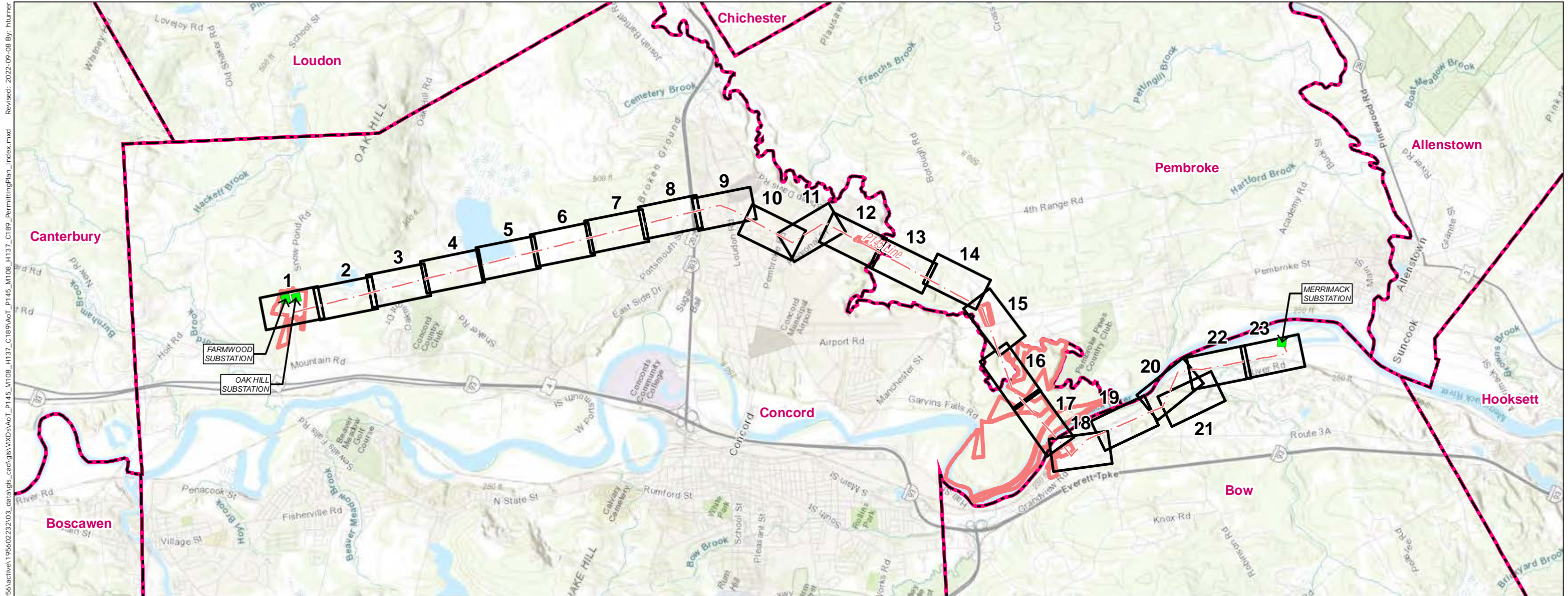


P145 Rebuild and H137/M108/C189 Structure Replacement

Concord, Pembroke, Bow, NH
Alteration of Terrain Permitting Plans

Date: September 08, 2022

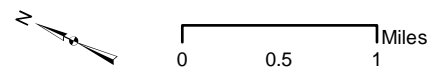


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- Legend**
- Substation
 - Overhead Eversource Line
 - Map Sheet
 - Eversource Owned Property
 - Municipal Boundary

PREPARED FOR:
EVERSOURCE
ENERGY

107 Selden Street
Berlin, CT 06037



INDEX OF FIGURES
Title Sheet / Index Map
Map Sheets 1-23
Notes & Details 1-3

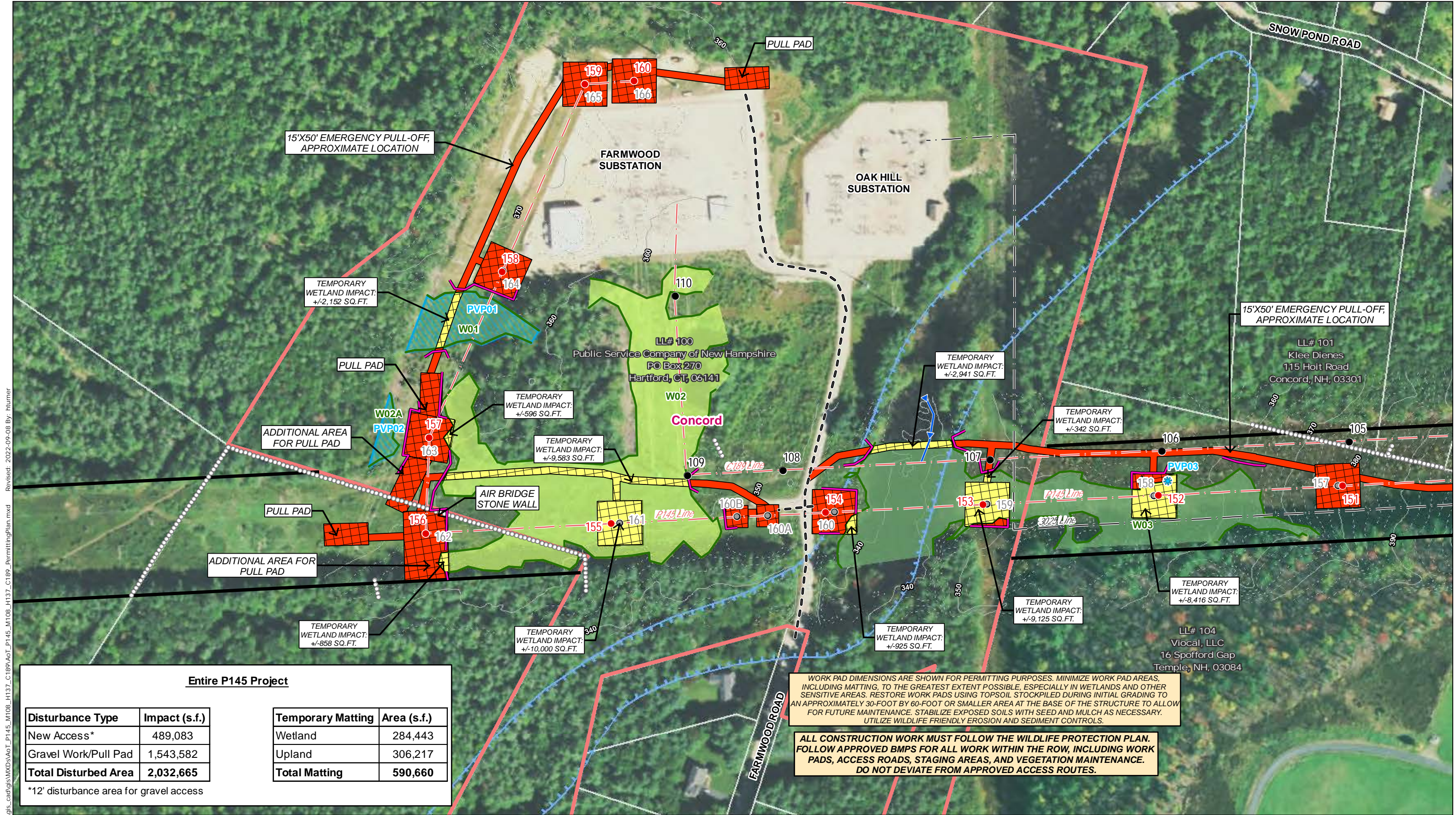
NO.	DATE	REVISIONS

PREPARED BY:



30 Park Drive
Topsham, ME 04086

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Entire P145 Project

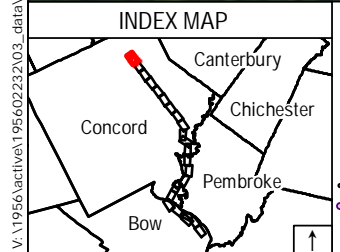
Disturbance Type	Impact (s.f.)
New Access*	489,083
Gravel Work/Pull Pad	1,543,582
Total Disturbed Area	2,032,665

*12' disturbance area for gravel access

Temporary Matting	Area (s.f.)
Wetland	284,443
Upland	306,217
Total Matting	590,660

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Legend

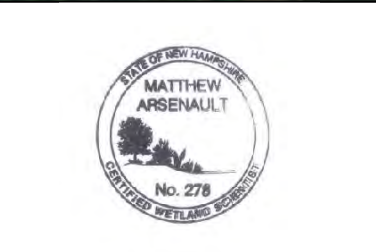
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Map Notes:
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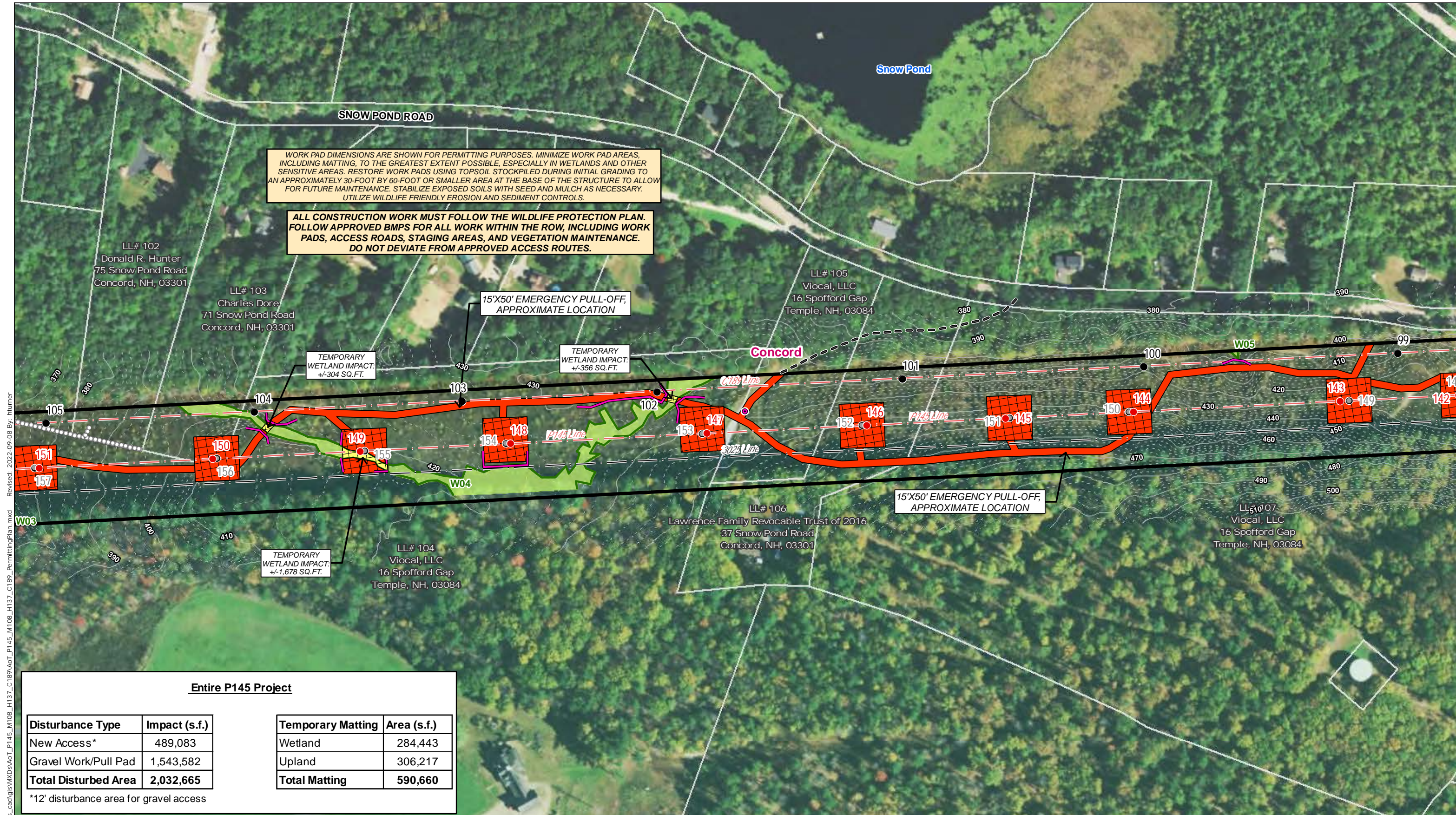
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EVERSOURCE ENERGY **Stantec**

P145 Rebuild & H137/M108/C189 Structure Replacement Alteration of Terrain Permitting Map Set

Concord, NH	MAP SHEET
Date: September 08, 2022	1 of 23



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15'X50' EMERGENCY PULL-OFF, APPROXIMATE LOCATION

TEMPORARY WETLAND IMPACT: +/-356 SQ.FT.

15'X50' EMERGENCY PULL-OFF, APPROXIMATE LOCATION

TEMPORARY WETLAND IMPACT: +/-1,678 SQ.FT.

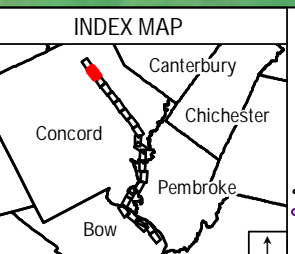
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Entire P145 Project

Disturbance Type	Impact (s.f.)
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Gravel Work/Pull Pad	1,543,582
Total Disturbed Area	2,032,665

*12' disturbance area for gravel access

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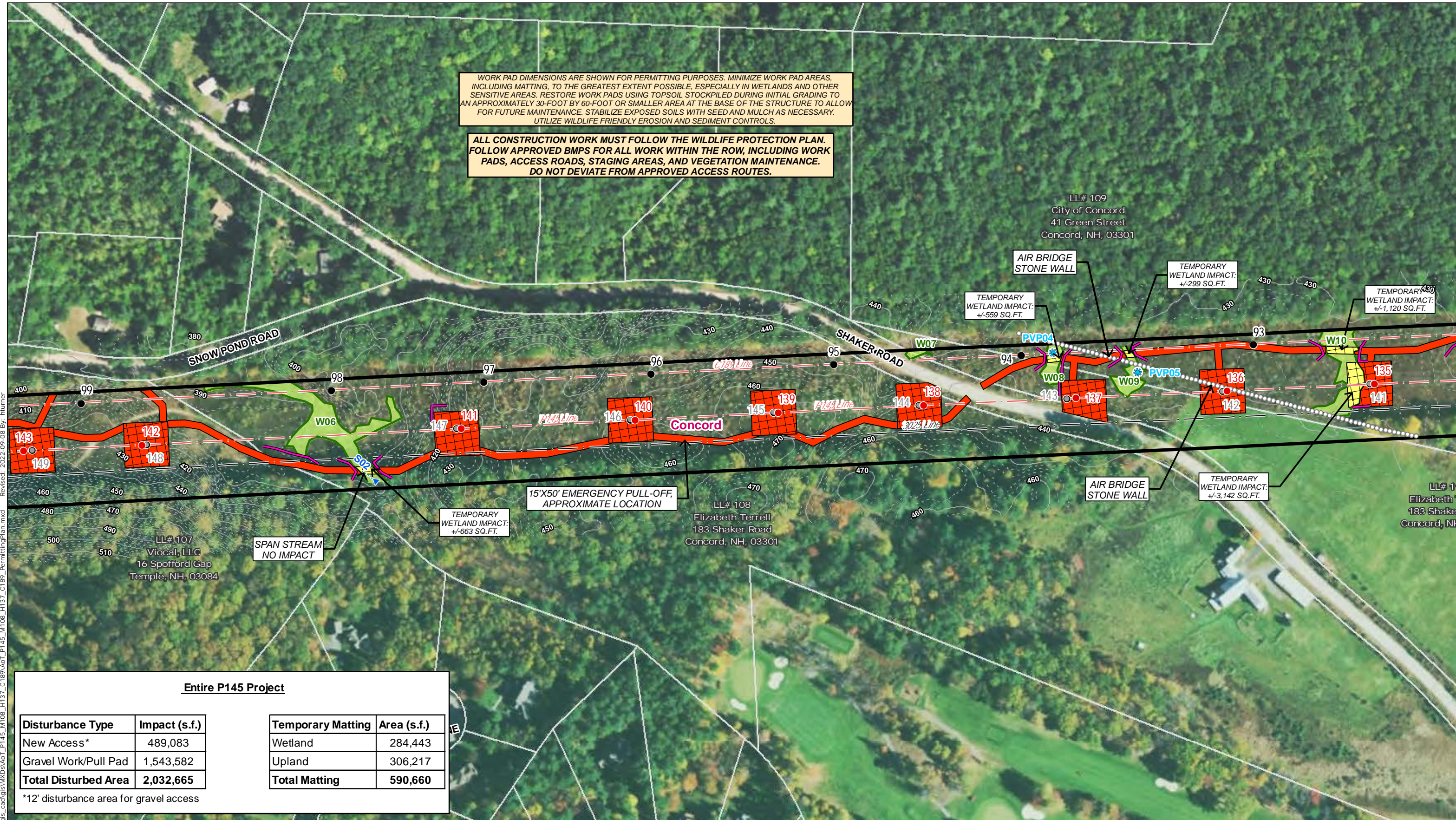
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 0 50 100 200 Feet

**P145 Rebuild & H137/M108/C189 Structure Replacement
Alteration of Terrain
Permitting Map Set**

Concord, NH	MAP SHEET
Date: September 08, 2022	2 of 23

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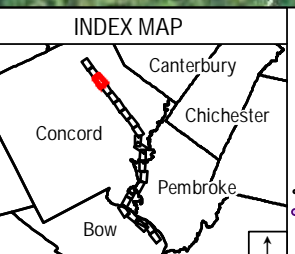
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 Revisd: 2022-09-08 By: hturner

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1 inch = 200 feet

0 50 100 200 Feet

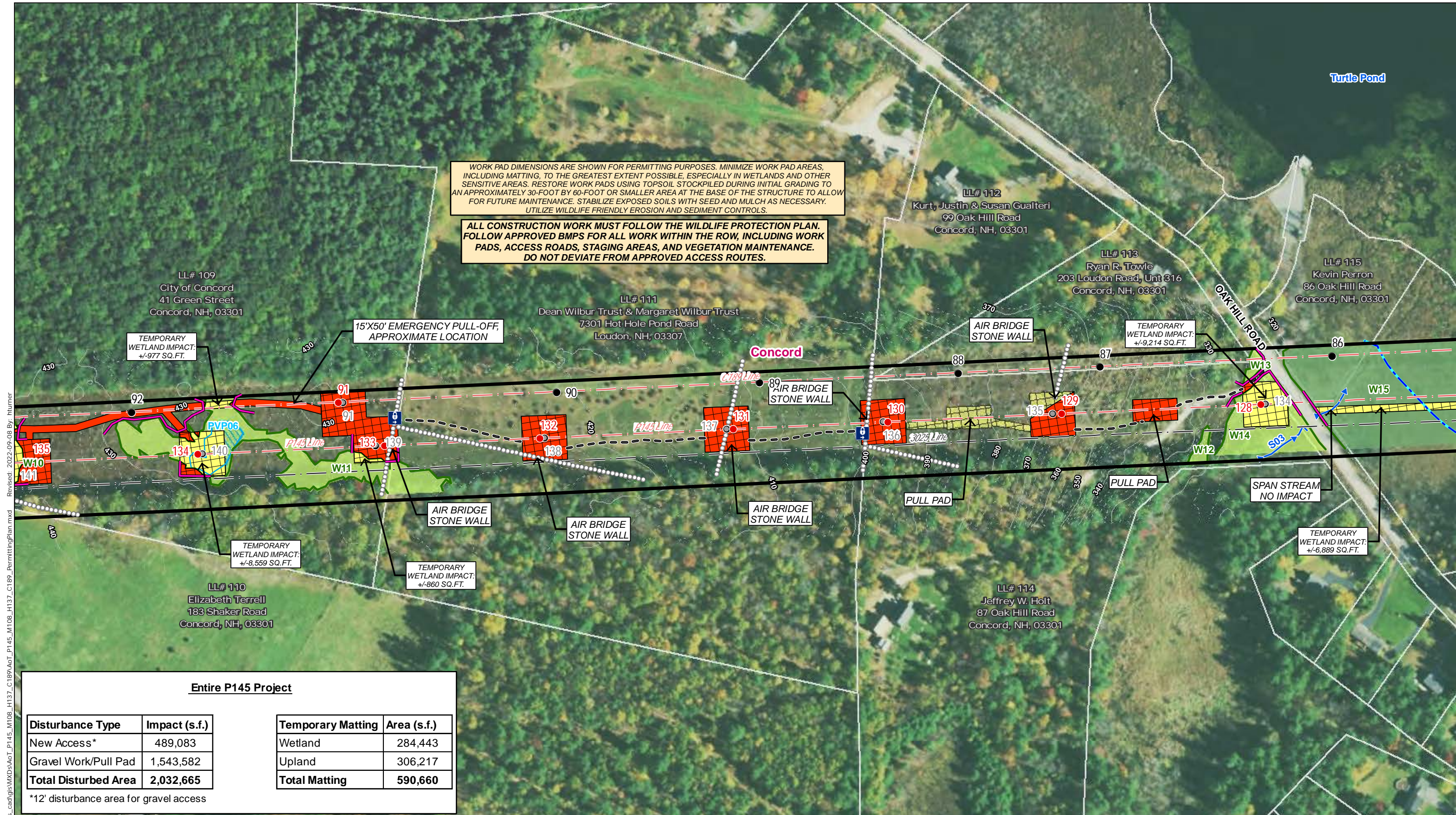
EVERSOURCE ENERGY **Stantec**

P145 Rebuild & H137/M108/C189 Structure Replacement Alteration of Terrain Permitting Map Set

Concord, NH MAP SHEET

Date: September 08, 2022

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15'X50' EMERGENCY PULL-OFF, APPROXIMATE LOCATION

TEMPORARY WETLAND IMPACT: +/-977 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-8,559 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-860 SQ.FT.

AIR BRIDGE STONE WALL

TEMPORARY WETLAND IMPACT: +/-9,214 SQ.FT.

SPAN STREAM NO IMPACT

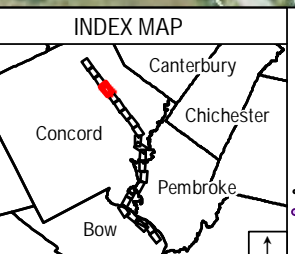
TEMPORARY WETLAND IMPACT: +/-6,889 SQ.FT.

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EVERSOURCE ENERGY **Stantec**

P145 Rebuild & H137/M108/C189 Structure Replacement Alteration of Terrain Permitting Map Set

Concord, NH	MAP SHEET
Date: September 08, 2022	4 of 23

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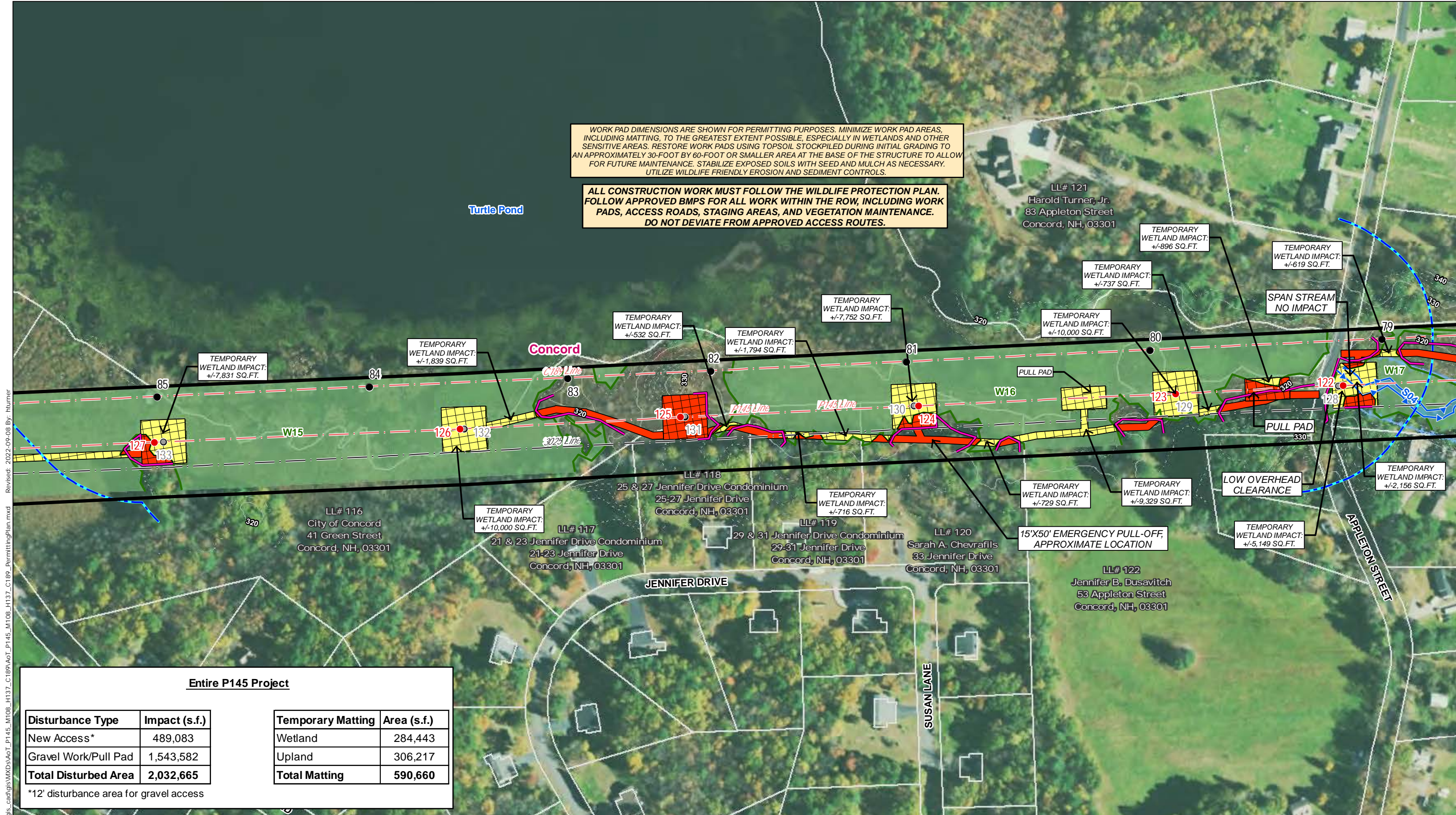
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Turtle Pond

LL# 121
Harold Turner, Jr.
83 Appleton Street
Concord, NH, 03301

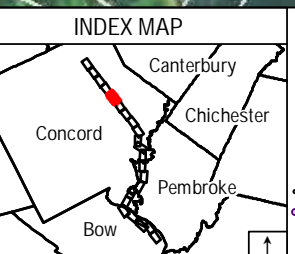


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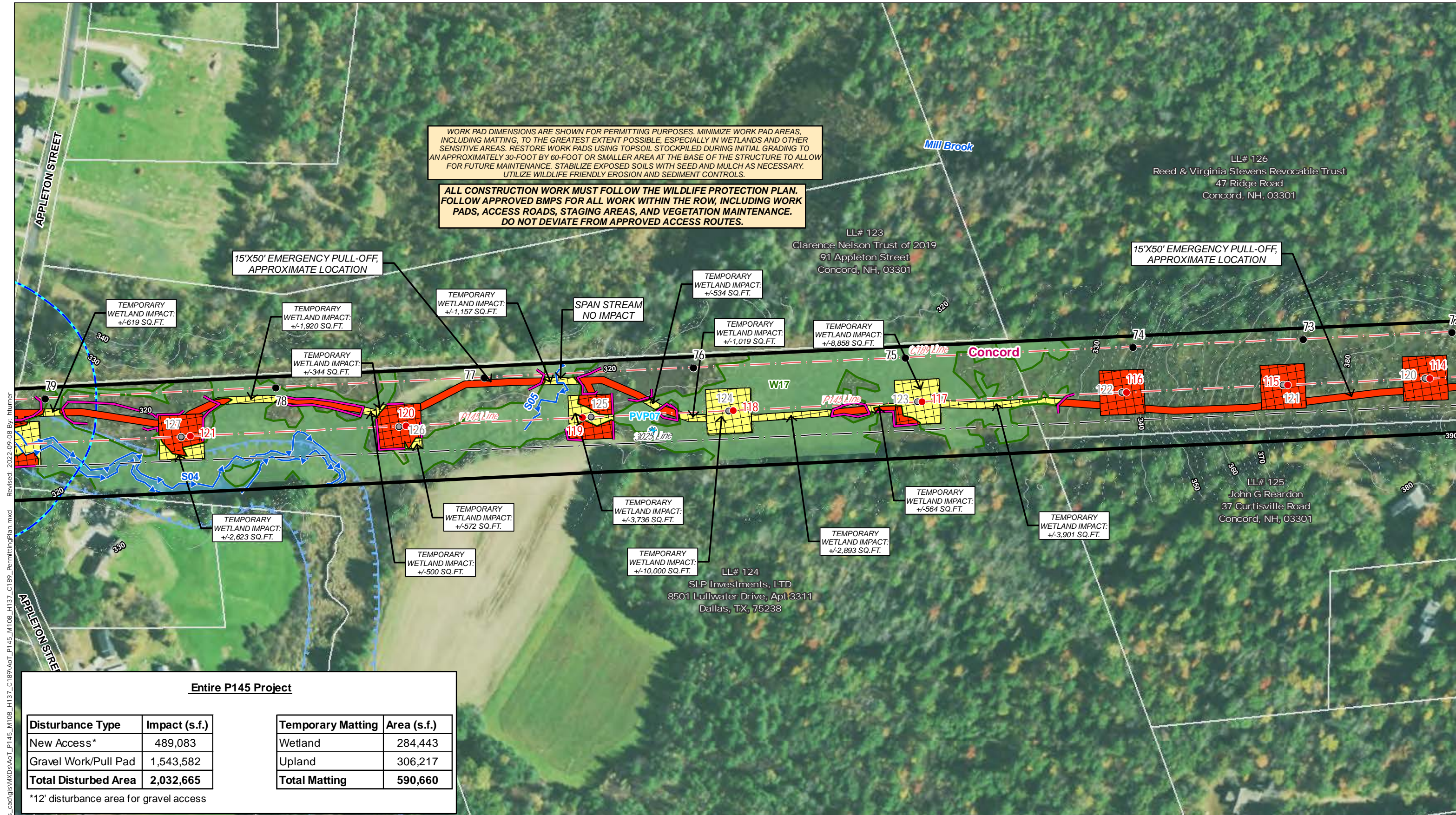
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P145 Rebuild & H137/M108/C189 Structure Replacement Alteration of Terrain Permitting Map Set

Concord, NH	MAP SHEET
Date: September 08, 2022	5 of 23



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LL# 126
Reed & Virginia Stevens Revocable Trust
47 Ridge Road
Concord, NH, 03301

LL# 123
Clarence Nelson Trust of 2019
91 Appleton Street
Concord, NH, 03301

LL# 125
John G Reardon
37 Curtisville Road
Concord, NH, 03301

LL# 124
SLP Investments, LTD
8501 Lullwater Drive, Apt 3311
Dallas, TX, 75238

15'X50' EMERGENCY PULL-OFF, APPROXIMATE LOCATION

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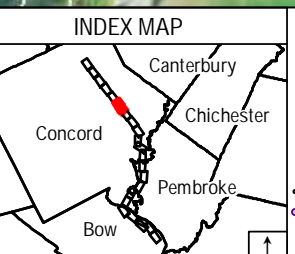
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LL# 128
Unitil Energy Systems, Inc.
6 Liberty Lane W
Hampton, NH, 03842

15'X50' EMERGENCY PULL-OFF, APPROXIMATE LOCATION

TEMPORARY WETLAND IMPACT: +/-2,708 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-3,852 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-806 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-1,362 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-915 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-5,391 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-2,904 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-1,096 SQ.FT.

