

From: [Mauck, Ridgely](#)
To: [Sherrie Trefry](#)
Cc: [Wadiak, Kathleen](#)
Subject: 23-01-08 Z180 Transmission Line Rebuild
Date: Sunday, January 8, 2023 11:04:50 AM
Attachments: [NHB22-2179 Z180 NHFG Recommendations .msg](#)
[RE NHB22-2179 Z180 NHFG Recommendations .msg](#)

Hi Sherrie,

Following up on our conversation of last Friday, I've attached two emails from Kat Wadiak that provide some further discussion/explanation of the intent of the first bulleted condition in Kat's October 19, 2022 email which contained NHFG recommendations/conditions for the subject project. That said, I find it confusing that the bullet/condition references a document "Z180 NHFG Correspondence Memo updated 10-18-22" (and it was transmitted by Kurt Nelson on 10-18-22) but the document includes a memo dated August 15, 2022 (with signature line dated August 15, 2022). If the first bulleted condition is to remain (I suggest you talk directly with Kat to resolve this), I recommend the memo reference be " Z180 NHFG Correspondence Memo dated August 15, 2022, updated 10-18-22", or reissue the memo with a revision date so everyone can be sure there are not conflicting memos with the same date of August 15, 2022.

Regards,
Ridge

Ridgely Mauck, P.E.
Alteration of Terrain Bureau, Land Resources Management
Water Division, NH Dept. of Environmental Services
PO Box 95, 29 Hazen Drive
Concord, NH 03302
(603)271-2303
AoT webpage: <https://www.des.nh.gov/land/land-development>

From: Wadiak, Kathleen
Sent: Fri, 6 Jan 2023 19:54:10 +0000
To: Mauck, Ridgely
Cc: Winters, Melissa
Subject: NHB22-2179 Z180 NHFG Recommendations
Attachments: RE: [External] RE: NHF&G FIS 1004 Consultation Request for Eversource Z-180 Line Rebuild Project in Holderness and Campton NHB22-2179

Hey Ridge,

That document I reference, "Z180 NHFG Correspondence Memo updated 10-18-22," is the document that includes Eversource's proposed conservation measures. They begin on the second page under "Eversource proposed the following conservation measures..." I had correspondence with Eversource to correct the initial ones that they submitted, which were not in line with what NHFG was recommending. Sometimes, Eversource creates a BMP document for T&E species that include their proposed conservation measures, so I wanted make sure that what they were proposing matched the basics of our recommendations (for example, corrected date ranges and corrected instructions on how to handle encountering a T&E species). That being said, the bullets listed under that point address what NHFG recommends as permit conditions and includes further details and some additional recommendations. I've attached my email thread with Kurt and Sherrie for context, but feel free to give me a call with any other questions. We've had a changing process lately as we're working with Eversource and going back and forth with ideas on streamlining consultation.

Thanks,
Kat

From: Nelson, Kurt I
Sent: Tue, 18 Oct 2022 20:07:04 +0000
To: Wadiak, Kathleen; Sherrie Trefry
Cc: Winters, Melissa; Andrew Mahoney; Newell, Bradley D; FGC: NHFG review
Subject: RE: [External] RE: NHF&G FIS 1004 Consultation Request for Eversource Z-180
Line Rebuild Project in Holderness and Campton NHB22-2179
Attachments: Z180 NHFG Correspondence Memo updated 10-18-22.pdf

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Hi Kat,

Please see the updated correspondence memo.

Thank you.

Kurt I. Nelson
Sr. Land Use Licensing & Permitting Specialist



13 Legends Drive
Hooksett, NH 03106
(603) 714-3031 (cell) (603) 634-3256 (office)
Kurt.nelson@eversource.com

From: Wadiak, Kathleen <Kathleen.P.Wadiak@wildlife.nh.gov>
Sent: Tuesday, October 18, 2022 8:46 AM
To: Nelson, Kurt I <kurt.nelson@eversource.com>; Sherrie Trefry <STrefry@VHB.com>
Cc: Winters, Melissa <Melissa.J.Winters@wildlife.nh.gov>; Andrew Mahoney <amahoney@vhb.com>;
Newell, Bradley D <bradley.newell@eversource.com>; FGC: NHFG review
<NHFGreview@wildlife.nh.gov>
Subject: RE: [External] RE: NHF&G FIS 1004 Consultation Request for Eversource Z-180 Line Rebuild
Project in Holderness and Campton NHB22-2179

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Hi Kurt,

Thanks for making the changes. I think some of my edits were missed. Wood turtle nesting season may extend beyond June 15th. It should be considered to be until July 15th, and personnel should be made aware of the potential to encounter nesting turtles until then. The point regarding inspecting areas prior to mowing, matting, and/or gravel placement was also left off in the most recent version. Please include this point in addition to my comment about sweeps being conducted immediately prior to work start and equipment movement.

Thanks,
Kat

From: Nelson, Kurt I <kurt.nelson@eversource.com>
Sent: Friday, October 14, 2022 11:49 AM
To: Wadiak, Kathleen <Kathleen.P.Wadiak@wildlife.nh.gov>; Sherrie Trefry <STrefry@VHB.com>
Cc: Winters, Melissa <Melissa.J.Winters@wildlife.nh.gov>; Andrew Mahoney <amahoney@vhb.com>;
Newell, Bradley D <bradley.newell@eversource.com>; FGC: NHFG review
<NHFGreview@wildlife.nh.gov>
Subject: RE: [External] RE: NHF&G FIS 1004 Consultation Request for Eversource Z-180 Line Rebuild Project in Holderness and Campton NHB22-2179

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Hi Kat,

Please see the updated document incorporating NHF&G's comments. I have also standardized the protection measures listed in Sections 7 and 12.

Thank you.

Kurt I. Nelson
Sr. Land Use Licensing & Permitting Specialist



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Kurt.nelson@eversource.com

From: Wadiak, Kathleen <Kathleen.P.Wadiak@wildlife.nh.gov>
Sent: Wednesday, October 12, 2022 12:52 PM
To: Nelson, Kurt I <kurt.nelson@eversource.com>; Sherrie Trefry <STrefry@VHB.com>
Cc: Winters, Melissa <Melissa.J.Winters@wildlife.nh.gov>; Andrew Mahoney <amahoney@vhb.com>;
Newell, Bradley D <bradley.newell@eversource.com>; FGC: NHFG review
<NHFGreview@wildlife.nh.gov>

Subject: RE: [External] RE: NHF&G FIS 1004 Consultation Request for Eversource Z-180 Line Rebuild Project in Holderness and Campton NHB22-2179

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Thanks for the clarification. NHFG is finalizing recommendations for the Z-180 structure replacement project. Please make the edits in my comments in the attached document.

Let me know if you have any questions or concerns.

Thanks,
Kat

From: Nelson, Kurt I <kurt.nelson@eversource.com>
Sent: Thursday, September 29, 2022 4:12 PM
To: Sherrie Trefry <STrefry@VHB.com>; Wadiak, Kathleen <Kathleen.P.Wadiak@wildlife.nh.gov>
Cc: Winters, Melissa <Melissa.J.Winters@wildlife.nh.gov>; Andrew Mahoney <amahoney@vhb.com>;
Newell, Bradley D <bradley.newell@eversource.com>; FGC: NHFG review <NHFGreview@wildlife.nh.gov>
Subject: RE: [External] RE: NHF&G FIS 1004 Consultation Request for Eversource Z-180 Line Rebuild Project in Holderness and Campton NHB22-2179

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Hi Kat,

Sorry again for the confusion. For additional information –

Please note that starting at the Huckins Hill Substation, we have updated the structure numbering to start at "1" vs "284" as is currently the case. The old structure numbers are provided on the updated plan set for reference.

There are currently a total of 38 existing transmission structures on the Z-180 circuit – 9 of which are steel. On the latest revision, it was determined that one of the steel structure (294/11) also needs replacement due to design requirements.

So in summary:

- 28 wood structures will be replaced
- 1 wood structure (301) will be removed entirely; and
- 1 steel structure (294/11) will be replaced.

Thanks

Kurt I. Nelson
Sr. Land Use Licensing & Permitting Specialist



13 Legends Drive
Hooksett, NH 03106
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Kurt.nelson@eversource.com

From: Sherrie Trefry <STrefry@VHB.com>
Sent: Thursday, September 29, 2022 3:53 PM
To: Wadiak, Kathleen <Kathleen.P.Wadiak@wildlife.nh.gov>; Nelson, Kurt I <kurt.nelson@eversource.com>
Cc: Winters, Melissa <Melissa.J.Winters@wildlife.nh.gov>; Andrew Mahoney <amahoney@vhb.com>; Newell, Bradley D <bradley.newell@eversource.com>; FGC: NHFG review <NHFGreview@wildlife.nh.gov>
Subject: RE: [External] RE: NHF&G FIS 1004 Consultation Request for Eversource Z-180 Line Rebuild Project in Holderness and Campton NHB22-2179

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Good afternoon Kat,

I think I can be of assistance. The plan set dated 9/28 is the approved project plan with revisions from the latest site walk. There are 29 remaining wood pole structures to be replaced as originally stated. The poles with smaller work pads have previously been replaced as part of Eversource's Asset Condition Refurbishment (ACP) program and will only be accessed to change out the conductor and shield wire as part of the proposed complete rebuild of the Z80 line.

