

January 16, 2024 File No. 04.0191410.47

GEOTECHNICAL

ENVIRONMENTAL

ECOLOGICAL

WATER

CONSTRUCTION MANAGEMENT

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www.gza.com

City of Portsmouth
Planning Board
Attn: Rick Chellman, Chairman
1 Junkins Ave, 3rd Floor
Portsmouth, New Hampshire 03801

Re: Conditional Use Permit Application
Eversource Energy
Resistance Substation Retirement Project
Portsmouth, New Hampshire

Dear Chairman Chellman:

This letter transmits a Conditional Use Permit Application on behalf of Public Service Company of New Hampshire doing business as Eversource Energy (Eversource), for Resistance Substation Retirement 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 impacts within the City of Portsmouth.

The proposed project includes the retirement the Resistance Substation located in Portsmouth, New Hampshire and associated electric line work required to retire the substation. The electric line work includes the removal of 0.6 miles of the existing T-13 Transmission Line and installation of a new 0.6-mile 34.5 kV Distribution Line to connect the new Portsmouth terminal. Additionally, the project requires the reconductoring and replacement of existing structures along 1.5 miles of the 3171 Transmission Line from Ocean Road to the 2102 Tap, which in total crosses through portions of Portsmouth and Greenland, New Hampshire, for approximately 2.1 miles. See **Figure 2 – Access and Permitting Plans** for a depiction of the proposed project. In Portsmouth, the proposed work crosses through primarily rural and industrial upland and wetland areas. Natural cover within the ROW includes upland shrublands and wetland emergent and scrubshrub habitats.

In total, the proposed project requires approximately 256,869 sq. ft. of temporary wetland impact for equipment access and work pad placement. The proposed project also requires 79,310 sq. ft. of temporary buffer impact in



uplands for access and work pad placement. A summary of proposed wetland and buffer impacts is provided in the table below.

Table 1 – Summary of Wetland and Surface Water Buffer Impacts

Wetland ID	Classification	Temporary Wetland Impact (sq. ft.)	Temporary Upland Buffer Impact (sq. ft.)		
GW-1	PEM1/PSS1/PFO1E,Fg/R2UB	102,309	6,931		
PW-1	PEM1/PSS1E,Fg	141,042	17,373		
PW-2	PEM1/PSS1E	0	0		
PW-3	PEM1/PSS1E	0	0		
PW-4	PEM1/PSS1E	0	0		
PW-5	PEM1/PSS1E	0	0		
PW-6	PEM1/PSS1E	3,530	19,968		
PW-7	PEM1/PSS1E,H	2,089	5,666		
PW-8	PEM1/PSS1E	0	0		
PW-9	PEM1/PSS1Ex	0	0		
PW-10	PSS1Ex	0	3,029		
PW-11	PSS1/PEM1Ex	0	3,029		
PW-12	PEM1/PSS1E	3,416	5,994		
PW-13	PEM1/PSS1E	4,483	11,988		
PW-14	PSS1/PEM1E	0	3,103		
PW-15	PEM1E	0	2,229		
	Total	256,869	79,310		

Key to classifications:

P = palustrine wetland system

SS = scrub-shrub, 1 = broad-leaved deciduous EM = emergent, 1= persistent, 5 = Phragmites

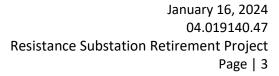
Modifiers

E = nontidal, seasonally flooded/saturated H = permanently flooded

The proposed project is necessary in order to support current and future electricity demands in the region. The existing wood structures will be replaced with wood equivalent steel structures in order to increase the long-term reliability of the line. There are no proposed expansions to the ROW associated with this project. In addition, work is proposed within an existing and maintained utility ROW, and therefore tree removal is not anticipated as part of this project. Pole replacements will be on average 5-10-ft higher than existing poles due to updated National Electric Safety Code Standards. Work is proposed to begin in May 2024 and pending emergencies and weather-related delays, the proposed project will be completed by December 2024.

In addition to this Conditional Use Permit, Eversource will also be filing a Standard Dredge and Fill Wetlands Application with the New Hampshire Department of Environmental Services (NHDES) Wetlands Bureau.

Wetlands were delineated by GZA in 2016 and confirmed in 2022 and 2023 in accordance with the United States Army Corps of Engineers (USACE) Wetlands Delineation Manual using the Routine Determinations Method, and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual as required by the New Hampshire Department of Environmental Services (NHDES) Wetlands Bureau and the USACE. GZA





photographed resources and recorded data relevant to functions and values provided by these natural resources within the ROW in November 2022 and June and August 2023. GZA classified wetlands in accordance with the "Classification of Wetlands and Deepwater Habitats of United States" (Federal Geographic Committee, 2013).

Where proposed access and work pads are located within existing wetlands, timber matting will be utilized to minimize and prevent rutting and compaction within wetlands. Work will be conducted in accordance with NHDES Best Management Practices Manual for Utilities in and Adjacent to Wetlands and Waterbodies (March 2019). Prior to placement of timber matting within wetlands, timber mats will be reviewed to ensure cleanliness to prevent spread of invasive plant species. Upon completion of work, timber matting will be removed and temporarily impacted wetlands will be stabilized with straw and will be restored using a native herbaceous seed mix.

In accordance with the City of Portsmouth Zoning Ordinance, Article 10, section 10.1017.60, a Conditional Use Permit may be issued by the Planning Board for the construction of Public and Private Utilities within Rights-of-Ways in wetlands and wetland buffers provided that certain conditions are satisfied. The following section describes how the proposed project meets the stated conditions.

- A. The proposed construction is in the public interest. The proposed project is necessary to maintain the power supply of the existing distribution and transmission lines and if the work is not conducted, the utility poles could eventually fail and prevent power transmission. The project will improve the existing distribution line and increase reliability. This project does not propose expansion of the existing utility line ROW. The project includes replacement and maintenance of existing infrastructure within an existing and maintained utility ROW.
- B. Design, construction, and maintenance methods will utilize best management practices to minimize any detrimental impact of such use upon the wetland and will include restoration of the site as nearly as possible to its original grade, condition, and vegetated state. As previously mentioned, the proposed work will be conducted in accordance with NHDES Best Management Practices Manual for Utilities in and Adjacent to Wetlands and Waterbodies (March 2019). The access for the project has been sited to avoid prime wetlands and prime wetland buffers to the greatest extent feasible. In addition, the project utilizes existing access trails within the ROW wherever possible to limit and prevent new disturbance. Where access ways temporarily cross a wetland or wetland buffer, the proposed project has been designed to minimize temporary wetland impacts through the use of timber matting. Matting will be temporarily placed in a narrow section of the wetland, to provide appropriate access and prevent rutting and compaction.

Best management practices that include the installation and maintenance of erosion and sediment barriers will be used during construction. In addition, timber matting will be reviewed prior to placement to prevent the spread of invasive plant species. Upon completion of work, temporarily impacted areas will be seeded and mulched with a native herbaceous seed mix to establish permanent vegetative cover, as necessary, to promote restoration as nearly as possible to its original grade, condition, and vegetated state.

C. No alternative feasible route exists which does not cross or alter a wetland or have a less detrimental impact on a wetland. There are no alternatives with less impact that maintain the safety and reliability



of the existing transmission line. Access is sited within an existing and maintained utility ROW. In addition, the project has been designed to utilize existing historical access routes along the ROW, where possible, to minimize impacts to wetlands.

D. Alterations of natural vegetation or managed woodland will occur only to the extent necessary to achieve construction goals. The proposed project will utilize existing access trails within the ROW to limit disturbance to wetlands and wetland buffers to the greatest extent feasible. Timber matting will be used to limit impacts on natural vegetation. Best management practices will be used to restore the site as nearly as possible to its original grade, condition and vegetated state. Permanent alterations of natural vegetation are proposed only where Eversource has identified utility structures which must be replaced in order to maintain current and projected future energy demands.

GZA conducted a wetland Function and Value Assessment November 2022. Wetlands within the ROW corridor are typically capable of production export, nutrient removal, and groundwater recharge and discharge. Common principal functions and values include sediment and toxicant retention due to wetlands having close proximity to roadways, wildlife habitat, and flood flow alteration. It is not anticipated that the long-term functions and values of these wetlands will be impacted as a result of the proposed project. The project is maintenance of existing utility infrastructure.

Should you have any questions, please contact Mr. Conor Madison at 603-232-8784 or at conor.madison@gza.com.

Very truly yours,

GZA GEOENVIRONMENTAL, INC.

Conor E. Madison, CPESC, CESSWI

Project Manager

Deborah M. Zarta Gier, CNRP

Debruh M. Zache Ca

Principal

Tracy L. Tarr, CWS, CESSWI Consultant/Reviewer

Attachments: Conditional Use Permit Application Form - Online

List of Abutters Photo Log

Wetland Function and Value Assessment

Figure 1 – Locus Plan

Figure 2 – Access and Permitting Plans

Application Fee



List of Abutters



Resistance Substation Retirement Project Eversource Energy Abutters List Portsmouth, New Hampshire

Wetland Scientist

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

Tax Map 0278-0001-0000, 0280-0003-0000, 0281-0001-0000, 0260-0140-0000, 0260-0159-0000, 0259-0010-0000, 0259-0014-0000, 0240-0002-1001

City of Portsmouth PO Box 628 Portsmouth, NH 03801

Tax Map 0258-0054-0000, 0263-0001-0006,

State of NH Fish & Game 11 Hazen Drive Concord, NH 03301

Tax Map 0216-0001-0010

First Citizens Bank & Trust Co FCB Mail Code DAV41 100 E Tyron Road Raleigh, NC 27603

Tax Map 0279-0004-0000

Darvid Elisabeth Rev Trust 1630 Greenland Road Portsmouth, NH 03801

Tax Map 0320-0000-0000, R22-032-000

Pease Airport District 55 International Drive Portsmouth, NH 03801

Tax Map 0279-0007-0000

Shevlin Family Rev Trust 1648 Greenland Road Portsmouth, NH 03801

Tax Map 0300-0001-0000

James Jalbert 185 Grafton Road Portsmouth, NH 03801

Tax Map 0214-0003-0000, 0281-0002-0000, R21-052-000 Owner/Applicant

Eversource Energy PO Box 270 Hartford, CT 06141

Tax Map 0263-0003-0000, 0278-0002-0000, 0278-0003-0000, 0282-0005-0000, 0259-0001-0000, 0234-0007-0003, 0212-0122-0000, R20-001-000

City of Portsmouth
1 Junkins Ave
Portsmouth, NH 03801

Tax Map 0279-0001-0000, 0279-0002-0000, 0279-0008-0000, 0279-0009-0000

Aranosian Oil Co 557 N State Street Concord, NH 03301

Tax Map 0216-0001-0011, 0213-0001-0000, 0213-0012-0000, 0216-0001-008A

135 Commerce Way LLC 210 Commerce Way Suite 300 Portsmouth, NH 03801

Tax Map 0279-0006-0000

PDNED Greenland LLC 75 Park Plaza Boston, MA 0216

Tax Map 0279-0003-0000

Christopher Beliveau 1620 Greenland Road Portsmouth, NH 03801

Tax Map 0280-0002-0000, R21-045-

National Propane LP PO Box 798 Valley Forge, PA 19482

Tax Map 0260-0001-0000

Shephane & Matthew Campagna 100 Sherburne Road Portsmouth, NH 03801

Tax Map 0213-0011-0000, 0214-0001-0000, 0214-0002-0000, 58-04, 28-5

GSP Schiller LLC 431 River Road Bow, NH 03304

Tax Map 0165-0014-0000, 0165-0014-0000, 0165-0014-0000

Boston & Maine Corp. Iron Horse Pk High Street No. Billerica, MA 01862

Tax Map 0121-0001-0000, 0121-0001-0000

Boston & Maine Railroad Market Street Portsmouth, NH 03801

Tax Map 0263-0001-0001

Portsmouth Medical Office Bldg 100 Griffin Road Portsmouth, NH 03801

Tax Map 0280-0001-0000, R21-048-000

Coastal Concrete Company Inc. PO Box 540 Wakefield, MA 01880

Tax Map 0279-0005-0000

Robert Keene 1640 Greenland Road Portsmouth, NH 03801

Tax Map 0262-0010-0000

United States America GZA Property Management 10 Causeway Street Boston, MA 02222