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37 Curtsville Road
Concord, NH, 03301

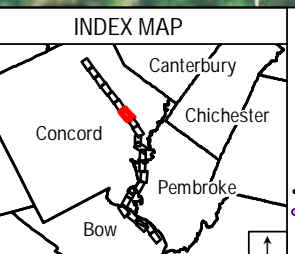
LL# 127
Reed & Virginia Stevens Revocable Trust
47 Ridge Road
Concord, NH, 03301

Entire P145 Project

Disturbance Type	Impact (s.f.)
New Access*	489,083
Gravel Work/Pull Pad	1,543,582
Total Disturbed Area	2,032,665

*12' disturbance area for gravel access

Temporary Matting	Area (s.f.)
Wetland	284,443
Upland	306,217
Total Matting	590,660

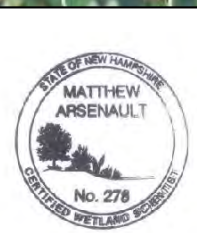


Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Overhead Distribution Line
- Underground Distribution Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Suggested Erosion and Sediment Control (TYP)
- AoT Disturbance Area - New Access
- AoT Disturbance Area - Pad
- Temporary Construction Matting
- Existing Gravel
- Eversource Owned Property
- State Owned Land
- LLN/Property Owner
- Parcel Boundary
- Municipal Boundary
- 2' Contours
- 10' Contours
- Potential Vernal Pool
- Potential Vernal Pool Extent
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Delineated Wetland Boundary
- Field Delineated Wetland
- Priority Resource Area
- Open Water
- FEMA 100-Year Flood Zone
- Floodway
- Berm
- NHDES Protected Shoreland
- Rail Road
- Approximate Gas Line
- Fence
- Stone Wall
- Gate
- Culvert
- Rare Species

Scale: 1 inch = 200 feet

Map Notes:
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Data source: Eversource easement lines, structures, transmission lines provided by Eversource Energy. Wetlands/watercourses delineated and verified by Stantec, October 2021.
Additional source include: NH Grant Basemap: 2018 National Agriculture Imagery Program (NAIP) aerial imagery



EVERSOURCE ENERGY **Stantec**

P145 Rebuild & H137/M108/C189 Structure Replacement Alteration of Terrain Permitting Map Set

Concord, NH MAP SHEET

Date: September 08, 2022

7 of 23

V:\195\active\195062232\03_data\gis_cad\gis\W\DS\AoT_P145_M108_H137_C189\PermittingPlan.mxd Revised: 2022-09-08 By: hturner

WORK PAD DIMENSIONS ARE SHOWN FOR PERMITTING PURPOSES. MINIMIZE WORK PAD AREAS, INCLUDING MATTING, TO THE GREATEST EXTENT POSSIBLE, ESPECIALLY IN WETLANDS AND OTHER SENSITIVE AREAS. RESTORE WORK PADS USING TOPSOIL STOCKPILED DURING INITIAL GRADING TO AN APPROXIMATELY 30-FOOT BY 60-FOOT OR SMALLER AREA AT THE BASE OF THE STRUCTURE TO ALLOW FOR FUTURE MAINTENANCE. STABILIZE EXPOSED SOILS WITH SEED AND MULCH AS NECESSARY. UTILIZE WILDLIFE FRIENDLY EROSION AND SEDIMENT CONTROLS.

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REFER TO NHDOT ENCUMBRANCE PERMIT CONDITIONS AND SAFETY REQUIREMENTS

TEMPORARY WETLAND IMPACT: +/-9,781 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-10,000 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-781 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-415 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-1,034 SQ.FT.

15'X50' EMERGENCY PULL-OFF, APPROXIMATE LOCATION

UTILIZE EXISTING TRAIL SPAN STREAM NO IMPACT

LL# 129
Unitil Energy Sytems, Inc.
6 Liberty Lane W
Hampton, NH, 03842

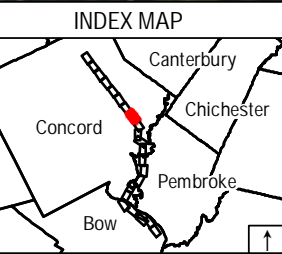
LL# 128
Unitil Energy Sytems, Inc.
6 Liberty Lane W
Hampton, NH, 03842

LL# 132
Hodges Properties, Inc.
201 Loudon Road
Concord, NH, 03301

Entire P145 Project

Disturbance Type	Impact (s.f.)	Temporary Matting	Area (s.f.)
New Access*	489,083	Wetland	284,443
Gravel Work/Pull Pad	1,543,582	Upland	306,217
Total Disturbed Area	2,032,665	Total Matting	590,660

*12' disturbance area for gravel access



Legend

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1 inch = 200 feet

0 50 100 200 Feet



EVERSOURCE ENERGY **Stantec**

P145 Rebuild & H137/M108/C189 Structure Replacement Alteration of Terrain Permitting Map Set

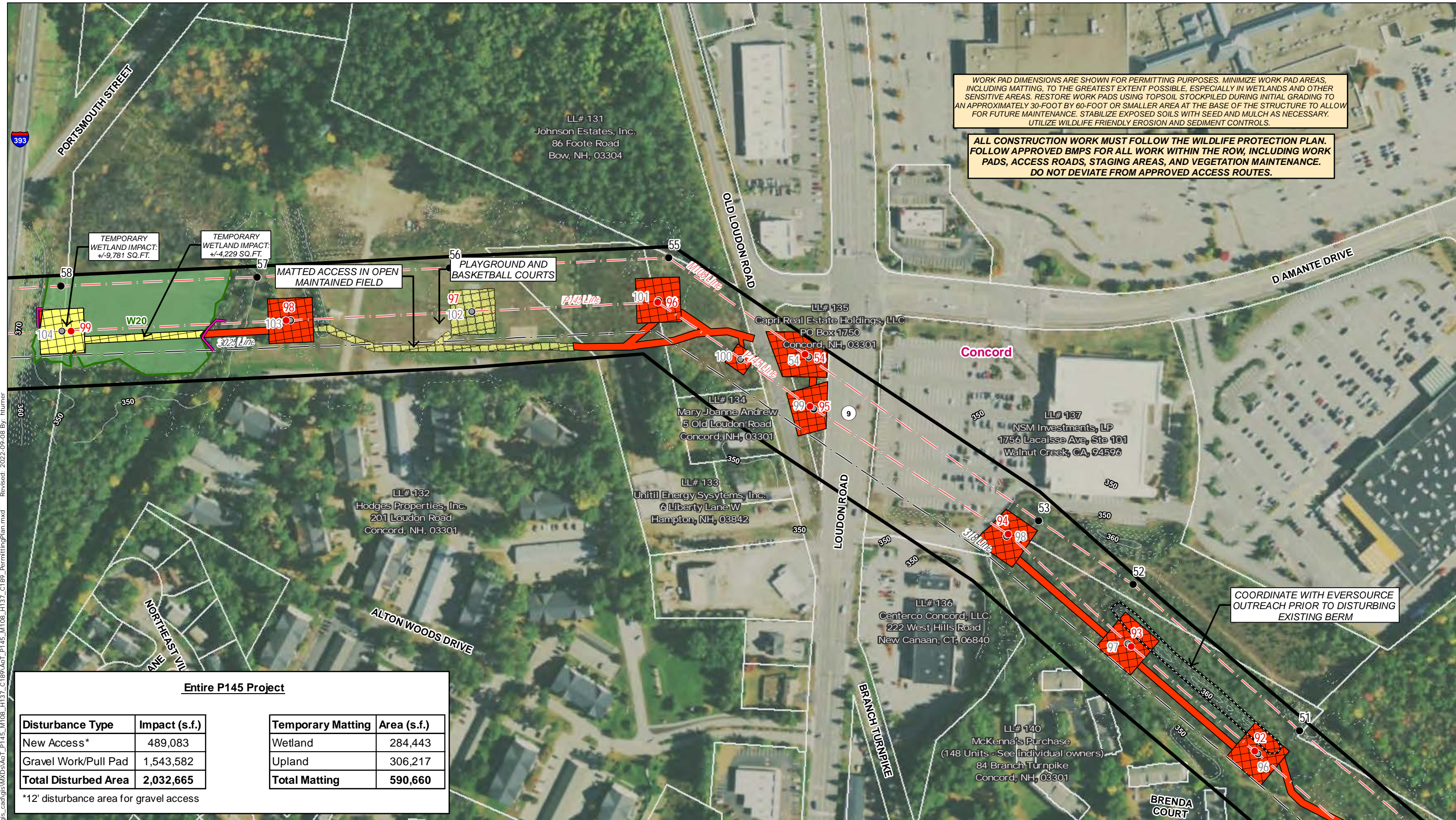
Concord, NH	MAP SHEET
Date: September 08, 2022	8 of 23

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COORDINATE WITH EVERSOURCE OUTREACH PRIOR TO DISTURBING EXISTING BERM

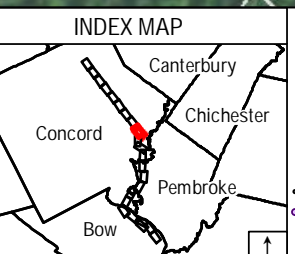


Entire P145 Project

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Eversource Energy | **Stantec**

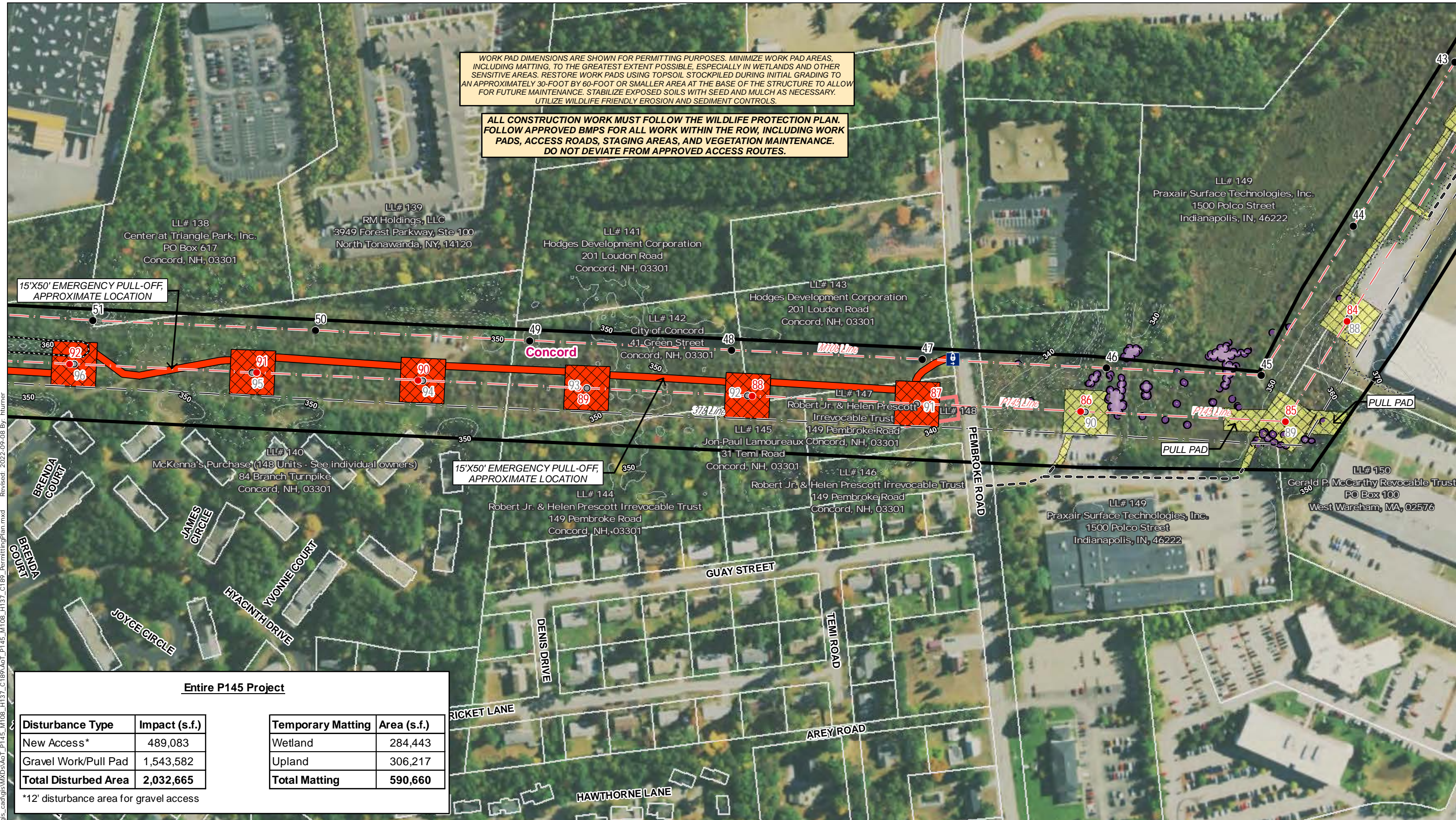
P145 Rebuild & H137/M108/C189 Structure Replacement Alteration of Terrain Permitting Map Set

Concord, NH	MAP SHEET
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15'X50' EMERGENCY PULL-OFF, APPROXIMATE LOCATION

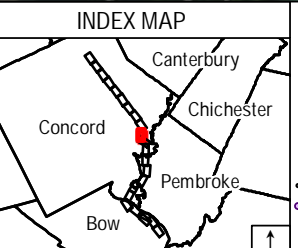
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- Floodway
- Berm
- NHDES Protected Shoreland
- Rail Road
- Approximate Gas Line
- Fence
- Stone Wall
- Gate
- Culvert
- Rare Species
- Rare Species
- Wild Lupine



EVERSOURCE ENERGY **Stantec**

P145 Rebuild & H137/M108/C189 Structure Replacement Alteration of Terrain Permitting Map Set

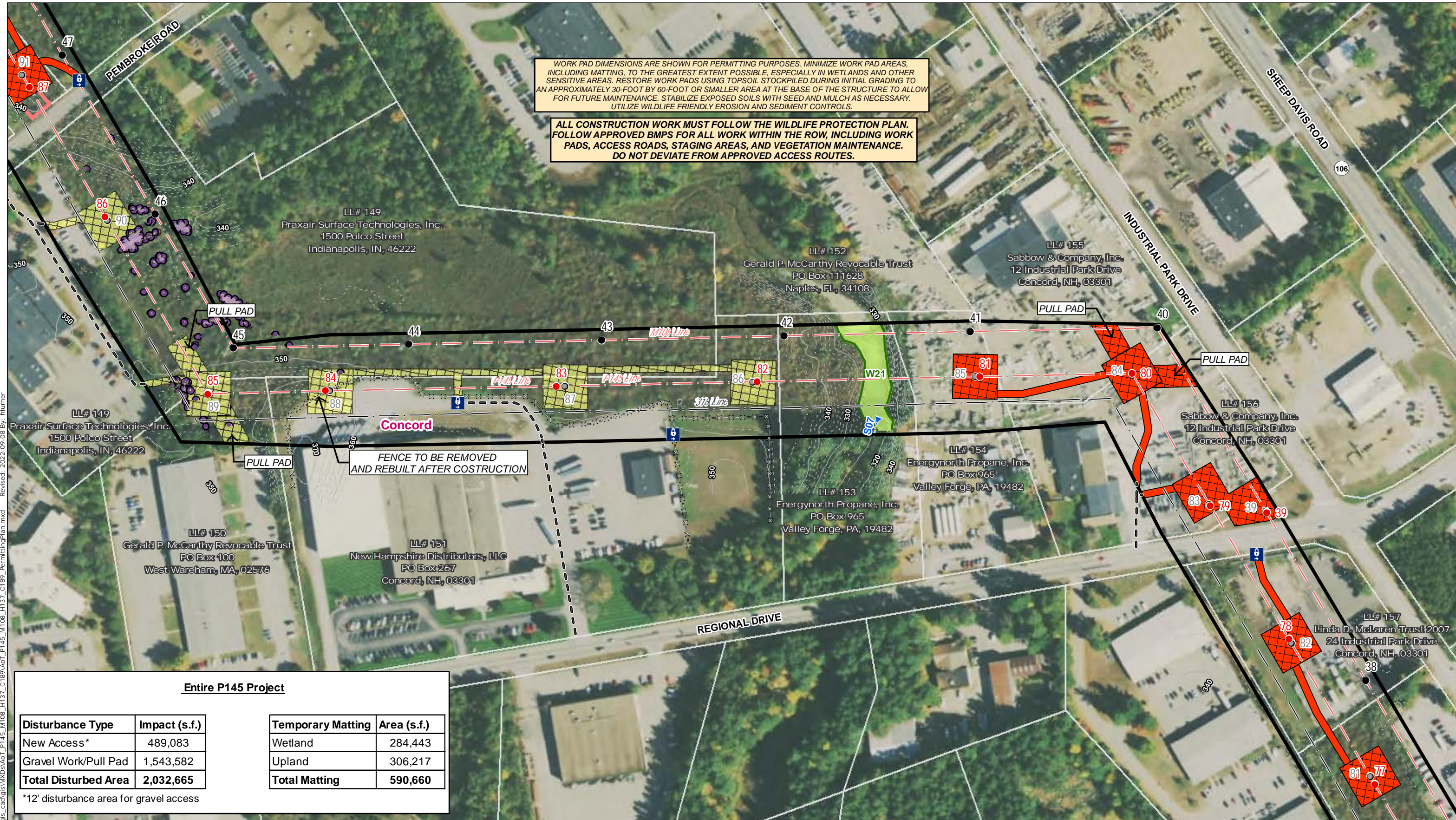
Concord, NH	MAP SHEET
Date: September 08, 2022	10 of 23

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Map Notes:
 Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
 Data source: Eversource easement lines, structures, transmission lines provided by Eversource Energy. Wetlands/watercourses delineated and verified by Stantec, October 2021.
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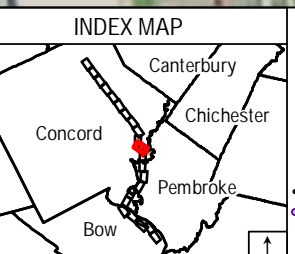


Entire P145 Project

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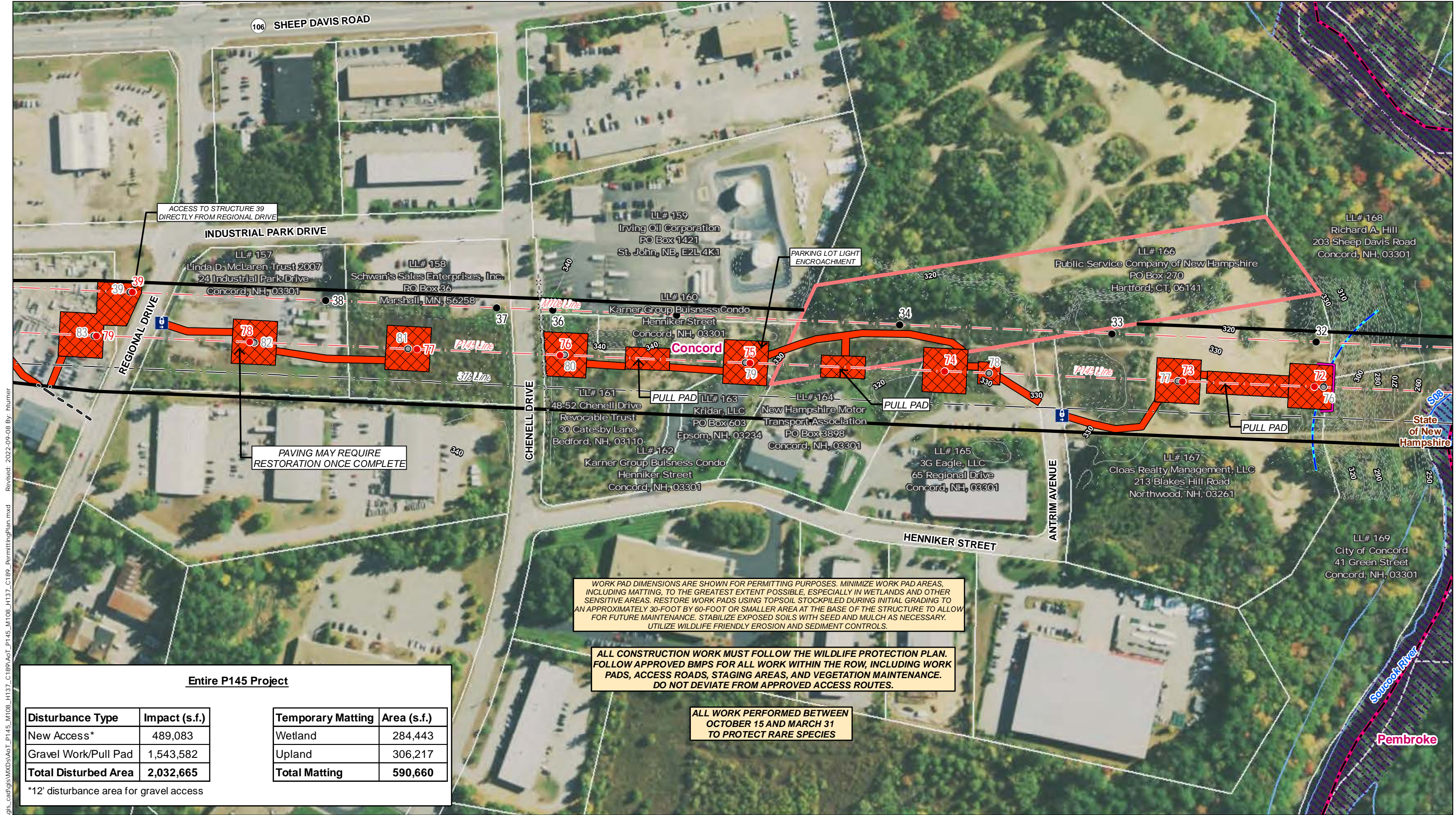


EVERSOURCE ENERGY **Stantec**

P145 Rebuild & H137/M108/C189 Structure Replacement Alteration of Terrain Permitting Map Set

Concord, NH	MAP SHEET
Date: September 08, 2022	11 of 23

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ACCESS TO STRUCTURE 39 DIRECTLY FROM REGIONAL DRIVE

INDUSTRIAL PARK DRIVE

LL# 157
Linda D. McLaren Trust 2007
24 Industrial Park Drive
Concord, NH, 03301

LL# 153
Schwan's Sales Enterprises, Inc.
PO Box 36
Marshall, MN, 56258

LL# 159
Irving Oil Corporation
PO Box 1421
St. John, NB, E2L 4K1

PARKING LOT LIGHT ENCROACHMENT

LL# 166
Public Service Company of New Hampshire
PO Box 270
Hartford, CT, 06141

LL# 168
Richard A. Hill
203 Sheep Davis Road
Concord, NH, 03301

PAVING MAY REQUIRE RESTORATION ONCE COMPLETE

CHENELL DRIVE

LL# 161
48-52 Chenell Drive
Revocable Trust
30 Catesby Lane
Bedford, NH, 03110

LL# 162
Karner Group Business Condo
Heniker Street
Concord, NH, 03301

LL# 163
Kridar, LLC
PO Box 603
Epsom, NH, 03234

LL# 164
New Hampshire Motor Transport Association
PO Box 3898
Concord, NH, 03301

LL# 165
3G Eagle, LLC
65 Regional Drive
Concord, NH, 03301

LL# 167
Cloas Realty Management, LLC
213 Blakes Hill Road
Northwood, NH, 03261

LL# 169
City of Concord
41 Green Street
Concord, NH, 03301

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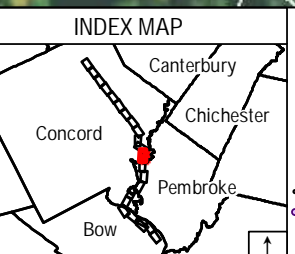
ALL WORK PERFORMED BETWEEN OCTOBER 15 AND MARCH 31 TO PROTECT RARE SPECIES

Entire P145 Project

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- Rail Road
- Approximate Gas Line
- Fence
- Stone Wall
- Gate
- Culvert
- Rare Species

1 inch = 200 feet

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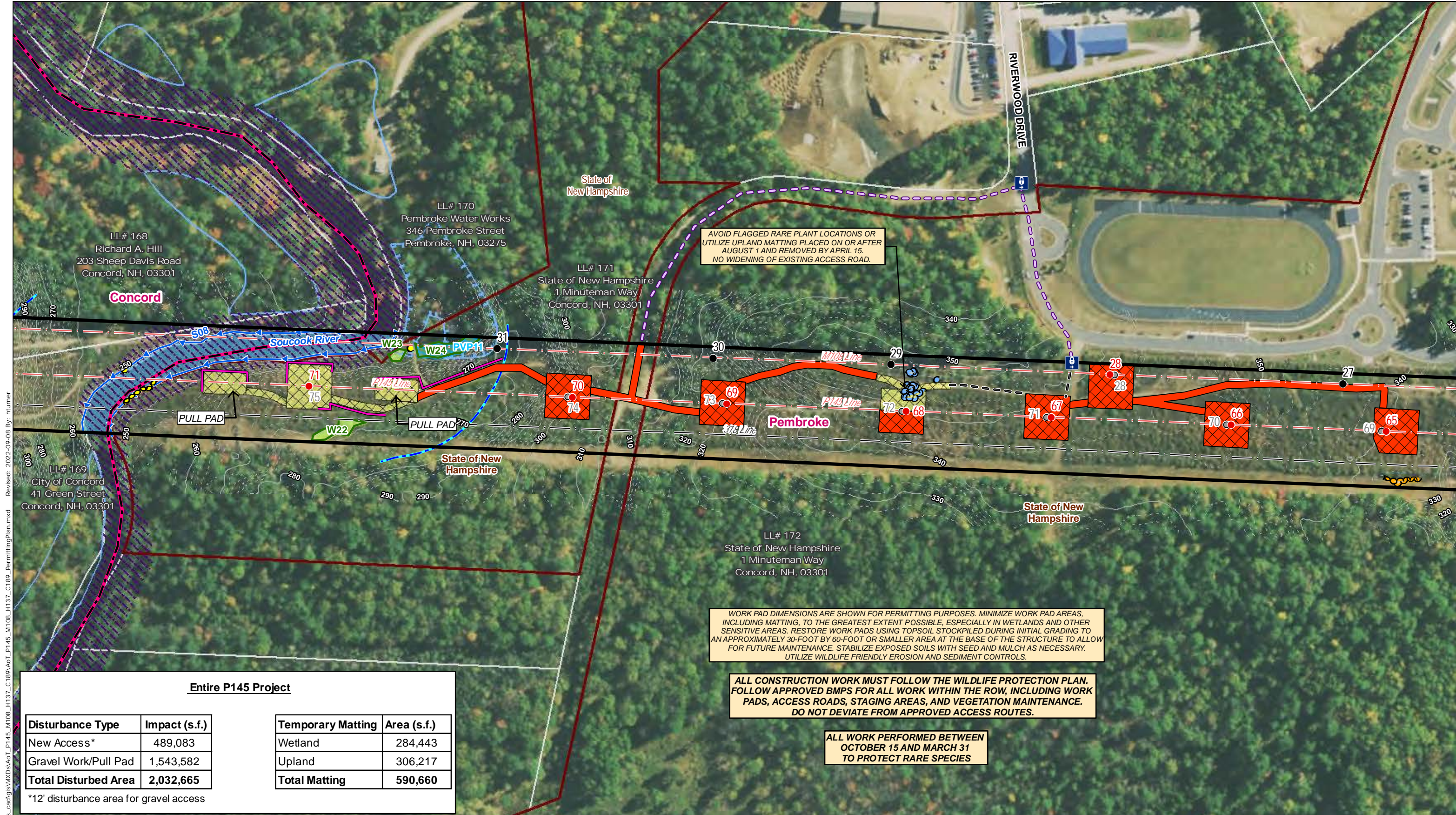


EVERSOURCE ENERGY **Stantec**

P145 Rebuild & H137/M108/C189 Structure Replacement Alteration of Terrain Permitting Map Set

Concord, NH	MAP SHEET
Date: September 08, 2022	12 of 23

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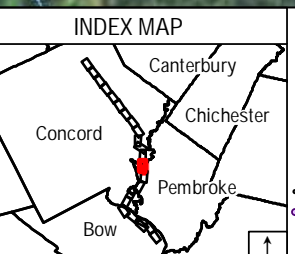
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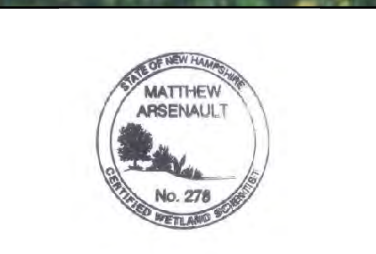


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 - Stone Wall
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 - Rare Species
 - Rare Species: Licorice Goldenrod
 - Rare Species: Dry Land Sedge
 - Rare Species: Hollow Joe-Pye Weed

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This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

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**P145 Rebuild & H137/M108/C189 Structure Replacement
Alteration of Terrain
Permitting Map Set**

Pembroke & Concord, NH	MAP SHEET
Date: September 08, 2022	13 of 23



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Entire P145 Project			
Disturbance Type	Impact (s.f.)	Temporary Matting	Area (s.f.)
New Access*	489,083	Wetland	284,443
Gravel Work/Pull Pad	1,543,582	Upland	306,217
Total Disturbed Area	2,032,665	Total Matting	590,660

*12' disturbance area for gravel access

WORK PAD DIMENSIONS ARE SHOWN FOR PERMITTING PURPOSES. MINIMIZE WORK PAD AREAS, INCLUDING MATTING, TO THE GREATEST EXTENT POSSIBLE, ESPECIALLY IN WETLANDS AND OTHER SENSITIVE AREAS. RESTORE WORK PADS USING TOPSOIL STOCKPILED DURING INITIAL GRADING TO AN APPROXIMATELY 30-FOOT BY 60-FOOT OR SMALLER AREA AT THE BASE OF THE STRUCTURE TO ALLOW FOR FUTURE MAINTENANCE. STABILIZE EXPOSED SOILS WITH SEED AND MULCH AS NECESSARY. UTILIZE WILDLIFE FRIENDLY EROSION AND SEDIMENT CONTROLS.