In addition, existing Structure 301 is being removed and the entire line is being renumbered during the rebuild (as indicated by the red numbers).

In the Z180 Folder, the Z180 NHFG Correspondence Package was the original submittal before the plans were revised. I will remove that document from the folder to eliminate any confusion.

Thanks, Sherrie

Sherrie Trefry, CSS

Energy Market
Leader

P 603.391.3951

www.vhb.com

From: Wadiak, Kathleen <Kathleen.P.Wadiak@wildlife.nh.gov>
Sent: Thursday, September 29, 2022 2:58 PM
To: Kurt I. Nelson <kurt.nelson@eversource.com>
Cc: Winters, Melissa <Melissa.J.Winters@wildlife.nh.gov>; Sherrie Trefry <STrefry@VHB.com>; Andrew Mahoney <amahoney@vhb.com>; Newell, Bradley D <bradley.newell@eversource.com>; FGC: NHFG review <NHFGreview@wildlife.nh.gov>
Subject: [External] RE: NHF&G FIS 1004 Consultation Request for Eversource Z-180 Line Rebuild Project in Holderness and Campton NHB22-2179

Hi Kurt,

The original submission stated that 29 structures were being replaced, but the latest packet stated that 39 were being replaced. The sets of plan sheets in the latest submission also don't match each other. How many structures are proposed to be replaced as part of this project? Please confirm which plan set is the correct and most up-to-date version so we can continue review.

Thanks,
Kat

From: Nelson, Kurt I <kurt.nelson@eversource.com>
Sent: Thursday, September 29, 2022 9:49 AM
To: Wadiak, Kathleen <Kathleen.P.Wadiak@wildlife.nh.gov>
Cc: Winters, Melissa <Melissa.J.Winters@wildlife.nh.gov>; Sherrie Trefry <STrefry@VHB.com>; Andrew Mahoney <amahoney@vhb.com>; Newell, Bradley D <bradley.newell@eversource.com>; FGC: NHFG review <NHFGreview@wildlife.nh.gov>
Subject: RE: NHF&G FIS 1004 Consultation Request for Eversource Z-180 Line Rebuild Project in Holderness and Campton NHB22-2179

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Hi Kat,

Yes there have been some modifications to access routes, work pads and pull pad locations.

Kurt I. Nelson
Sr. Land Use Licensing & Permitting Specialist



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Kurt.nelson@eversource.com

From: Wadiak, Kathleen <Kathleen.P.Wadiak@wildlife.nh.gov>
Sent: Wednesday, September 28, 2022 3:23 PM
To: Nelson, Kurt I <kurt.nelson@eversource.com>
Cc: Winters, Melissa <Melissa.J.Winters@wildlife.nh.gov>; Sherrie Trefry <STrefry@VHB.com>; Andrew Mahoney <amahoney@vhb.com>; Newell, Bradley D <bradley.newell@eversource.com>; FGC: NHFG review <NHFGreview@wildlife.nh.gov>
Subject: RE: NHF&G FIS 1004 Consultation Request for Eversource Z-180 Line Rebuild Project in Holderness and Campton NHB22-2179

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Thanks, Kurt. I'll review this new information. Do the updated plan sheets include the changes to access route and work pad locations that you mentioned in your 8/31 email?

Kat

From: Nelson, Kurt I <kurt.nelson@eversource.com>
Sent: Wednesday, September 28, 2022 1:56 PM
To: Wadiak, Kathleen <Kathleen.P.Wadiak@wildlife.nh.gov>
Cc: Winters, Melissa <Melissa.J.Winters@wildlife.nh.gov>; Sherrie Trefry <STrefry@VHB.com>; Andrew Mahoney <amahoney@vhb.com>; Newell, Bradley D <bradley.newell@eversource.com>; FGC: NHFG review <NHFGreview@wildlife.nh.gov>
Subject: RE: NHF&G FIS 1004 Consultation Request for Eversource Z-180 Line Rebuild Project in Holderness and Campton NHB22-2179

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Hi Kat,

Here is a link to the updated project maps for the Z-180 line rebuild project.

 [Z180](#)

Also below are some photos of the Durgin Brook crossing:



View facing north of the Durgin Brook – which is bound by the patch of Alders in the background.



An instream view of the Durgin Brook facing east.

We have re-assessed our options with ROW access in this area. Despite the challenging grades we will endeavor an in- or off-ROW access route to access the structures south of Durgin Brook as shown on the updated plan set if the project schedule cannot accommodate a time of year requirement to lay matting across Durgin Brook after May 15th.

Let me know if you would like to have any further discussion on this topic.

Thanks.

Kurt I. Nelson
Sr. Land Use Licensing & Permitting Specialist



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Kurt.nelson@eversource.com

From: Wadiak, Kathleen <Kathleen.P.Wadiak@wildlife.nh.gov>
Sent: Thursday, September 1, 2022 3:41 PM
To: Nelson, Kurt I <kurt.nelson@eversource.com>
Cc: Winters, Melissa <Melissa.J.Winters@wildlife.nh.gov>; Sherrie Trefry <STrefry@VHB.com>; Andrew Mahoney <amahoney@vhb.com>; Ford, Michelle T <michelle.ford@eversource.com>; Newell, Bradley D <bradley.newell@eversource.com>; FGC: NHFG review <NHFGreview@wildlife.nh.gov>; Roy Sheehan <roy.sheehan@eversource.com>
Subject: RE: NHF&G FIS 1004 Consultation Request for Eversource Z-180 Line Rebuild Project in Holderness and Campton NHB22-2179

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That would be helpful, thanks. We will wait on the updated plan sheets, photos of the Durgin Brook crossing, and information on access alternatives.

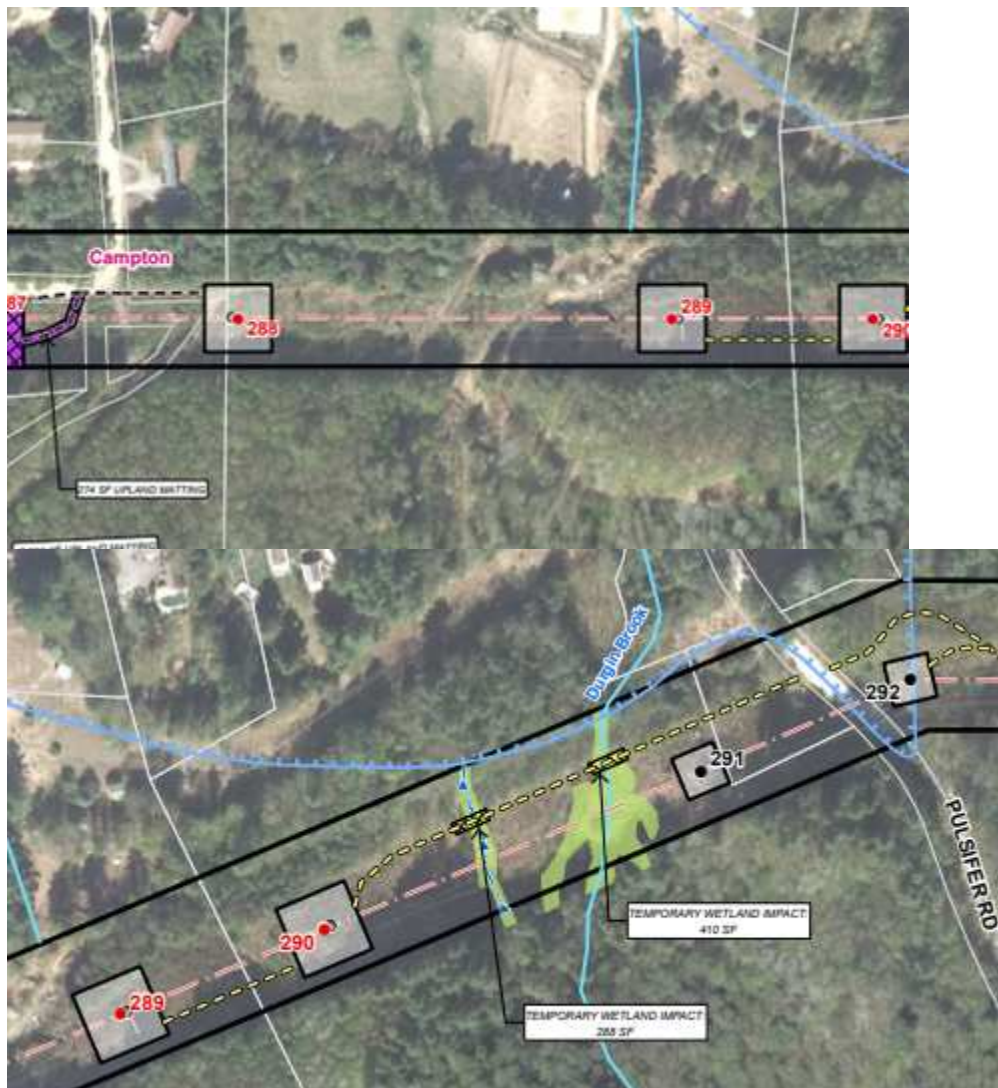
Thanks,
Kat

From: Nelson, Kurt I <kurt.nelson@eversource.com>
Sent: Thursday, September 1, 2022 1:14 PM
To: Wadiak, Kathleen <Kathleen.P.Wadiak@wildlife.nh.gov>
Cc: Winters, Melissa <Melissa.J.Winters@wildlife.nh.gov>; Sherrie Trefry <STrefry@VHB.com>; Andrew Mahoney <amahoney@vhb.com>; Ford, Michelle T <michelle.ford@eversource.com>; Newell, Bradley D <bradley.newell@eversource.com>; FGC: NHFG review <NHFGreview@wildlife.nh.gov>; Roy Sheehan <roy.sheehan@eversource.com>
Subject: RE: NHF&G FIS 1004 Consultation Request for Eversource Z-180 Line Rebuild Project in Holderness and Campton NHB22-2179

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Hi Kat,

We will make sure the next iteration of the plan set shows topographical contours. There is an extremely steep slope between Structures 288 and 289 with some excavation on the slope and is the reason we proposed coming from the north off of Pulsifer Road to access Str 289. It appears there maybe an access with a more moderate approach that goes through the wood line on the west side between Str 288 and 289 that leads to Str 290. Not sure if this access is entirely within our Right of Way. If not we would need land owner permission to utilize this alternative access Route. We'll investigate this. We'll also take some photos of the Durgin Brook Crossing area to allow for a better assessment of the habitat characteristics.





