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GEOTECHNICAL ENVIRONMENTAL ECOLOGICAL WATER CONSTRUCTION MANAGEMENT

5 Commerce Park North Suite 201 Bedford, NH 03110 T: 603.623.3600 F: 603.624.9463 www.gza.com April 15, 2022 File No. 04.0190999.70

Town of Hudson Planning Board Attn: Timothy Malley, Chairman 12 School Street Hudson, New Hampshire 03036

Re: Conditional Use Permit Application Eversource Energy 326 Transmission Line Structure Replacement Project Hudson, New Hampshire

Dear Chairman Malley:

This letter transmits a Conditional Use Permit Application on behalf of Public Service Company of New Hampshire doing business as Eversource Energy (Eversource), for the 326 Transmission Line Structure Replacement Project (see attached **Figure 1**, **Locus Plan**). On behalf of Eversource, GZA GeoEnvironmental, Inc. (GZA) is requesting consideration of a Conditional Use Permit Application for required temporary impacts within the Town of Hudson Wetlands Conservation District.

The proposed project involves the replacement of eight 326 Transmission Line structures. The utility structures have been subject to environmental damage (weathering, woodpecker holes, etc.), and must be replaced for the lines to continue to function safely and reliably. The proposed 2022 structure replacements were selected based on site visit evaluations of the 326 Transmission Line.

The 326 Transmission Line ROW is approximately 18 miles in length, beginning at the Scobie Pond Substation in Londonderry, NH, and ending at the New Hampshire-Massachusetts border and has a width of approximately 300 feet. See **Figure 3 – Access and Permitting Plans** for a depiction of the proposed project. The Site crosses through residential, and rural properties, as well as three public roads, Marie Lane, Bush Hill Road and River Road. Natural cover within the ROW includes upland shrublands and wetland emergent and scrub-shrub habitats. In the Town of Hudson, the proposed work area is located west of Kienia Road, north of Bush Hill Road and east and west of River Road.

Tighe and Bond delineated wetlands in 2018 and GZA reviewed wetland boundaries in 2022. In addition, GZA will be submitting a separate wetland permit through the New Hampshire Department of Environmental Services for the proposed project in Hudson.

Eight structures are proposed to be replaced in Hudson along the 326 Transmission Line (see **Figure 2, Permitting and Impact Plans**). The utility structures will be approximately 5-10 feet higher than the existing utility structures due to updated National Electrical Safety Code requirements.



In the Town of Hudson, the proposed project requires approximately 36,793 sq. ft. of temporary wetland impact to palustrine emergent and scrub-shrub wetlands that are located within the existing maintained utility ROW for construction access and temporary work pad placement (see **Table 1**). GZA and Eversource worked closely to review the structure location and construction access during the design of the project to minimize impacts in the Wetland Conservation District. Wherever possible, temporary access is proposed using existing access routes to limit temporary disturbance to natural wetlands and wetland buffers.

Wetland ID	Temporary Wetland Impact (SF)	Local Buffer Impact (SF)
HW-51	3,466	1,170
HW-45	5,357	2,833
HW-81	27,970	2,020
Total	36,793	6,023

Table 1 – Summary of wetlands and associated temporary wetland and buffer impacts.

In accordance with *Article IX.334.37 of the Hudson Zoning Ordinance*, the Planning Board shall, in addition to referencing the findings references in the preceding section, considering all relevant facts and information prior to making a decision on any application for a Conditional Use Permit; and find, that to the extent possible, the project voids and minimizes impacts to land situated within the District, including but not limited to the following:

A. The proposed activity minimizes degradation of land situated within the District and offsets potential adverse impacts to functions and values of wetlands, surface waters, and vernal pools including but not limited to their capacity to: Support fish and wildlife, Attenuate flooding, Supply and protect surface and groundwater resources, Remove sediments, Remove pollutants, Support wetland vegetation, Promote public health and safety, and Moderate fluctuations in surface water levels.

The access for the project has been sited to avoid areas within wetlands and wetland buffers to the greatest extent practicable. Proposed impacts have been avoided in Wetlands HW-49, HW-50, HW-47, and HW-46. In addition, the project utilizes existing access routes within the ROW to limit and prevent new disturbance. Where access routes temporarily cross a wetland, the proposed project has been designed to minimize temporary wetland impacts by using wetland matting. Matting will be temporarily placed in narrow sections of wetlands where available and within existing access routes in order to provide appropriate access and prevent rutting.

Temporary wetland impacts will be restored upon completion of work. Eversource has retained GZA to complete regular erosion control inspections during construction and provide guidance to the contractor to maintain compliance with local, state, and federal environmental permits. In addition, GZA will coordinate with the contractor to complete best management practices (BMPs) to protect rare, threatened, and/or endangered species during construction.

After construction activities are complete, upland work areas will be re-contoured to minimize slopes and to re-establish gradients of the adjacent landscape to the greatest extent possible. Wetland areas will be mulched and restored using a native seed mix as necessary. Erosion controls will be removed when adjacent areas are stabilized.



B. The proposed activity will have no significant negative environmental impact to abutting or downstream properties and/or hydrologically connected water and/or wetland resources including; Increased potential for erosion, siltation, and turbidity of surface waters, Loss of fish and wildlife habitats, Loss of unique habitat having demonstrable natural, scientific, or educational value, Loss or decrease of beneficial aquatic organisms and wetland plants and their habitat, Increased danger of flooding and/or transport of pollutants and Destruction of economic, aesthetic, recreational, and other public and private uses and values of the wetland community.

As previously mentioned, impacts were avoided and minimized to the greatest extent practicable by utilizing existing access roads and avoiding unnecessary temporary impacts to wetlands by placing utility poles outside of wetland boundaries and wetland buffers where possible. Timber matting will be used where wetlands must be crossed to limit and prevent rutting and maintain a buffer between tracked vehicles and wetland vegetation. There are no alternative routes that both provide access to poles and minimize impacts to wetlands and wetland buffers.

C. The proposed activity or use cannot practicably be located otherwise on the site to eliminate or reduce impact to the Wetland Conservation Overlay District.

Impacts were avoided and minimized to the greatest extent practicable by utilizing existing access roads and avoiding unnecessary temporary impacts to wetlands by placing utility poles outside of wetland boundaries and wetland buffers where possible. Timber matting will be used where wetlands must be crossed to limit and prevent rutting and maintain a buffer between tracked vehicles and wetland vegetation. There are no alternative routes that both provide access to poles and minimize impacts to wetlands and wetland buffers.

D. The proposed activity incorporates the use of the Best Management Practices recommended by the New Hampshire Department of Environmental Services and/or other state agencies having jurisdictions.

The maintenance project will incorporate the use of the New Hampshire Department of Environmental Services Best Management Practices Manual for Utility Maintenance in and Adjacent to Wetlands and Waterbodies in New Hampshire.

E. All applicable federal and/or state permit(s) have been received for the proposed activity in accordance with New Hampshire Code of Administrative Rules, Part Env-Wt 100-800 and Section 404 of the Federal Clean Water Act, as amended.

All applicable federal and/or state permits will be received prior to construction activity in accordance with NH Code of Administrative Rules. This includes a state Statutory Permit by Notification wetlands permit and a state Alteration of Terrain Permit. The town will be sent the permit approvals.

F. Where applicable, proof of application to all required state and/or federal permits.

As previously mentioned the town will be sent the required state federal permits.



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Please feel free to contact us with any questions.

Very truly yours, GZA GEOENVIRONMENTAL, INC.

Udm

Conor Madison, CPESC, CESSWI Project Manager

Debrah M. Jack Ca

Deborah M. Zarta Gier, CNRP Consultant/Reviewer

CEM/DMZ/TLT

Attachments: Conditional Use Permit Application Form Photo Log List of Abutters Figure 1 – Locus Plan Figure 2 – Permitting and Impact Plans Application Fee

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Tracy Tarr, CWS, CWB, CESSWI Associate Principal



Town of Hudson 12 School Street Hudson, NH 03501

CONDITIONAL USE PERMIT APPLICATION:

WETLAND CONSERVATION OVERLAY DISTRICT

Revised August 30, 2021

Applications must be received <u>at least 21 days prior</u> to the <u>Planning Board and Conservation Commission</u> meetings at which the application will be heard. *The following information must be filed to each board*.

CONSERVATION COMMISSION:

- 1. Ten (10) copies of the completed application, including the project narrative that demonstrates that the proposal meets the conditions of Article IX of the Zoning Ordinance.
- 2. Ten (10) reduced size plan sets (sheet size: 11" X 17"). Plans require the stamp of a licensed land surveyor and a certified wetlands scientist. At a minimum, plans must show topography and any wetland within fifty (50) feet of the proposed project.

*Complete Applications should be delivered to the Engineering Department (603)886-6008.

PLANNING BOARD:

- 1. Fifteen (15) copies of the completed application, including the project narrative that demonstrates that the proposal meets the conditions of Article IX of the Zoning Ordinance.
- 2. Three (3) full size folded plan sets (sheet size: 22" x 34") and fifteen (15) reduced size plan sets (sheet size: 11" X 17"). Plans require the stamp of a licensed land surveyor and a certified wetlands scientist. At a minimum, plans must show topography and any wetland within fifty (50) feet of the proposed project.
- 3. A list of direct abutters and indirect abutters, and two (2) sets of mailing labels for abutter notifications.
- 4. All of the above application materials, including plans, shall also be submitted in electronic form as a PDF.
- 5. Check should be made payable to the Town of Hudson, and submitted to the Planning Department.