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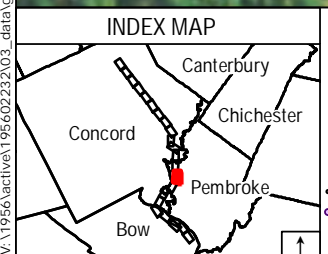
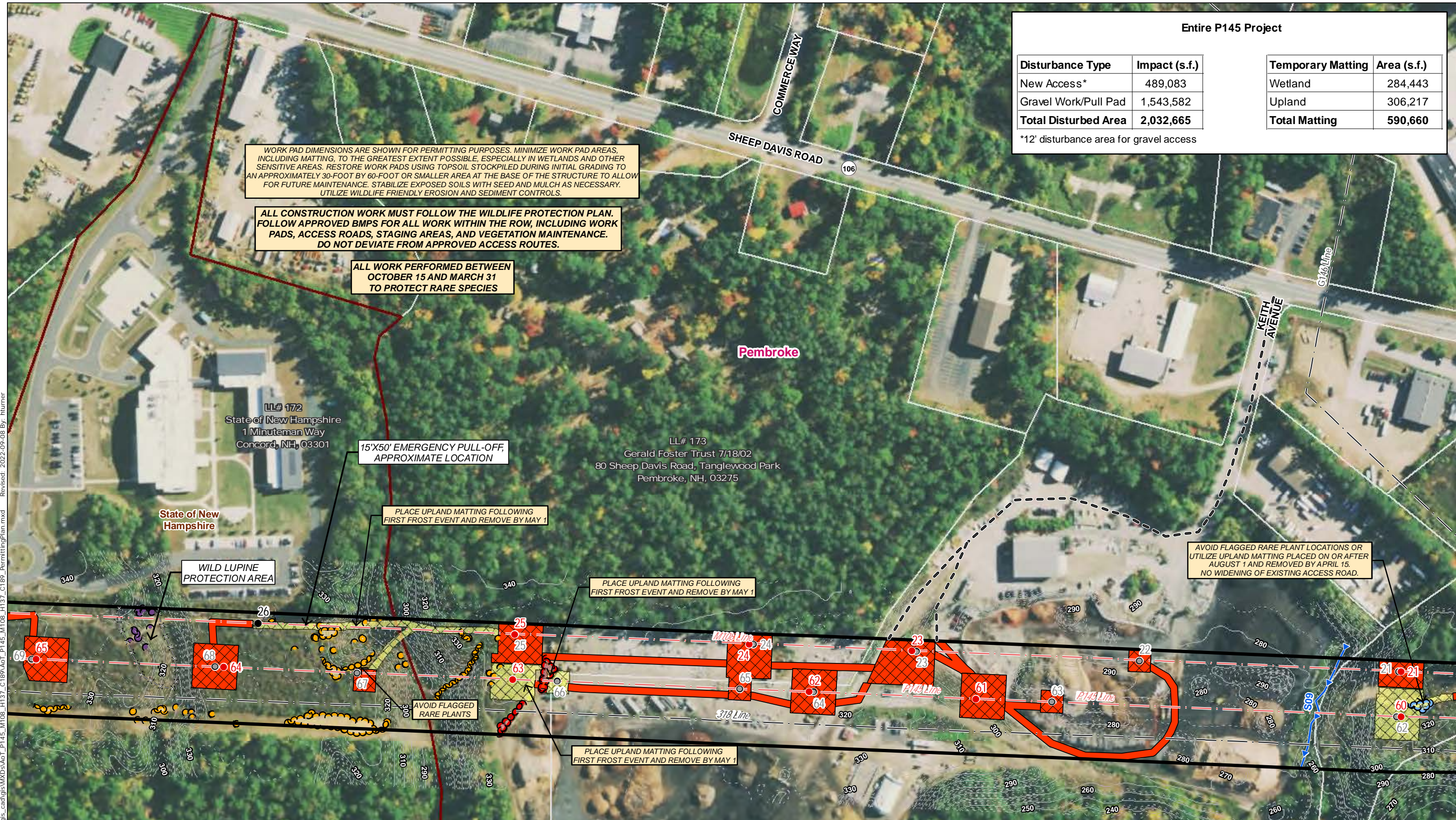
ALL WORK PERFORMED BETWEEN OCTOBER 15 AND MARCH 31 TO PROTECT RARE SPECIES

15'X50' EMERGENCY PULL-OFF, APPROXIMATE LOCATION

PLACE UPLAND MATTING FOLLOWING FIRST FROST EVENT AND REMOVE BY MAY 1

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AVOID FLAGGED RARE PLANT LOCATIONS OR UTILIZE UPLAND MATTING PLACED ON OR AFTER AUGUST 1 AND REMOVED BY APRIL 15. NO WIDENING OF EXISTING ACCESS ROAD.



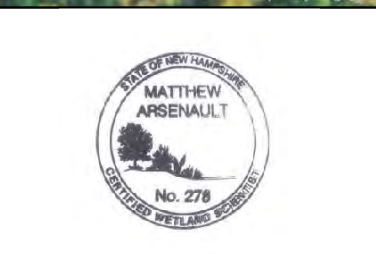
Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Overhead Distribution Line
- Underground Distribution Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Suggested Erosion and Sediment Control (TYP)
- AoT Disturbance Area - New Access
- AoT Disturbance Area - Pad
- Temporary Construction Matting
- Existing Gravel
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- State Owned Land
- LLN/Property Owner
- Parcel Boundary
- Municipal Boundary
- 10' Contours
- Potential Vernal Pool
- Potential Vernal Pool Extent
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Delineated Wetland Boundary
- Field Delineated Wetland
- Priority Resource Area
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- FEMA 100-Year Flood Zone
- Floodway
- Berm
- NHDES Protected Shoreland
- Rail Road
- GAS Approximate Gas Line
- Fence
- Stone Wall
- Gate
- Culvert
- Rare Species
- Wild Lupine
- Licorice Goldenrod
- Dry Land Sedge
- Red Threewain

Map Notes:
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1 inch = 200 feet

0 50 100 200 Feet



EVERSOURCE ENERGY **Stantec**

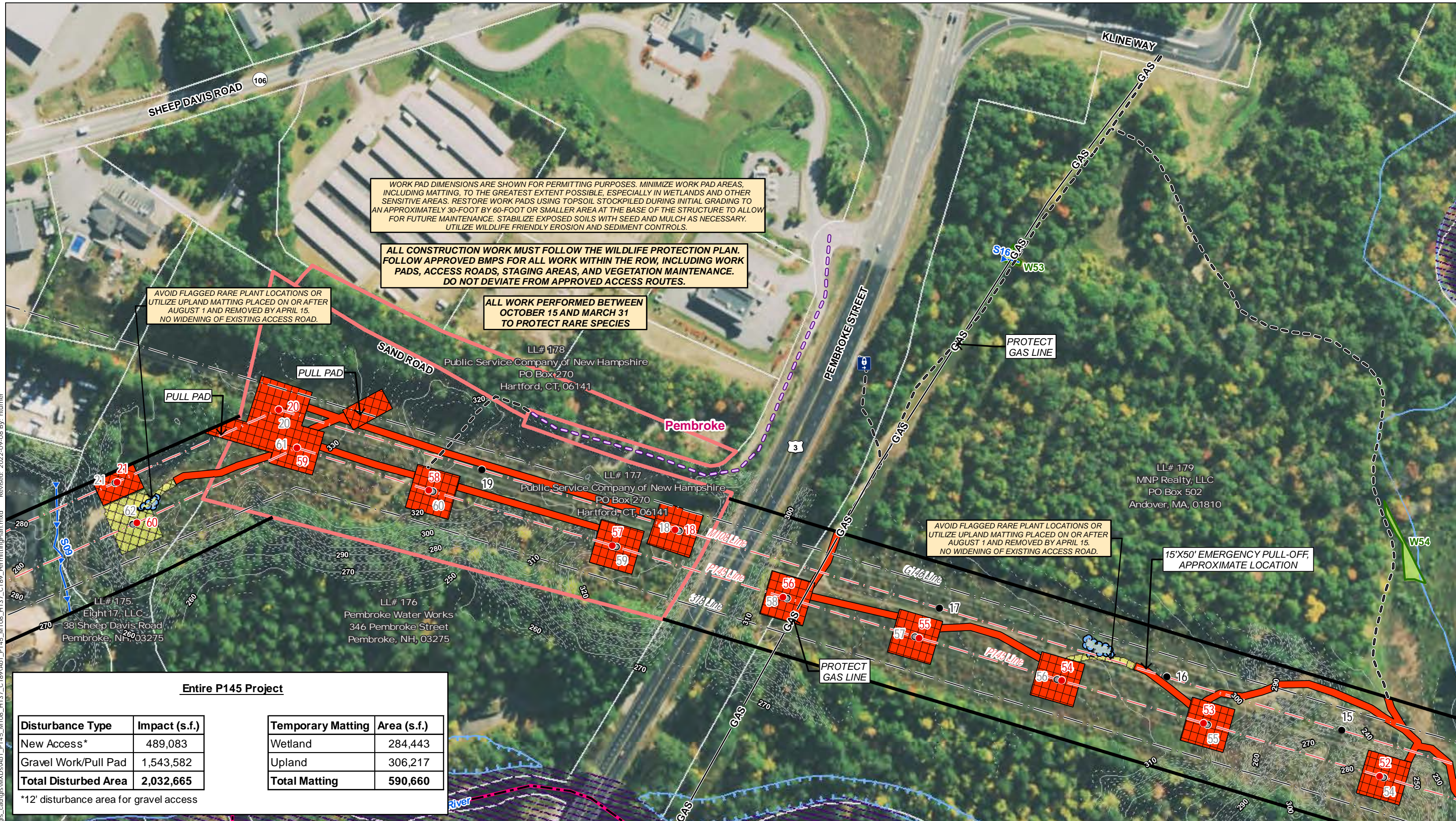
P145 Rebuild & H137/M108/C189 Structure Replacement Alteration of Terrain Permitting Map Set

Pembroke, NH MAP SHEET

Date: September 08, 2022

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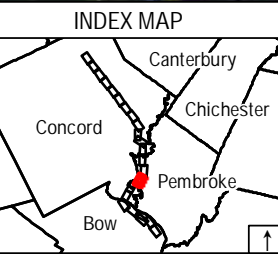
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15'X50' EMERGENCY PULL-OFF, APPROXIMATE LOCATION

Entire P145 Project

Disturbance Type	Impact (s.f.)	Temporary Matting	Area (s.f.)
New Access*	489,083	Wetland	284,443
Gravel Work/Pull Pad	1,543,582	Upland	306,217
Total Disturbed Area	2,032,665	Total Matting	590,660

*12' disturbance area for gravel access



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Overhead Distribution Line
- Underground Distribution Line
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- Existing Gravel
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- State Owned Land
- LLN/Property Owner
- Parcel Boundary
- Municipal Boundary
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- 10' Contours
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- Stone Wall
- Gate
- Culvert
- Rare Species
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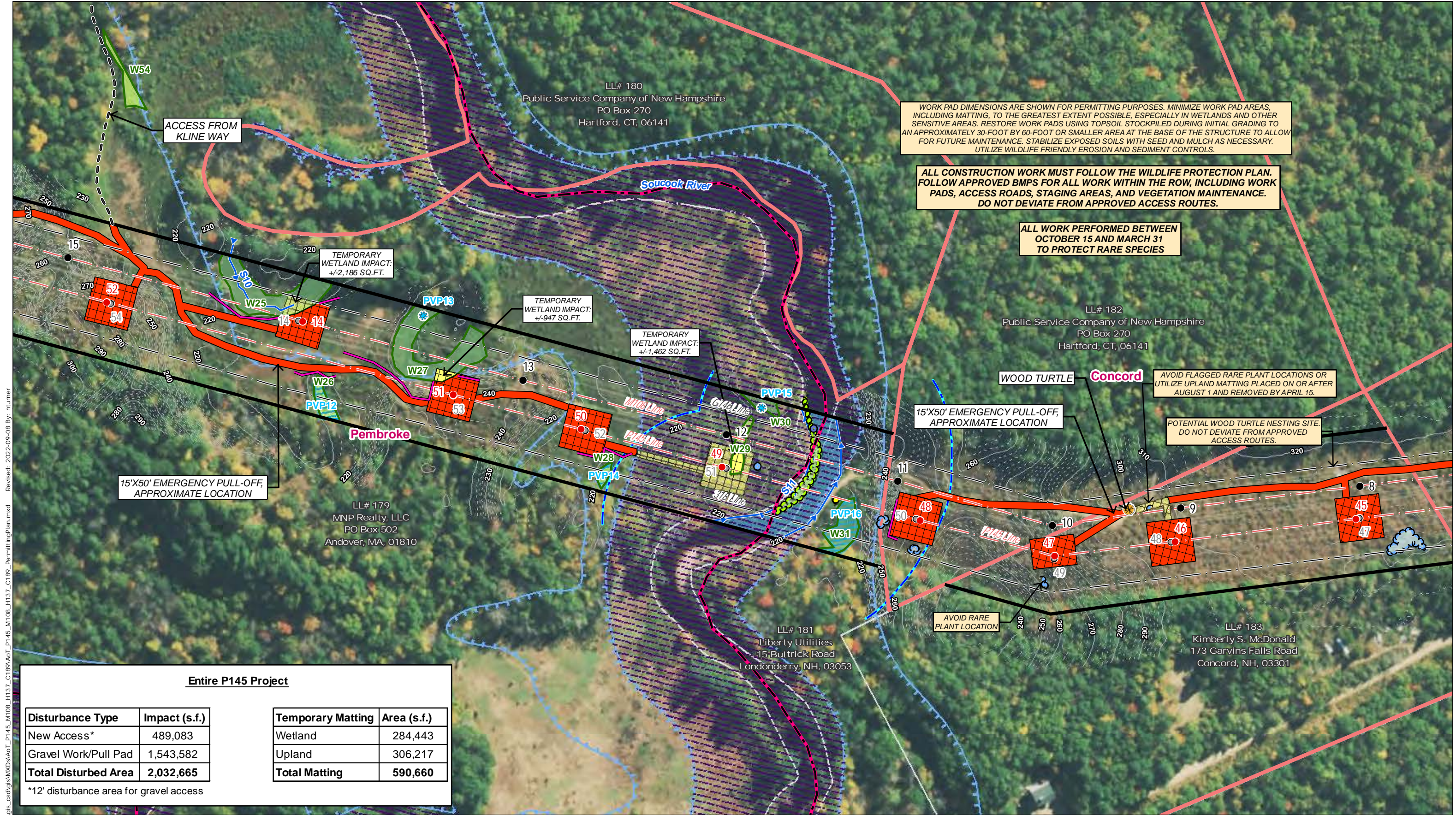
0 50 100 200 Feet



EVERSOURCE ENERGY **Stantec**

P145 Rebuild & H137/M108/C189 Structure Replacement Alteration of Terrain Permitting Map Set

Pembroke, NH	MAP SHEET
Date: September 08, 2022	15 of 23



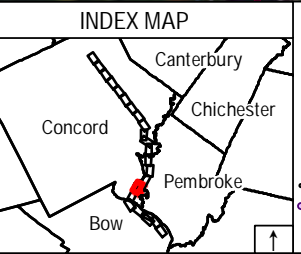
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Entire P145 Project

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New Access*	489,083
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- Rail Road
- Approximate Gas Line
- Fence
- Stone Wall
- Gate
- Culvert
- Rare Species
- Dry Land Sedge
- Hollow Joe-Pye Weed
- Incurved Umbrella Sedge
- Red-root Umbrella Sedge

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0 50 100 200 Feet

EVERSOURCE ENERGY Stantec

**P145 Rebuild & H137/M108/C189 Structure Replacement
Alteration of Terrain
Permitting Map Set**

Concord & Pembroke, NH	MAP SHEET
Date: September 08, 2022	16 of 23

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15'X50' EMERGENCY PULL-OFF, APPROXIMATE LOCATION

150'X75' MOBILE YARD AND TAPS

20' WIDE UNDERGROUND DISTRIBUTION FEEDER

TEMPORARY WETLAND IMPACT: +/-230 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-920 SQ.FT.

AVOID FLAGGED RARE PLANT LOCATIONS OR UTILIZE UPLAND MATTING PLACED ON OR AFTER AUGUST 1 AND REMOVED BY APRIL 15.

UTILIZE MATTING TO PROTECT AREA OF ARCHAEOLOGICAL SENSITIVITY

TEMPORARY WETLAND IMPACT: +/-653 SQ.FT.

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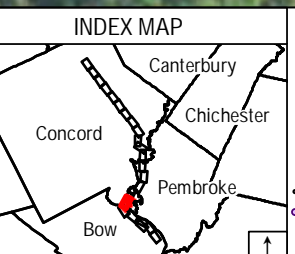
UTILIZE EXISTING WORK PAD AREAS AS STAGING AREAS ONLY. FOLLOW BMP'S

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Entire P145 Project

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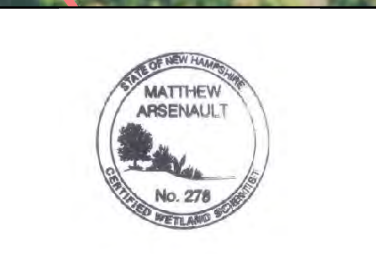


- Legend**
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This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

Map Notes:
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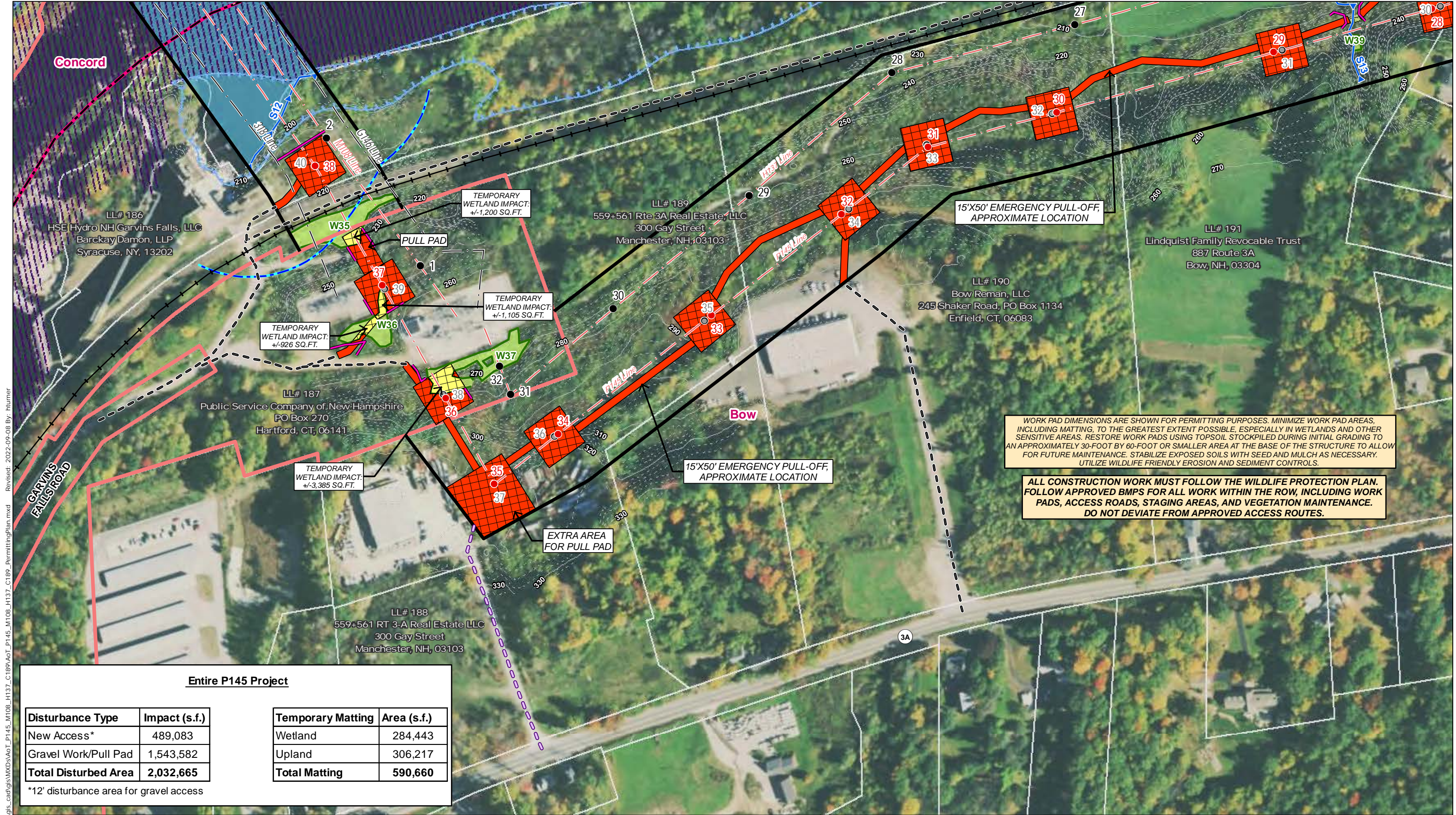


EVERSOURCE ENERGY **Stantec**

P145 Rebuild & H137/M108/C189 Structure Replacement Alteration of Terrain Permitting Map Set

Bow & Concord, NH	MAP SHEET
Date: September 08, 2022	17 of 23

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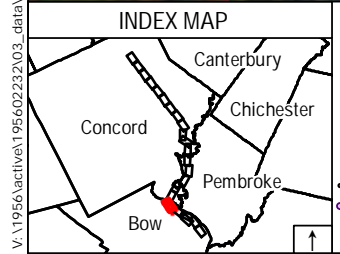
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Legend

- Existing Structure
- Potential Vernal Pool
- FEMA 100-Year Flood Zone
- Rare Species
- Existing Structure to be Removed
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- Floodway
- Proposed Structure
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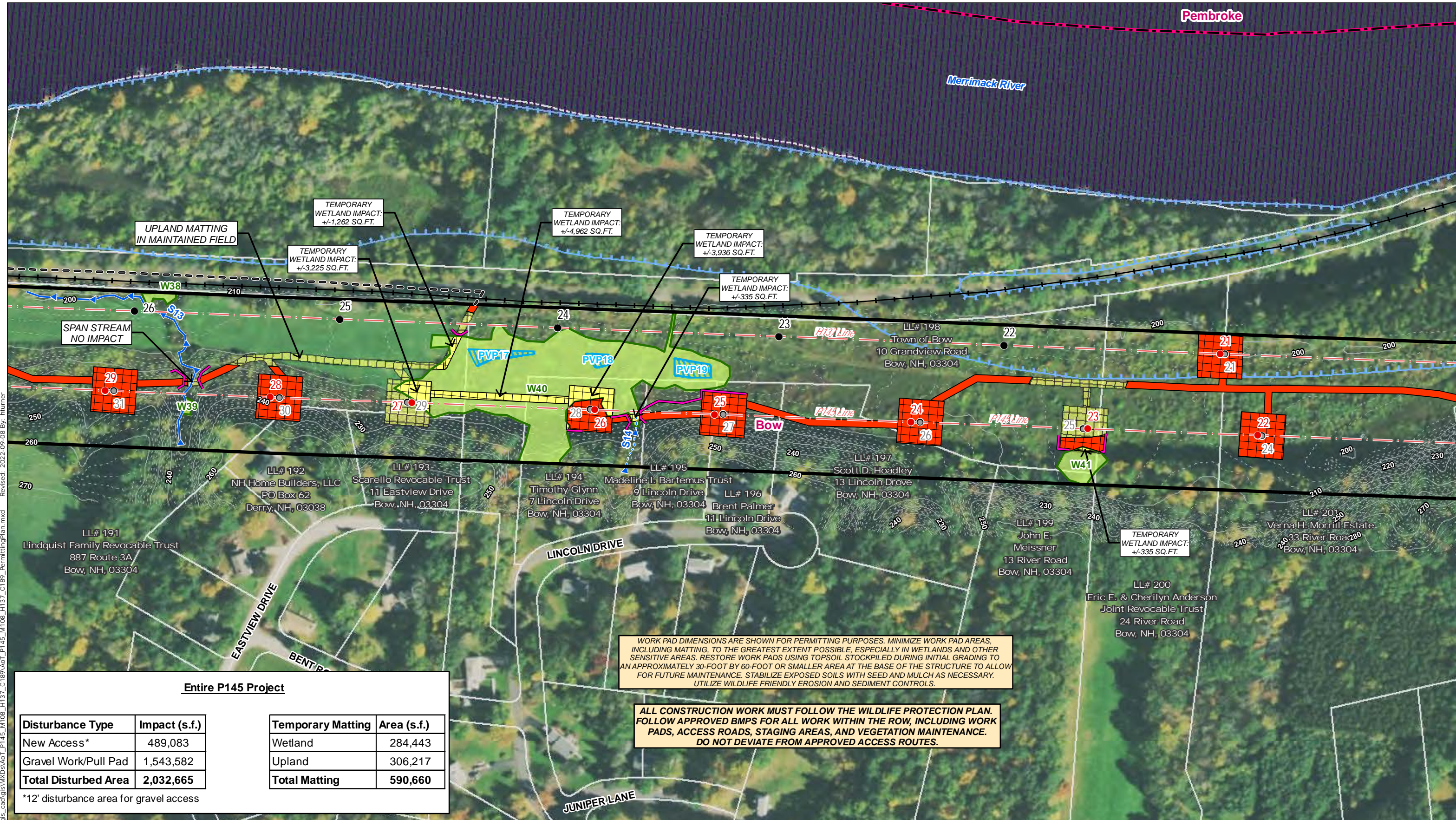
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**P145 Rebuild & H137/M108/C189 Structure Replacement
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Bow, NH	MAP SHEET
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 Revised: 2022-09-08 By: hturner

Merrimack River



UPLAND MATTING IN MAINTAINED FIELD

TEMPORARY WETLAND IMPACT: +/-1,262 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-3,225 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-4,962 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-3,936 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-335 SQ.FT.

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SPAN STREAM NO IMPACT

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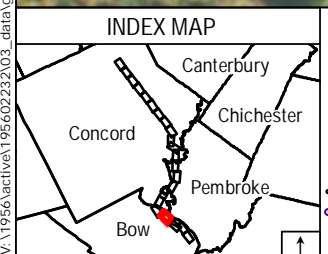
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EVERSOURCE ENERGY **Stantec**

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Bow, NH	MAP SHEET
Date: September 08, 2022	19 of 23

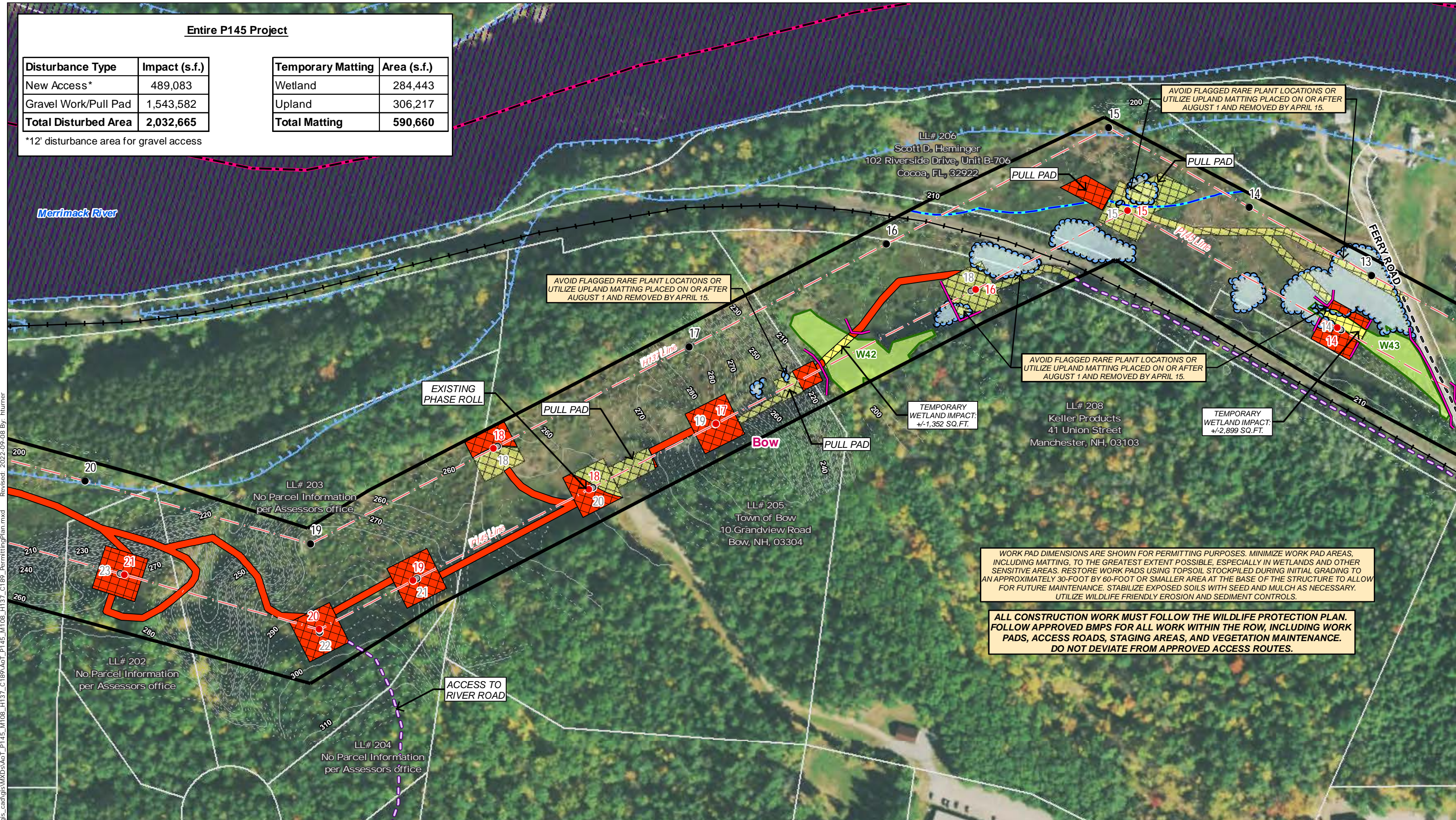
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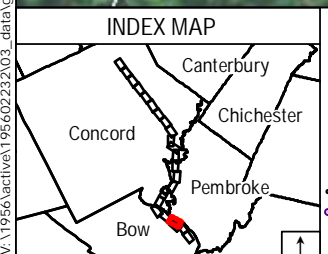
TEMPORARY WETLAND IMPACT: +/-1,352 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-2,899 SQ.FT.

