

CITY OF DOVER

DOVER CONSERVATION COMMISSION – AGENDA

Meeting Type: Regular Meeting
Meeting Location: City Council Conference Room - 288 Central Avenue Dover NH
Meeting Date: Monday, January 13, 2025
Meeting Time: 5:30 pm

1. CALL TO ORDER AND ROLL CALL

2. CITIZEN’S FORUM

3. APPROVAL OF THE PRIOR MEETING MINUTES – December 9, 2024

4. OLD BUSINESS

5. NEW BUSINESS

A. *Previously endorsed on August 12, 2024* City of Dover Conditional Use Permits and NHDES Standard Dredge and Fill Wetlands Permit for Heath J. Todd Trustee, Heath J. Todd Revocable Trust, Assessor’s Map M, Lot 104, zoned R-40, located off of Back Road. Proposal is to create an access drive to the developable portion of the lot where a single home and accessory structures are to be built. The total proposed permanent impact is 8,938 square feet of wetlands with 166 square feet of temporary impacts to the wetland, and 28,193 square feet of 50-foot wetland buffer, including 468 square feet adjacent to a small isolated wetland (wetland will not be directly impacted). Additionally, there is a temporary impact proposed within the 100-foot Conservation district of *1,706 square feet, and 1,110 square feet of permanent impact with 73 square feet of temporary impact proposed to the Conservation District associated with a patio path, patio and access to a proposed tidal docking structure.

B. *Previously endorsed on August 12, 2024* NHDES Standard Dredge and Fill Wetlands Permit for Heath J. Todd Trustee, Heath J. Todd Revocable Trust, Assessor’s Map M, Lot 104, zoned R-40, located off of Back Road.

6. Proposal is to install a 200-foot-long tidal docking structure with a 400 square foot float area.
**Has not changed from August*

C. Conservation and Open Space Chapter Update

7. REPORT FROM THE CHAIR

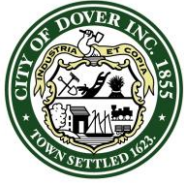
A. Review of Correspondence Received from NH Department of Environmental Services

8.

OTHER BUSINESS

A. Update from Forest Management Subcommittee

ADJOURNMENT



CITY OF DOVER

DOVER CONSERVATION COMMISSION – MINUTES

Meeting Type: Regular Meeting
Meeting Location: City Council Conference Room - 288 Central Avenue, Dover, NH
Meeting Date: Monday December 9, 2024
Meeting Time: 5:30 pm

MEMBERS PRESENT: Bill Hunt (Chair), Steve Fellows (Vice Chair), Kristen Murphy, Abigail Lyon, Russ Warnock (Alternate), Brianna Group

Absent (Excused): Robert Atwood (Secretary), Jake Geddes

Absent (Unexcused):

STAFF PRESENT: Makayla Edgecomb, Assistant City Planner and Erin Bassegio, City Planner

OTHERS PRESENT:

1. CALL TO ORDER AND ROLL CALL

The meeting was convened at 5:30 PM.

2. CITIZENS' FORUM

The Chair gave instructions for Citizens' forum (No one spoke)

3. APPROVAL OF THE PRIOR MEETING MINUTES- October 15, 2024

S. Fellows moved to approve the minutes of October 15 as submitted. K. Murphy seconded. Vote: All in favor with two abstentions.

4. OLD BUSINESS:

M. Edgecomb noted Dover did not receive the Forestry grant for a forestry position that J. Kaspari had been working on.

5. NEW BUSINESS:

- A. City of Dover Conditional Use Permit (CUP) for Martin & Carole Jaffe, (Owner: Michael & Shelby Brewer), Assessor's Map 32, Lot 36F, located at 77 Fourth Street. Proposal is for modifications to the existing single-family dwelling that includes the construction of a deck, garage, and breezeway and modifications to the driveway pavement resulting in 1,467 square feet of permanent impacts to the 50-foot wetland buffer and 756 square feet of temporary buffer impacts. There are no direct wetland impacts.**

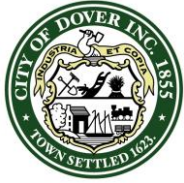
Kevin McEneaney represented the owners and explained the proposal is to add an ADU which involves adding a deck and a garage with a breezeway attached to the existing home. This would result in 1,467 square feet of permanent impacts to the 50-foot wetland buffer and 756 square feet of temporary buffer impacts. There are no direct wetland impacts.

He answered questions from the committee members relating to when the wetlands were delineated.

S. Fellows moved to endorse the CUP as presented. Seconded by: R. Warnock. Vote: 5 in favor with 1 opposed.

B. Conservation and Open Space Chapter Update

M. Edgecomb noted the open space chapter update is going to Planning Board tomorrow night, and there will be a presentation on January 14th at the All Boards event.



CITY OF DOVER

DOVER CONSERVATION COMMISSION – MINUTES

Meeting Type: Regular Meeting
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C. Request for expenditures from the Conservation Fund for: Open Lands Committee – Conservation Easement Appraisal – not to exceed \$10,000

Anna Boudreau, Chair of the Open Lands Committee presented the item. The piece of land in question is one the City has been looking into for many years. The Open Lands Committee voted to approve this request to the Conservation Committee. The cost will be split with Southeast Land Trust. She described attributes of the property in question.

A. Lyon moved to endorse the expenditure from the Conservation Fund for a conservation easement appraisal not to exceed \$10,000. Seconded by: B. Group. Vote: All in favor.

The timeline was discussed.

D. Request for expenditures from the Conservation Fund for: Purchase of a Parcel for \$25,000.

M. Edgecomb explained the request and described the surrounding lands. One of the committee members gave additional information. The potential for public access was discussed. Additional discussion continued about various details about the parcel and the abutting parcels.

S. Fellows moved to endorse the expenditure from the Conservation Fund for the proposed purchase of a parcel for \$25,000. Seconded by: A. Lyon. Vote: All in favor

Discussion ensued about whether Dover has established a community forest and funding location for harvesting expenses.

6. REPORT FROM THE CHAIR

A. Review of Correspondence Received from NH Department of Environmental Services

M. Edgecomb noted the correspondence received is one letter from NHDES, an approved standard dredge and fill wetlands permit application for 393 Dover Point Rd, Tax map 7, Lot 20-2 for an impact total of 1,322 square feet of tidal resources to include 1,237 square feet of tidal waters and 85 square feet of previously developed 100 foot tidal resources to include a new access ramp, a piling supported pier, a gangway, and a float with an overall structure length seaward of the highest observable tide line of 20 ft along 150 linear feet of frontage on the Piscataqua River.

7. OTHER BUSINESS

A. Update from Forest Management Subcommittee

No meeting last month.

Staff is looking for a volunteer for the Land Use Chapter of the Master Plan update. Timeline is January-September.

8. ADJOURNMENT

S. Fellows moved to adjourn. R. Warnock seconded. Vote: U/A

The meeting was adjourned at 6:12 PM.

**70 Portsmouth Avenue
3rd Floor, Suite 2
Stratham, N.H. 03885
603 – 583 - 4860
Fax: 583 - 4863**

January 2, 2025

Erin Bassegio, City Planner
City of Dover Planning Department
10 Front Street
Exeter, NH 03833

RE: Planning Board / Conditional Use Permit Re-Submittal
Heath Todd - Back Road Residential Project
Tax Map M Lot 104

Ms. Bassegio and Members of the Board:

The applicant, Heath Todd, is proposing a single-family residential development on Back Road in Dover which requires a Conditional Use Permit from the City of Dover. We were before the Conservation Commission on August 12, 2024 where we received unanimous favorable endorsement. We were also before the Planning Board on August 27, 2024 to discuss the project. The Planning Board requested that we go before the Technical Review Committee (TRC) to work through concerns of constructability and further detail the plans. We revised the plans and were before the Technical Review Committee on December 5, 2024 where we received support to bring the project before the Planning Board.

Since the August Planning Board meeting the following plan changes have been incorporated:

1. Further site development items including:
 - a. Drainage Analysis
 - b. Additional Construction Details
 - c. Effluent Disposal Plan for septic system
 - d. Utility Plan
 - e. Fire truck maneuvering plans
 - f. Driveway cross-sections
2. Revised scale of wetland and wetland buffer impact plans for readability
3. Addressing NHDES AoT preliminary comments on drainage design along driveway

Since the TRC meeting the following plan changes have been incorporated:

1. NH Fish & Game comments addressed
2. NHDES Wetland's Bureau comments addressed, including adding an additional culvert added at wetland crossing #4 (STA 14+80 +/-)
3. At wetland crossing #8, culvert #9 was extended and includes rip rap slopes to avoid steep walls and an unsafe condition
4. Revised shoreland calculations to reflect a slightly larger tennis court layout and associated changes to the walking paths as well as revisions to the patio off of the house. These changes will require a revision to the Shoreland Permit. These changes

also required a change from infiltration trenches to a new Infiltration Pond #1 to accommodate the changes.

One item that came out of the TRC meeting was to confirm the driveway with Community Services. Through communications with the Community Services Director John Storer, it has been found that a driveway permit has already been approved for this property and no additional relief for the driveway is required. Copies of the correspondence are included as part of this submission and the applicant agrees to the requirement to provide an as-built of the driveway following construction.

Please refer to the revised Conditional Use Permit narrative for detailed information on the wetland and wetland buffer impacts. This narrative points out that the overall impact to City of Dover wetland buffers has decreased since the Conservation Commission's review of the project.

We have received Shoreland Impact Permit approval (#2024-02318) and have responded to the Wetlands Bureau's comments (copy of submittal provided to City, #2024-02319). We have also submitted to NHDES for an AoT permit and are awaiting review comments.

We look forward to presenting the updated project to you at an upcoming Planning Board meeting.

Thank you for your consideration.

Very truly yours,
BEALS ASSOCIATES, PLLC

John P Lorden

John P. Lorden, PE
Principal

[Revised information in this document has been highlighted and revised impact numbers have been asterisked (*).]

The purpose of this application is to request access through the Wetland Protection District (WPD) and 50-foot wetland buffers, as well as the Conservation District (CD), including 50 feet from streams, to reach the developable upland portion of a 26-acre lot, where one single-family residence and accessory structures are proposed to be built. The total proposed permanent impact to WPD areas is *8,938 square feet (SF), all of which is within forested and/or scrub-shrub wetland systems, and the total permanent impact to 50-foot wetland buffers is *28,193 SF, including *468 SF adjacent to a small isolated wetland near the buildable area (the wetland will not be impacted). Additionally, *1,706 SF of temporary impact is proposed within the 100-foot tidal buffer zone; this increase is a result of a request from the NHDES Wetlands Bureau to provide additional construction zone access, and will be restored in accordance with a note on the enclosed Tidal Buffer Impact Plan (Sheet 17). [Per 170-27.1 G (1) (a), there will be at least 3,700 SF less 50-foot wetland buffer impact area once a NHDES Wetlands Bureau permit is issued, due to Wetland 4 being proposed to be filled in its entirety.]

Wetland Protection District

(a) Practicable Alternative:

There is only one access approach available from Back Road to reach the broader parcel of land that contains the buildable upland area of the lot, as a result there are no alternative approaches with less impact to WPD or CD areas.

(b) & (c) Avoidance & Minimization:

The driveway access from Back Road to the broader parcel is limited to within a 20-foot-wide strip of land that is owned by the applicant, over a length of approximately 2,250 linear feet (LF). The proposed driveway will need to cross six previously-disturbed WPD areas and their buffers, including one CD area (50 feet either side of a Tier 1 intermittent stream) in order to reach the broader parcel. Once the driveway reaches the broader parcel, there are two additional crossings of WPD areas and their buffers, and one CD crossing necessary in order to access the buildable area, over an additional length of approximately 1,190 LF. All except for the first 100 LF from Back Road and the last 40 LF is proposed to be gravel, the remainder will be paved. These WPD/buffers and CD crossings include a pit-and-mound wetland and 50 feet either side of a Tier 1 perennial stream, and have been designed to avoid and minimize impacts upon the resource areas to the greatest extent practicable. The route layout chosen for the pit-and-mound WPD/buffers crossing reduces wetland impact as much as possible while avoiding close proximity to a natural drainage swale to the east, which carries surface water runoff to tidal shoreland areas within approximately 300 feet. This layout also maintains a practical driveway curve that will minimize safety risks, especially in low visibility conditions.

At Wetland Crossing 8, the perennial stream crossing just before entry to the building lot area, it was determined that the culvert design previously shown had shear face headwalls large/high enough to present a long-term safety issue. At this location, near the house and yard and near a curve in the road, the high vertical walls and narrow roadway are not a safe approach for vehicles or people. As a result, an adjustment has been made to the 16-foot-wide driveway surface, with 1:1 sloped riprap embankments to tie in grades. This modification increases the culvert length to 43 LF, along with associated SF embankment modifications. Through the use of riprap slopes at 1:1 instead of vertical headwalls, we are minimizing impact while providing the safest and most practical long-term solution to this crossing. NH Fish & Game has approved this revision and in discussions with the NHDES Wetlands Bureau they expressed no concerns with the revision (currently pending final review). The wetland/stream/wetland buffer impact areas for each crossing are shown on the four enclosed Wetland Impact Plans (Sheets 13-16).

The project engineers have designed the wetland/stream crossings with culverts strategically installed to manage north-to-south stormwater flow so there will be no increase of flooding, ponding or other negative impact on abutting properties upgradient or downgradient. Each culvert was positioned based on existing topography, targeting low points along the driveway to prevent ponding and ensure uninterrupted drainage flow towards the south. Their sizing and design were calculated to maintain natural water flows and velocities, preserving the pre-development

conditions of the surrounding undeveloped land. To minimize impact on wetlands, wetland buffers, and neighboring properties, retaining walls were employed. The design approach of the culverts was primarily driven by the need to facilitate the crossings over the intermittent and perennial streams. Culverts were intentionally oversized to handle stormwater more effectively and were lined with stone at the base to reduce water velocity. These design principles were consistently applied across all culverts, ensuring that both pre-development and post-development flow conditions will be effectively managed, even during severe weather events such as the 100-year storm.

Throughout the duration of construction, drainage treatment and erosion control measures will be maintained (see enclosed Erosion Control Details and Construction Details plan sheets). The initial phase involves constructing a driveway into the project site, necessitating the removal of existing vegetation and organic material from the designated area. These cuts in relatively flat terrain are expected to minimize runoff and will swiftly be stabilized with compacted gravel. At points where culverts are planned across the wetlands, intermittent stream, and perennial stream, existing material will be excavated and replaced with a stable gravel base beneath the culverts. Once in place, these culverts will be filled with at least 6 inches of rounded stone, followed by immediate stabilization of the surrounding area. Beyond the driveway, the project area slopes towards the Piscataqua River to the east and south, away from the wetlands to the west. Erosion control measures will be strategically placed at the limits of disturbance downslope from construction activities. Additionally, a vegetative buffer zone of at least 50 feet of woods between disturbed project areas and the river will serve as an additional protective barrier, ensuring no sediment from the project reaches the river. Any disturbed areas will be promptly stabilized using vegetation or other stabilized materials. Regular inspection and maintenance will uphold the effectiveness of erosion control measures throughout the project's duration, as outlined in the Stormwater Pollution Prevention Plan. Any damaged measures will be promptly repaired or replaced to prevent sedimentation and maintain compliance with environmental regulations.

(d) *Mitigation:*

As reflected in our December 24, 2024 Request for More Information (RFMI) submittal to the NHDES Wetlands Bureau, it has been determined that compensatory mitigation is required by State rules and a complete mitigation proposal has been provided as part of the RFMI. It has been included with this document (see below).

(e) *NHDES Wetlands Bureau:*

A Standard Dredge and Fill Wetlands Permit Application was submitted to the NHDES Wetlands Bureau. Their initial review was completed and a Request for More Information (RFMI) was received. Responses to the RFMI were provided on December 24, 2024 and are pending review (copies have been submitted to the Dover City Clerk).

(f) *Wetland Functions and Values:*

A wetlands' function and value assessment was completed for wetlands on the project site using the USACE Highway Methodology by Michael L. Parsont, CWS. Multiple site visits were done between February and June 2024 to gather data for this purpose. Wetland 1 is an ephemeral drainageway that will be crossed twice; it has surface water runoff piped from an upgradient parcel. It is shown on the 2020 Wildlife Action Plan as "highest ranked habitat in NH" and the Natural Heritage Bureau reported NE Cottontail observations/habitat to the south of the project area; as a result, it was designated as a principal function/value. However, the driveway crossing location is highly disturbed with significant dominance of invasive species and had no signs of wildlife use or habitat present for the NE Cottontail. Wetland 2 contains an intermittent stream within a forested area and has no assessed principal functions or values. Wetland 3 crossing is in a forested area with no concentrated flow and has no assessed principal functions or values. Wetland 4 is a 1,714 SF isolated disturbed wetland entirely within the 20-foot-wide corridor that was forested/scrub-shrub prior to disturbance and has no assessed principal functions or values.

Wetland 5 crossing is in a forested area, has two associated impacts and has no assessed principal functions or values. Wetland 6 was forested/scrub-shrub prior to disturbance, though it is entirely within a maintained transmission line utility easement and the vegetation has been cleared. It has no assessed principal functions or values. Wetland 7 is a forested pit-and-mound wetland that has flood storage potential designated as a principal function/value. The proposed crossing should not have significant impact on this function; it includes an equalizing culvert to allow any

water that accumulates to pond or move in accordance with what existing conditions allow. Wetland 8 contains a perennial stream within a forested system and has no assessed principal functions or values. Wetland 9 is a 429 SF isolated wetland within the protected shoreland zone that has no vegetation, is surrounded by woods, and has no assessed principal functions/values.

Conservation District

There are minimal additional impacts proposed within the Conservation District, within 100 feet of the reference line for the Piscataqua River. The single-family residence and accessory structures are designed to be built within the protected shoreland between 100 and 250 feet of the reference line/highest observable tide line, outside the CD. The project proposes 1,110 SF of permanent and *1,706 SF of temporary impact within the CD to construct a patio accessory structure, a path to access the patio, and a path to access a tidal docking structure (a separate application is being submitted for the tidal dock structure by another consultant). These impacts have been minimized to the greatest extent practicable, with the patio set back greater than 20 feet from the reference line and each affected waterfront buffer grid segment meets the minimum required tree point score. The patio is being built using pervious pavers and the paths within the TBZ will be constructed using crushed stone to keep them pervious. The access way from the path to the docking structure covers 131 SF and is impervious. Temporary impacts are to facilitate construction of the patio and will be restored. No fertilizers or chemicals will be used in this area. All applicable state and federal approvals have been applied for.

RFMI Item #1 – Compensatory Mitigation Proposal

Compensatory mitigation requirements shall be satisfied by an in-lieu fee payment to the Aquatic Resource Compensatory Mitigation Fund (ARM Fund). The in-lieu fee payment amount has been calculated in accordance with Env-Wt 803.07, utilizing the ARM Fund In-Lieu Fee Payment Calculator and submitted electronically on December 23, 2024. This includes impacts to wetlands, streams and tidal buffer zone areas, with the impacts breakdown and associated fees listed below.

- Forested Wetlands: 8,287 SF; estimated payment \$65,003.90
- Tidal Wetlands (TBZ): 1,110 SF; estimated payment \$17,413.86
- Other Jurisdictional Areas (Scrub-shrub Wetlands): 651 SF; estimated payment \$5,106.50
- Streams: 152 LF; estimated payment \$67,789.34
- Total Estimated Payment: \$155,313.60

The enclosed plan set includes the size and classification type of the proposed project impact areas, see sheets titled Wetland Impact Plans and Shoreland Impact Plan. A Wetland Functional Assessment of the impacted jurisdictional areas was included with the permit application materials. Stream crossing information was also provided for the two stream impact locations. The Dover Conservation Commission did not provide compensatory mitigation recommendations. No impacts are proposed within a designated river corridor.

Impacts associated with a proposed pier and dock structure at the same location were addressed via a separate application process (NHDES File Number 2024-02301). A separate mitigation proposal was submitted for those impacts.

John Lorden

From: Bassegio, Erin <E.Bassegio@dover.nh.gov>
Sent: Thursday, December 12, 2024 9:49 AM
To: John Lorden
Cc: Heath Todd
Subject: RE: Back Road - Approved - Driveway Permit

Hi John,

Yes, that will suffice- please include the email as a pdf in your re-submission. Thank you!

Erin Bassegio

City Planner

City of Dover, New Hampshire
288 Central Avenue
Dover, NH 03820-4169
e: e.bassegio@dover.nh.gov
p: 603.516.6008

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From: John Lorden <jlorden@bealsassociates.com>
Sent: Thursday, December 12, 2024 8:47 AM
To: Bassegio, Erin <E.Bassegio@dover.nh.gov>
Cc: Heath Todd <heath@apex-constructioninc.com>
Subject: Back Road - Approved - Driveway Permit

Security Notice: External sender. Use caution with hyperlinks or attachments.

Good morning Erin,

Can you please review the email below and confirm if this email chain submitted as a PDF as part of the re-submission will suffice for the City's purposes, or should we request a more formal letter from John Stover?

The applicant agrees to the as-built of the driveway as requested below.

Thank you,
John



John Lorden, PE
Senior Project Manager

70 Portsmouth Ave. 3rd Floor
Stratham, NH 03885
603-583-4860
jlorden@bealsassociates.com

Begin forwarded message:

From: "Storer, John" <J.Storer@dover.nh.gov>
Date: December 10, 2024 at 5:39:03 PM EST
To: Heath Todd <heath@apex-constructioninc.com>
Cc: "Chambers, Jordan" <J.Chambers@dover.nh.gov>, "Mavrogeorge, Kenneth" <K.Mavrogeorge@dover.nh.gov>
Subject: RE: Approved - Driveway Permit

Heath,

After further internal review, based on the narrow size of your lot, and also considering that a Driveway Permit was previously approved by Community Services, I am comfortable granting relief from the setback requirements outlined in City Ordinance 157-50.C(3).

Please let me know if this email will be sufficient. Please note that I am copying our City Engineer, Ken Mavrogeorge, so he is aware.

In granting the relief, our request would that you provide us with a final As-Built of the constructed configuration and layout. We recognize that any environmental or wetlands impacts will fall under the purview of NH DES and either their wetlands or AOT permits.

Please let me know if you have any follow-up questions.

John Storer
Director of Community Services
City of Dover, NH
271 Mast Rd.
Dover, NH 03820-4169
e: j.storer@dover.nh.gov
p: 603.516.6450 f: 603.516.6463

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<http://www.dover.nh.gov>

From: Heath Todd <heath@apex-constructioninc.com>
Sent: Tuesday, December 10, 2024 1:05 PM
To: Storer, John <J.Storer@dover.nh.gov>
Cc: Chambers, Jordan <J.Chambers@dover.nh.gov>
Subject: Re: Approved - Driveway Permit

Security Notice: External sender. Use caution with hyperlinks or attachments.

Hi John,

Sorry to bother you, but I am a bit under time crunch to get this in and be ready for planning board. Do you have thoughts on below?

Should I send you a letter to request relief from the 5-foot driveway setback?

Feel free to call and discuss. 603-591-4976 is my cell, but you can call office number (below) also.

Thanks!

Heath J. Todd, P.E.
Apex Construction, Inc.
361 RT 108, Unit 1
Somersworth, NH 03878
P: (603)330-3600
heath@apex-constructioninc.com

From: Heath Todd <heath@apex-constructioninc.com>
Date: Friday, December 6, 2024 at 9:39 AM
To: "Storer, John" <J.Storer@doover.nh.gov>
Cc: "Chambers, Jordan" <J.Chambers@doover.nh.gov>
Subject: Re: Approved - Driveway Permit

Hi John,

Thanks for taking the time to speak with me and look into this issue!

To clarify, TRC minutes (attached) contain the following plan review comments/ recommendations:

1. Request relief from the 5-foot side boundary driveway setback, required by § 157-50C(3), or provide a detailed narrative describing any hardships for review and potential acceptance by the Community Services Director.
1. Has a lot line adjustment been considered to meet setbacks?
 1. Provide something in writing that abutting property owner does/doesn't have interest in LLA.

As discussed, regarding the LLA reference, it seems unfair to put the abutter in a position of leverage given the proximity of the driveway to the boundary is a result of design elements needed to meet City regs. My thought is that Planning likely would approve current layout if 5-foot side relief is granted by Community Services and they would not demand written statement from abutters regarding interest in LLA. I do not want to request LLA from abutters, presenting opportunity for extortion, and I wonder if Planning is justified in this request. Perhaps through presentation of existing driveway permit document and your acceptance of relief from the setback by you, it gives Planning opportunity to approve?

Thoughts?

Thanks.

Heath J. Todd, P.E.
Apex Construction, Inc.

361 RT 108, Unit 1
Somersworth, NH 03878
P: (603)330-3600
heath@apex-constructioninc.com

From: "Storer, John" <J.Storer@dover.nh.gov>
Date: Friday, December 6, 2024 at 9:18 AM
To: Heath Todd <heath@apex-constructioninc.com>
Cc: "Chambers, Jordan" <J.Chambers@dover.nh.gov>
Subject: Approved - Driveway Permit

Heath,

Following up on our telephone discussion – I don't think you need to do anything? At least not to appease Community Services.

Attached is the previously approved Driveway Permit. If you intend to continue using what is out there we don't need you to re-apply for a new permit. Copied here is Jordan Chambers, our Eng Tech, and he confirmed the permit should remain valid.

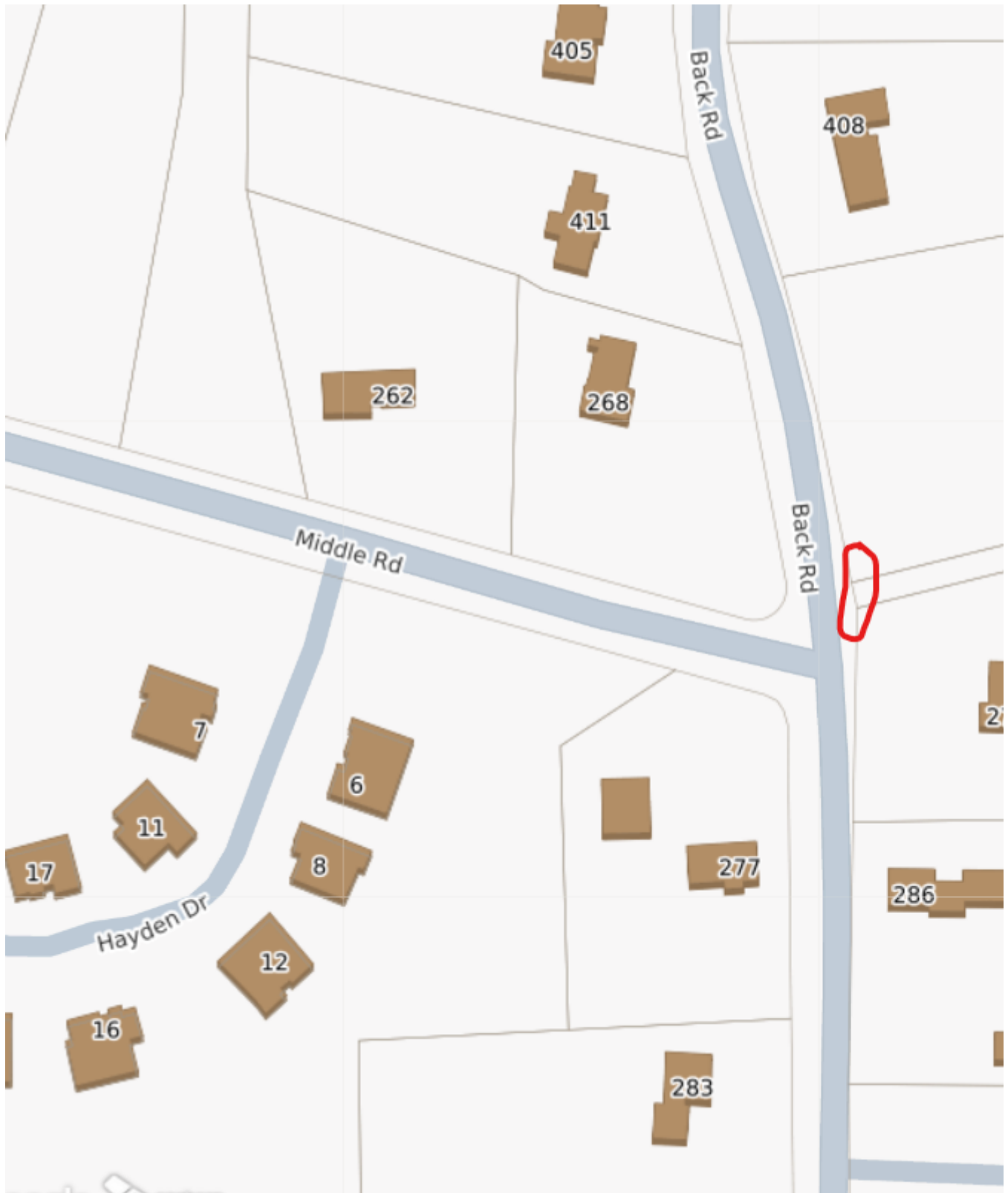
As I tried to explain – Community Services focus on permitting driveways really just hinges on impacts to public rights-of-way. Our regulatory foundation is via City Ordinances, Chapter 125. Below is an excerpt. I underlined the portion about "onto a public road" – and per the sketch attached below – circled in red is really the only area of concern we (Community Services) would monitor and enforce. However – Planning or Inspection Services might have some discretion with Chapter 157 regs for the "private" land away from the public ROW.

So unless I'm missing something, I think you are OK?

☐ **§ 125-11 Permit for driveways.**

[Amended 12-12-2018 by Ord. No. 2018.11.28-012]

All applications for a permit to repair, widen, reconstruct, or construct a driveway from a re:
public road shall comply with the relevant provisions of Chapter **157**, Land Subdivision F
Dover.



John Storer
Director of Community Services
City of Dover, NH
271 Mast Rd.
Dover, NH 03820-4169
e: j.storer@dover.nh.gov
p: 603.516.6450 f: 603.516.6463

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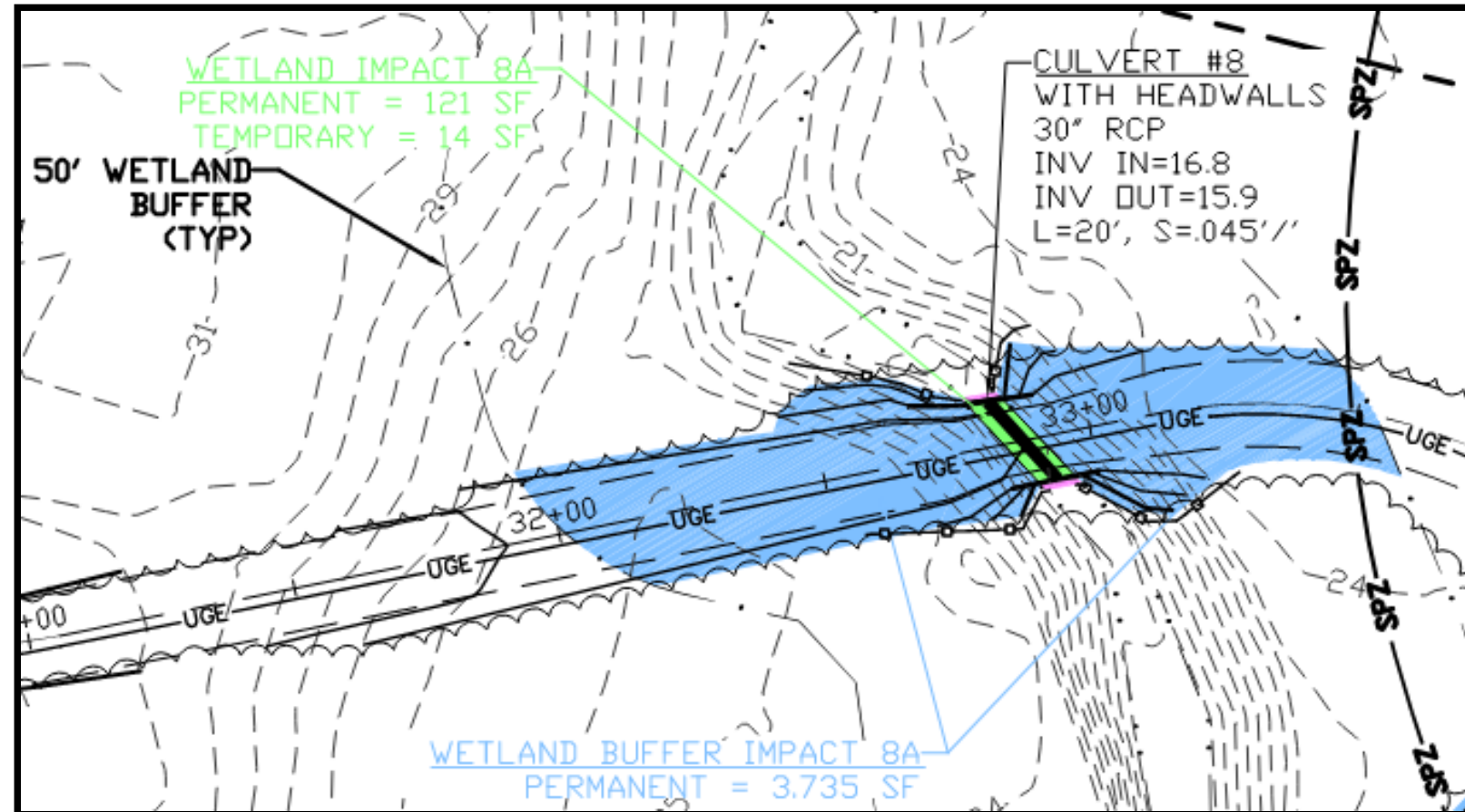
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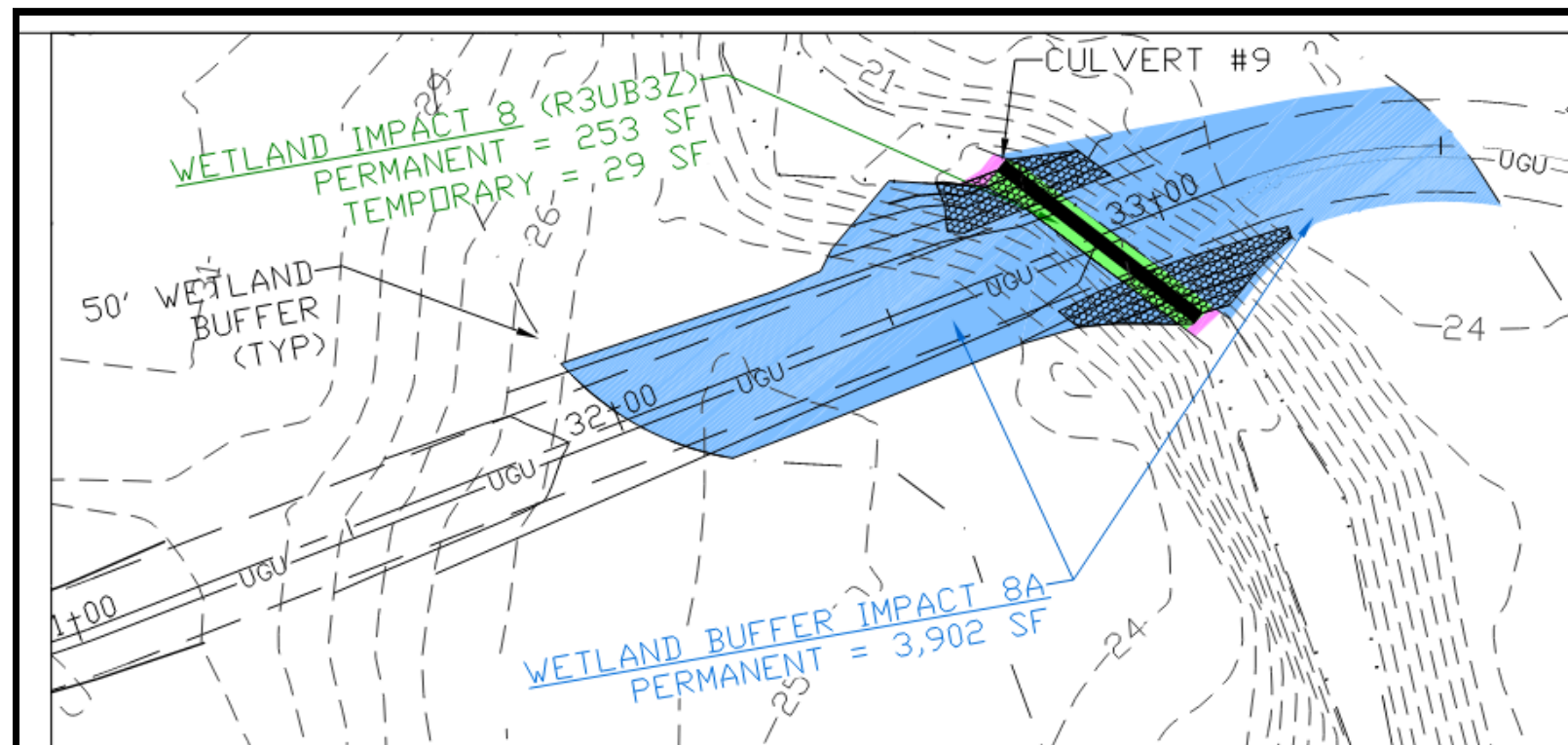
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August 2, 2024



December 27, 2024

PREPARED FOR:

HEATH J. TODD REVOCABLE TRUST
HEATH J. TODD, TRUSTEE
402 WEBBER HILL ROAD
KENNEBUNK, ME 04043

BA
BEALS
ASSOCIATES, PLLC

70 PORTSMOUTH AVE,
THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
FAX: 603-583-4863

LEGEND

- PERMANENT WETLAND IMPACT
- TEMPORARY WETLAND IMPACT
- PERMANENT WETLAND BUFFER IMPACT

WETLAND AREA 8 IMPACT CHANGES

PLAN FOR:
BACK ROAD
DOVER, NH

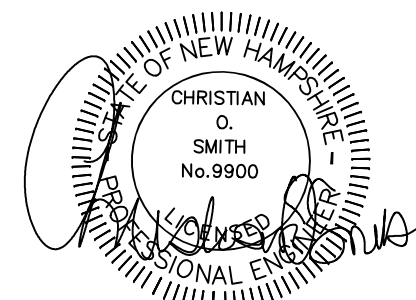
January 3, 2025

RESIDENTIAL SITE PLAN
BACK ROAD
DOVER, NEW HAMPSHIRE
TAX MAP M, LOT 104
AUGUST 2, 2024

NOT FOR CONSTRUCTION

CIVIL ENGINEERS:

BA
BEALS
ASSOCIATES, PLLC
70 PORTSMOUTH AVE,
THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
FAX: 603-583-4863



LAND SURVEYORS:

BERRY SURVEYING & ENGINEERING
335 SECOND CROWN POINT ROAD
BARRINGTON, NH 03825
1-603-332-2863

WETLAND CONSULTANTS:

MICHAEL L. PARSONT, CWS, CPESC
STABLE GROWTH ENVIRONMENTAL LLC
PO Box 713
SOMERSWORTH, NH 03878
1-603-767-8633

TFMORAN, INC.
170 COMMERCE WAY, SUITE 102
PORTSMOUTH, NH 03801
1-603-431-2222

SOIL CONSULTANT:

JOHN P. HAYES CSS, CWS
7 LIMESTONE WAY
NORTH HAMPTON, NH 03862
1-603-205-4396

RECORD OWNER/APPLICANT
HEATH J. TODD REVOCABLE TRUST
HEATH J. TODD, TRUSTEE
402 WEBBER HILL ROAD
KENNEBUNK, ME 04043

PLAN SET LEGEND

FRESHWATER WETLAND BOUNDARY	---	UTILITY POLE	⊕
FRESHWATER WETLAND/STREAM BUFFER	---	SEWER MANHOLE	⊗
PROPERTY LINE	---	EXISTING LIGHT POLE	⊙
HOTL / REFERENCE LINE	---	EXISTING CATCH BASIN	⊠
FLOOD HAZARD ZONE	---	WATER GATE	⊞
50' NHDES PRIMARY STRUCTURE SETBACK	---	WATER SHUT OFF	⊞
100' NHDES TIDAL BUFFER ZONE	---	HYDRANT	⊞
150' NHDES NATURAL WOODLAND BUFFER SETBACK	---	OVERHEAD ELEC. LINE	---
250' NHDES PROTECTED SHORELAND ZONE	---	FENCING	---
NATURAL WOODLAND AREA REQUIREMENT	---	DRAINAGE LINE	---
	---	SEWER LINE	---
	---	GAS LINE	---
	---	WATER LINE	---
	---	STONE WALL	---
	---	TREE LINE	---
	---	PINES, ETC.	---
	---	MAPLES, ETC.	---
	---	EXIST. CONTOUR	---
	---	PROP. CONTOUR	---
	---	SOIL LINES	---
	---	EXIST. SPOT GRADE	---
	---	PROP. SPOT GRADE	---
	---	DOUBLE POST SIGN	---
	---	SINGLE POST SIGN	---

TITLE SHEET

- 0 NH FISH & GAME PLAN
- 1-3 EXISTING CONDITIONS PLAN
- 4 INDEX PLAN
- 5-8 PLAN & PROFILES
- 9 SHORELAND IMPACT PLAN
- 10 GRADING, DRAINAGE, & EROSION CONTROL PLAN
- 11 UTILITY PLAN
- 12 WETLAND & STREAM BANK RESTORATION PLAN
- 13-16 WETLAND IMPACT PLANS
- 17 TIDAL BUFFER IMPACT PLAN
- 18-19 PHOTO LOG PLANS
- 20 VEGETATION MANAGEMENT PLAN
- 21 EFFLUENT DISPOSAL PLAN
- 22 LADDER TRUCK MANEUVERING PLAN
- 23 DRIVEWAY SECTIONS
- 24 EROSION CONTROL NOTES & DETAILS
- 25-26 CONSTRUCTION DETAILS

REQUIRED STATE AND FEDERAL PERMITS

NHDES ALTERATION OF TERRAIN PERMIT	PENDING SUBMITTAL
NHDES INDIVIDUAL SEWAGE DISPOSAL SYSTEM PERMIT	PENDING SUBMITTAL
NHDES SHORELAND IMPACT PERMIT	2024-02318
NHDES WETLANDS BUREAU DREDGE AND FILL	2024-02319
CONSTRUCTION GENERAL PERMIT	PENDING SUBMITTAL

	REVISIONS:	DATE:
1	REVISED PER REVIEW COMMENTS	11.12.24
2	REVISED PER REVIEW COMMENTS	12.23.24
3	REVISED FOR AOT SUBMITTAL	12.27.24
4		
5		

NH-1501 PROPOSED SITE PLAN

NHB23–3169 New Hampshire Fish and Game Recommended Permit Conditions:

- Blanding's Turtle (State Endangered), New England Cottontail (State Endangered), Shortnose Sturgeon (State Endangered), and Spotted Turtle (State Threatened) occur within the vicinity of the project area. Recommendations for Shortnose Sturgeon were issued by NHFG for NHB24–0953 on May 14, 2024. 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 this sheet.
- 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 the construction phase of the project. See this sheet.
- NHFG recommends driveway construction occur between October 15th and April 15th to avoid impacting turtles during the active season. If project activities cannot be completed between October 15th and April 15th and must occur between April 16th and October 14th, searches and sweeps shall be conducted by trained individuals immediately before the start of work and movement of equipment in order to minimize the chance of animals entering an area between the sweep and work. A trained individual shall be defined as any contractor who has gone through project–species protection education conducted by the qualified biologist on rare wildlife species at the site. Sweeps (e.g. visual observations made while walking transects) shall consist of trained individuals moving through the area and surrounding vicinity that will be impacted by the current activities and actively looking for turtles (and other wildlife) that may be impacted by project activities.
- All culverts shall be oversized, partially buried RCP culverts.
- Staging of construction equipment/material and vehicle parking shall not occur in shrub cover and shrub cover shall not be removed.
- Fertilizer shall not be applied in or near the wetlands along the driveway. Fertilizer applied in all other areas shall be slow–release or controlled–release.
- Turtles may be attracted to disturbed ground during the nesting season (May 15th –June 30th). Turtle nests are protected by NH laws. If a nest is observed or suspected, operators shall contact Josh Megyesy at NHFG immediately for further consultation. See Species Flyers, See this sheet for NHFG contact information.
 - 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.
- 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 $\frac{3}{8}$ inches. See Erosion Control Notes & Details sheet.
- 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.
 - 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.
- 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.
 - 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.
- NHFG, including its employees and authorized agents, shall have access to the property during the term of the permit.