Kurt I. Nelson
Sr. Land Use Licensing & Permitting Specialist



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Kurt.nelson@eversource.com

From: Wadiak, Kathleen <Kathleen.P.Wadiak@wildlife.nh.gov>
Sent: Thursday, September 1, 2022 11:57 AM
To: Nelson, Kurt I <kurt.nelson@eversource.com>
Cc: Winters, Melissa <Melissa.J.Winters@wildlife.nh.gov>; Sherrie Trefry <STrefry@VHB.com>; Andrew Mahoney <amahoney@vhb.com>; Ford, Michelle T <michelle.ford@eversource.com>; Newell, Bradley D <bradley.newell@eversource.com>; FGC: NHFG review <NHFGreview@wildlife.nh.gov>
Subject: RE: NHF&G FIS 1004 Consultation Request for Eversource Z-180 Line Rebuild Project in Holderness and Campton NHB22-2179

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Ok, thanks. I will wait until you send the updated plans to continue review. If tree clearing is proposed on the northern half of the line, the following voluntary conservation measures should be considered for bats:

- Avoid clearing suitable spring staging and fall swarming habitat within a 5-mile radius of known or assumed northern long-eared bat hibernacula during the staging and swarming seasons (April 1 to May 15 and August 15 to November 14, respectively).
- Conduct tree removal activities outside of the northern long-eared bat pup season (June 1 to July 31) and/or the active season (April 1 to October 31). This will minimize impacts to pups at roosts not yet identified.
- Manage forests to ensure a continual supply of snags and other suitable maternity roost trees.

Can the Durgin Brook crossing be avoided completely by using other access?

Thanks,
Kat

From: Nelson, Kurt I <kurt.nelson@eversource.com>
Sent: Wednesday, August 31, 2022 3:27 PM
To: Wadiak, Kathleen <Kathleen.P.Wadiak@wildlife.nh.gov>
Cc: Winters, Melissa <Melissa.J.Winters@wildlife.nh.gov>; Sherrie Trefry <STrefry@VHB.com>; Andrew Mahoney <amahoney@vhb.com>; Ford, Michelle T <michelle.ford@eversource.com>; Newell, Bradley D <bradley.newell@eversource.com>; FGC: NHFG review <NHFGreview@wildlife.nh.gov>
Subject: RE: NHF&G FIS 1004 Consultation Request for Eversource Z-180 Line Rebuild Project in Holderness and Campton NHB22-2179

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Hi Kat,

You are correct in that we will not be traversing the Beebe River/wetland complex area. The target for start of construction is February 2023. Given the location of the Durgin Brook crossing it may be difficult to hold off on access until May 1. If there are alternatives to a Time of Year Restriction at this location, it would be preferable.

FYI – we have recently conducted another field review of the project and have some changes to the access routes and work pad locations. We have also identified a few other areas requiring tree removal/trimming on the ROW edge. I will provide you with an updated plan set once it is available.

Kurt I. Nelson
Sr. Land Use Licensing & Permitting Specialist



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Kurt.nelson@eversource.com

From: Wadiak, Kathleen <Kathleen.P.Wadiak@wildlife.nh.gov>
Sent: Wednesday, August 31, 2022 2:45 PM
To: Nelson, Kurt I <kurt.nelson@eversource.com>
Cc: Winters, Melissa <Melissa.J.Winters@wildlife.nh.gov>; Sherrie Trefry <STrefry@VHB.com>; Andrew Mahoney <amahoney@vhb.com>; Ford, Michelle T <michelle.ford@eversource.com>; Newell, Bradley D <bradley.newell@eversource.com>; FGC: NHFG review <NHFGreview@wildlife.nh.gov>
Subject: RE: NHF&G FIS 1004 Consultation Request for Eversource Z-180 Line Rebuild Project in Holderness and Campton NHB22-2179

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Kurt,

The Beebe River and Durgin Brook within this project area are of particular concern to have potential wood turtle hibernacula. As work is proposed during the winter, matting placement could impact turtles that are wintering in these areas. It doesn't look like there are proposed impacts to the Beebe River; please confirm. There is currently matting proposed in Durgin Brook. Is there a way to avoid this? Can matting be placed prior to September 15th or after May 1?

Thanks,
Kat

From: Nelson, Kurt I <kurt.nelson@eversource.com>
Sent: Wednesday, August 17, 2022 1:46 PM
To: Wadiak, Kathleen <Kathleen.P.Wadiak@wildlife.nh.gov>
Cc: Winters, Melissa <Melissa.J.Winters@wildlife.nh.gov>; Sherrie Trefry <STrefry@VHB.com>; Andrew Mahoney <amahoney@vhb.com>; Ford, Michelle T <michelle.ford@eversource.com>; Newell, Bradley D <bradley.newell@eversource.com>; FGC: NHFG review <NHFGreview@wildlife.nh.gov>
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Got it. Thanks for the feedback, Kat.

Kurt I. Nelson
Sr. Land Use Licensing & Permitting Specialist



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Kurt.nelson@eversource.com

From: Wadiak, Kathleen <Kathleen.P.Wadiak@wildlife.nh.gov>
Sent: Wednesday, August 17, 2022 1:36 PM
To: Nelson, Kurt I <kurt.nelson@eversource.com>
Cc: Winters, Melissa <Melissa.J.Winters@wildlife.nh.gov>; Sherrie Trefry <STrefry@VHB.com>; Andrew Mahoney <amahoney@vhb.com>; Ford, Michelle T <michelle.ford@eversource.com>; Newell, Bradley D <bradley.newell@eversource.com>; FGC: NHFG review <NHFGreview@wildlife.nh.gov>
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Hi Kurt,

Thanks for the information. Please note that the permits listed on the NHB datacheck letter application have an impact on the records that end up getting listed on the final letter. This is why it's particularly important that these are accurate, especially in a case where an AoT is expected. In this case, the results would not change, so we will continue review, but I just wanted to point that out for future consideration. Let me know if you have any questions.

Thanks,
Kat

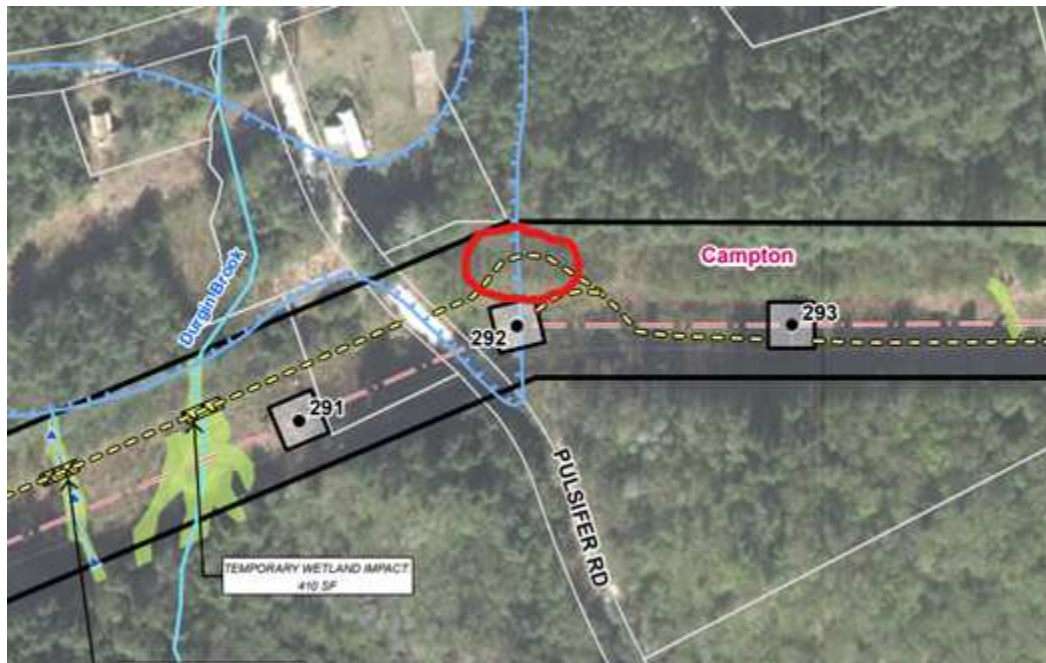
From: Nelson, Kurt I <kurt.nelson@eversource.com>
Sent: Wednesday, August 17, 2022 1:24 PM
To: Wadiak, Kathleen <Kathleen.P.Wadiak@wildlife.nh.gov>
Cc: Winters, Melissa <Melissa.J.Winters@wildlife.nh.gov>; Sherrie Trefry <STrefry@VHB.com>; Andrew Mahoney <amahoney@vhb.com>; Ford, Michelle T <michelle.ford@eversource.com>; Newell, Bradley D <bradley.newell@eversource.com>; FGC: NHFG review <NHFGreview@wildlife.nh.gov>
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Hi Kat,

Yes, this project will require an AoT permit. There is one area of minor tree clearing (mostly small diameter trees) proposed to facilitate access around an existing angle structure (Str 292) that will have a temporary pole and guy wire installation. The area is shown below.