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Legend

● Existing Structure	■ AoT Disturbance Area - New Access	☁ Potential Vernal Pool	🌊 FEMA 100-Year Flood Zone	☀ Rare Species
● Existing Structure to be Removed	■ AoT Disturbance Area - Pad	🌊 Potential Vernal Pool Extent	🚧 Floodway	☀ Rare Species
● Proposed Structure	■ Temporary Construction Matting	🌊 Delineated Perennial Stream	🚧 Berm	☀ Dry Land Sedge
— Overhead Eversource Line	■ Existing Gravel	🌊 Delineated Intermittent Stream	🚧 NHDES Protected Shoreland	
— Overhead Distribution Line	■ Eversource Owned Property	🌊 Delineated Ephemeral Stream	🚧 Rail Road	
— Underground Distribution Line	■ State Owned Land	🌊 Delineated Wetland Boundary	🚧 GAS Approximate Gas Line	
— Existing Right-of-Way (ROW)	■ LLN/Property Owner	🌊 Field Delineated Wetland	🚧 X-X Fence	
— Existing Access	■ Parcel Boundary	🌊 Priority Resource Area	🚧 Stone Wall	
— Off-ROW Access Pending Rights	— Municipal Boundary	🌊 Open Water	🚧 Gate	
— Suggested Erosion and Sediment Control (TYP)	— 2' Contours		🚧 Culvert	
	— 10' Contours			

This mapping product has been created to comply with submittal requirements to obtain certain regulatory approvals and, as such, there is no reliance on the information contained herein for any other purpose.

1 inch = 200 feet

Map Notes:
 Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
 Data source: Eversource easement lines, structures, transmission lines provided by Eversource Energy. Wetlands/watercourses delineated and verified by Stantec, October 2021.
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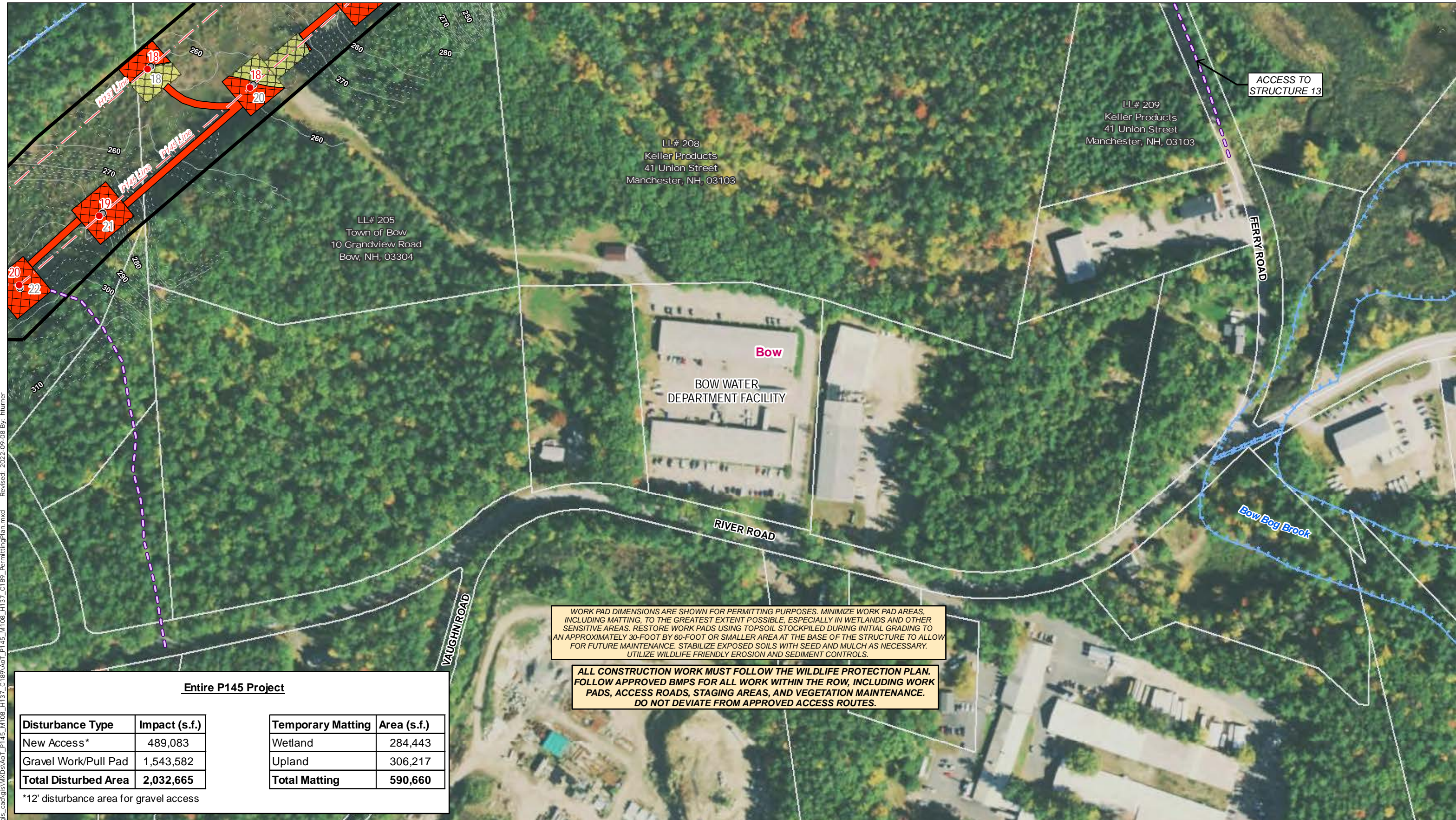
EVERSOURCE ENERGY **Stantec**

P145 Rebuild & H137/M108/C189 Structure Replacement Alteration of Terrain Permitting Map Set

Bow, NH	MAP SHEET
Date: September 08, 2022	20 of 23

STATE OF NEW HAMPSHIRE
 MATTHEW ARSENAULT
 No. 278
 CERTIFIED WETLAND SCIENTIST

V:\195\active\195602232\03_data\gis_cad\gis\W\K\A\T_P145_M108_H137_C189\AoT_P145_M108_H137_C189_PermittingPlan.mxd Revised: 2022-09-08 By: hturner

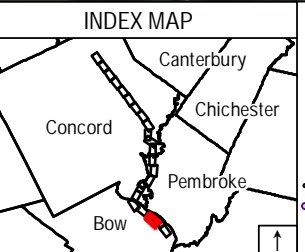


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Entire P145 Project		Temporary Matting	
Disturbance Type	Impact (s.f.)	Area (s.f.)	Area (s.f.)
New Access*	489,083	Wetland	284,443
Gravel Work/Pull Pad	1,543,582	Upland	306,217
Total Disturbed Area	2,032,665	Total Matting	590,660

*12' disturbance area for gravel access



Legend

- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Overhead Distribution Line
- Underground Distribution Line
- Existing Right-of-Way (ROW)
- Existing Access
- Off-ROW Access Pending Rights
- Suggested Erosion and Sediment Control (TYP)
- AoT Disturbance Area - New Access
- AoT Disturbance Area - Pad
- Temporary Construction Matting
- Existing Gravel
- Eversource Owned Property
- State Owned Land
- LLN/Property Owner
- Parcel Boundary
- Municipal Boundary
- 2' Contours
- 10' Contours
- Potential Vernal Pool
- Potential Vernal Pool Extent
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Delineated Wetland Boundary
- Field Delineated Wetland
- Priority Resource Area
- Open Water
- FEMA 100-Year Flood Zone
- Floodway
- Berm
- NHDES Protected Shoreland
- Rail Road
- Approximate Gas Line
- Fence
- Stone Wall
- Gate
- Culvert
- Rare Species

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0 50 100 200 Feet

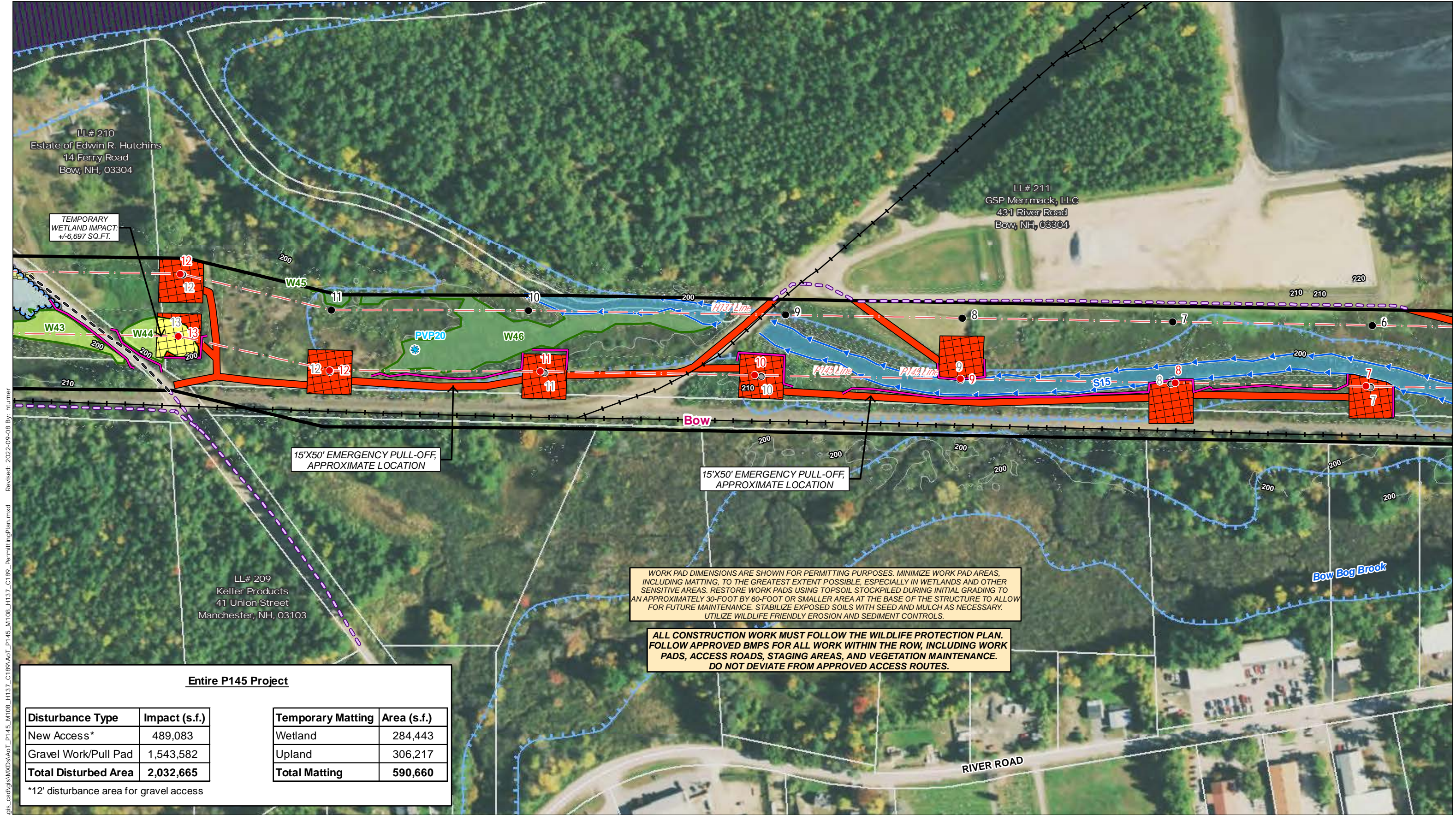
EVERSOURCE ENERGY **Stantec**

P145 Rebuild & H137/M108/C189 Structure Replacement Alteration of Terrain Permitting Map Set

Bow, NH MAP SHEET

Date: September 08, 2022

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 Revised: 2022-09-08 By: hturner

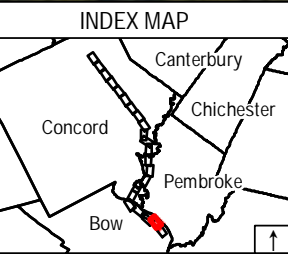
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Entire P145 Project

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Gravel Work/Pull Pad	1,543,582	Upland	306,217
Total Disturbed Area	2,032,665	Total Matting	590,660

*12' disturbance area for gravel access



Legend

<ul style="list-style-type: none"> ● Existing Structure ● Existing Structure to be Removed ● Proposed Structure — Overhead Eversource Line — Overhead Distribution Line — Underground Distribution Line — Existing Right-of-Way (ROW) — Existing Access — Off-ROW Access Pending Rights — Suggested Erosion and Sediment Control (TYP) 	<ul style="list-style-type: none"> ■ AoT Disturbance Area - New Access ■ AoT Disturbance Area - Pad ■ Temporary Construction Matting ■ Existing Gravel ■ Eversource Owned Property ■ State Owned Land ■ LLN/Property Owner — Parcel Boundary — Municipal Boundary — 2' Contours — 10' Contours 	<ul style="list-style-type: none"> ● Potential Vernal Pool ■ Potential Vernal Pool Extent — Delineated Perennial Stream — Delineated Intermittent Stream — Delineated Ephemeral Stream — Delineated Wetland Boundary — Field Delineated Wetland — Priority Resource Area — Open Water 	<ul style="list-style-type: none"> ■ FEMA 100-Year Flood Zone — Floodway — Berm — NHDES Protected Shoreland — Rail Road — GAS Approximate Gas Line — X-X Fence — Stone Wall — Gate — Culvert 	<ul style="list-style-type: none"> ● Rare Species ● Rare Species ● Dry Land Sedge
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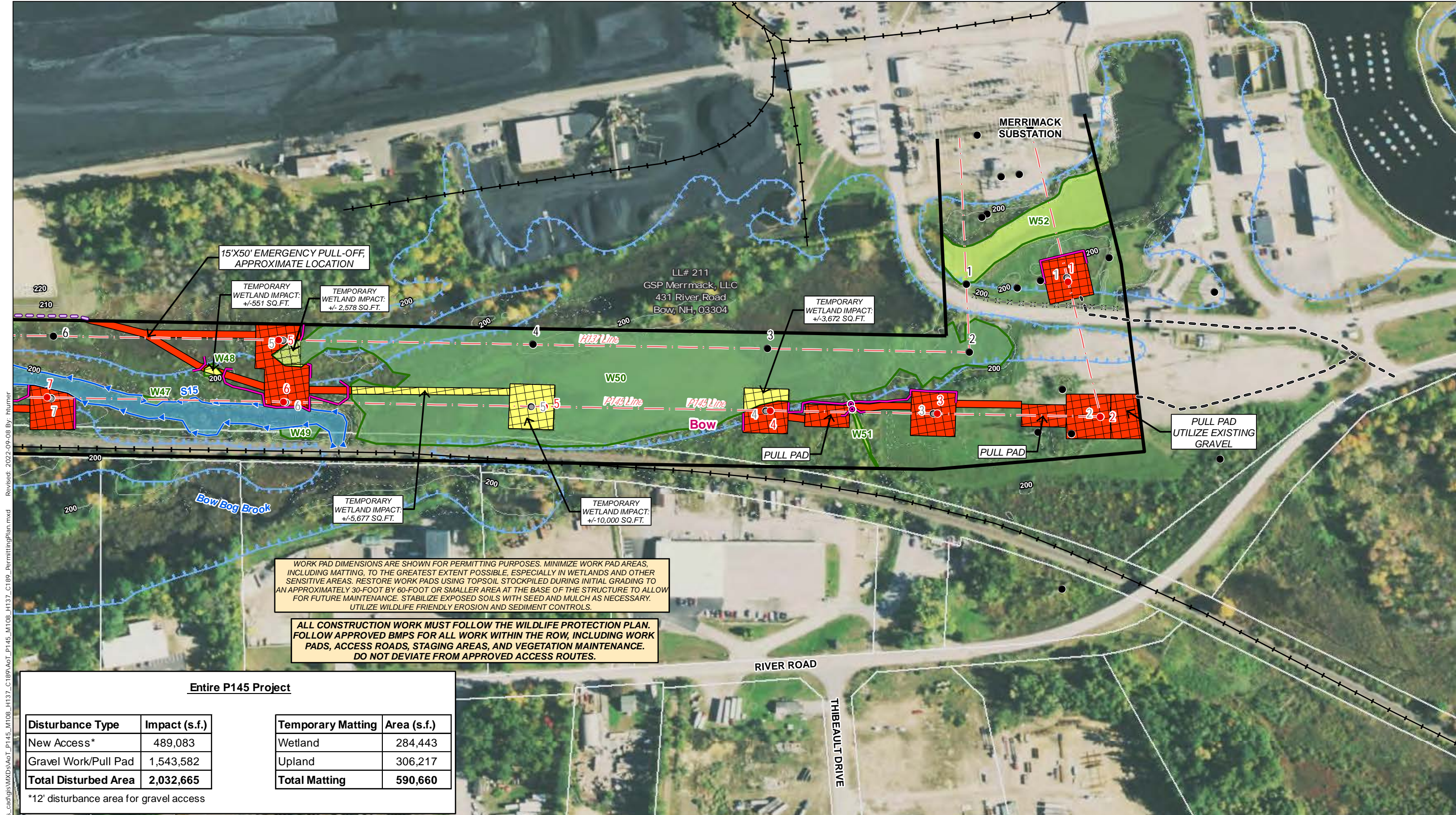
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EVERSOURCE ENERGY **Stantec**

**P145 Rebuild & H137/M108/C189 Structure Replacement
Alteration of Terrain
Permitting Map Set**

Bow, NH	MAP SHEET
Date: September 08, 2022	22 of 23



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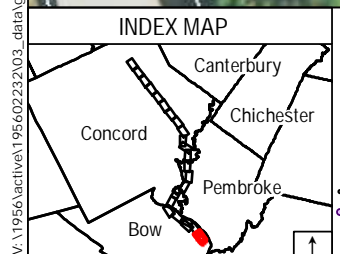
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Entire P145 Project

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New Access*	489,083
Gravel Work/Pull Pad	1,543,582
Total Disturbed Area	2,032,665

*12' disturbance area for gravel access

Temporary Matting	Area (s.f.)
Wetland	284,443
Upland	306,217
Total Matting	590,660



Legend

- Existing Structure
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- Open Water
- FEMA 100-Year Flood Zone
- Floodway
- Berm
- NHDES Protected Shoreland
- Rail Road
- Approximate Gas Line
- Fence
- Stone Wall
- Gate
- Culvert
- Rare Species

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1 inch = 200 feet

0 50 100 200 Feet

EVERSOURCE ENERGY **Stantec**

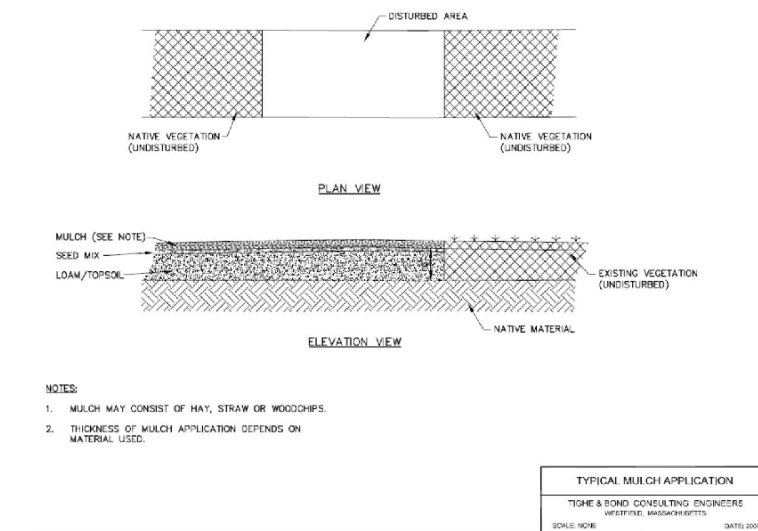
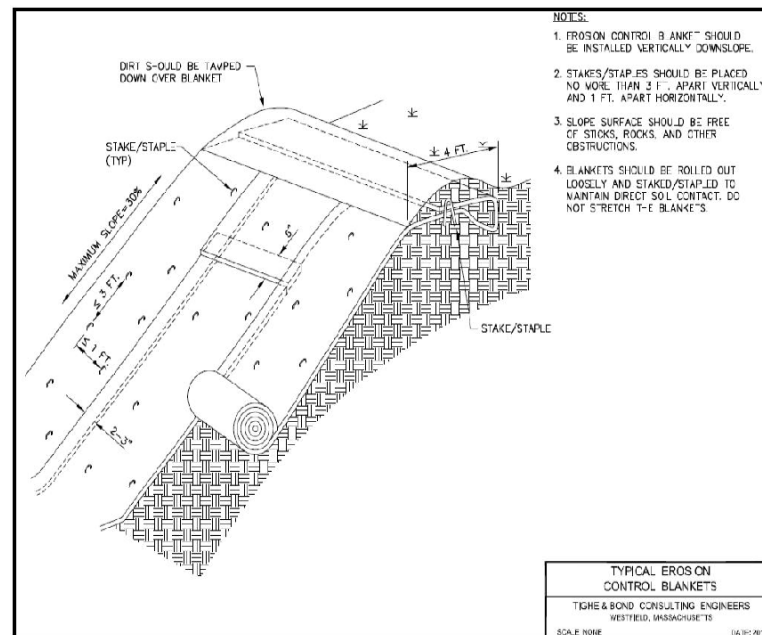
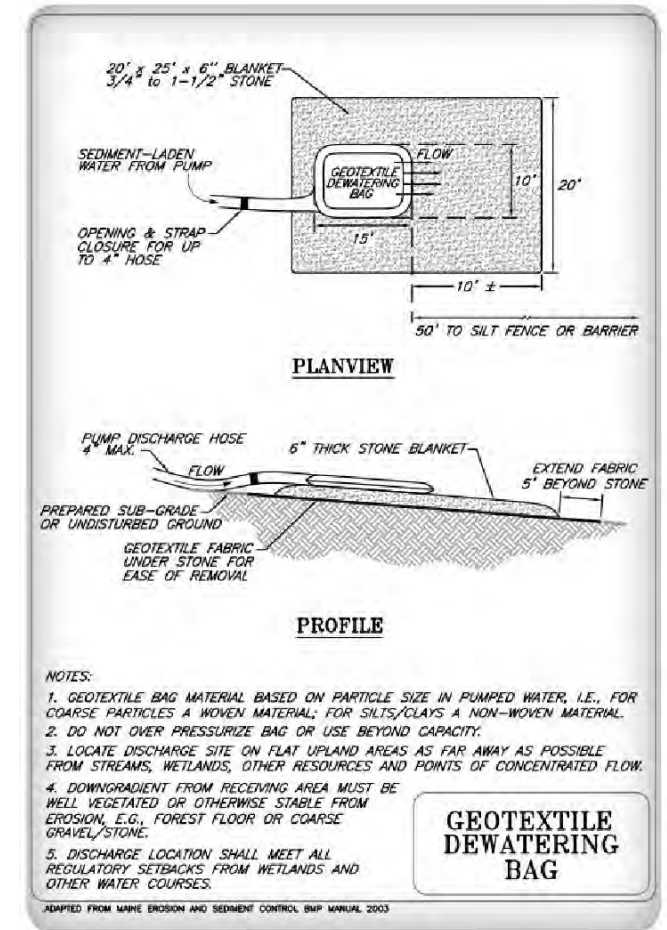
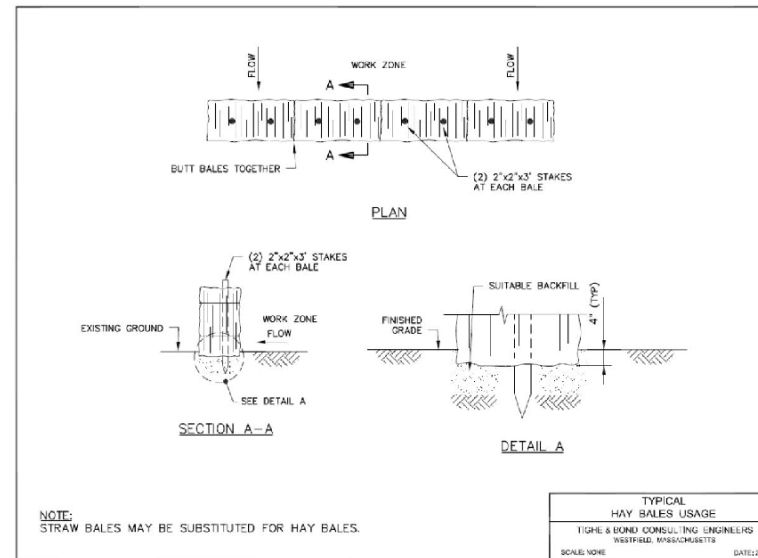
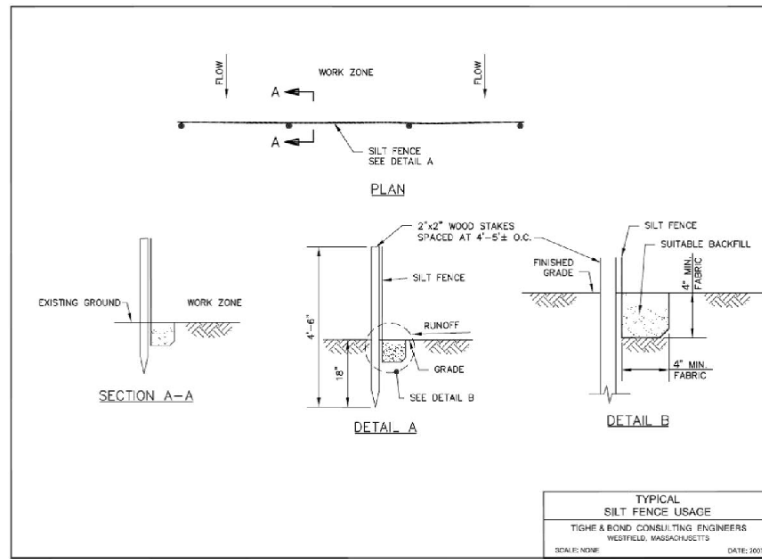
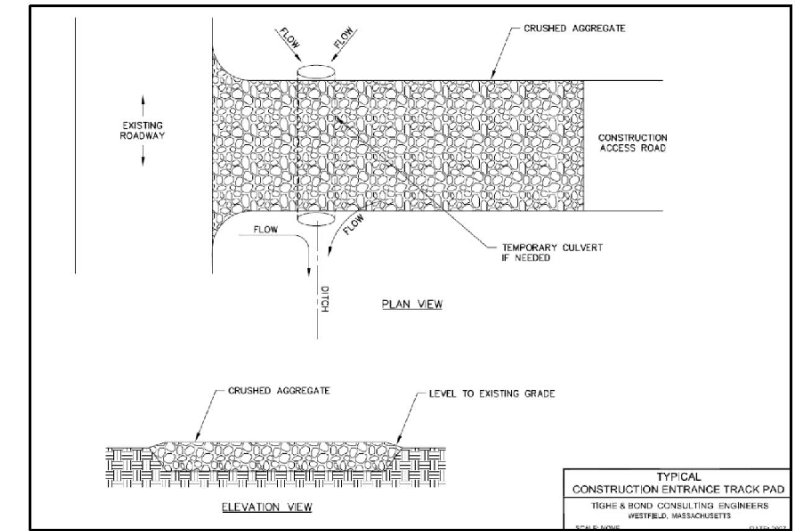
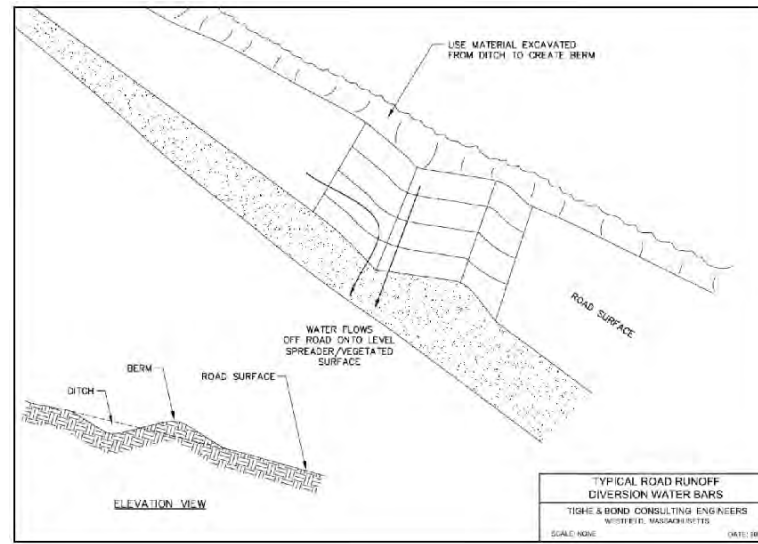
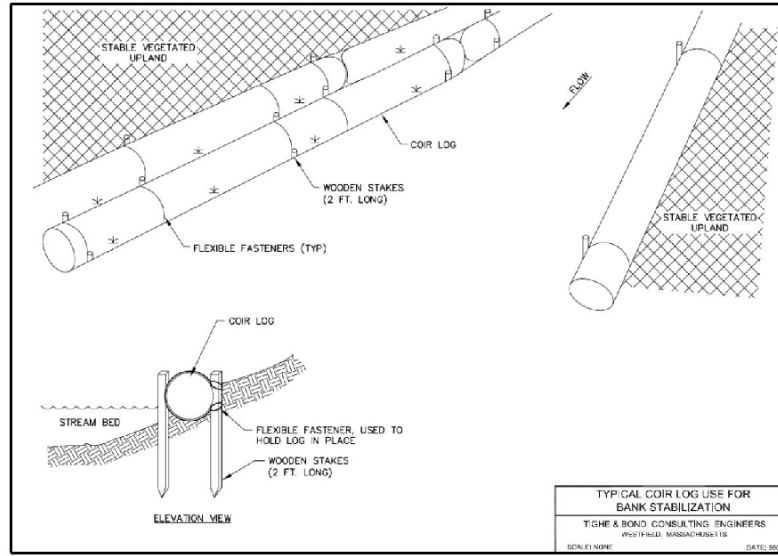
P145 Rebuild & H137/M108/C189 Structure Replacement Alteration of Terrain Permitting Map Set