PLEASE REPORT OBSERVATIONS OF
RARE TURTLES

The NH Fish & Game Department is requesting
observations of the following turtle species



Turtles may be attracted to disturbed ground during nesting season (May 15th – June 30th)

Turtles are most active from April 15th - October 15th - maintain silt fences during this time



Blanding's turtle
(State Endangered)

Large, dark/black domed shell
with lighter speckles.

Distinct yellow throat/chin.

Aquatic but often moves on land.



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.

Fis 1401.03 (a) No person shall take or possess a spotted turtle
(*Clemmys guttata*)...Blanding's turtle (*Emydoidea blandingii*)...or
any egg or part thereof.

Report sightings immediately to NHFG Wildlife Division at 603-271-2461 (M-F 8-4) or
to NHFG Wildlife Biologist Josh Megyesy 603-271-1125 or 978-578-0802 (cell)
anytime.

Please report promptly, noting specific location and date -- Photographs strongly encouraged

PREPARED FOR:

HEATH J. TODD REVOCABLE TRUST
HEATH J. TODD, TRUSTEE
402 WEBBER HILL ROAD
KENNEBUNK, ME 04043



70 PORTSMOUTH AVE,
THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603–583–4860,
FAX. 603–583–4863

GRAPHIC SCALE



(IN FEET)
1 inch = 120 ft.

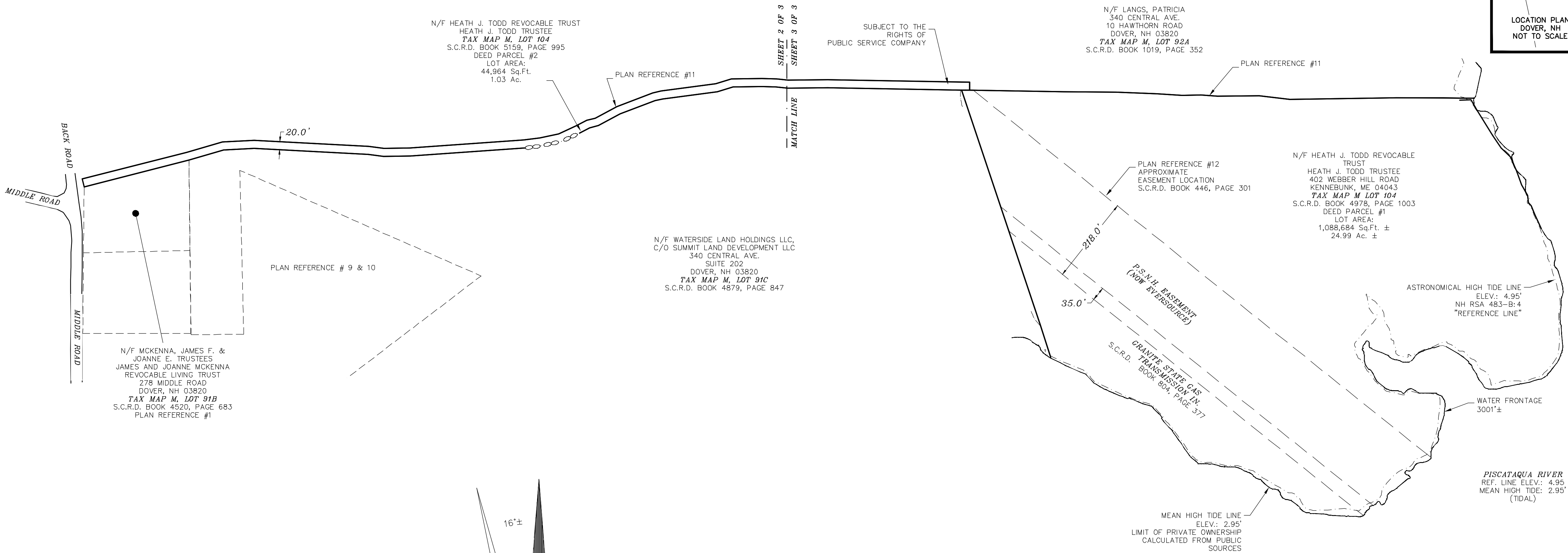
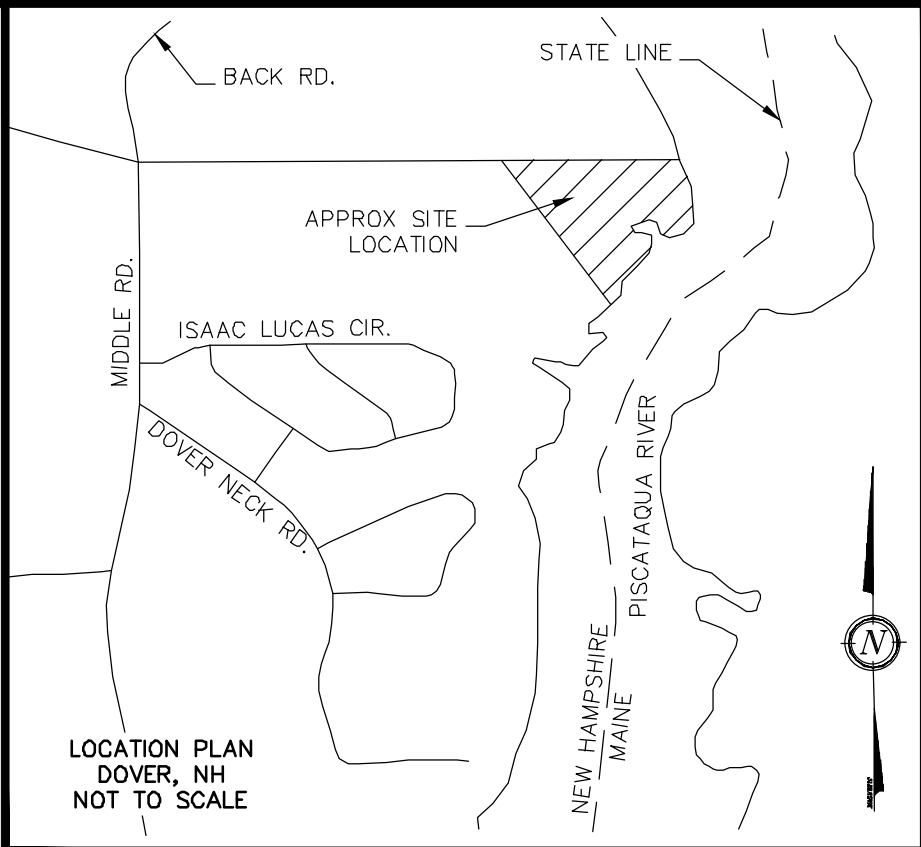
REVISIONS:

DATE:

NH FISH & GAME PLAN

PLAN FOR:
BACK ROAD
DOVER, NH

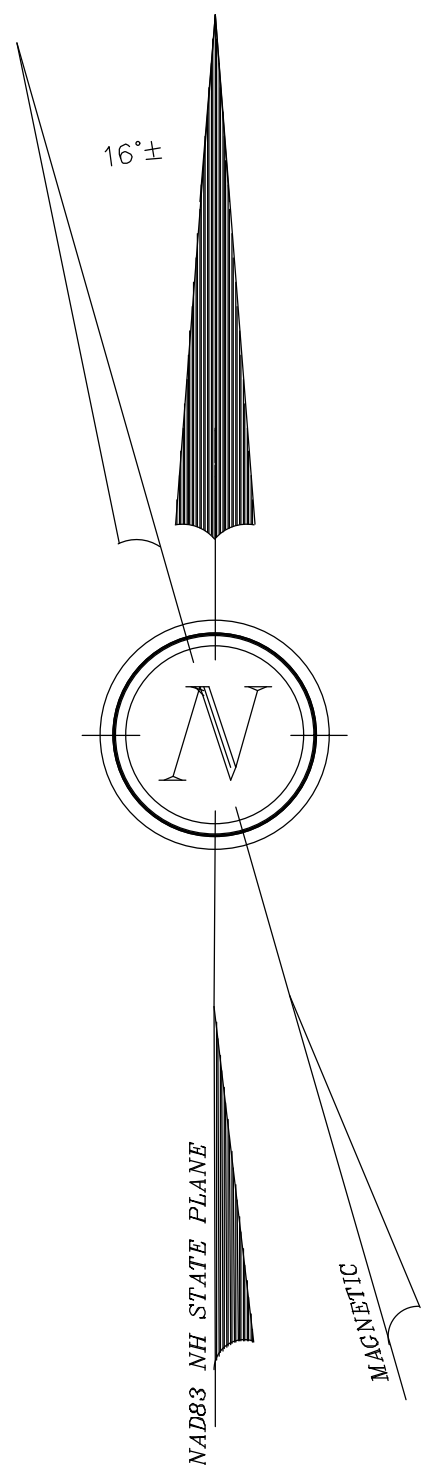
DATE:	DEC 23, 2024	SCALE:	NTS
PROJ. NO:	NH-1501	SHEET NO.	0



PLAN REFERENCES (cont.):

PLAN REFERENCES:

- "SUBDIVISION PLAN FOR MARK PHILIPS & PETER RUSSELL DOVER, NEW HAMPSHIRE"
BY: FRANK EMERY
DATED: MAY 22, 1973
S.C.R.D. POCKET #12, FOLDER #2, PLAN #36
- "SUBDIVISION OF LAND FOR EDMUND J. O'BRIEN JR. IN DOVER, N.H."
BY: BRUCE L. POHOPEK
DATED: MAY 9, 1981
S.C.R.D. PLAN #21A-87
- "SUBDIVISION OF LAND CULLEN BAY DEVELOPMENT IN DOVER, N.H."
BY: BRUCE L. POHOPEK
DATED: MAY 4, 1984
S.C.R.D. PLAN #24A-59
- "SUBDIVISION OF LAND FOR ARTHUR AND LINDA THOMITS IN DOVER, N.H."
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DATED: JULY 30, 1986
S.C.R.D. PLAN #26-78
- "FINAL PLAN BRICKYARD ESTATES MIDDLE ROAD DOVER, N.H."
BY: G.L. DAVIS & ASSOCIATES
DATED: OCTOBER 1, 1985
S.C.R.D. PLAN #29-35
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RECORDED: OCTOBER 13, 1983
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BY: K.E. MOORE & B.G. STAPLES
DATED: MAY, 1989
S.C.R.D. PLAN #38-48
- "LOT LINE REVISION ISAAC LUCAS CIRCLE DOVER, N.H. FOR CITADEL BROADCASTING COMPANIES AND NELSON MILES COOK, III"
BY: NORWAY PLAINS ASSOCIATES, INC.
DATED: MARCH 13, 2002
S.C.R.D. PLAN #66-70
- "MINOR SUBDIVISION OF LAND PREPARED FOR TOWNSQUARE MEDIA PORTSMOUTH LLC TAX MAP M, LOT 91A 292 MIDDLE ROAD CITY OF DOVER COUNTY OF STRAFFORD STATE OF NEW HAMPSHIRE"
BY: MCENEANEY SURVEY ASSOCIATES OF NEW ENGLAND
DATED: JANUARY 22, 2021
S.C.R.D. 12348
- "MINOR SUBDIVISION OF LAND PREPARED FOR TOWNSQUARE MEDIA PORTSMOUTH LLC TAX MAP M, LOT 91A 292 MIDDLE ROAD CITY OF DOVER COUNTY OF STRAFFORD STATE OF NEW HAMPSHIRE"
BY: MCENEANEY SURVEY ASSOCIATES OF NEW ENGLAND
DATED: JANUARY 22, 2021
S.C.R.D. PLAN #12349
- "PLAN OF LAND OF GEORGE & DOROTHY PRESCOTT DOVER, N.H. SHOWING PARCEL SOLD TO ALAN R. & PATRICIA WILSON"
BY: RICHARD P. TOWLE
DATED AUGUST 1972
- "EASEMENT WORKSHEET"
BY: DOUCET SURVEY
ON FILE AT THIS OFFICE



LEGEND:

- "DAVIS" STEEL STAKE (FND)
- 1" REBAR (FND)
- DRILL HOLE (FND)
- 3/4" REBAR W/D CAP (TO BE SET)
- FENCE POST W/BARBED WIRE
- ABUTTING PROPERTY LINE
- MATCH LINE
- SURVEYED LINE
- ASTRONOMICAL HIGH TIDE LINE
- "REFERENCE LINE"
- PSNH EASEMENT LINE
- FOUND
- TYPICAL
- STRAFFORD COUNTY
- REGISTRY OF DEEDS
- EXISTING TREE OR STUMP
- W/BARBED WIRE

NOTES:

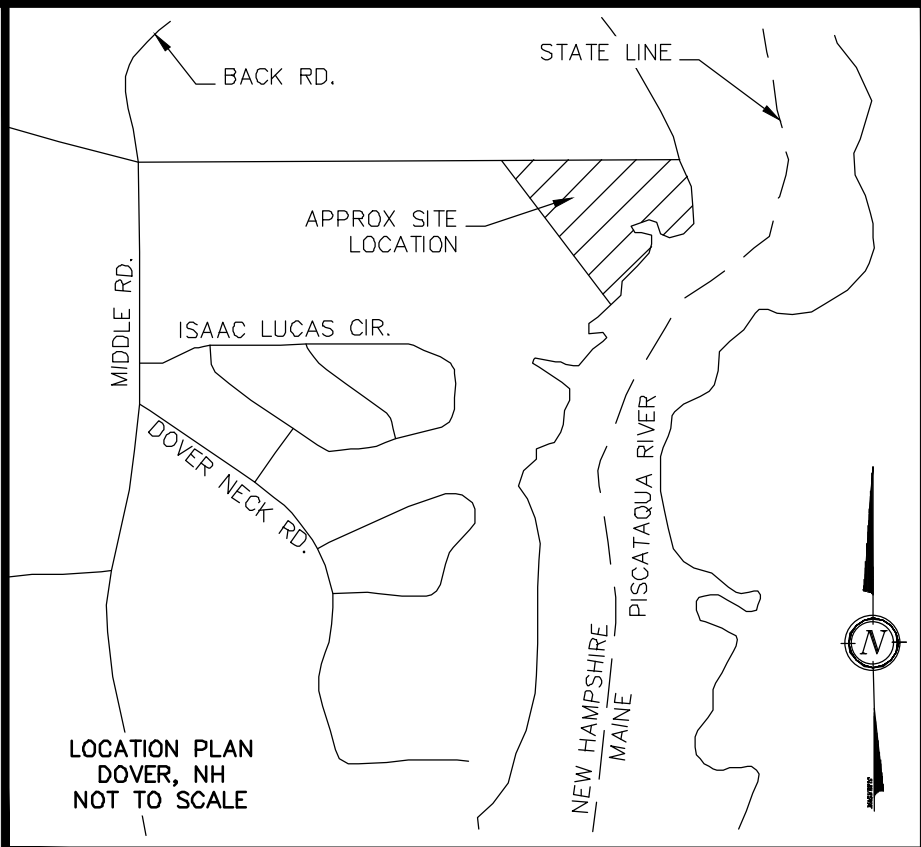
- OWNER: HEATH J. TODD REVOCABLE TRUST
HEATH J. TODD TRUSTEE
402 WEBBER HILL ROAD
KENNEBUNK, ME 04043
- TAX MAP M, LOT 104
- LOT AREA: 1,088,684 Sq. Ft., 24.99 Ac.
44,964 Sq.Ft., 1.03 Ac. (20' WIDE CONNECTION TO MIDDLE ROAD)
- S.C.R.D. BOOK 5159, PAGE 995
- THE INTENT OF THIS PLAN IS TO SHOW THE LOCATION OF BOUNDARIES OF TAX MAP M, LOT 104 IN ACCORDANCE WITH AND IN RELATION TO THE CURRENT AND ORIGINAL LEGAL DESCRIPTIONS, AND IS NOT AN ATTEMPT TO DEFINE UNWRITTEN RIGHTS, DETERMINE THE EXTENT OF OWNERSHIP, OR DEFINE THE LIMITS OF TITLE.
- BOUNDARY LINES BASED ON A CLOSED TRAVERSE WITH A CLOSURE BETTER THAN 1 PART IN 10,000 PERFORMED BY THIS OFFICE IN 2022
- I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, A PORTION OF THIS PARCEL DOES FALL WITHIN THE FLOOD PLAIN FLOOD HAZARD.
REF.: FEMA COMMUNITY #330145, MAP #33017C0340E,
DATED: SEPTEMBER 30, 2016.
- VERTICAL DATUM BASED ON NAVD88 ELEVATIONS. HORIZONTAL COORDINATES BASED ON NAD83. COORDINATES GATHERED USING TOPCON HIPER SR SURVEY GRADE GPS RECEIVERS.
- THE LAND IS IN CURRENT USE. S.C.R.D. BOOK 1753, PAGE 613.

I CERTIFY THAT THIS SURVEY PLAT IS NOT A SUBDIVISION PURSUANT TO THIS TITLE AND THAT THE LINES OF STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED AND THAT NO NEW WAYS ARE SHOWN.

6-26-24
KENNETH A. BERRY L.L.S. 805 DATE



#1	5-21-24	REVISE OWNERSHIP
REVISION	DATE	DESCRIPTION
BOUNDARY SURVEY LAND OF HEATH J. TODD REVOCABLE TRUST HEATH J. TODD TRUSTEE LAND OFF MIDDLE ROAD PISCATAQUA RIVER DOVER, N.H. TAX MAP M, LOT 104		
BERRY SURVEYING & ENGINEERING 335 SECOND CROWN POINT RD. BARRINGTON, N.H. (603)332-2863		
SCALE : 1 IN. EQUALS 150 FT.		
DATE : DECEMBER 16, 2022		
FILE NO. : DB 2021 - 087		



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BY: MCENEANEY SURVEY ASSOCIATES OF NEW ENGLAND
DATED: JANUARY 22, 2021
S.C.R.D. 12348
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BY: RICHARD P. TOWLE
DATED AUGUST 1972
- "EASEMENT WORKSHEET"
BY: DOUCET SURVEY
ON FILE AT THIS OFFICE

N/F HEATH J. TODD REVOCABLE TRUST
HEATH J. TODD TRUSTEE
TAX MAP M, LOT 104
S.C.R.D. BOOK 5159, PAGE 995
DEED PARCEL #2
LOT AREA:
44,964 Sq.Ft.
1.03 Ac.

EXISTING MONUMENTS & EVIDENCE
HELD ON THE SOUTHERN BOUNDARY.
NORTHERN BOUNDARY IS 20' AND
PARALLEL FROM SOUTHERN BOUNDARY.
S.C.R.D. BOOK 801, PAGE 289
PLAN REFERENCE #11

DEED DISTANCE ALONG SOUTHERN
BOUNDARY = 2227.00
MEASURED DISTANCE ALONG SOUTHERN
BOUNDARY = 2223.53

N/F LANGS, PATRICIA
340 CENTRAL AVE.
10 HAWTHORN ROAD
DOVER, NH 03820
TAX MAP M, LOT 92A
S.C.R.D. BOOK 1019, PAGE 352

SUBJECT TO THE
RIGHTS OF
PUBLIC SERVICE COMPANY
AS DEMONSTRATED ON
SHEET 3 OF 3

WATERSIDE LAND HOLDINGS LLC, C/O
SUMMIT LAND DEVELOPMENT LLC
340 CENTRAL AVE.
SUITE 202
DOVER, NH 03820
TAX MAP M, LOT 91C
S.C.R.D. BOOK 4879, PAGE 847

MCKENNA, JAMES F. & JOANNE E. TRUSTEES
MCKENNA, JAMES AND JOANNE REVOCABLE
LIVING TRUST
278 MIDDLE ROAD
DOVER, NH 03820
TAX MAP M, LOT 91B
S.C.R.D. BOOK 4520, PAGE 683
PLAN REFERENCE #1

LEGEND:

- "DAVIS" STEEL STAKE (FND)
- 3" REBAR (FND)
- DRILL HOLE (FND)
- 3" REBAR W/D CAP (TO BE SET)
- FENCE POST W/BARBED WIRE
- ABUTTING PROPERTY LINE
- MATCH LINE
- SURVEY TIE LINE
- ASTRONOMICAL HIGH TIDE LINE
- "REFERENCE LINE"
- PSNH EASEMENT LINE
- FOUND
- TYP
- S.C.R.D.
- STRAFFORD COUNTY
- REGISTRY OF DEEDS
- EXISTING TREE OR STUMP
- W/BARBED WIRE

I CERTIFY THAT THIS SURVEY PLAT IS NOT A
SUBDIVISION PURSUANT TO THIS TITLE AND THAT THE
LINES OF STREETS AND WAYS SHOWN ARE THOSE OF
PUBLIC OR PRIVATE STREETS OR WAYS ALREADY
ESTABLISHED AND THAT NO NEW WAYS ARE SHOWN

KENNETH A. BERRY L.L.S. 805 DATE 6-26-24

NOTES:

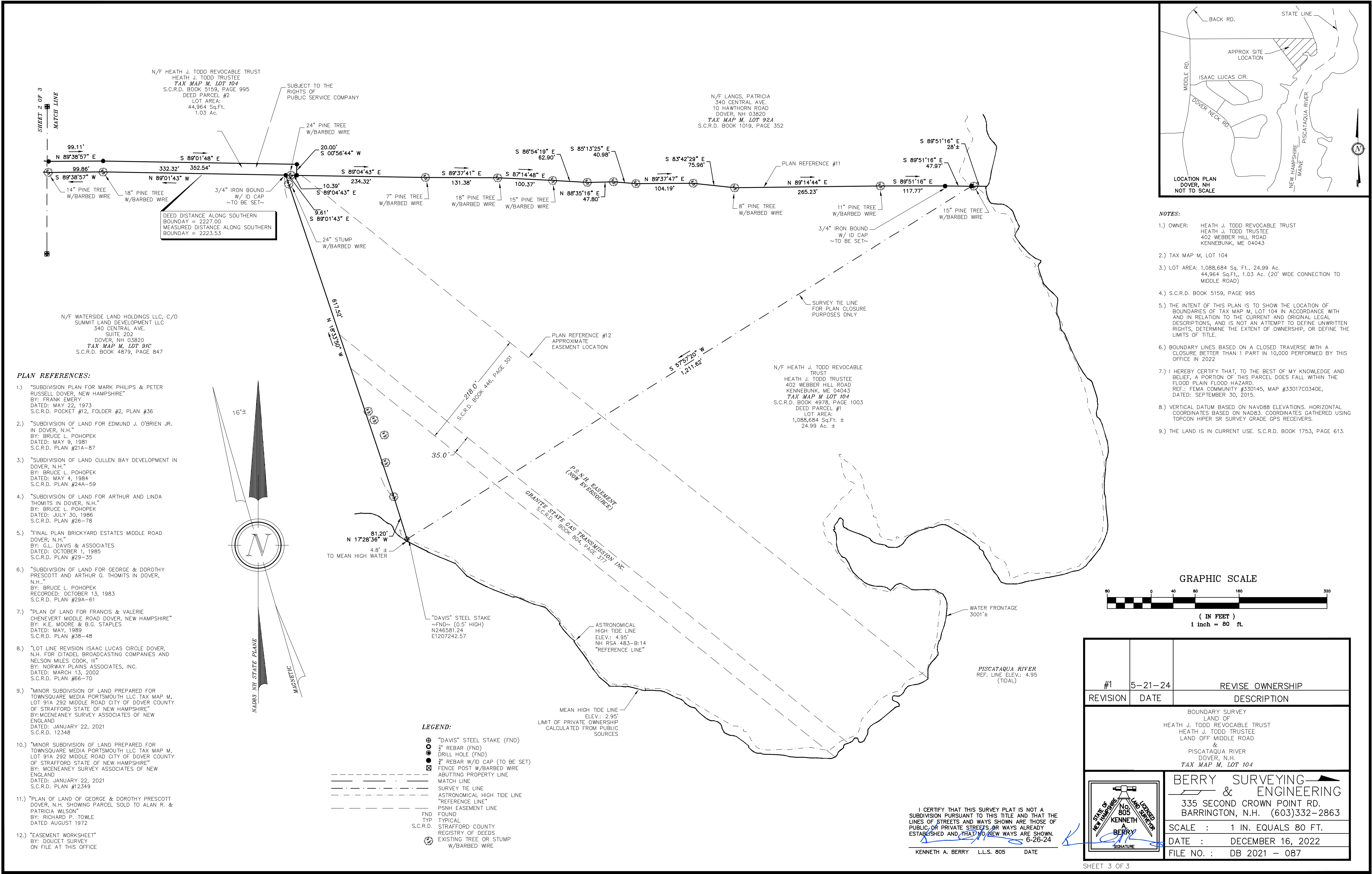
- OWNER: HEATH J. TODD REVOCABLE TRUST
HEATH J. TODD TRUSTEE
402 WEBBER HILL ROAD
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- LOT AREA: 1,088,684 Sq. Ft., 24.99 Ac.
44,964 Sq.Ft., 1.03 Ac. (20' WIDE CONNECTION TO MIDDLE ROAD)
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- BOUNDARY LINES BASED ON A CLOSED TRAVERSE WITH A CLOSURE BETTER THAN 1 PART IN 10,000 PERFORMED BY THIS OFFICE IN 2022
- I HEREBY CERTIFY THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, A PORTION OF THIS PARCEL DOES FALL WITHIN THE FLOOD PLAIN FLOOD HAZARD. REF: FEMA COMMUNITY #330145, MAP #33017C0340E, DATED: SEPTEMBER 30, 2015.
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- THE LAND IS IN CURRENT USE. S.C.R.D. BOOK 1753, PAGE 613.

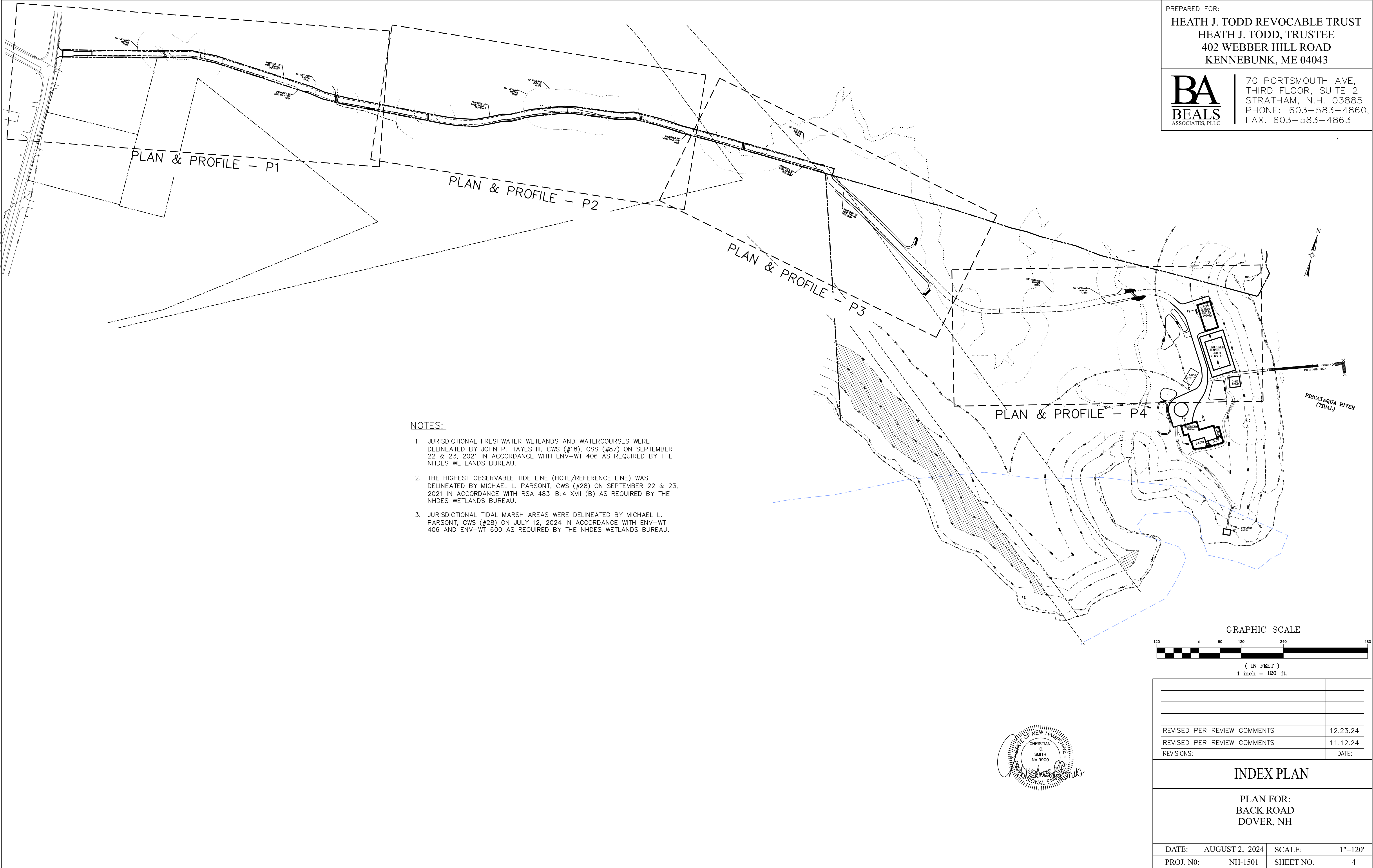
GRAPHIC SCALE

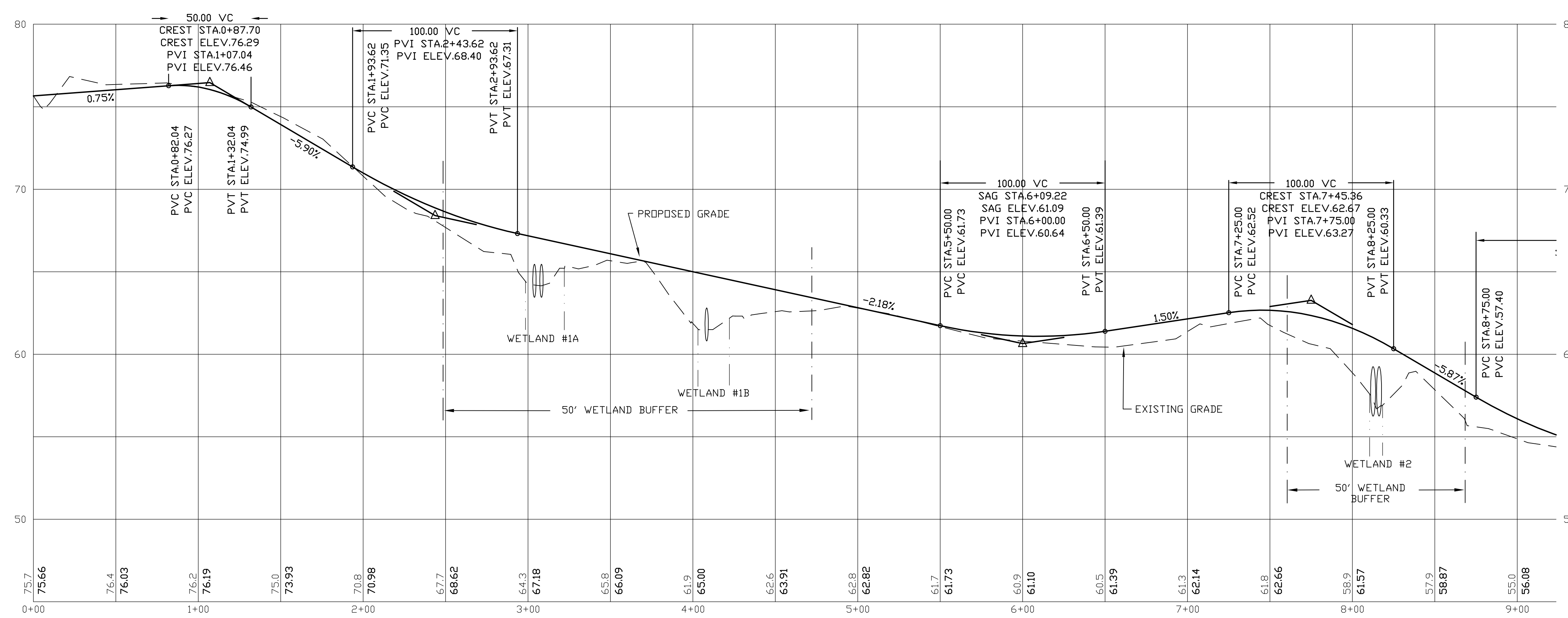
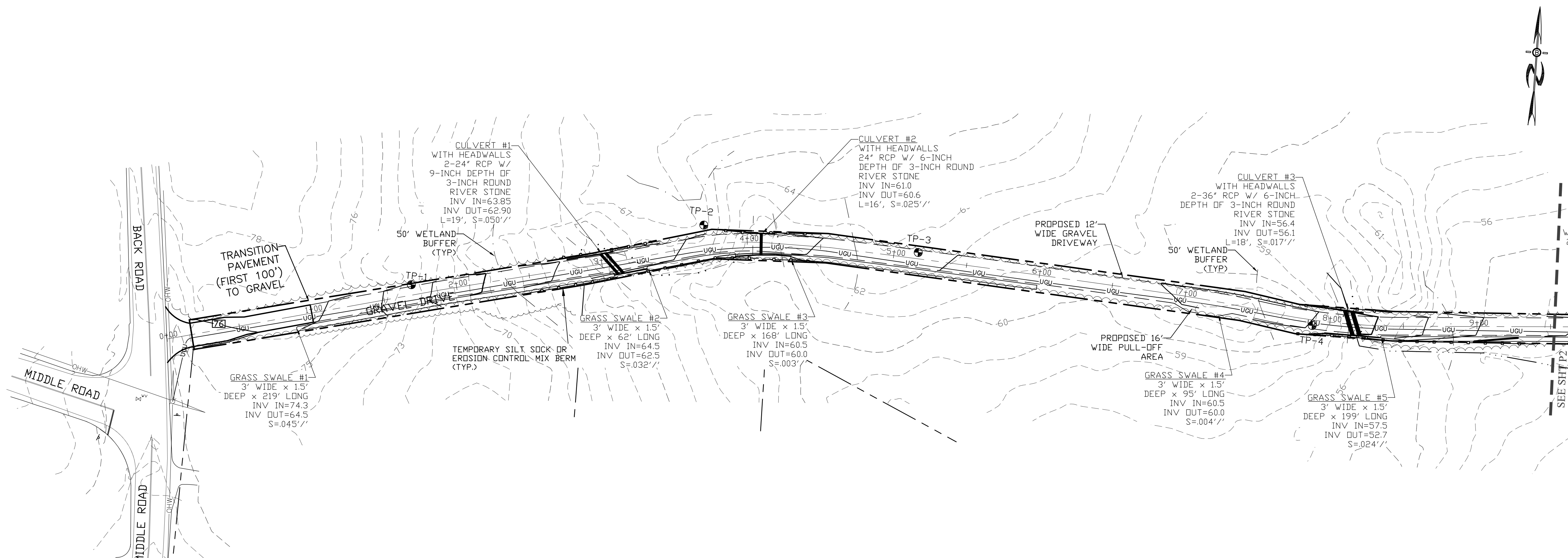


(IN FEET)
1 inch = 80 ft.