Tax Map 0260-0004-0000

Philip Griggs 176 Sherburne Road Portsmouth, NH 03801



Resistance Substation Retirement Project Eversource Energy Abutters List Portsmouth, New Hampshire

Tax Map 0260-0137-0000

Cynthia Jeffries 7 Victory Road Portsmouth, NH 03801

Tax Map 0260-0141-0000

Jared Bedrick 296 Colonial Drive Portsmouth, NH 03801

Tax Map 0260-0144-000

Craig Simmons 9 Worthen Road Portsmouth, NH 03801

Tax Map 0318-0003-0000

Pease Development Authority Treatment Plant Corporate Drive Portsmouth, NH 03801

Tax Map 0259-0005-0000

Gail Wholey 933 Greenland Road Portsmouth, NH 03801

Tax Map 0262-0002-0000

Richard Blalock 922 Greenland Road Portsmouth, NH 03801

Tax Map 0262-0005-0000

Shannon Francois 962 Greenland Road Portsmouth, NH 03801

Tax Map 0262-0008-0000

Amy Lalime 1004 Greenland Road Portsmouth, NH 03801

Tax Map 0259-0012-0000

Orchard Park Condos 875 Greenland Road Portsmouth, NH 03801

Tax Map 0260-0138-0000

Sean Evans 96 Sagamore Road Rye, NH 03870

Tax Map 0260-0142-0000

Michael Doll 284 Colonial Drive Portsmouth, NH 03801

Tax Map 0260-0145-0000

Kimberly Scott 14 Worthen Road Portsmouth, NH 03801

Tax Map 0259-0002-0000

Foley/Ciccolini Family Trust 61 Malcom Road South #16 Bridgton, ME 04009

Tax Map 0259-0009-0000

Douglas Crossman 52 Shelburne Road Portsmouth, NH 03801

Tax Map 0262-0003-0000

Michael Thomson 930 Greenland Road Portsmouth, NH 03801

Tax Map 0262-0006-0000

Meghan Rice 1002 Greenland Road Portsmouth, NH 03801

Tax Map 0262-0009-0000

State of NH State House Concord, NH 03301

Tax Map 0529-0013-0000

Chadwick & Trefethen Inc 50 Borwich Ave Portsmouth, NH 03801

Tax Map 0260-0139-0000

Thomas Oleary 316 Colonial Drive Portsmouth, NH 03801

Tax Map 0260-0143-0000

Paul Monaghan 272 Colonial Drive Portsmouth, NH 03801

Tax Map 0260-0169-0000

Amanda Kaplan 664 State Street Apt 4 Portsmouth, NH 03801

Tax Map 0259-0003-0000

Amanda & Peter Getman 888 Greenland Road Portsmouth, NH 03801

Tax Map 0262-0001-0001

Steven Cobert 20 Shelburne Road Portsmouth, NH 03801

Tax Map 0262-0004-000

Kate Arruda 946 Greenland Road Portsmouth, NH 03801

Tax Map 0262-0007-0000

Ashley Spinale 1000 Greenland Road Portsmouth, NH 03801

Tax Map 0240-0001-0000

Liberty Mutual Insurance Co Attn: Joanne Bragg 175 Berkeley Street Boston, MA 02116

Tax Map 0259-0014-0001

Millennium Borthwick II LLC 155 Borthwick Ave Portsmouth, NH 03801



Resistance Substation Retirement Project Eversource Energy Abutters List Portsmouth, New Hampshire

Tax Map 0259-0015-0000

Northeast Credit Union Attn: Accounting PO Box 1240 Portsmouth, NH 03801

Tax Map 0215-0001-0000

Retrosi Properties LLC 150 Gosling Road Portsmouth, NH 03801

Tax Map 0216-0001-0001

150 Commerce Way LLC 210 Commerce Way Suite 100 Portsmouth, NH 03801

Tax Map 0216-0003-0000

Bromley Portsmouth LLC 57 Dedham Ave Needham, MA 02492

Tax Map 0212-0168-0000, 0212-0167-0000

Atlantic Pointe Condominium 7 Tokanel Road Windham, NH 03087

Tax Map 0213-0007-0000

Melissa Gillis 14 Dunlin Way Portsmouth, NH 03801

Tax Map 0213-0010-0000

Raad Mukhlis 20 Dunlin Way Portsmouth, NH 03801

Tax Map 0218-0041-0000

Dragan Vidacic 8 Dunlin Way Portsmouth, NH 03801

Tax Map 0212-0124-0000

Kenneth Hall 276 Crescent Way Portsmouth, NH 03801

Tax Map 0259-0016-0000

Kennedy Edeltraud Trust of 2017 719 Greenland Road Portsmouth, NH 03801

Tax Map 0215-0009-0000

Kelly Properties Trust PO Box 342 Rye Beach, NH 03871

Tax Map 0216-0001-0002

Commerce Center at Portsmouth 273 Corporate Drive Suite 150 Portsmouth, NH 03801

Tax Map 0212-0121-0000

PHA Housing Development 245 Middle Street Portsmouth, NH 03801

Tax Map 0213-0003-000

Thom Graeme 212 Mayfield Circle Alpharette, GA 30009

Tax Map 0213-0008-0000

Dipentima Family Rev Living Trust 16 Dunlin Way Portsmouth, NH 03801

Tax Map 0217-0002-0000

Spinnaker Point Condo 70 Spinnaker Way Portsmouth, NH 03801

Tax Map 0218-0042-0000

Maass Family Rev Trust 6 Dunlin Way Portsmouth, NH 03801

Tax Map 0212-0125-0000

Evon Cooper 16 Garland Road Lincoln, MA 01773

Tax Map 0240-0002-0001

HCA Health Services of NH Inc. PO Box 680610 Indianapolis, IN 46280

Tax Map 0215-0014-0000

Cole BJ Portfolio II LLC 25 Research Drive Westborough, MA 01581

Tax Map 0216-0001-0009

175 Commerce Road LLC 725 Canton Street Norwood, MA 02062

Tax Map 0212-0123-0000

Lewis Family Trust 2019 595 Las Colindas Road San Rafael, CA 94903

Tax Map 0213-0006-0000

Abdallah Alhamdan 12 Dunlin Way Portsmouth, NH 03801

Tax Map 0213-0009-0000

Nania Family Trust 18 Dunlin Way Portsmouth, NH 03801

Tax Map 0218-0040-0000

Gita Paudel 10 Dunlin Way Portsmouth, NH 03801

Tax Map 0218-0043-0000

Kristina Jette 2 Dunlin Way Portsmouth, NH 03801

Tax Map 0212-0126-0000

Karole Smith Rev Trust 254 Crescent Way Portsmouth, NH 03801



Tax Map 0212-0128-0000

Bruce Teatrowe 226 Crescent Way Portsmouth, NH 03801

Tax Map 0212-0130-0000

Francis Hartford 1810 State Road Eliot, ME 03903

Tax Map 0212-126A-0000

Atlantic Heights LLC 480 Route 101 Bedford, NH 03101

Tax Map 0258-0030-0000

Stamatia Miminas 49 Griffin Road Portsmouth, NH 03801

Tax Map R21-051-000

Bluebird Greenland, LLC 125 Ocean Road Greenland, NH 03840

Tax Map R21-044-000

Target Corporation PO Box 9456 Minneapolis, MN 55440

Resistance Substation Retirement Project Eversource Energy Abutters List Portsmouth, New Hampshire

Tax Map 0212-0128-0001

Lori Santana 224 Crescent Way Portsmouth, NH 03801

Tax Map 0212-0133-0000

Richard Woodhead 187 Porpoise Way Portsmouth, NH 03801

Tax Map 0258-0020-0000

John Madden Jr 700 Greenland Road Portsmouth, NH 03801

Tax Map 0260-0146-0000

Abigail Schilemmer 234 Colonial Drive Portsmouth, NH 03801

Tax Map R21-054-000

TA Operating LLC 24601 Center Ridge Road Suite 200 Westlake, OH 44145

Tax Map R21-044-000

Lowes Home Center Inc 1000 Lowes Blvd Morresville, NC 28117

Tax Map 0212-0129-0000

Keith Hodgdon 220 Crescent Way Portsmouth, NH 03801

Tax Map 0212-0153-0000

Alan Baker 180 Porpoise Way Portsmouth, NH 03801

Tax Map 0258-0021-0000

David Kennard 17 Griffin Road Portsmouth, NH 03801

Tax Map R20-008-000

AG-EIP 150 Ocean Road LLC 245 Park Ave 24th Floor New York, NY 10167

Tax Map R21-017-000

Marilyn Twombly 703 Narrow Leaf Drive Upper Marlborough, MD 20774

Tax Map R21-044-000

Stop & Shop PO Box 6500 Carlisle, PA 17013



Photo Log



Photograph No. 1: Looking north at Wetland GW-1 (PEM1/PSS1/PFO1E.Fg/R2UB) near Structure 94 on the 3171 Line ROW off Ocean Road, Portsmouth, NH.



Photograph No. 2: Looking south at Wetland GW-1 (PEM1/PSS1/PFO1E.Fg/R2UB) near Structure 94 on the 3171 Line ROW off Ocean Road, Greenland, NH.



Photograph No. 3: Looking northeast at Wetland GW-1 (PEM1/PSS1/PFO1E.Fg/R2UB) near Structure 93 on the 3171 Line ROW off Ocean Road, Greenland, NH.



Photograph No. 4: Looking east at Wetland GW-1 (PEM1/PSS1/PFO1E.Fg/R2UB) near Structure 92 on the 3171 Line ROW off Ocean Road, Portsmouth, NH.



Photograph No. 5: Looking southwest at Wetland GW-1 (PEM1/PSS1/PFO1E.Fg/R2UB) near Structure 91 on the 3171 Line ROW off Ocean Road, Portsmouth, NH.



Photograph No. 6: Looking north at Wetland GW-1 (PEM1/PSS1/PFO1E.Fg/R2UB) near Structure 90 on the 3171 Line ROW off Ocean Road, Portsmouth, NH.



Photograph No. 7: Looking east at Wetland GW-1 (PEM1/PSS1/PFO1E.Fg/R2UB) near Structure 89 on the 3171 Line ROW off Ocean Road, Portsmouth, NH.



Photograph No. 8: Looking east at Wetland GW-1 (PEM1/PSS1/PFO1E.Fg/R2UB) near Structure 88 on the 3171 Line ROW off Ocean Road, Portsmouth, NH.



Photograph No. 9: Looking west at Wetland GW-1 (PEM1/PSS1/PFO1E.Fg/R2UB) near Structure 87 on the 3171 Line ROW off Ocean Road, Portsmouth, NH.



Photograph No. 10: Looking north towards Structure 86 on the 3171 Line ROW off Ocean Road, Portsmouth, NH.



Photograph No. 11: Looking east at Structures 85 and 84 on the 3171 Line ROW off NH33, Portsmouth, NH



Photograph No. 12: Looking east at Wetland PW-1 (PEM1/PSS1E.Fg) near Structure 83 on the 3171 Line ROW off NH33, Portsmouth, NH



Photograph No. 13: Looking southwest at Wetland PW-1 (PEM1/PSS1E.Fg) near Structure 82 on the 3171 Line ROW off NH33, Portsmouth, NH



Photograph No. 14: Looking west at Wetland PW-1 (PEM1/PSS1E.Fg) near Structure 81 on the 3171 Line ROW off NH33, Portsmouth, NH



Photograph No. 15: Looking southwest at Wetland PW-1 (PEM1/PSS1E.Fg) near Structure 80 on the 3171 Line ROW off NH33, Portsmouth, NH



Photograph No. 16: Looking northwest at Wetland PW-1 (PEM1/PSS1E.Fg) near Structure 79 on the 3171 Line ROW off NH33, Portsmouth, NH.



Photograph No. 17: Looking west at Wetland PW-1 (PEM1/PSS1E.Fg) near Structures 78 and 77 on the 3171 Line ROW off NH33, Portsmouth, NH.