Thanks



Kurt I. Nelson
Sr. Land Use Licensing & Permitting Specialist



13 Legends Drive
Hooksett, NH 03106
(603) 714-3031 (cell) (603) 634-3256 (office)
Kurt.nelson@eversource.com

From: Wadiak, Kathleen <Kathleen.P.Wadiak@wildlife.nh.gov>
Sent: Wednesday, August 17, 2022 12:36 PM
To: Nelson, Kurt I <kurt.nelson@eversource.com>
Cc: Winters, Melissa <Melissa.J.Winters@wildlife.nh.gov>; Sherrie Trefry <STrefry@VHB.com>; Andrew Mahoney <amahoney@vhb.com>; Ford, Michelle T <michelle.ford@eversource.com>; Newell, Bradley D <bradley.newell@eversource.com>; FGC: NHFG review <NHFGreview@wildlife.nh.gov>
Subject: RE: NHF&G FIS 1004 Consultation Request for Eversource Z-180 Line Rebuild Project in Holderness and Campton NHB22-2179

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Hi Kurt,

NHFG is in the process of reviewing NHB22-2179, the utility structure replacement project in Campton. Can you please verify that an AoT is required? It was not listed on the NHB Datacheck letter, but the submission says that it will require one.

Are any trees proposed to be cleared as part of this project?

Thank you,
Kat

From: Nelson, Kurt I <kurt.nelson@eversource.com>
Sent: Tuesday, August 16, 2022 9:59 AM
To: FGC: NHFG review <NHFGreview@wildlife.nh.gov>
Cc: Winters, Melissa <Melissa.J.Winters@wildlife.nh.gov>; Wadiak, Kathleen <Kathleen.P.Wadiak@wildlife.nh.gov>; Sherrie Trefry <STrefry@VHB.com>; Andrew Mahoney <amahoney@vhb.com>; Ford, Michelle T <michelle.ford@eversource.com>; Newell, Bradley D <bradley.newell@eversource.com>
Subject: NHF&G FIS 1004 Consultation Request for Eversource Z-180 Line Rebuild Project in Holderness and Campton NHB22-2179

EXTERNAL: Do not open attachments or click on links unless you recognize and trust the sender.

Attached please see the consultation request documents pursuant to FIS 1004 for Eversource's Z-180 line rebuild project in Holderness and Campton, NH.

Thank you.

Kurt I. Nelson
Sr. Land Use Licensing & Permitting Specialist



13 Legends Drive
Hooksett, NH 03106
(603) 714-3031 (cell) (603) 634-3256 (office)
Kurt.nelson@eversource.com

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DATE August 15, 2022

TO: NH Fish & Game Department
NHFGreview@wildlife.nh.gov

FROM: Kurt Nelson
Eversource Energy

CC: Melissa Winters, NHF&G
Kathleen Wadiak, NHF&G
Michelle Ford, Eversource
Sherrie Trefry, VHB

SUBJECT: NH F&G Consultation Request
NHB ID: NHB22-2179
Z180 Transmission Line Rebuild

The following information is being provided on behalf of Public Service Company of New Hampshire dba Eversource Energy Services Company (herein Eversource) in accordance with "Part Fis 1004.03(c) Information Required for Consultation,":

(1) *A copy of the department of natural and cultural resources NHB DataCheck tool results letter.*

See Attachment A for copy of [NHB22-2179]

(2) – (4) *The applicant's full name, mailing address, telephone number and email:*

Eversource Energy
c/o Kurt Nelson
13 Legends Drive, Hooksett, NH 03106
603-634-3396
Kurt.nelson@eversource.com

(5) – (6) *Person who will respond to requests for information on behalf of the applicant;*

Kurt Nelson
13 Legends Drive, Hooksett, NH 03106
603-634-3396
Kurt.nelson@eversource.com

(7) *Description of the proposed action:*

Eversource has identified the need to replace this line due to the age and condition of the twenty nine (29) existing wooden electric transmission line structures resulting from woodpecker damage, insect damage, and pole rot. The existing wooden electric transmission structures will be replaced with new



weathered steel structures, ceramic conductors will be replaced with glass conductors, and optical ground wire (OPGW) will be installed in accordance with current construction methods and materials. Additionally, nine (9) steel structures exist on the line that will be accessed for OPGW installation and reconductoring but will not be replaced. Installation of the new 1272 ACSS conductor on all structures will bring the line up to current design standards

Two (2) structure replacements will occur in Holderness and twenty seven (27) structure replacements will occur in Campton. No vernal pools were found to occur within the ROW. Work areas at each structure will be approximately 100x100 feet centered on the structure to be replaced. All areas in wetlands will be temporarily timber matted and restored following construction activities; timber matting will be removed as soon as possible. Utility Maintenance BMPs will be followed. Oversight monitoring will be at least weekly.

Construction is scheduled to begin in February of 2023 and will extend for an estimated 6 months. Mapping depicting the project location is attached along with relevant .shp and .kmz files showing the work areas.

The NHB DataCheck (NHB22-2179) has identified the project is located within potential or known habitat for the following species:

- Sensitive Species
- Sensitive Species
- Wood Turtle (*Glyptemys insculpta*)

Eversource proposes the following conservation measures to avoid, minimize and/or mitigate potential harm to threatened and endangered species and habitat determined to be critical:

- All contractors will be trained by the project qualified herpetologist in the identification and response protocols for observation of Wood turtles.
- If work is to occur during the turtle nesting season, extending from approximately May 15th - July 15th, a biologist with turtle experience will be on site daily to check for protected turtles along the ROW in work areas before crews start work for the day.
- Before the start of construction and movement of equipment, searches and sweeps shall be conducted prior to mowing, matting, and/or gravel placement in order to minimize the chance of animals entering an area between the sweep and work.
- 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 and 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.
- In accordance with Eversource's BMP manual for E&S controls, only biodegradable E&S controls (with the exception of silt fence which will be removed post-construction) will be utilized. No nylon, welded plastic or photodegradable E&S controls shall be permitted for use on the project.
- Sedimentation and erosion controls will be installed, monitored and maintained to protect adjacent upland and wetland areas from sedimentation and degradation; disturbed areas will be temporarily and permanently stabilized and seeded with a native seed mix.

- Bridge matting shall be installed with gaps which facilitate travel by turtles, snakes and other wildlife. Gaps should be created roughly every 30’.
- Signage to identify specific locations where there may be a higher likelihood for species to be present, such as wetland crossing areas will be utilized.

(8) Description of the project parcel by reference to street address and town, and, if available, a geographical information system defined project boundary.

The project includes managed right-of-way within the Z180 Transmission Line corridor in the Towns of Campton and Holderness. Project plans depicting the parcel boundaries and work areas are provided in Attachment C.

(9) A listing of any state or federal permits which have been applied for, have been granted, or which will be necessary for the proposed action to proceed.

The project is subject to the following permits:

- Statutory Permit by Notification (YET TO BE FILED)
- Alteration of Terrain Permit (YET TO BE FILED)

(10) The current condition of the action area prior to any proposed modifications, including a description of known or discernible actions within the preceding 24 months that have altered the site, including but not limited to, timber harvests, significant impact from storms, removal of gravel or stone, or addition or removal of structures;

Previous work on the Z180 Transmission Line resulted in nine (9) existing wooden structures along the having been replaced with new weathered steel structures. Areas of gravel access and work pads at some of these structure locations were still visible during site walks as vegetation continues to regrow.

(11) Any habitat features supporting or that could support threatened and endangered species that have been identified;

Wood Turtle (*Glyptemys insculpta*):

Wood turtles are primarily found near forested streams or rivers, an area in which they hibernate during the winter. During the spring and summer, they will leave the water and move to open grasslands and gravel shores for nesting and foraging. Within the project area, the Z180 Transmission Line traverses four intermittent streams, Durgin Brook, Palmer Brook, the Beebe River and various freshwater forested/shrub wetlands and emergent wetlands that can provide potential suitable habitat for turtle nesting. Additionally, the silver maple (*Acer saccharinum*) floodplain along the Pemigewasset River, located east of the project area, provides suitable overwinter habitat. However, there are also a number of steep slope areas throughout the project area where turtles are unlikely to traverse.

(12) A description of any conservation measures proposed by the applicant to avoid, minimize, or mitigate potential harm to threatened and endangered species and habitat determined to be critical, including but not limited to:

- All contractors will be trained by the project qualified herpetologist in the identification and response protocols for observation of Wood turtles.
- If work is to occur during the turtle nesting season, extending from approximately May 15th - July 15th, a biologist with turtle experience will be on site daily to check for protected turtles along the ROW in work areas before crews start work for the day.