#1	5-21-24	REVISE OWNERSHIP
REVISION	DATE	DESCRIPTION
BOUNDARY SURVEY LAND OF HEATH J. TODD REVOCABLE TRUST HEATH J. TODD TRUSTEE LAND OFF MIDDLE ROAD & PISCATAQUA RIVER DOVER, N.H. TAX MAP M, LOT 104		
BERRY SURVEYING & ENGINEERING 335 SECOND CROWN POINT RD. BARRINGTON, N.H. (603)332-2863		
SCALE : 1 IN. EQUALS 80 FT.		
DATE : DECEMBER 16, 2022		
FILE NO. : DB 2021 - 087		







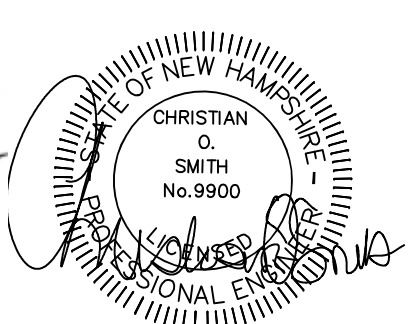
PREPARED FOR:
HEATH J. TODD REVOCABLE TRUST
HEATH J. TODD, TRUSTEE
402 WEBBER HILL ROAD
KENNEBUNK, ME 04043

BA
BEALS
ASSOCIATES, PLLC

70 PORTSMOUTH AVE,
THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
FAX: 603-583-4863

NOTES

- ALL ELECTRICAL, TELEPHONE, CABLE TELEVISION AND ALARM LINES TO BE UNDERGROUND. LOW PROFILE UTILITY BOX STRUCTURES SHALL BE USED TO THE GREATEST EXTENT.
- ALL BENCHMARKS AND TOPOGRAPHY SHOULD BE FIELD VERIFIED BY THE CONTRACTOR, ENGINEER TO BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCY.
- CONTRACTOR SHALL USE EXTREME CAUTION TO ENSURE ALL GRADING AND SOIL DISTURBANCE REMAINS ON THE PROPERTY.
- ALL CONSTRUCTION METHODS AND MATERIALS WILL CONFORM TO THE TOWN STANDARD SPECIFICATIONS AND TO N.H.D.O.T. STANDARDS AND REGULATIONS.
- ALL DRAINAGE STRUCTURES AND SWALES WILL BE BUILT AND STABILIZED PRIOR TO HAVING RUN-OFF DIRECTED TO THEM.
- SEE DETAIL SHEETS FOR STANDARD CONSTRUCTION DETAILS.
- ALL CROSS CULVERTS TO HAVE HEADWALLS OR F.E.S. MAY BE USED FOR DRIVEWAY CULVERTS WHERE APPROPRIATE. CULVERTS AND ROADWAY SHOULD BE MARKED WITH GREEN DELINEATORS FOR EASY LOCATION. TYPE & LOCATION TO BE APPROVED BY TOWN ROAD AGENT.
- CONTRACTOR TO EMPLOY BEST MANAGEMENT PRACTICES AS SHOWN ON PLANS, AND AS FOUND IN THE NH STORMWATER MANUAL DATE DECEMBER, 2008.
- NATURAL AREA BUFFERS ARE TO REMAIN WOODED.
- CULVERTS SHOULD BE MAINTAINED BI-ANNUALLY.



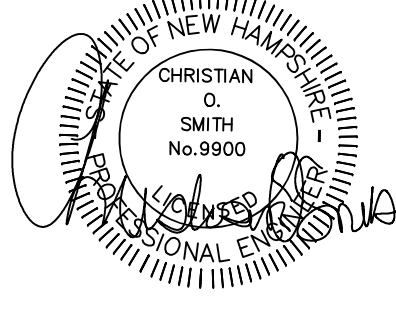
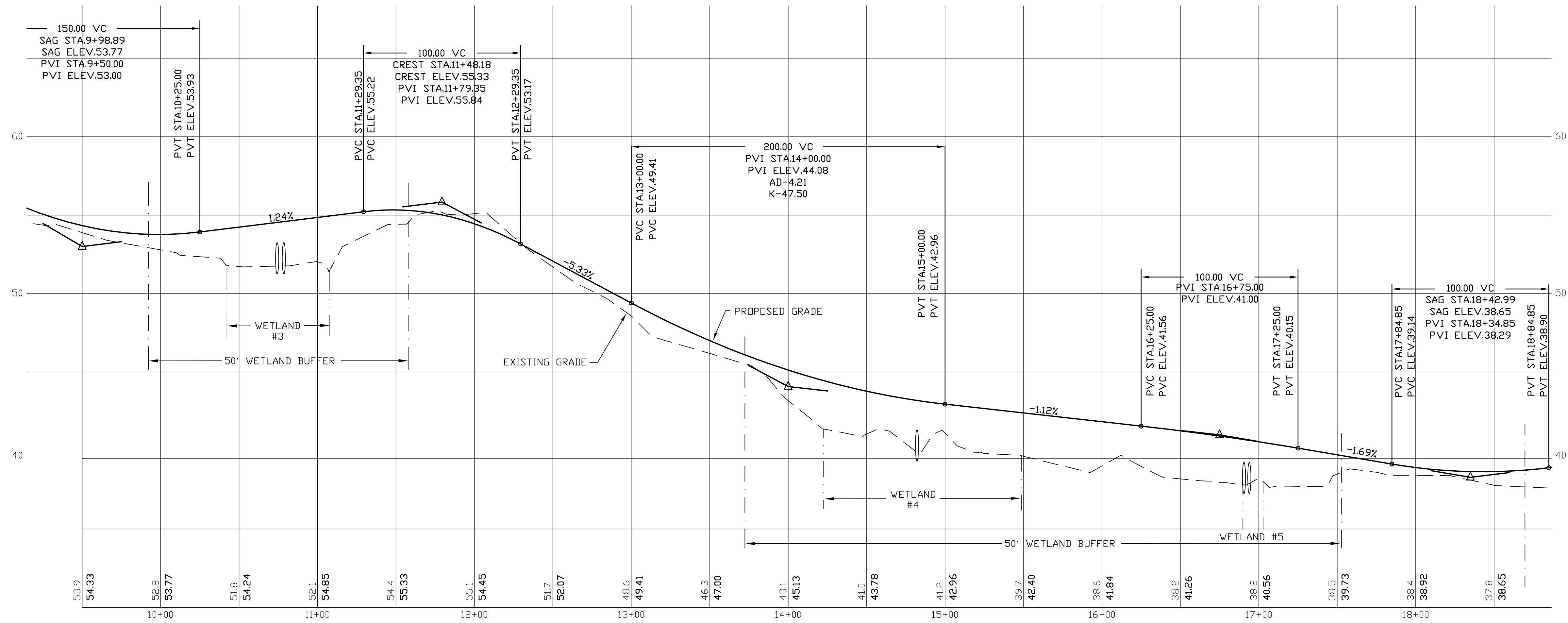
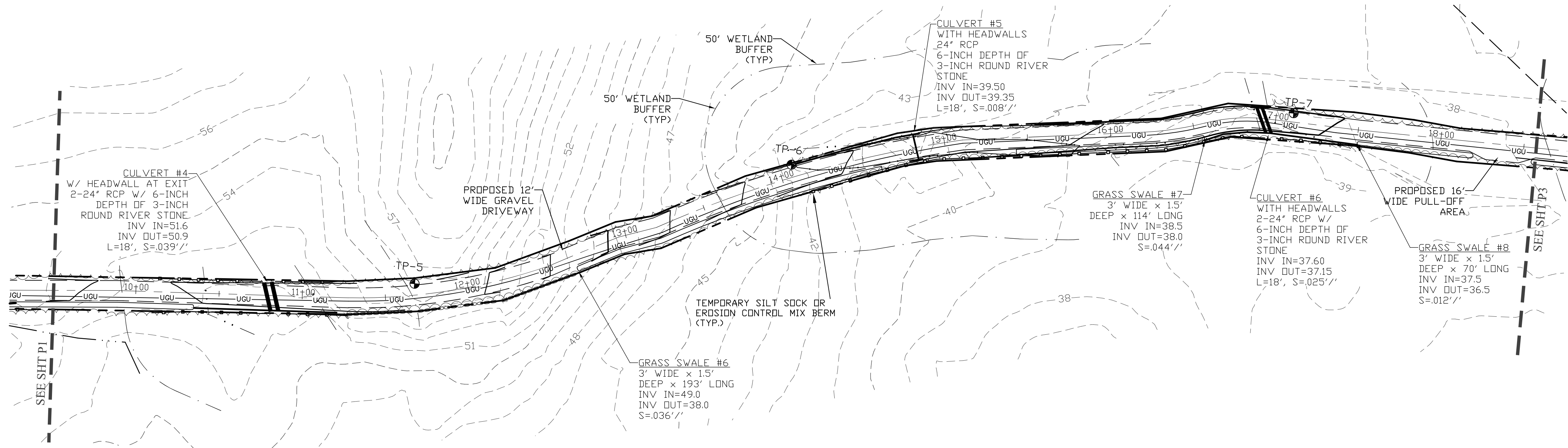
PROFILE SCALES:
HORIZONTAL: 1"=40' VERTICAL: 1"=4'

REVISED PER REVIEW COMMENTS	12.23.24
REVISED PER REVIEW COMMENTS	11.12.24
REVISIONS:	DATE:

PLAN & PROFILE - P1

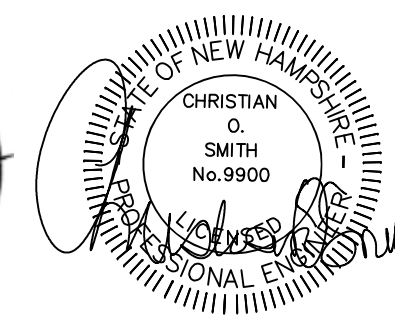
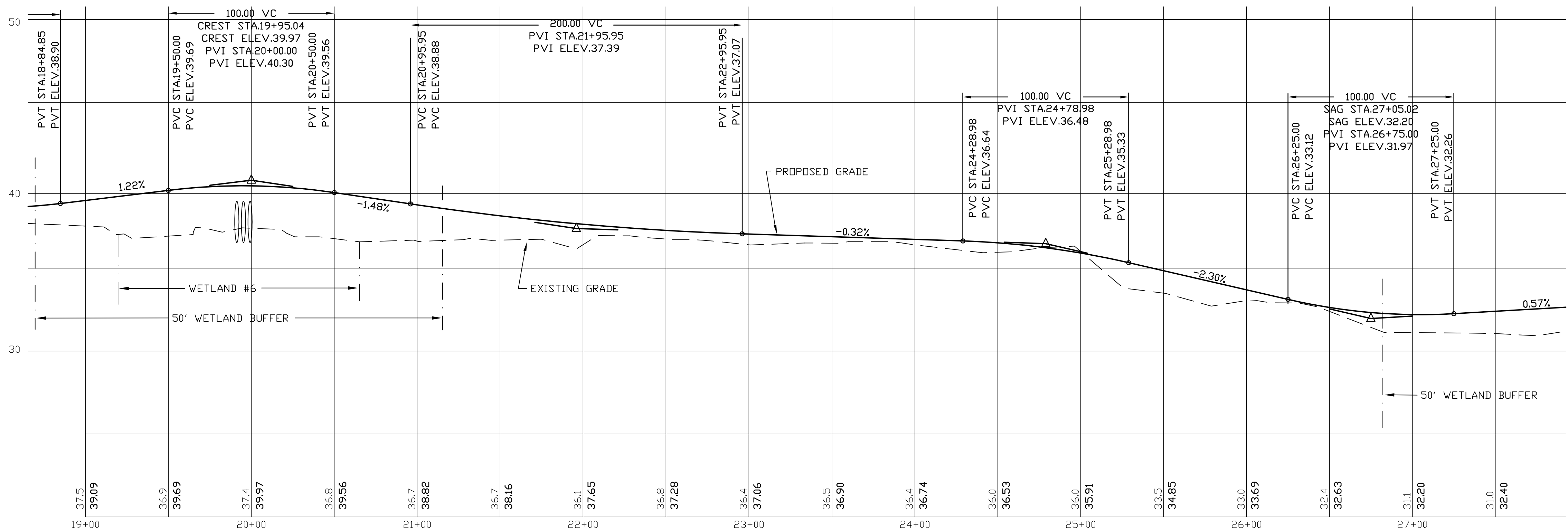
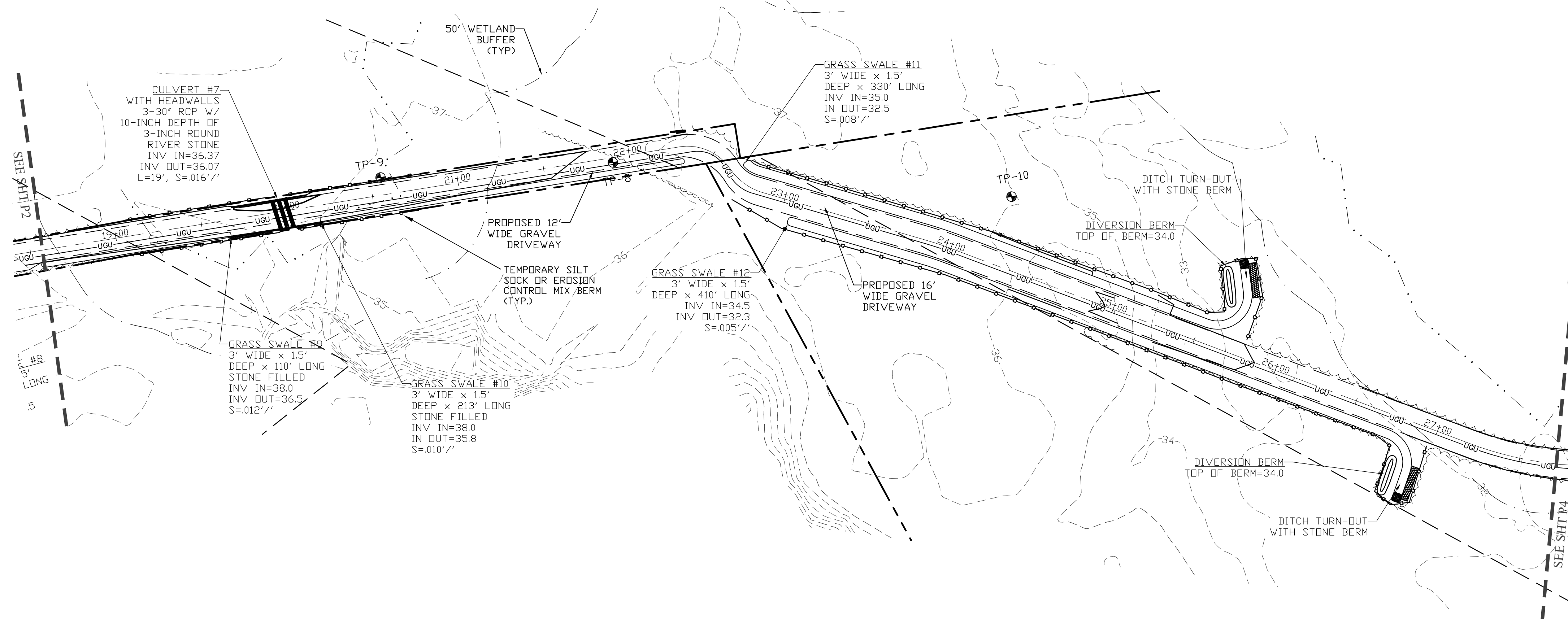
PLAN FOR:
BACK ROAD
DOVER, NH

DATE:	JUNE 28, 2024	SCALE:	1"=40'
PROJ. NO:	NH-1501	SHEET NO.	5



PROFILE SCALES:
HORIZONTAL: 1"=40' VERTICAL: 1"=4'

PLAN & PROFILE - P2	
PLAN FOR: BACK ROAD DOVER, NH	
DATE: JUNE 28, 2024	SCALE: 1"=40'
PROJ. NO: NH-1501	SHEET NO. 6



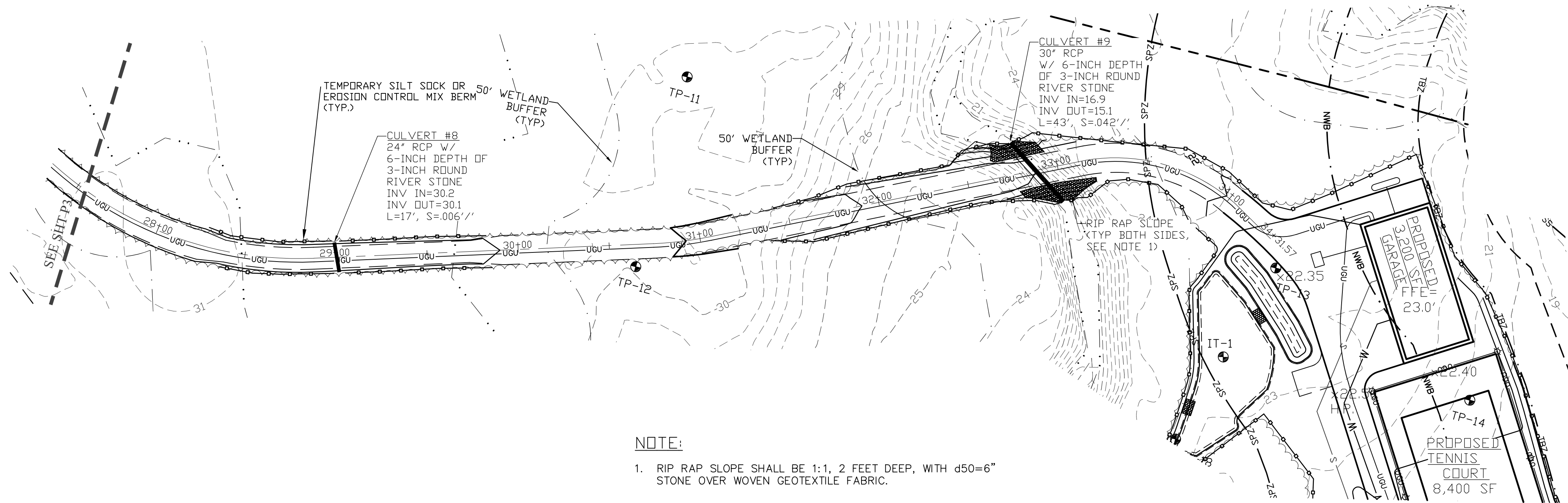
PROFILE SCALES:
HORIZONTAL: 1"=40' VERTICAL: 1"=4'

REVISED PER REVIEW COMMENTS	12.23.24
REVISED PER REVIEW COMMENTS	11.12.24
REVISIONS:	DATE:

PLAN & PROFILE - P3

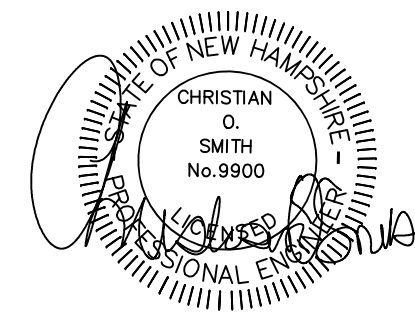
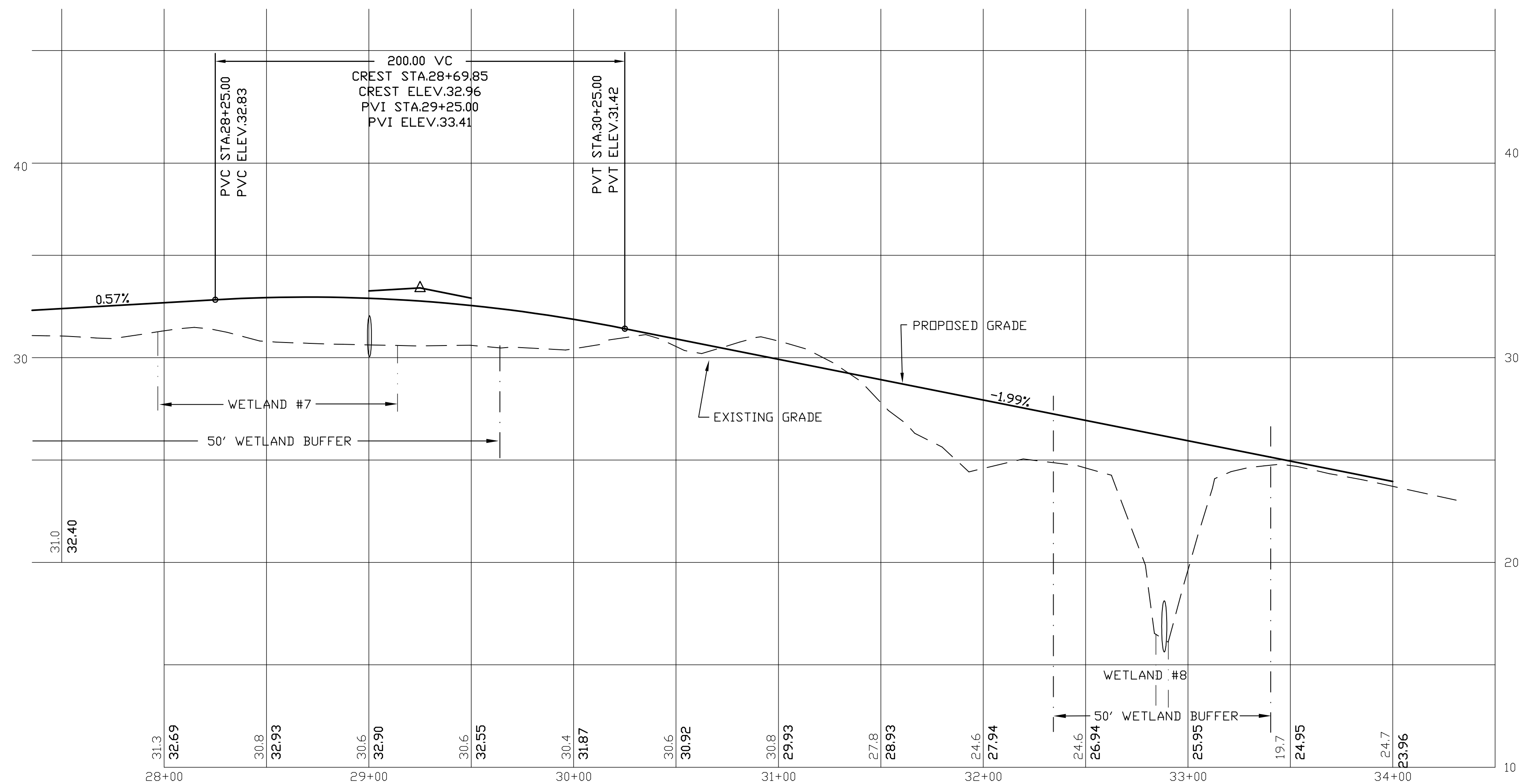
PLAN FOR:
BACK ROAD
DOVER, NH

DATE:	JUNE 28, 2024	SCALE:	1"=40'
PROJ. NO:	NH-1501	SHEET NO.	7



NOTE:

1. RIP RAP SLOPE SHALL BE 1:1, 2 FEET DEEP, WITH d50=6" STONE OVER WOVEN GEOTEXTILE FABRIC.



PROFILE SCALES:
HORIZONTAL: 1"=40' VERTICAL: 1"=4'

PLAN & PROFILE - P4	
PLAN FOR: BACK ROAD DOVER, NH	
DATE: AUGUST 2, 2024	SCALE: 1"=40'
PROJ. NO: NH-1501	SHEET NO. 8

PREPARED FOR:
HEATH J. TODD REVOCABLE TRUST
HEATH J. TODD, TRUSTEE
402 WEBBER HILL ROAD
KENNEBUNK, ME 04043

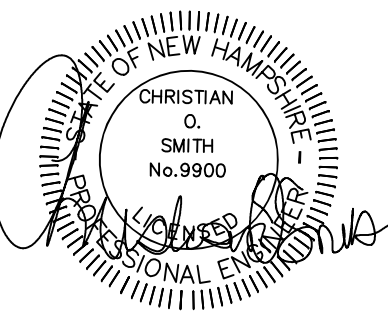


70 PORTSMOUTH AVE,
THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
FAX: 603-583-4863

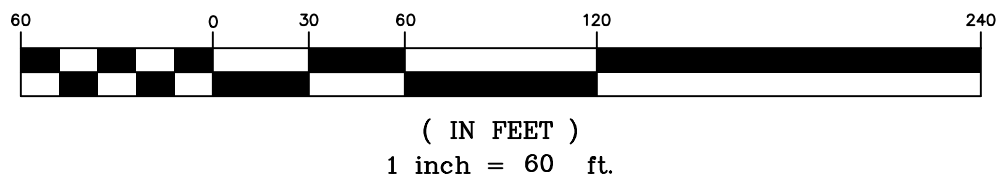
LEGEND

- FRESHWATER WETLAND BOUNDARY
- FRESHWATER WETLAND / STREAM BUFFER
- PROPERTY LINE
- HOTL / REFERENCE LINE
- FHZ --- FLOOD HAZARD ZONE
- PSS --- 50' NHDES PRIMARY STRUCTURE SETBACK
- TBZ --- 100' NHDES TIDAL BUFFER ZONE
- NWB --- 150' NHDES NATURAL WOODLAND BUFFER SETBACK
- SPZ --- 250' NHDES PROTECTED SHORELAND ZONE
- NATURAL WOODLAND AREA REQUIREMENT

PISCATAQUA RIVER
(TIDAL)



GRAPHIC SCALE



REVISED PER REVIEW COMMENTS	12.23.24
REVISED PER REVIEW COMMENTS	11.12.24
REVISIONS:	DATE:

SHORELAND IMPACT PLAN

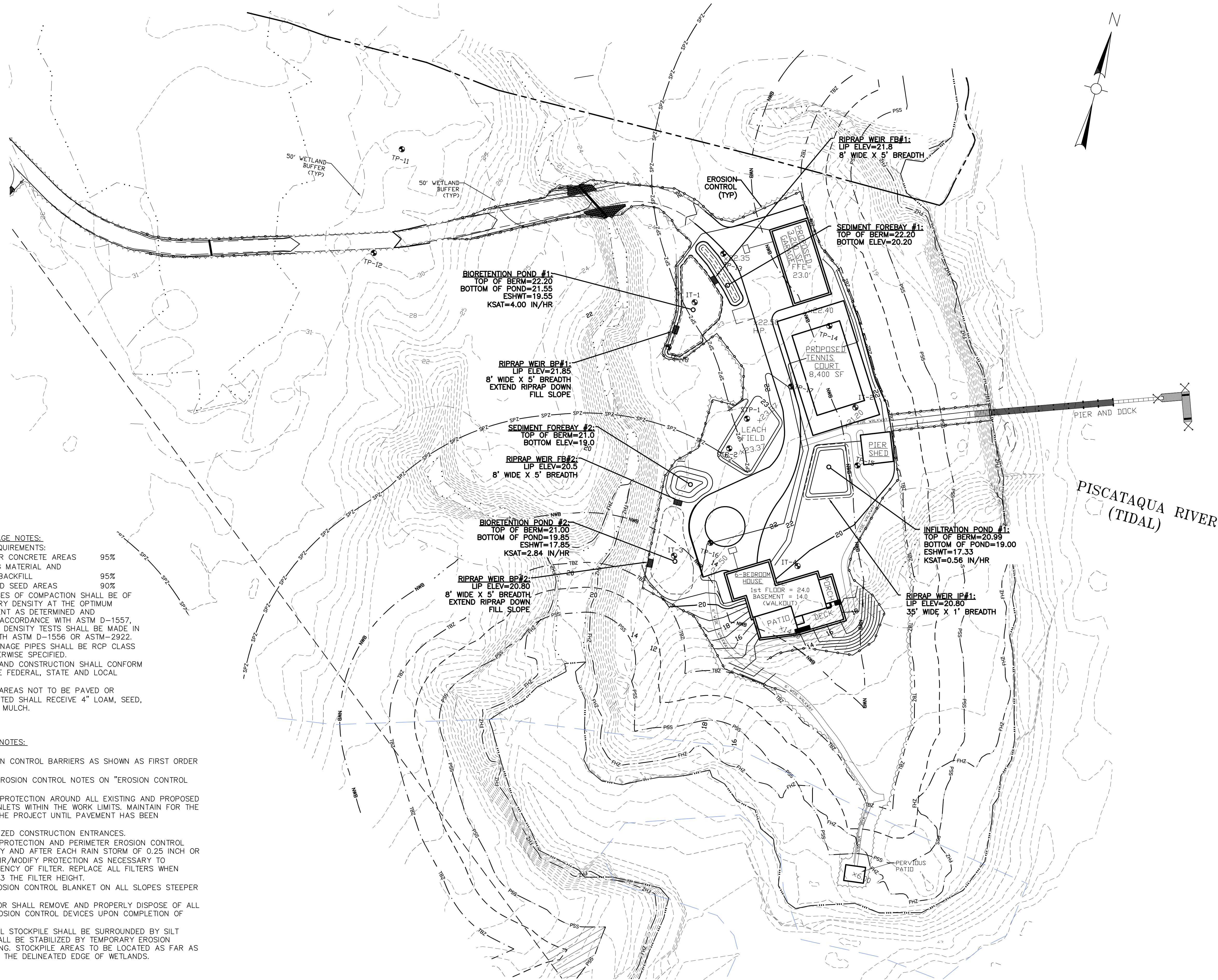
PLAN FOR:
BACK ROAD
DOVER, NH

DATE: AUGUST 2, 2024	SCALE: 1"=60'
PROJ. NO: NH-1501	SHEET NO. 9

PROTECTED SHORELAND CALCULATIONS	
TOTAL AREA WITHIN PROTECTED SHORELAND	633,143 SF
TOTAL AREA IMPACTED WITHIN PROTECTED SHORELAND ZONE	103,855 SF
TOTAL AREA IMPACTED WITHIN PROTECTED SHORELAND ZONE EXCLUDING TBZ	101,039 SF
TOTAL AREA IMPACTED WITHIN TBZ	1,110 SF (PERMANENT) 1,706 SF (TEMPORARY)
TOTAL IMPERVIOUS AREA WITHIN PROTECTED SHORELAND	700 SF (EXISTING) 36,924 SF (PROPOSED)
TOTAL AREA TO REMAIN AS NATURAL WOODLAND	67,798 SF

NOTES:

1. ANY ADDITIONAL WETLAND BUFFER DISTURBANCE OUTSIDE OF THE AREAS SHOWN SHALL BE RESTORED IN ACCORDANCE WITH THE STREAM BANK SEEDING SPECIFICATIONS ON THE WETLAND & STREAM RESTORATION PLAN.
2. IN ACCORDANCE WITH RSA 483-B:9.V.(c), THE SEPTIC SYSTEM IS GREATER THAN 125 FEET FROM THE REFERENCE LINE AND 75 FEET FROM ALL RIVERS.
3. AN AS-BUILT PLAN OF THE DRIVEWAY IS TO BE PREPARED AND SUBMITTED TO COMMUNITY SERVICES IN DIGITAL (.DWG AND .PDF) FORMATS.



GRADING & DRAINAGE NOTES:

1. 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 RCP CLASS IV, UNLESS OTHERWISE SPECIFIED.
3. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM WITH APPLICABLE FEDERAL, STATE AND LOCAL CODES.
4. ALL DISTURBED AREAS NOT TO BE PAVED OR OTHERWISE TREATED SHALL RECEIVE 4" LOAM, SEED, FERTILIZER, AND MULCH.

EROSION CONTROL NOTES:

1. INSTALL EROSION CONTROL BARRIERS AS SHOWN AS FIRST ORDER OF WORK.
2. SEE GENERAL EROSION CONTROL NOTES ON "EROSION CONTROL NOTES" SHEET.
3. PROVIDE INLET PROTECTION AROUND ALL EXISTING AND PROPOSED CATCH BASIN INLETS WITHIN THE WORK LIMITS. MAINTAIN FOR THE DURATION OF THE PROJECT UNTIL PAVEMENT HAS BEEN INSTALLED.
4. INSTALL STABILIZED CONSTRUCTION ENTRANCES.
5. INSPECT INLET PROTECTION AND PERIMETER EROSION CONTROL MEASURES DAILY AND AFTER EACH RAIN STORM OF 0.25 INCH OR GREATER. REPAIR/MODIFY PROTECTION AS NECESSARY TO MAXIMIZE EFFICIENCY OF FILTER. REPLACE ALL FILTERS WHEN SEDIMENT IS 1/3 THE FILTER HEIGHT.
6. CONSTRUCT EROSION CONTROL BLANKET ON ALL SLOPES STEEPER THAN 3:1.
7. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF CONSTRUCTION.
8. TEMPORARY SOIL STOCKPILE SHALL BE SURROUNDED BY SILT FENCE AND SHALL BE STABILIZED BY TEMPORARY EROSION CONTROL SEEDING. STOCKPILE AREAS TO BE LOCATED AS FAR AS POSSIBLE FROM THE DELINEATED EDGE OF WETLANDS.

PREPARED FOR:
HEATH J. TODD REVOCABLE TRUST
HEATH J. TODD, TRUSTEE
402 WEBBER HILL ROAD
KENNEBUNK, ME 04043

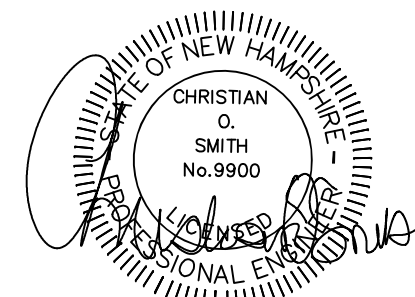


70 PORTSMOUTH AVE,
THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
FAX: 603-583-4863

LEGEND

- FRESHWATER WETLAND BOUNDARY
- FRESHWATER WETLAND / STREAM BUFFER
- PROPERTY LINE
- HOTL / REFERENCE LINE
- FHZ --- FLOOD HAZARD ZONE
- PSS --- 50' NHDES PRIMARY STRUCTURE SETBACK
- TBZ --- 100' NHDES TIDAL BUFFER ZONE
- NWB --- 150' NHDES NATURAL WOODLAND BUFFER SETBACK
- SPZ --- 250' NHDES PROTECTED SHORELAND ZONE
- NATURAL WOODLAND AREA REQUIREMENT

UGU



GRAPHIC SCALE



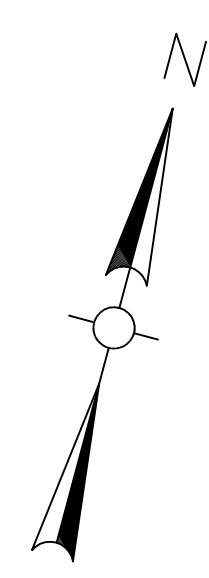
(IN FEET)
1 inch = 50 ft.

REVISED FOR AOT SUBMITTAL	12.27.24
REVISED PER REVIEW COMMENTS	12.23.24
REVISED PER REVIEW COMMENTS	10.12.24
REVISIONS:	DATE:

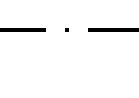
**GRADING, DRAINAGE, &
EROSION CONTROL PLAN**

PLAN FOR:
BACK ROAD
DOVER, NH

DATE: AUGUST 2, 2024	SCALE: 1"=60'
PROJ. NO: NH-1501	SHEET NO. 10

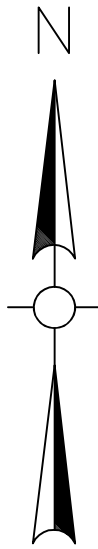


70 PORTSMOUTH AVE,
THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
FAX: 603-583-4863

 FRESHWATER WETLAND BOUNDARY
 FRESHWATER WETLAND/ STREAM BUFFER
 PROPERTY LINE
 HOTEL / REFERENCE LINE
 FHZ FLOOD HAZARD ZONE
 PSS 50' NHDES PRIMARY STRUCTURE SETBACK
 TBZ 100' NHDES TIDAL BUFFER ZONE
 NWB 150' NHDES NATURAL SHORELAND BUFFER SETBACK
 SPZ 250' NHDES PROTECTED SHORELAND ZONE
 NATURAL SHORELAND AREA REQUIREMENT
 W PROPOSED WATER LINE
 UGU PROPOSED UNDERGROUND ELECTRIC & COMMUNICATION LINES
 S PROPOSED SEPTIC LINE

(IN FEET)
1 inch = 50 ft.