Photograph No. 18: Looking northeast at Wetland PW-1 (PEM1/PSS1E.Fg) towards Structure 77 to 73 on the 3171 Line ROW off NH33, Portsmouth, NH.



Photograph No. 19: Looking northwest towards Structures 72 and 72.6 on the 3171 Line ROW off NH33, Portsmouth, NH.



Photograph No. 20: Looking southeast at Structures 72.1 to 72.5 on the 3171 Line ROW off Griffin Road, Portsmouth, NH.



Photograph No. 21: Looking northeast at Structure 1 on the T13 Line ROW off Gosling Road, Portsmouth, NH.



Photograph No. 22: Looking south near Wetland PW-2 (PEM1/PSS1E) on the T13 Line ROW off Gosling Road, Portsmouth, NH.



Photograph No. 23: Looking northwest near Wetland PW-3 (PEM1/PSS1E) between Structures 1 and 2 on the T13 Line ROW off Gosling Road, Portsmouth, NH.



Photograph No. 24: Looking southwest at Structure 2 on the T13 Line ROW off Gosling Road, Portsmouth, NH.



Photograph No. 25: Looking northwest at Wetland PW-4 (PEM1/PSS1E) near Structure 2 on the T13 Line ROW off Gosling Road, Portsmouth, NH.



Photograph No. 26: Looking south at Structure 3 and Wetlands PW-5 (PEM1/PSS1E) and PW-6 (PEM1/PSS1E) on the T13 Line ROW off Gosling Road, Portsmouth, NH.



Photograph No. 27: Looking west at Structure 3.5 and Wetland PW-6 (PEM1/PSS1E) on the T13 Line ROW off Gosling Road, Portsmouth, NH.



Photograph No. 28: Looking southeast at Structure 4 on the T13 Line ROW off Gosling Road, Portsmouth, NH.



Photograph No. 29: Looking south at Structure 5 on the T13 Line ROW off Gosling Road, Portsmouth, NH.



Photograph No. 30: Looking east at Structure 6 and Wetland PW-7 (PEM1/PSS1E,H) on the T13 Line ROW off Gosling Road, Portsmouth, NH.



Photograph No. 31: Looking east at Wetlands PW-9 (PEM1/PSS1Ex) and PW-8 (PEM1/PSS1E) near Structure 6 on the T13 Line ROW off Gosling Road, Portsmouth, NH.



Photograph No. 32: Looking east at Structure 7 and Wetlands PW-10 (PSS1Ex) and PW-11 (PSS1/PEM1Ex) on the T13 Line ROW off Gosling Road, Portsmouth, NH.



Photograph No. 33: Looking east at Wetland PW-11 (PSS1/PEM1Ex) between Structures 7 and 8 on the T13 Line ROW off Gosling Road, Portsmouth, NH



Photograph No. 34: Looking northeast at Structure 9 and Wetland PW-12 (PEM1/PSS1E) on the T13 Line ROW off Gosling Road, Portsmouth, NH.



Photograph No. 35: Looking east at Wetland PW-13 (PEM1/PSS1E) and Structure 10 on the T13 Line ROW off Gosling Road, Portsmouth, NH.



Photograph No. 36: Looking southeast at Wetlands PW-13 (PEM1/PSS1E), PW-14 (PSS1/PEM1E), and PW-15 (PEM1E), and at Structures 10 and 11 on the T13 Line ROW off Gosling Road, Portsmouth, NH.



Wetland Function and Value Assessment



File No: 04.0191410.47 Wetland ID: PW-1 PEM1/PSS1E,Fg						Date: 10/19/2023	
		WE	WETLAND FUNCTION – VALUE EVALUATION FORM GZA Personnel: Peter Petkauskos CWS, Tracy Tarr CWS				
	Function/Value	Capability Y N		Rationale (Reference #)	Summary		Principal Yes/No
=	Groundwater Recharge/Discharge	Υ		1, 2, 6		unoff and a seasonally high-water table. by an aquifer (see Aquifer Transmissivity	Υ
	Floodflow Alteration	Υ		3, 4, 5, 6, 7, 8, 9, 18	,,	erland sheet flow. Dense vegetation is	Υ
	Fish and Shellfish Habitat		N	Not Applicable	The wetland is not associated with a habitat.	watercourse or permanently flooded	N
*	Sediment/Toxicant Retention	Υ		1, 2, 4, 5, 8	The wetland contains dense vegetati and retention and accepts runoff from	ion suitable for sediment/toxicant detention n 195 North.	Y
	Nutrient Removal	Υ		2, 3, 5, 6, 7, 8, 9, 10	Dense vegetation and poorly drained water.	d organic soils are present with ponded	Y
→	Production Export	Υ		1, 4, 5, 7, 12	The wetland contains dense vegetatiuse in the wetland.	ns dense vegetation and export is occurring through wildlife	
we	Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are a	ssociated with the wetland.	N
&	Wildlife Habitat	Υ		5, 6, 7, 8, 11, 13, 18, 19, 23	A portion of the wetland is located in Hampshire" (see Wildlife Action Plan		Υ
A	Recreation		N	1, 5	There are no water-based recreation	nal opportunities present.	N
=	Educational/Scientific Value	Υ		5, 6	The wetland is located on City of Poi However, parking suitable for school located under an active distribution li existing rail bed.	rtsmouth conservation land (Great Bog). buses is not present and the wetland is ine adjacent to Interstate 95 and an	N
*	Uniqueness/Heritage	Υ		13, 17, 19		ource Area (PRA) mapped Peatland Habitat d.	N
₹	Visual Quality/Aesthetics		N	2, 8, 12	The wetland does not contain open visurrounded by Interstate 95 and an experience of the state o	water or emergent marsh vistas and is existing rail bed.	N
ES	Endangered Species Habitat	Υ		1, 2	NHB does not have records of rare s NHB memo dated NHB22-3650).	species in the vicinity of this wetland (see	N

Notes: Plants within the herbaceous layer include reed canary grass, broadleaf cattail, jewel weed, cinnamon fern, sensitive fern, reed canary grass, phragmites, and sphagnum moss. Plants within the shrub/sapling layer include meadowsweet, silky dogwood, glossy buckthorn, red maple, and gray birch.



File No: 04.0191410.47 Wetland ID: PW-2 PEM1/PSS1E						Date: 10/19/2023	
		WE	WETLAND FUNCTION – VALUE EVALUATION FORM GZA Personnel: Peter Petkauskos CWS, Tracy Tarr CWS				
	Function/Value	Capability Y N		Rationale (Reference #)	Su	ımmary	Principal Yes/No
=	Groundwater Recharge/Discharge	Υ		4		unoff and a seasonally high-water table. by an aquifer (see Aquifer Transmissivity	N
	Floodflow Alteration	Υ		5, 6, 9	The wetland receives and retains ov present.	erland sheet flow. Dense vegetation is	N
	Fish and Shellfish Habitat		N	Not Applicable	The wetland is not associated with a habitat.	watercourse or permanently flooded	N
*	Sediment/Toxicant Retention	Υ		1, 2	The wetland contains dense vegetat and retention and accepts runoff from	ion suitable for sediment/toxicant detention n Gosling Road.	Υ
	Nutrient Removal	Υ		3, 8, 9	Dense vegetation is present.		N
→	Production Export	Υ		7, 12	The wetland contains dense vegetat use in the wetland.	ion and export is occurring through wildlife	N
way	Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are a	ssociated with the wetland.	N
*	Wildlife Habitat	Y		7, 8	The wetland contains scrub-shrub coits capability.	over in a commercial area. Over size limits	N
//	Recreation		N	5	There are no water-based recreation	nal opportunities present.	N
#	Educational/Scientific Value		N	5	The wetland is located on private pro transmission line.	operty and is located under an active	N
*	Uniqueness/Heritage		N	17	The wetland is not known to contain designated as a prime wetland.	exemplary communities and is not	N
₹	Visual Quality/Aesthetics		N	8	The wetland does not contain open v	water or emergent marsh vistas.	N
ES	Endangered Species Habitat		N	Not Applicable	NHB does not have records of rare s NHB memo dated NHB22-3650).	species in the vicinity of this wetland (see	N



File No: 04.0191410.47 Wetland ID: PW-3 PEM1/PSS1E			Date: 10/19/2023				
		WE	WETLAND FUNCTION - VALUE EVALUATION FORM GZA Personnel: Peter Petkauskos CWS, Tracy Tarr CWS				
	Function/Value	Capability Y N		Rationale (Reference #)	Su	ımmary	Principal Yes/No
=	Groundwater Recharge/Discharge	Υ		4		unoff and a seasonally high-water table. by an aquifer (see Aquifer Transmissivity	N
	Floodflow Alteration	Υ		5, 6, 9	The wetland receives and retains ov present.	erland sheet flow. Dense vegetation is	N
	Fish and Shellfish Habitat		N	Not Applicable	The wetland is not associated with a habitat.	watercourse or permanently flooded	N
*	Sediment/Toxicant Retention	Υ		1, 2	The wetland contains dense vegetat and retention.	ion suitable for sediment/toxicant detention	Υ
	Nutrient Removal	Υ		3, 8, 9	Dense vegetation is present.		N
→	Production Export	Υ		7, 12	The wetland contains dense vegetat use in the wetland.	ion and export is occurring through wildlife	N
wy	Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are a	ssociated with the wetland.	N
2	Wildlife Habitat	Y		7, 8	The wetland contains scrub-shrub coits capability.	over in a commercial area. Over size limits	N
//	Recreation		N	5	There are no water-based recreation	nal opportunities present.	N
#	Educational/Scientific Value		N	5	The wetland is located on private pro transmission line.	operty and is located under an active	N
*	Uniqueness/Heritage		N	17	The wetland is not known to contain designated as a prime wetland.	exemplary communities and is not	N
C	Visual Quality/Aesthetics		N	8	The wetland does not contain open v	water or emergent marsh vistas.	N
ES	Endangered Species Habitat		N	Not Applicable	NHB does not have records of rare s NHB memo dated NHB22-3650).	species in the vicinity of this wetland (see	N



File No: 04.0191410.47						Date: 10/19/2023		
	Wetland ID: PW-4 PEM1/PSS1E		GZA Personnel: Peter Petkauskos CWS, Tracy Tarr CWS					
	Function/Value	unction/Value Capability		Rationale (Reference #)	Su	ımmary	Principal Yes/No	
	Groundwater Recharge/Discharge	Υ		4	Wetland hydrology is supported by ri The wetland is not directly underlain Overlay).	unoff and a seasonally high-water table. by an aquifer (see Aquifer Transmissivity	N	
	Floodflow Alteration	Υ		5, 6, 9	The wetland receives and retains over present.	erland sheet flow. Dense vegetation is	N	
	Fish and Shellfish Habitat		N	Not Applicable	The wetland is not associated with a habitat.	watercourse or permanently flooded	N	
*	Sediment/Toxicant Retention	Υ		1, 2	The wetland contains dense vegetati and retention.	on suitable for sediment/toxicant detention	Υ	
	Nutrient Removal	Y		3, 8, 9	Dense vegetation is present.		N	
→	Production Export	Y		7, 12	The wetland contains dense vegetatiuse in the wetland.	on and export is occurring through wildlife	N	
we	Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are a	ssociated with the wetland.	N	
2	Wildlife Habitat	Υ		7, 8	The wetland contains scrub-shrub co	over in a commercial area.	N	
/	Recreation		N	5	There are no water-based recreation	al opportunities present.	N	
#	Educational/Scientific Value		N	5	The wetland is located on private pro transmission line.	perty and is located under an active	N	
*	Uniqueness/Heritage		N	17	The wetland is not known to contain designated as a prime wetland.	exemplary communities and is not	N	
, C	Visual Quality/Aesthetics		N	8	The wetland does not contain open v	vater or emergent marsh vistas.	N	
ES	Endangered Species Habitat		N	Not Applicable	NHB does not have records of rare s NHB memo dated NHB22-3650).	pecies in the vicinity of this wetland (see	N	