*Complete Application & check should be delivered to the Planning Department (603)886-6008.

Revised plans and other application materials must be filed with the Planning Department *no later than* 10:00A.M., Tuesday ONE WEEK prior to the scheduled meeting, as applicable. The purpose of these materials is hardcopy distribution to Planning Board members, not review. Any plan revisions that require staff review must be submitted no later than 10:00A.M., Tuesday TWO WEEKS prior to the scheduled Planning meeting. Depending on the complexity of changes, more time may be required for review. Please contact the Town Planner if you have any questions on this matter.

PLEASE NOTE:

- 1. To prevent submission of redundant information, submission of a complete Subdivision or Site Plan Application may be used to satisfy some of the requirements for the Conditional Use Permit Application, where applicable.
- 2. No postage fees or mailing labels are required when submitting with a subdivision or site plan application.
- 3. Prior to filing an application, it is recommended to schedule an appointment with the Town Planner and Town Engineer.

CONDITIONAL USE PERMIT APPLICATION

Date of Application:4/15/22	Tax Map #: See Attached Lot #:		
Site Address: Eversource Maintained ROW			
Name of Project: <u>326 Transmission Line Structure R</u>	Replacement Project		
Zoning District: <u>G1 & R2</u>	General CUP#:		
	(For Town Use Only)		
Z.B.A. Action:			
PROPERTY OWNER:	DEVELOPER:		
Name: Kurt Nelson			
Address: 13 Legends Drive			
Address: Hooksett, NH 03106			
Telephone #603-634-3256			
Email:kurt.nelson@gza.com			
PROJECT ENGINEER or SURVEYOR:	CERTIFIED WETLANDS SCIENTIST:		
Name:	Tracy Tarr		
Address:	5 Commerce Park North		
Address:	Bedford, NH 03110		
Telephone #	603-232-8739		
Email:	tracy.tarr@gza.com		
PURPOSE OF PLAN: Eversource structure replacement project.			
(For To	wn Use Only)		
Routing Date: Deadline Date:	Meeting Date:		
I have no comments I have	ave comments (attach to form)		
Title: (Initials)	Date:		
Department:			
Zoning: Engineering: Assessor: Pol	ice:Fire: DPW: Consultant:		

SITE DATA SHEET

PLAN NAME:326 Transmission Line	Structure Replacement Project
PLAN TYPE: (Site Plan, Subdivision,	or other) _Permitting Plans
LEGAL DESCRIPTION: MAP _	Please see attached LOT
DATE:	
Location by Street:	Please see attached
Zoning:	G1 & R2
Proposed Land Use:	Maintained Cleared Right-of-Way
Existing Use:	Maintained Cleared Right-of-Way
Total Site Area:	S.F.:14,766,840 Acres:339
Total Wetland Area (SF):	39,553
Permanent Wetland Impact Area (SF):	0
Permanent Wetland Buffer Impact Are	a (SF):
Temporary Wetland Impact Area (SF):	39,553
Temporary Wetland Buffer Impact Are	ea (SF):6,023
Flood Zone Reference:	N/A (Flood Zone X)
Proposed Mitigation:	
	(For Town Use Only)

	(For Town Use Only)
Data Sheets Checked By:	Date:

CONDITIONAL USE PERMIT APPLICATION AUTHORIZATION

I hereby apply for *Conditional Use Permit* and acknowledge I will comply with all of the Ordinances of the Town of Hudson, New Hampshire State Laws, as well as any stipulations of the Planning Board, in development and construction of this project. I understand that if any of the items listed under the *Conditional Use Permit* specifications or application form are incomplete, the application will be considered rejected.

Pursuant to RSA 674:1-IV, the owner(s) by the filing of this application as indicated above, hereby given permission for any member of the Hudson Planning Board, the Hudson Conservation Commission, the Town Planner, the Town Engineer, and such agents or employees of the Town or other persons as the Planning Board may authorize, to enter upon the property which is the subject of this application at all reasonable times for the purpose of such examinations, surveys, tests and inspections as may be appropriate. The owner(s) release(s) any claim to or right he/she (they) may now or hereafter possess against any of the above individuals as a result of any examinations, surveys, tests and/or inspections conducted on his/her (their) property in connection with this applications.

Signature of Owner:	Date: 4/11/22
Print Name of Owner: Kurt Nelson for Eversource Energy	

 If other than an individual, indicate name of organization and its principal owner, partners, or corporate officers.

Signature of Developer:	Date:
6 1 -	

Print Name of Developer:

The developer/individual in charge must have control over all project work and be available to the Code Enforcement Officer/Building Inspector during the construction phase of the project. The individual in charge of the project must notify the Code Enforcement Officer/Building Inspector within two (2) working days of any change.

*Eversource Corporate Officers: CEO Joseph Nolan CFO Phillip Lembo Exec VPs James Hunt, Penelope Connor, Christine Carmody, Gregory Butler, Werner Schweiger

SCHEDULE OF FEES

(Fee covers both Conservation Commission & Planning Board)

A. <u>REVIEW FEES:</u>

1. Conditional Use Permit \$100 Flat Fee

LEGAL FEE:

The applicant shall be charged attorney costs billed to the Town for the Town's attorney review of any application plan set documents.

<u>\$_100.00</u>

B. <u>POSTAGE:</u>

42 Direct Abutters @\$4.33 (or Current Certified Mail Rate)	\$ 181.86
<u>18</u> Indirect Abutters (property owners within 200 feet)	\$ 10.44
@\$0.58 (or Current First Class Rate)	
TOTAL	\$ 292.30

(For Town Use)			
AMOUNT RECEIVED: \$	DATE RECEIVED:		
RECEIPT NO.:	RECEIVED BY:		

PHOTO LOG 326 Transmission Line OPGW Replacement Project Hudson, New Hampshire Photos Taken: March 3 & 8, 2022



Photograph No. 1: Looking northwesterly at proposed access across Wetland HW-5.1 towards Structure 80 of the 326 Line to be replaced. Timber matting will be used in the wetland portion of the access route.



Photograph No. 2: Looking northeasterly at proposed access route to Structure 123 of the 326 Line to be replaced, associated with Wetland HW-45. Timber matting will be used in the wetland portion of the access route.

PHOTO LOG 326 Transmission Line OPGW Replacement Project Hudson, New Hampshire Photos Taken: March 3 & 8, 2022



Photograph No. 3: Looking northeasterly at proposed access towards Structure 153 of the 326 Line to be replaced, across Wetland H-81. Timber matting will be used in the wetland portion of the access route.



Photograph No. 4: Looking northeasterly at proposed access and work pad location for Structure 153 of the 326 Line to be replaced, associated with Wetland HW-81. Timber matting will be used in the wetland portion of the access route and work pad.

PHOTO LOG 326 Transmission Line OPGW Replacement Project Hudson, New Hampshire Photos Taken: March 3 & 8, 2022



Photograph No. 5: Looking northwesterly at proposed access route associated with Wetland HW-81 and Structure 152 of the 326 Line to be replaced. Timber matting will be used in the wetland portion of the access route.



Photograph No. 6: Looking northeasterly at proposed access route and work pad associated with Wetland HW-81 towards Structure 152 of the 326 Line to be replaced. Timber matting will be used in the wetland portion of the access route and work pad.



326 Transmission Line Structure Replacement Project Eversource Energy Direct Abutters List Hudson, New Hampshire

Wetland Scientist GZA GeoEnvironmental, Inc. Attn: Tracy Tarr, CWS, CESSWI 5 Commerce Park North, Suite 201 Bedford, NH 03110

Tax Map 208-011-000, 107-030-000 Public Service of NH PO Box 270 Hartford, CT 06141

Tax Map 208-009-000 Tessier, Carlene Ann Trustee 168 Bush Hill Road Hudson, NH 03051

Tax Map 112-006-000 Devlin, Daniel J. Trust 1 Marie Lane Hudson, NH 03051

Tax Map 240-014-000 Steele Farm LLC 2 Friel Golf Road Hudson, NH 03051

Tax Map 241-038-000 Fontaine, Dennis 34 Dracut Road Hudson, NH 03051

Tax Map 208-015-000 Sir Isaac Way Realty Trust 166 Middle Road Byfield, MA 01922

Tax Map 240-023-000 Leboeuf, Gerald L. Tr 30 River Road Hudson, NH 03051

Tax Map 112-026-000 Baker, Barabara 69 Kienia Road Hudson, NH 03051

Tax Map 112-005-001 Vigeant, Leonard A. Tr 31 Autumn Circle Hudson, NH 03051 **Owner** Eversource Energy (a.k.a. PSNH) PO Box 270 Hartford, CT 06141