- Before the start of construction and movement of equipment, searches and sweeps shall be conducted prior to mowing, matting, and/or gravel placement in order to minimize the chance of animals entering an area between the sweep and work.
- 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 and 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.
- In accordance with Eversource's BMP manual for E&S controls, only biodegradable E&S controls (with the exception of silt fence which will be removed post-construction) will be utilized. No nylon, welded plastic or photodegradable E&S controls shall be permitted for use on the project.
- Sedimentation and erosion controls will be installed, monitored and maintained to protect adjacent upland and wetland areas from sedimentation and degradation; disturbed areas will be temporarily and permanently stabilized and seeded with a native seed mix.
- Bridge matting shall be installed with gaps which facilitate travel by turtles, snakes and other wildlife. Gaps should be created roughly every 30'.
- Signage to identify specific locations where there may be a higher likelihood for species to be present, such as wetland crossing areas will be utilized.

Signatures and Certifications

- (1) The information contained in or otherwise submitted with the document is true, complete, and not misleading to the best of the signer's knowledge and belief; and
- (2) The signer understands that the submission of false, incomplete, or misleading information shall constitute grounds, pursuant to Fis 1004.13, for the department to:
 - a. Suspend consultation pending submission of true, complete, and not misleading information;
 - b. Terminate consultation
 - c. Withdraw any recommendations made to the referring state agency under this part; or
 - d. Report the suspension, termination, or withdrawal of recommendations, and the full circumstances of the submission, to the referring state agency for action in the pending or completed request for a permit or other action.



Applicant: _____
Kurt Nelson, Eversource

Date: August 15, 2022

Attachments:

- Attachment A: NHB DataCheck No. [NHB22-2179]
- Attachment B: USGS Location Map
- Attachment C: Project Plan

Attachment A: NHB DataCheck

Memo

NH Natural Heritage Bureau
NHB DataCheck Results Letter

Please note: portions of this document are confidential.

Maps and NHB record pages are confidential and should be redacted from public documents.

To: Andrew Mahoney, VHB
2 Bedford Farms Drive Suite 200
Bedford, NH 03103

From: NHB Review, NH Natural Heritage Bureau

Date: 7/7/2022 (valid until 07/07/2023)

Re: Review by NH Natural Heritage Bureau

Permits: NHDES - Utility Statutory Permit by Notification (SPN)

NHB ID: NHB22-2179

Town: Campton

Location: Z180 Transmission Line ROW

Description: PSNH d/b/a Eversource Energy intends to conduct a full-line rebuild of the Z180 Transmission Line. Proposed work will include the replacement of 39 wooden utility pole structures with new weathered steel structures in accordance with current construction and industry standards.

cc: NHFG Review

As requested, I have searched our database for records of rare species and exemplary natural communities, with the following results.

Comments NHB: No comments at this time.

F&G: Please provide project timing to inform the review decision making process.

Vertebrate species	State ¹	Federal	Notes
Sensitive species	E	T	Contact the NH Fish & Game Dept (see below).
Sensitive species	E	T	Contact the NH Fish & Game Dept (see below).
Wood Turtle (<i>Glyptemys insculpta</i>)	SC	--	Contact the NH Fish & Game Dept (see below).

¹Codes: "E" = Endangered, "T" = Threatened, "SC" = Special Concern, "--" = an exemplary natural community, or a rare species tracked by NH Natural Heritage that has not yet been added to the official state list. An asterisk (*) indicates that the most recent report for that occurrence was more than 20 years ago.

For all animal reviews, refer to 'IMPORTANT: NHFG Consultation' section below.

Disclaimer: A negative result (no record in our database) does not mean that a sensitive species is not present. Our data can only tell you of known occurrences,

Memo

NH Natural Heritage Bureau
NHB DataCheck Results Letter

Please note: portions of this document are confidential.

Maps and NHB record pages are confidential and should be redacted from public documents.

based on information gathered by qualified biologists and reported to our office. However, many areas have never been surveyed, or have only been surveyed for certain species. An on-site survey would provide better information on what species and communities are indeed present.

IMPORTANT: NHFG Consultation

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

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

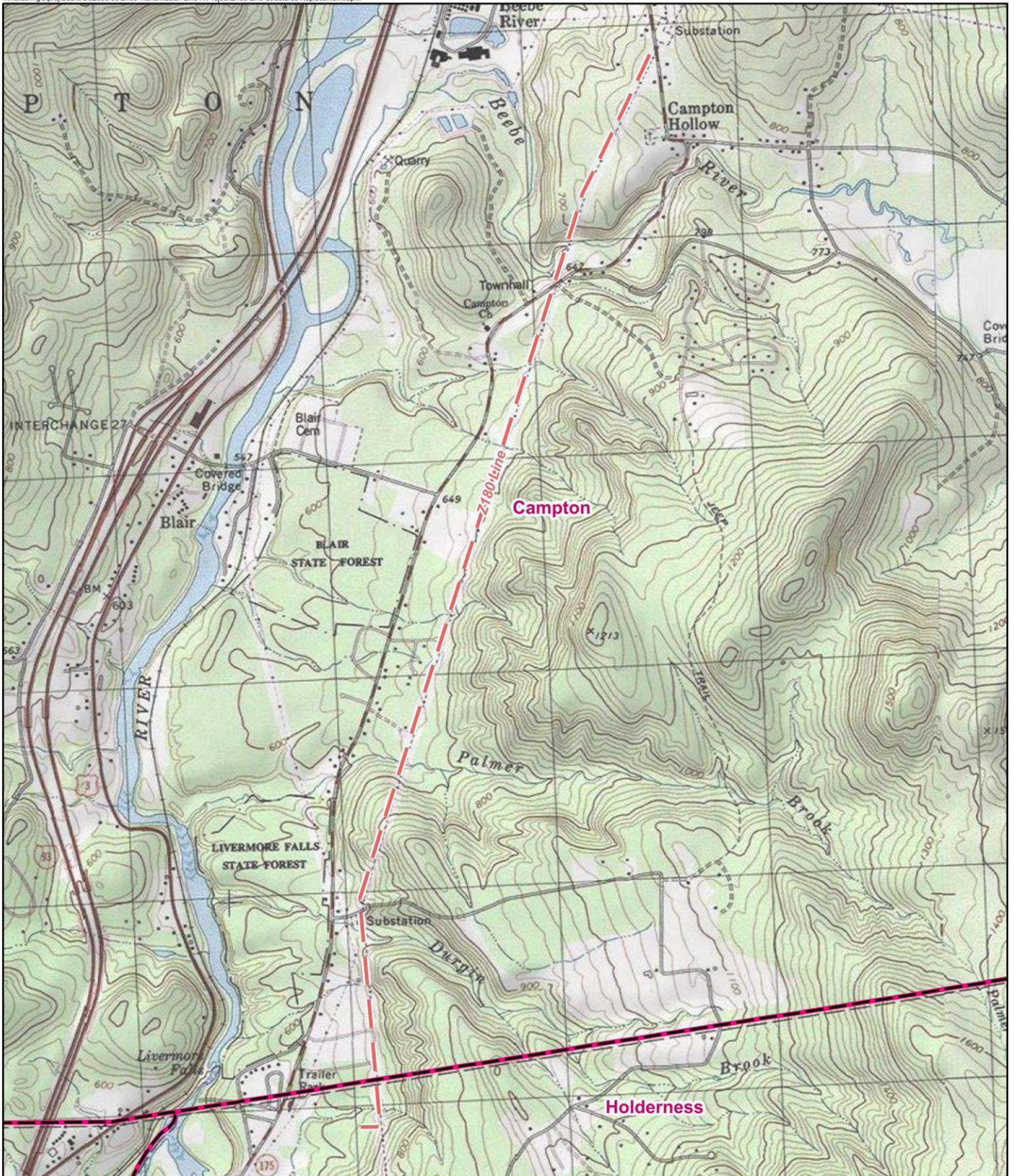
If the NHB DataCheck response letter does not include a threatened or endangered wildlife species but includes other wildlife species (e.g., Species of Special Concern), consultation under Fis 1004 is not required; however, some species are protected under other state laws or rules, so coordination with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

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

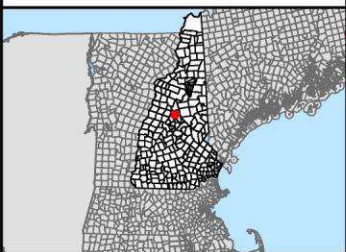
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Attachment B: USGS Location Map



INDEX MAP



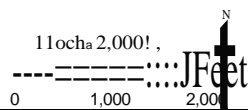
— OVERHEAD EVERSOURCE LINE

— MUNICIPAL BOUNDARY

EVERSOURCE
ENERGY

Z180 Line Structure Replacement Project
USGS Locus Map
Holderness and Campton, New Hampshire