DATE: AUGUST 2, 2024	SCALE: 1"=60'
PROJ. NO: NH-1501	SHEET NO. 11



LEGEND

 AREAS TO BE RESTORED

 PHOTO LOCATION (RESTORATION AREA)

AFTER THE FACT (ATF) RESTORATION		
ATF#	TO BE RESTORED	TYPE
1	350 SF	WETLAND
2	105 SF	WETLAND
3	160 SF	WETLAND
4	80 SF	WETLAND
5	385 SF	WETLAND
6	120 SF	WETLAND
7A	88 SF/9 LF	STREAM BANK
7B	109 SF/11 LF	WETLAND/STREAM
7C	91 SF/9 LF	STREAM BANK

WETLAND/STREAM TOTAL = 1,309 SF (11 LF)
STREAM BANK TOTAL = 179 SF (18 LF)
TOTAL TO BE RESTORED = 1,488 SF (29 LF)

- NOTES:**
- EXISTING RUTS WITHIN AREAS TO BE RESTORED SHALL BE HAND RAKED, OR A SIMILAR NON-INTRUSIVE APPROACH, PRIOR TO RESTORATION SEEDING.
 - SEE SEEDING SPECIFICATION NOTES BELOW FOR WETLAND AND STREAM BANK RESTORATION AREAS.
 - SEED MIXES SHALL BE APPLIED PER MANUFACTURER'S SPECIFICATIONS.
 - SEED MIXES ARE AVAILABLE THROUGH:
NEW ENGLAND WETLAND PLANTS, INC.
820 WEST ST. AMHERST, MA
413-548-8000
INFO@NEWP.COM

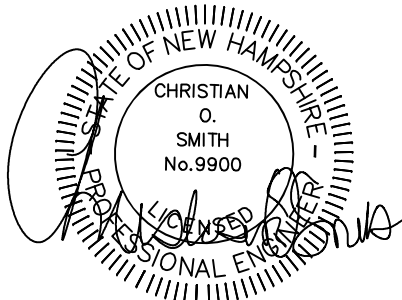
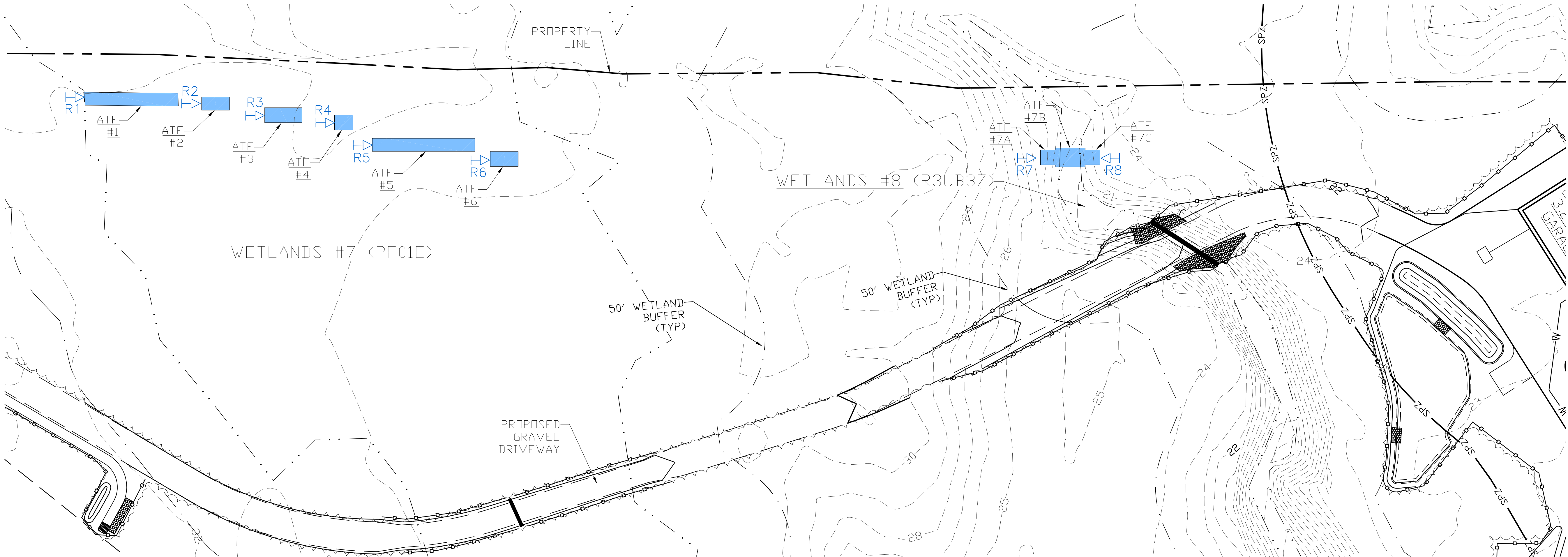
COWARDIN WETLAND CLASSIFICATION LEGEND

- P = PALUSTRINE
SS = SCRUB-SHRUB
FO = FORESTED
1 = BROAD-LEAVED DECIDUOUS
R3 = RIVERINE, UPPER PERENNIAL
UB3 = UNCONSOLIDATED BOTTOM/MUD
UB4 = UNCONSOLIDATED BOTTOM/ORGANIC
E = SEASONALLY FLOODED/SATURATED
Z = INTERMITTENTLY EXPOSED/PERMANENT

PREPARED FOR:
HEATH J. TODD REVOCABLE TRUST
HEATH J. TODD, TRUSTEE
402 WEBBER HILL ROAD
KENNEBUNK, ME 04043



70 PORTSMOUTH AVE,
THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
FAX: 603-583-4863



SEEDING SPECIFICATIONS FOR WETLAND RESTORATION AREAS:

AREAS OF WETLAND RESTORATION ARE TO BE SEEDED WITH A WETLAND SEED MIX SUCH AS NEW ENGLAND WETMIX OR AN EQUIVALENT SUBSTITUTE. APPLY SEED AT A RATE OF 1 POUND PER 2,500 SF.

NEW ENGLAND WETMIX OR AN EQUIVALENT SUBSTITUTE TYPICALLY INCLUDES:

COMMON NAME
FOX SEDGE
BLUNT BROOM SEDGE
LURID SEDGE
HOP SEDGE
FOWL BLUEGRASS
BEGGAR TICKS
GREEN BULRUSH
SWAMP MILKWEED
FRINGED SEDGE
SOFT RUSH
STARVED/CALICO ASTER
BLUE FLAG
AMERICAN MANNAGRASS
SQUARE STEMMED MONKEY FLOWER
SPOTTED JOE PYE WEED

BOTANICAL NAME
CAREX VULPINOIDEA
CAREX SCOPARIA
CAREX LURIDA
CAREX LUPULINA
POA PALUSTRIS
BIDENS FRONDOSA
SCIRPUS ATROVIRENS
ASCLEPIAS INCARNATA
CAREX CRINITA
JUNCUS EFFUSUS
ASTER LATERIFLORUS
IRIS VERSICOLOR
GLYCERIA GRANDIS
MIMULUS RINGENS
EUPATORIUM MACULATUM

SEEDING SPECIFICATIONS FOR STREAM BANK RESTORATION AREAS:

AREAS OF STREAM BANK RESTORATION ARE TO BE SEEDED WITH A SEED MIX SUCH AS NEW ENGLAND SEMI-SHADE GRASS AND FORBS MIX OR AN EQUIVALENT SUBSTITUTE. APPLY SEED AT A RATE OF 1 POUND PER 1,450 SF.

NEW ENGLAND SEMI-SHADE GRASS AND FORBS OR AN EQUIVALENT SUBSTITUTE TYPICALLY INCLUDES:

COMMON NAME
VIRGINIA WILD RYE
CANADA WILD RYE
SENSITIVE FERN
BONESET
PATH RUSH

BOTANICAL NAME
ELYMUS VIRGINICUS
ELYMUS CANADENSIS
ONOCLEA SENSIBILIS
EUPATORIUM PERFOOLIATUM
JUNCUS TENUIS

GRAPHIC SCALE



(IN FEET)
1 inch = 30 ft.

REVISED PER REVIEW COMMENTS	12/23/24
REVISED PER REVIEW COMMENTS	11/12/24
REVISIONS:	DATE:

**WETLAND & STREAM BANK
RESTORATION PLAN**

PLAN FOR:
BACK ROAD
DOVER, NH

DATE:	JUNE 28, 2024	SCALE:	1"=30'
PROJ. NO:	NH-1501	SHEET NO.	12

* FOR FURTHER INFORMATION REGARDING RECOMMENDED SEED MIXES, THE CONTRACTOR IS ENCOURAGED TO REACH OUT TO MADDIE SEVERANCE AT NHHNB AT (603) 271-2834.

HEATH J. TODD REVOCABLE TRUST
HEATH J. TODD, TRUSTEE
402 WEBBER HILL ROAD
KENNEBUNK, ME 04043

BA
BEALS
ASSOCIATES, PLLC

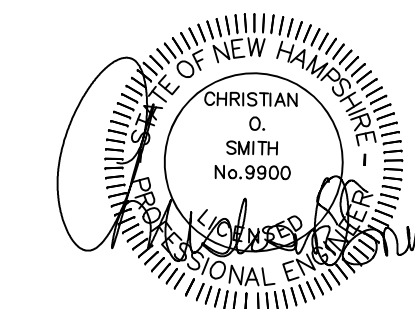
70 PORTSMOUTH AVE,
THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
FAX. 603-583-4863

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PERMANENT WETLAND IMPACT

TEMPORARY WETLAND IMPACT

PERMANENT WETLAND BUFFER IMPACT



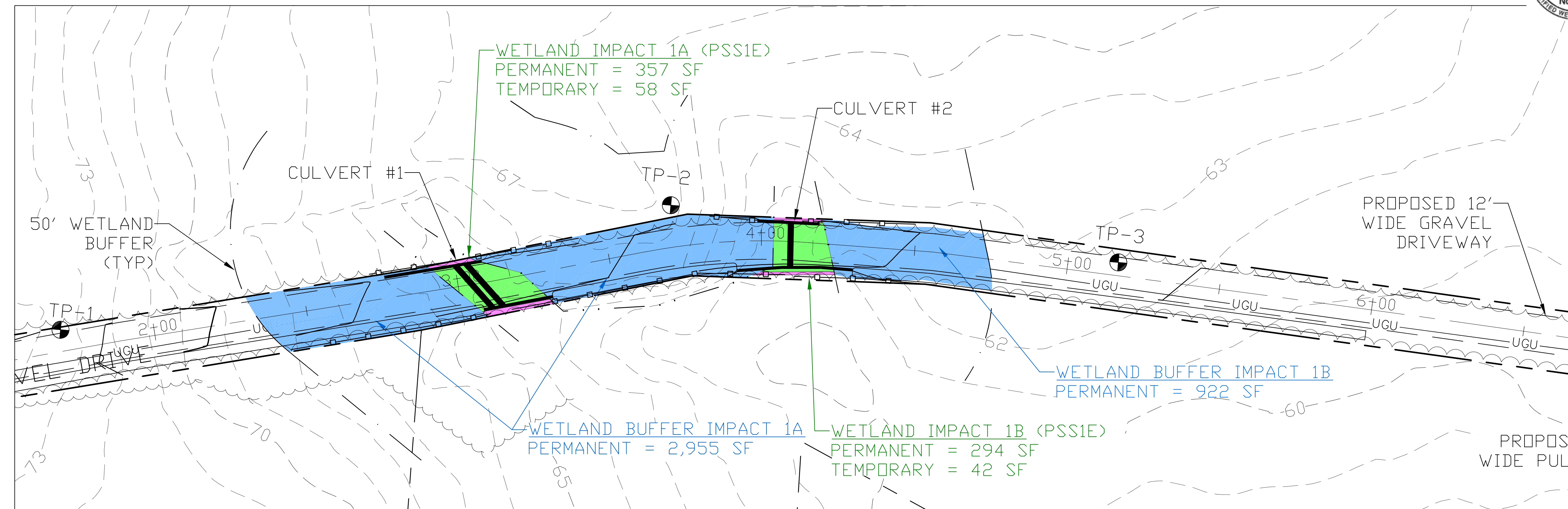
<u>IMPACT SUMMARY</u>	
WETLAND/ STREAM IMPACT	8,938 SF (PERMANENT) 166 SF (TEMPORARY)
TIDAL BUFFER ZONE (TBZ) IMPACT	1,110 SF (PERMANENT) 1,706 SF (TEMPORARY)
PERENNIAL STREAM BANK IMPACT	1,573 SF (PERMANENT)
PERENNIAL STREAM LINEAR IMPACT	130 LF (PERMANENT)
INTERMITTENT STREAM LINEAR IMPACT	22 LF (PERMANENT)
PISCATAQUA RIVER BANK IMPACT (INCLUDED IN TBZ IMPACT #)	131 SF (PERMANENT)
PISCATAQUA RIVER BANK LINEAR IMPACT	6 LF (PERMANENT)
CITY OF DOVER WETLAND BUFFER IMPACT (INCLUDES TBZ IMPACTS)	28,193 SF (PERMANENT) 1,706 SF (TEMPORARY)

(IN FEET)
1 inch = 20 ft.

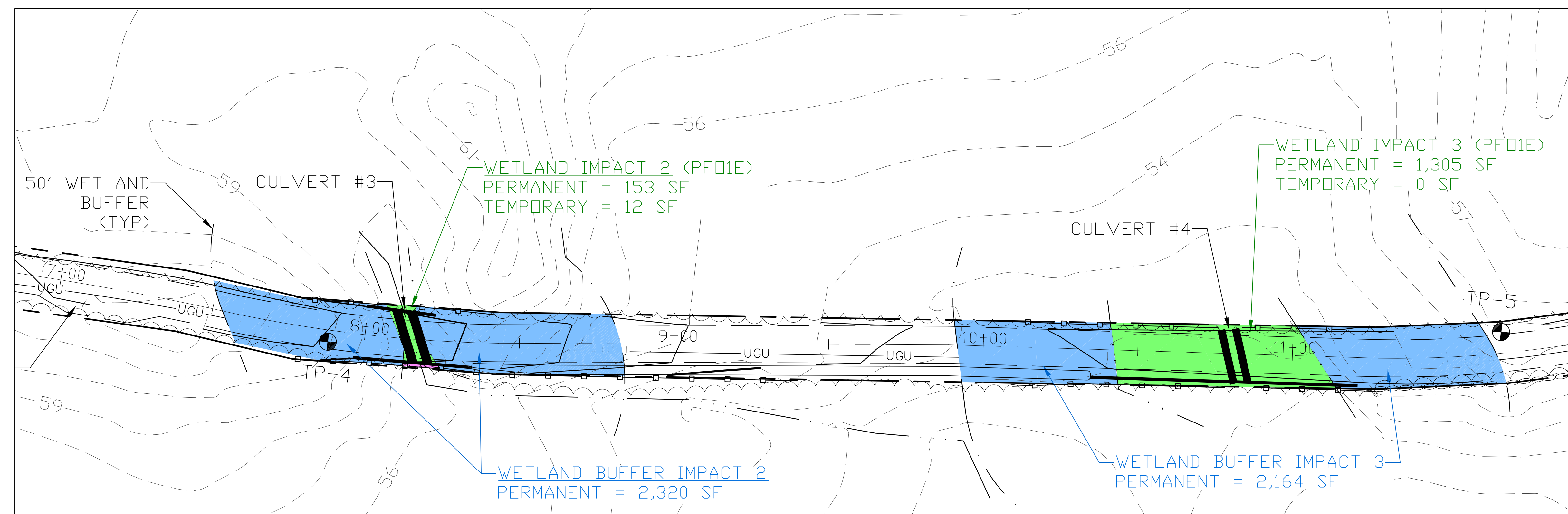
REVISED PER REVIEW COMMENTS	12/23/24
REVISIONS:	DATE:

PLAN FOR:
BACK ROAD
DOVER, NH

DATE:	NOV 12, 2024	SCALE:	1"=20'
PROJ. NO:	NH-1501	SHEET NO.	13



WETLAND IMPACT 1A & 1B



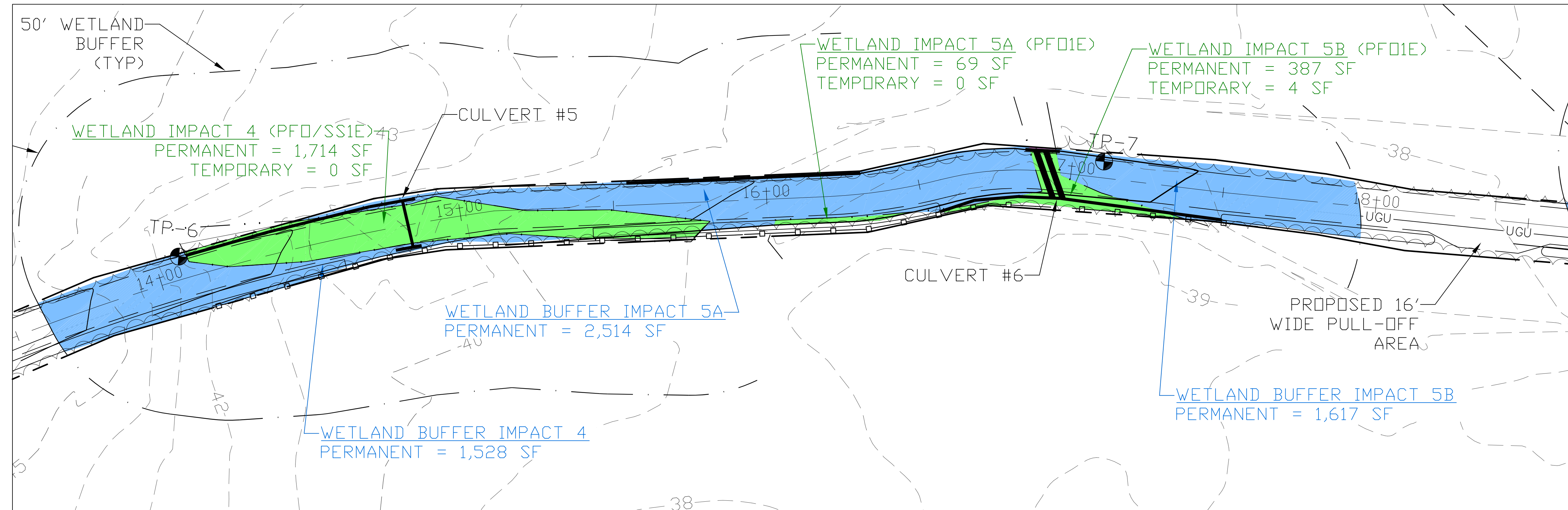
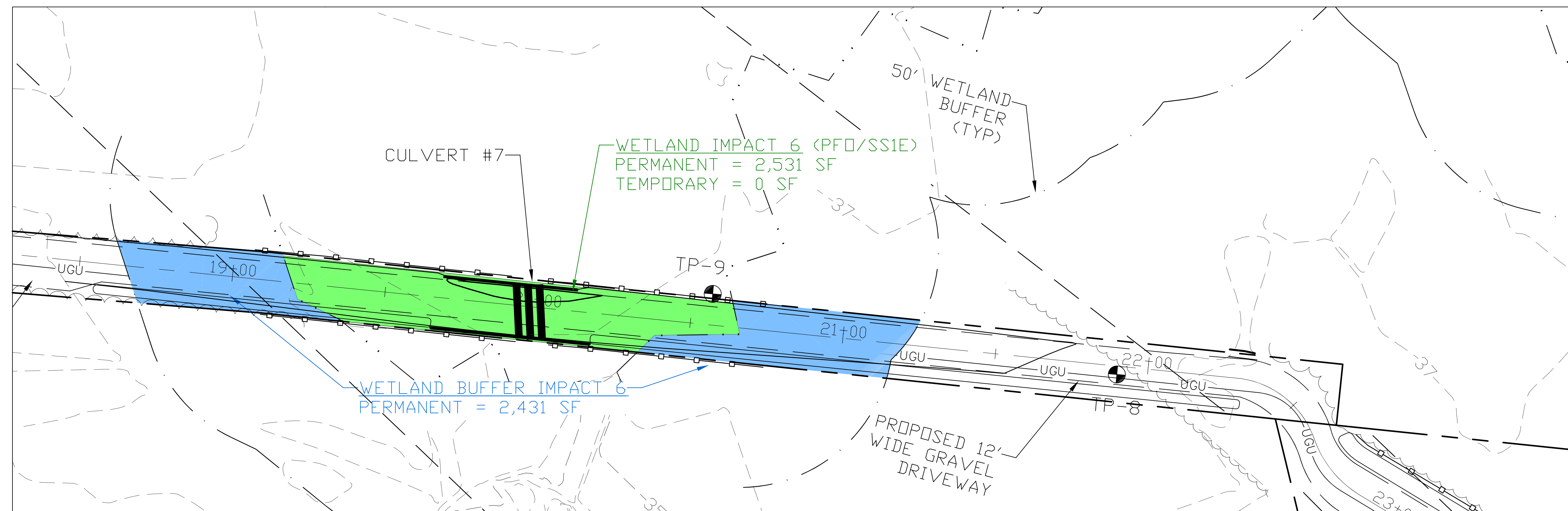
WETLAND IMPACT 2 & 3

PREPARED FOR:

HEATH J. TODD REVOCABLE TRUST
HEATH J. TODD, TRUSTEE
402 WEBBER HILL ROAD
KENNEBUNK, ME 04043



70 PORTSMOUTH AVE,
THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
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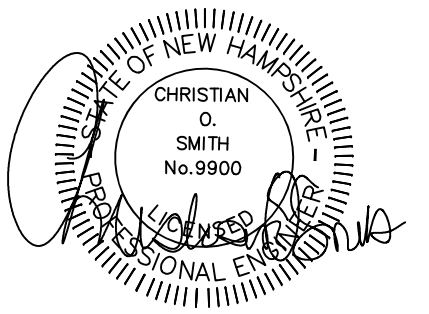
WETLAND IMPACT 4, 5A, & 5BWETLAND IMPACT 6

LEGEND

-  PERMANENT WETLAND IMPACT
-  TEMPORARY WETLAND IMPACT
-  PERMANENT WETLAND BUFFER IMPACT

COWARDIN WETLAND CLASSIFICATION LEGEND

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Z = INTERMITTENTLY EXPOSED/PERMANENT



GRAPHIC SCALE



(IN FEET)
inch = 20 ft.

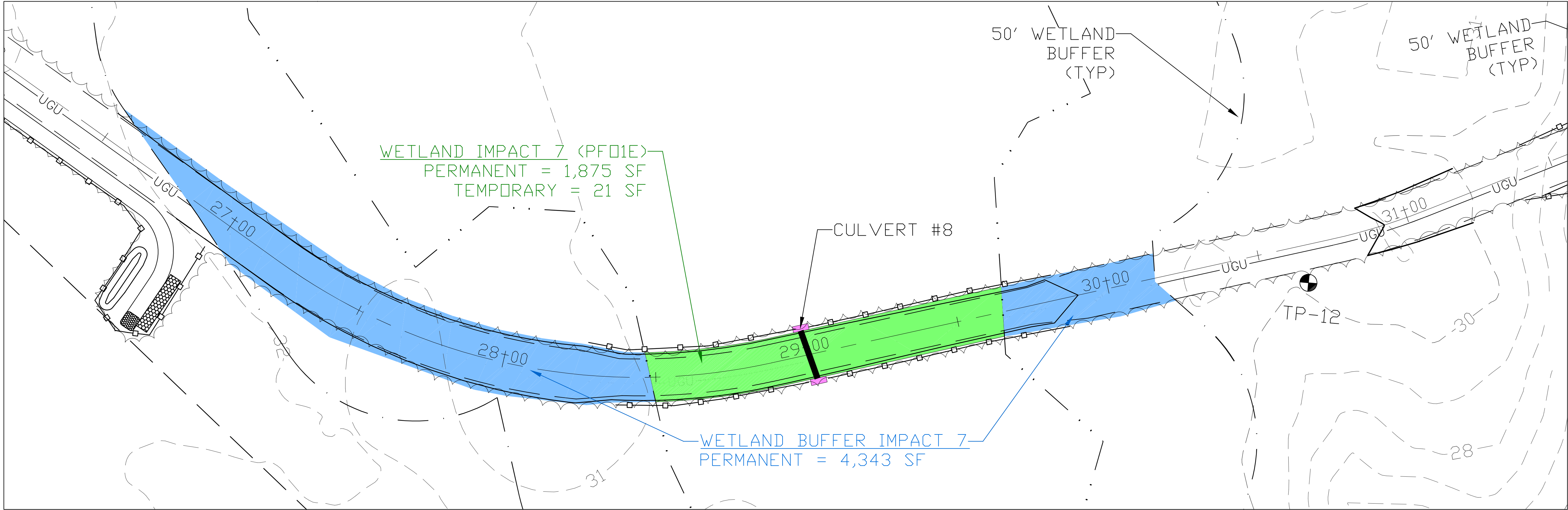
REVISED PER REVIEW COMMENTS	12/23/24
REVISIONS:	DATE:

WETLAND IMPACT PLAN 2

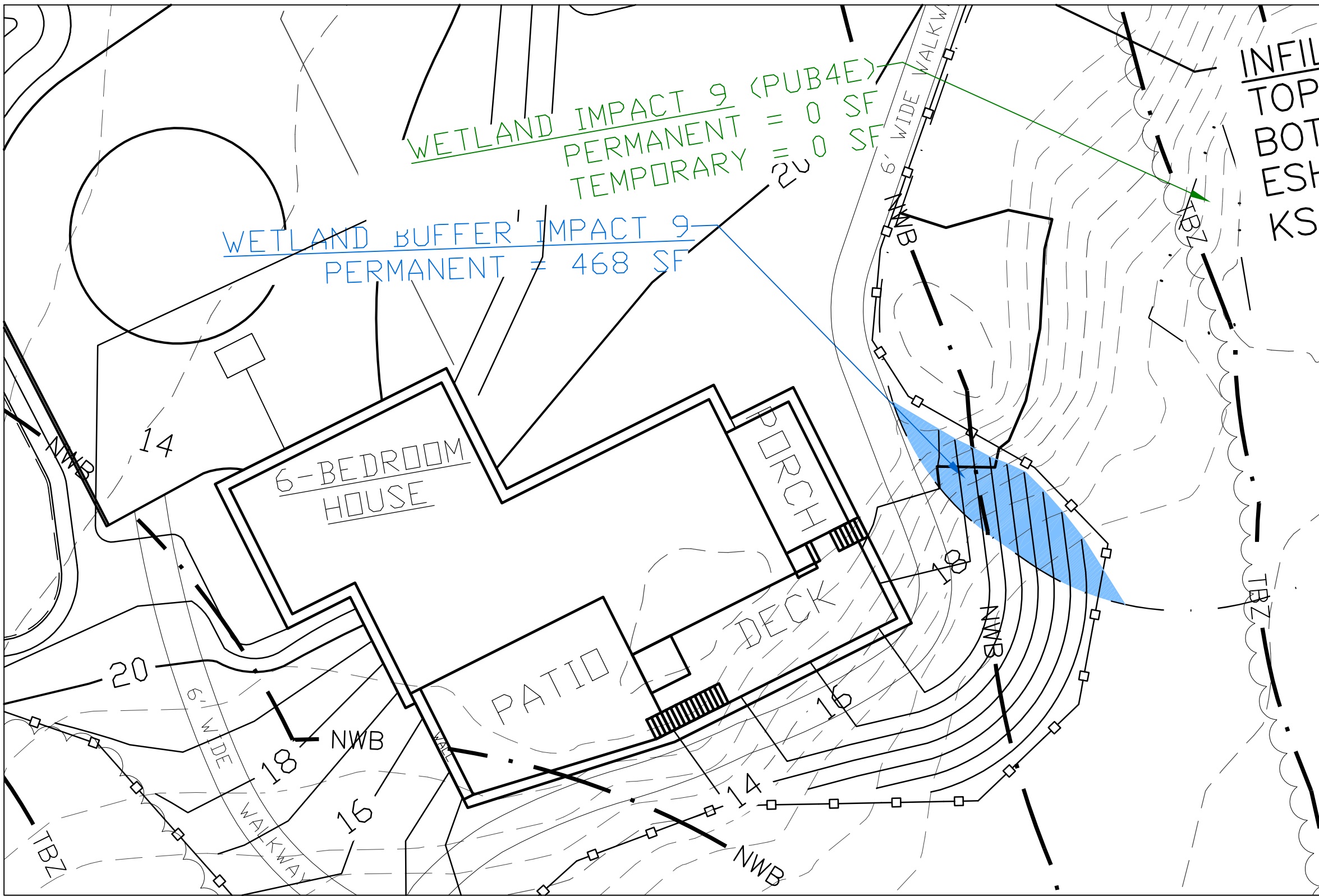
PLAN FOR:
BACK ROAD
DOVER, NH

DATE: NOV 12, 2024	SCALE: 1"=20'
PROJ. NO: NH-1501	SHEET NO. 14

* SEE PLAN & PROFILE SHEETS FOR CULVERT AND SWALE INFORMATION *



WETLAND IMPACT 7



WETLAND IMPACT 9

PREPARED FOR:
HEATH J. TODD REVOCABLE TRUST
HEATH J. TODD, TRUSTEE
402 WEBBER HILL ROAD
KENNEBUNK, ME 04043



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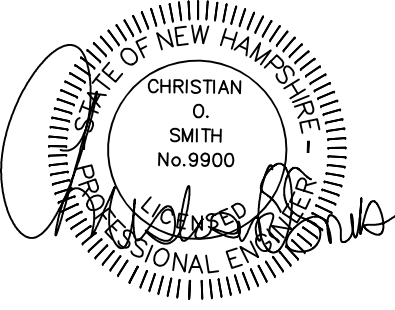


LEGEND

- PERMANENT WETLAND IMPACT
- TEMPORARY WETLAND IMPACT
- PERMANENT WETLAND BUFFER IMPACT

COWARDIN WETLAND CLASSIFICATION LEGEND

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- 1 = BROAD-LEAVED DECIDUOUS
- R3 = RIVERINE, UPPER PERENNIAL
- UB3 = UNCONSOLIDATED BOTTOM/MUD
- UB4 = UNCONSOLIDATED BOTTOM/ORGANIC
- E = SEASONALLY FLOODED/SATURATED
- Z = INTERMITTENTLY EXPOSED/PERMANENT



GRAPHIC SCALE



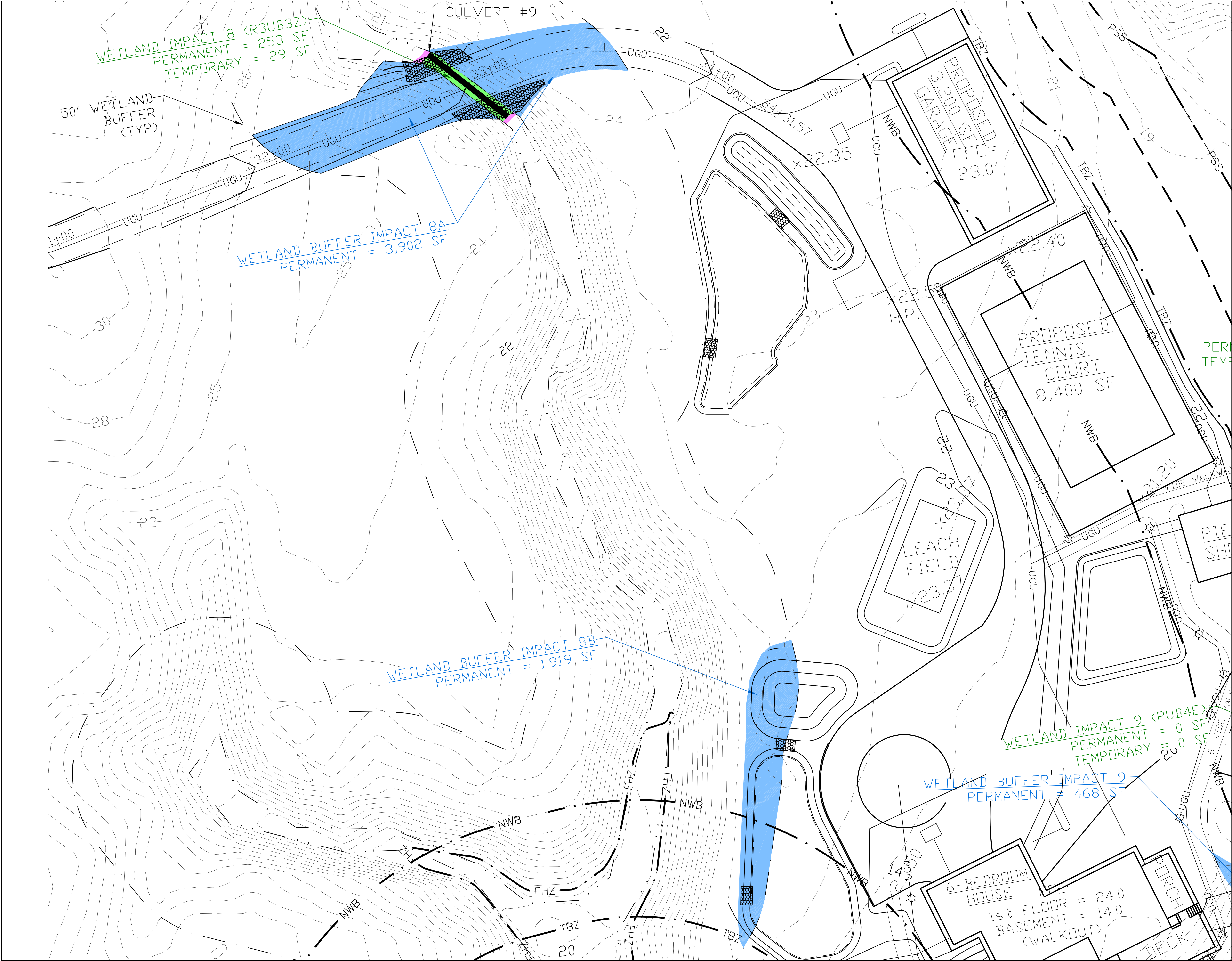
(IN FEET)
1 inch = 20 ft.

REVISED PER REVIEW COMMENTS	12/23/24
REVISIONS:	DATE:

WETLAND IMPACT PLAN 3

PLAN FOR:
BACK ROAD
DOVER, NH

DATE:	NOV 12, 2024	SCALE:	1"=20'
PROJ. NO:	NH-1501	SHEET NO.	15



PREPARED FOR:
HEATH J. TODD REVOCABLE TRUST
HEATH J. TODD, TRUSTEE
402 WEBBER HILL ROAD
KENNEBUNK, ME 04043



70 PORTSMOUTH AVE,
THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
FAX: 603-583-4863



* SEE PLAN & PROFILE SHEETS
FOR CULVERT AND SWALE
INFORMATION *

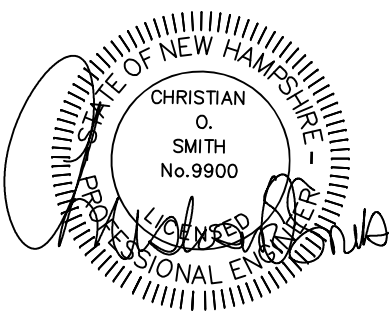
LEGEND

- PERMANENT WETLAND IMPACT
- TEMPORARY WETLAND IMPACT
- PERMANENT WETLAND BUFFER IMPACT

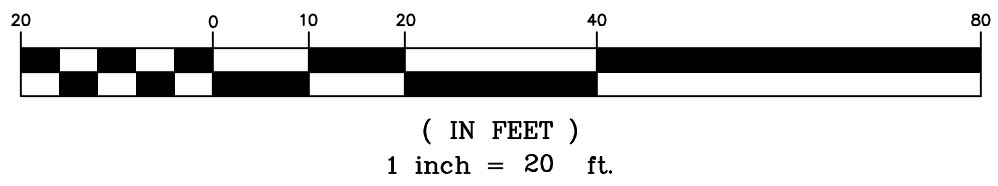
COWARDIN WETLAND CLASSIFICATION LEGEND

- P = PALUSTRINE
- SS = SCRUB-SHRUB
- FO = FORESTED
- 1 = BROAD-LEAVED DECIDUOUS
- R3 = RIVERINE, UPPER PERENNIAL
- UB3 = UNCONSOLIDATED BOTTOM/MUD
- UB4 = UNCONSOLIDATED BOTTOM/ORGANIC
- E = SEASONALLY FLOODED/SATURATED
- Z = INTERMITTENTLY EXPOSED/PERMANENT

WETLAND IMPACT 8



GRAPHIC SCALE

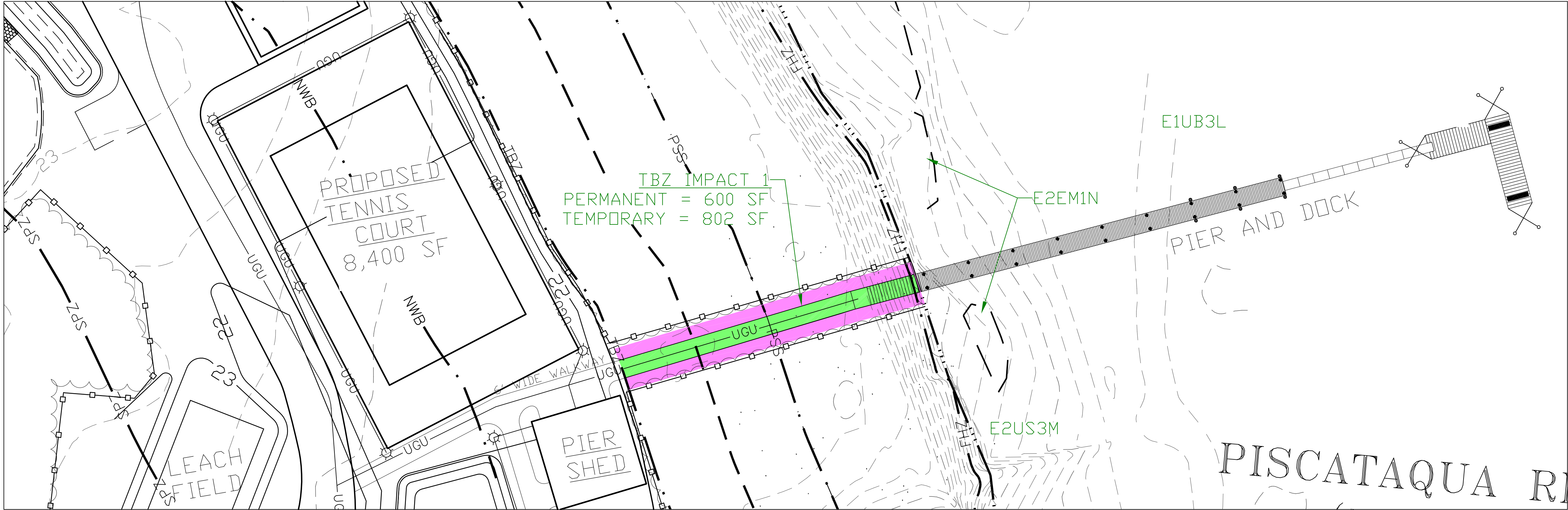


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REVISIONS:	DATE:

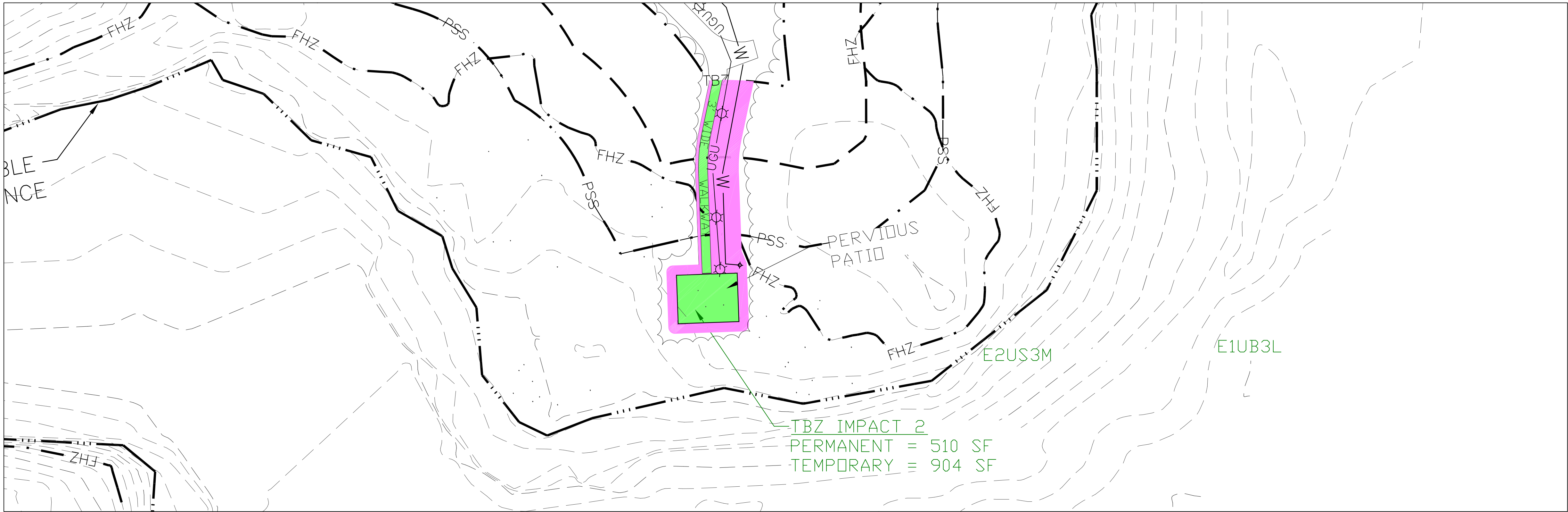
WETLAND IMPACT PLAN 4

PLAN FOR:
BACK ROAD
DOVER, NH

DATE:	NOV 12, 2024	SCALE:	1"=20'
PROJ. NO:	NH-1501	SHEET NO.	16



TIDAL BUFFER ZONE IMPACT 1



TIDAL BUFFER ZONE IMPACT 2

NOTE
1. SHRUBS AND GROUND COVER IN THE TIDAL BUFFER ZONE WORK AREAS SHALL BE DOCUMENTED PRIOR TO DISTURBANCE THROUGH PHOTOS AND WRITTEN NOTES. ALL DISTURBED SHRUBS AND GROUND COVER SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS.