Tax Map 195-007-000 Boucher, Kenneth A. 45 Gibson Road Hudson, NH 03051

Tax Map 208-018-000 Steck, Paul 146 Jeremy Hill Road Pelham, NH 03076

Tax Map 112-024-000 Fallon, Gary 8 Rosemary Drive Hudson, NH 03051

Tax Map 112-025-001 Geisler, Ruth 1066 Collins Boulevard Ogden, UT 84404

Tax Map 112-023-001 Burris, Thomas 63A Kienia Road Hudson, NH 03051

Tax Map 107-018-000 O'Halloran, David 30 Breakneck Road Hudson, NH 03051

Tax Map 112-004-000 Cates, Christina M. 66A Kienia Road Hudson, NH 03051

Tax Map 240-011-000 Schilling, Paul 35 River Road Hudson, NH 03051

Tax Map 241-021-000 Severance, Ethan 12 Jacqueline Street Hudson, NH 03051 Tax Map 208-010-000 Michaud, Raymond J. 170 Bush Hill Road Hudson, NH 03051

Tax Map 112-025-002 Ormond, Paul 67B Kienia Road Hudson, NH 03051

Tax Map 201-012-000 Mills, James 118 Bush Hill Road Hudson, NH 03051

Tax Map 241-033-000 Lacoshus, Frank 31 Dracut Road Hudson, NH 03051

Tax Map 112-027-000 Beaulieu, Thomas 71A Kienia Road Hudson, NH 03051

Tax Map 246-067-000 Oak Hill Associates, LLC 20 Trafalgar Street #602 Nashua, NH 03063

Tax Map 241-022-000 Beliveau, Erica 11 Jacqueline Street Hudson, NH 03051

Tax Map 240-022-000 Haigler, Richard 30 River Road Hudson, NH 03051

Tax Map 112-021-001 Albert, Paul D. 59A Kienia Road Hudson, NH 03051

Tax Map 241-028-000 Durand, Robert K Trust 7 Blueberry Lane Hudson, NH 03051

GZA GeoEnvironmental, Inc.



Tax Map 240-021-000 Quintal, J Miguel 28 River Road Hudson, NH 03051

Tax Map 241-027-000 Loughran, Shawn 9 Blueberry Lane Hudson, NH 03051

Tax Map 240-013-000

Braccio, Vincent 27 River Road Hudson, NH 03051

Tax Map 112-003-000

Ben-Lu, LLC 5 Bailey Road Salem, NH 03079 326 Transmission Line Structure Replacement Project Eversource Energy Direct Abutters List Hudson, New Hampshire

> Tax Map 112-019-000 Murray, Shawn P. 55 Kienia Road Hudson, NH 03051

Tax Map 246-065-000 Leblanc, Paul R. 41 River Road Hudson, NH 03051

Tax Map 107-019-000 Dupras, Ernest R III 31 Breakneck Road Hudson, NH 03051

Tax Map 241-037-000 Monahan-Fortin Prop. II, LLC 20 Trafalgar Sq, STE 610 Nashua, NH 03063 Tax Map 112-022-000 Vaccaro, Jeffery R. 61 Kienia Road Hudson, NH 03051

Tax Map 240-012-000 Fournier, Donna 29 River Road Hudson, NH 03051

Tax Map 246-066-001 Byron, James A 39 River Road Hudson, NH 03051

Tax Map 240-010-000 Duncanson, Mark A. 37 River Road Hudson, NH 03051



Wetland Scientist GZA GeoEnvironmental, Inc. Attn: Tracy Tarr, CWS, CESSWI 5 Commerce Park North, Suite 201 Bedford, NH 03110

Tax Map 112-020-000 Lloyd, Derek S. 57 Kienia Road Hudson, NH 03051

Tax Map 112-007-000 Forsberg, Lisa 3 Marie Lane Hudson, NH 03051

Tax Map 241-023-00 Martin, Joseph 9 Jacqueline Street Hudson, NH 03051

Tax Map 246-064-001 Vieira, JR, Bruce J. 43 River Road Hudson, NH 03051

Tax Map 241-029-00 Fontaine, Daniel 5 Blueberry Lane Hudson, NH 03051

Tax Map 107-018-000 O'Halloran, David 30 Breakneck Road Hudson, NH 03051 326 Transmission Line Structure Replacement Project Eversource Energy Indirect - Abutters List Hudson, New Hampshire

> Owner Eversource Energy (a.k.a. PSNH) PO Box 270 Hartford, CT 06141

Tax Map 107-020-000 Labrecque, Kyle S. 29 Breakneck Road Hudson, NH 03051

Tax Map 241-035-001 Golen, Chad 17 Dracut Road Hudson, NH 03051

Tax Map 246-068-000 J.K.S Realty LLC 20 Trafalgar Sq. STE #602 Nashua, NH 03063

Tax Map 241-020-000 Molley, Stephen 10 Jacqueline Street Hudson, NH 03051

Tax Map 241-035-000 117 Dracut Road LLC 17 Dracut Road Hudson, NH 03051

Tax Map 107-018-000 O'Halloran, David 30 Breakneck Road Hudson, NH 03051 Tax Map 240-013-001 Dwarkamai, Inc 2340 Lexington Lane Naperville, IL 60540

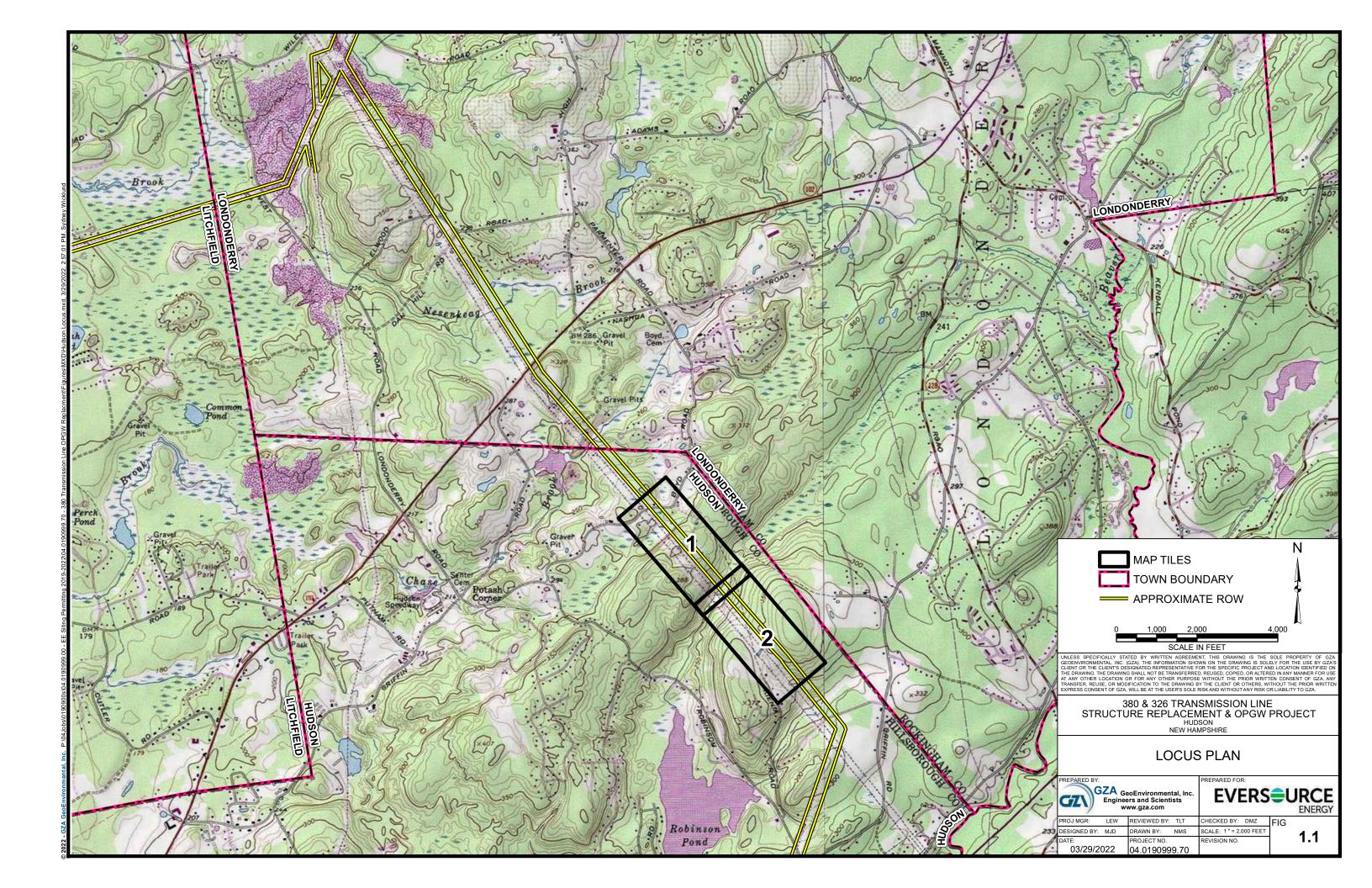
Tax Map 202-001-000 Steck, Paul 146 Jeremy Hill Road Pelham, NH 03076