Date: August 02, 2022



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Attachment C: Project Plans

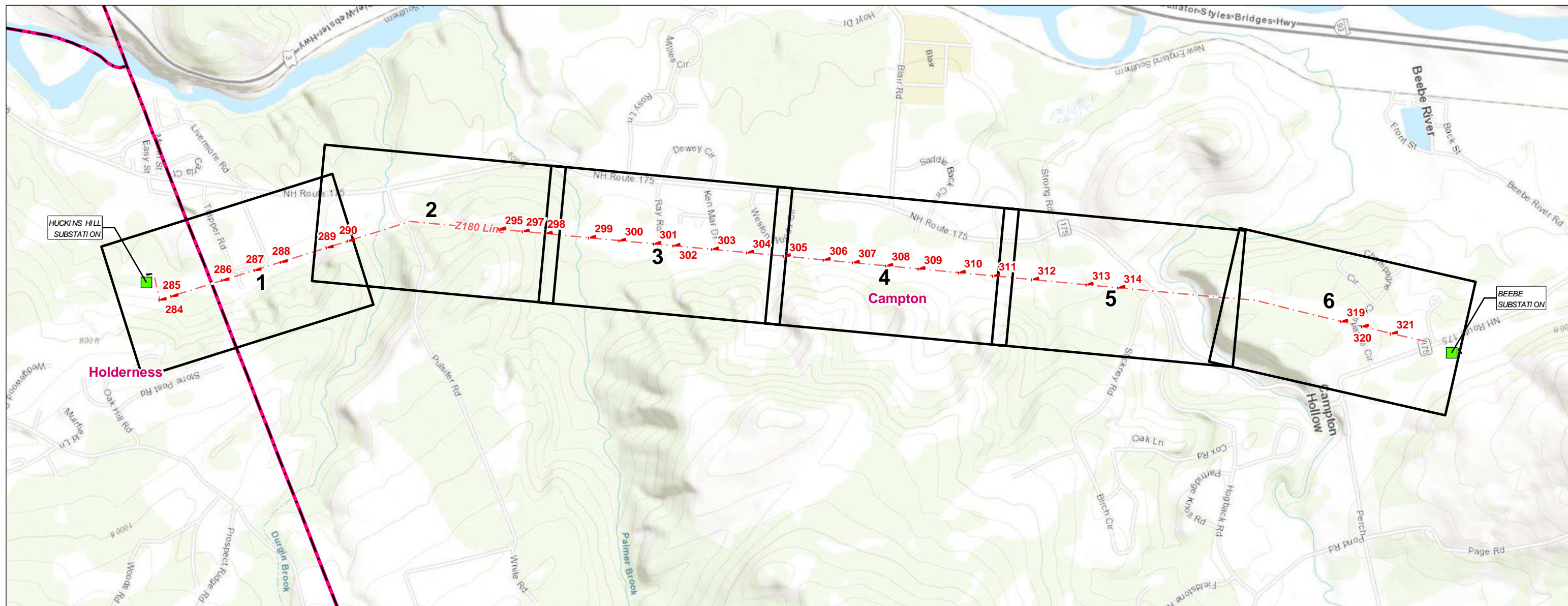
Z180 Line Structure Replacement Project

Holderness and Campton, New Hampshire

Environmental Resources Map

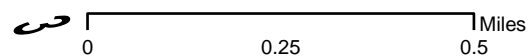
Draft Map Set

Date: July 22, 2022



Legend

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



INDEX OF FIGURES

Title Sheet / Index Map
Map Sheets 1-6

NO.	DATE	REVISIONS

PREPARED FOR:

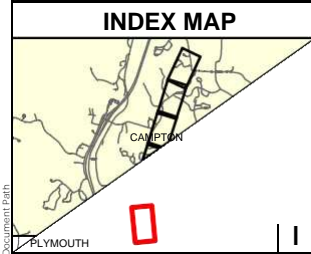
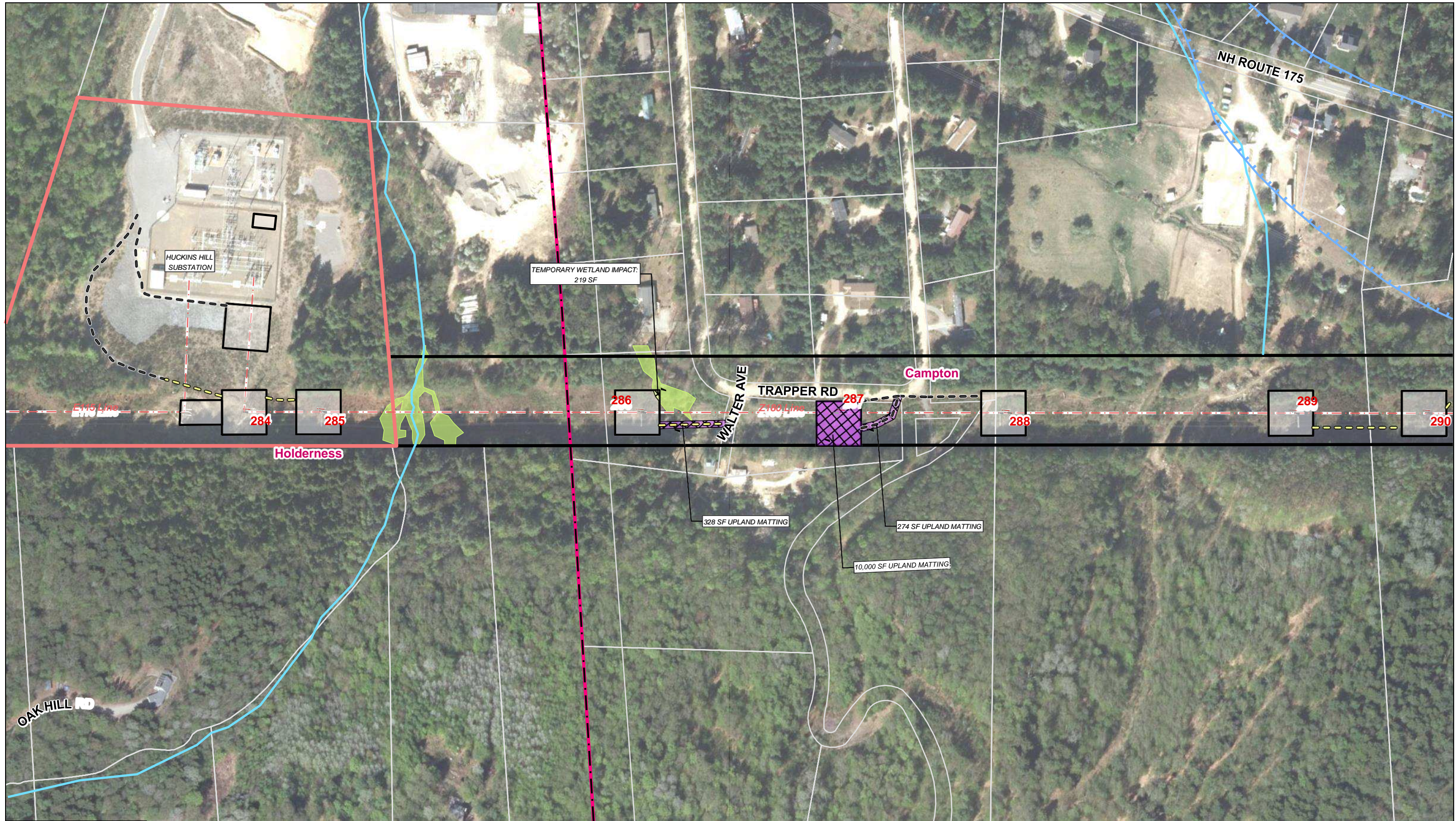


13 Legends Drive
Hooksett, NH 03106

PREPARED BY:



2 Bedford Farms Drive Suite 200
Bedford, NH 03110



	Existing Structure		Proposed Access		Temporary Construction Matting		Eversource Owned Parcel
	Existing Structure to be Removed		Access Road to be Improved		Upland Construction Matting		Parcel Boundary
	Proposed Structure		Delineated Intermittent Watercourse		WorkPad		Municipal Boundary
	Overhead Eversource Line		Delineated Perennial Watercourse		FEMA 100-Year Flood Zone		
	Existing Right-of-Way (ROW)		Watercourse (not delineated)		NH Priority Resource Area Flood Plain Wetlands Adjacent to Tier 3 Streams		
	Existing Access		Field Delineated Wetland				
	Off-ROW Access Pending Rights						