File No: 04.0191410.47						Date: 10/19/2023		
	Wetland ID: PW-4 PEM1/PSS1E		GZA Personnel: Peter Petkauskos CWS, Tracy Tarr CWS					
	Function/Value	unction/Value Capability		Rationale (Reference #)	Su	ımmary	Principal Yes/No	
	Groundwater Recharge/Discharge	Υ		4	Wetland hydrology is supported by ri The wetland is not directly underlain Overlay).	unoff and a seasonally high-water table. by an aquifer (see Aquifer Transmissivity	N	
	Floodflow Alteration	Υ		5, 6, 9	The wetland receives and retains over present.	erland sheet flow. Dense vegetation is	N	
	Fish and Shellfish Habitat		N	Not Applicable	The wetland is not associated with a habitat.	watercourse or permanently flooded	N	
*	Sediment/Toxicant Retention	Υ		1, 2	The wetland contains dense vegetati and retention.	on suitable for sediment/toxicant detention	Υ	
	Nutrient Removal	Y		3, 8, 9	Dense vegetation is present.		N	
→	Production Export	Y		7, 12	The wetland contains dense vegetatiuse in the wetland.	on and export is occurring through wildlife	N	
we	Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are a	ssociated with the wetland.	N	
2	Wildlife Habitat	Υ		7, 8	The wetland contains scrub-shrub co	over in a commercial area.	N	
/	Recreation		N	5	There are no water-based recreation	al opportunities present.	N	
#	Educational/Scientific Value		N	5	The wetland is located on private pro transmission line.	perty and is located under an active	N	
*	Uniqueness/Heritage		N	17	The wetland is not known to contain designated as a prime wetland.	exemplary communities and is not	N	
, C	Visual Quality/Aesthetics		N	8	The wetland does not contain open v	vater or emergent marsh vistas.	N	
ES	Endangered Species Habitat		N	Not Applicable	NHB does not have records of rare s NHB memo dated NHB22-3650).	pecies in the vicinity of this wetland (see	N	



File No: 04.0191410.47 Wetland ID: PW-6 PEM1/PSS1E						Date: 10/19/2023	
		WE	VETLAND FUNCTION — VALUE EVALUATION FORM GZA Personnel: Peter Petkauskos CWS, Tracy Tarr CWS				
	Function/Value	Capability Y N		Rationale (Reference #)	Summary		Principal Yes/No
	Groundwater Recharge/Discharge	Υ		4	Wetland hydrology is supported by ri The wetland is not directly underlain Overlay).	unoff and a seasonally high-water table. by an aquifer (see Aquifer Transmissivity	N
	Floodflow Alteration	Υ		5, 6, 7, 9		erland sheet flow. Dense vegetation is ent.	N
	Fish and Shellfish Habitat		N	Not Applicable	The wetland is not associated with a habitat.	watercourse or permanently flooded	N
*	Sediment/Toxicant Retention	Υ		1, 2	The wetland contains dense vegetate and retention.	ion suitable for sediment/toxicant detention	Υ
	Nutrient Removal	Υ		3, 8, 9	Dense vegetation is present.		N
→	Production Export	Υ		7, 12	The wetland contains dense vegetatiuse in the wetland.	ion and export is occurring through wildlife	N
we	Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are a	ssociated with the wetland.	N
2	Wildlife Habitat	Υ		7, 8	The wetland contains scrub-shrub co	over in a commercial area.	N
/	Recreation		N	5	There are no water-based recreation	al opportunities present.	N
#	Educational/Scientific Value		N	5	The wetland is located on private pro transmission line.	perty and is located under an active	N
*	Uniqueness/Heritage		N	17	The wetland is not known to contain designated as a prime wetland.	exemplary communities and is not	N
₹	Visual Quality/Aesthetics		N	8	The wetland does not contain open v	water or emergent marsh vistas.	N
ES	Endangered Species Habitat		N	Not Applicable	NHB does not have records of rare s NHB memo dated NHB22-3650).	species in the vicinity of this wetland (see	N



File No: 04.0191410.47						Date: 10/19/2023		
	Wetland ID: PW-7 PEM1/PSS1E,H		WETLAND FUNCTION – VALUE EVALUATION FORM GZA Personnel: Peter Petkauskos CWS, Tracy Tarr CWS					
	Function/Value	Cap Y	ability N	Rationale (Reference #)	Su	ımmary	Principal Yes/No	
=	Groundwater Recharge/Discharge	Υ		4	Wetland hydrology is supported by ri The wetland is not directly underlain Overlay).	unoff and a seasonally high-water table. by an aquifer (see Aquifer Transmissivity	N	
	Floodflow Alteration	Υ		5, 6, 7, 9		erland sheet flow. Dense vegetation is ent.	N	
	Fish and Shellfish Habitat		N	Not Applicable	The wetland is not associated with a habitat.	watercourse or permanently flooded	N	
*	Sediment/Toxicant Retention	Υ		1, 2	The wetland contains dense vegetat and retention.	ion suitable for sediment/toxicant detention	Υ	
	Nutrient Removal	Y		3, 8, 9	Dense vegetation is present.		N	
→	Production Export	Y		7, 12	The wetland contains dense vegetat use in the wetland.	ion and export is occurring through wildlife	N	
mer.	Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are a	associated with the wetland.	N	
&	Wildlife Habitat	Y		7, 8, 18	The wetland contains a potential ver commercial area.	nal pool and scrub-shrub cover in a	Υ	
/	Recreation		N	5	There are no water-based recreation	nal opportunities present.	N	
#	Educational/Scientific Value		N	5	The wetland is located on private pro transmission line.	pperty and is located under an active	N	
*	Uniqueness/Heritage		N	17	The wetland is not known to contain designated as a prime wetland.	exemplary communities and is not	N	
, C	Visual Quality/Aesthetics		N	8	The wetland does not contain open v	water or emergent marsh vistas.	N	
ES	Endangered Species Habitat		N	Not Applicable	NHB does not have records of rare s NHB memo dated NHB22-3650).	species in the vicinity of this wetland (see	N	



File No: 04.0191410.47 Wetland ID: PW-8 PEM1/PSS1E						Date: 10/19/2023	
		WETLAND FUNCTION – VALUE EVALUATION FORM GZA Personnel: Peter Petkauskos CWS, Tracy Tarr CWS					
	Function/Value		ability Rationale N (Reference #)		Su	Summary	
<u>_</u>	Groundwater Recharge/Discharge	Υ		4	Wetland hydrology is supported by re The wetland is not directly underlain Overlay).	unoff and a seasonally high-water table. by an aquifer (see Aquifer Transmissivity	N
	Floodflow Alteration	Υ		5, 6, 7, 9		erland sheet flow. Dense vegetation is	N
	Fish and Shellfish Habitat		N	Not Applicable	The wetland is not associated with a habitat.	watercourse or permanently flooded	N
*	Sediment/Toxicant Retention	Υ		1, 2	The wetland contains dense vegetati and retention. The wetland accepts s	ion suitable for sediment/toxicant detention stormwater from surrounding roads.	Υ
	Nutrient Removal	Υ		3, 8, 9	Dense vegetation is present.		N
→	Production Export	Υ		7, 12	The wetland contains dense vegetatiuse in the wetland.	ion and export is occurring through wildlife	N
we	Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are a	ssociated with the wetland.	N
~	Wildlife Habitat	Υ		7, 8	The wetland contains scrub-shrub co	over in a commercial area.	N
A	Recreation		N	5	There are no water-based recreation	al opportunities present.	N
#	Educational/Scientific Value		N	5	The wetland is located on private pro transmission line.	perty and is located under an active	N
*	Uniqueness/Heritage		N	17	The wetland is not known to contain designated as a prime wetland.	exemplary communities and is not	N
₹	Visual Quality/Aesthetics		N	8	The wetland does not contain open v	water or emergent marsh vistas.	N
ES	Endangered Species Habitat		N	Not Applicable	NHB does not have records of rare s NHB memo dated NHB22-3650).	species in the vicinity of this wetland (see	N



File No: 04.0191410.47 Wetland ID: PW-9 PEM1/PSS1Ex						Date: 10/19/2023	
		WETLAND FUNCTION – VALUE EVALUATION FORM GZA Personnel: Peter Petkauskos CWS, Tracy Tarr CWS					
	Function/Value		ability N			Summary	
=	Groundwater Recharge/Discharge	Υ		4	Wetland hydrology is supported by runoff and a seasonally high-water table. The wetland is not directly underlain by an aquifer (see Aquifer Transmissivity Overlay).	N	
	Floodflow Alteration	Υ		5, 6, 7, 9	The wetland receives and retains ov present.	erland sheet flow. Dense vegetation is	N
	Fish and Shellfish Habitat		N	Not Applicable	The wetland is not associated with a habitat.	watercourse or permanently flooded	N
*	Sediment/Toxicant Retention	Υ		1, 2	The wetland contains dense vegetat and retention. The wetland accepts s	ion suitable for sediment/toxicant detention stormwater from surrounding roads.	Y
	Nutrient Removal	Υ		3, 8, 9	Emergent and scrub shrub cover is p	present.	N
→	Production Export	Υ		7, 12	The wetland contains dense vegetat	ion.	N
we	Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are a	associated with the wetland.	N
~	Wildlife Habitat	Υ		7, 8	The wetland contains scrub-shrub co	over in a commercial area.	N
A	Recreation		N	5	There are no water-based recreation	nal opportunities present.	N
#	Educational/Scientific Value		N	5	The wetland is located on private pro transmission line.	operty and is located under an active	N
*	Uniqueness/Heritage		N	17	The wetland is not known to contain designated as a prime wetland.	exemplary communities and is not	N
₹© > ,	Visual Quality/Aesthetics		N	8	The wetland does not contain open v	water or emergent marsh vistas.	N
ES	Endangered Species Habitat		N	Not Applicable	NHB does not have records of rare s NHB memo dated NHB22-3650).	species in the vicinity of this wetland (see	N



File No: 04.0191410.47 Wetland ID: PW-10 PSS1Ex						Date: 10/19/2023			
		WE	TLAN	AND FUNCTION – VALUE EVALUATION FORM GZA Personnel: Peter Petkauskos, Tracy Tarr					
	Function/Value		Function/Value		ability N	Rationale (Reference #)	Su	Summary	
	Groundwater Recharge/Discharge	Υ		4	Wetland hydrology is supported by ri The wetland is not directly underlain Overlay).	unoff and a seasonally high-water table. by an aquifer (see Aquifer Transmissivity	N		
	Floodflow Alteration	Υ		5, 6, 7, 9	The wetland receives and retains ov present.	erland sheet flow. Dense vegetation is	N		
	Fish and Shellfish Habitat		N	Not Applicable	The wetland is not associated with a habitat.	watercourse or permanently flooded	N		
*	Sediment/Toxicant Retention	Υ		1, 2	The wetland contains dense vegetat and retention. The wetland accepts s	ion suitable for sediment/toxicant detention stormwater from surrounding roads.	Υ		
	Nutrient Removal	Y		3, 8, 9	Scrub shrub cover is present.		N		
→	Production Export	Υ		7, 12	The wetland contains dense vegetat	ion.	N		
wy	Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are a	associated with the wetland.	N		
℃	Wildlife Habitat	Υ		7, 8	The wetland contains scrub-shrub co	over in a commercial area.	N		
A	Recreation		N	5	There are no water-based recreation	nal opportunities present.	N		
#	Educational/Scientific Value		N	5	The wetland is located on private pro transmission line.	operty and is located under an active	N		
*	Uniqueness/Heritage		N	17	The wetland is not known to contain designated as a prime wetland.	exemplary communities and is not	N		
₹	Visual Quality/Aesthetics		N	8	The wetland does not contain open v	water or emergent marsh vistas.	N		
ES	Endangered Species Habitat		N	Not Applicable	NHB does not have records of rare s NHB memo dated NHB22-3650).	species in the vicinity of this wetland (see	N		