Bow, NH MAP SHEET

Date: September 08, 2022

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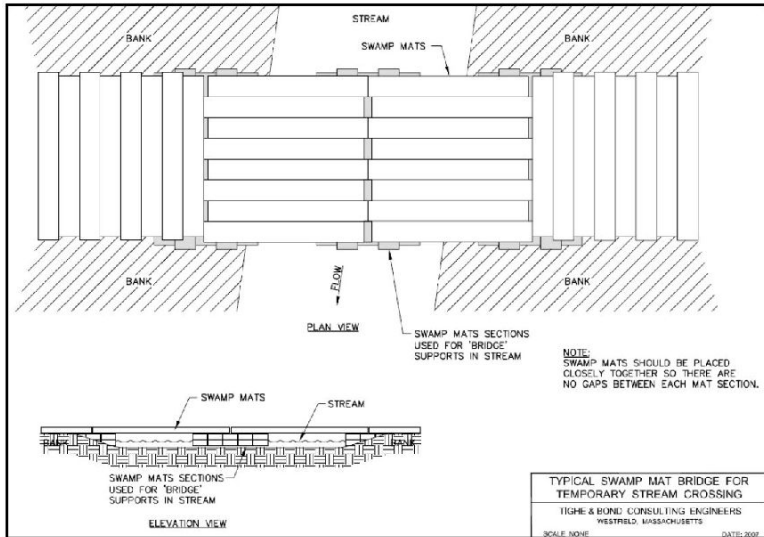
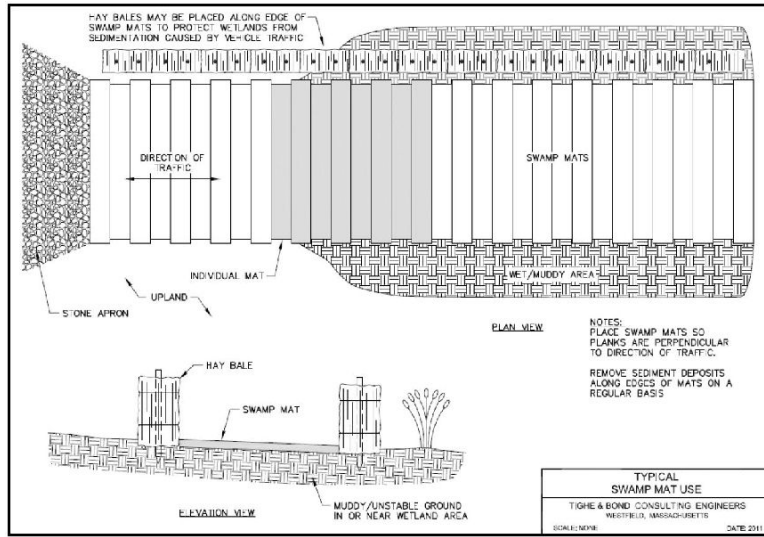


**P145 Rebuild and H137/M108/
 C189 Structure Replacement**
 Alteration of Terrain
 Concord, Pembroke, Bow, New
 Hampshire
 Notes and Details
 Page 2 of 3

EVERSOURCE
 ENERGY

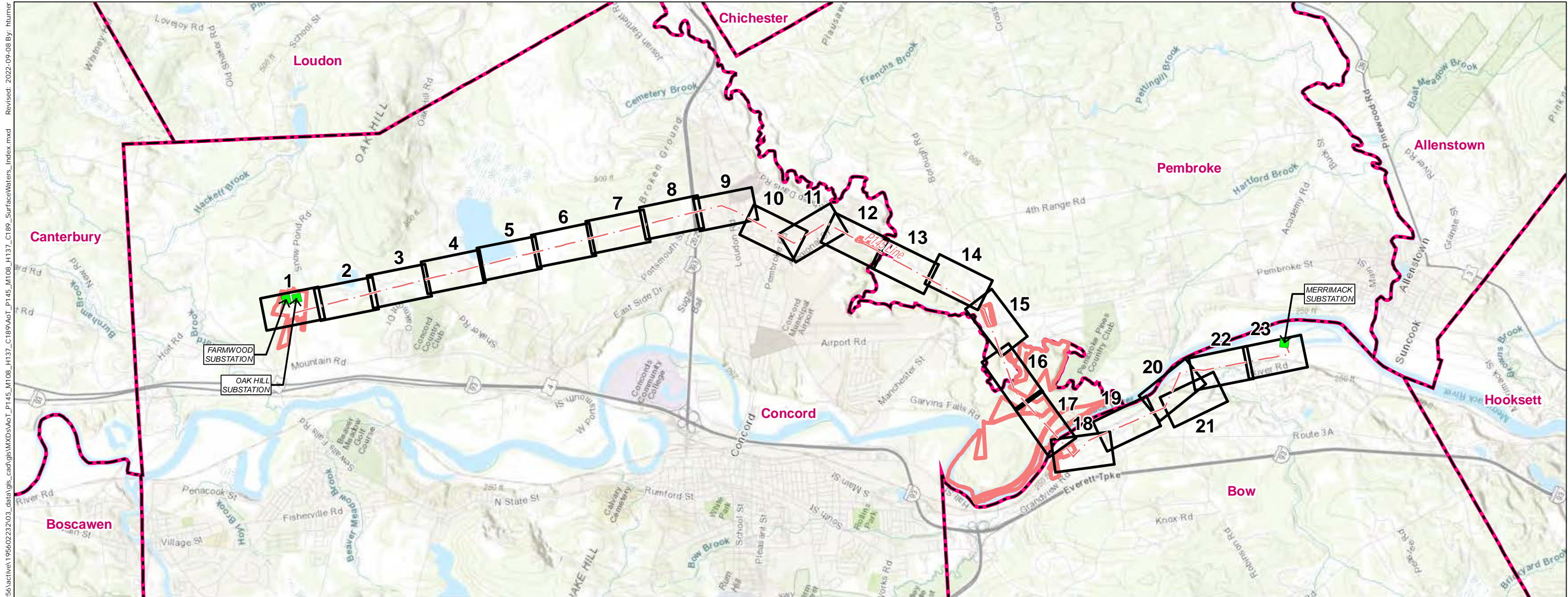
Stantec

September 8, 2022



P145 Rebuild and H137/M108/C189 Structure Replacement

Concord, Pembroke, Bow, NH
 Surface Water and Groundwater Overlay Plans
 Date: September 08, 2022

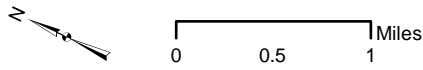


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- Legend**
- Substation
 - - - Overhead Eversource Line
 - Map Sheet
 - Eversource Owned Property
 - Municipal Boundary

PREPARED FOR:
EVERSOURCE
 ENERGY

107 Selden Street
 Berlin, CT 06037

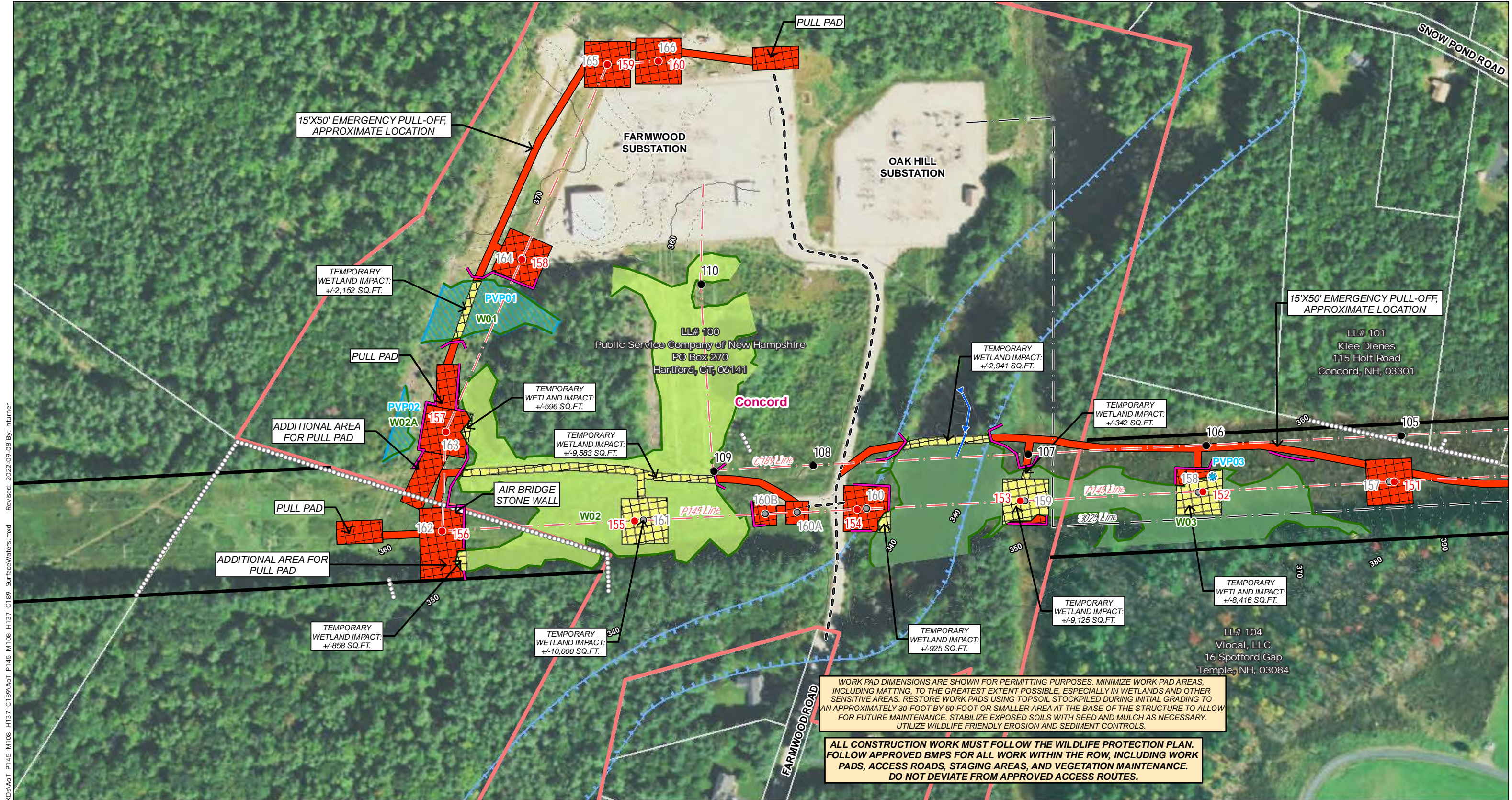


INDEX OF FIGURES
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 Notes & Details 1-3

NO.	DATE	REVISIONS

PREPARED BY:
Stantec

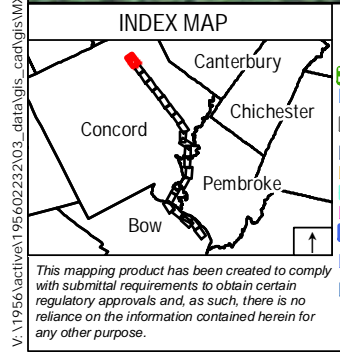
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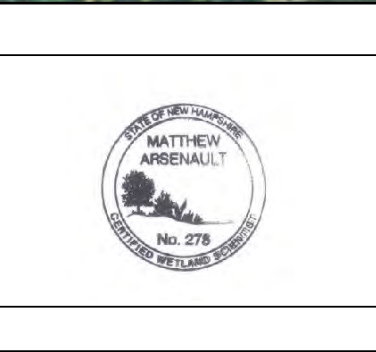
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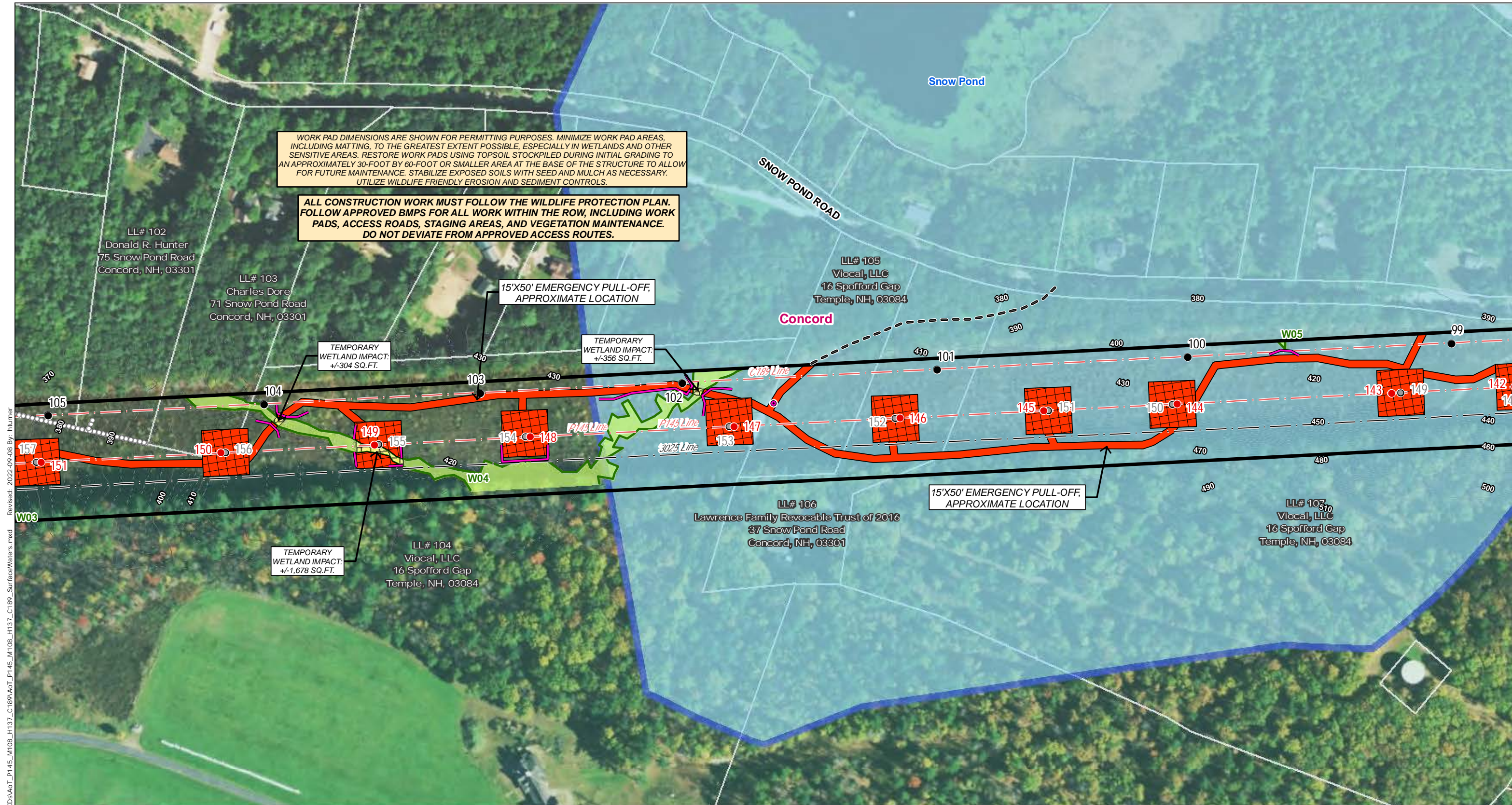


Legend	
	Local Potential Contamination Sources
	Wellhead Protection Areas
	Class A Surface Waters RSA 485A9 (none)
	Coastal and Great Bay Region Communities (none)
	Designated Rivers Quartermile Buffer (none)
	Groundwater Classification Areas GA1 (none)
	Groundwater Classification Areas GA2
	Groundwater Classification Areas GAA
	All Lakes with a Quarter Mile Buffer
	Class A Surface Waters RSA 485A9 Lakes Only Quarter Mile Buffer (none)
	Outstanding Resource Water Watersheds (none)
	Surface Waters with Impairments 2016 with Quarter Mile Buffer
	Water Supply Intake Protection Areas (none)
	Watersheds with Chloride Impairments 2016
	Existing Structure
	Existing Structure to be Removed
	Proposed Structure
	Overhead Eversource Line
	Overhead Distribution Line
	Existing Right-of-Way (ROW)
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	Existing Gravel
	Stone Work Pad
	Eversource Owned Property
	State Owned Land
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	Municipal Boundary
	FEMA 100-Year Flood Zone
	Floodway
	2' Contours
	10' Contours
	Potential Vernal Pool
	Potential Vernal Pool Extent
	Delineated Perennial Stream
	Delineated Intermittent Stream
	Delineated Ephemeral Stream
	Delineated Wetland Boundary
	Field Delineated Wetland
	Priority Resource Area
	Open Water
	NHDES Protected Shoreland
	Rail Road
	GAS Approximate Gas Line
	Fence
	Berm
	Stone Wall (NPT)
	Gate
	Culvert
	Rare Species

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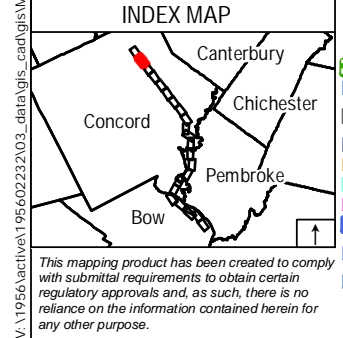
P145 Rebuild & H137/M108/C189 Structure Replacement Alteration of Terrain Surface Water and Groundwater Overlay Plans	
Concord, NH	MAP SHEET
Date: September 08, 2022	1 of 23



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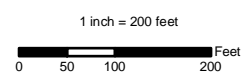
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V:\195\active\195\0223203_data\gis\w\KDS\AoT_P145_M108_H137_C189\AoT_P145_M108_H137_C189_SurfaceWaters.mxd Revised: 2022-09-08 By: hturner



- Legend**
- ▲ Local Potential Contamination Sources
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 - Class A Surface Waters RSA 485A9 (none)
 - Coastal and Great Bay Region Communities (none)
 - Designated Rivers Quartermile Buffer (none)
 - Groundwater Classification Areas GA1 (none)
 - Groundwater Classification Areas GA2
 - Groundwater Classification Areas GAA
 - All Lakes with a Quarter Mile Buffer
 - Class A Surface Waters RSA 485A9 Lakes Only
 - Quarter Mile Buffer (none)
 - Outstanding Resource Water Watersheds (none)
 - Surface Waters with Impairments 2016 with Quarter Mile Buffer
 - Water Supply Intake Protection Areas (none)
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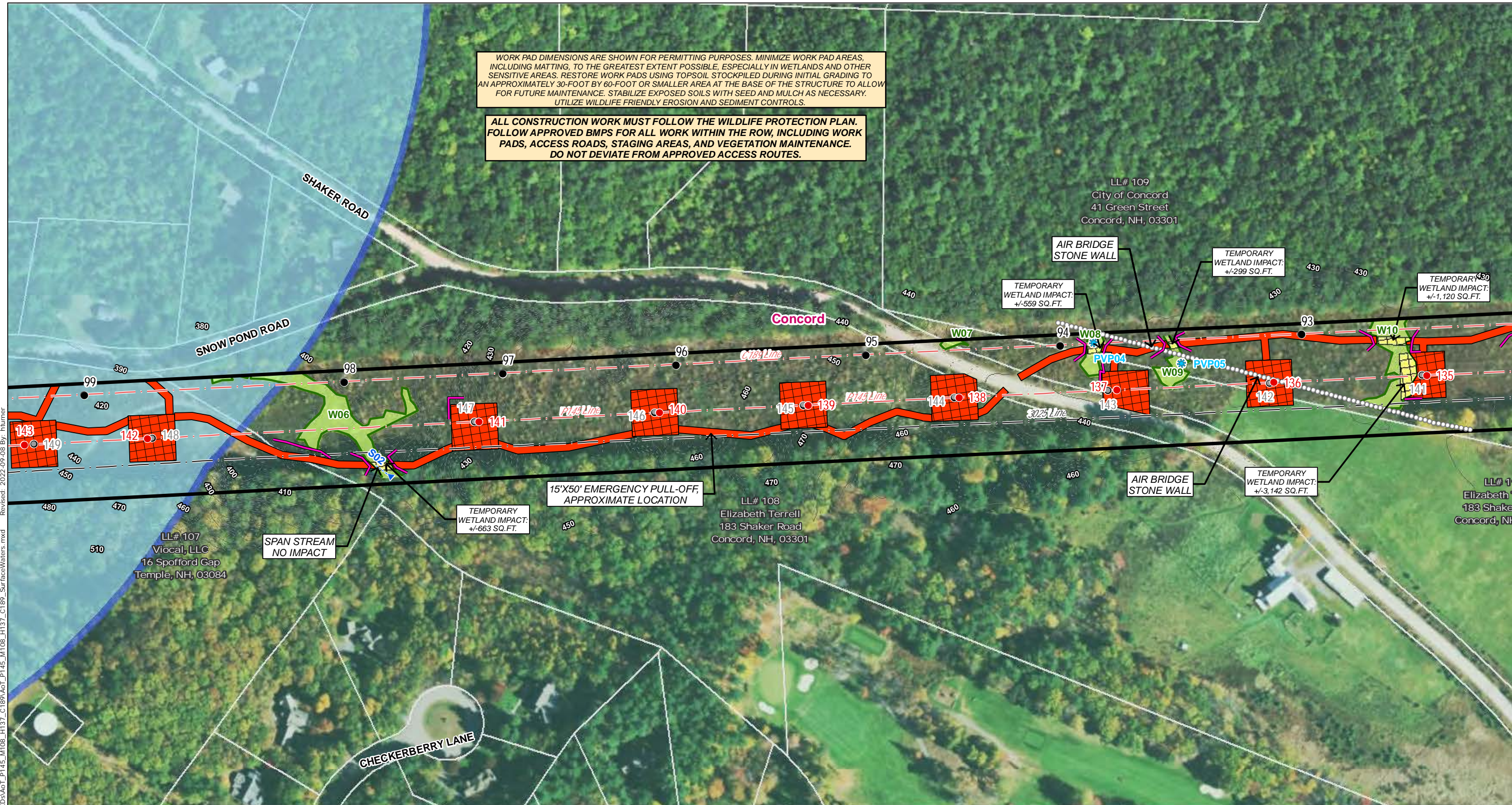
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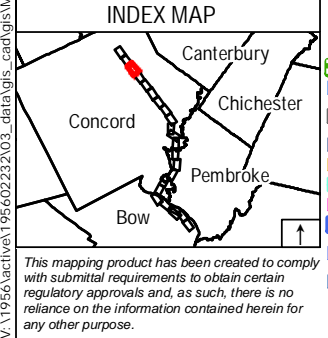
P145 Rebuild & H137/M108/C189 Structure Replacement Alteration of Terrain Surface Water and Groundwater Overlay Plans	
Concord, NH	MAP SHEET
Date: September 08, 2022	2 of 23

WORK PAD DIMENSIONS ARE SHOWN FOR PERMITTING PURPOSES. MINIMIZE WORK PAD AREAS, INCLUDING MATTING, TO THE GREATEST EXTENT POSSIBLE, ESPECIALLY IN WETLANDS AND OTHER SENSITIVE AREAS. RESTORE WORK PADS USING TOPSOIL STOCKPILED DURING INITIAL GRADING TO AN APPROXIMATELY 30-FOOT BY 60-FOOT OR SMALLER AREA AT THE BASE OF THE STRUCTURE TO ALLOW FOR FUTURE MAINTENANCE. STABILIZE EXPOSED SOILS WITH SEED AND MULCH AS NECESSARY. UTILIZE WILDLIFE FRIENDLY EROSION AND SEDIMENT CONTROLS.

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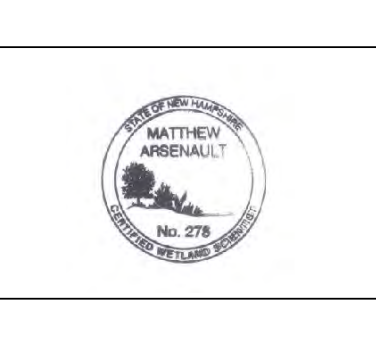


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 Revised: 2022-09-08 By: hturner

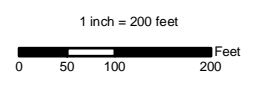


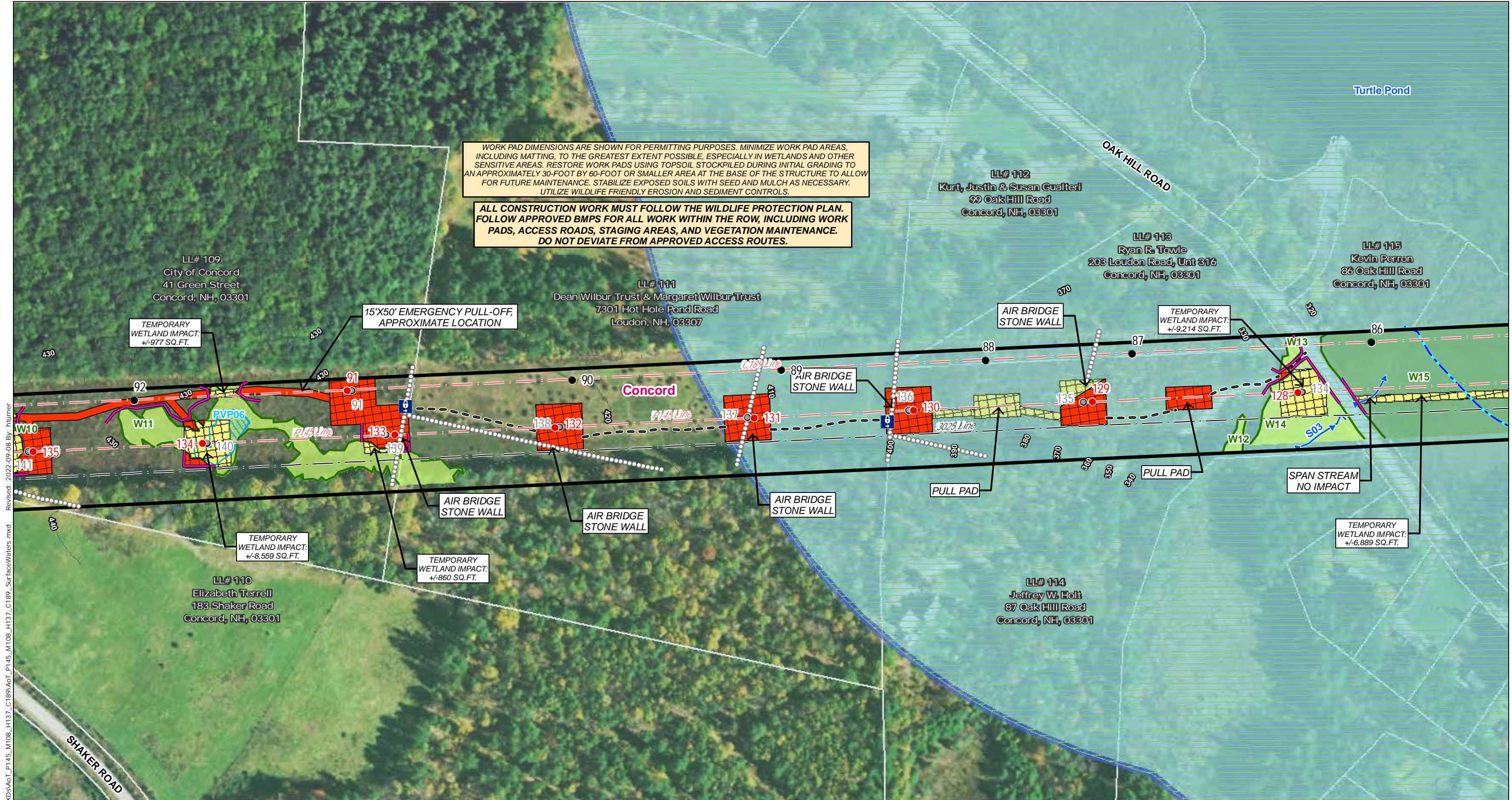
Legend	
	Local Potential Contamination Sources
	Wellhead Protection Areas
	Class A Surface Waters RSA 485A9 (none)
	Coastal and Great Bay Region Communities (none)
	Designated Rivers Quartermile Buffer (none)
	Groundwater Classification Areas GA1 (none)
	Groundwater Classification Areas GA2
	Groundwater Classification Areas GAA
	All Lakes with a Quarter Mile Buffer
	Class A Surface Waters RSA 485A9 Lakes Only Quarter Mile Buffer (none)
	Outstanding Resource Water Watersheds (none)
	Existing Structure
	Proposed Structure
	Overhead Eversource Line
	Overhead Distribution Line
	Underground Distribution Line
	Existing Right-of-Way (ROW)
	Off-ROW Access Pending Rights
	Existing Access
	Suggested Erosion and Sediment Control (TYP)
	AoT Disturbance Area - Pad
	AoT Disturbance Area - New Access
	Temporary Construction Matting
	Existing Gravel
	Stone Work Pad
	Eversource Owned Property
	State Owned Land
	LLN/Property Owner
	Parcel Boundary
	Municipal Boundary
	FEMA 100-Year Flood Zone
	Floodway
	2' Contours
	10' Contours
	Potential Vernal Pool
	Potential Vernal Pool Extent
	Delineated Perennial Stream
	Delineated Intermittent Stream
	Delineated Ephemeral Stream
	Delineated Wetland Boundary
	Field Delineated Wetland
	Priority Resource Area
	Open Water
	NHDES Protected Shoreland
	Rail Road
	GAS Approximate Gas Line
	Fence
	Berm
	Stone Wall (NPT)
	Gate
	Culvert
	Rare Species

Map Notes:
 Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
 Data source: Eversource easement lines, structures, transmission lines provided by Eversource Energy. Wetlands/watercourses delineated and verified by Stantec October 2021.
 Additional source include: NH Granit
 Basemap: National Agriculture Imagery Program (NAIP) aerial imagery

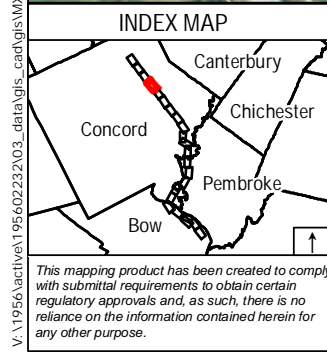


P145 Rebuild & H137/M108/C189 Structure Replacement Alteration of Terrain Surface Water and Groundwater Overlay Plans	
Concord, NH	MAP SHEET
Date: September 08, 2022	3 of 23



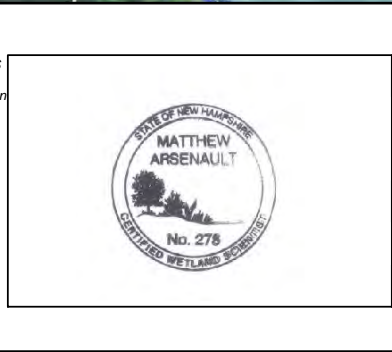


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 Revised: 2022-09-08 By: hturner

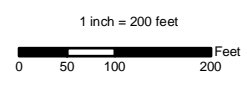


Legend	
	Local Potential Contamination Sources
	Wellhead Protection Areas
	Class A Surface Waters RSA 485A9 (none)
	Coastal and Great Bay Region Communities (none)
	Designated Rivers Quartermile Buffer (none)
	Groundwater Classification Areas GA1 (none)
	Groundwater Classification Areas GA2
	Groundwater Classification Areas GAA
	All Lakes with a Quarter Mile Buffer
	Class A Surface Waters RSA 485A9 Lakes Only Quarter Mile Buffer (none)
	Outstanding Resource Water Watersheds (none)
	Existing Structure
	Proposed Structure
	Overhead Eversource Line
	Overhead Distribution Line
	Existing Right-of-Way (ROW)
	Off-ROW Access Pending Rights
	Existing Access
	Suggested Erosion and Sediment Control (TYP)
	AoT Disturbance Area - Pad
	AoT Disturbance Area - New Access
	Temporary Construction Matting
	Existing Gravel
	Stone Work Pad
	State Owned Property
	State Owned Land
	LLN/Property Owner
	Parcel Boundary
	Municipal Boundary
	FEMA 100-Year Flood Zone
	Floodway
	2' Contours
	10' Contours
	Potential Vernal Pool
	Potential Vernal Pool Extent
	Delineated Perennial Stream
	Delineated Intermittent Stream
	Delineated Ephemeral Stream
	Delineated Wetland Boundary
	Field Delineated Wetland
	Priority Resource Area
	Open Water
	NHDES Protected Shoreland
	Rail Road
	GAS Approximate Gas Line
	Fence
	Existing Structure
	Existing Structure to be Removed
	Berm
	Stone Wall (NPT)
	Gate
	Culvert
	Rare Species