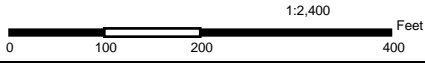
EVERSOURCE ENERGY

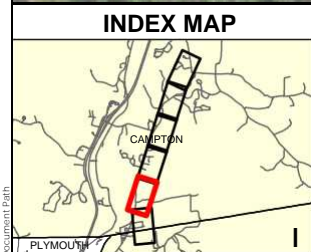
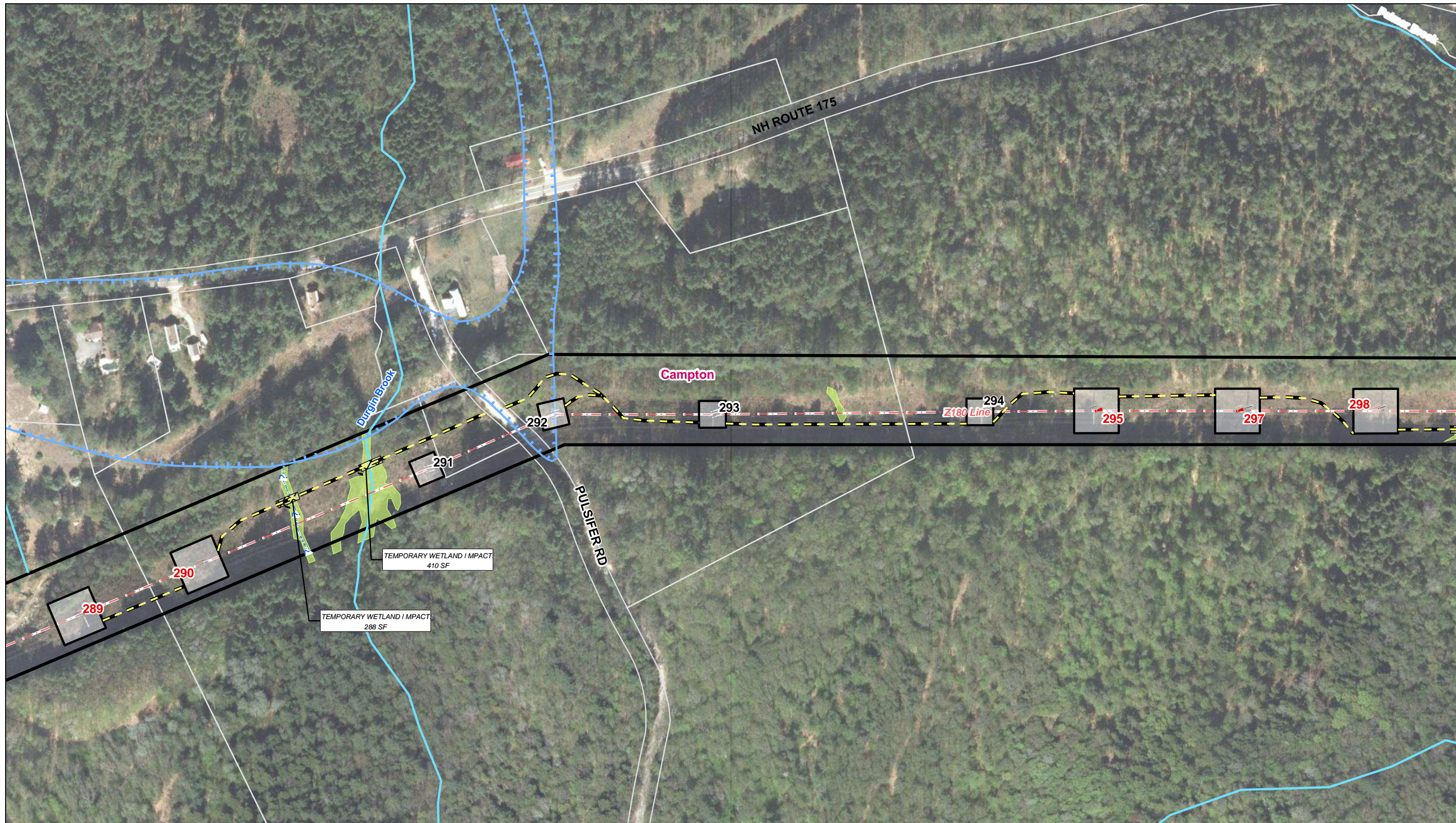
Z180 Line Structure Replacement Projects

Holderness and Campton, NH MAP SHEET 1 of 6

Date: July, 2022

NO.	DATE	REVISIONS



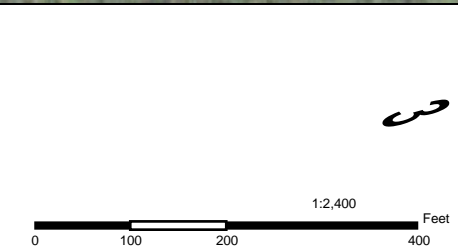


- ! Existing Structure
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- Proposed Structure
- - - Overhead Eversource Line
- Existing Right-of-Way (ROW)
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- Off-ROW Access Pending Rights

- Proposed Access
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- Watercourse (not delineated)
- Field Delineated Wetland

- Temporary Construction Matting
- Upland Construction Matting
- WorkPad
- FEMA 100-Year Flood Zone
- NH Priority Resource Area Flood Plain Wetlands Adjacent to Tier 3 Streams

- Eversource Owned Parcel
- Parcel Boundary
- Municipal Boundary



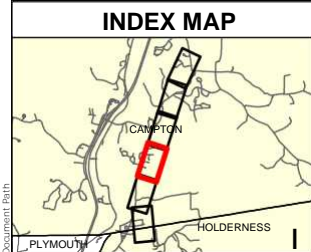
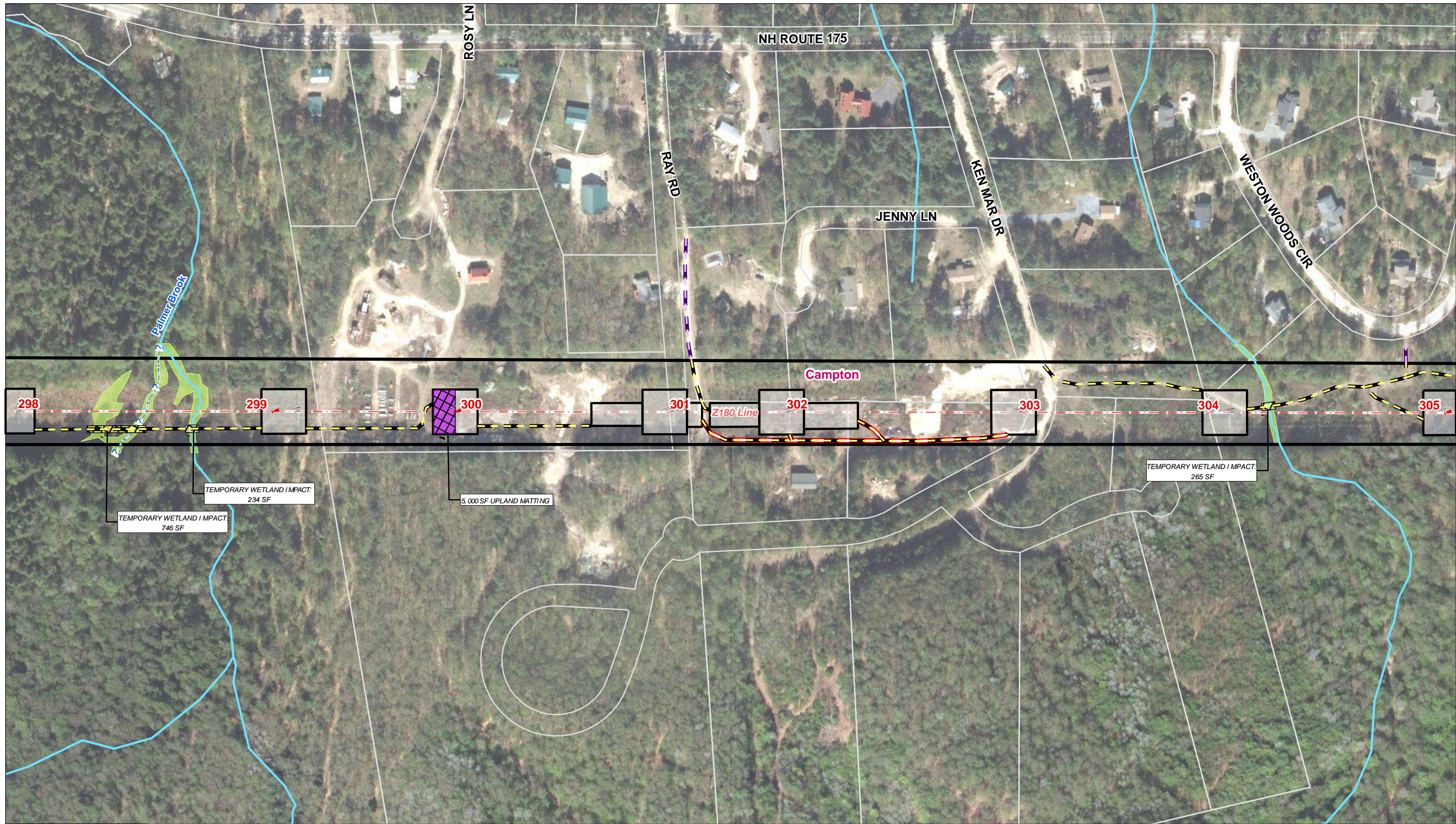
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EVERSOURCE ENERGY

Z180 Line Structure Replacement Projects

Campton, NH MAP SHEET 2 of 6

Date: July, 2022

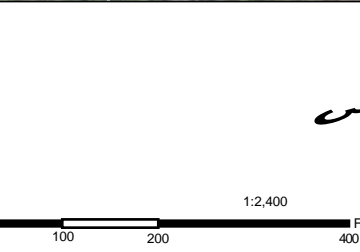


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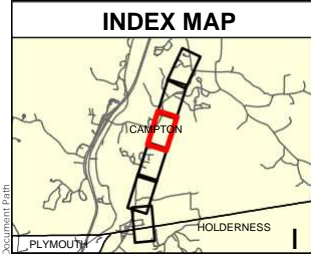
NO.	DATE	REVISIONS