PREPARED FOR:
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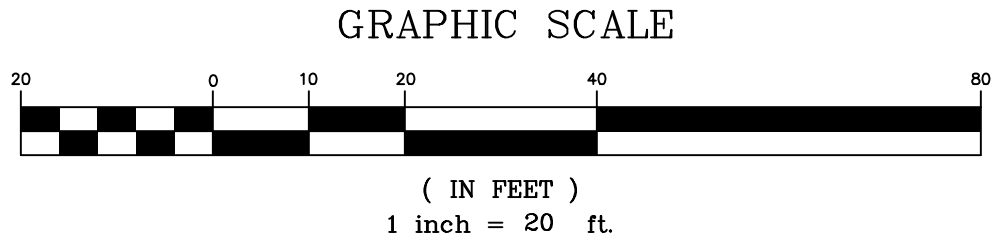
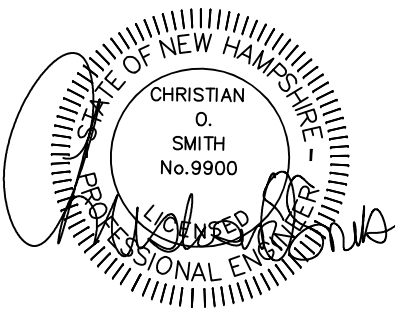
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- LEGEND
- PERMANENT TIDAL BUFFER IMPACT
 - TEMPORARY TIDAL BUFFER IMPACT

- COWARDIN WETLAND CLASSIFICATION LEGEND
- E1 = ESTUARINE, SUBTIDAL
 - UB3 = UNCONSOLIDATED BOTTOM/MUD
 - E2 = ESTUARINE, INTERTIDAL
 - US3 = UNCONSOLIDATED SHORE/MUD
 - EM1 = EMERGENT/PERSISTENT
 - L = SUBTIDAL
 - M = IRREGULARLY EXPOSED
 - N = REGULARLY EXPOSED



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REVISIONS:	DATE:

TIDAL BUFFER IMPACT PLAN

PLAN FOR: BACK ROAD DOVER, NH			
DATE:	NOV 12, 2024	SCALE:	1"=20'
PROJ. NO:	NH-1501	SHEET NO.	17

PREPARED FOR:
HEATH J. TODD REVOCABLE TRUST
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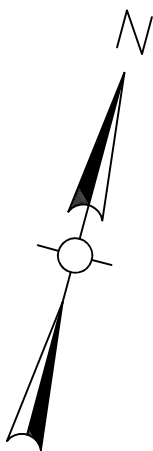
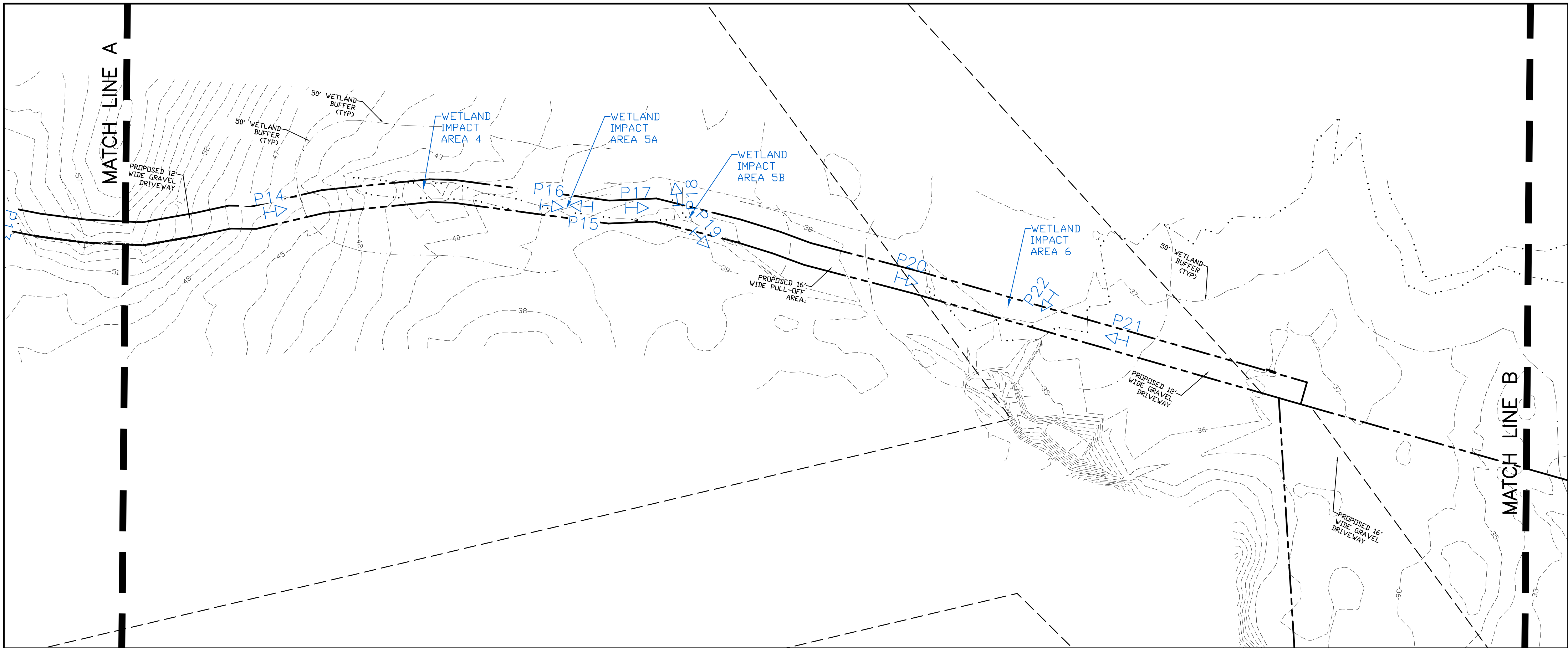
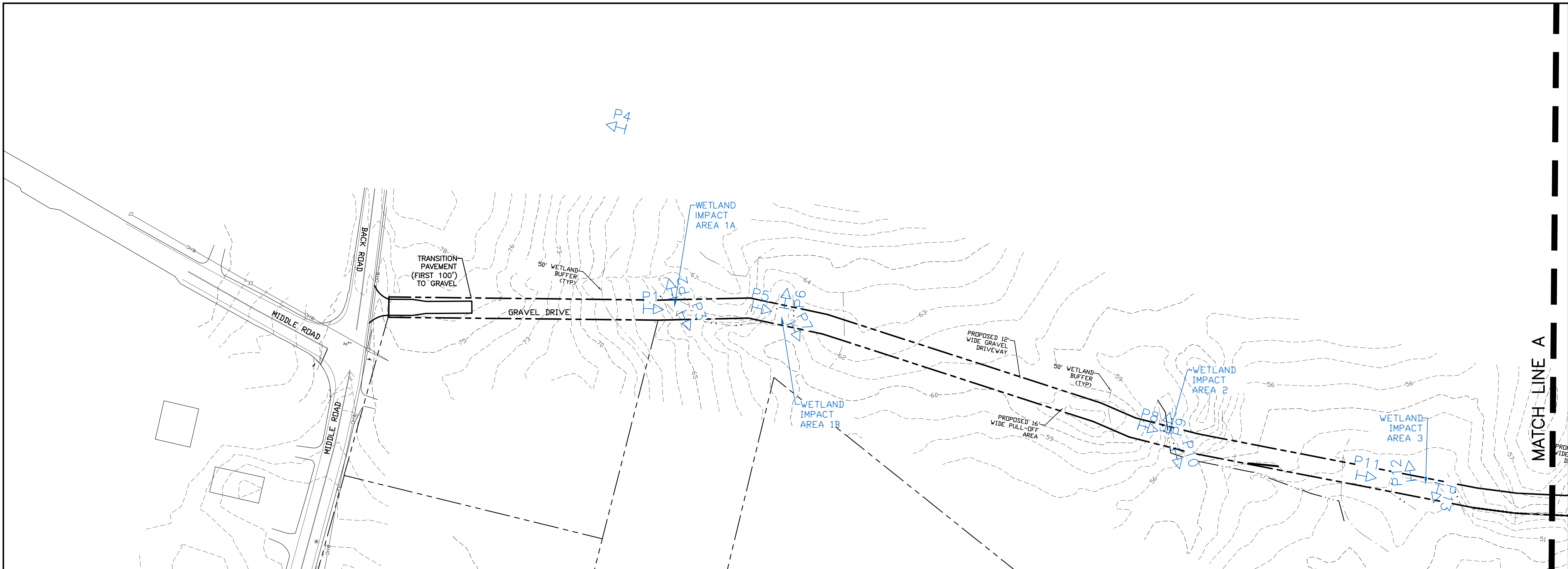


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LEGEND

- FRESHWATER WETLAND BOUNDARY
- FRESHWATER WETLAND / STREAM BUFFER
- PROPERTY LINE
- HOTL / REFERENCE LINE
- FHZ FLOOD HAZARD ZONE
- PSS 50' NHDES PRIMARY STRUCTURE SETBACK
- TBZ 100' NHDES TIDAL BUFFER ZONE
- NWB 150' NHDES NATURAL WOODLAND BUFFER SETBACK
- SPZ 250' NHDES PROTECTED SHORELAND ZONE
- NATURAL WOODLAND AREA REQUIREMENT

P1 PHOTO LOCATION (WETLAND CROSSINGS)



GRAPHIC SCALE

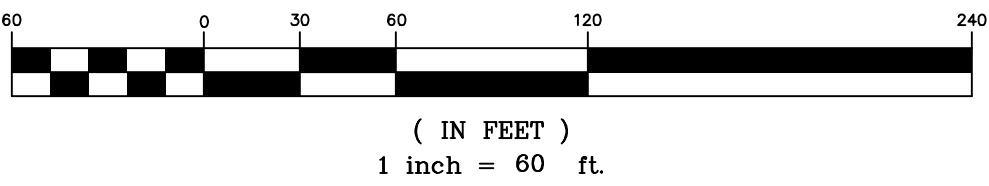
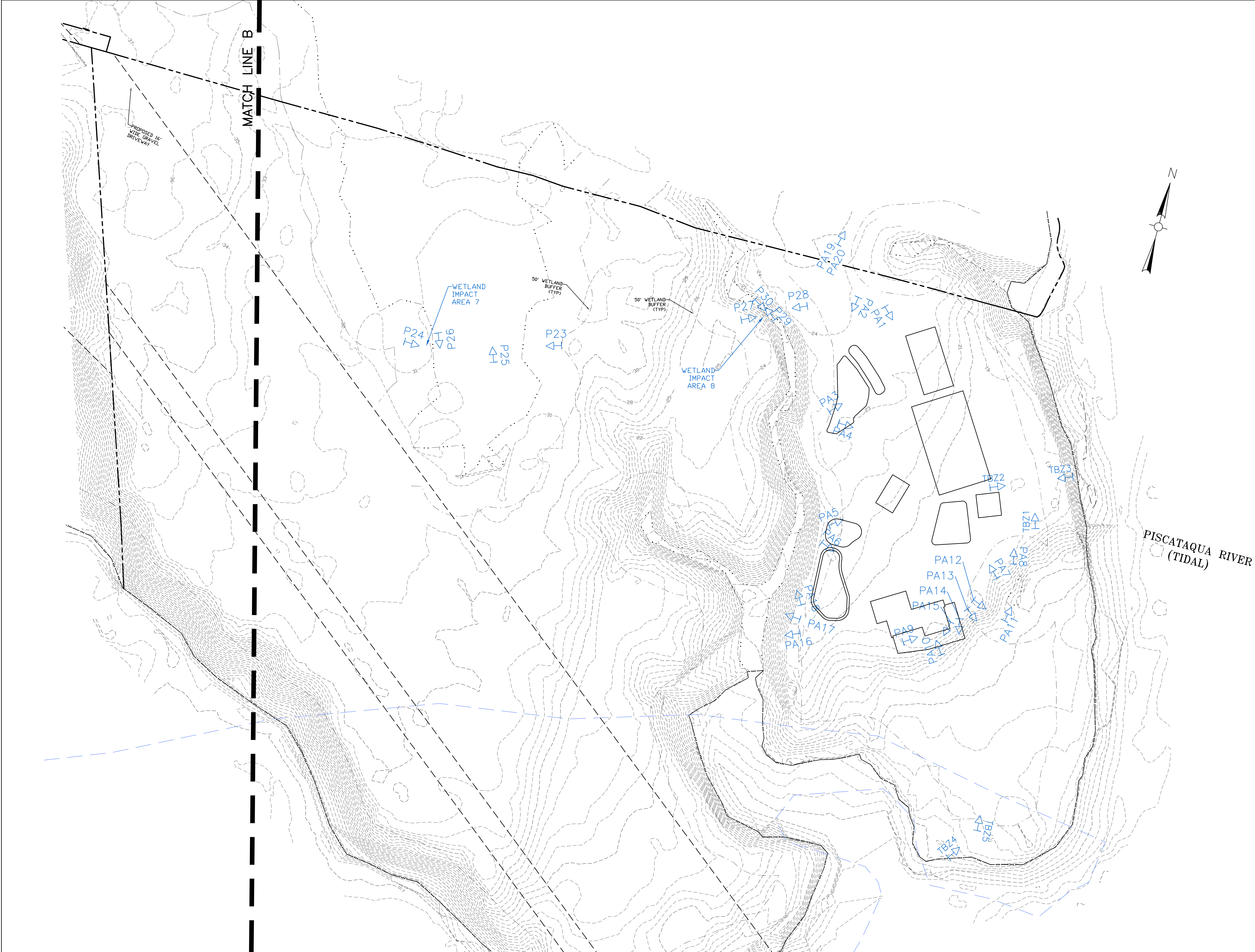


PHOTO LOG PLAN

PLAN FOR:
BACK ROAD
DOVER, NH

DATE:	JUNE 28, 2024	SCALE:	1"=60'
PROJ. NO:	NH-1501	SHEET NO.	18



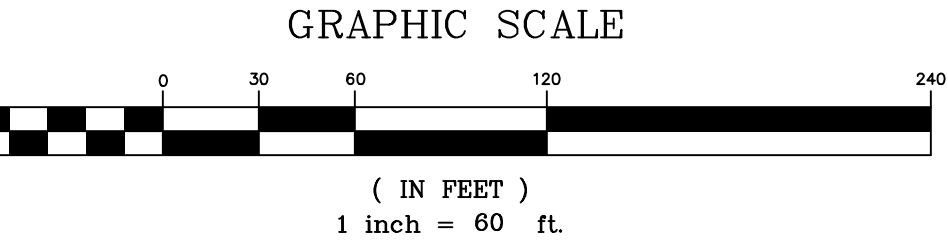
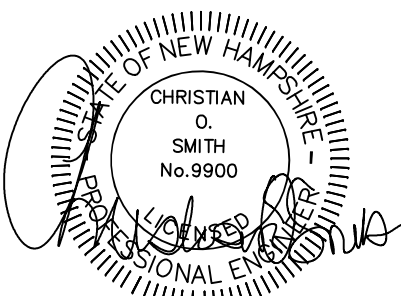
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- LEGEND**
- FRESHWATER WETLAND BOUNDARY
 - FRESHWATER WETLAND / STREAM BUFFER
 - PROPERTY LINE
 - HOTL / REFERENCE LINE
 - FHZ --- FLOOD HAZARD ZONE
 - PSS --- 50' NHDES PRIMARY STRUCTURE SETBACK
 - TBZ --- 100' NHDES TIDAL BUFFER ZONE
 - NWB --- 150' NHDES NATURAL WOODLAND BUFFER SETBACK
 - SPZ --- 250' NHDES PROTECTED SHORELAND ZONE
 - [Hatched Box] NATURAL WOODLAND AREA REQUIREMENT

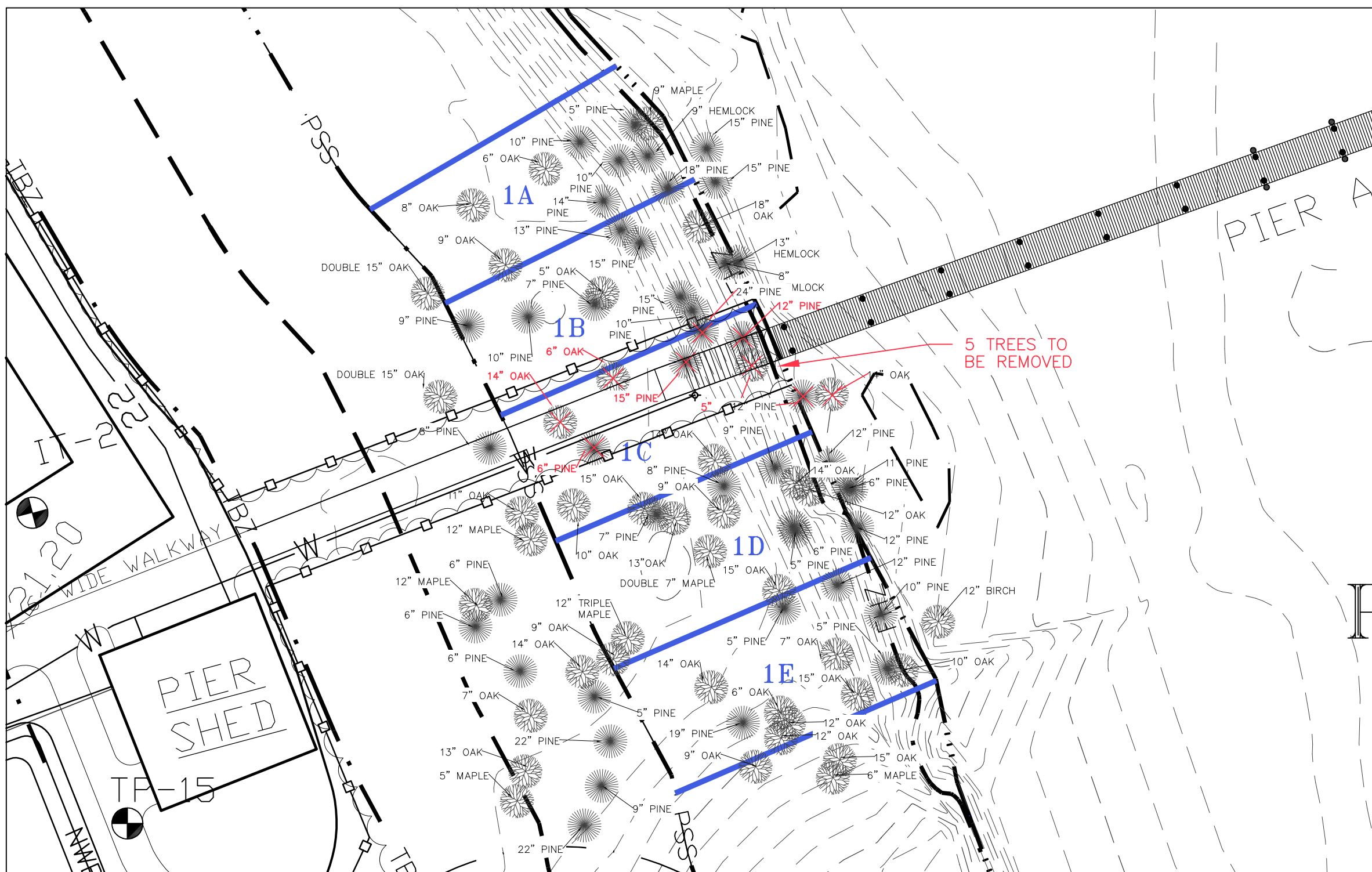
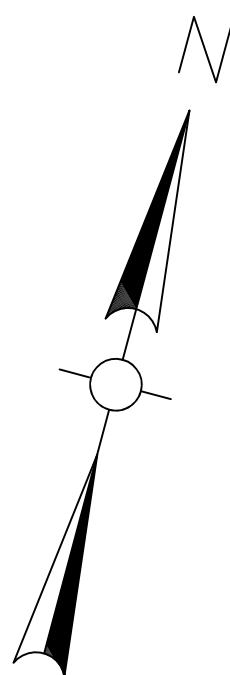
- P1** PHOTO LOCATION (WETLAND CROSSINGS)
- PA2** PHOTO LOCATION (PROJECT AREAS)
- TBZ3** PHOTO LOCATION (TBZ AREAS)



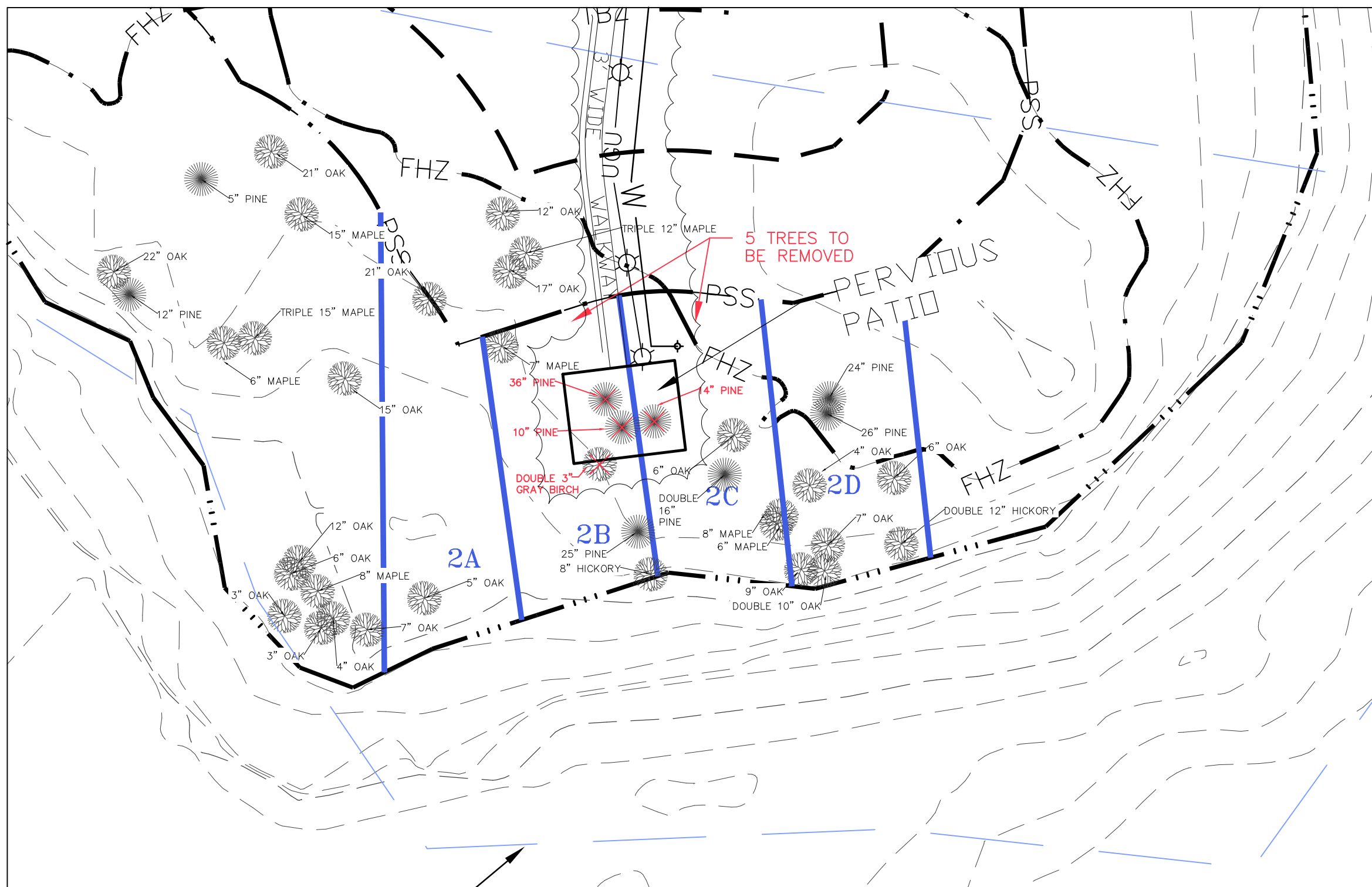
REVISED PER REVIEW COMMENTS	12.23.24
REVISED PER REVIEW COMMENTS	11.12.24
REVISIONS:	DATE:

PHOTO LOG PLAN

PLAN FOR: BACK ROAD DOVER, NH			
DATE:	AUGUST 2, 2024	SCALE:	1"=60'
PROJ. NO:	NH-1501	SHEET NO.	19



TREE REMOVAL AREA #1



TREE REMOVAL AREA #2

GRID AREA	TREES TO REMAIN
1A	*NO TREES REMOVED*
1B	*NO TREES REMOVED*
1C	10" OAK = 10 POINTS 14" OAK = 15 POINTS TOTAL = 25 POINTS
1D	*NO TREES REMOVED*
1E	*NO TREES REMOVED*

GRID AREA	TREES TO BE REMOVED
1C	5" OAK 6" OAK 6" PINE 12" PINE 14" OAK 15" PINE 24" PINE

GRID AREA	TREES TO REMAIN
2A	*NO TREES REMOVED*
2B	7" MAPLE = 10 POINTS 8" HICKORY = 10 POINTS 25" PINE = 15 POINTS TOTAL = 35 POINTS
2C	6" OAK = 5 POINTS 6" MAPLE = 5 POINTS 8" MAPLE = 10 POINTS DOUBLE 16" PINE = 30 POINTS TOTAL = 50 POINTS
2D	*NO TREES REMOVED*

GRID AREA	TREES TO BE REMOVED
2B	3" BIRCH (DOUBLE) 10" PINE 35" PINE
2C	14" PINE

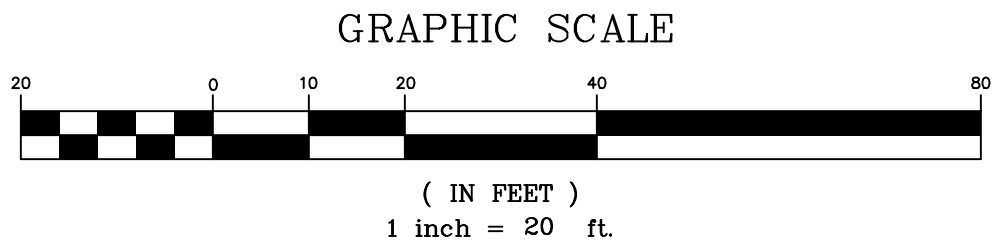
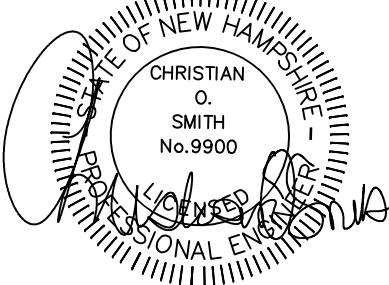
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LEGEND

- HOTL / REFERENCE LINE
- FHZ FLOOD HAZARD ZONE
- PSS 50' NHDES PRIMARY STRUCTURE SETBACK
- TBZ 100' NHDES TIDAL BUFFER ZONE
- 1A GRID BOUNDARY/NUMBER
- X" TREE X" TREE TREE TO REMAIN
- X" TREE X" TREE TREE TO BE REMOVED WITHIN 50-FOOT REFERENCE LINE



REVISED PER REVIEW COMMENTS	12.23.24
REVISED PER REVIEW COMMENTS	11.12.24
REVISIONS:	DATE:

VEGETATION MANAGEMENT PLAN

PLAN FOR:
BACK ROAD
DOVER, NH

DATE: AUGUST 2, 2024	SCALE: 1"=20'
PROJ. NO: NH-1501	SHEET NO. 20

PLAN INTENT:

THE INTENT OF THIS PLAN IS TO PROVIDE AN APPROVED LEACH FIELD TO HANDLE THE LOADING FOR A 8 BEDROOM SINGLE-FAMILY RESIDENCE. THE HOUSE, GARAGE, AND PIER SHED WILL UTILIZE GRAVITY FLOW TO TWO SEPTIC TANKS WITH THE SECOND TANK TO PUMP INTO THE D-BOX.

INFILTRATOR NOTE

INFILTRATOR WATER TECHNOLOGIES TREATMENT SYSTEMS ARE APPROVED BY NHDES IN ACCORDANCE WITH PART ENV-WH 1004. THIS SYSTEM IS DESIGNED IN ACCORDANCE WITH THE NH DESIGN AND INSTALLATION MANUAL FOR QUICK4 CHAMBERS IN NEW HAMPSHIRE.

SITE NOTES

1. GRADING SHOWN IS SUGGESTED AND PRIMARILY FOR THE SEPTIC SYSTEM. ADDITIONAL GRADING IS AT THE DISCRETION OF THE CONTRACTOR AND/OR OWNER. MINIMUM FILL EXTENSIONS AND SLOPE REQUIREMENTS MUST BE MAINTAINED.

2. NH-DES REQUIRES A PERIMETER DRAIN IF THE SLAB IS LESS THAN 18" TO THE SHWT. CERTAIN TOWNS REQUIRE A PERIMETER DRAIN AT ALL TIMES - CHECK LOCAL REGULATIONS. BEALS ASSOCIATES, PLLC, RECOMMENDS A PERIMETER DRAIN BE INSTALLED REGARDLESS.

3. BEST MANAGEMENT PRACTICES ARE TO BE FOLLOWED DURING ALL CONSTRUCTION TO PREVENT SITE ALTERATION THAT MAY CAUSE EROSION AND/OR DRAINAGE ISSUES.

4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONSTRUCT THE FOUNDATION IN SUCH A MANNER AS TO PREVENT WATER INFILTRATION IN THE BASEMENT.

5. PER ENV-WH 1003.13 (A)(3) THERE ARE NO KNOWN CEMETERIES LOCATED WITHIN 100' OF ANY PART OF THE EFFLUENT DISPOSAL SYSTEM.

THIS PLAN IS NOT A SURVEY

THE BUILDER/SITE CONTRACTOR IS RESPONSIBLE TO CONFIRM THE ZONING DIMENSIONAL REQUIREMENTS AND SETBACK LINE REQUIREMENTS PRIOR TO INITIATING CONSTRUCTION OF THE PROPOSED HOUSE AND SEPTIC SYSTEM. THE ZONING ORDINANCE OF THE MUNICIPALITY IS TO BE COMPLIED WITH. THE BUILDER/SITE CONTRACTOR IS ALSO RESPONSIBLE TO CONTACT THE MUNICIPALITY REGARDING INSPECTIONS PRIOR TO AND DURING CONSTRUCTION, I.E. LOCATION AND BED-BOTTOM INSPECTIONS. THIS PLAN IS NOT INTENDED TO BE USED AS A SITE PLAN.

GENERAL NOTES

1. THIS PLAN DOES NOT REPRESENT A PROPERTY BOUNDARY SURVEY OR ENGINEERED SITE PLAN.

EVERY ATTEMPT HAS BEEN MADE TO ACCURATELY IDENTIFY THE RELEVANT PROPERTY LINES DEPICTED ON THIS PLAN. HOWEVER, SEPTIC SYSTEM PLANS ARE NOT INTENDED FOR BUILDING LAYOUT. A LICENSED LAND SURVEYOR SHOULD BE RETAINED TO LAY OUT ALL BUILDINGS ON THE SITE AND VERIFY THAT THEY WILL BE IN COMPLIANCE WITH ALL APPLICABLE LOCAL ZONING REQUIREMENTS PRIOR TO CONSTRUCTION.

2. ANY DISCREPANCY BETWEEN THESE PLANS AND THE APPARENT FIELD CONDITIONS TO BE REPORTED TO THE DESIGNER PRIOR TO CONSTRUCTION.

3. BOUNDARY INFORMATION FROM ELECTRONIC SURVEY PLAN BY BERRY SURVEY & ENGINEERING.

4. CHAMBERS TO BE QUICK4 STANDARD CHAMBERS IN A CLUSTER DISTRIBUTED BY INFILTRATOR SYSTEMS, INC. OF OLD SAYBROOK, CT OR EQUAL, TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

5. ALL CONCRETE PRODUCTS ARE TO BE MANUFACTURED BY ALFOSS, INC. OF FARMINGTON, N.H. OR EQUAL.

6. ALL SEPTIC TANKS MUST HAVE BAFFLES AT INLETS, OUTLETS, AND BETWEEN COMPARTMENTS.

7. CONCRETE STRUCTURES TO BE WATER TIGHT. ALL JOINTS, INLETS, OUTLETS, ETC. TO BE SEALED WITH NON-SHRINK GROUT - "WATER PLUG", "BLOCK BOND", OR EQUAL. PER ENV-WH 1008.04(C). CONCRETE STRUCTURES INSIDE WELL RADIUS MUST BE SEALED TO PREVENT INFILTRATION AND/OR EXFILTRATION.

8. SEPTIC TANK MUST BE A MINIMUM OF 5 FEET FROM FOUNDATION DRAIN. CHAMBERS TO BE A MINIMUM OF 15 FEET FROM FOUNDATION DRAIN. DISCHARGE OF FOUNDATION DRAIN OUTFALL TO BE A MINIMUM OF 25 FEET FROM SEPTIC TANK AND CHAMBERS.

9. 4 INCH GRAVITY SEWER TO BE SDR 35 OR SCHEDULE 40 PVC, WHERE WELL IS <75' FROM SEPTIC TANK, 4" GRAVITY SEWER TO BE SDR 26. FORCE MAINS TO BE SDR 26, SCHEDULE 40 PVC, OR POLYETHYLENE PIPE ("POLY PIPE"), 100-150 PSI RATING.

10. MINIMUM PIPE SLOPES: BUILDING TO TANK = 2%, TANK TO D-BOX = 1%

11. DISTRIBUTION BOX SHALL HAVE FLOW EQUALIZER OUTLET FITTINGS.

12. PROVIDE A MINIMUM OF A 2" DROP BETWEEN DISTRIBUTION BOX OUTLET AND CHAMBER INLET.

13. INLET/OUTLET INTERCONNECTIONS SHALL EXTEND NO MORE THAN 4" INTO CHAMBER BUT NO LESS THAN 2" INTO CHAMBER.

14. SYSTEM MUST BE INSPECTED AND APPROVED BY NH-DES PRIOR TO BACKFILLING.

15. EFFLUENT DISPOSAL AREA MAY BE REBUILT IN PLACE, SHOULD FAILURE OCCUR, PROVIDED THAT THE REQUIREMENTS OF ADMINISTRATIVE RULE ENV.WS 1004.18 ARE MET.

16. CHAMBERS MUST BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUFACTURER'S INSTALLATION MANUAL.

SITE PREPARATION AND FILL

1. CHECK DESIGN INTENT AND VERIFY THE ELEVATION OF EXISTING GROUND (UPSLOPE SIDE) BEFORE DISTURBING SITE. THE "DESIGN INTENT" MUST BE MAINTAINED.

2. REMOVE ALL TREES, BRUSH, BOULDERS, AND DEBRIS FROM THE AREA TO BE FILLED. STUMPS NOT TO BE BURIED WITHIN 75' OF EFFLUENT DISPOSAL AREA, UNLESS UPSLOPE (3% MIN.).

3. REMOVE TOPSOIL, LEAVE SUBSOIL IN PLACE, DO NOT COMPACT SUBSOIL WITH MACHINERY. SCARIFY WITH TEETH OF EXCAVATOR BEFORE PLACING FILL. SCARIFY PARALLEL WITH CONTOURS, WORKING FROM THE CENTER OUTWARD. SOIL MUST BE DRY PRIOR TO PREPARATION.

4. MATERIAL SPECIFICATIONS:
TOPSOIL: 6" OF CLEAN LOAM TO BE PLACED AS BLANKET ON TOP AND SIDE SLOPES.
CLEAN FILL: PERMEABLE, FREE OF ROOTS, DEBRIS, ORGANICS, AND STONES GREATER THAN 3".
SEPTIC SAND: FILL TO RAISE THE SYSTEM AND FOR THE SIDE SLOPES AS SHOWN ON THE SCHEMATIC "FILL SECTION A-A" TO MEET THE FOLLOWING SPECIFICATION: MEDIUM TO COARSE TEXTURED SAND, NO GREATER THAN 5% PASSING THE NUMBER 200 SIEVE, AND NO PARTICLES LARGER THAN 3".
BEDDING SAND: USE CLEAN COARSE SAND MEETING ASTM STANDARD C-33 (CONCRETE SAND).
BEDDING SAND USED BETWEEN, 6" MINIMUM AROUND, ABOVE & BELOW CHAMBERS.