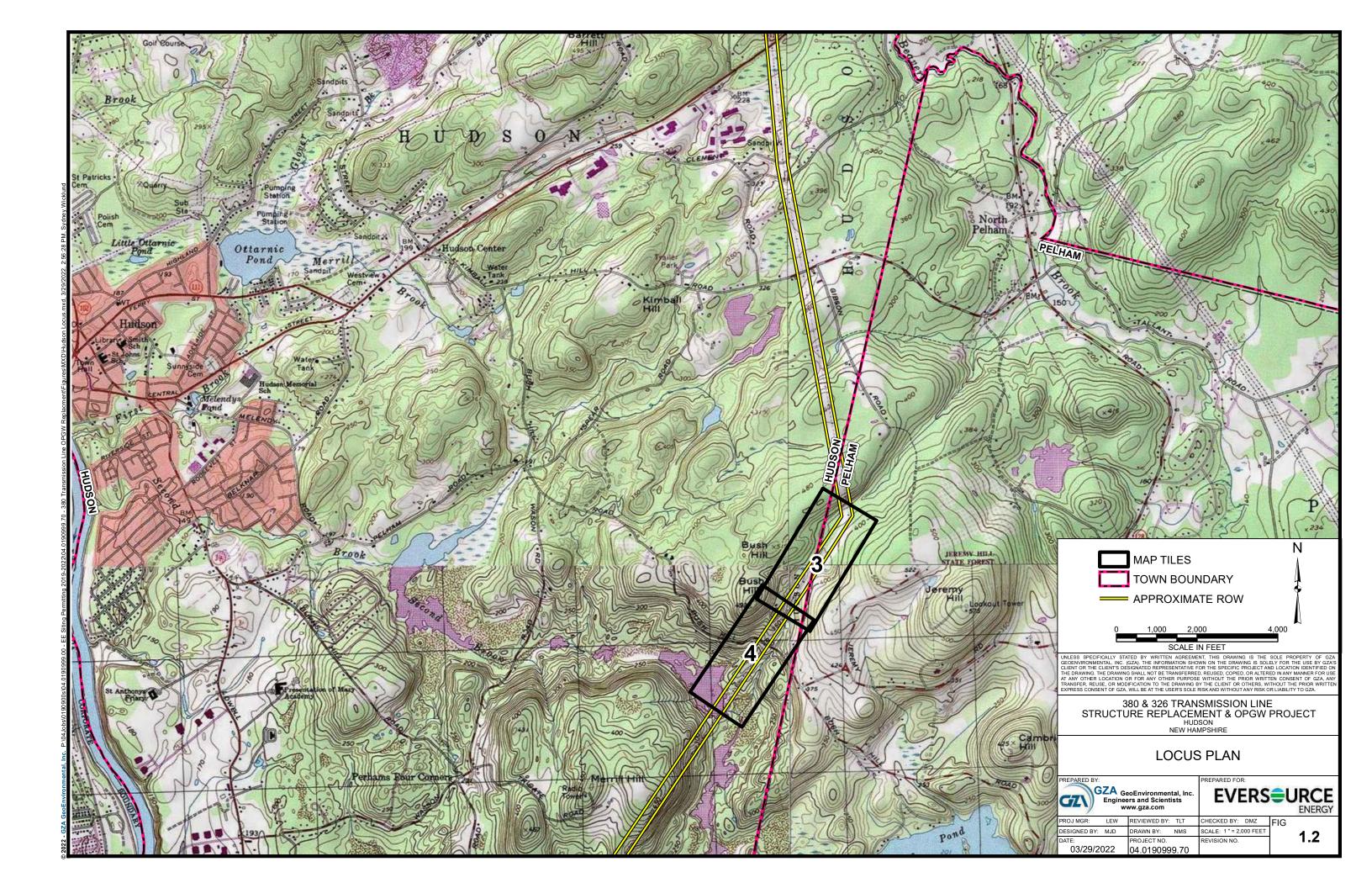
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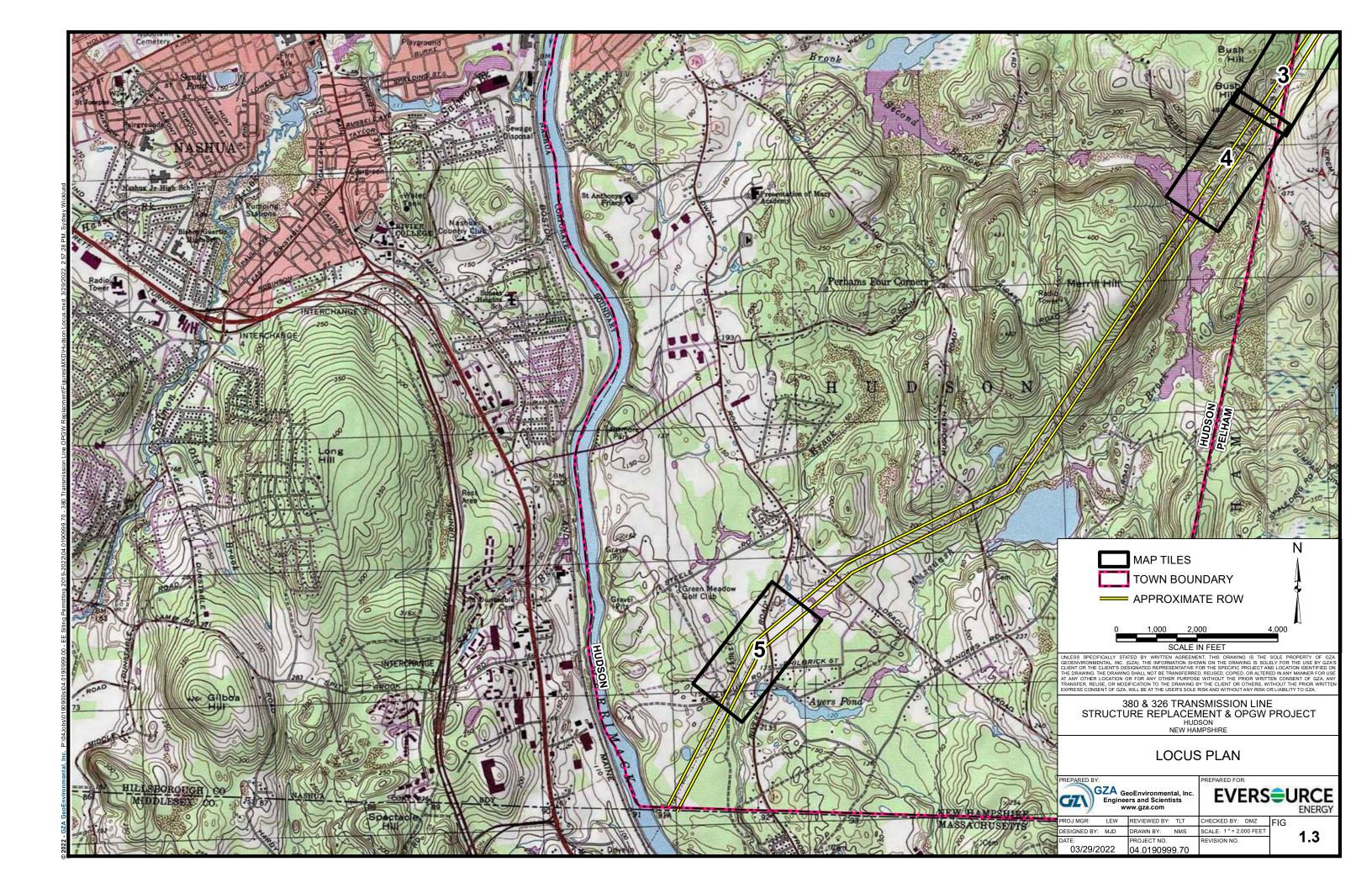
Tax Map 112-018-000 St. Laurent Realty LLC 8 Breakneck Road Hudson, NH 03051