Map Notes:
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 Additional source include: NH Granit
 Basemap: National Agriculture Imagery Program (NAIP) aerial imagery



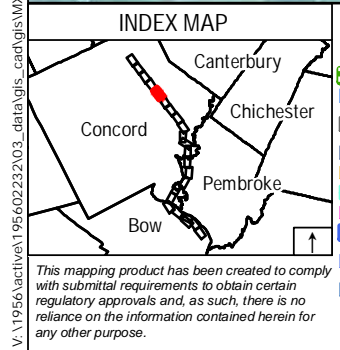
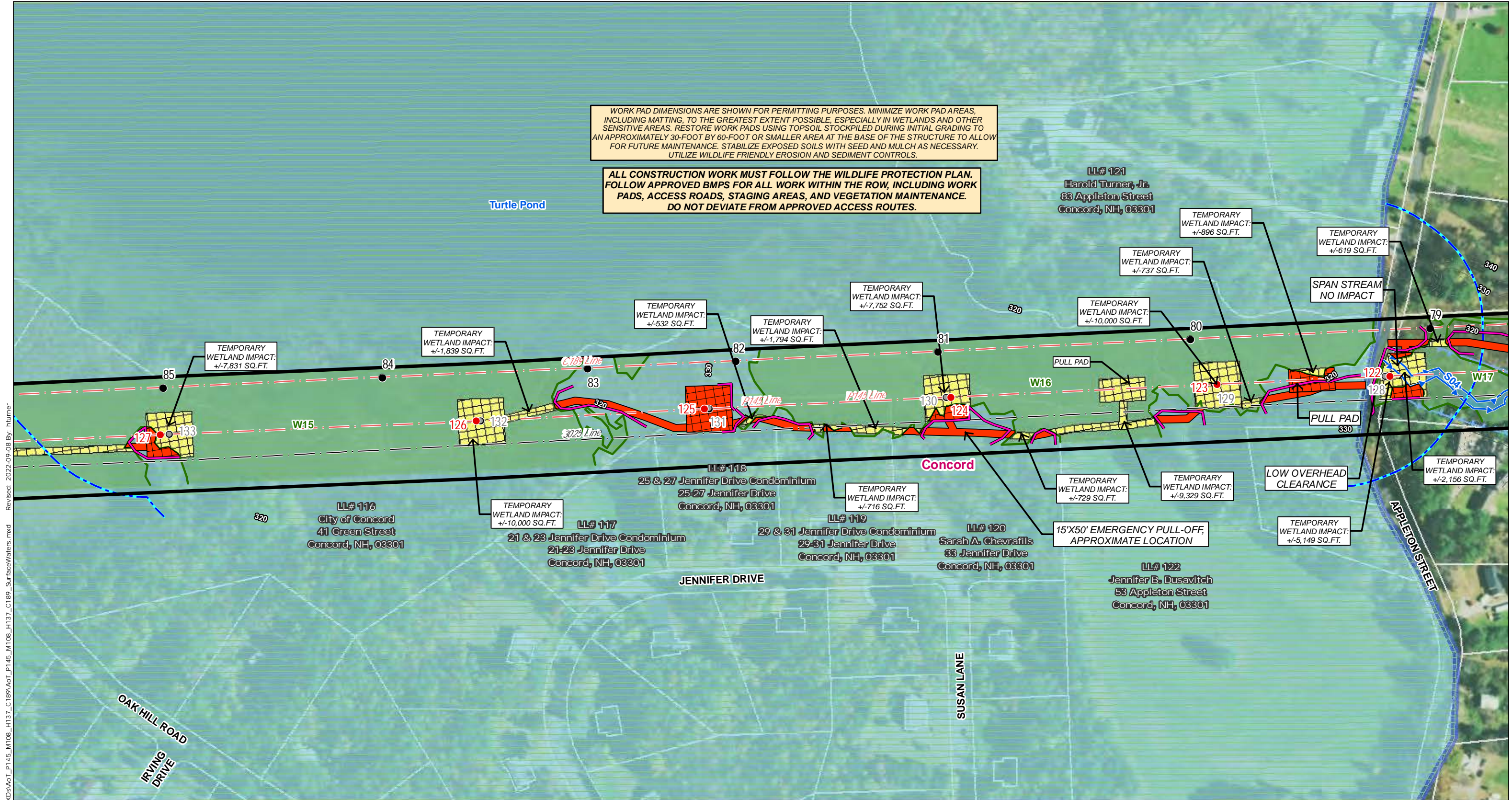
P145 Rebuild & H137/M108/C189 Structure Replacement Alteration of Terrain Surface Water and Groundwater Overlay Plans	
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 Revised: 2022-09-08 By: hturner

WORK PAD DIMENSIONS ARE SHOWN FOR PERMITTING PURPOSES. MINIMIZE WORK PAD AREAS, INCLUDING MATTING, TO THE GREATEST EXTENT POSSIBLE, ESPECIALLY IN WETLANDS AND OTHER SENSITIVE AREAS. RESTORE WORK PADS USING TOPSOIL STOCKPILED DURING INITIAL GRADING TO AN APPROXIMATELY 30-FOOT BY 60-FOOT OR SMALLER AREA AT THE BASE OF THE STRUCTURE TO ALLOW FOR FUTURE MAINTENANCE. STABILIZE EXPOSED SOILS WITH SEED AND MULCH AS NECESSARY. UTILIZE WILDLIFE FRIENDLY EROSION AND SEDIMENT CONTROLS.

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Legend

	Local Potential Contamination Sources
	Wellhead Protection Areas
	Class A Surface Waters RSA 485A9 (none)
	Coastal and Great Bay Region Communities (none)
	Designated Rivers Quartermile Buffer (none)
	Groundwater Classification Areas GA1 (none)
	Groundwater Classification Areas GA2
	Groundwater Classification Areas GAA
	All Lakes with a Quarter Mile Buffer
	Class A Surface Waters RSA 485A9 Lakes Only Quarter Mile Buffer (none)
	Outstanding Resource Water Watersheds (none)

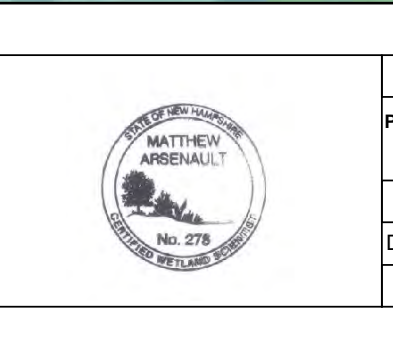
	Surface Waters with Impairments 2016 with Quarter Mile Buffer
	Water Supply Intake Protection Areas (none)
	Watersheds with Chloride Impairments 2016
	Existing Structure
	Existing Structure to be Removed
	Proposed Structure
	Overhead Eversource Line
	Overhead Distribution Line
	Underground Distribution Line
	Existing Right-of-Way (ROW)
	Off-ROW Access Pending Rights
	Existing Access
	Suggested Erosion and Sediment Control (TYP)

	AoT Disturbance Area - Pad
	AoT Disturbance Area - New Access
	Temporary Construction Matting
	Existing Gravel
	Stone Work Pad
	Eversource Owned Property
	State Owned Land
	LLN/Property Owner
	Parcel Boundary
	Municipal Boundary
	FEMA 100-Year Flood Zone
	Floodway
	2' Contours
	10' Contours

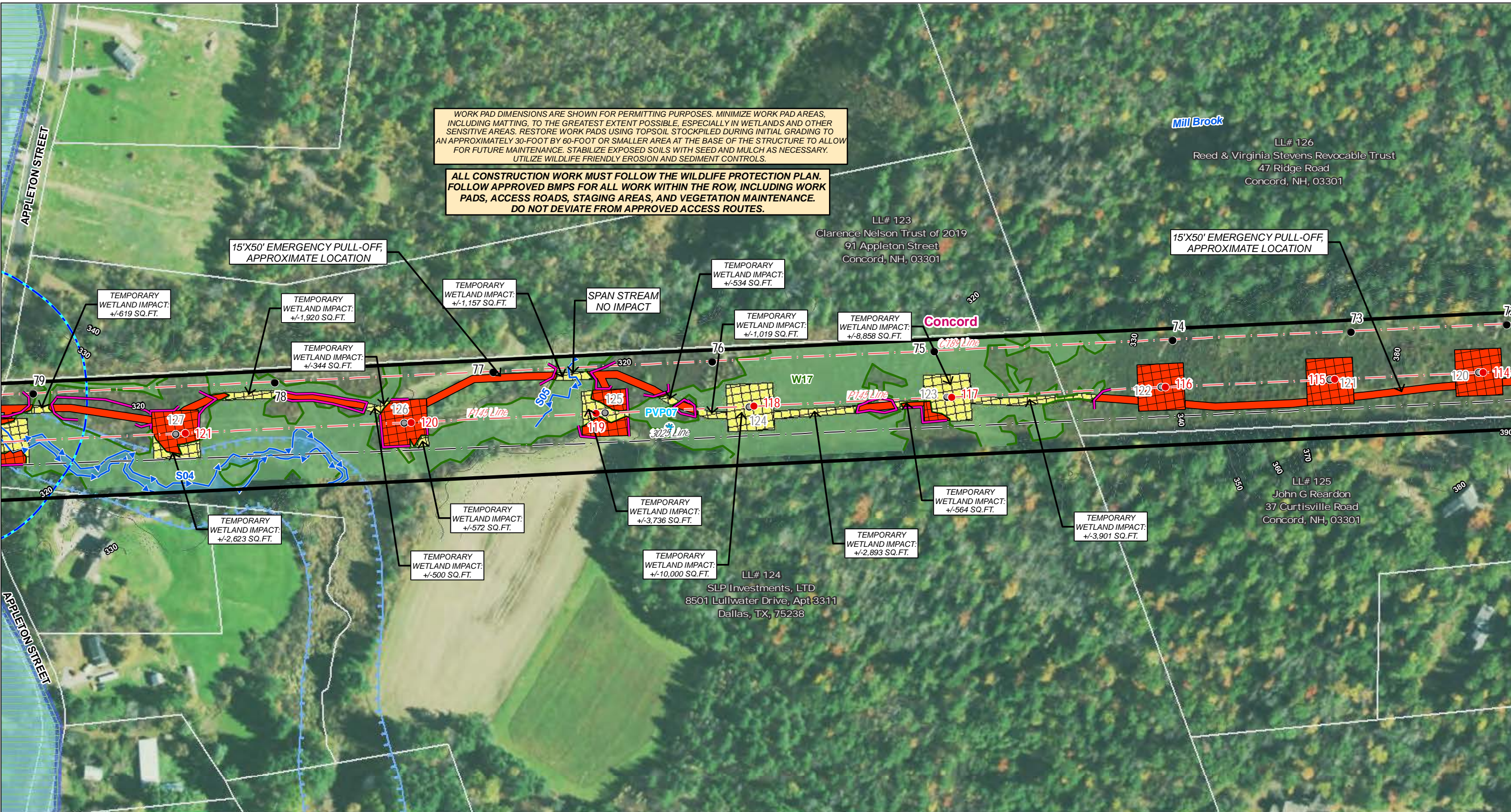
	Potential Vernal Pool
	Potential Vernal Pool Extent
	Delineated Perennial Stream
	Delineated Intermittent Stream
	Delineated Ephemeral Stream
	Delineated Wetland Boundary
	Field Delineated Wetland
	Priority Resource Area
	Open Water
	NHDES Protected Shoreland
	Rail Road
	GAS Approximate Gas Line
	Fence

	Berm
	Stone Wall (NPT)
	Gate
	Culvert
	Rare Species

Map Notes:
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P145 Rebuild & H137/M108/C189 Structure Replacement Alteration of Terrain Surface Water and Groundwater Overlay Plans	
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WORK PAD DIMENSIONS ARE SHOWN FOR PERMITTING PURPOSES. MINIMIZE WORK PAD AREAS, INCLUDING MATTING, TO THE GREATEST EXTENT POSSIBLE, ESPECIALLY IN WETLANDS AND OTHER SENSITIVE AREAS. RESTORE WORK PADS USING TOPSOIL STOCKPILED DURING INITIAL GRADING TO AN APPROXIMATELY 30-FOOT BY 60-FOOT OR SMALLER AREA AT THE BASE OF THE STRUCTURE TO ALLOW FOR FUTURE MAINTENANCE. STABILIZE EXPOSED SOILS WITH SEED AND MULCH AS NECESSARY. UTILIZE WILDLIFE FRIENDLY EROSION AND SEDIMENT CONTROLS.

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LL# 126
Reed & Virginia Stevens Revocable Trust
47 Ridge Road
Concord, NH, 03301

LL# 123
Clarence Nelson Trust of 2019
91 Appleton Street
Concord, NH, 03301

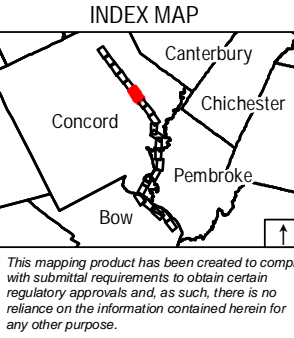
15'X50' EMERGENCY PULL-OFF, APPROXIMATE LOCATION

15'X50' EMERGENCY PULL-OFF, APPROXIMATE LOCATION

LL# 125
John G Reardon
37 Curtisville Road
Concord, NH, 03301

LL# 124
SLP Investments, LTD
8501 Lullwater Drive, Apt 3311
Dallas, TX, 75238

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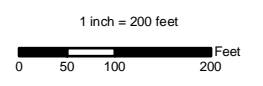


- Legend**
- ▲ Local Potential Contamination Sources
 - Wellhead Protection Areas
 - Class A Surface Waters RSA 485A9 (none)
 - Coastal and Great Bay Region Communities (none)
 - Designated Rivers Quartermile Buffer (none)
 - Groundwater Classification Areas GA1 (none)
 - Groundwater Classification Areas GA2
 - Groundwater Classification Areas GAA
 - All Lakes with a Quarter Mile Buffer
 - Class A Surface Waters RSA 485A9 Lakes Only Quarter Mile Buffer (none)
 - Outstanding Resource Water Watersheds (none)
 - AoT Disturbance Area - Pad
 - AoT Disturbance Area - New Access
 - Temporary Construction Matting
 - Existing Gravel
 - Stone Work Pad
 - Eversource Owned Property
 - State Owned Land
 - LLN/Property Owner
 - Parcel Boundary
 - Municipal Boundary
 - FEMA 100-Year Flood Zone
 - Floodway
 - 2' Contours
 - 10' Contours
 - Existing Structure
 - Existing Structure to be Removed
 - Proposed Structure
 - Overhead Eversource Line
 - Overhead Distribution Line
 - Underground Distribution Line
 - Existing Right-of-Way (ROW)
 - Off-ROW Access Pending Rights
 - Existing Access
 - Suggested Erosion and Sediment Control (TYP)
 - * Potential Vernal Pool
 - Potential Vernal Pool Extent
 - Delineated Perennial Stream
 - Delineated Intermittent Stream
 - Delineated Ephemeral Stream
 - Delineated Wetland Boundary
 - Field Delineated Wetland
 - Priority Resource Area
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 - NHDES Protected Shoreland
 - Rail Road
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 - Fence
 - Berm
 - Stone Wall (NPT)
 - Gate
 - Culvert
 - Rare Species

Map Notes:
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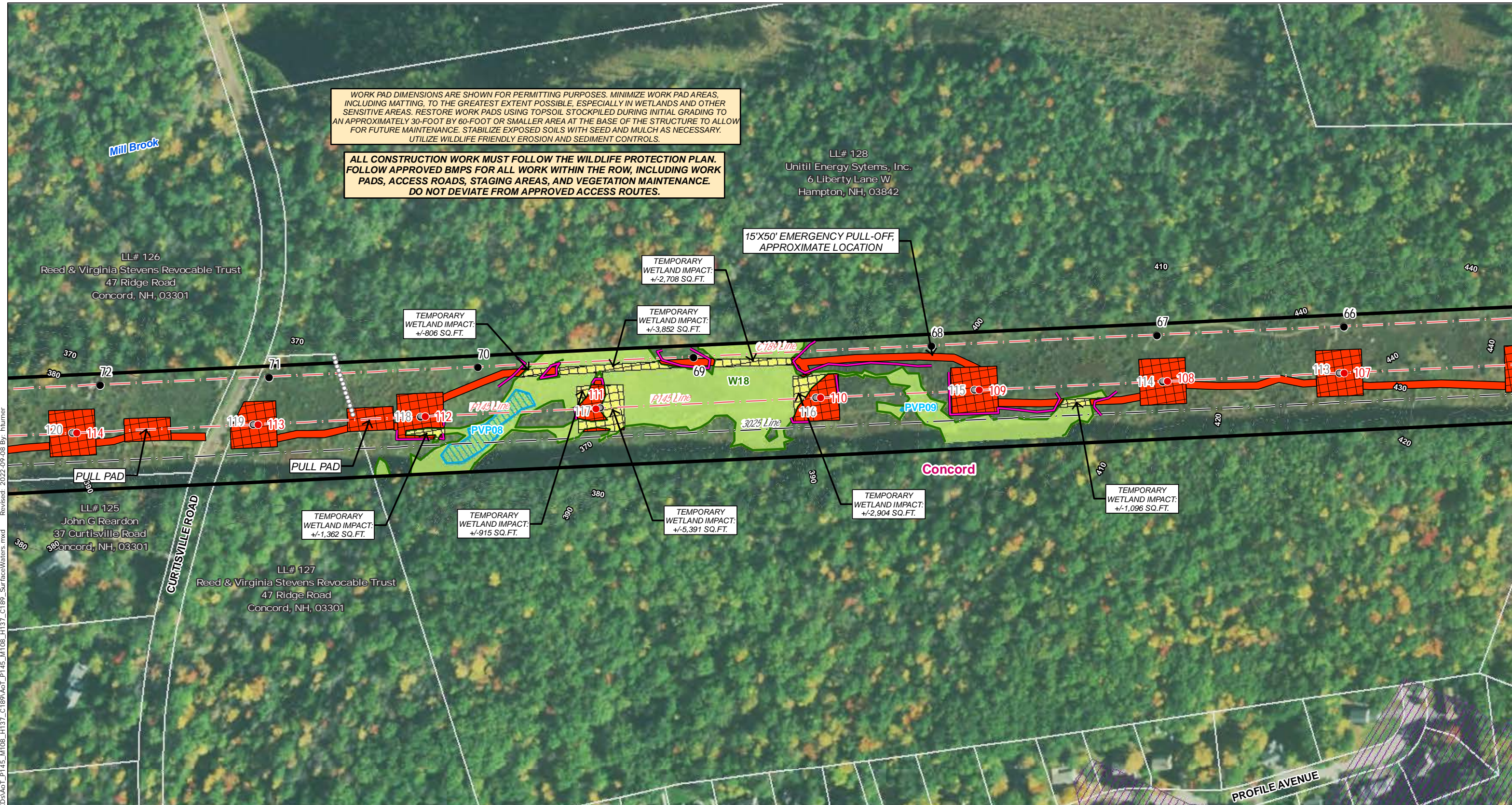
EVERSOURCE ENERGY		Stantec
P145 Rebuild & H137/M108/C189 Structure Replacement		
Alteration of Terrain		
Surface Water and Groundwater Overlay Plans		
Concord, NH	MAP SHEET	
Date: September 08, 2022	6 of 23	



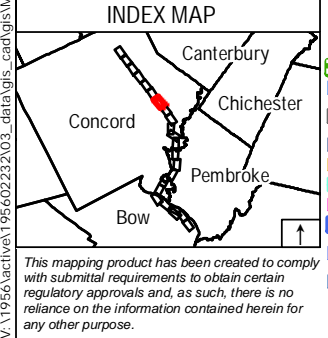
WORK PAD DIMENSIONS ARE SHOWN FOR PERMITTING PURPOSES. MINIMIZE WORK PAD AREAS, INCLUDING MATTING, TO THE GREATEST EXTENT POSSIBLE, ESPECIALLY IN WETLANDS AND OTHER SENSITIVE AREAS. RESTORE WORK PADS USING TOPSOIL STOCKPILED DURING INITIAL GRADING TO AN APPROXIMATELY 30-FOOT BY 60-FOOT OR SMALLER AREA AT THE BASE OF THE STRUCTURE TO ALLOW FOR FUTURE MAINTENANCE. STABILIZE EXPOSED SOILS WITH SEED AND MULCH AS NECESSARY. UTILIZE WILDLIFE FRIENDLY EROSION AND SEDIMENT CONTROLS.

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LL# 128
Unitil Energy Systems, Inc.
6 Liberty Lane W
Hampton, NH, 03842

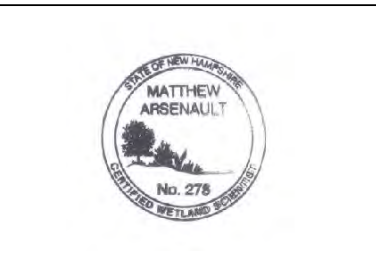
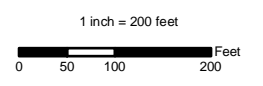


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Legend	
	Local Potential Contamination Sources
	Wellhead Protection Areas
	Class A Surface Waters RSA 485A9 (none)
	Coastal and Great Bay Region Communities (none)
	Designated Rivers Quartermile Buffer (none)
	Groundwater Classification Areas GA1 (none)
	Groundwater Classification Areas GA2
	Groundwater Classification Areas GAA
	All Lakes with a Quarter Mile Buffer
	Class A Surface Waters RSA 485A9 Lakes Only Quarter Mile Buffer (none)
	Outstanding Resource Water Watersheds (none)
	Surface Waters with Impairments 2016 with Quarter Mile Buffer
	Water Supply Intake Protection Areas (none)
	Watersheds with Chloride Impairments 2016
	Existing Structure
	Existing Structure to be Removed
	Proposed Structure
	Overhead Eversource Line
	Overhead Distribution Line
	Underground Distribution Line
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	FEMA 100-Year Flood Zone
	Floodway
	2' Contours
	10' Contours
	Potential Vernal Pool
	Potential Vernal Pool Extent
	Delineated Perennial Stream
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	Fence
	Berm
	Stone Wall (NPT)
	Gate
	Culvert
	Rare Species

Map Notes:
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EVERSOURCE ENERGY		Stantec
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Alteration of Terrain		
Surface Water and Groundwater Overlay Plans		
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REFER TO NHDOT ENCUMBRANCE PERMIT CONDITIONS AND SAFETY REQUIREMENTS

TEMPORARY WETLAND IMPACT: +/-10,000 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-9,781 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-781 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-415 SQ.FT.

TEMPORARY WETLAND IMPACT: +/-1,034 SQ.FT.

15'X50' EMERGENCY PULL-OFF, APPROXIMATE LOCATION

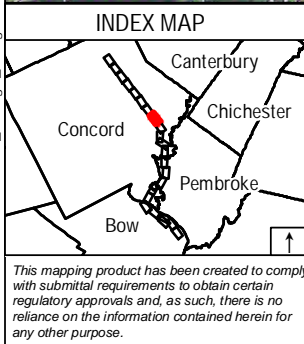
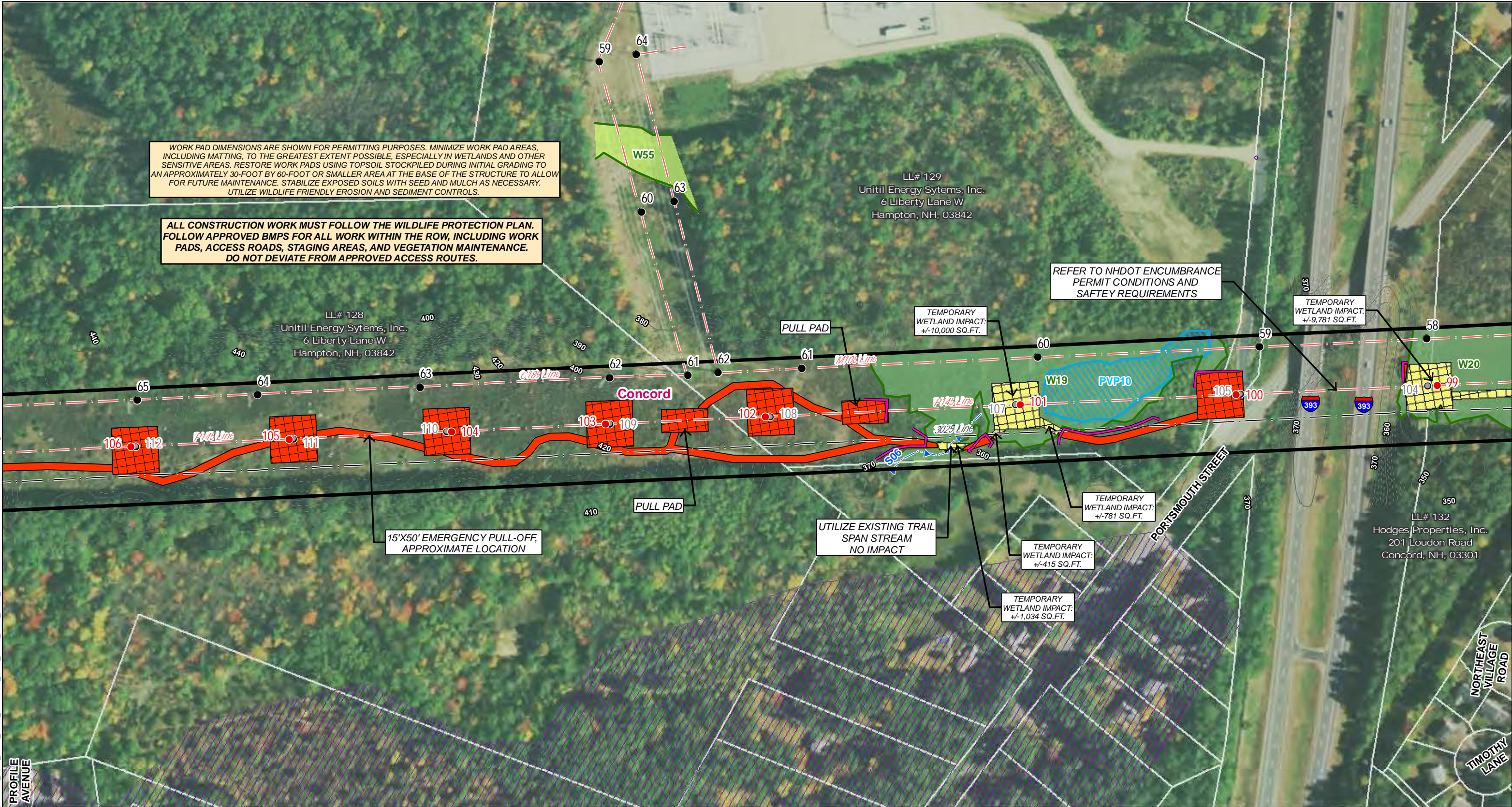
UTILIZE EXISTING TRAIL SPAN STREAM NO IMPACT

LL# 129
Unitil Energy Sysms, Inc.
6 Liberty Lane W
Hampton, NH, 03842

LL# 128
Unitil Energy Sysms, Inc.
6 Liberty Lane W
Hampton, NH, 03842

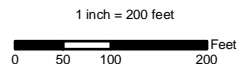
LL# 132
Hodges Properties, Inc.
201 Loudon Road
Concord, NH, 03301

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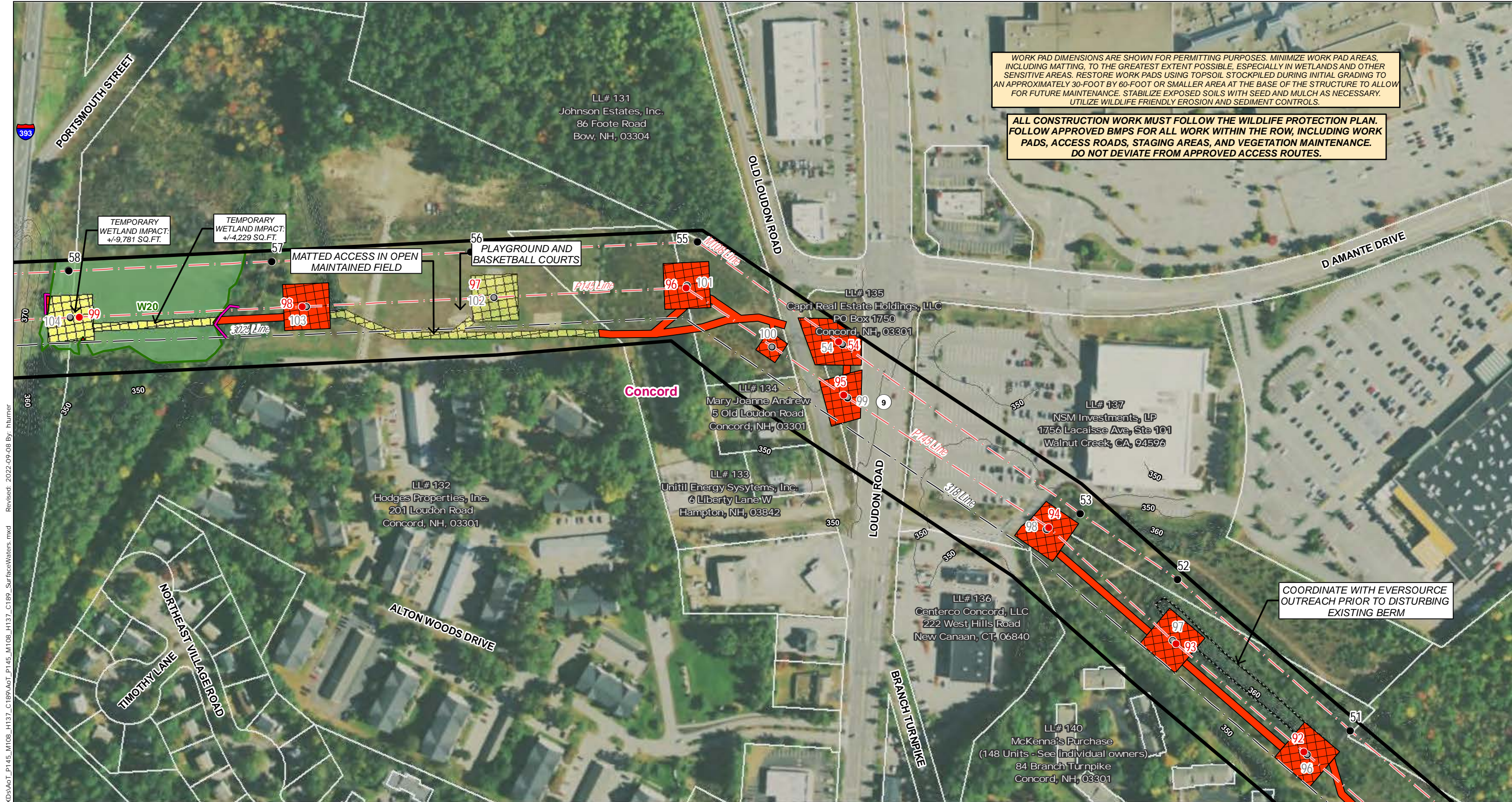