File No: 04.0191410.47		Date: 10/19/2023						
	Wetland ID: PW-11 PSS1/PEM1Ex		WETLAND FUNCTION – VALUE EVALUATION FORM GZA Personnel: Peter Petkauskos CWS, Tracy Tarr CWS					
	Function/Value		Capability Rationale Y N (Reference #)		Summary		Principal Yes/No	
	Groundwater Recharge/Discharge	Υ		4	Wetland hydrology is supported by ri The wetland is not directly underlain Overlay).	unoff and a seasonally high-water table. by an aquifer (see Aquifer Transmissivity	N	
	Floodflow Alteration	Υ		5, 6, 7, 9	The wetland receives and retains over present. Ponded water is present in a	erland sheet flow. Dense vegetation is an existing stormwater basin.	N	
	Fish and Shellfish Habitat		N	Not Applicable	The wetland is not associated with a habitat.	watercourse or permanently flooded	N	
*	Sediment/Toxicant Retention	Υ		1, 2		ion suitable for sediment/toxicant detention stormwater from surrounding roads and	Υ	
	Nutrient Removal	Υ		3, 8, 9	Scrub shrub and emergent cover is p	present.	N	
→	Production Export	Υ		7, 12	The wetland contains dense vegetation	ion.	N	
w	Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are a	ssociated with the wetland.	N	
2	Wildlife Habitat	Υ		7, 8	The wetland contains scrub-shrub co	over in a commercial area.	N	
/	Recreation		N	5	There are no water-based recreation	al opportunities present.	N	
#	Educational/Scientific Value		N	5	The wetland is located on private pro transmission line.	perty and is located under an active	N	
*	Uniqueness/Heritage		N	17	The wetland is not known to contain designated as a prime wetland.	exemplary communities and is not	N	
₹	Visual Quality/Aesthetics		N	8	The wetland does not contain open v	water or emergent marsh vistas.	N	
ES	Endangered Species Habitat		N	Not Applicable	NHB does not have records of rare s NHB memo dated NHB22-3650).	species in the vicinity of this wetland (see	N	



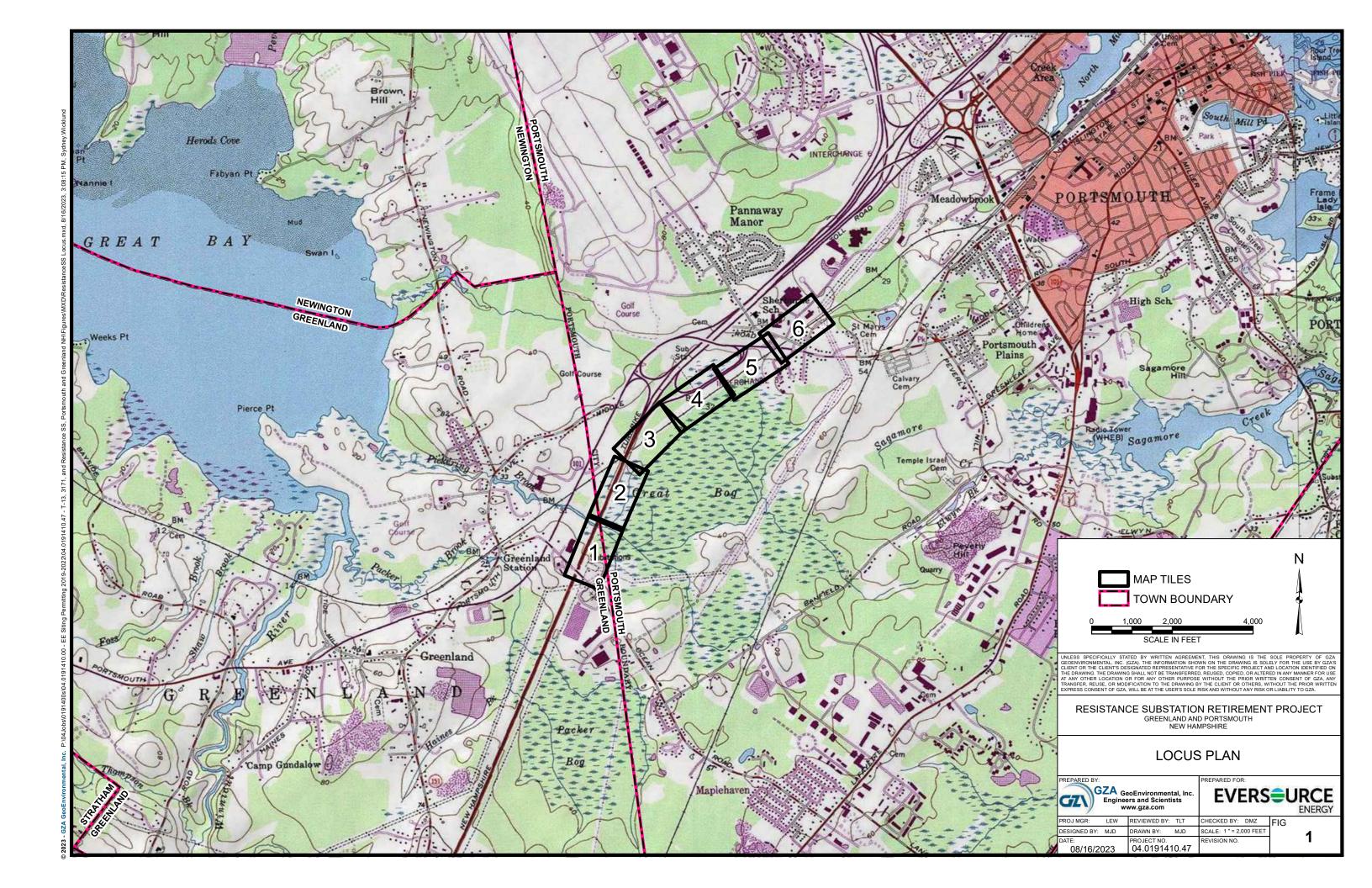
File No: 04.0191410.47 Wetland ID: PW-12 and PW-13 PEM1/PSS1E						Date: 10/19/2023	
		WE	WETLAND FUNCTION – VALUE EVALUATION FORM GZA Personnel: Peter Petkauskos CWS, Tracy Tarr CWS				
	Function/Value		ability N	Rationale (Reference #)		ımmary	Principal Yes/No
	Groundwater Recharge/Discharge	Υ		4	Wetland hydrology is supported by ri The wetland is not directly underlain Overlay).	unoff and a seasonally high-water table. by an aquifer (see Aquifer Transmissivity	N
	Floodflow Alteration	Υ		5, 6, 7, 9	The wetland receives and retains ov present.	erland sheet flow. Dense vegetation is	N
	Fish and Shellfish Habitat		N	Not Applicable	The wetland is not associated with a habitat.	watercourse or permanently flooded	N
*	Sediment/Toxicant Retention	Υ		1, 2	The wetland contains dense vegetat and retention. The wetland accepts s	ion suitable for sediment/toxicant detention stormwater from surrounding roads.	Υ
	Nutrient Removal	Υ		3, 8, 9	Scrub shrub and emergent cover is p	present.	N
→	Production Export	Υ		7, 12	The wetland contains dense vegetat	ion.	N
w	Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are a	associated with the wetland.	N
~	Wildlife Habitat	Υ		7, 8	The wetland contains scrub-shrub co	over in a commercial area.	N
/	Recreation		N	5	There are no water-based recreation	nal opportunities present.	N
=	Educational/Scientific Value		N	5	The wetland is located on private pro transmission line.	operty and is located under an active	N
*	Uniqueness/Heritage		N	17	The wetland is not known to contain designated as a prime wetland.	exemplary communities and is not	N
₹© > ,	Visual Quality/Aesthetics		N	8	The wetland does not contain open v	water or emergent marsh vistas.	N
ES	Endangered Species Habitat		N	Not Applicable	NHB does not have records of rare s NHB memo dated NHB22-3650).	species in the vicinity of this wetland (see	N



File No: 04.0191410.47 Wetland ID: PW-12 and PW-13 PSS1/PEM1E		Date: 10/19/2023					
		WE	WETLAND FUNCTION – VALUE EVALUATION FORM GZA Personnel: Peter Petkauskos CWS, Tracy Tarr CWS				
	Function/Value		ability N	Rationale (Reference #)	Su	Summary	
	Groundwater Recharge/Discharge	Υ		4	Wetland hydrology is supported by ri The wetland is not directly underlain Overlay).	unoff and a seasonally high-water table. by an aquifer (see Aquifer Transmissivity	N
	Floodflow Alteration	Υ		5, 6, 7, 9	The wetland receives and retains over present.	erland sheet flow. Dense vegetation is	N
	Fish and Shellfish Habitat		N	Not Applicable	The wetland is not associated with a habitat.	watercourse or permanently flooded	N
*	Sediment/Toxicant Retention	Υ		1, 2	The wetland contains dense vegetati and retention. The wetland accepts s	on suitable for sediment/toxicant detention stormwater from surrounding roads.	Υ
	Nutrient Removal	Υ		3, 8, 9	Scrub shrub and emergent cover is p	present.	N
→	Production Export	Υ		7, 12	The wetland contains dense vegetation	on.	N
w	Sediment/Shoreline Stabilization		N	Not Applicable	No streams or shoreline edges are a	ssociated with the wetland.	N
~	Wildlife Habitat	Υ		7, 8	The wetland contains scrub-shrub co	over in a commercial area.	N
	Recreation		N	5	There are no water-based recreation	al opportunities present.	N
#	Educational/Scientific Value		N	5	The wetland is located on private pro transmission line.	perty and is located under an active	N
*	Uniqueness/Heritage		N	17	The wetland is not known to contain designated as a prime wetland.	exemplary communities and is not	N
· <	Visual Quality/Aesthetics		N	8	The wetland does not contain open v	vater or emergent marsh vistas.	N
ES	Endangered Species Habitat		N	Not Applicable	NHB does not have records of rare s NHB memo dated NHB22-3650).	pecies in the vicinity of this wetland (see	N