Tax Map 112-008-000 Guilbeault, Robert 5 Marie Iane Hudson, NH 03051

Tax Map 112-011-000 Pilat, Dawn M. 2 Marie Lane Hudson, NH 03051



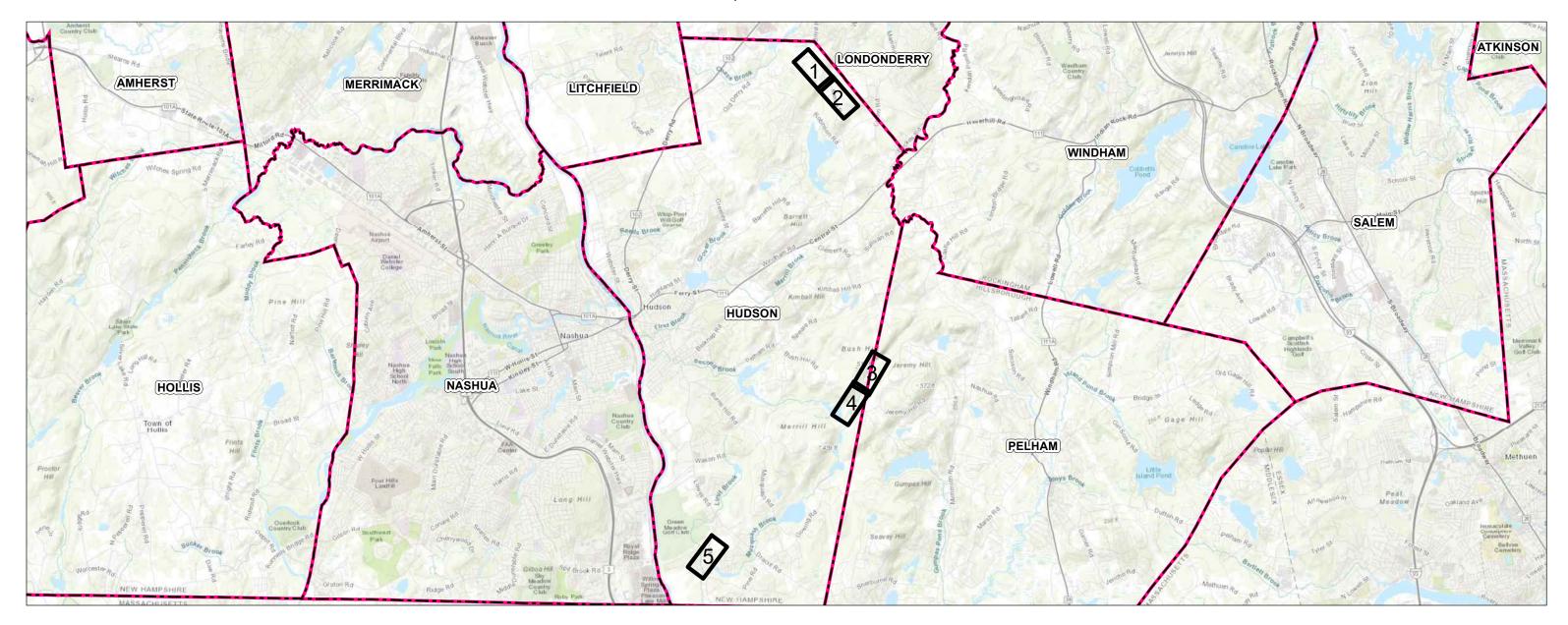




326 Transmission Line - Structure Replacement Project

HUDSON, NEW HAMPSHIRE Conditional Use Permit Planset

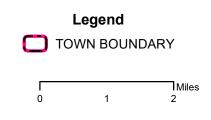
Date: April 11, 2022



PREPARED FOR:



13 Legends Drive Hooksett, NH 03106



INDEX OF FIGURES

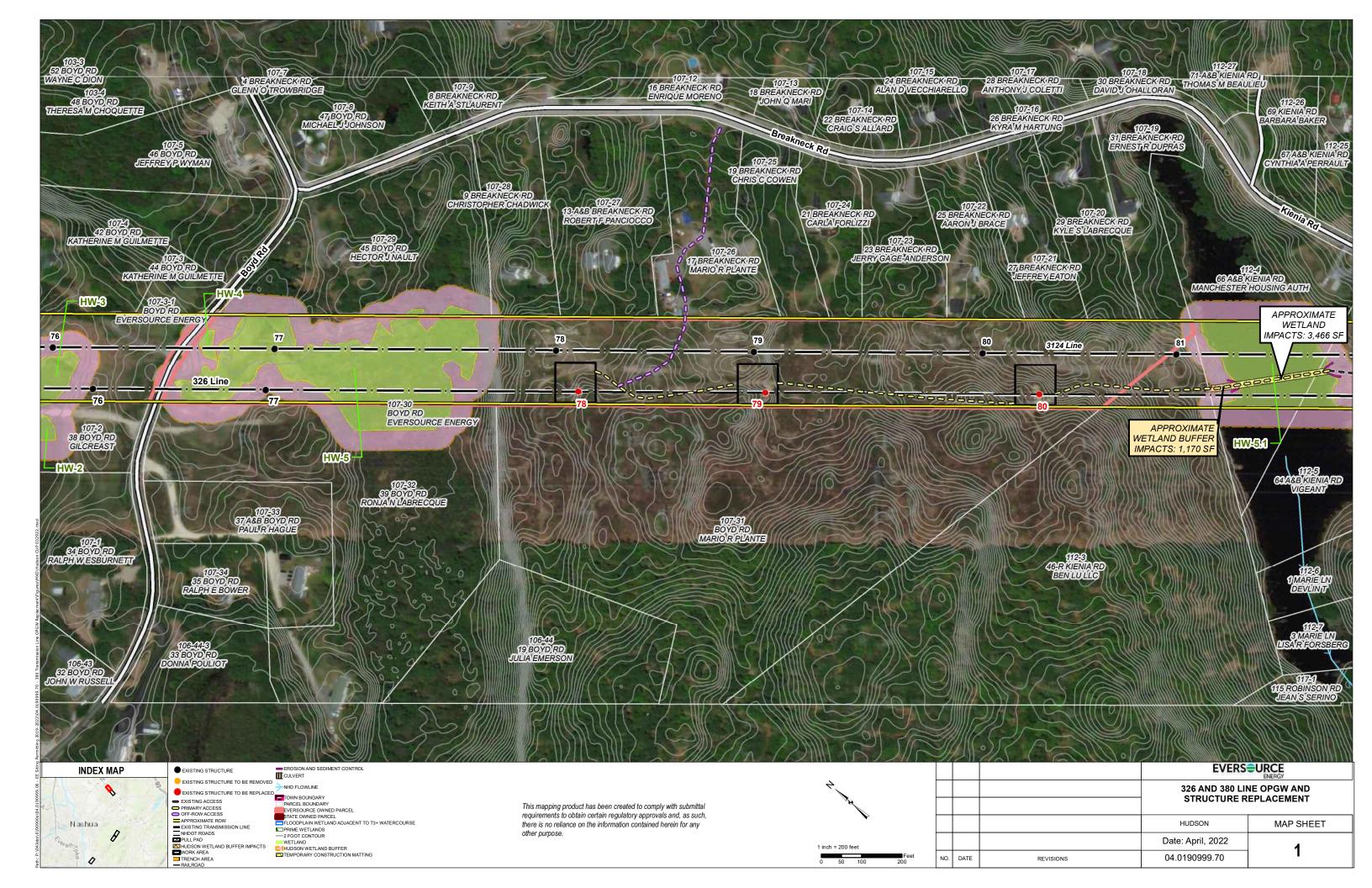
Title Sheet / Index Map Map Sheet 1-5

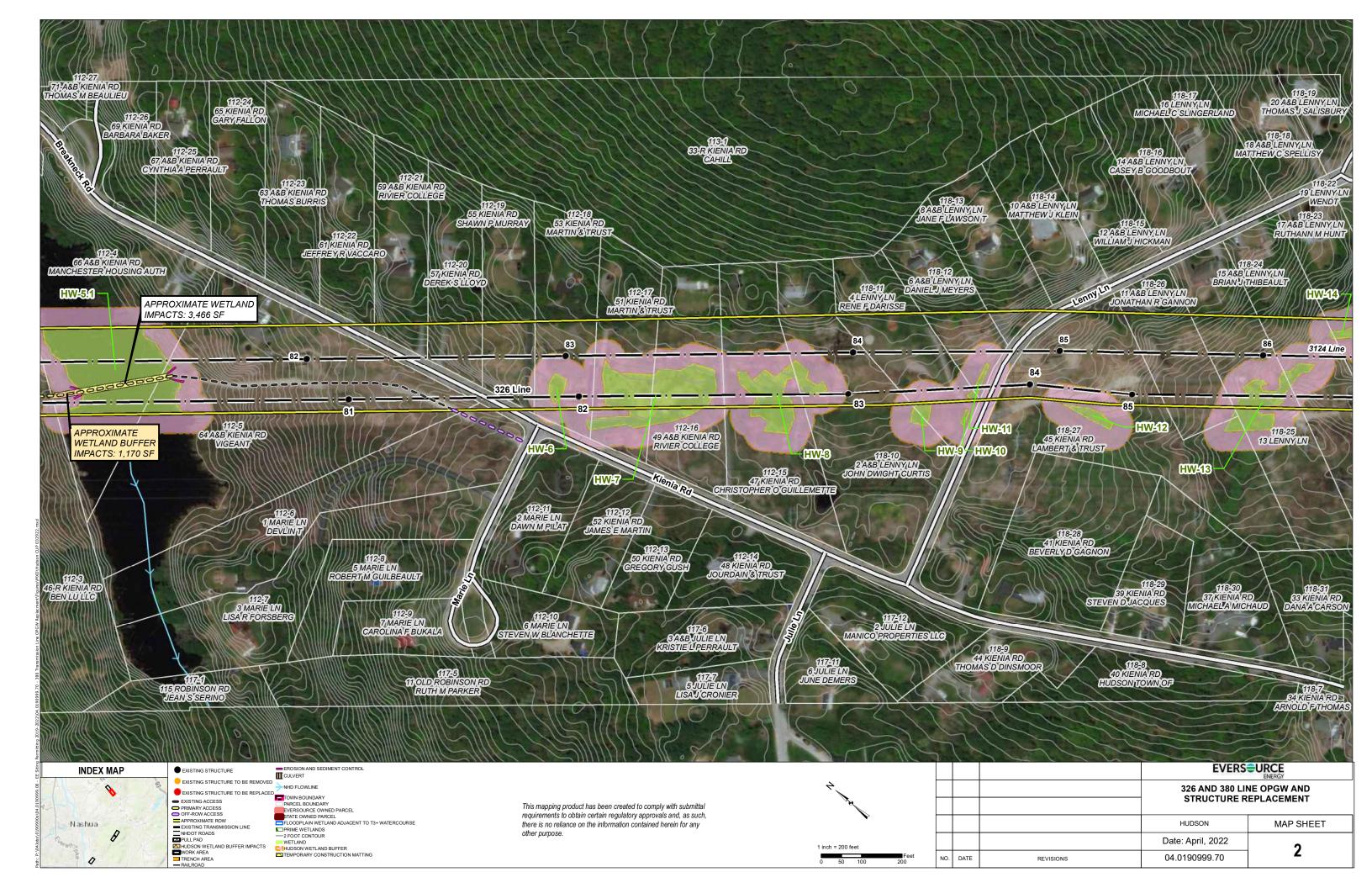
NO.	DATE	REVISIONS

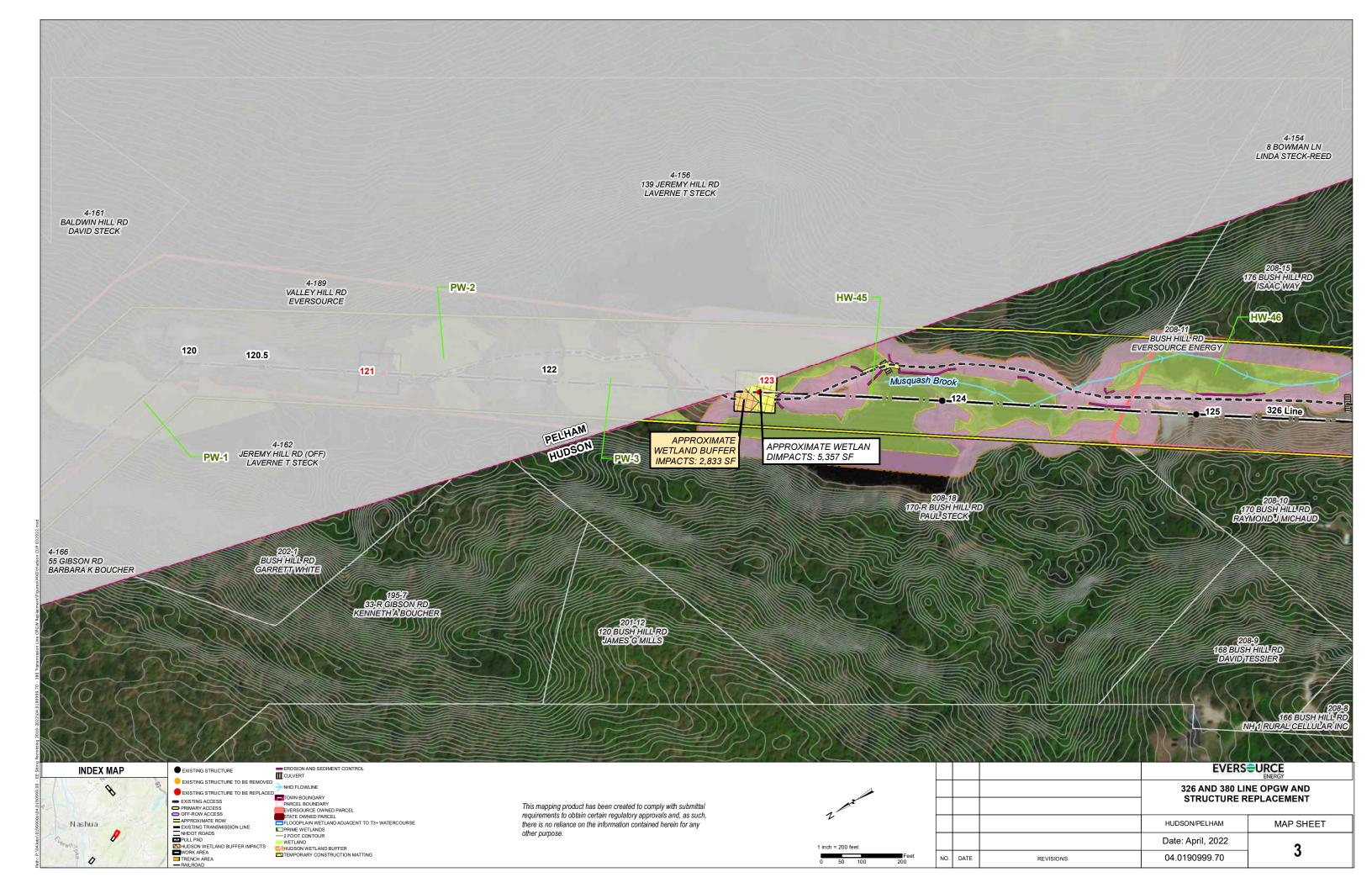
PREPARED BY:

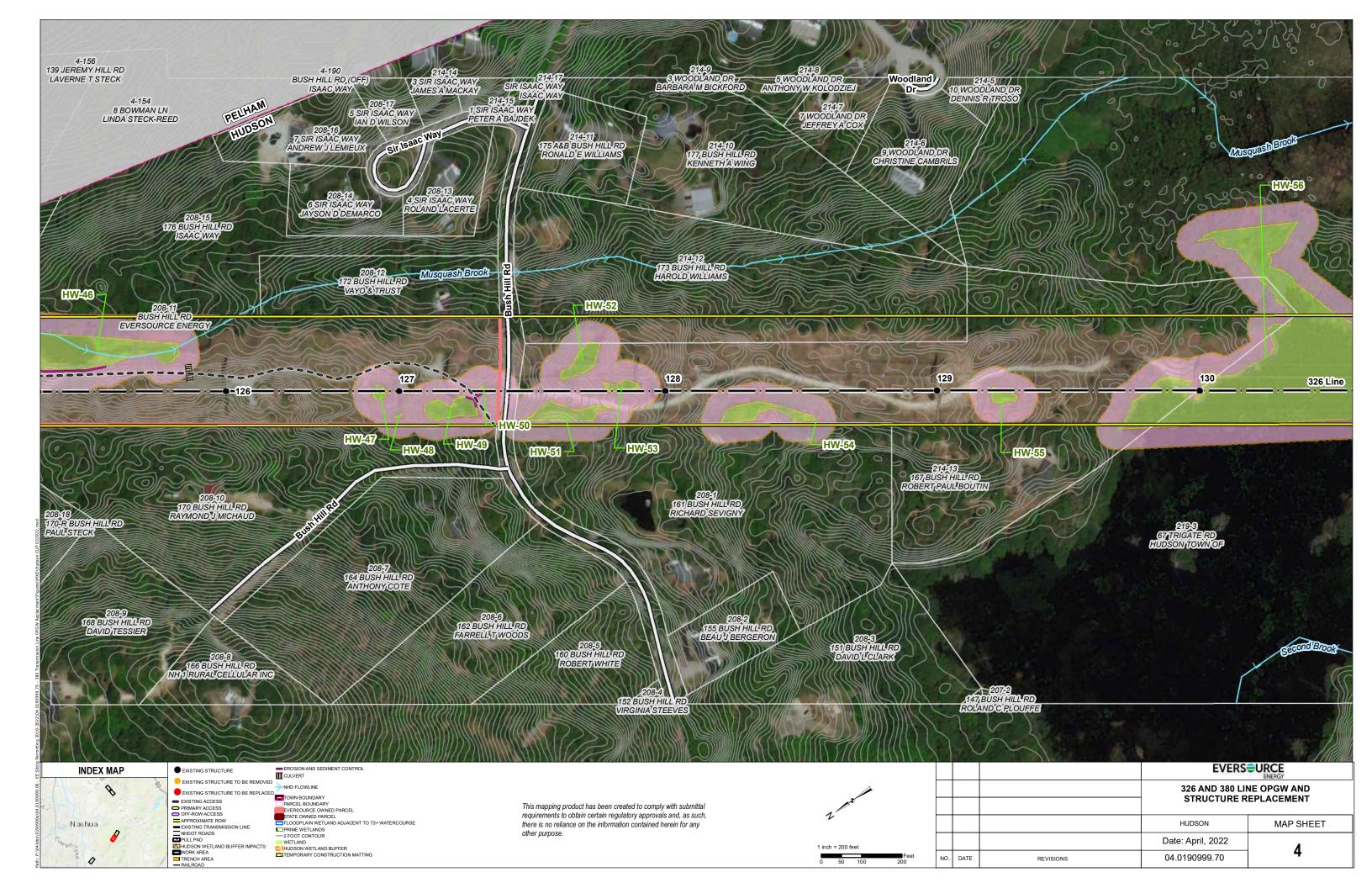


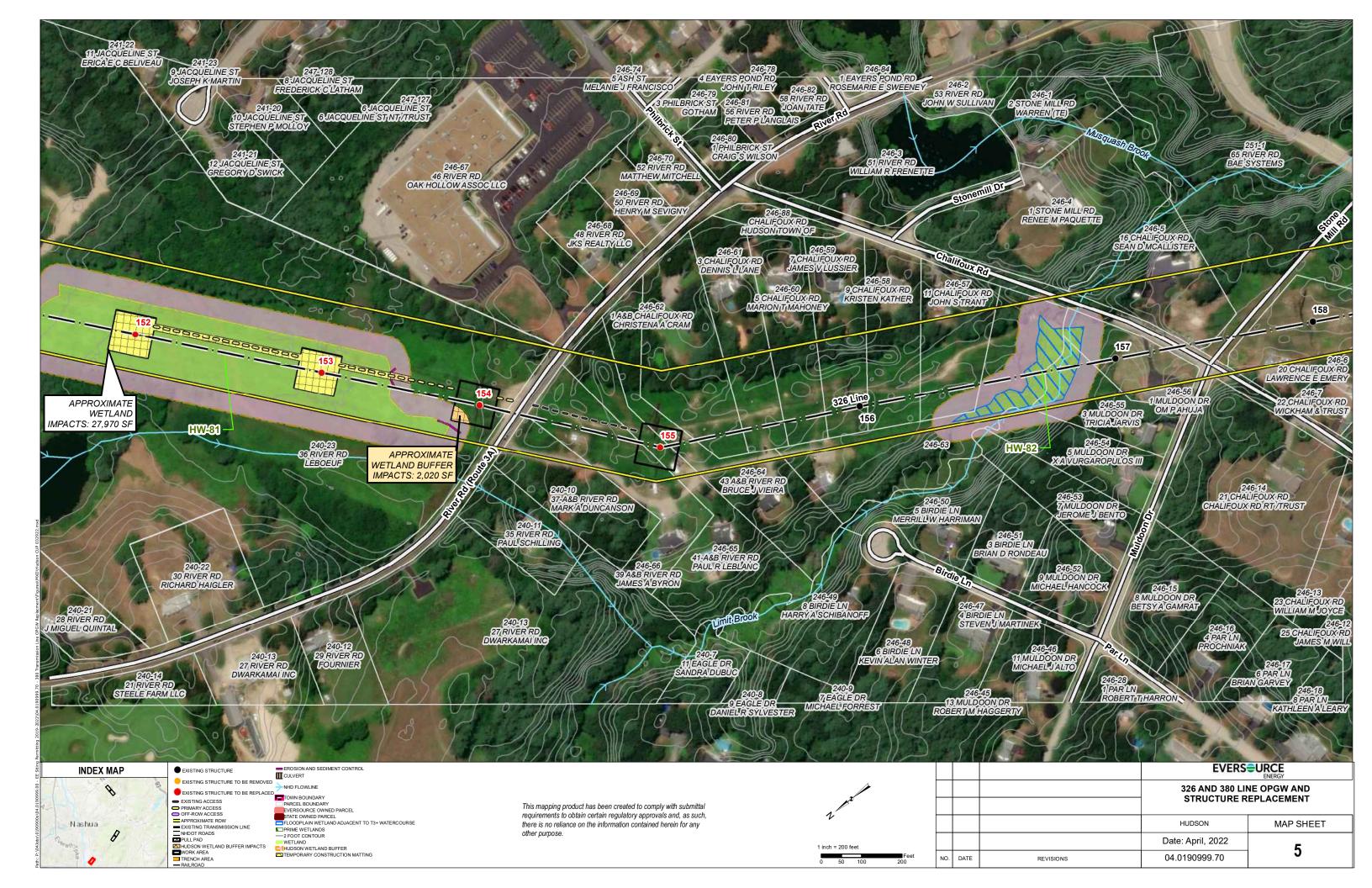
GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com











CONSTRUCTION SEQUENCE:

- 1. WETLAND BOUNDARIES TO BE CLEARLY MARKED PRIOR TO THE START OF CONSTRUCTION.
- 2. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAIL PROVIDED, AS NECESSARY, AND CONSISTENT WITH THE NHDES MARCH 2019 BMP MANUAL FOR UTILITY MAINTENANCE.
- 3. WETLAND IMPACTS ASSOCIATED WITH WETLAND CROSSINGS ARE REQUIRED FOR ACCESS BETWEEN STRUCTURES WITHIN THE RIGHT OF WAY.
- 4. ADEQUATE PRECAUTION SHALL BE EXERCISED TO AVOID SPILLAGE OF FUEL OILS, CHEMICALS, OR SIMILAR SUBSTANCES; NO FUELS, LUBRICANTS, CHEMICALS OR SIMILAR SUBSTANCES SHALL BE STORED BENEATH TREES OR IN THE VICINITY OF ANY WETLANDS, RIVER, STREAM OR OTHER BODY OF WATER; OR IN THE VICINITY OF NATURAL OR MAN-MADE CHANNELS LEADING THERETO. NO POWER EQUIPMENT SHALL BE STORED, MAINTAINED, OR FUELED IN ANY AREA ADJACENT TO A WETLAND, RIVER, STREAM OR OTHER BODY OF WATER.
- 5. REMOVE COMPLETELY ALL CONTAMINATION FROM ANY SPILLAGE OF CHEMICALS OR PETROLEUM PRODUCT WITH COMPLETE REHABILITATION OF THE AFFECTED AREA.
- 6. ACCESS ROUTES HAVE BEEN SELECTED TO PREVENT DEGRADATION OF THE RIGHT-OF-WAY AND MINIMIZE ENVIRONMENTAL IMPACT. OPERATIONS SHALL BE CONFINED TO THE SPECIFIED ACCESS ROUTES WITHIN THE PROPOSED WETLAND IMPACT AREA. ACCESS ROUTES SHALL NOT EXCEED A 16 FOOT-WIDTH.
- 7. IMPACT TO VEGETATION WITHIN WETLANDS WILL BE LIMITED TO THE EXTENT NECESSARY TO PLACE THE SWAMP MATS WHERE REQUIRED.
- 8. LOW GROWING VARIETIES OF VEGETATION ADJACENT TO WETLANDS SHALL BE PRESERVED TO THE EXTENT POSSIBLE. STUMPS AND ROCKS SHALL NOT BE REMOVED, AND THERE SHALL BE NO EXCAVATIONS, FILLS OR GRADING DONE ADJACENT TO WETLANDS, UNLESS MINOR EXCAVATIONS IS NEEDED FOR ACCESS.
- 9. TIMBER MATS AND PERIMETER CONTROLS WILL BE USED ALONG ACCESS ROUTES AND WORK PADS WITHIN WETLAND AREAS. THESE MATS ARE CONSTRUCTED OF HEAVY TIMBERS OR COMPOSITE MATERIAL, BOLTED TOGETHER, AND ARE PLACED END-TO-END IN THE WETLAND TO SUPPORT HEAVY EQUIPMENT. ALL SWAMP MATS SHALL BE PLACED AND REMOVED SO AS NOT TO CAUSE ANY RUTS, CHANNELS OR DEPRESSIONS, OR OTHERWISE CAUSE ANY UNDUE DISTURBANCE TO WETLANDS.
- 10. IF TIMBER MAT BMP IS NOT SUFFICIENT DUE TO HIGH WATER, ADDITIONAL BMP'S MAY INCLUDE THE PLACEMENT OF GEOTEXTILE FABRIC, 3"-4" STONE, AND GRAVEL TO PROVIDE A SUITABLE ROAD BED. A TEMPORARY CULVERT MAY BE REQUIRED IN AREAS OF HIGH FLOW TO MAINTAIN HYDROLOGIC CONNECTIVITY. ALL MATERIAL WILL BE REMOVED FROM JURISDICTIONAL AREAS AFTER CONSTRUCTION COMPLETION.
- 11. NO MATERIAL SHALL BE PLACED IN ANY LOCATION OR IN ANY MANNER SO AS TO IMPAIR SURFACE WATER FLOW INTO, THROUGH OR OUT OF ANY WEITAND AREA. NO INSTALLATION SHALL CREATE AN IMPOUNDMENT THAT WILL IMPEDE THE FLOW OF WATER OR CAUSE FLOODING.
- 12. NO MATERIAL SHALL BE TAKEN FROM THE WETLANDS AREA EXCEPT THAT WHICH MUST NECESSARILY BE REMOVED FOR THE STRUCTURE OR FOUNDATION PLACEMENT OR STABILIZATION. ALL EXCESS MATERIAL TAKEN FROM THE WETLAND WILL BE REMOVED FROM THE SITE.
- 13. ANY PROPOSED SUPPORT FILLS SHALL BE CLEAN GRAVEL AND STONE, FREE OF WASTE METAL PRODUCTS, ORGANIC MATERIALS AND SIMILAR DEBRIS AND SHALL NOT EXCEED THE AMOUNT PERMITTED. THIS ALLOWABLE FILL IS THE ONLY FILL THAT MAY REMAIN IN THE WETLAND AFTER CONSTRUCTION. ALL CUT AND FILLS SLOPES SHALL BE SEEDED/LOAMED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
- 14. INSTALL NEW POLES IN THE LOCATIONS DESIGNATED ON THE PERMITTING PLANS.
- 15. CABLE INSTALLATION WILL BE PERFORMED IN A MANNER SO AS TO AVOID, OR LIMIT TO THE MAXIMUM EXTENT POSSIBLE, TRAVERSING WETLANDS WITH HEAVY EQUIPMENT. IN SOME CASES, A HELICOPTER MAY BE USED DURING THE INSTALLATION TO MINIMIZE IMPACTS.
- 16. REMOVAL OF THE OLD POLE WILL OCCUR ONCE THE CABLE HAS BEEN INSTALLED ON THE NEW STRUCTURE. THE OLD STRUCTURES WILL BE REMOVED FROM THE SITE. POLES WILL BE CUT AT THE GROUND SURFACE. FOOTINGS WILL BE ABANDONED IN PLACE TO MINIMIZE IMPACTS.
- 17. ALL TIMBER MATS, MATERIAL, AND DEBRIS WILL BE REMOVED FROM THE WORK AREA UPON THE COMPLETION OF CONSTRUCTION.
- 18. UPLAND DISTURBED AREAS SHALL BE RESTORED AND STABILIZED UPON COMPLETION OF CONSTRUCTION. WORK PAD RESTORATION SHOULD INCLUDE REDUCING THE WORK PAD TO A 30 BY 60 FOOT AREA, AND REDUCING SLOPES TO A MAXIMUM OF 25%. STOCKPILED MATERIAL SHOULD BE SPREAD TO REDUCE ANY UNNECESSARY SLOPES. GRAVEL WORK PADS AND SLOPES SHOULD BE SCARIFIED TO A MINIMUM OF 3" BEFORE SPREADING TOPSOIL/LOAM.
- 19. ALL TEMPORARY WETLAND IMPACTS WILL BE RE-GRADED TO ORIGINAL CONTOURS FOLLOWING CONSTRUCTION. NEW ENGLAND EROSION CONTROL/RESTORATION MIX, AVAILABLE THROUGH NEW ENGLAND WETLAND PLANTS, INC., 820 WEST STREET, AMHERST, MA 01002, 413-548-8000, OR EQUIVALENT SEED MIX SHALL BE APPLIED IN WETLAND AREAS THAT ARE NOT INUNDATED, AS NECESSARY.
- 20. MULCH USED FOR STABLIZATION SHALL CONSIST OF SEEDLESS STRAW.
- 21. SEDIMENT AND EROSION CONTROL MEASURES WILL BE EVALUATED AND REMOVED IF NECESSARY UPON THE COMPLETION OF CONSTRUCTION.
- 22. COMMERCIAL LOAM WILL NOT BE USED AS PART OF RESTORATION. ONLY IN-SITU TOPSOIL WILL BE USED TO RESTORE DISTURBED AREAS.
- 23. WHERE OPTIMAL TURTLE BREEDING AREAS OVERLAP WITH DISTURBANCE (AS DETERMINED BY AN ENVIRONMENTAL MONITOR), MINERAL SOILS WILL BE SCARIFIED TO ALLEVIATE COMPACTION AND BECOME MORE SUITED FOR TURTLE BREEDING.
- 24. NATURALLY VEGETATED LOCAL WETLAND BUFFER AREAS OUTSIDE OF EXISTING TRAILS MUST BE RESTORED UPON COMPLETION OF WORK.