Legend	
	Local Potential Contamination Sources
	Wellhead Protection Areas
	Class A Surface Waters RSA 485A9 (none)
	Coastal and Great Bay Region Communities (none)
	Designated Rivers Quartermile Buffer (none)
	Groundwater Classification Areas GA1 (none)
	Groundwater Classification Areas GA2
	Groundwater Classification Areas GAA
	All Lakes with a Quarter Mile Buffer
	Class A Surface Waters RSA 485A9 Lakes Only
	Quarter Mile Buffer (none)
	Outstanding Resource Water Watersheds (none)
	Existing Structure
	Proposed Structure
	Overhead Eversource Line
	Overhead Distribution Line
	Underground Distribution Line
	Existing Right-of-Way (ROW)
	Off-ROW Access Pending Rights
	Existing Access
	Suggested Erosion and Sediment Control (TYP)
	AoT Disturbance Area - Pad
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	FEMA 100-Year Flood Zone
	Floodway
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	10' Contours
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	Delineated Ephemeral Stream
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	GAS Approximate Gas Line
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	Culvert
	Rare Species

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EVERSOURCE ENERGY		Stantec	
P145 Rebuild & H137/M108/C189 Structure Replacement			
Alteration of Terrain			
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Concord, NH		MAP SHEET	
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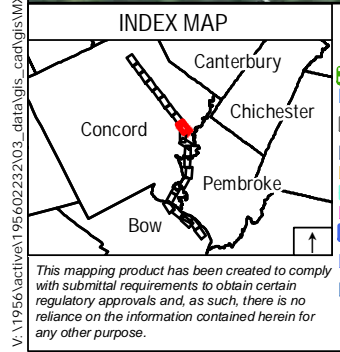


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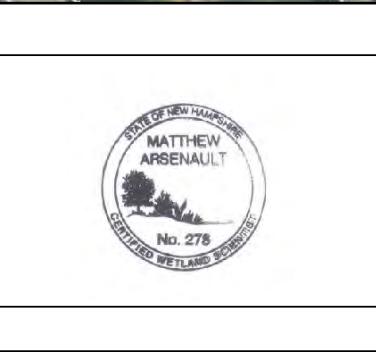
COORDINATE WITH EVERSOURCE OUTREACH PRIOR TO DISTURBING EXISTING BERM

V:\195\active\195\02232103_data\gis\mxd\Aerial\145_M108_H137_C189_SurfaceWaters.mxd Revised: 2022-09-08 By: hturner



Legend	
	Local Potential Contamination Sources
	Wellhead Protection Areas
	Class A Surface Waters RSA 485A9 (none)
	Coastal and Great Bay Region Communities (none)
	Designated Rivers Quartermile Buffer (none)
	Groundwater Classification Areas GA1 (none)
	Groundwater Classification Areas GA2
	Groundwater Classification Areas GAA
	All Lakes with a Quarter Mile Buffer
	Class A Surface Waters RSA 485A9 Lakes Only Quarter Mile Buffer (none)
	Outstanding Resource Water Watersheds (none)
	Existing Structure
	Proposed Structure
	Overhead Eversource Line
	Overhead Distribution Line
	Underground Distribution Line
	Existing Right-of-Way (ROW)
	Off-ROW Access Pending Rights
	Existing Access
	Suggested Erosion and Sediment Control (TYP)
	AoT Disturbance Area - Pad
	AoT Disturbance Area - New Access
	Temporary Construction Matting
	Existing Gravel
	Stone Work Pad
	Eversource Owned Property
	State Owned Land
	LLN/Property Owner
	Parcel Boundary
	Municipal Boundary
	FEMA 100-Year Flood Zone
	Floodway
	2' Contours
	10' Contours
	Potential Vernal Pool
	Potential Vernal Pool Extent
	Delineated Perennial Stream
	Delineated Intermittent Stream
	Delineated Ephemeral Stream
	Delineated Wetland Boundary
	Field Delineated Wetland
	Priority Resource Area
	Open Water
	NHDES Protected Shoreland
	Rail Road
	GAS Approximate Gas Line
	Fence
	Berm
	Stone Wall (NPT)
	Gate
	Culvert
	Rare Species

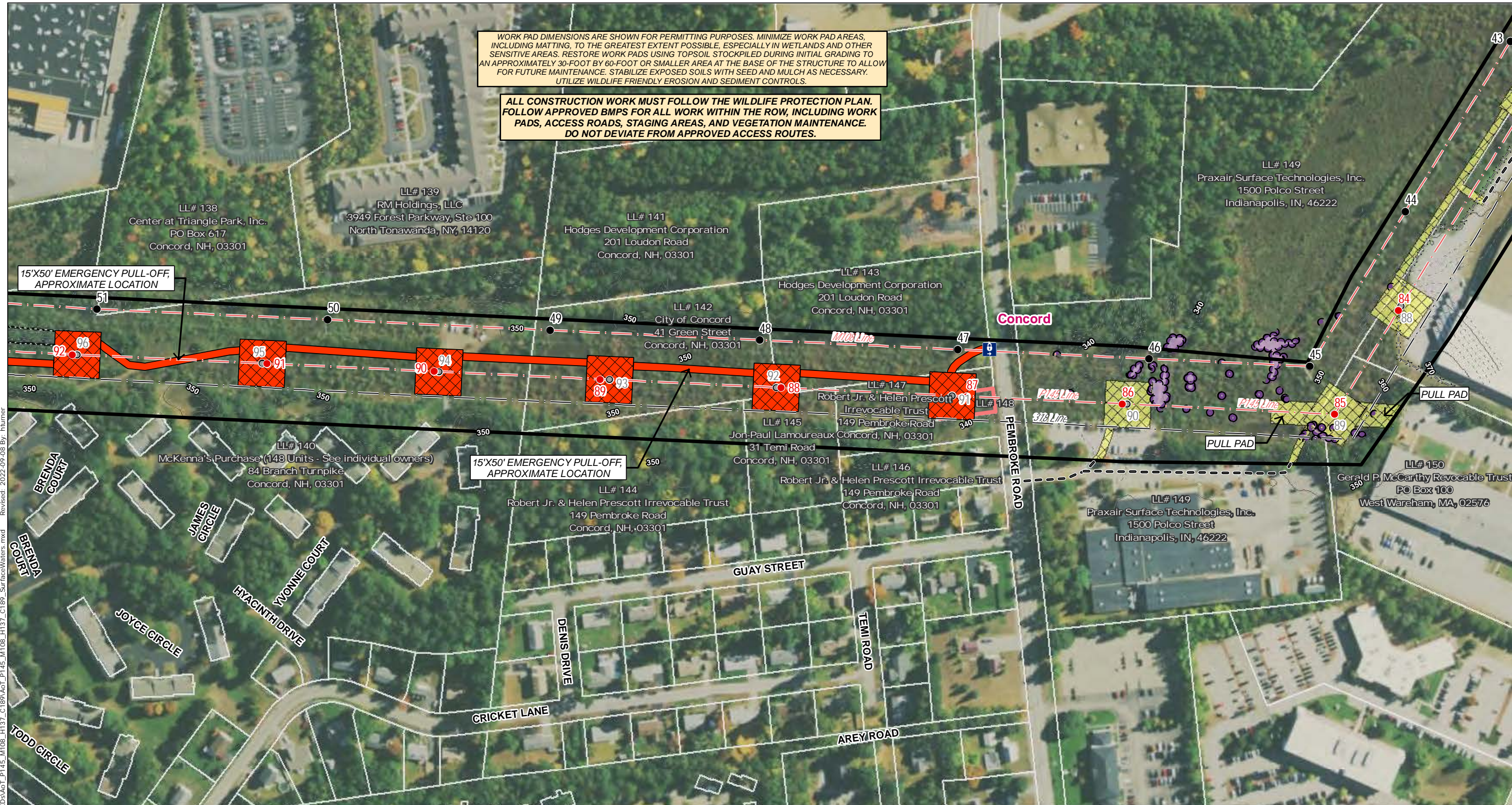
Map Notes:
 Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
 Data source: Eversource easement lines, structures, transmission lines provided by Eversource Energy. Wetlands/watercourses delineated and verified by Stantec October 2021.
 Additional source include: NH Granit
 Basemap: National Agriculture Imagery Program (NAIP) aerial imagery



EVERSOURCE ENERGY		Stantec
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Alteration of Terrain		
Surface Water and Groundwater Overlay Plans		
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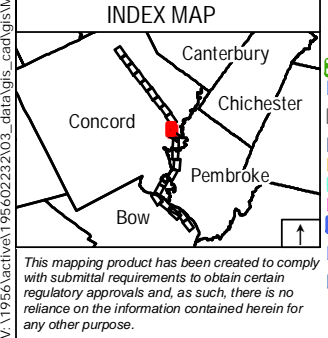
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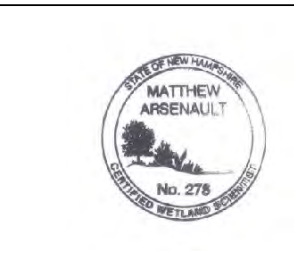
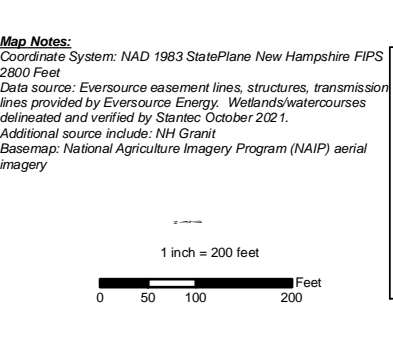
15'X50' EMERGENCY PULL-OFF, APPROXIMATE LOCATION

15'X50' EMERGENCY PULL-OFF, APPROXIMATE LOCATION



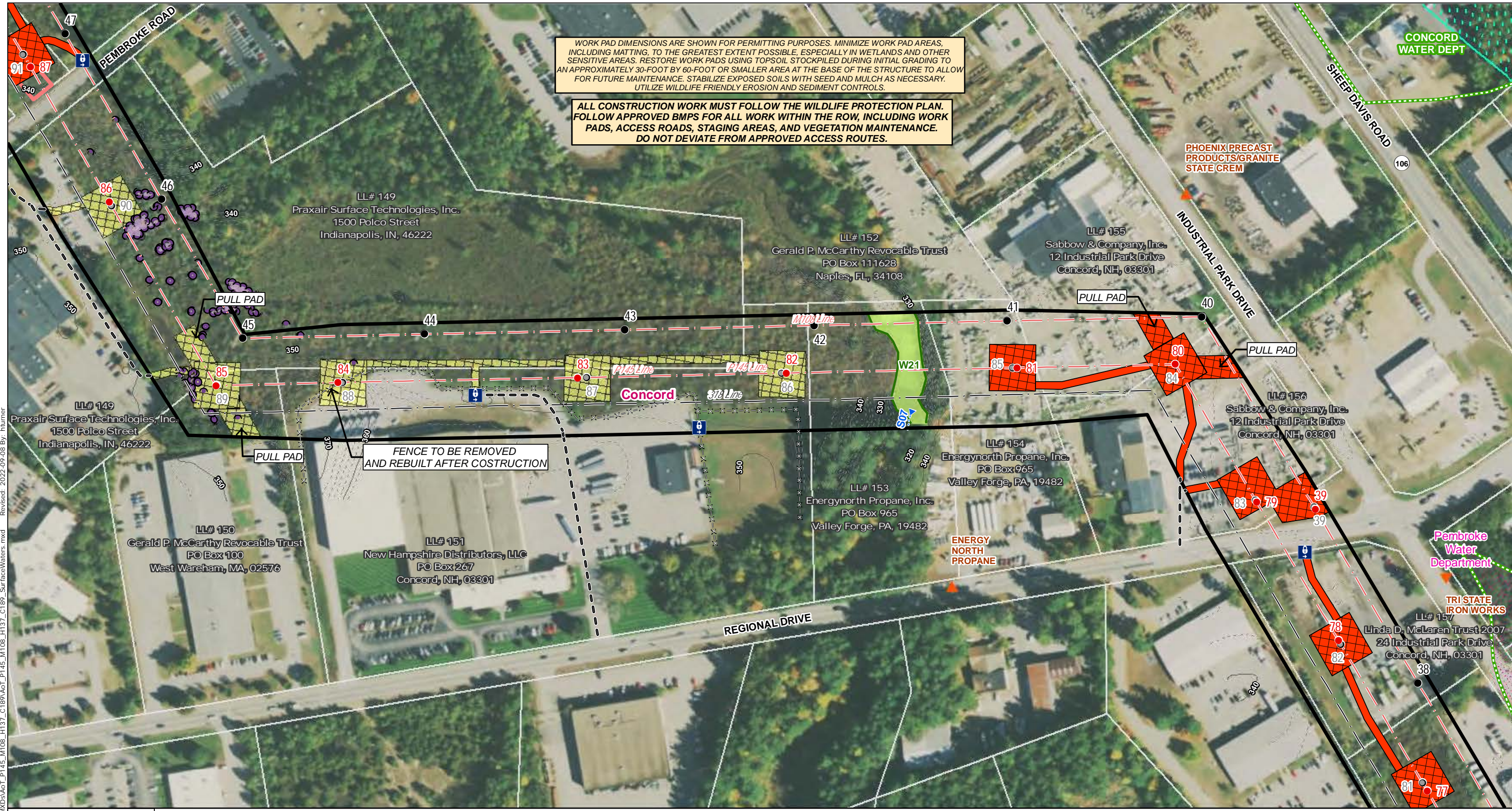
- Legend**
- Local Potential Contamination Sources
 - Wellhead Protection Areas
 - Class A Surface Waters RSA 485A9 (none)
 - Coastal and Great Bay Region Communities (none)
 - Designated Rivers Quartermile Buffer (none)
 - Groundwater Classification Areas GA1 (none)
 - Groundwater Classification Areas GA2
 - Groundwater Classification Areas GAA
 - All Lakes with a Quarter Mile Buffer
 - Class A Surface Waters RSA 485A9 Lakes Only Quarter Mile Buffer (none)
 - Outstanding Resource Water Watersheds (none)
 - Surface Waters with Impairments 2016 with Quarter Mile Buffer
 - Water Supply Intake Protection Areas (none)
 - Watersheds with Chloride Impairments 2016
 - Existing Structure
 - Existing Structure to be Removed
 - Proposed Structure
 - Overhead Eversource Line
 - Overhead Distribution Line
 - Underground Distribution Line
 - Existing Right-of-Way (ROW)
 - Off-ROW Access Pending Rights
 - Existing Access
 - Suggested Erosion and Sediment Control (TYP)
 - AoT Disturbance Area - Pad
 - AoT Disturbance Area - New Access
 - Temporary Construction Matting
 - Existing Gravel
 - Stone Work Pad
 - Eversource Owned Property
 - State Owned Land
 - LLN/Property Owner
 - Parcel Boundary
 - Municipal Boundary
 - FEMA 100-Year Flood Zone
 - Floodway
 - 2' Contours
 - 10' Contours
 - Potential Vernal Pool
 - Potential Vernal Pool Extent
 - Delineated Perennial Stream
 - Delineated Intermittent Stream
 - Delineated Ephemeral Stream
 - Delineated Wetland Boundary
 - Field Delineated Wetland
 - Priority Resource Area
 - Open Water
 - NHDES Protected Shoreland
 - Rail Road
 - GAS Approximate Gas Line
 - Fence
 - Berm
 - Stone Wall (NPT)
 - Gate
 - Culvert
 - Rare Species
 - Rare Species
 - Wild Lupine

- Map Notes:**
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EVERSOURCE ENERGY		Stantec
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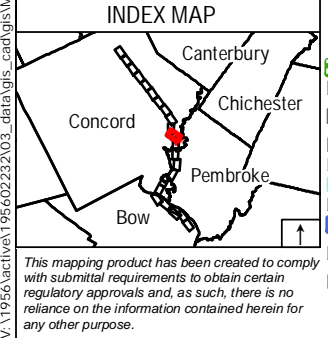
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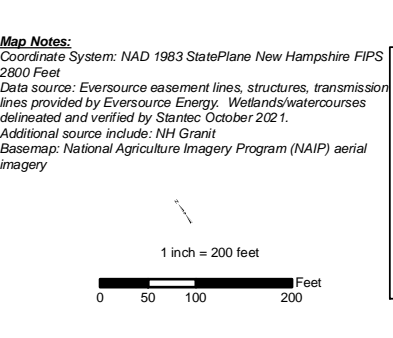
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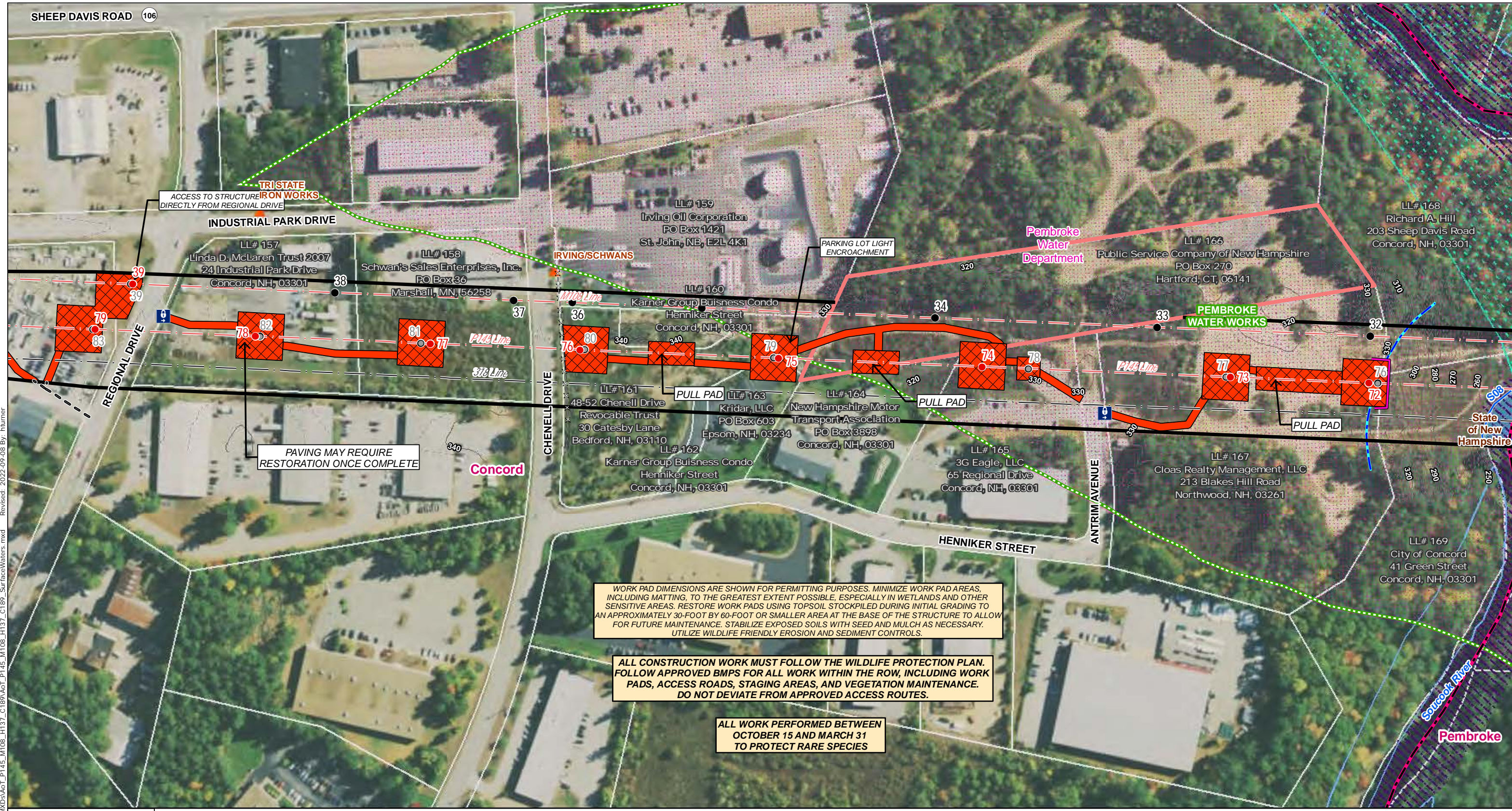


- Legend**
- ▲ Local Potential Contamination Sources
 - Wellhead Protection Areas
 - Class A Surface Waters RSA 485A9 (none)
 - Coastal and Great Bay Region Communities (none)
 - Designated Rivers Quartermile Buffer (none)
 - Groundwater Classification Areas GA1 (none)
 - Groundwater Classification Areas GA2
 - Groundwater Classification Areas GAA
 - All Lakes with a Quarter Mile Buffer
 - Class A Surface Waters RSA 485A9 Lakes Only
 - Quarter Mile Buffer (none)
 - Outstanding Resource Water Watersheds (none)
 - Existing Structure
 - Existing Structure to be Removed
 - Proposed Structure
 - Overhead Eversource Line
 - Overhead Distribution Line
 - Underground Distribution Line
 - Existing Right-of-Way (ROW)
 - Off-ROW Access Pending Rights
 - Existing Access
 - Suggested Erosion and Sediment Control (TYP)
 - AoT Disturbance Area - Pad
 - AoT Disturbance Area - New Access
 - Temporary Construction Matting
 - Existing Gravel
 - Stone Work Pad
 - Eversource Owned Property
 - State Owned Land
 - LLN/Property Owner
 - Parcel Boundary
 - Municipal Boundary
 - FEMA 100-Year Flood Zone
 - Floodway
 - 2' Contours
 - 10' Contours
 - Potential Vernal Pool
 - Potential Vernal Pool Extent
 - Delineated Perennial Stream
 - Delineated Intermittent Stream
 - Delineated Ephemeral Stream
 - Delineated Wetland Boundary
 - Field Delineated Wetland
 - Priority Resource Area
 - Open Water
 - NHDES Protected Shoreland
 - Rail Road
 - GAS Approximate Gas Line
 - X-X Fence
 - Berm
 - Stone Wall (NPT)
 - Gate
 - Culvert
 - Rare Species
 - Rare Species
 - Wild Lupine

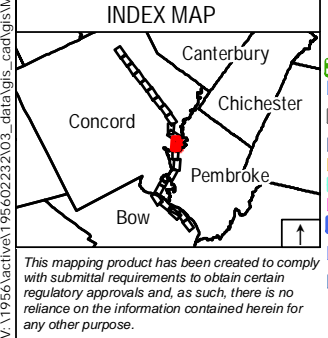
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P145 Rebuild & H137/M108/C189 Structure Replacement Alteration of Terrain Surface Water and Groundwater Overlay Plans	
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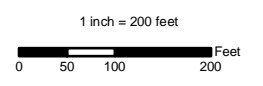
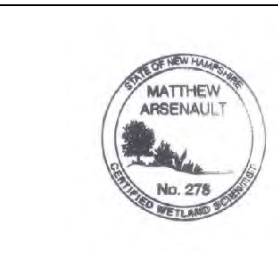


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 Revised: 2022-09-08 By: hturner

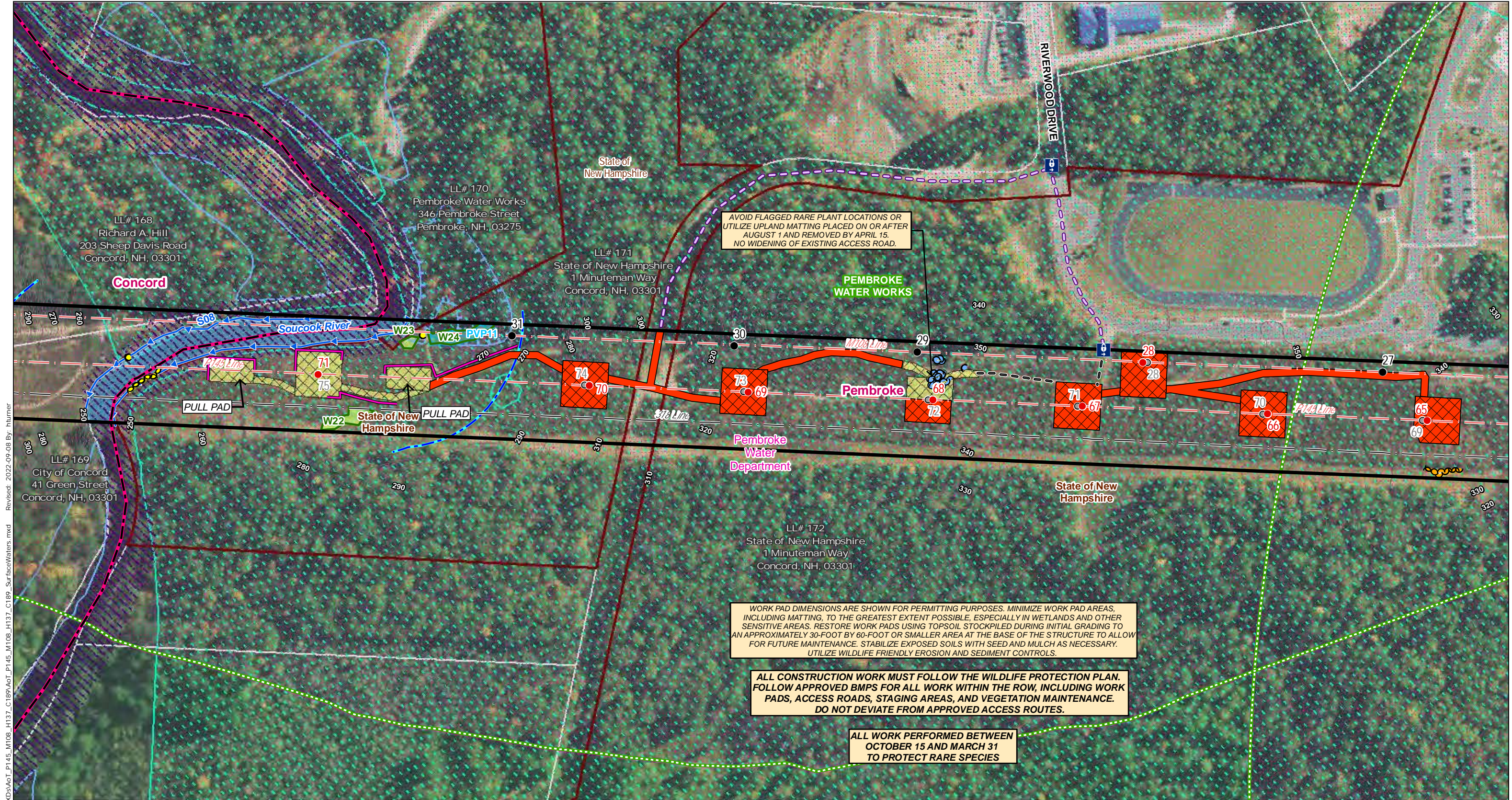


Legend	
	Local Potential Contamination Sources
	Wellhead Protection Areas
	Class A Surface Waters RSA 485A9 (none)
	Coastal and Great Bay Region Communities (none)
	Designated Rivers Quartermile Buffer (none)
	Groundwater Classification Areas GA1 (none)
	Groundwater Classification Areas GA2
	Groundwater Classification Areas GAA
	All Lakes with a Quarter Mile Buffer
	Class A Surface Waters RSA 485A9 Lakes Only Quarter Mile Buffer (none)
	Outstanding Resource Water Watersheds (none)
	Existing Structure
	Proposed Structure
	Overhead Eversource Line
	Overhead Distribution Line
	Existing Right-of-Way (ROW)
	Off-ROW Access Pending Rights
	Existing Access
	Suggested Erosion and Sediment Control (TYP)
	AoT Disturbance Area - Pad
	AoT Disturbance Area - New Access
	Temporary Construction Matting
	Existing Gravel
	Stone Work Pad
	Eversource Owned Property
	State Owned Land
	LLN/Property Owner
	Parcel Boundary
	Municipal Boundary
	FEMA 100-Year Flood Zone
	Floodway
	2' Contours
	10' Contours
	Potential Vernal Pool
	Potential Vernal Pool Extent
	Delineated Perennial Stream
	Delineated Intermittent Stream
	Delineated Ephemeral Stream
	Delineated Wetland Boundary
	Field Delineated Wetland
	Priority Resource Area
	Open Water
	NHDES Protected Shoreland
	Rail Road
	GAS Approximate Gas Line
	Fence
	Berm
	Stone Wall (NPT)
	Gate
	Culvert
	Rare Species

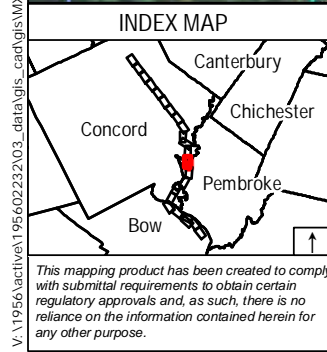
Map Notes:
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P145 Rebuild & H137/M108/C189 Structure Replacement Alteration of Terrain Surface Water and Groundwater Overlay Plans	
Concord, NH	MAP SHEET
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 Revised: 2022-09-08 By: hturner



Legend

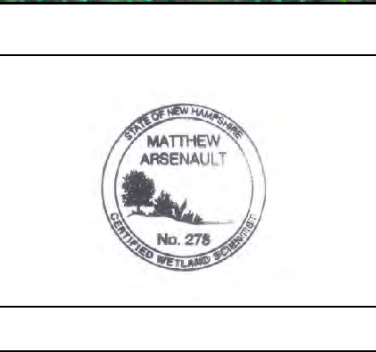
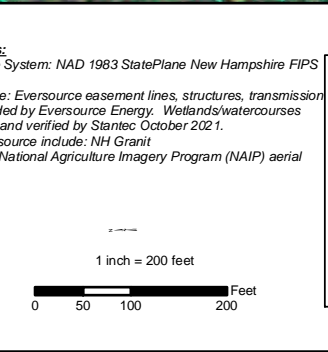
	Local Potential Contamination Sources		Surface Waters with Impairments 2016 with Quarter Mile Buffer		AoT Disturbance Area - Pad		Potential Vernal Pool		Berm	Map Notes: Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet Data source: Eversource easement lines, structures, transmission lines provided by Eversource Energy. Wetlands/watercourses delineated and verified by Stantec October 2021. Additional source include: NH Granit Basemap: National Agriculture Imagery Program (NAIP) aerial imagery
	Wellhead Protection Areas		Water Supply Intake Protection Areas (none)		AoT Disturbance Area - New Access		Potential Vernal Pool Extent		Stone Wall (NPT)	
	Class A Surface Waters RSA 485A9 (none)		Watersheds with Chloride Impairments 2016		Temporary Construction Matting		Delineated Perennial Stream		Gate	
	Coastal and Great Bay Region Communities (none)		Existing Structure		Existing Gravel		Delineated Intermittent Stream		Culvert	
	Designated Rivers Quartermile Buffer (none)		Existing Structure to be Removed		State Owned Property		Delineated Ephemeral Stream		Rare Species	
	Groundwater Classification Areas GA1 (none)		Proposed Structure		State Owned Land		Delineated Wetland Boundary		Licorice Goldenrod	
	Groundwater Classification Areas GA2		Overhead Eversource Line		LLN/Property Owner		Field Delineated Wetland		Dry Land Sedge	
	Groundwater Classification Areas GAA		Overhead Distribution Line		Parcel Boundary		Priority Resource Area		Hollow Joe-Pye Weed	
	All Lakes with a Quarter Mile Buffer		Underground Distribution Line		Municipal Boundary		Open Water			
	Class A Surface Waters RSA 485A9 Lakes Only Quarter Mile Buffer (none)		Existing Right-of-Way (ROW)		FEMA 100-Year Flood Zone		NHDES Protected Shoreland			
	Outstanding Resource Water Watersheds (none)		Off-ROW Access Pending Rights		Floodway		Rail Road			
			Existing Access		2' Contours		GAS Approximate Gas Line			
			Suggested Erosion and Sediment Control (TYP)		10' Contours		Fence			