Figure 1 – Locus Plan



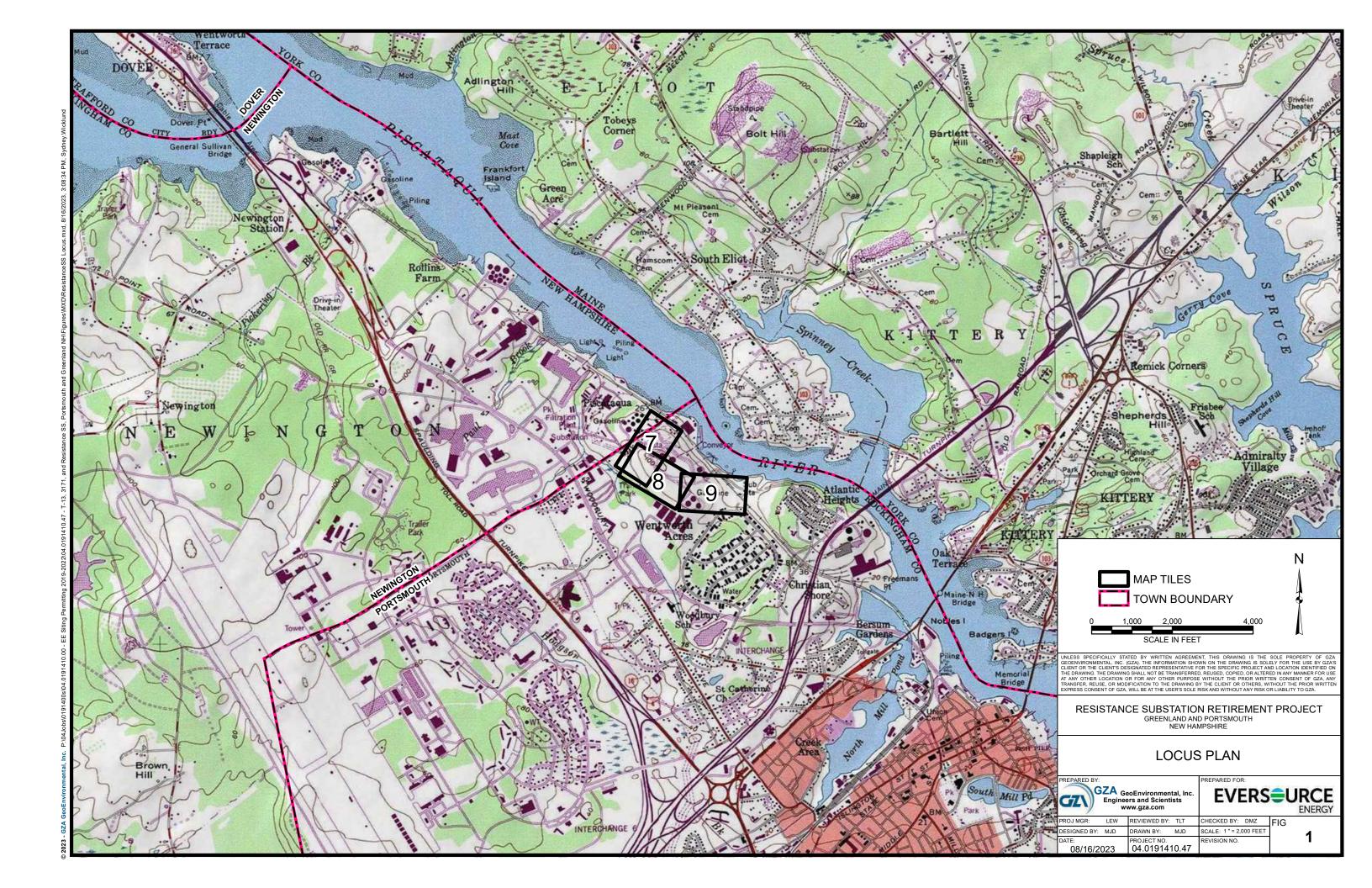
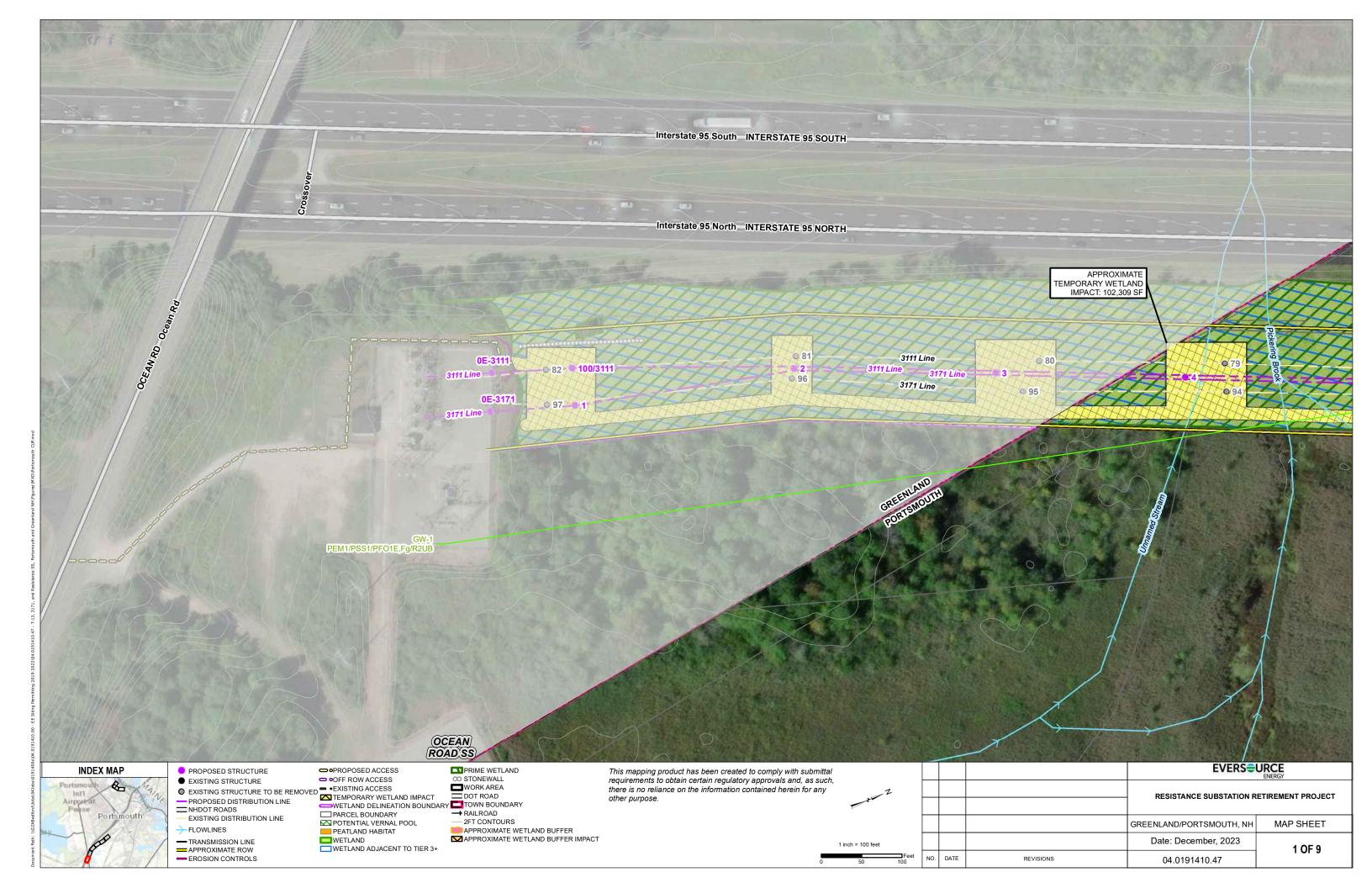
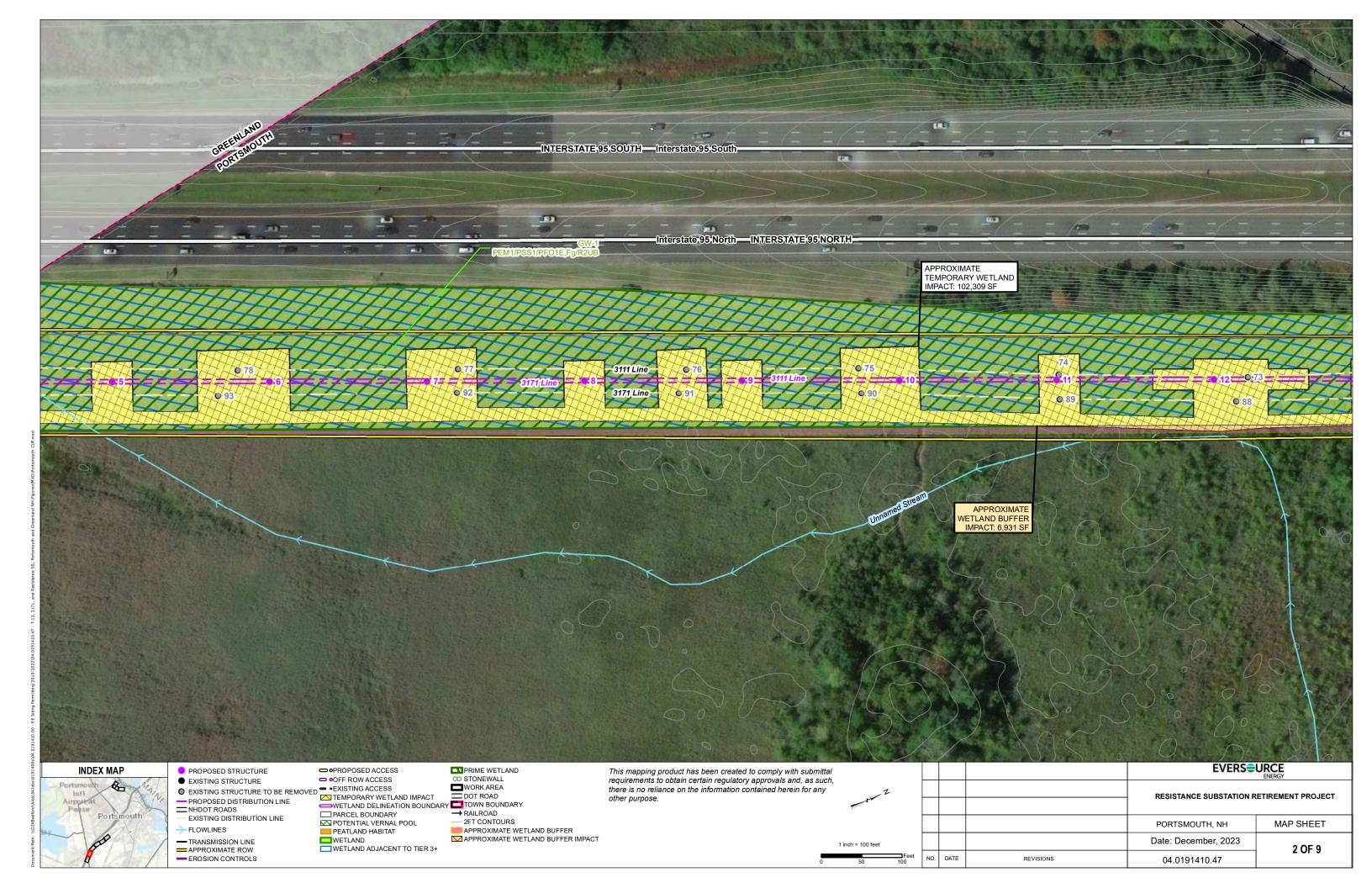
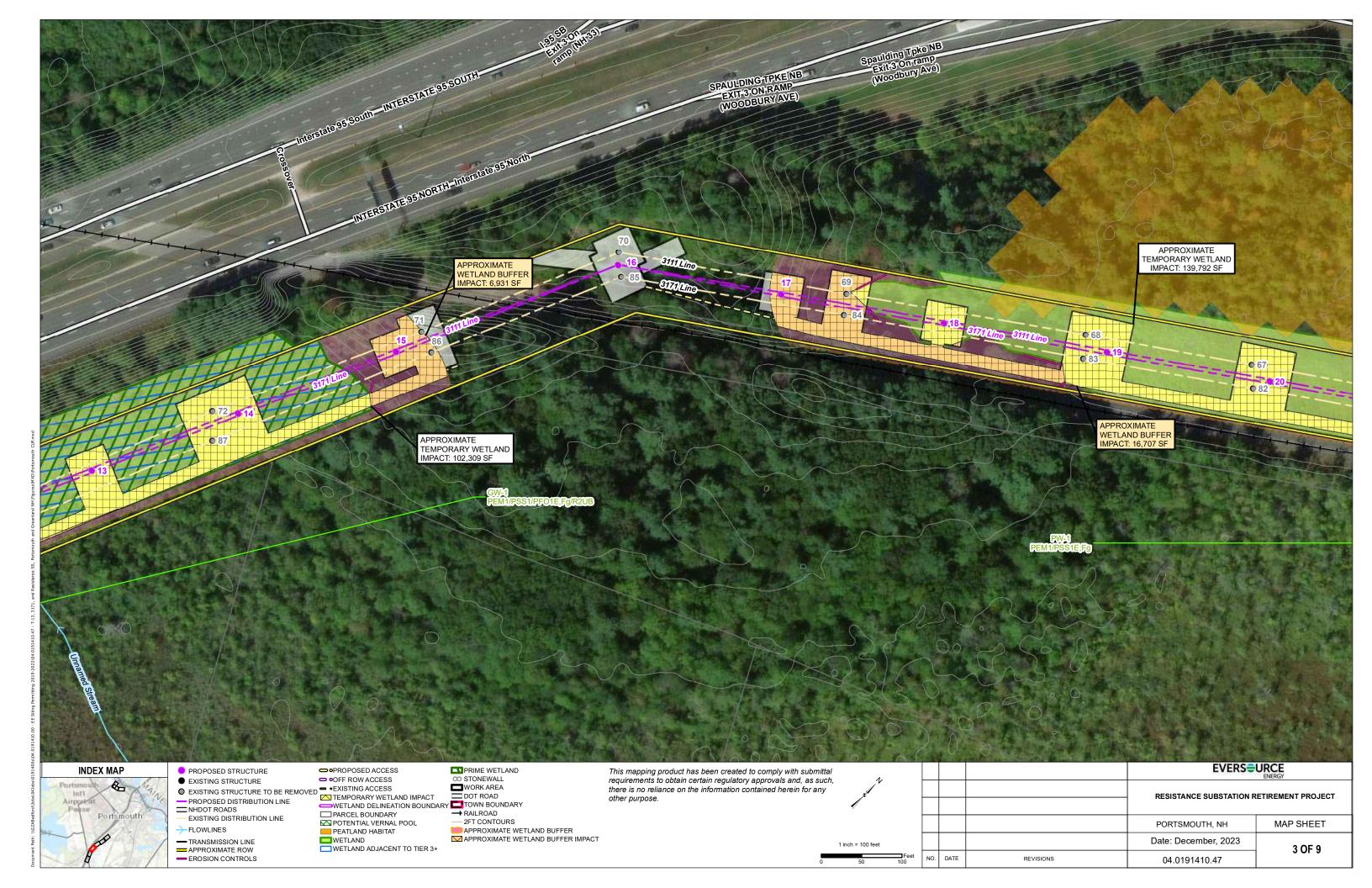