WINTER CONSTRUCTION NOTES

- 1. PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED. STABILIZATION METHODS SHALL INCLUDE SEEDING AND MULCH, AND INSTALLATION OF EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS
- DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE TEMPORARILY STABILIZED WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.

GENERAL NOTES:

- OWNER: EVERSOURCE ENERGY 13 LEGENDS DRIVE HOOKSETT, NH 03106
- 1. BASE PLAN PROVIDED BY EVERSOURCE ENERGY. EVERSOURCE ENERGY PROVIDED THE WETLAND DATA. EVERSOURCE ENERGY PROVIDED THE UTILITY DESIGN.
- WORK
- 4. NORMANDEAU COMPLETED WETLANDS FUNCTION AND VALUES ASSESSMENT IN 2016 IN ACCORDANCE WITH THE ACOE'S "HIGHWAY METHODOLOGY WORKBOOK SUPPLEMENT," SEPTEMBER 1999.
- 6. THE PROJECT WILL BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.
- 7. IN ACCORANCE WITH ENV-WQ 1505.02, THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCEED 5 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED: A MINIMUM 85 PERCENT VEGETATED GROWTH HAS BEEN ESTABLISHED A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL HAS BEEN INSTALLED OR, EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

EROSION CONTROL NOTES:

- 1. INSTALLATION OF EROSION CONTROL GRINDINGS AND/OR SILT FENCES SHALL BE COMPLETE PRIOR TO THE START OF WORK IN ANY GIVEN AREA. EROSION CONTROLS SHALL BE USED DURING CONSTRUCTION AND REMOVED WHEN ALL SLOPES HAVE A HEALTHY STAND OF VEGETATION COVER. EROSION CONTROL MEASURES SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER .25" OR GREATER RAINFALL EVENTS.
- 2. AS REQUIRED, CONSTRUCT TEMPORARY BERMS, SILTATION FENCES, SEDIMENT TRAPS, ETC. TO PREVENT EROSION & SEDIMENTATION OF WETLANDS.
- 3. THE WORK AREA SHALL BE GRADED AND OTHERWISE SHAPED IN SUCH A MANNER AS TO MINIMIZE SOIL EROSION, SILTATION OF DRAINAGE CHANNELS, DAMAGE TO EXISTING VEGETATION, AND DAMAGE TO PROPERTY OUTSIDE LIMITS OF THE WORK AREA. EROSION CONTROL GRINDINGS WILL BE NECESSARY TO
- 4. ANY STRIPPED TOPSOIL SHALL BE STOCKPILED, WITHOUT COMPACTION, AND STABILIZED WITH BMPS.
- RYEGRASS PRIOR TO OCTOBER 15TH.
- 6. EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER EVERY HALF-INCH OF RAINFALL.

3. AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL (NHDOT 304.3).

2. JURISDICTIONAL WETLANDS WERE DELINEATED BY NORMANDEAU IN 2016, IN ACCORDANCE WITH THE 1987 U.S. ARMY CORPS OF ENGINEERS' "WETLANDS DELINEATION MANUAL, TECHNICAL REPORT Y-87-1," AND REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTH CENTRAL AND NORTHEAST REGION," JANUARY 2012. WETLANDS WILL BE REVIEWED BY GZA GEOENVIRONMENTAL, INC. PRIOR TO START

3. NORMANDEAU EVALUATED WETLANDS AS POTENTIAL VERNAL POOLS IN 2016 IN ACCORDANCE WITH "IDENTIFICATION AND DOCUMENTATION OF VERNAL POOLS IN NEW HAMPSHIRE," 1997, NEW HAMPSHIRE FISH AND GAME DEPARTMENT, NONGAME AND ENDANGERED WILDLIFE PROGRAM.

5. SITE PLAN IS FOR PERMITTING PURPOSES ONLY AND DOES NOT REPRESENT A PROPERTY BOUNDARY SURVEY.

8. IN THE EVENT THAT A RARE OR THREATENED SPECIES IS OBSERVED, THE NEW HAMPSHIRE FISH AND GAME AND NEW HAMPSHIRE NATURAL HERITAGE BUREAU WILL BE NOTIFIED. TURTLE NESTING SEASON EXTENDS FROM LATE MAY THROUGH THE BEGINNING OF JULY. IF WOOD, BLANDING'S OR SPOTTED TURTLES ARE FOUND LAYING EGGS IN THE WORK AREA, CONTACT MELISSA DOPERALSKI AT 603-271-1738 OR JOSH MEGYESY AT 603-271-1125 FOR FURTHER INSTRUCTIONS. OBSERVATIONS OF NORTHERN BLACK RACER SNAKES SEEN IN ANY AREA FROM THE END OF SEPTEMBER THROUGH THE MONTH OF APRIL MUST BE IMMEDIATELY REPORTED TO THE NHFG DEPARTMENT (BRENDAN CLIFFORD AT 603-271-0463 OR MELISSA DOPERALSKI AT 603-271-1738). IF NORTHERN BLACK RACER SNAKES SEEN IN ANY AREA FROM THE END OF SEPTEMBER THROUGH THE MONTH OF APRIL MUST BE IMMEDIATELY REPORTED TO THE NHFG DEPARTMENT (BRENDAN CLIFFORD AT 603-271-0463 OR MELISSA DOPERALSKI AT 603-271-1738). IF NORTHERN BLACK RACER IS FOUND IN A WORK AREA FROM NOVEMBER THROUGH THE MONTH OF APRIL MUST BE REPORTED TO THE NHFG DEPARTMENT (BRENDAN CLIFFORD AT 603-271-0463 OR MELISSA DOPERALSKI, WORK AREA FROM NOVEMBER THROUGH THE MONTH OF APRIL.

5. PERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS. WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 15 TO SEPTEMBER 15. NO DISTURBED AREA SHALL BE LEFT EXPOSED DURING WINTER MONTHS, PLANT ANNUAL

7. EROSION CONTROL MATTING, IF REQUIRED, WILL CONSIST OF JUTE MATTING. MATTING WITH WELDED PLASTIC OR 'BIODEGRADABLE PLASTIC' NETTING OR THREAD WILL BE AVOIDED TO LIMIT UNINTENTIONAL MORTALITY TO SNAKES.

UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOEWURCOMMENTAL, INC. (GZA), THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR THE USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED INAUY MANNER FOR USE AT ANY OTHER LIOCATION ON FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF CZA, ANY TRANSFER, REUSE, OR MODFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN ENDENTION TO THE PRIOR WRITTEN ENDENTION TO THE DRAWING BY THE CLIENT OR OTHERS. WITHOUT THE PRIOR WRITTEN CONSENT OF CZA. WILL BEAT THE USER'S SOLE BISK AND WITHOUT TANY BKS OR LIABILITY TO GZA.

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NOTES			
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GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		EVERS	
PROJ MGR: LEW R	EVIEWED BY: TLT	CHECKED BY: DMZ	SHEET
DESIGNED BY: MJD D	RAWN BY: MJD	SCALE:	S1
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