EVERSOURCE ENERGY

Z180 Line Structure Replacement Projects

Campton, NH MAP SHEET 3 of 6

Date: July, 2022



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NO.	DATE	REVISIONS

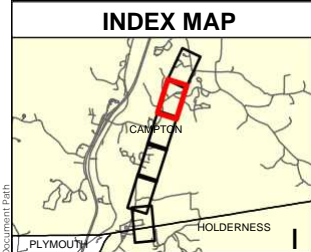
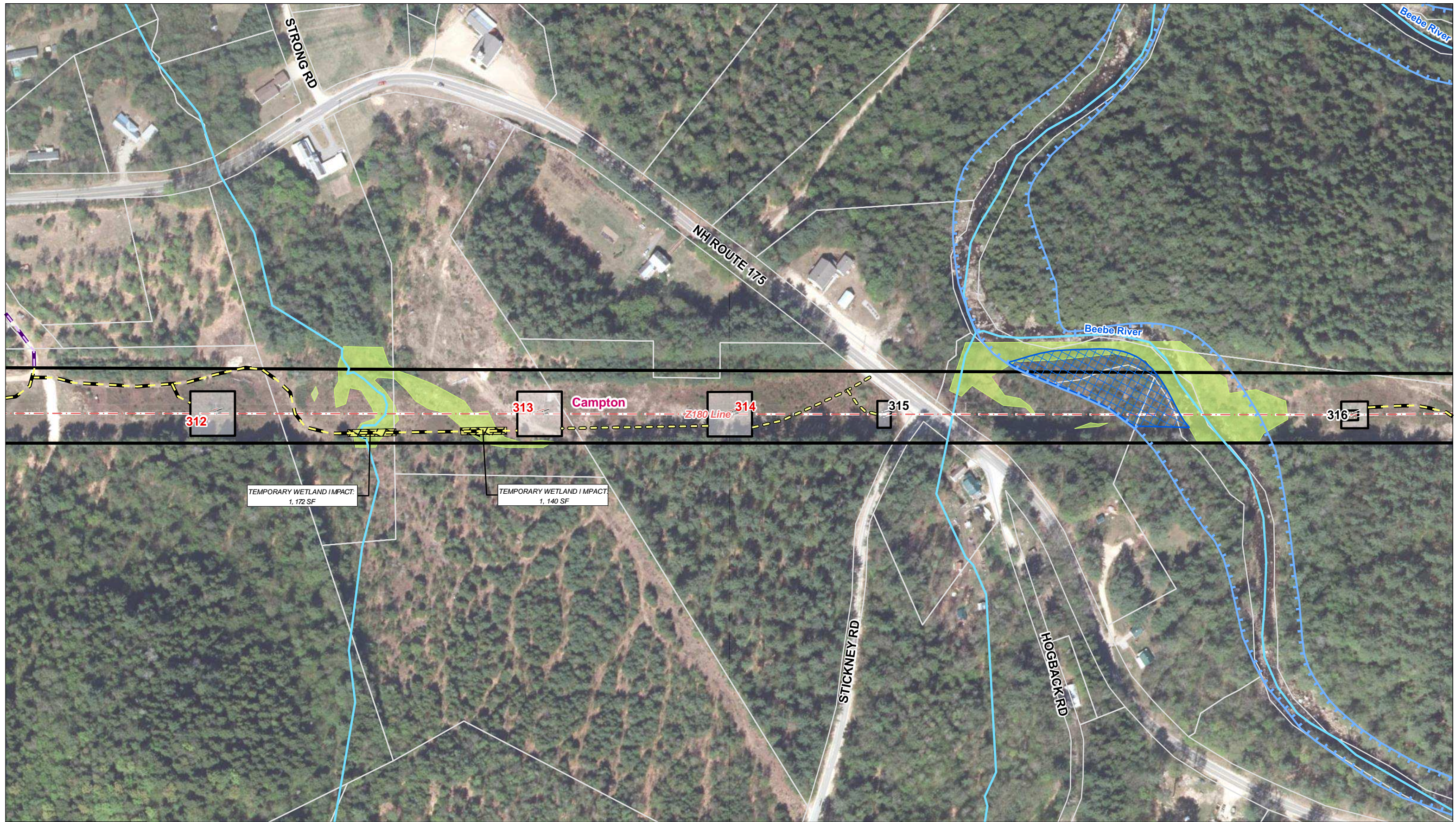
EVERSOURCE ENERGY

Z180 Line Structure Replacement Projects

Campton, NH

Date: July, 2022

MAP SHEET 4 of 6

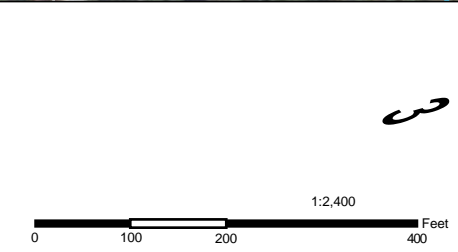


- ! Existing Structure
- ! Existing Structure to be Removed
- Proposed Structure
- - - Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights

- Proposed Access
- Access Road to be Improved
- ?- - - Delineated Intermittent Watercourse
- ?- - - Delineated Perennial Watercourse
- Watercourse (not delineated)
- Field Delineated Wetland

- Temporary Construction Matting
- Upland Construction Matting
- WorkPad
- FEMA 100-Year Flood Zone
- NH Priority Resource Area Flood Plain Wetlands Adjacent to Tier 3 Streams

- Eversource Owned Parcel
- Parcel Boundary
- Municipal Boundary



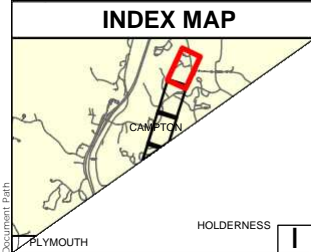
NO.	DATE	REVISIONS

EVERSOURCE ENERGY

Z180 Line Structure Replacement Projects

Campton, NH MAP SHEET 5 of 6

Date: July, 2022

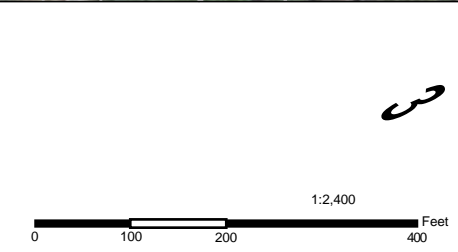


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NO.	DATE	REVISIONS

EVERSOURCE ENERGY

Z180 Line Structure Replacement Projects

Campton, NH

Date: July, 2022

MAP SHEET 6 of 6

DOCUMENT PATH:
PLYMOUTH

HOLDERNESS

From: Wadiak, Kathleen
Sent: Fri, 6 Jan 2023 20:10:38 +0000
To: Mauck, Ridgely
Cc: Winters, Melissa
Subject: RE: NHB22-2179 Z180 NHFG Recommendations

To follow up, that document also included proposals by Eversource to have a biologist with turtle experience on site daily to check for protected turtles along the ROW in work areas before crews start work for the day, to monitor and maintain sedimentation and erosion controls, to install bridge matting to facilitate turtle movement, and to install signage identifying specific areas where there may be a higher likelihood for species to be present. As these were proposed by Eversource in this document, NHFG expects them to be adhered to unless notified otherwise.

Moving forward, I have been leaving out the point about adhering to the "BMP documents" on projects like this, and just listing all points of recommendations, including those proposed by Eversource. Eversource has also started updating their proposals to include our previous edits, making it so they more closely follow NHFG's recommendations and language when submitted.

Again, there have been some changes as our process develops, so let me know if you have any questions.

Thanks,
Kat

From: Wadiak, Kathleen
Sent: Friday, January 6, 2023 2:54 PM
To: Mauck, Ridgely <Addison.R.Mauck@des.nh.gov>
Cc: Winters, Melissa <Melissa.J.Winters@wildlife.nh.gov>
Subject: NHB22-2179 Z180 NHFG Recommendations

Hey Ridge,

That document I reference, "Z180 NHFG Correspondence Memo updated 10-18-22," is the document that includes Eversource's proposed conservation measures. They begin on the second page under "Eversource proposed the following conservation measures..." I had correspondence with Eversource to correct the initial ones that they submitted, which were not in line with what NHFG was recommending. Sometimes, Eversource creates a BMP document for T&E species that include their proposed conservation measures, so I wanted make sure that what they were proposing matched the basics of our recommendations (for example, corrected date ranges and corrected instructions on how to handle encountering a T&E species). That being said, the bullets listed under that point address what NHFG recommends as permit conditions and includes further details and some additional recommendations. I've attached my email thread with Kurt and Sherrie for context, but feel free to give me a call with any other questions. We've had a changing process lately as we're working with Eversource and going back and forth with ideas on streamlining consultation.

Thanks,

Kat

Redaction Log

Total Number of Redactions in Document: 3

Redaction Reasons by Page

Page	Reason	Description	Occurrences
28	CONFIDENTIAL DNCR	NH RSA 91-A:5, IV Confidential information. NH Department of Natural and Cultural Resources (DNCR) has asserted a claim of confidentiality. See also NH RSA 212-A, RSA 212-B, RSA 217-A, and/or RSA 227-C:11.	1
29	CONFIDENTIAL DNCR	NH RSA 91-A:5, IV Confidential information. NH Department of Natural and Cultural Resources (DNCR) has asserted a claim of confidentiality. See also NH RSA 212-A, RSA 212-B, RSA 217-A, and/or RSA 227-C:11.	1
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Redaction Log

Redaction Reasons by Exemption

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CONFIDENTIAL DNCR	NH RSA 91-A:5, IV Confidential information. NH Department of Natural and Cultural Resources (DNCR) has asserted a claim of confidentiality. See also NH RSA 212-A, RSA 212-B, RSA 217-A, and/or RSA 227-C:11.	28(1) 29(1) 30(1)