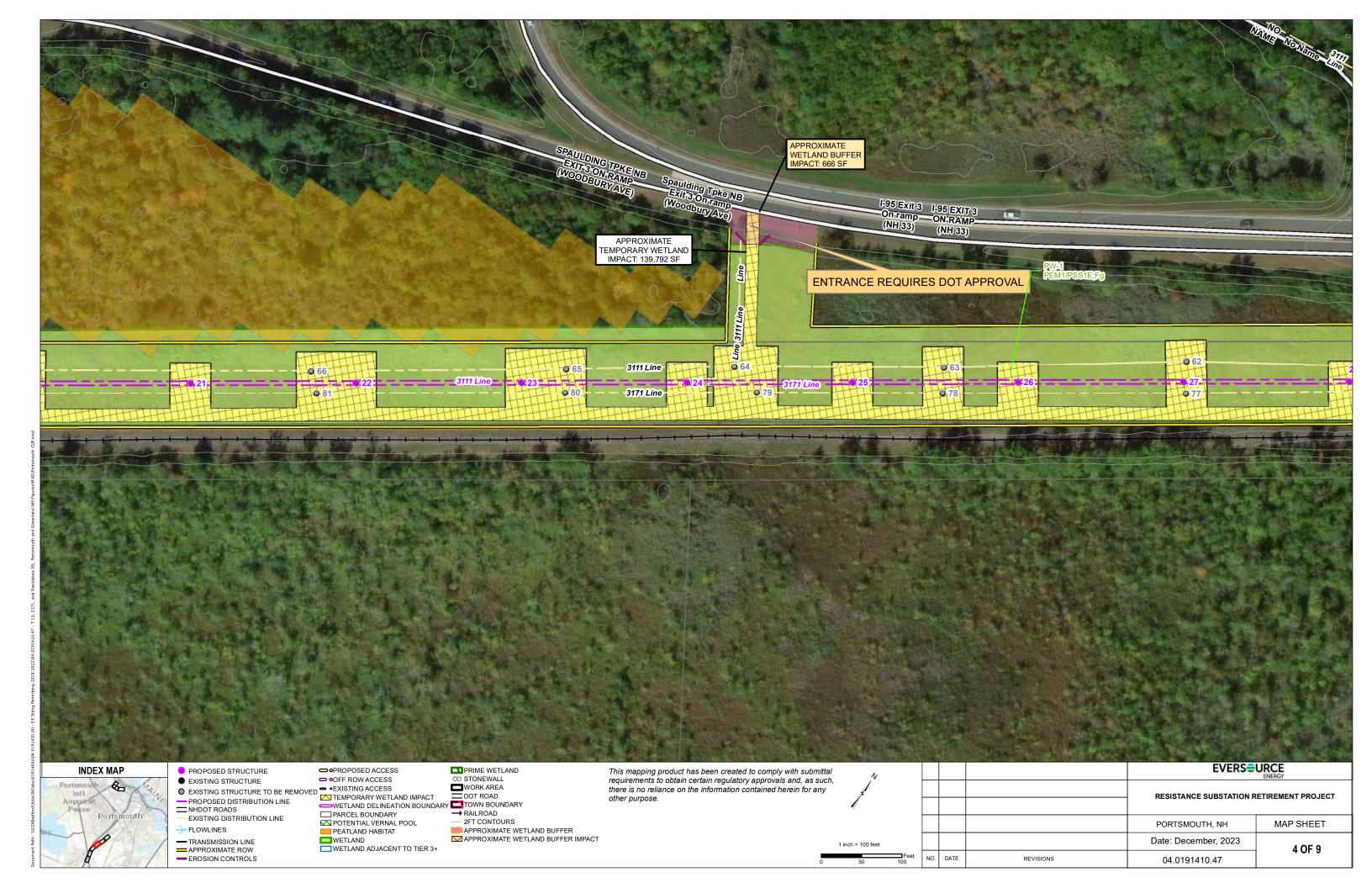


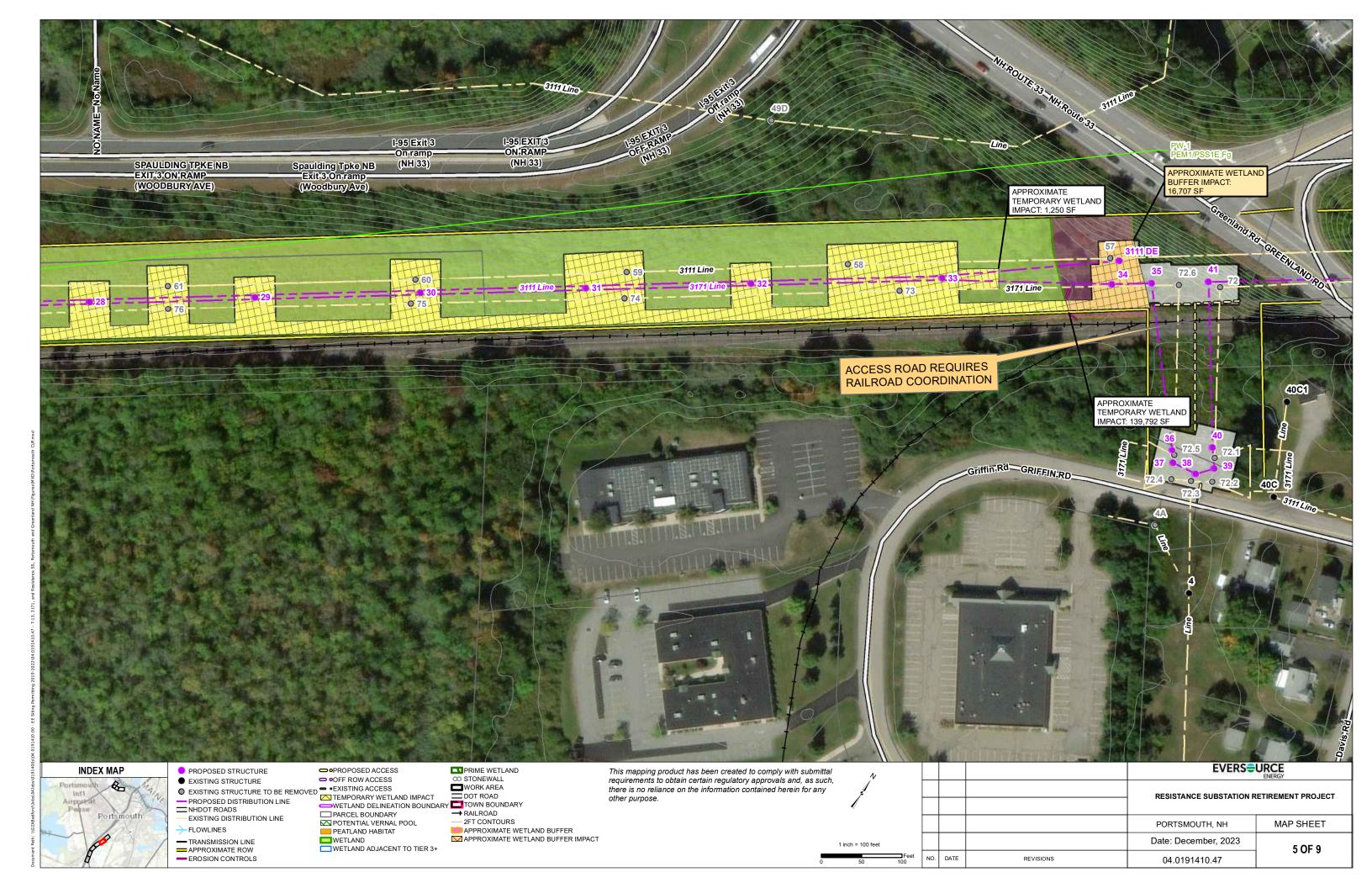
Figure 2 – Access and Permitting Plans

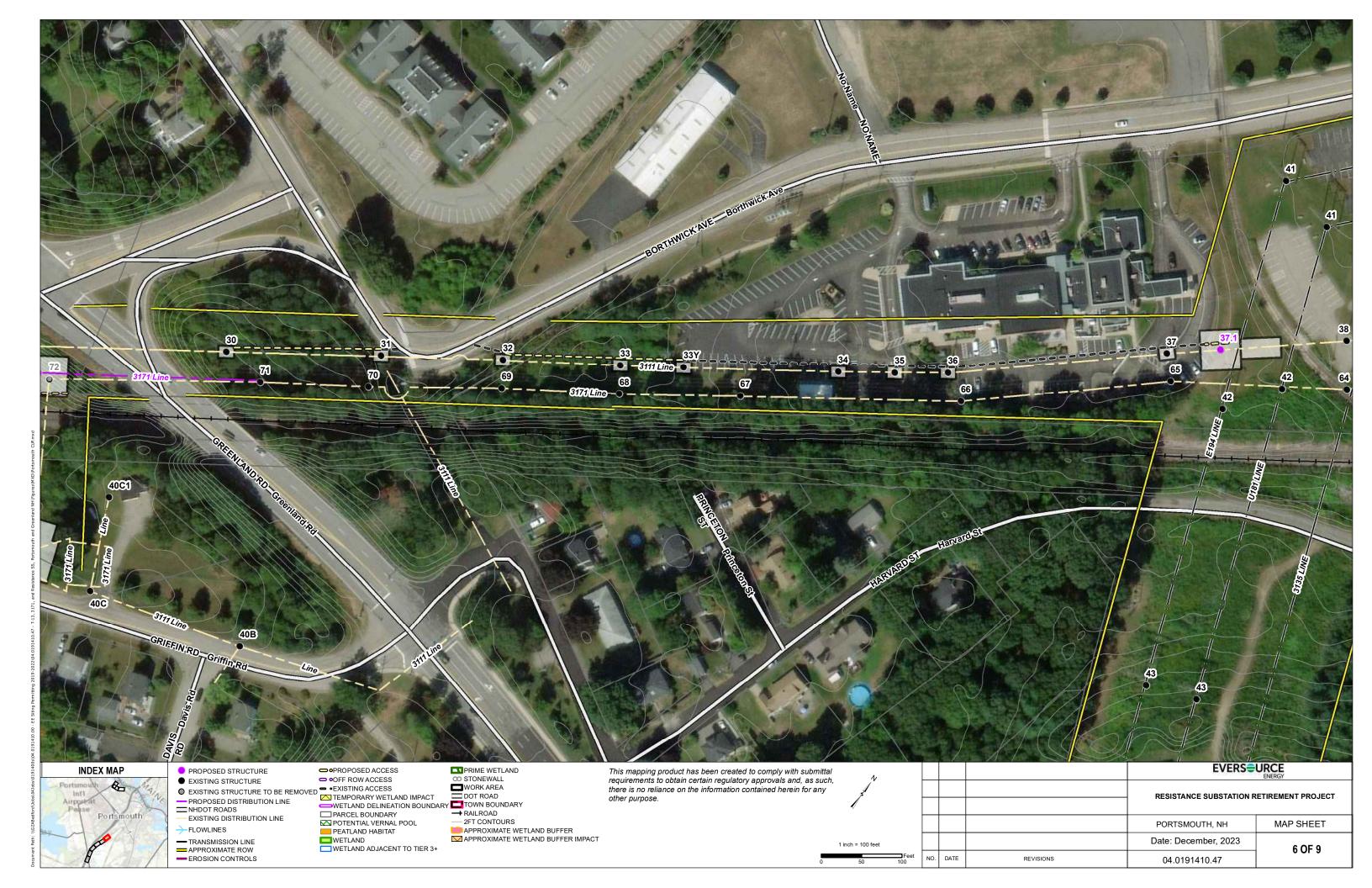