5. SAND FILL TO BE PUSHED ONTO PREPARED SURFACE FROM THE SIDE, DO NOT ALLOW EQUIPMENT ON THE SCARIFIED SOIL SURFACE. FILL BETWEEN CHAMBERS TO BE CAREFULLY PLACED WITH EXCAVATOR.

6. PLACE FILL IN 12" LOOSE LAYERS USING A TRACK TYPED TRACTOR WITH BLADE. ALWAYS KEEP A MINIMUM OF 9" OF FILL MATERIAL BENEATH TRACKS OF TRACTOR TO MINIMIZE COMPACTION OF NATURAL SOIL. EACH LAYER SHALL BE SPREAD IN UNIFORM THICKNESS PRIOR TO PLACING NEXT LAYER. CONTINUOUS GRADING AND SHAPING SHALL BE CARRIED OUT TO ASSURE UNIFORM DENSITY THROUGHOUT EACH LAYER.

7. ENTIRE FILLED AREA SHOULD BE COVERED WITH TOPSOIL, SEEDED, AND MULCHED IMMEDIATELY AFTER BACKFILLING TO PREVENT EROSION.

8. BACKFILL DEPTH OVER SYSTEM TO BE 12"-24", CROWN 2% MIN. TO PROVIDE RUNOFF. SYSTEM BACKFILLED WITH MORE THAN 18" MUST BE VENTED.

OPERATION AND MAINTENANCE

1. IT IS THE OWNER'S RESPONSIBILITY TO MAINTAIN THIS SYSTEM IN ACCORDANCE WITH THESE "OPERATION AND MAINTENANCE" INSTRUCTIONS.

2. EVERY SYSTEM'S DESIGN CAPACITY IS LIMITED. CAREFUL AND REASONABLE WATER USE IS REQUIRED TO MAXIMIZE THE SYSTEM'S LIFE.

3. THIS SYSTEM MUST BE OPERATED WITHIN ITS DESIGN CAPACITY. THE AVERAGE DAILY FLOW TO THE EFFLUENT DISPOSAL AREA SHOULD BE NO MORE THAN 1/2 ITS APPROVED DESIGN CAPACITY.

4. SYSTEM IS NOT DESIGNED TO HANDLE WASTE FROM A SEWAGE EJECTOR PUMP.

5. SYSTEM IS NOT DESIGNED FOR A GARBAGE DISPOSAL.

6. DO NOT DISPOSE OF GREASE, CHEMICALS, SOLVENTS ETC. VIA THIS SYSTEM.

7. IT IS NOT RECOMMENDED THAT THE BACKWASH FROM WATER SOFTENERS BE DISCHARGED INTO THE SEPTIC SYSTEM. CURRENT NH-DES RULES ALLOW THAT WATER SOFTENER BACKWASH BE DISCHARGED TO A SEPARATE DRYWELL. NO DESIGN OR APPROVAL IS REQUIRED FOR THIS.

8. SEPTIC TANK MUST BE PUMPED BY A LICENSED HAULER AT LEAST EVERY TWO YEARS. KEEP PUMPING RECEIPTS AS PROOF OF MAINTENANCE. CHECK TANK YEARLY. IF SLUDGE AND SURFACE SCUM EXCEED 2/3 OF LIQUID DEPTH, HAVE TANK PUMPED.

9. DO NOT REMOVE SNOW, ALLOW VEHICULAR, NOR LIVESTOCK TRAVEL OVER COMPONENTS OF SYSTEM. NOT DESIGNED TO WITHSTAND AN H-20 WHEEL LOAD. COMPONENTS LOCATED UNDER PAVEMENT WILL BE PROVIDED ACCESS USING RISERS AND MANHOLE COVERS CAPABLE OF WITHSTANDING TRAFFIC.

10. THE OWNER SHOULD KEEP A COPY OF THIS PLAN WITH HIS/HER IMPORTANT DOCUMENTS FOR FUTURE REFERENCE. THIS PLAN SHOULD BE PROVIDED TO FUTURE OWNER. COPIES ARE AVAILABLE FROM THIS OFFICE.

11. IF THIS DESIGN UTILIZES A ZABEL TYPE FILTER, FILTER SHOULD BE CLEANED REGULARLY. REFER TO FILTER'S OWNER MANUAL FOR RECOMMENDED FREQUENCY OF CLEANING.

NITRATE SETBACKS:

PROPOSED DESIGN FLOW = 900 GPD

PER NH-DES ENV-WH 1008.05, FOR DESIGN FLOWS LESS THAN 1,000 GPD, MINIMUM SETBACK DISTANCES FROM PROPERTY LINES:

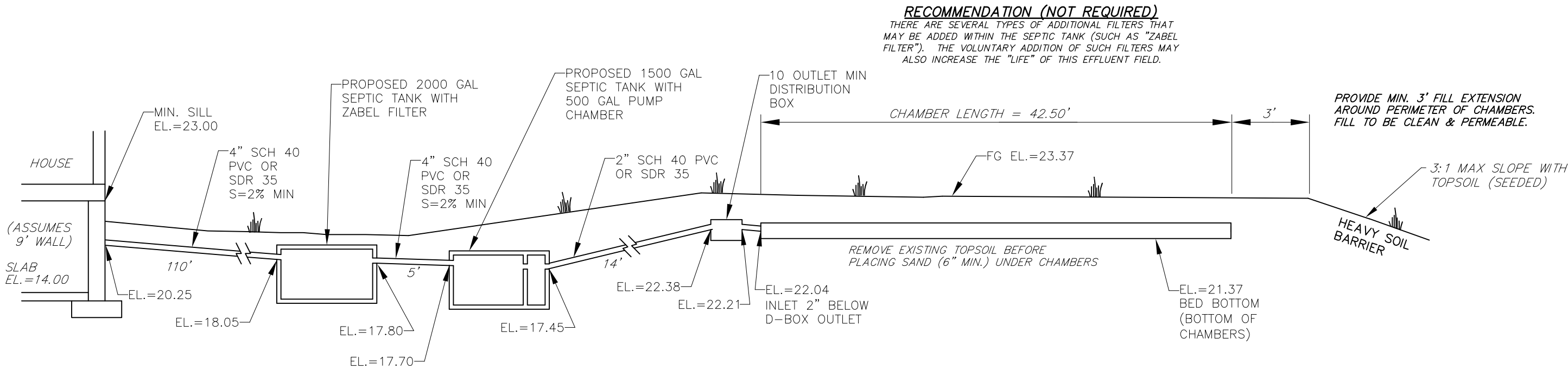
- 50' HYDRAULICALLY DOWN-GRADIENT
- 25' HYDRAULICALLY SIDE-GRADIENT
- 12' HYDRAULICALLY UP-GRADIENT

ESHWT ELEVATION CALCS.

ORIGINAL GRADE @ HIGHEST POINT = 21.54',
ESHWT = 32" OR 2.67',
ESHWT ELEVATION = 18.87',
MIN. BED BOTTOM = 21.37'

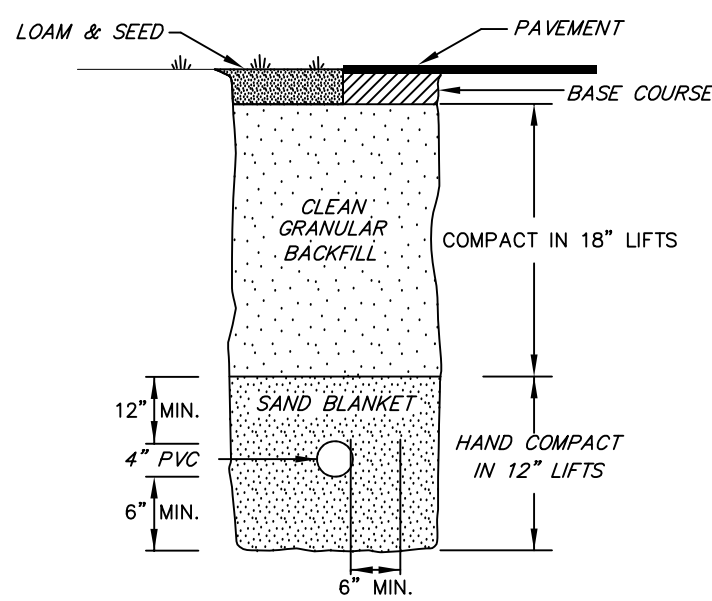
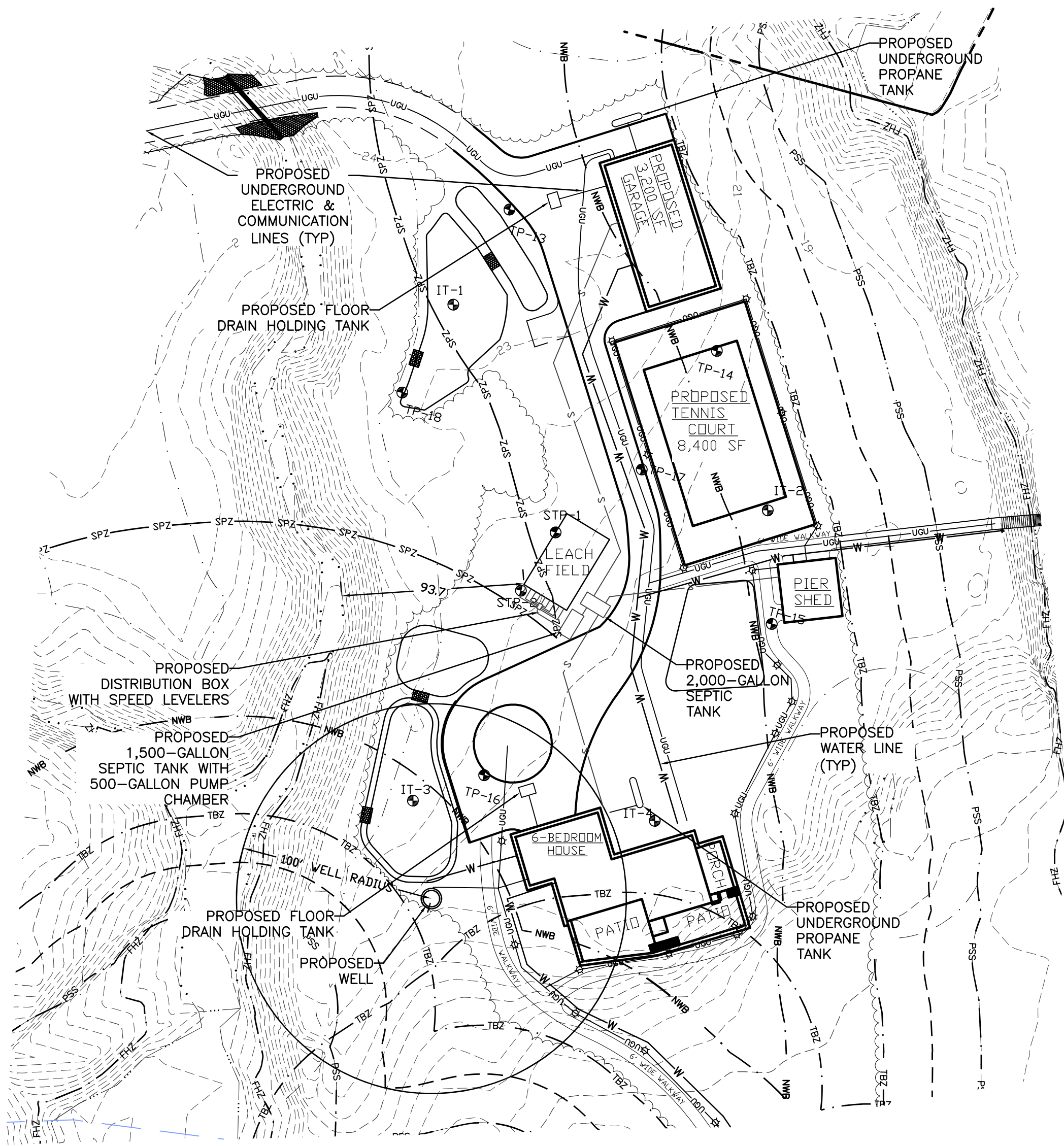
CHAMBER LAYOUT:

SYSTEM TO INCLUDE 9 ROWS OF 10 CHAMBERS WITH EACH ROW TO CONTAIN AN END CAP ON BOTH ENDS IN A CLUSTER CONFIGURATION.



SYSTEM PROFILE

N.T.S.

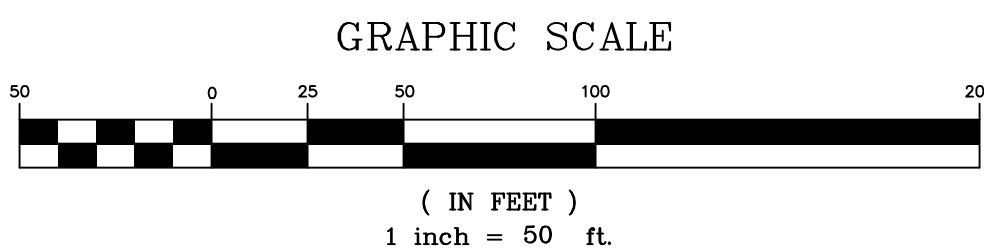


NOTES:

1. MINIMUM COVER SHALL BE 6'+ FOR FLOWED AREAS, 4' FOR CROSS COUNTRY
2. MULTIPLE PIPES IN THE SAME TRENCH SHALL BE SEPARATED BY 12\"/>

STANDARD TRENCH DETAIL

N.T.S.



LOCUS MAP

1"=1500'

NOTES:

1. JURISDICTIONAL FRESHWATER WETLANDS AND WATERCOURSES WERE DELINEATED BY JOHN P. HAYES III, CWS (#18), CSS (#87) ON SEPTEMBER 22 & 23, 2021 IN ACCORDANCE WITH ENV-WT 406 AS REQUIRED BY THE NHDES WETLANDS BUREAU.

DESIGN NOTES:

PERC RATE:
10 MIN/IN

HYDRAULIC LOADING (PER ENV-WH 1000, TABLE 1008-1):
6 BEDROOM DWELLING X 150 GPD = 900 GPD

EFFLUENT DISPOSAL AREA:

6 BEDROOMS: 1,100 SF + 278 SF x 2 = 1,656 SF
ALLOWED 40% AREA REDUCTION: 1,656 SF x (0.60) = 994 SF

PROVIDED: EDA = 9 ROWS OF 10 CHAMBERS = 90 CHAMBERS
= 90 CHAMBERS x 11.32 SF/CHAMBER = 1,018 SF

SETBACKS TO NEAREST:

ABUTTING WELL: 100'+
SURFACE WATER: 75'+
POORLY DRAINED WETLAND: 50'+
VERY POORLY DRAINED WETLAND: 75'+
OPEN DRAINAGE: 75'+
TOP OF STEEP SLOPE: 20'+
STORMWATER POND NOT INTERCEPTING SHWT: 35'+

TEST PIT LOGS

TEST PITS PERFORMED BY: JAMES GOVE, CSS #004, ON 10/30/24

Test Pit No.	STP-1		
<u>Horizon</u>	<u>Color (Munsell)</u>	<u>Texture</u>	<u>Structure - Consistence - Redox</u>
A 0-10"	10YR3/2	Loamy sand	Granular - Friable - None
B 10-32"	10YR5/4	Sand	Single grain - Loose - None
C 32-65"	2.5Y5/3	Sand	Single grain - Loose - 20% 10YR2/1 & 7.5YR5/6

ESHWT: 32"
Termination: 65"
Refusal: No
Obs. Water: None
Perc Rate: 10 Minutes/Inch @ 32"

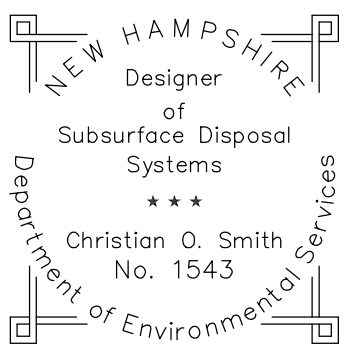
Test Pit No.	STP-2		
<u>Horizon</u>	<u>Color (Munsell)</u>	<u>Texture</u>	<u>Structure - Consistence - Redox</u>
A 0-10"	10YR3/2	Loamy sand	Granular - Friable - None
B 10-36"	10YR5/4	Sand	Single grain - Loose - None
C 36-55"	2.5Y5/3	Sand	Single grain - Loose - 20% 10YR2/1 & 7.5YR5/6
C2 55-65"	2.5Y5/3	Silty Clay Loam	Massive - Firm - 20% 10YR2/1 & 5YR5/6

ESHWT: 36"
Termination: 65"
Refusal: No
Obs. Water: None
Perc Rate: 10 Minutes/Inch @ 36"

OWNER OF RECORD

HEATH J. TODD REVOCABLE TRUST
HEATH J. TODD, TRUSTEE
402 WEBBER HILL ROAD
KENNEBUNK, ME 04043
BOOK 5159, PAGE 995 &
BOOK 4978, PAGE 1003

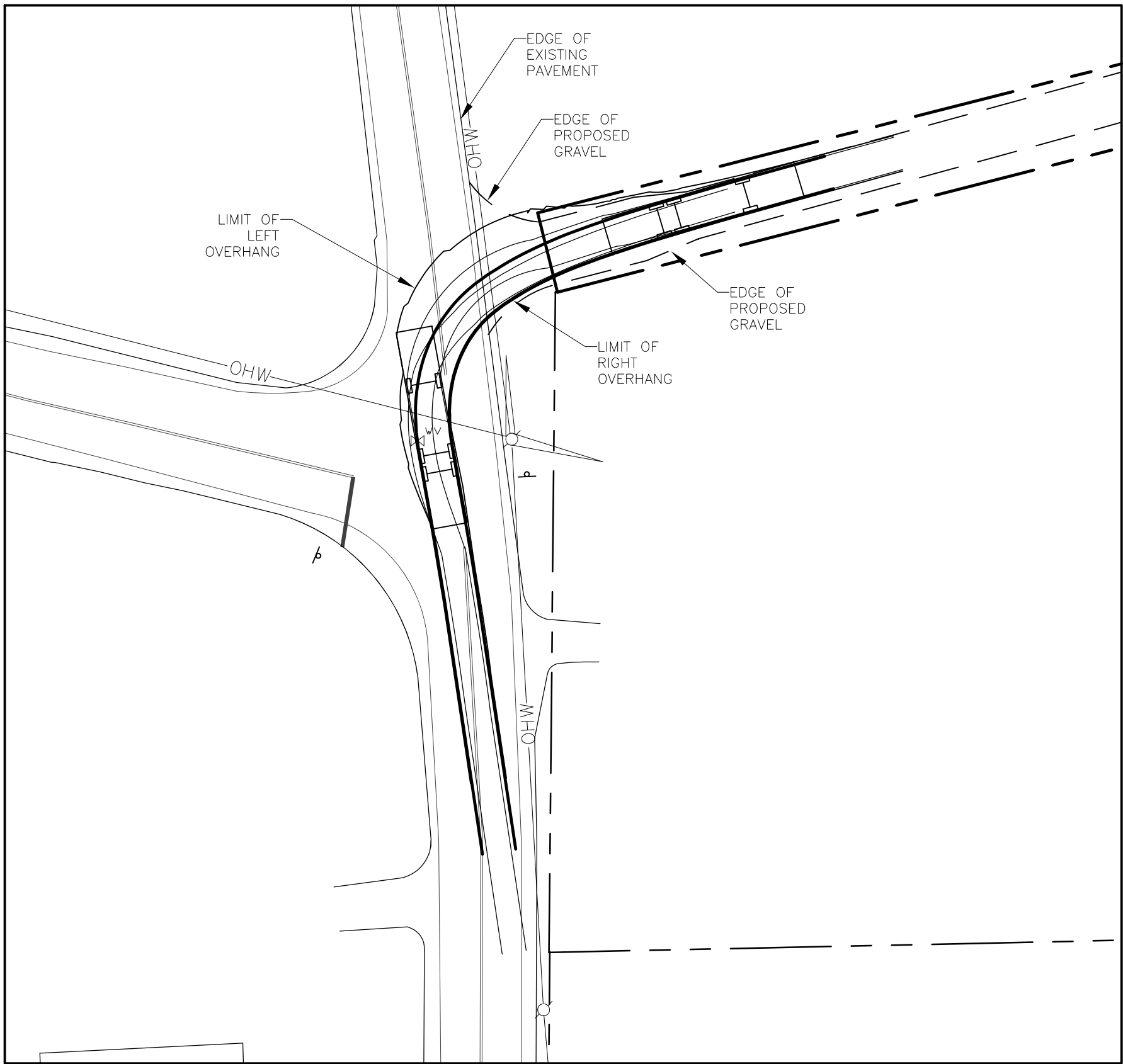
DESIGNER STAMP



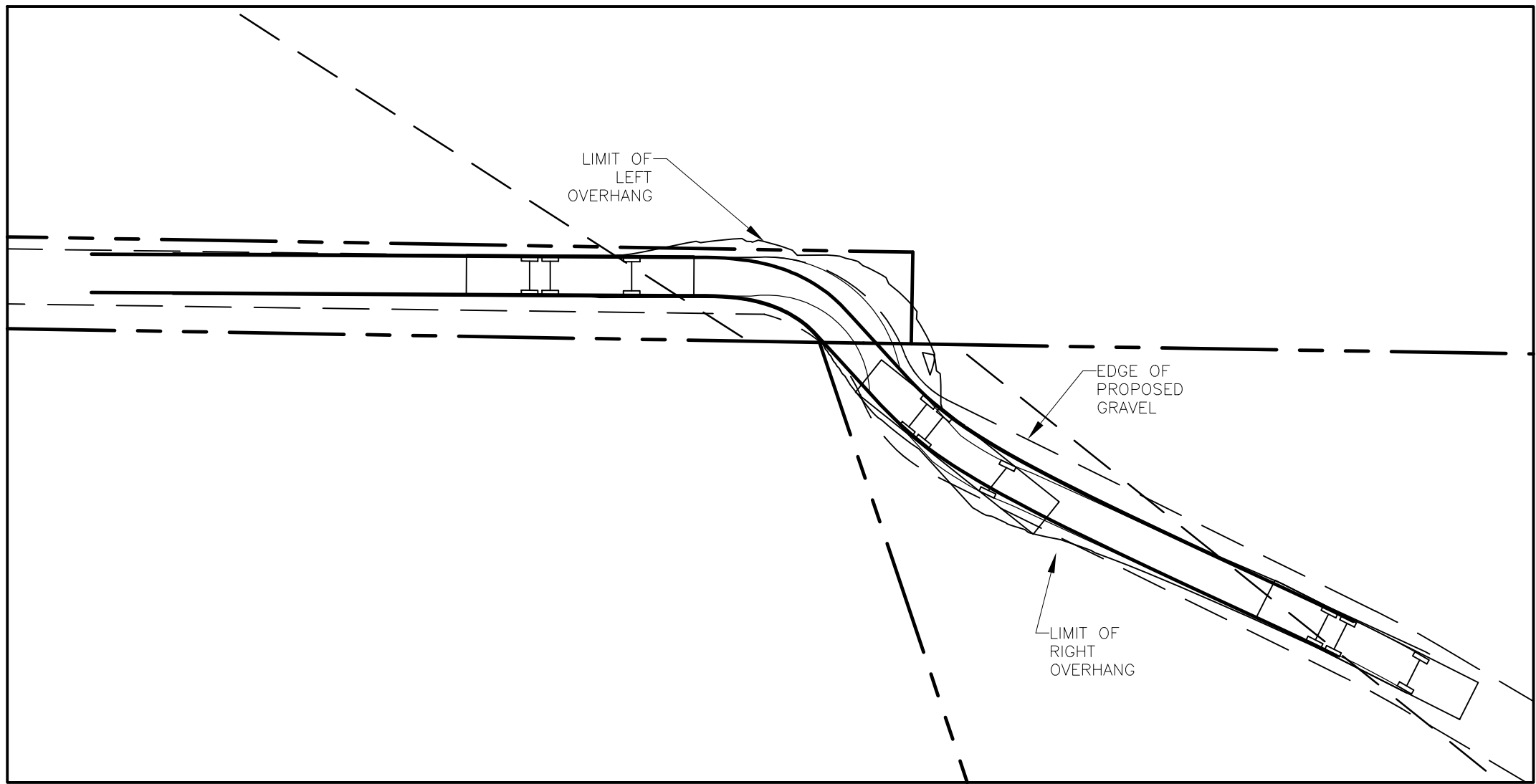
EFFLUENT DISPOSAL PLAN

PREPARED FOR:
HEATH J. TODD REVOCABLE TRUST
HEATH J. TODD, TRUSTEE
402 WEBBER HILL ROAD
KENNEBUNK, ME 04043

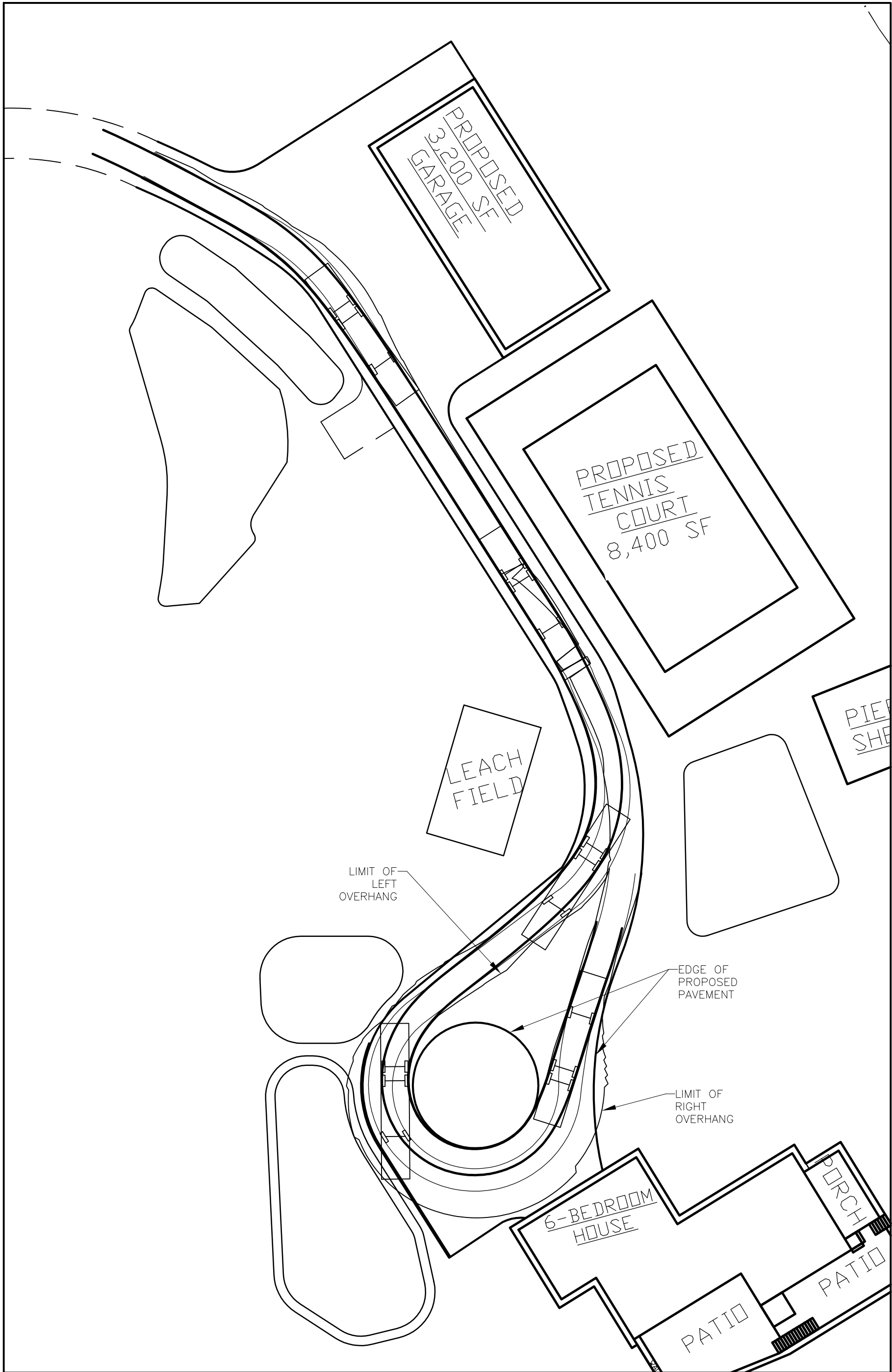
DATE: NOV 12, 2024
SCALE: 1" = 150'
PROJ. NO: NH-1501
SHEET NO. 21



BACK ROAD / GRAVEL DRIVEWAY ENTRANCE



GRAVEL DRIVEWAY PINCH POINT



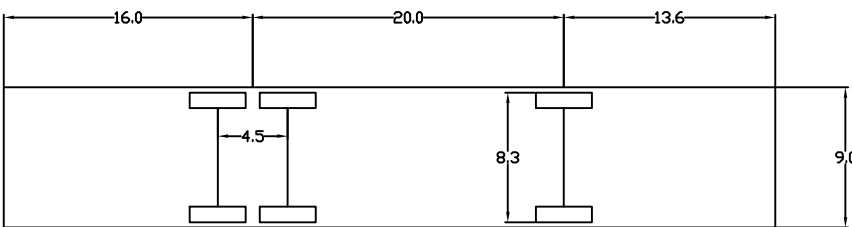
DRIVEWAY & TURN AROUND

PREPARED FOR:
HEATH J. TODD REVOCABLE TRUST
HEATH J. TODD, TRUSTEE
402 WEBBER HILL ROAD
KENNEBUNK, ME 04043

BA
BEALS
ASSOCIATES, PLLC

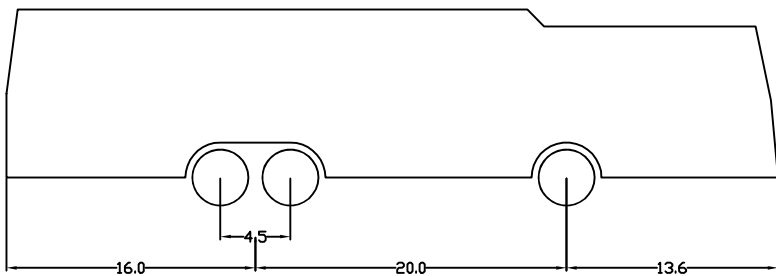
70 PORTSMOUTH AVE,
THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
FAX: 603-583-4863

Dover Fire Ladder Truck

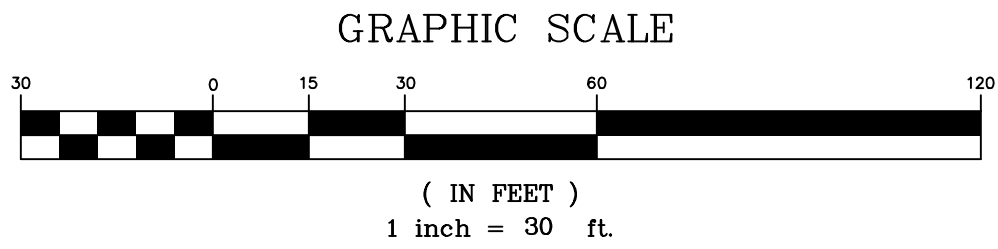


FEET
Tire Diameter: 3.6

Dover Fire Ladder Truck



FEET
Vehicle Width: 9
Wheel Width: 8.33
Tire Diameter: 3.6



REVISIONS:	DATE:

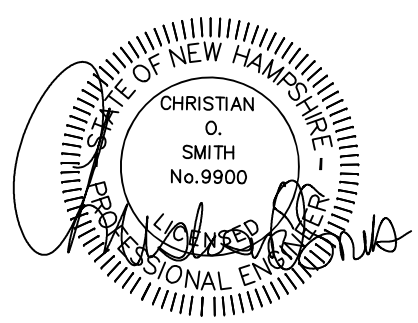
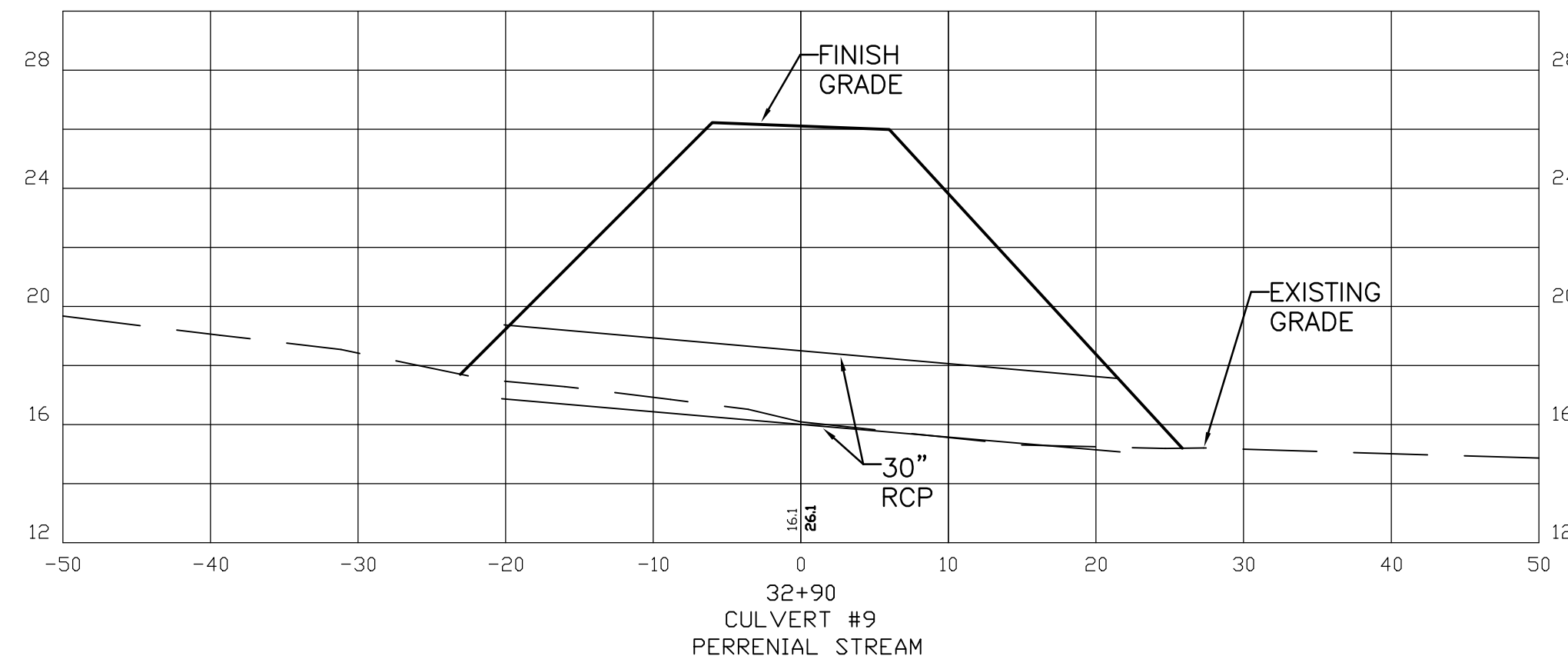
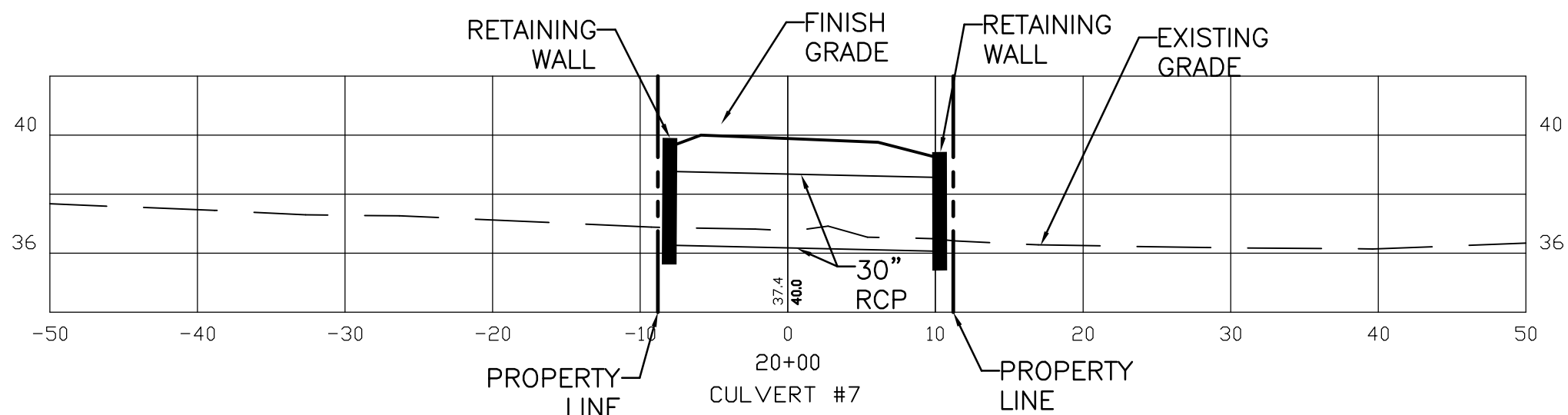
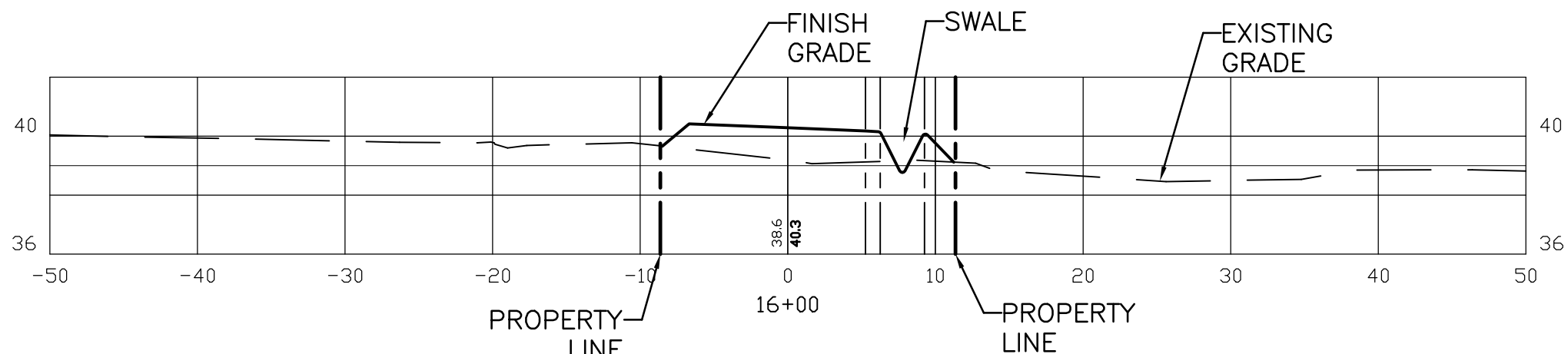
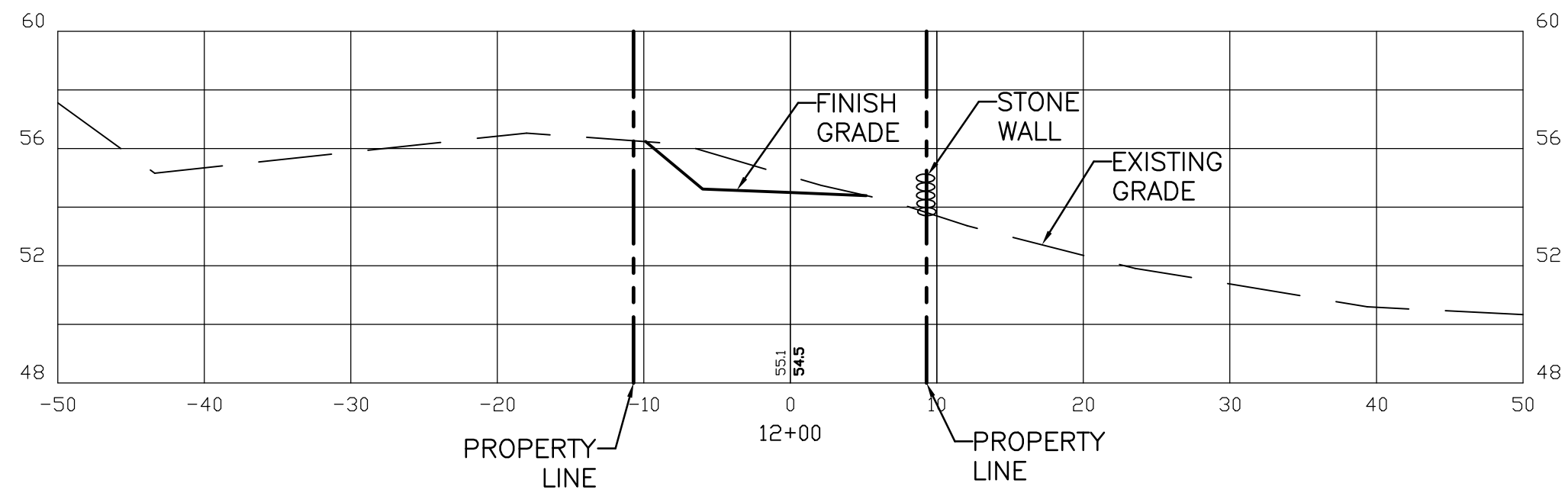
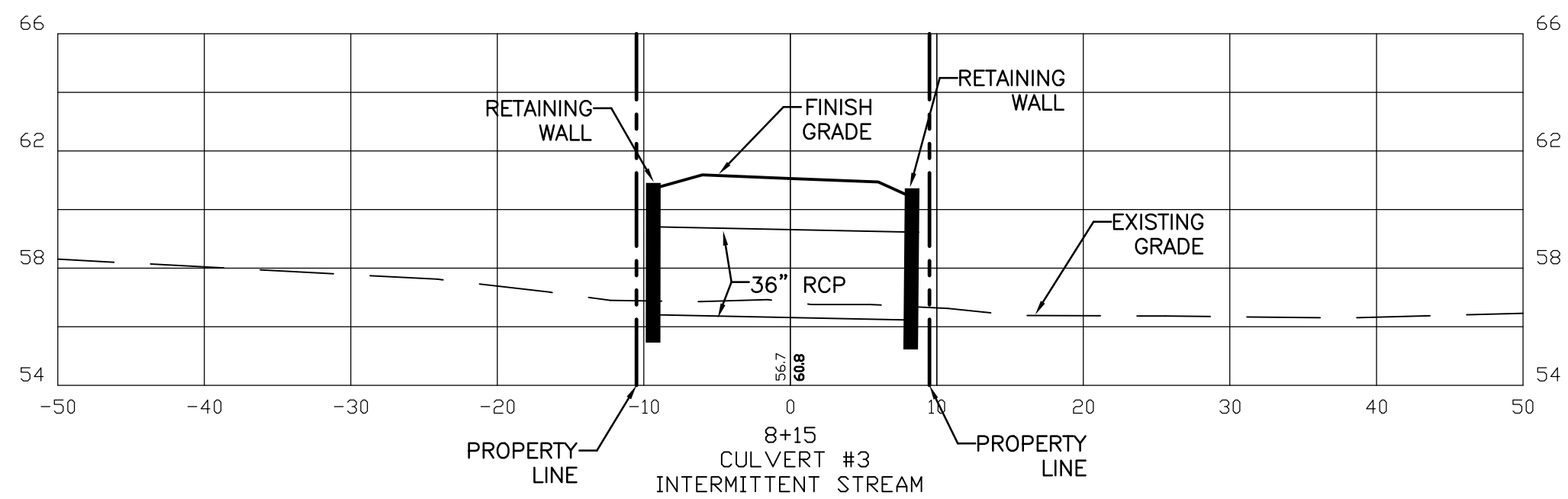
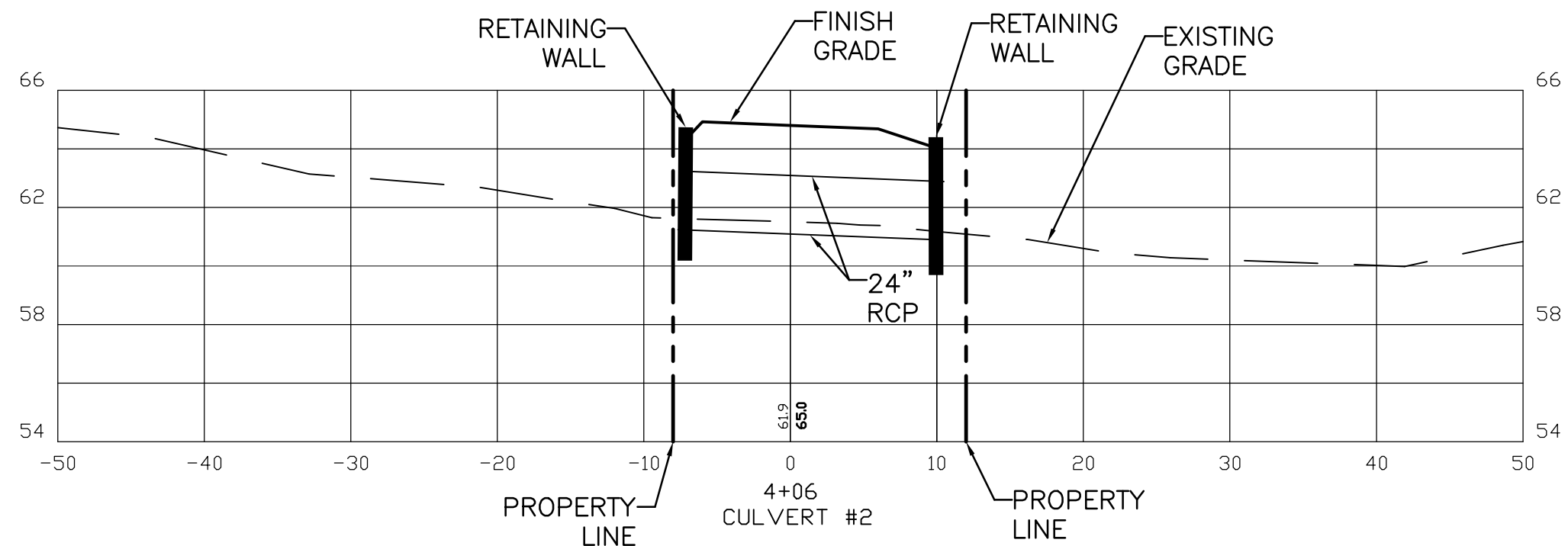
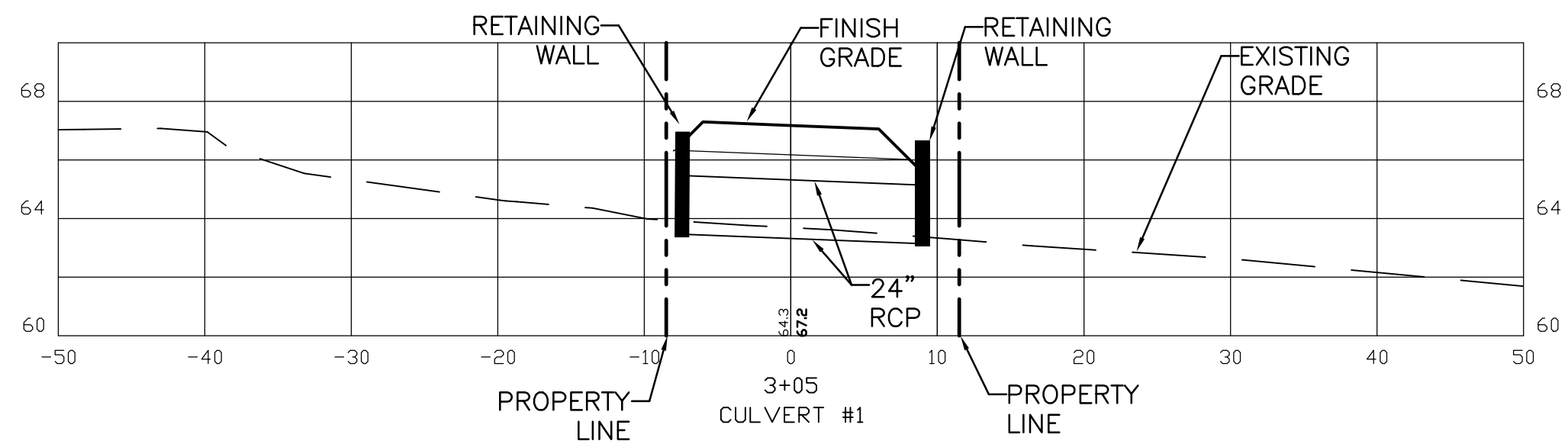
LADDER TRUCK MANEUVERING PLAN

PLAN FOR: BACK ROAD DOVER, NH			
DATE:	NOV 12, 2024	SCALE:	1"=30'
PROJ. NO:	NH-1501	SHEET NO.	22

PREPARED FOR:
HEATH J. TODD REVOCABLE TRUST
HEATH J. TODD, TRUSTEE
402 WEBBER HILL ROAD
KENNEBUNK, ME 04043



70 PORTSMOUTH AVE,
THIRD FLOOR, SUITE 2
STRATHAM, N.H. 03885
PHONE: 603-583-4860,
FAX: 603-583-4863



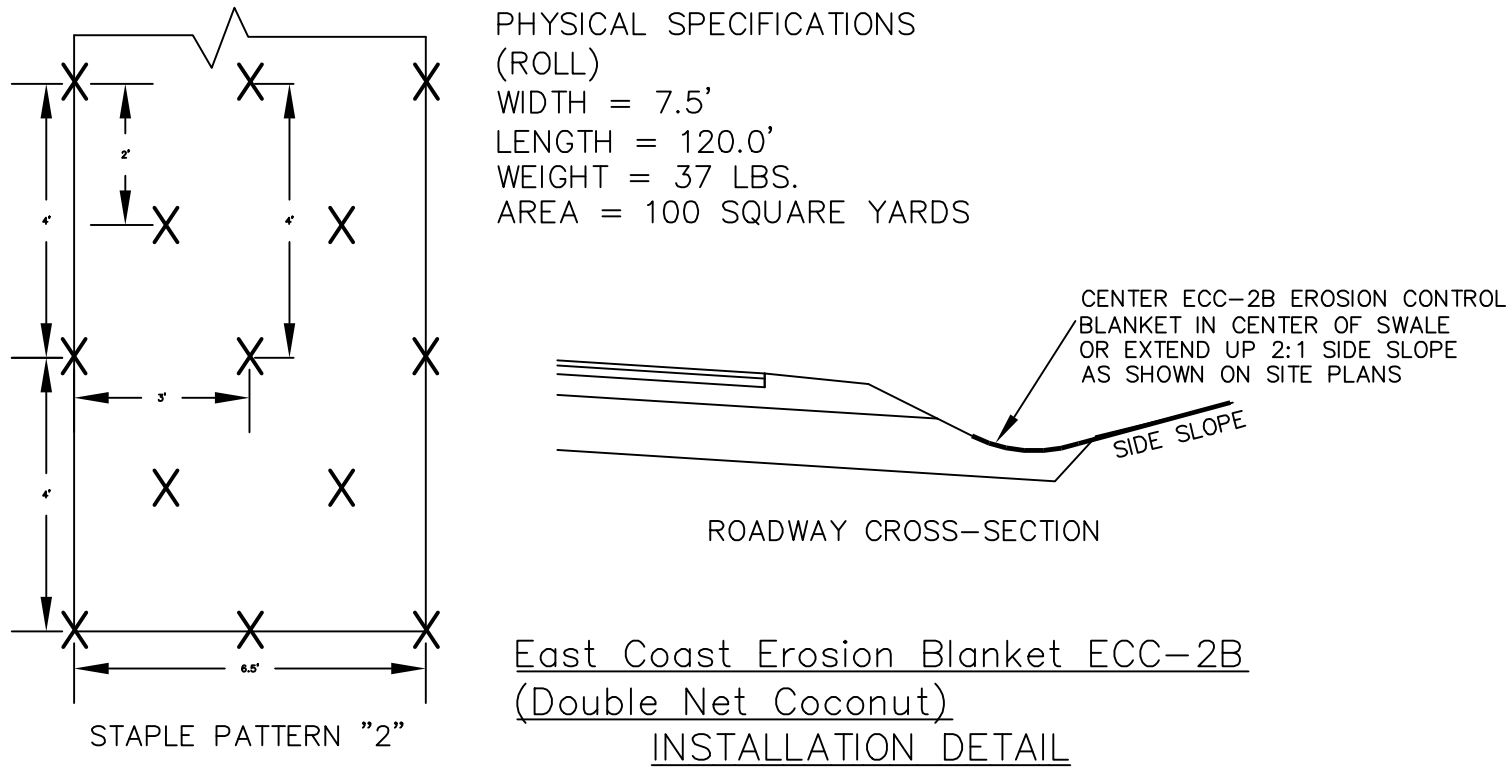
PROFILE SCALES:
HORIZONTAL: 1"=10' VERTICAL: 1"=2'

REVISED PER REVIEW COMMENTS	12.23.24
REVISIONS:	DATE:

DRIVEWAY SECTIONS

PLAN FOR:
BACK ROAD
DOVER, NH

DATE:	NOV 12, 2024	SCALE:	1"=10'
PROJ. NO:	NH-1501	SHEET NO.	23



TEMPORARY EROSION CONTROL MEASURES

1. THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT NO MORE THAN 5 ACRES OF LAND SHALL BE EXPOSED BEFORE DISTURBED AREAS ARE STABILIZED.
2. EROSION, SEDIMENT AND DETENTION MEASURES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND AT LOCATIONS AS REQUIRED OR DIRECTED BY THE ENGINEER ALL DISTURBED AREAS SHALL BE RETURNED TO ORIGINAL GRADES AND ELEVATIONS.
3. DISTURBED AREAS SHALL BE LOAMED WITH A MINIMUM OF 4" OF LOAM AND SEEDED WITH NOT LESS THAN 1.10 POUNDS OF SEED PER 1000 SQUARE FEET OF AREA. (48 POUNDS PER ACRE) SEE SEED SPECIFICATIONS THIS SHEET.
4. SILT FENCES AND OTHER EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER EVERY RAIN EVENT GREATER THAN 0.25" DURING THE LIFE OF THE PROJECT. ALL DAMAGED AREAS SHALL BE REPAIRED, SEDIMENT DEPOSITS SHALL PERIODICALLY BE REMOVED AND DISPOSED OF.
5. AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE TEMPORARY EROSION CONTROL MEASURES ARE TO BE REMOVED AND THE AREA DISTURBED BY THE REMOVAL SMOOTHED AND RE-VEGETATED.
6. AREAS MUST BE SEEDED AND MULCHED WITHIN 3 DAYS OF FINAL GRADING, PERMANENTLY STABILIZED WITHIN 15 DAYS OF FINAL GRADING, OR TEMPORARILY STABILIZED WITHIN 30 DAYS OF INITIAL DISTURBANCE OF SOIL.
7. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
 - BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED.
 - A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED.
 - A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL SUCH AS RIPRAP HAS BEEN INSTALLED.
 - EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
8. WITHIN 50 FEET DISTURBANCE TO ANY WETLAND, A DOUBLE ROW OF EROSION BARRIER (SILT FENCE, SILT SOCK, OR MULCH BERM) SHALL BE INSTALLED.
9. TEMPORARY WATER DIVERSION (SWALES, BASINS, ETC.) MUST BE USED AS NECESSARY UNTIL AREAS ARE STABILIZED.
10. DITCHES AND SWALES SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.

CONSTRUCTION SPECIFICATIONS

1. STRUCTURES SHALL BE INSTALLED ACCORDING TO THE DIMENSIONS SHOWN ON THE PLANS AT THE APPROPRIATE SPACING.
2. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER SO THAT EROSION AND AIR AND WATER POLLUTION WILL BE MINIMIZED.
3. WHEN TIMBER STRUCTURES ARE USED, THE TIMBER SHALL EXTEND AT LEAST 18" INTO THE SOIL.
4. STRAW BALES SHALL BE ANCHORED INTO THE SOIL USING 2" X 2" STAKES DRIVEN THROUGH THE BALES AND AT LEAST 18 INCHES IN TO THE SOIL.
5. SEEDING, FERTILIZING, AND MULCHING SHALL CONFORM TO THE RECOMMENDATIONS IN THE APPROPRIATED VEGETATIVE BMP.
6. STRUCTURES SHALL BE REMOVED FROM THE CHANNEL WHEN THEIR USEFUL LIFE HAS BEEN COMPLETED.
7. THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES THE CONTRACTOR SHALL TAKE PRECAUTIONS AND INSTRUCTIONS FROM THE PLANNING DEPARTMENT IN ORDER TO PREVENT, ABATE AND CONTROL THE EMISSION OF FUGITIVE DUST INCLUDING BUT NOT LIMITED TO WETTING, COVERING, SHIELDING, OR VACUUMING.
8. THE NH COMMISSIONER OF AGRICULTURE PROHIBITS THE COLLECTION, POSSESSION, IMPORTATION, TRANSPORTATION, SALE, PROPAGATION, TRANSPLANTATION, OR CULTIVATION OF PLANTS BANNED BY NH LAW RSA 430:53 AND NH CODE ADMINISTRATIVE RULES AGR 3800. THE PROJECT SHALL MEET ALL REQUIREMENTS AND THE INTENT OF . RSA 430:53 AND AGR 3800 RELATIVE TO INVASIVE SPECIES
9. THE CONSTRUCTION SITE OPERATOR AND OWNER SHALL SUBMIT A NOTICE OF INTENT (NOI) TO USEPA, WASHINGTON, DC, STORMWATER NOTICE PROCESSING CENTER AT LEAST FOURTEEN DAYS PRIOR TO COMMENCEMENT OF WORK ON SITE. EPA WILL POST THE NOI AT <http://cfpubl.epa.gov/npdes/stormwater/noi/noisearch.cfm>. AUTHORIZATION IS GRANTED UNDER THE PERMIT ONCE THE NOI IS SHOWN IN "ACTIVE STATUS".

CONSTRUCTION SEQUENCE

1. WETLAND BOUNDARIES SHALL BE MARKED IN THE FIELD PRIOR TO CONSTRUCTION/START OF CLEARING AS NECESSARY TO AVOID INADVERTENT IMPACTS.
2. INSTALL EROSION CONTROL MEASURES ALONG PROPOSED DRIVEWAY PRIOR TO EARTH MOVING OPERATIONS.
3. CUT AND REMOVE TREES AS DIRECTED OR REQUIRED FOR THE INSTALLATION OF THE PROPOSED DRIVEWAY INTO THE SITE.
4. CONSTRUCT GRAVEL DRIVEWAY AND ASSOCIATED WETLAND/STREAM CROSSINGS ALONG DRIVEWAY.
5. INSTALL EROSION CONTROL MEASURES ALONG PROPOSED WORK BEYOND DRIVEWAY PRIOR TO ADDITIONAL EARTH MOVING OPERATIONS.
6. CUT AND REMOVE TREES AS DIRECTED OR REQUIRED FOR THE DEVELOPMENT OF THE AREA BEYOND THE DRIVEWAY.
7. CONSTRUCT AND/OR INSTALL TEMPORARY AND PERMANENT SEDIMENT EROSION AND DETENTION CONTROL FACILITIES, AS REQUIRED. EROSION, SEDIMENT, AND FACILITIES SHALL BE INSTALLED AND STABILIZED PRIOR TO ANY EARTH MOVING OPERATION, AND PRIOR TO DIRECTING RUN-OFF TO THEM.
8. CLEAR, CUT, GRUB, AND DISPOSE OF DEBRIS IN APPROVED FACILITIES.
9. EXCAVATE AND STOCKPILE TOPSOIL / LOAM. ALL DISTURBED AREAS INCLUDING CUT/FILL SLOPES SHALL BE STABILIZED AND/OR LOAMED AND SEEDED WITHIN 72-HOURS OF ACHIEVING FINISH GRADE.
10. CONSTRUCT ADDITIONAL DRIVEWAY AND ITS ASSOCIATED DRAINAGE STRUCTURES.
11. CONSTRUCT BUILDING FOUNDATIONS AND SITE AMENITIES.
12. BEGIN PERMANENT AND TEMPORARY SEEDING AND MULCHING. ALL CUT AND FILL SLOPES AND DISTURBED AREAS SHALL BE SEEDED AND MULCHED AS REQUIRED OR DIRECTED.
13. DAILY, OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, DRAINAGE DITCHES, SEDIMENT TRAPS, ETC. TO PREVENT EROSION ON THE SITE AND PREVENT ANY SILTATION OF ABUTTING WATERS OR PROPERTY.
14. INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION.
15. COMPLETE PERMANENT SEEDING AND LANDSCAPING.
16. REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER SEEDING AREAS HAVE ESTABLISHED THEMSELVES AND SITE IMPROVEMENTS ARE COMPLETE. SMOOTH AND RE-VEGETATE ALL DISTURBED AREAS.
17. ALL SWALES AND DRAINAGE STRUCTURES WILL BE CONSTRUCTED AND STABILIZED PRIOR TO HAVING RUNOFF BEING DIRECTED TO THEM.
18. FINISH GRAVELING/PAVING ALL ROADWAYS AND STABILIZE MATERIAL STORAGE AREAS.

CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES AND FILTER CLOTH SHALL BE FASTENED TO WOVEN WIRE EVERY 24" AT TOP MID AND BOTTOM SECTIONS AND BE EMBEDDED INTO GROUND A MINIMUM OF 8". 2. THE FENCE POSTS SHALL BE A MINIMUM 48" LONG, SPACED A MAXIMUM 10' APART, AND DRIVEN A MINIMUM OF 16" INTO THE GROUND.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THE ENDS OF THE FABRIC SHALL BE OVERLAPPED BY SIX INCHES, FOLDED AND STAPLED TO PREVENT SEDIMENT FROM BY-PASSING.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SEDIMENT REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE AND PROPERLY DISPOSED OF.
5. PLACE THE ENDS OF THE SILT FENCE UP CONTOUR TO PROVIDE FOR SEDIMENT STORAGE.
6. SILT FENCES SHALL BE REMOVED WHEN NO LONGER NEEDED AND THE SEDIMENT COLLECTED SHALL BE DISPOSED AS DIRECTED BY THE ENGINEER. THE AREA DISTURBED BY THE REMOVAL SHALL BE SMOOTHED AND RE-VEGETATED.

MAINTENANCE

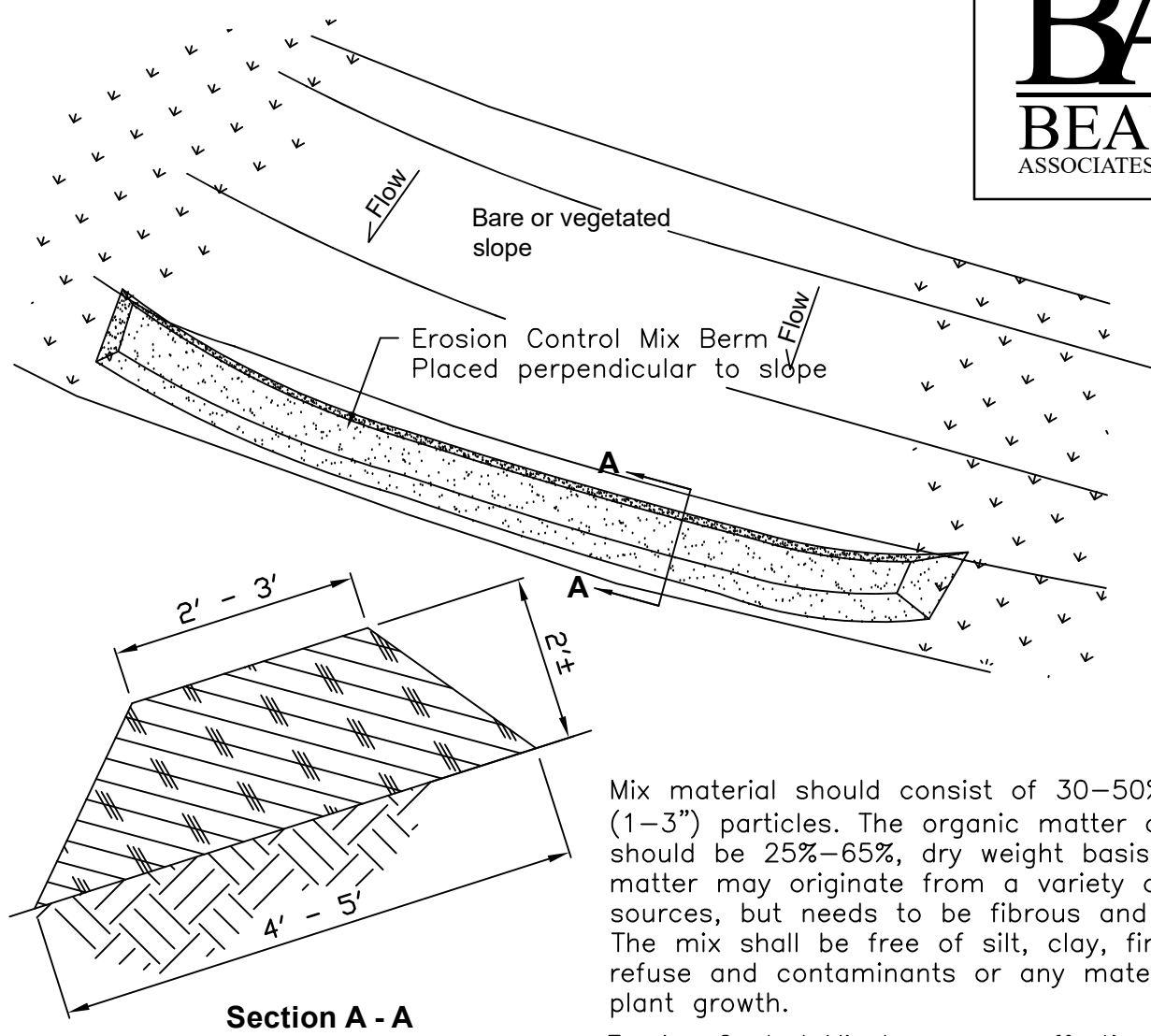
1. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.
2. IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER.
4. SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.

WINTER MAINTENANCE

1. ALL DISTURBED AREAS THAT DO NOT HAVE AT LEAST 85% VEGETATIVE COVERAGE PRIOR TO OCTOBER 15TH, SHALL BE STABILIZED BY APPLYING MULCH AT A RATE OF 3-4 TONS PER ACRE. ALL SIDE SLOPES, STEEPER THAN 4:1, THAT ARE NOT DIRECTED TO SWALES OR DETENTION BASINS, SHALL BE LINED WITH BIODEGRADABLE/PHOTODEGRADABLE "JUTE MATTING" (EXCELSIOR'S CURLEX II OR EQUAL). ALL OTHER SLOPES SHALL BE MULCHED AND TACKED AT A RATE OF 3-4 TONS PER ACRE. THE APPLICATION OF MULCH AND/OR JUTE MATTING SHALL NOT OCCUR OVER EXISTING SNOW COVER. IF THE SITE IS ACTIVE AFTER OCTOBER 15TH, ANY SNOW THAT ACCUMULATES ON DISTURBED AREAS SHALL BE REMOVED. PRIOR TO SPRING THAW ALL AREAS WILL BE STABILIZED, AS DIRECTED ABOVE.
2. ALL SWALES THAT DO NOT HAVE FULLY ESTABLISHED VEGETATION SHALL BE EITHER LINED WITH TEMPORARY JUTE MATTING OR TEMPORARY STONE CHECK DAMS (APPROPRIATELY SPACED). STONE CHECK DAMS WILL BE MAINTAINED THROUGHOUT THE WINTER MONTHS. IF THE SWALES ARE TO BE MATTED WITH PERMANENT LINERS OR RIPRAP WITH ENGINEERING FABRIC, THIS SHALL BE COMPLETED PRIOR TO WINTER SHUTDOWN OR AS SOON AS THEY ARE PROPERLY GRADED AND SHAPED.
3. PRIOR TO OCT. 15TH ALL ROADWAY AND PARKING AREAS SHALL BE BROUGHT UP TO AND THROUGH THE BANK RUN GRAVEL APPLICATION. IF THESE AREAS' ELEVATIONS ARE PROPOSED TO REMAIN BELOW THE PROPOSED SUBGRADE ELEVATION, THE SUBGRADE MATERIAL SHALL BE ROUGHLY CROWNED AND A 3" LAYER OF CRUSHED GRAVEL SHALL BE PLACED AND COMPACTED. THIS WILL ALLOW THE SUBGRADE TO SHED RUNOFF AND WILL REDUCE ROADWAY EROSION. THIS CRUSHED GRAVEL DOES NOT HAVE TO CONFORM TO NH DOT 304.3, BUT SHALL HAVE BETWEEN 15-25% PASSING THE #200 SIEVE AND THE LARGEST STONE SIZE SHALL BE 2". IF THE SITE IS ACTIVE AFTER NOVEMBER 15TH, ANY ACCUMULATED SNOW SHALL BE REMOVED FROM ALL ROADWAY AND PARKING AREAS.
4. AFTER OCTOBER 15TH, THE END OF NEW HAMPSHIRE'S AVERAGE GROWING SEASON, NO ADDITIONAL LOAM SHALL BE SPREAD ON SIDE SLOPES AND SWALES. THE STOCKPILES THAT WILL BE LEFT UNDISTURBED UNTIL SPRING SHALL BE SEEDED BY THIS DATE. AFTER OCTOBER 15TH, ANY NEW OR DISTURBED PILES SHALL BE MULCHED AT A RATE OF 3-4 TONS PER ACRE. ALL STOCKPILES THAT WILL REMAIN THROUGHOUT THE WINTER SHALL BE SURROUNDED WITH SILT FENCING.

SEEDING SPECIFICATIONS

1. GRADING AND SHAPING
 - A. SLOPES SHALL NOT BE STEEPER THAN 2:1;3:1 SLOPES OR FLATTER ARE PREFERRED. WHERE MOWING WILL BE DONE, 3:1 SLOPES OR FLATTER ARE RECOMMENDED.
2. SEEDBED PREPARATION
 - A. SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS.
 - B. STONES LARGER THAN 4 INCHES AND TRASH SHOULD BE REMOVED BECAUSE THEY INTERFERE WITH SEEDING AND FUTURE MAINTENANCE OF THE AREA. WHERE FEASIBLE, THE SOIL SHOULD BE TILLED TO A DEPTH OF ABOUT 4 INCHES TO PREPARE A SEEDBED AND MIX FERTILIZER AND LIME INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHEREVER PRACTICAL.
3. ESTABLISHING A STAND
 - A. LIME AND FERTILIZER SHOULD BE APPLIED PRIOR TO OR AT THE TIME OF SEEDING AND INCORPORATED INTO THE SOIL. KINDS AND AMOUNTS OF LIME AND FERTILIZER SHOULD BE BASED ON AN EVALUATION OF SOIL TESTS. WHEN A SOIL TEST IS NOT AVAILABLE, THE FOLLOWING MINIMUM AMOUNTS SHOULD BE APPLIED:
AGRICULTURAL LIMESTONE, 2 TONS PER ACRE OR 100 LBS PER 1,000 SQ. FT.
NITROGEN(N), 50 LBS PER ACRE OR 1. 1 LBS PER 1,000 SQ.FT.
PHOSPHATE(P2O5), 100 LBS PER ACRE OR 2. 2 LBS PER 1,000 SQ.FT.
POTASH(K2O), 100 LBS PER ACRE OR 2. 2 LBS PER 1,000 SQ.FT.
(NOTE: THIS IS THE EQUIVALENT OF 500 LBS PER ACRE OF 10-20-20 FERTILIZER OR 1,000 LBS PER ACRE OF 5-10-10.)
 - B. SEED SHOULD BE SPREAD UNIFORMLY BY THE METHOD MOST APPROPRIATE FOR THE SITE. METHODS INCLUDE BROADCASTING, DRILLING AND HYDROSEEDING. WHERE BROADCASTING IS USED, COVER SEED WITH .25 INCH OF SOIL OR LESS, BY CULTPACKING OR RAKING.
 - C. A NEW ENGLAND NATIVE SEED MIXTURE SHALL BE USED. REFER TO MANUFACTURER'S SPECIFICATIONS FOR RATES OF SEEDING.
 - D. WHEN SEEDED AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO EARLY OCTOBER. WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 10 TO SEPTEMBER 1.
4. MULCH
 - A. HAY, STRAW, OR OTHER MULCH, WHEN NEEDED, SHOULD BE APPLIED IMMEDIATELY AFTER SEEDING.
 - B. MULCH WILL BE HELD IN PLACE USING APPROPRIATE TECHNIQUES FROM THE BEST MANAGEMENT PRACTICE FOR MULCHING. HAY OR STRAW MULCH SHALL BE PLACED AT A RATE OF 90 LBS PER 1000 SQ. FT.
5. MAINTENANCE TO ESTABLISH A STAND
 - A. PLANTED AREA SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZING, TRAFFIC, AND DENSE WEED GROWTH.
 - B. FERTILIZATION NEEDS SHOULD BE DETERMINED BY ONSITE INSPECTIONS. SUPPLEMENTAL FERTILIZER IS USUALLY THE KEY TO FULLY COMPLETE THE ESTABLISHMENT OF THE STAND BECAUSE MOST PERENNIAL STAKE 2 TO 3 YEARS TO BECOME ESTABLISHED.
 - C. IN WATERWAYS, CHANNELS, OR SWALES WHERE UNIFORM FLOW CONDITIONS ARE ANTICIPATED, OCCASIONAL MOWING MAY BE NECESSARY TO CONTROL GROWTH OF WOODY VEGETATION.



Mix material should consist of 30-50% large (1-3") particles. The organic matter content should be 25%-65%, dry weight basis. The organic matter may originate from a variety of vegetative sources, but needs to be fibrous and elongated. The mix shall be free of silt, clay, fine sand, refuse and contaminants or any material toxic to plant growth.

Erosion Control Mix berms are effective filters for overland flow conditions and should not be used to filter concentrated flow such as that found in drainage ditches, streams, etc.

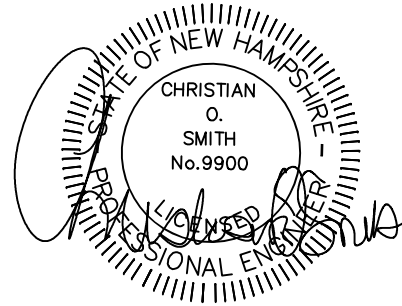
Erosion Control Mix Berm

SEEDING GUIDE

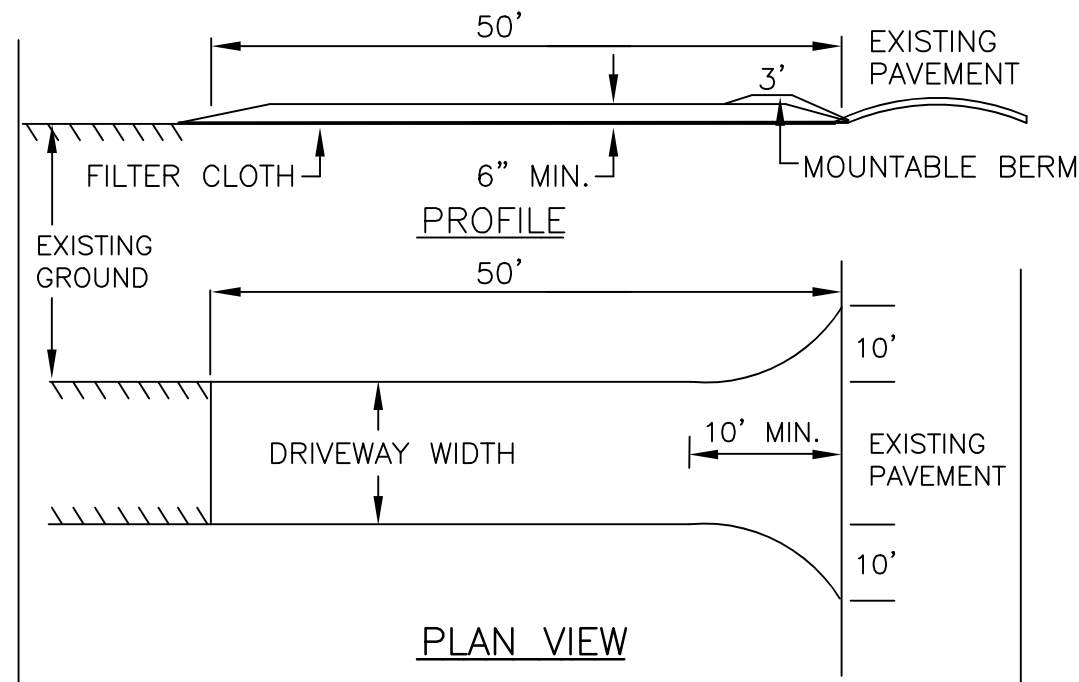
USE	SEEDING MIXTURE*	DROUGHTY	WELL DRAINED	MODERATELY WELL DRAINED	POORLY DRAINED
STEEP CUTS AND FILLS, BORROW AND DISPOSAL AREAS	A B C D E	FAIR POOR POOR FAIR FAIR	GOOD GOOD GOOD EXCELLENT EXCELLENT	GOOD FAIR EXCELLENT GOOD EXCELLENT	FAIR FAIR GOOD EXCELLENT POOR
WATERWAYS, EMERGENCY SPILLWAYS, AND OTHER CHANNELS WITH FLOWING WATER.	A B C	GOOD GOOD GOOD	GOOD GOOD EXCELLENT	GOOD EXCELLENT EXCELLENT	GOOD FAIR FAIR
LIGHTLY USED PARKING LOTS, ODD AREAS, UNUSED LANDS, AND LOW INTENSITY USE RECREATION SITES.	A B C D	GOOD FAIR GOOD FAIR	GOOD GOOD EXCELLENT GOOD	GOOD FAIR EXCELLENT GOOD	FAIR POOR FAIR EXCELLENT
PLAY AREAS AND ATHLETIC FIELDS. (TOPSOIL IS ESSENTIAL FOR GOOD TURF.)	F G	FAIR FAIR	EXCELLENT EXCELLENT	EXCELLENT EXCELLENT	** **

GRAVEL PIT, SEE NH-PM-24 IN APPENDIX FOR RECOMMENDATION REGARDING RECLAMATION OF SAND AND GRAVEL PITS.
* REFER TO SEEDING MIXTURES AND RATES IN TABLE 7-36.
** POORLY DRAINED SOILS ARE NOT DESIRABLE FOR USE AS PLAY AREAS OR ATHLETIC FIELDS.