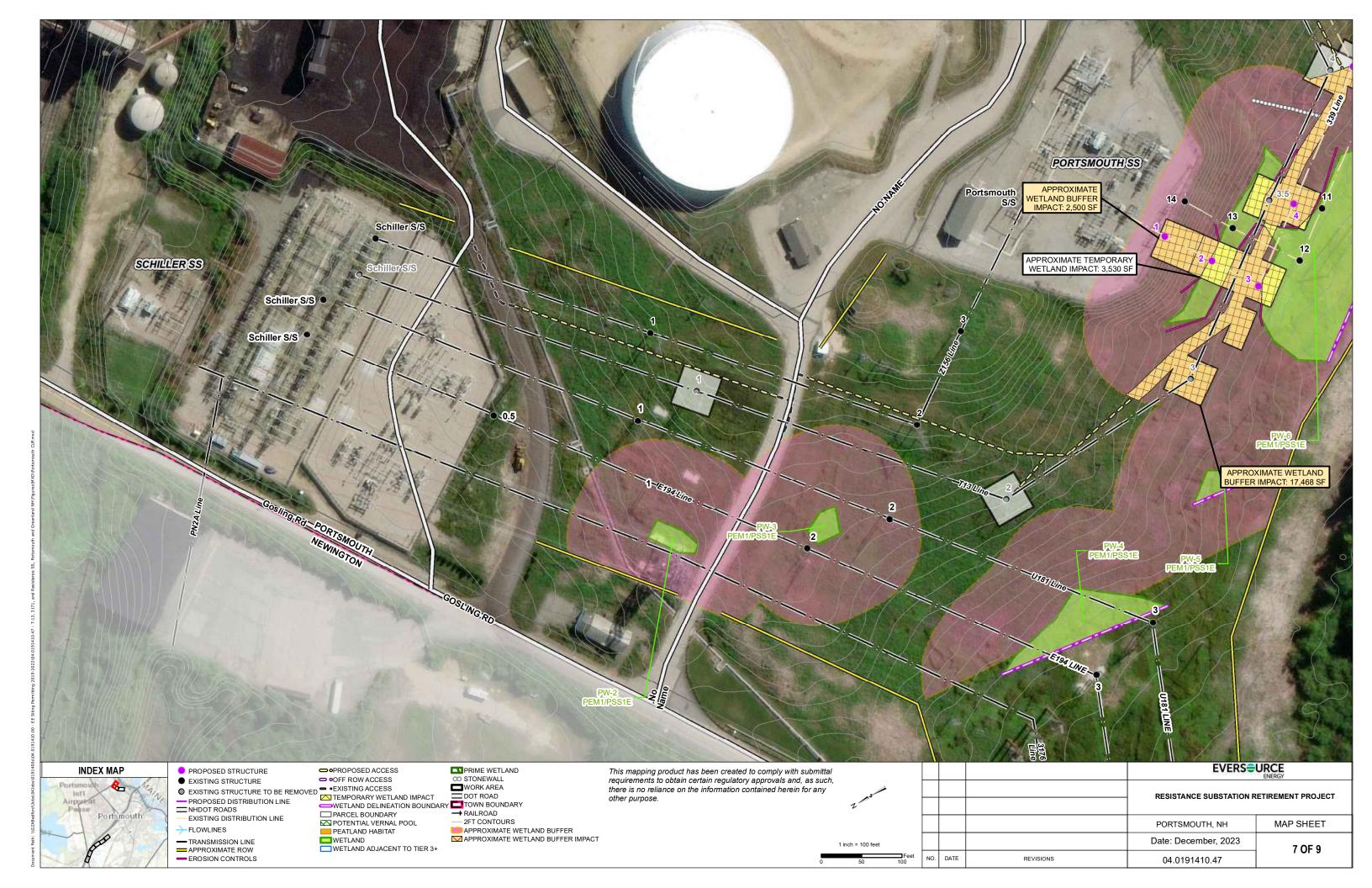


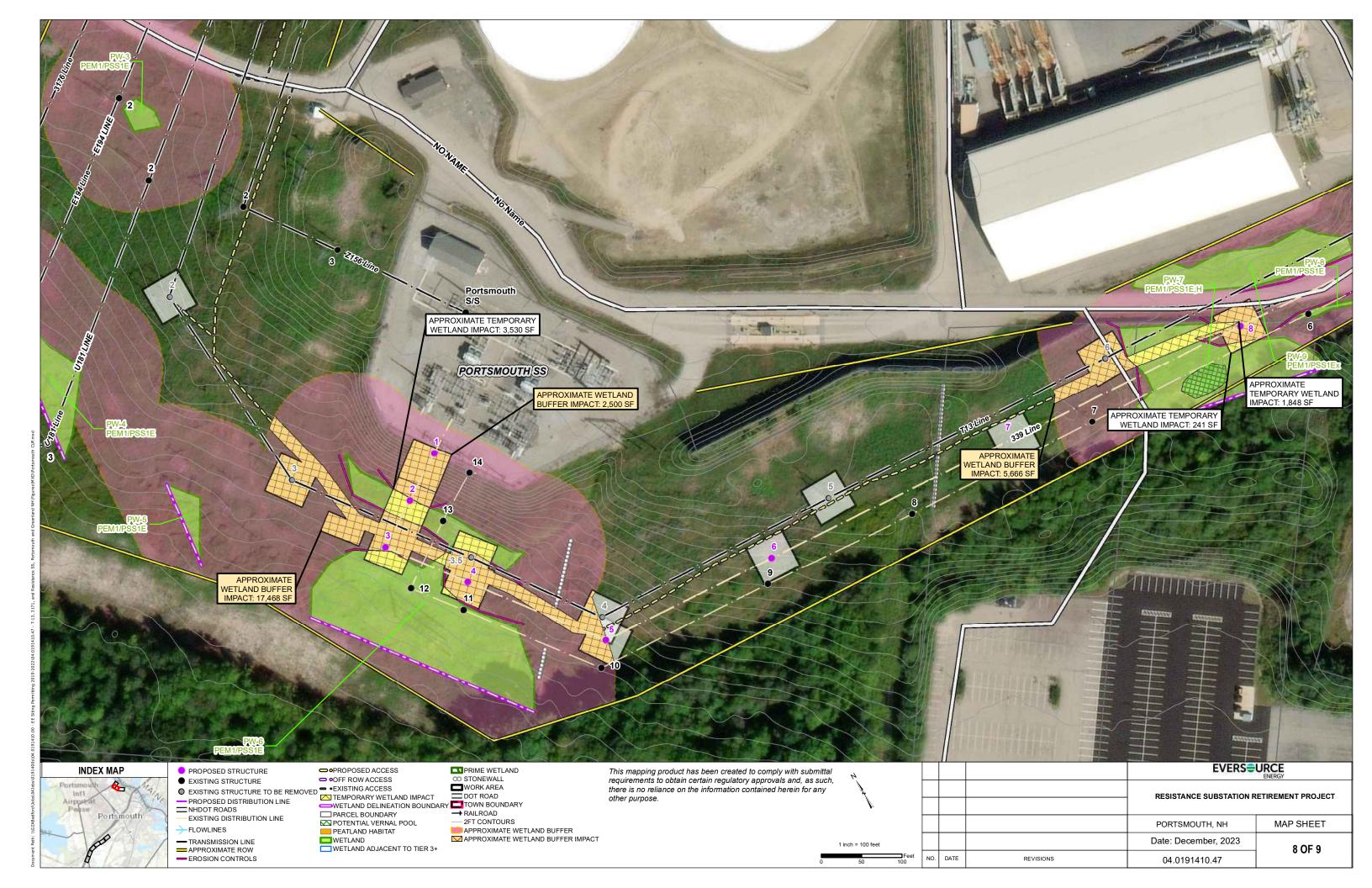


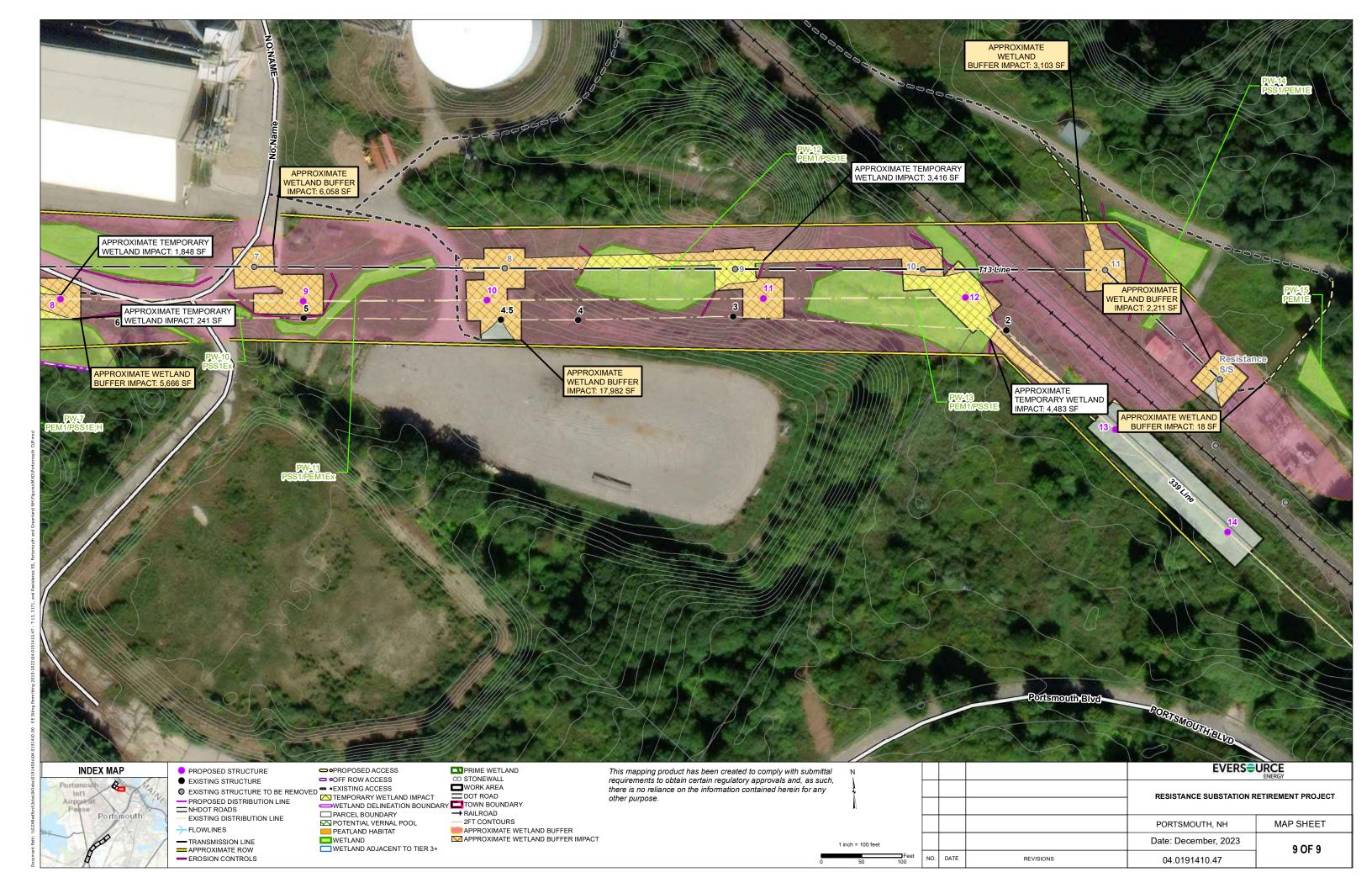














Application Fee