NOTE: TEMPORARY SEED MIX FOR STABILIZATION OF TURF SHALL BE WINTER RYE OR OATS AT A RATE OF 2.5 LBS. PER 1000 S.F. AND SHALL BE PLACED PRIOR TO OCT. 15, IF PERMANENT SEEDING NOT YET COMPLETE.

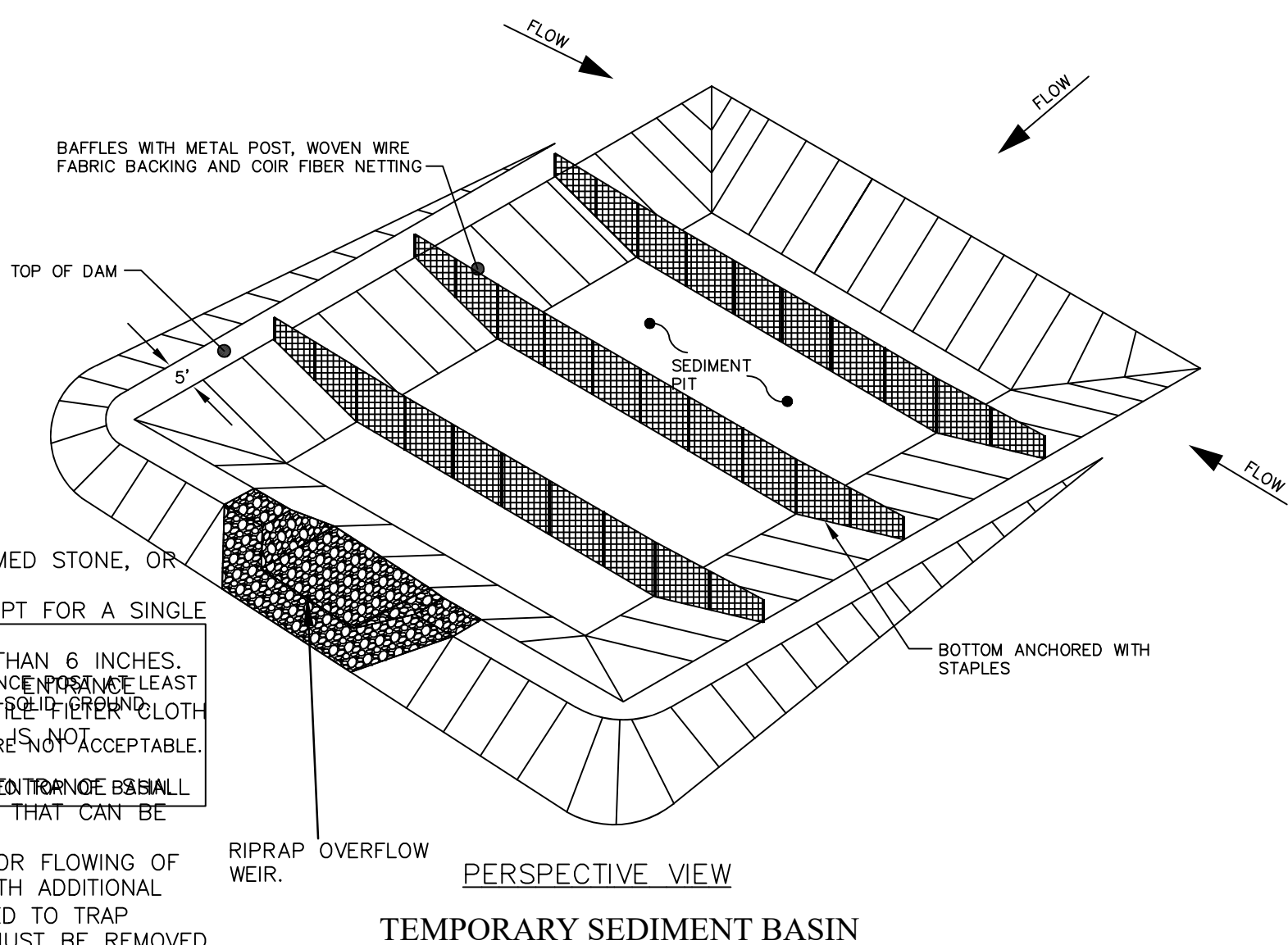


REVISED FOR AOT SUBMITTAL	12.27.24
REVISED PER REVIEW COMMENTS	11.12.24
REVISIONS:	DATE:
EROSION CONTROL NOTES & DETAILS	
PLAN FOR: BACK ROAD DOVER, NH	
DATE: AUGUST 2, 2024	SCALE: NTS
PROJ. NO: NH-1501	SHEET NO. 24

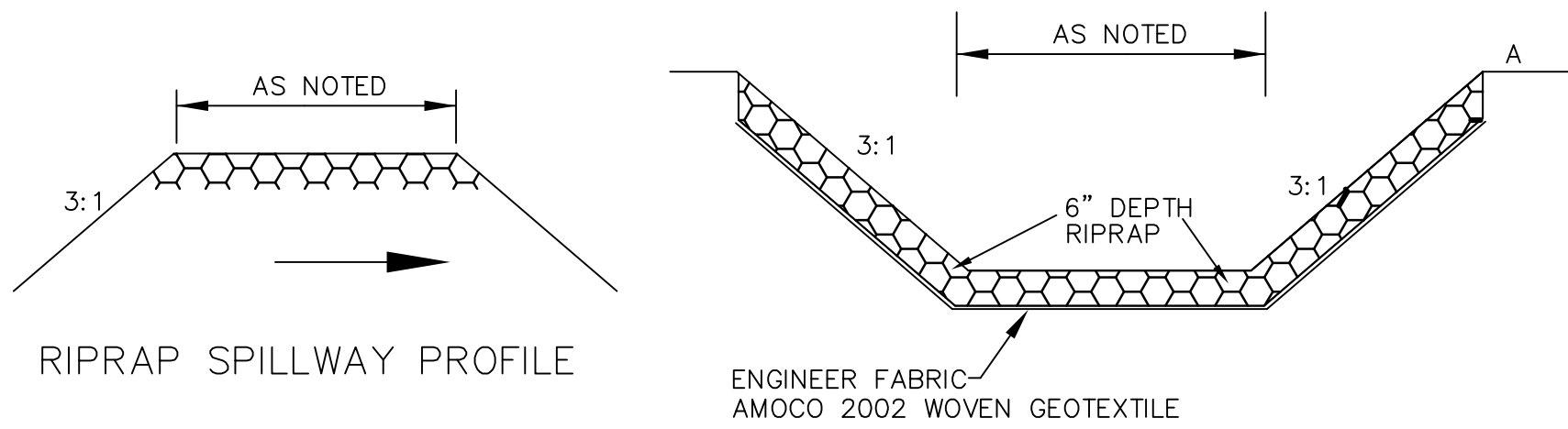


1. STONE FOR A STABILIZED CONSTRUCTION ENTRANCE SHALL BE 3 INCH STONE, RECLAIMED STONE, OR RECYCLED CONCRETE EQUIVALENT.
2. THE LENGTH OF THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 50 FEET, EXCEPT FOR A SINGLE RESIDENTIAL LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.
3. THE THICKNESS OF THE STONE FOR THE STABILIZED ENTRANCE SHALL NOT BE LESS THAN 6 INCHES.
4. THE WIDTH OF THE ENTRANCE SHALL NOT BE LESS THAN THE FULL WIDTH OF THE DRIVEWAY. WHERE INGRESS OR EGRESS OCCURS OR 10 FEET, WHICHEVER IS GREATER, SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING THE STONE. FILTER CLOTHS ARE NOT ACCEPTABLE. REQUIRED FOR A SINGLE FAMILY RESIDENCE LOT.
5. ALL SURFACE WATER THAT IS FLOWING TO OR DIVERTED TOWARD THE CONSTRUCTION ENTRANCE SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A BERM WITH 5:1 SLOPES THAT CAN BE CROSSED BY VEHICLES MAY BE SUBSTITUTED FOR THE PIPE.
6. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED PROMPTLY.

STABILIZED CONSTRUCTION ENTRANCE

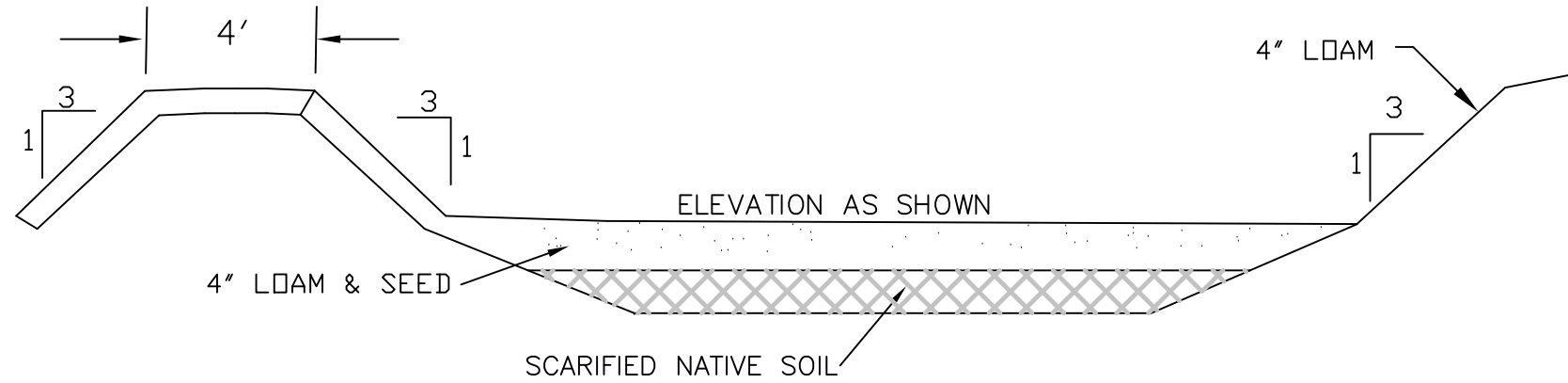


TEMPORARY SEDIMENT BASIN



RIPRAP SPILLWAY DETAILS
WHERE SPECIFIED

Table 4-13. Gradation of Stone for Level Spreader Berm	
Sieve Designation	Percent by Weight Passing Square Mesh Sieve
12-inch	100%
6-inch	84% - 100%
3-inch	68% - 83%
1-inch	42% - 55%
No. 4	8% - 12%



INFILTRATION POND NOTES:

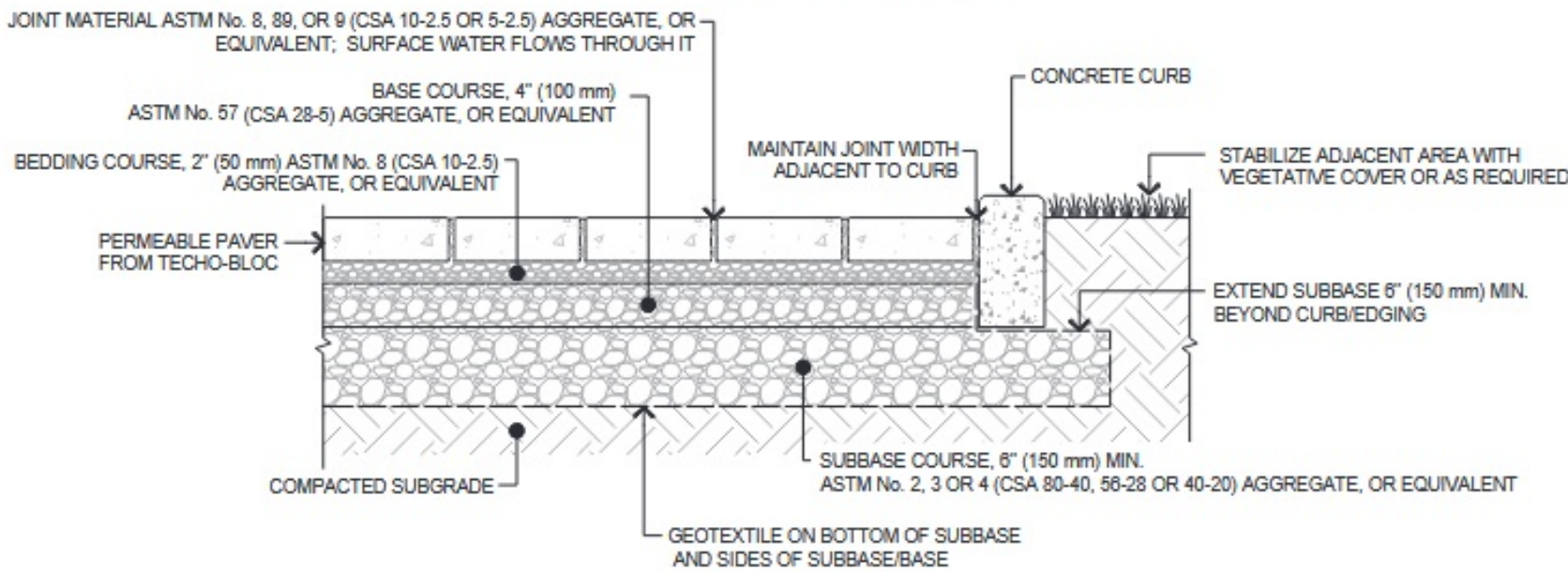
1. DO NOT TRAFFIC EXPOSED SOIL SURFACE WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE, PERFORM EXCAVATION WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION SYSTEM.
2. AFTER THE INFILTRATION SYSTEM AREA IS EXCAVATED TO THE FINAL DESIGN ELEVATION, THE FLOOR SHOULD BE DEEPLY TILLED WITH A ROTARY TILLER OR DISC HARROW TO RESTORE INFILTRATION RATES, FOLLOWED BY A PASS WITH A LEVELING DRAG.
3. DO NOT PLACE INFILTRATION SYSTEM INTO SERVICE UNTIL THE CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.

INFILTRATION POND DETAIL

NOT TO SCALE

INSTALLATION GUIDE

PERMEABLE PAVER - FULL INFILTRATION TO SOIL SUBGRADE



NOTES:

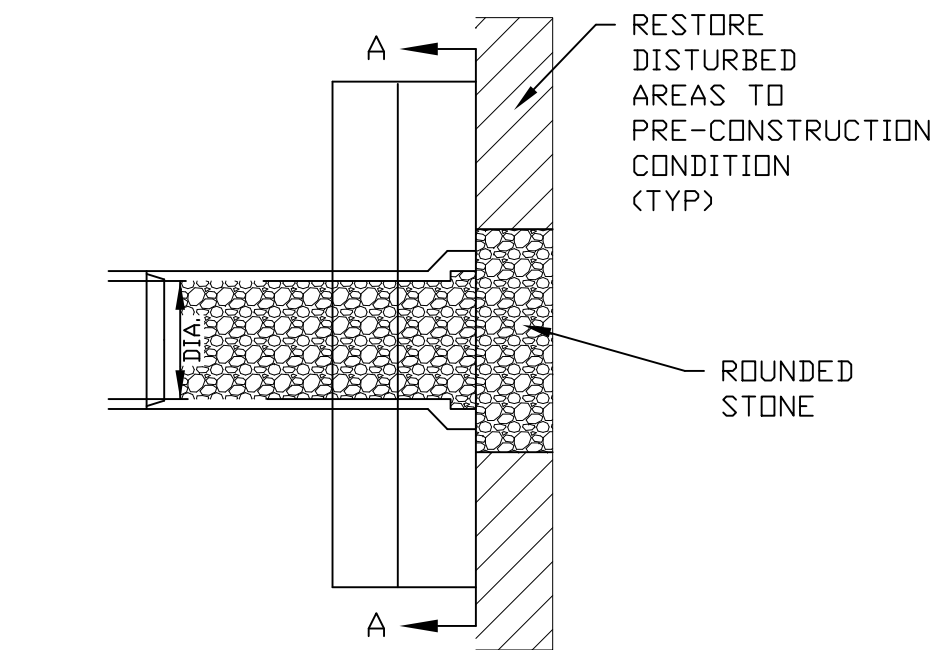
1. SEE MANUFACTURER'S SPECIFICATIONS FOR ADDITIONAL INSTALLATION REQUIREMENTS.
2. PAVERS SHALL BE PERMEABLE PATIO SLABS BY TECO-BLOC, OR EQUIVALENT.
3. OWNER TO SELECT FINAL FINISH AND COLOR.

MAINTENANCE NOTES:

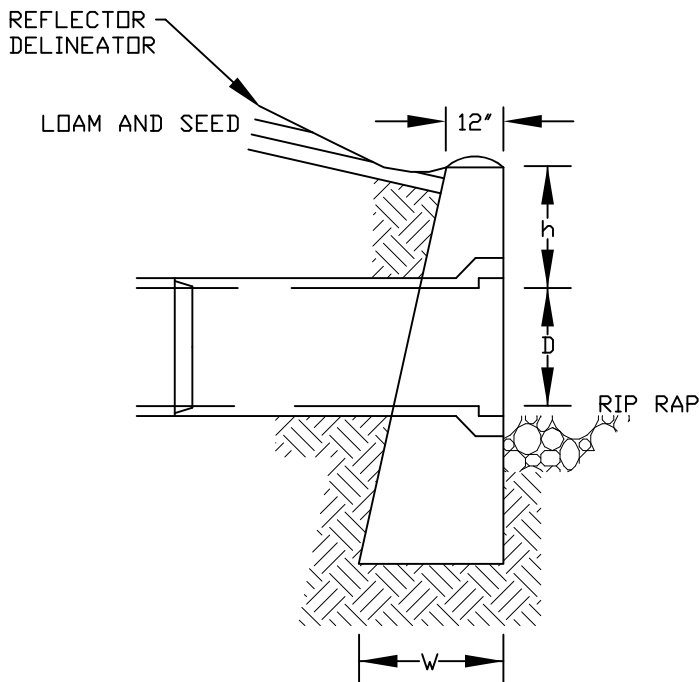
1. INSPECT THE PERVIOUS PAVER SYSTEM SEASONALLY AND AFTER LARGE STORMS, LOOKING FOR SIGNS OF CLOGGING SUCH AS PONDING AT THE SURFACE OR ACCUMULATED SEDIMENT.
2. IF CLOGGING OCCURS, REMOVE AND WASH OR REPLACE MATERIAL BETWEEN PAVERS. REMOVE ANY VEGETATIVE GROWTH BETWEEN PAVERS.

PERVIOUS PAVERS

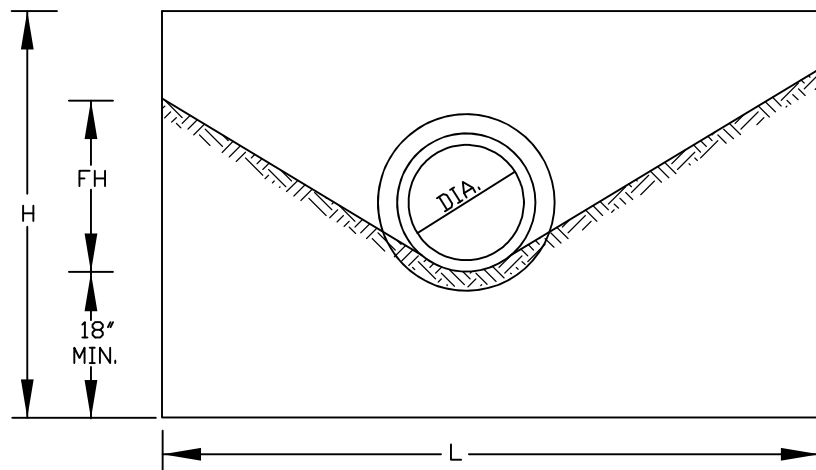
NOT TO SCALE



- NOTE:
1. ALL DIMENSIONS GIVEN IN FEET AND INCHES EXCEPT PIPE DIAMETER.
2. PROVIDE BELL END AT INLET HEADWALL, AND SPIGOT END AT OUTLET END HEADWALL.
3. RIP-RAP SHALL BE SIZED TO RESIST THE TRACTIVE VELOCITY FORCES.
4. WHERE MULTIPLE CULVERTS ARE LOCATED, CULVERT SEPARATION SHALL BE MINIMUM 1/2 DIAMETER OF CULVERTS.



LONGITUDINAL SECTION



SECTION A-A

CONCRETE HEADWALL DETAIL

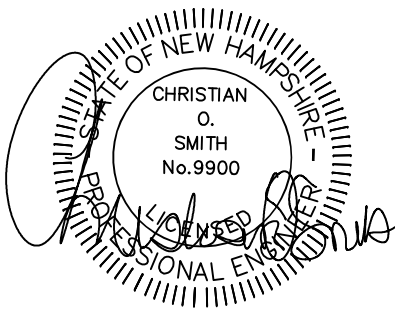
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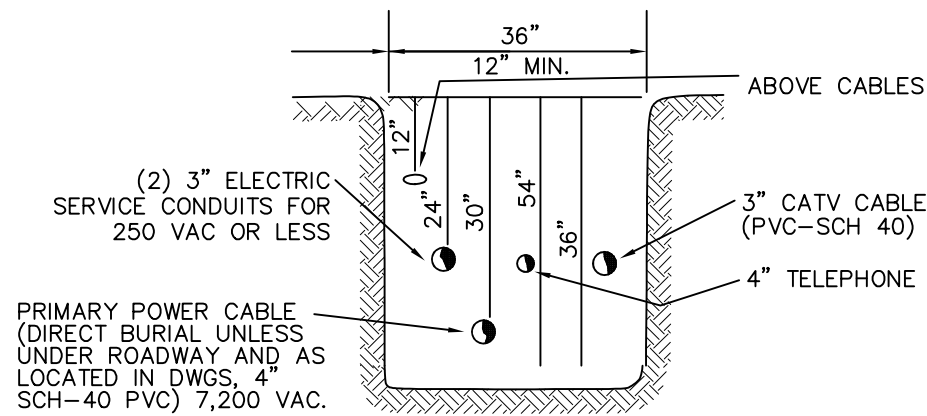


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CONSTRUCTION DETAILS

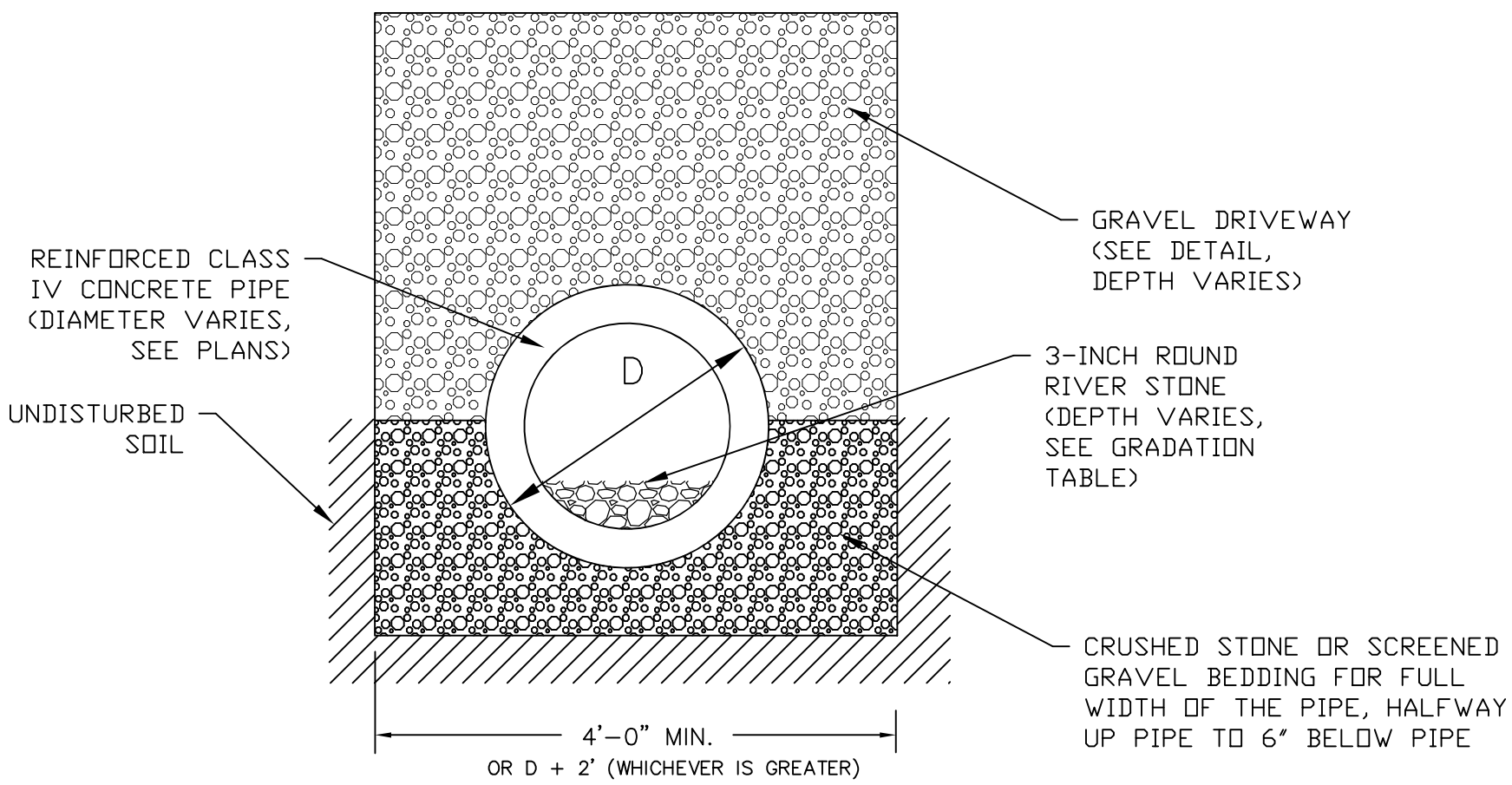
PLAN FOR:
BACK ROAD
DOVER, NH

DATE:	AUGUST 2, 2024	SCALE:	NTS
PROJ. NO:	NH-1501	SHEET NO.	25



- NOTES:
1. ALL UTILITIES SHALL BE REVIEWED AND APPROVED BY APPROPRIATE UTILITY COMPANY.
 2. ELECTRIC SERVICE SHALL BE IN SCH 40 PVC EXCEPT UNDER THE UTILITY EASEMENT WHERE IT SHALL BE SCH 80 PVC. WHERE 90 DEGREE SWEEPS ARE REQUIRED THE MATERIAL SHALL BE GALVANIZED RIGID CONDUIT.
 3. TELEPHONE, CATV, AND OTHER CABLES SHALL BE NO CLOSER THAN 12" TO ELECTRIC CONDUITS.

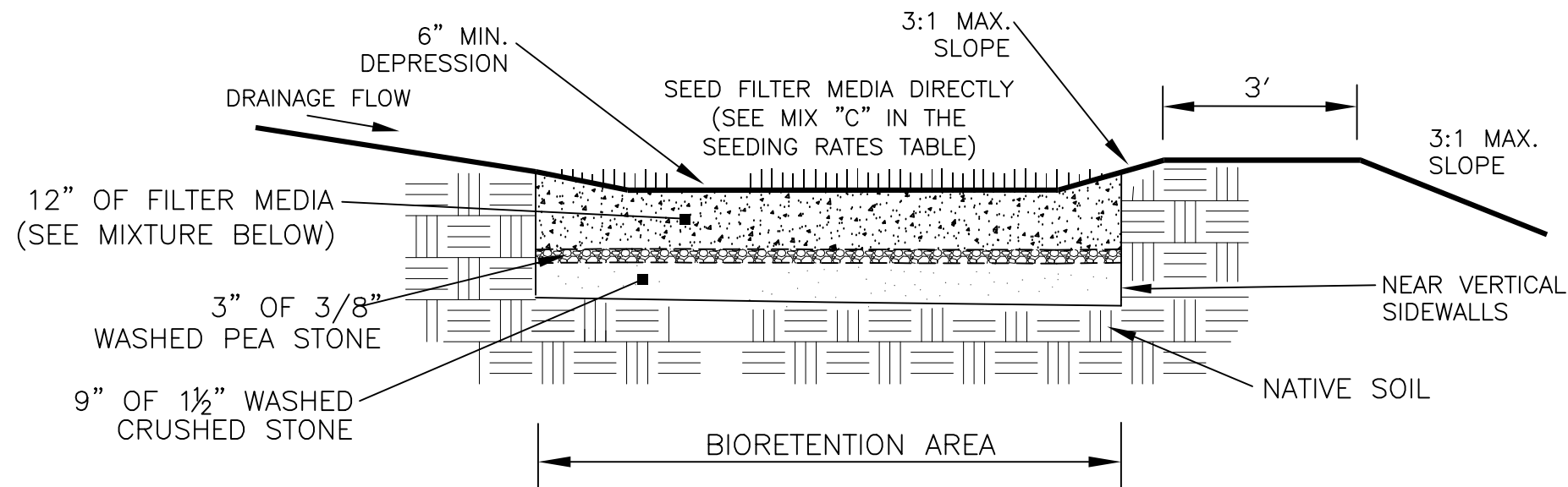
UTILITY TRENCH DETAIL



RECOMMENDED RIVER STONE GRADATION RANGES			
MIN. THICKNESS OF STONE BED = 0.50 FEET			
Ø50 SIZE =	0.25	FEET	3 INCHES
% OF WEIGHT SMALLER THAN THE GIVEN Ø50 SIZE		SIZE OF STONE (INCHES) FROM	TO
100%		4.5	6
85%		4	4.5
50%		2	4
15%		1	2

TYPICAL DRAINAGE TRENCH DETAIL
AT DRIVEWAY WETLAND CROSSINGS

NOT TO SCALE



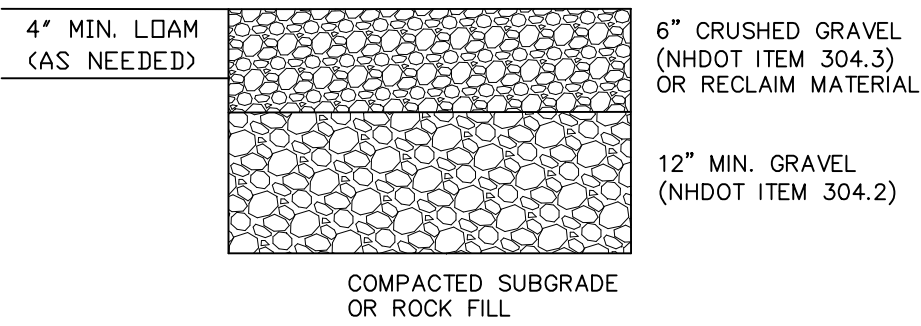
FILTER MEDIA MIXTURE:	
-	20% COMPOST/FINELY SHREDDED BARK OR WOOD MULCH W/ <5% PASSING THE #200 SIEVE
-	30% LOAMY TOPSOIL
-	50% SANDY SOIL (SAND PORTION SHALL BE ASTM C33 FINE AGGREGATE)

BIORETENTION POND NOTES:

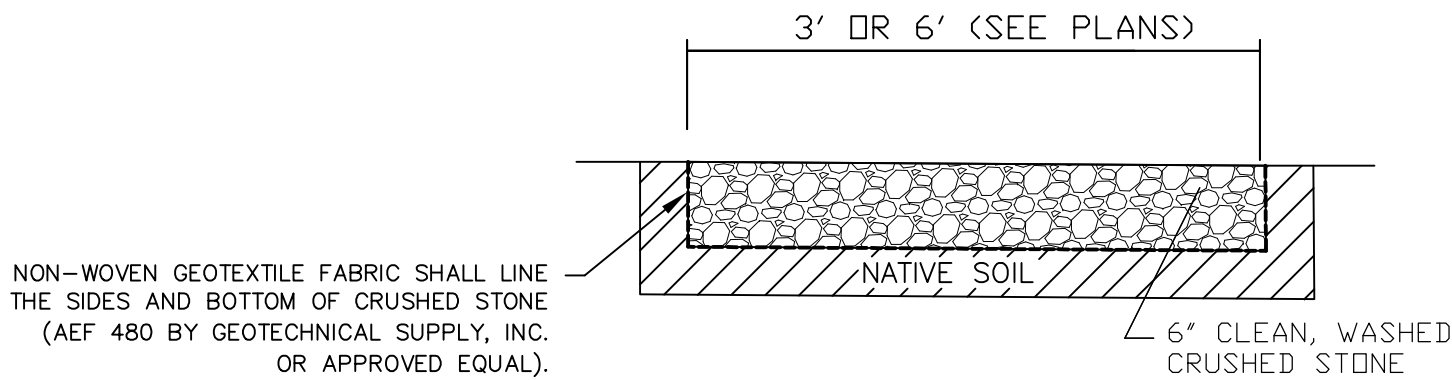
1. DO NOT TRAFFIC EXPOSED SOIL SURFACE WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE, PERFORM EXCAVATION WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION COMPONENTS OF THE SYSTEM.
2. AFTER THE INFILTRATION SYSTEM AREA IS EXCAVATED TO THE FINAL DESIGN ELEVATION, THE FLOOR SHOULD BE DEEPLY TILLED WITH A ROTARY TILLER OR DISC HARROW TO RESTORE INFILTRATION RATES, FOLLOWED BY A PASS WITH A LEVELING DRAG.
3. DO NOT DISCHARGE SEDIMENT-LADEN WATERS FROM CONSTRUCTION ACTIVITIES (RUNOFF, WATER FROM EXCAVATIONS) TO THE BIO-RETENTION AREA DURING ANY STAGE OF CONSTRUCTION.
4. DO NOT PLACE INFILTRATION SYSTEM INTO SERVICE UNTIL THE BIORETENTION POND HAS BEEN PLANTED AND CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.
5. BIORETENTION POND'S FILTER MEDIA CAN BE SEEDED DIRECTLY WITHOUT ADDITIONAL LOAM.

BIORETENTION POND DETAIL

NOT TO SCALE



TYPICAL GRAVEL SECTION

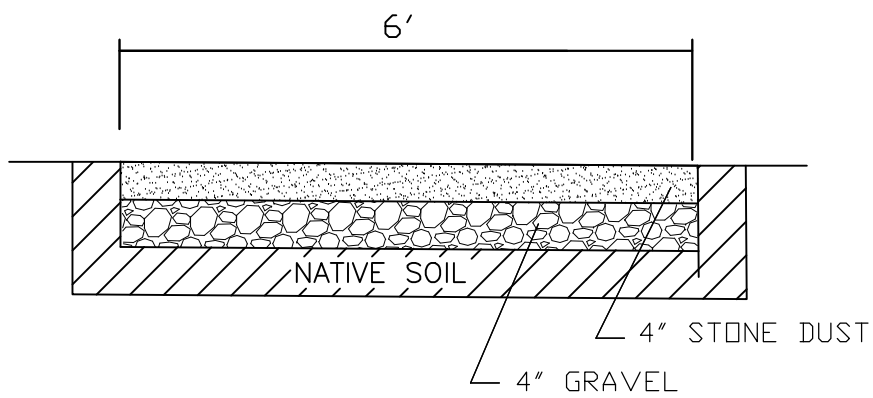


MAINTENANCE NOTES:

1. INSPECT THE CRUSHED STONE WALKWAYS SEASONALLY AND AFTER LARGE STORMS, LOOKING FOR SIGNS OF CLOGGING SUCH AS PONDING AT THE SURFACE OR ACCUMULATED SEDIMENT.
2. IF CLOGGING OCCURS, REMOVE AND WASH OR REPLACE MATERIAL. REMOVE ANY VEGETATIVE GROWTH BETWEEN STONES.

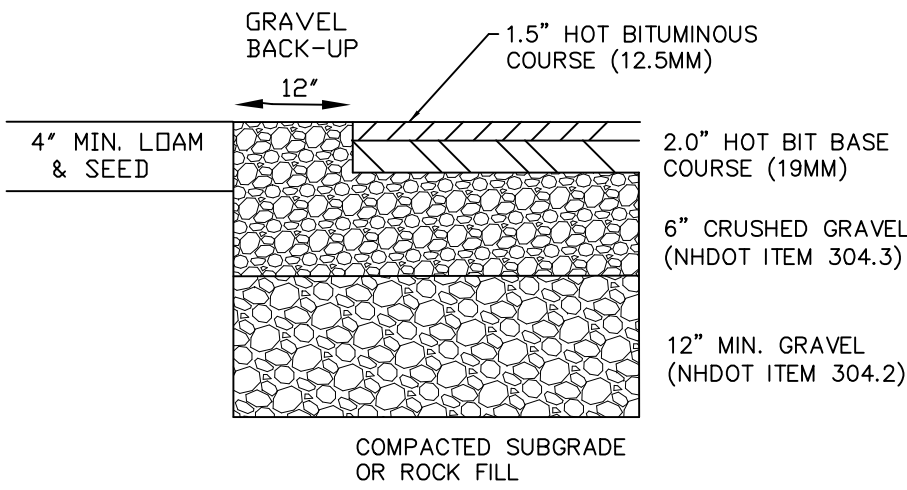
WALKWAY SECTION
(CRUSHED STONE INSIDE TBZ)

NOT TO SCALE



WALKWAY SECTION
(STONE DUST OUTSIDE TBZ)

NOT TO SCALE



- NOTES: * IN AREAS OF BEDROCK, MINIMUM 24" SEPARATION FROM BANK RUN GRAVEL
* PAVEMENT TRENCH PATCH SHALL MATCH EXISTING PAVEMENT DEPTHS.

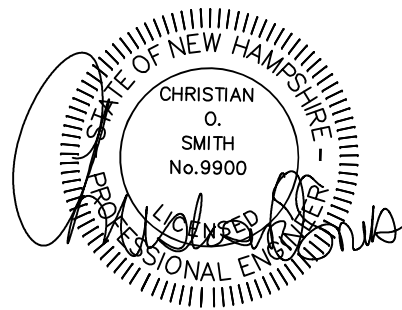
TYPICAL PAVEMENT SECTION

NEW ASPHALT

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DATE: AUGUST 2, 2024	SCALE: NTS
PROJ. NO: NH-1501	SHEET NO. 26