	Existing Structure		Potential Vernal Pool		Rare Species
	Existing Structure to be Removed		Potential Vernal Pool Extent		Licorice Goldenrod
	Proposed Structure		Delineated Perennial Stream		Dry Land Sedge
	Overhead Eversource Line		Delineated Intermittent Stream		Hollow Joe-Pye Weed
	Overhead Distribution Line		Delineated Ephemeral Stream		
	Underground Distribution Line		Delineated Wetland Boundary		
	Existing Right-of-Way (ROW)		Field Delineated Wetland		
	Off-ROW Access Pending Rights		Priority Resource Area		
	Existing Access		Open Water		
	Suggested Erosion and Sediment Control (TYP)		NHDES Protected Shoreland		
			Rail Road		
			GAS Approximate Gas Line		
			Fence		

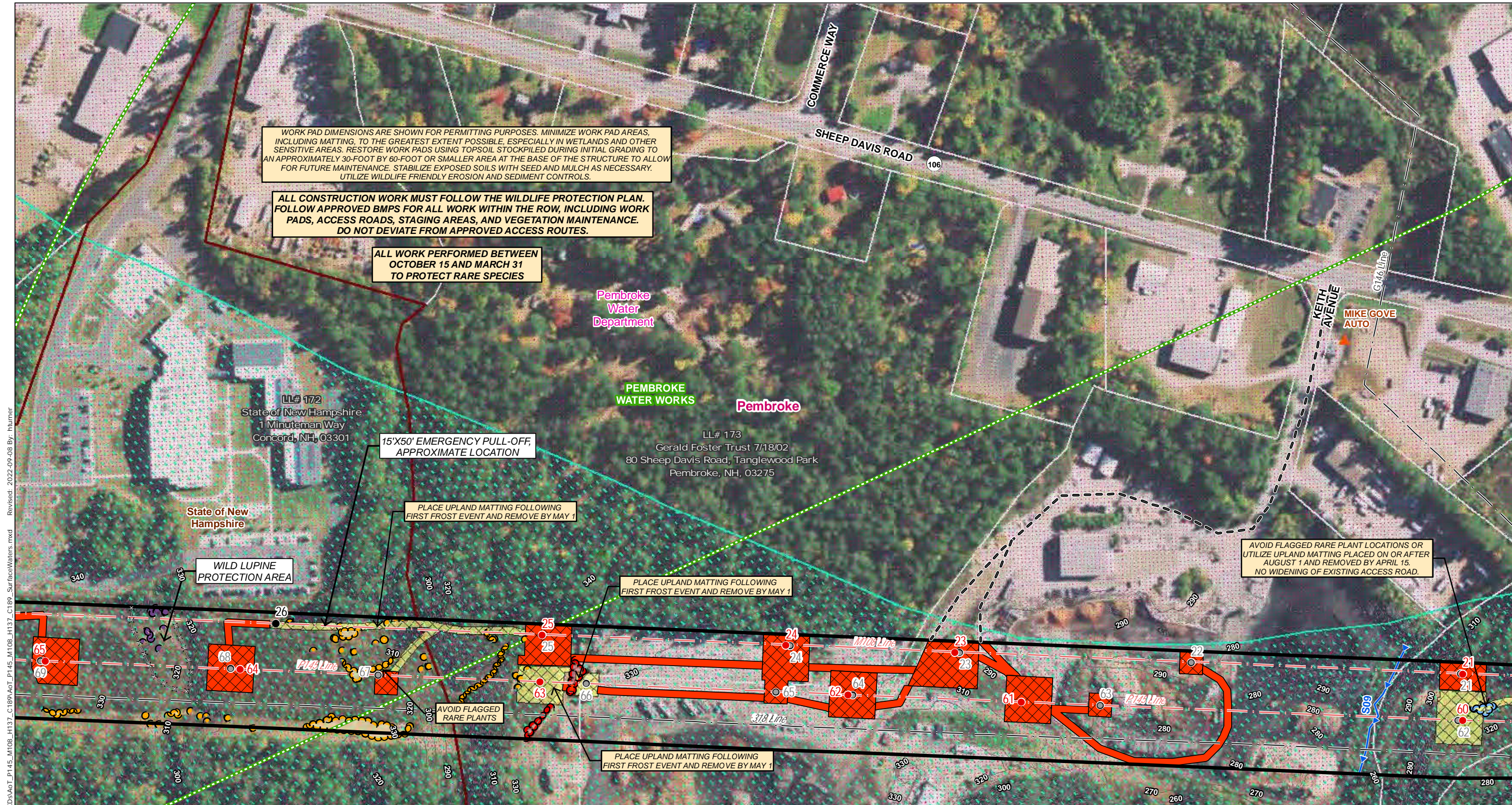
	AoT Disturbance Area - Pad		Potential Vernal Pool		Rare Species
	AoT Disturbance Area - New Access		Potential Vernal Pool Extent		Licorice Goldenrod
	Temporary Construction Matting		Delineated Perennial Stream		Dry Land Sedge
	Existing Gravel		Delineated Intermittent Stream		Hollow Joe-Pye Weed
	Stone Work Pad		Delineated Ephemeral Stream		
	Eversource Owned Property		Delineated Wetland Boundary		
	State Owned Land		Field Delineated Wetland		
	LLN/Property Owner		Priority Resource Area		
	Parcel Boundary		Open Water		
	Municipal Boundary		NHDES Protected Shoreland		
	FEMA 100-Year Flood Zone		Rail Road		
	Floodway		GAS Approximate Gas Line		
	2' Contours		Fence		
	10' Contours				

	Potential Vernal Pool		Rare Species
	Potential Vernal Pool Extent		Licorice Goldenrod
	Delineated Perennial Stream		Dry Land Sedge
	Delineated Intermittent Stream		Hollow Joe-Pye Weed
	Delineated Ephemeral Stream		
	Delineated Wetland Boundary		
	Field Delineated Wetland		
	Priority Resource Area		
	Open Water		
	NHDES Protected Shoreland		
	Rail Road		
	GAS Approximate Gas Line		
	Fence		

	Berm		Rare Species
	Stone Wall (NPT)		Licorice Goldenrod
	Gate		Dry Land Sedge
	Culvert		Hollow Joe-Pye Weed



P145 Rebuild & H137/M108/C189 Structure Replacement Alteration of Terrain Surface Water and Groundwater Overlay Plans	
Pembroke & Concord, NH	MAP SHEET
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ALL WORK PERFORMED BETWEEN OCTOBER 15 AND MARCH 31 TO PROTECT RARE SPECIES

15'X50' EMERGENCY PULL-OFF, APPROXIMATE LOCATION

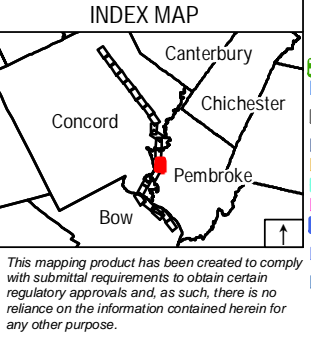
PLACE UPLAND MATTING FOLLOWING FIRST FROST EVENT AND REMOVE BY MAY 1

PLACE UPLAND MATTING FOLLOWING FIRST FROST EVENT AND REMOVE BY MAY 1

PLACE UPLAND MATTING FOLLOWING FIRST FROST EVENT AND REMOVE BY MAY 1

AVOID FLAGGED RARE PLANT LOCATIONS OR UTILIZE UPLAND MATTING PLACED ON OR AFTER AUGUST 1 AND REMOVED BY APRIL 15. NO WIDENING OF EXISTING ACCESS ROAD.

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Legend

- ▲ Local Potential Contamination Sources
- Wellhead Protection Areas
- Class A Surface Waters RSA 485A9 (none)
- Coastal and Great Bay Region Communities (none)
- Designated Rivers Quarter Mile Buffer (none)
- Groundwater Classification Areas GA1 (none)
- Groundwater Classification Areas GA2
- Groundwater Classification Areas GAA
- All Lakes with a Quarter Mile Buffer
- Class A Surface Waters RSA 485A9 Lakes Only
- Quarter Mile Buffer (none)
- Outstanding Resource Water Watersheds (none)
- Existing Structure
- Existing Structure to be Removed
- Proposed Structure
- Overhead Eversource Line
- Overhead Distribution Line
- Underground Distribution Line
- Existing Right-of-Way (ROW)
- Off-ROW Access Pending Rights
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- Suggested Erosion and Sediment Control (TYP)
- AoT Disturbance Area - Pad
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- Parcel Boundary
- Municipal Boundary
- FEMA 100-Year Flood Zone
- Floodway
- 2' Contours
- 10' Contours
- * Potential Vernal Pool
- Potential Vernal Pool Extent
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Delineated Wetland Boundary
- Field Delineated Wetland
- Priority Resource Area
- Open Water
- NHDES Protected Shoreland
- Rail Road
- GAS Approximate Gas Line
- Fence
- Berm
- Stone Wall (NPT)
- Gate
- Culvert
- Rare Species
- Rare Species
- Wild Lupine
- Licorice Goldenrod
- Dry Land Sedge
- Red Threawn

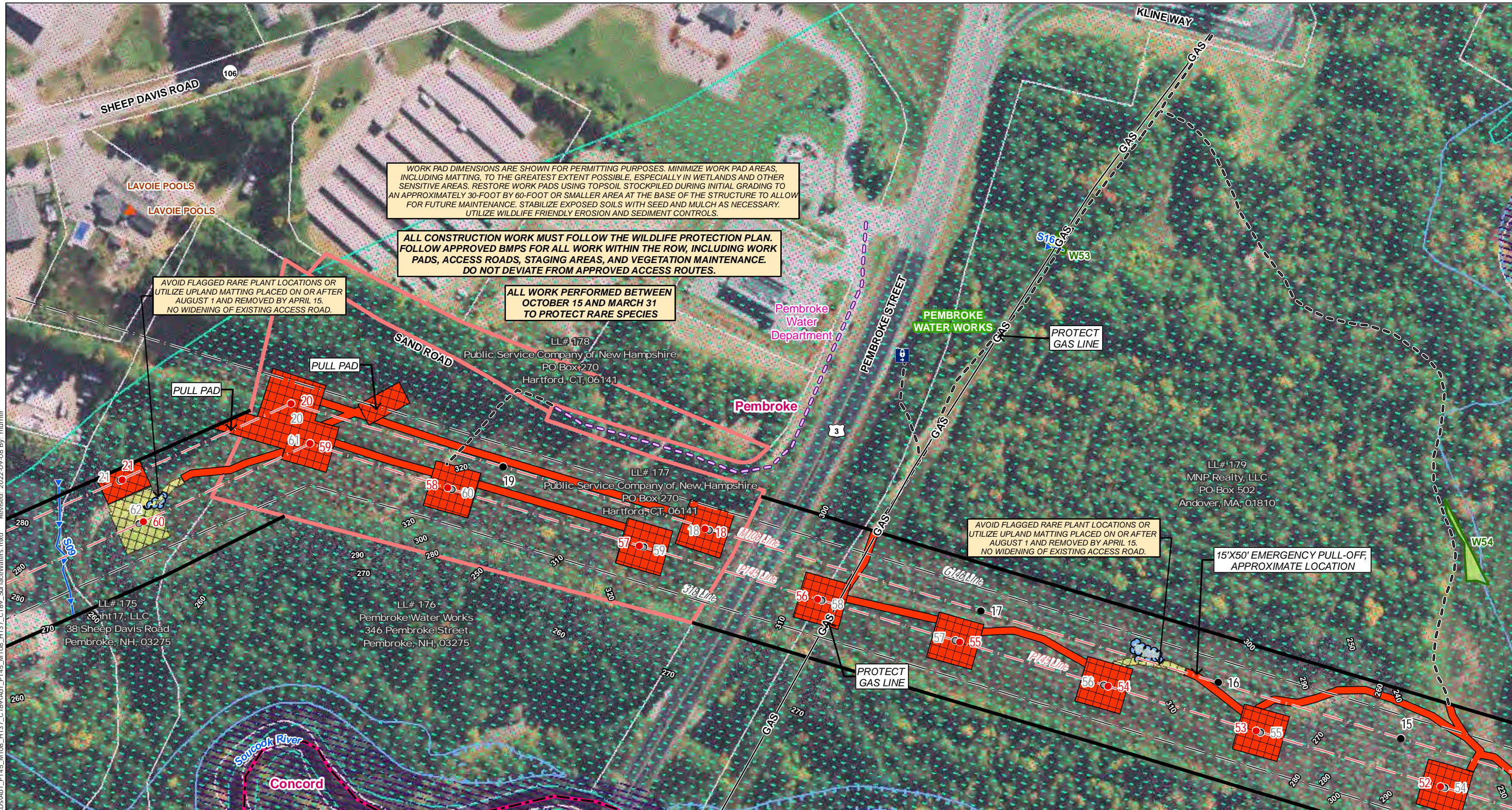
Map Notes:
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 Additional source include: NH Granit
 Basemap: National Agriculture Imagery Program (NAIP) aerial imagery

1 inch = 200 feet

0 50 100 200 Feet



EVERSOURCE ENERGY	Stantec
P145 Rebuild & H137/M108/C189 Structure Replacement	
Alteration of Terrain	
Surface Water and Groundwater Overlay Plans	
Pembroke, NH	MAP SHEET
Date: September 08, 2022	
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WORK PAD DIMENSIONS ARE SHOWN FOR PERMITTING PURPOSES. MINIMIZE WORK PAD AREAS, INCLUDING MATTING, TO THE GREATEST EXTENT POSSIBLE, ESPECIALLY IN WETLANDS AND OTHER SENSITIVE AREAS. RESTORE WORK PADS USING TOPSOIL STOCKPILED DURING INITIAL GRADING TO AN APPROXIMATELY 30-FOOT BY 60-FOOT OR SMALLER AREA AT THE BASE OF THE STRUCTURE TO ALLOW FOR FUTURE MAINTENANCE. STABILIZE EXPOSED SOILS WITH SEED AND MULCH AS NECESSARY. UTILIZE WILDLIFE FRIENDLY EROSION AND SEDIMENT CONTROLS.

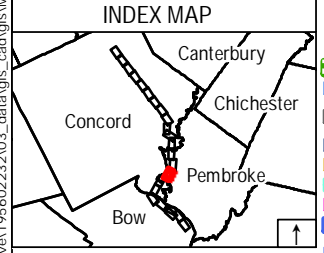
ALL CONSTRUCTION WORK MUST FOLLOW THE WILDLIFE PROTECTION PLAN. FOLLOW APPROVED BMPs FOR ALL WORK WITHIN THE ROW, INCLUDING WORK PADS, ACCESS ROADS, STAGING AREAS, AND VEGETATION MAINTENANCE. DO NOT DEVIATE FROM APPROVED ACCESS ROUTES.

AVOID FLAGGED RARE PLANT LOCATIONS OR UTILIZE UPLAND MATTING PLACED ON OR AFTER AUGUST 1 AND REMOVED BY APRIL 15. NO WIDENING OF EXISTING ACCESS ROAD.

ALL WORK PERFORMED BETWEEN OCTOBER 15 AND MARCH 31 TO PROTECT RARE SPECIES

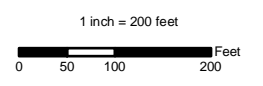
AVOID FLAGGED RARE PLANT LOCATIONS OR UTILIZE UPLAND MATTING PLACED ON OR AFTER AUGUST 1 AND REMOVED BY APRIL 15. NO WIDENING OF EXISTING ACCESS ROAD.

15'X50' EMERGENCY PULL-OFF, APPROXIMATE LOCATION



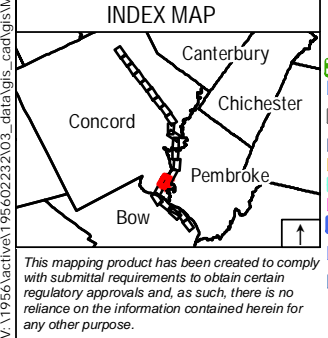
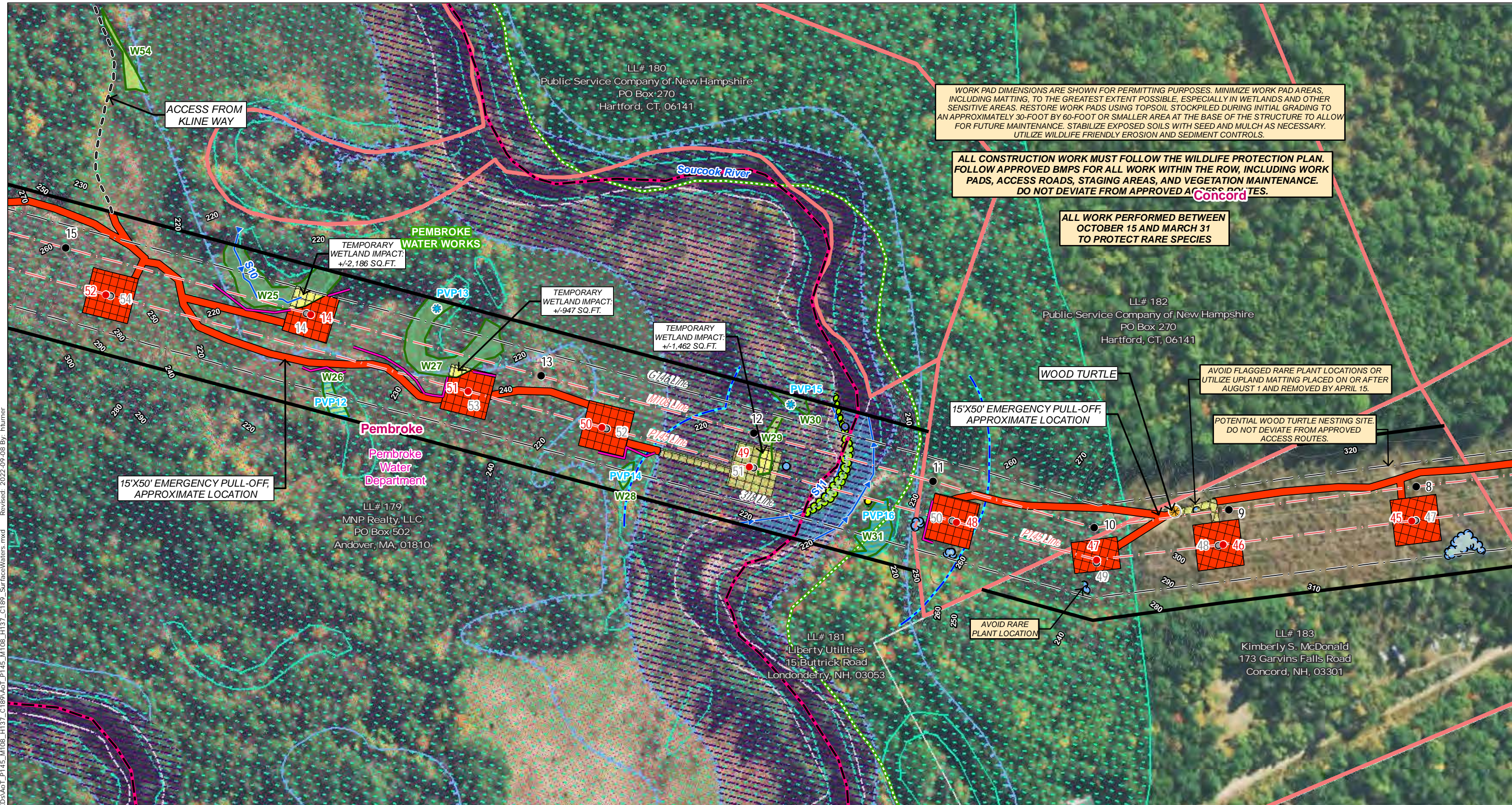
- Legend**
- Local Potential Contamination Sources
 - Wellhead Protection Areas
 - Class A Surface Waters RSA 485A9 (none)
 - Coastal and Great Bay Region Communities (none)
 - Designated Rivers Quartermile Buffer (none)
 - Groundwater Classification Areas GA1 (none)
 - Groundwater Classification Areas GA2
 - Groundwater Classification Areas GAA
 - All Lakes with a Quarter Mile Buffer
 - Class A Surface Waters RSA 485A9 Lakes Only
 - Quarter Mile Buffer (none)
 - Outstanding Resource Water Watersheds (none)
 - Surface Waters with Impairments 2016 with Quarter Mile Buffer
 - Water Supply Intake Protection Areas (none)
 - Watersheds with Chloride Impairments 2016
 - Existing Structure
 - Existing Structure to be Removed
 - Proposed Structure
 - Overhead Eversource Line
 - Overhead Distribution Line
 - Underground Distribution Line
 - Existing Right-of-Way (ROW)
 - Off-ROW Access Pending Rights
 - Existing Access
 - Suggested Erosion and Sediment Control (TYP)
 - AoT Disturbance Area - Pad
 - AoT Disturbance Area - New Access
 - Temporary Construction Matting
 - Existing Gravel
 - Stone Work Pad
 - State Owned Property
 - State Owned Land
 - LLN/Property Owner
 - Parcel Boundary
 - Municipal Boundary
 - FEMA 100-Year Flood Zone
 - Floodway
 - 2' Contours
 - 10' Contours
 - Fence
 - Potential Vernal Pool
 - Potential Vernal Pool Extent
 - Delineated Perennial Stream
 - Delineated Intermittent Stream
 - Delineated Ephemeral Stream
 - Delineated Wetland Boundary
 - Field Delineated Wetland
 - Priority Resource Area
 - Open Water
 - NHDES Protected Shoreland
 - Rail Road
 - GAS Approximate Gas Line
 - Berm
 - Stone Wall (NPT)
 - Gate
 - Culvert
 - Rare Species
 - Rare Species
 - Dry Land Sedge

Map Notes:
 Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
 Data source: Eversource easement lines, structures, transmission lines provided by Eversource Energy. Wetlands/watercourses delineated and verified by Stantec October 2021.
 Additional source include: NH Granit
 Basemap: National Agriculture Imagery Program (NAIP) aerial imagery



EVERSOURCE ENERGY		Stantec	
P145 Rebuild & H137/M108/C189 Structure Replacement			
Alteration of Terrain			
Surface Water and Groundwater Overlay Plans			
Pembroke, NH		MAP SHEET	
Date: September 08, 2022		15 of 23	

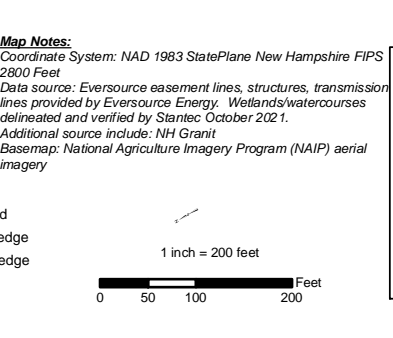
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Legend

- Local Potential Contamination Sources
- Wellhead Protection Areas
- Class A Surface Waters RSA 485A9 (none)
- Coastal and Great Bay Region Communities (none)
- Designated Rivers Quartermile Buffer (none)
- Groundwater Classification Areas GA1 (none)
- Groundwater Classification Areas GA2
- Groundwater Classification Areas GAA
- All Lakes with a Quarter Mile Buffer
- Class A Surface Waters RSA 485A9 Lakes Only Quarter Mile Buffer (none)
- Outstanding Resource Water Watersheds (none)
- Surface Waters with Impairments 2016 with Quarter Mile Buffer
- Water Supply Intake Protection Areas (none)
- Watersheds with Chloride Impairments 2016
- Existing Structure
- Existing Structure to be Removed
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- Existing Access
- Suggested Erosion and Sediment Control (TYP)
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- AoT Disturbance Area - New Access
- Temporary Construction Matting
- Existing Gravel
- Stone Work Pad
- Eversource Owned Property
- State Owned Land
- LLN/Property Owner
- Parcel Boundary
- Municipal Boundary
- FEMA 100-Year Flood Zone
- Floodway
- 2' Contours
- Existing Access
- 10' Contours
- Potential Vernal Pool
- Potential Vernal Pool Extent
- Delineated Perennial Stream
- Delineated Intermittent Stream
- Delineated Ephemeral Stream
- Delineated Wetland Boundary
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- Priority Resource Area
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- GAS Approximate Gas Line
- Fence
- Berm
- Stone Wall (NPT)
- Gate
- Culvert
- Rare Species
- Rare Species
- Dry Land Sedge
- Hollow Joe-Pye Weed
- Incurved Umbrella Sedge
- Red-trod Umbrella Sedge

Map Notes:
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Basemap: National Agriculture Imagery Program (NAIP) aerial imagery



P145 Rebuild & H137/M108/C189 Structure Replacement Alteration of Terrain Surface Water and Groundwater Overlay Plans	
Concord & Pembroke, NH	MAP SHEET
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 Revised: 2022-09-08 By: hturner

WORK PAD DIMENSIONS ARE SHOWN FOR PERMITTING PURPOSES. MINIMIZE WORK PAD AREAS, INCLUDING MATTING, TO THE GREATEST EXTENT POSSIBLE, ESPECIALLY IN WETLANDS AND OTHER SENSITIVE AREAS. RESTORE WORK PADS USING TOPSOIL STOCKPILED DURING INITIAL GRADING TO AN APPROXIMATELY 30-FOOT BY 60-FOOT OR SMALLER AREA AT THE BASE OF THE STRUCTURE TO ALLOW FOR FUTURE MAINTENANCE. STABILIZE EXPOSED SOILS WITH SEED AND MULCH AS NECESSARY. UTILIZE WILDLIFE FRIENDLY EROSION AND SEDIMENT CONTROLS.

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AVOID FLAGGED RARE PLANT LOCATIONS OR UTILIZE UPLAND MATTING PLACED ON OR AFTER AUGUST 1 AND REMOVED BY APRIL 15.

15'X50' EMERGENCY PULL-OFF, APPROXIMATE LOCATION

150'X75' MOBILE YARD AND TAPS

20' WIDE UNDERGROUND DISTRIBUTION FEEDER

TEMPORARY WETLAND IMPACT: +/-230 SQ.FT.

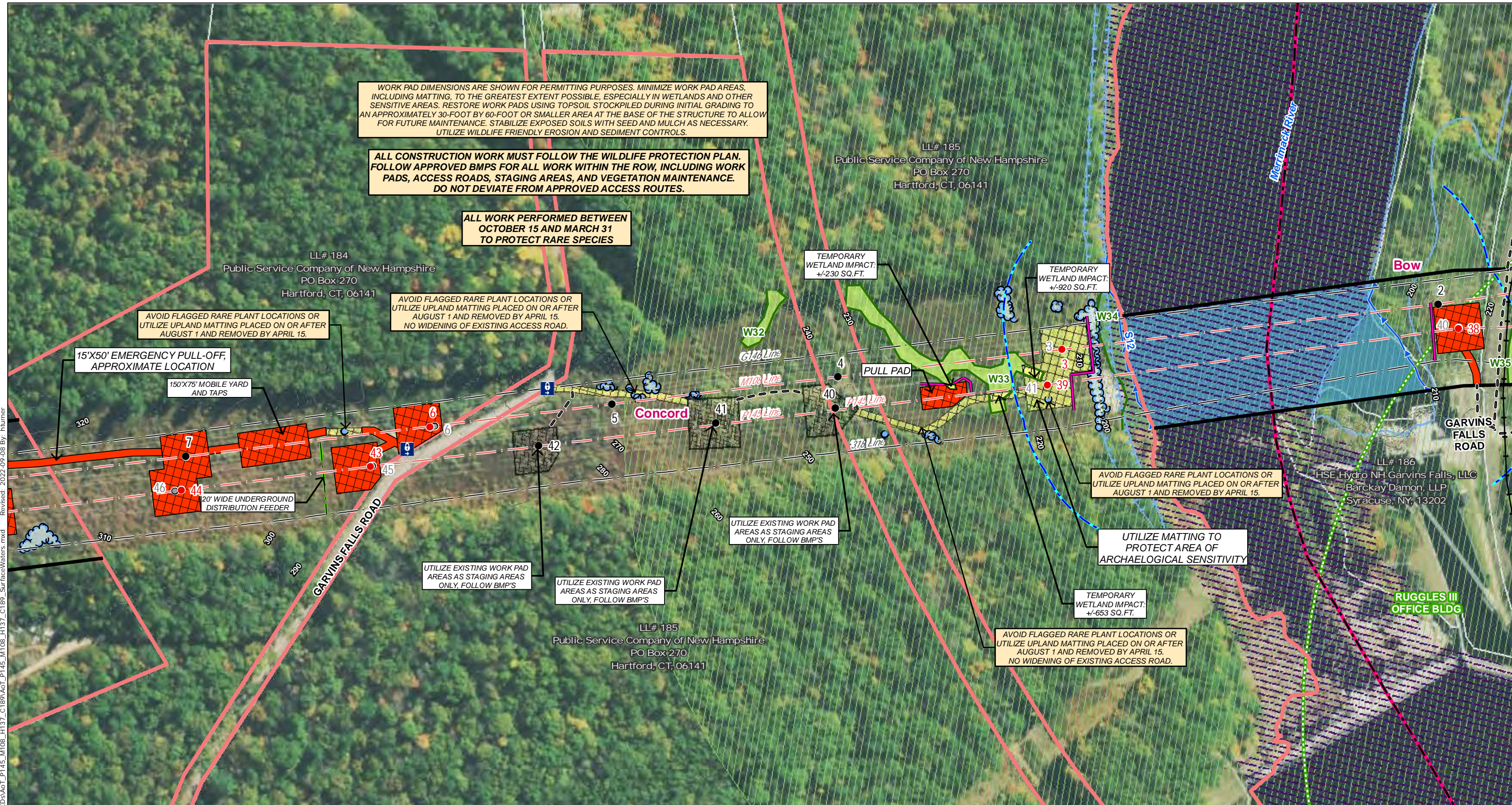
TEMPORARY WETLAND IMPACT: +/-920 SQ.FT.

AVOID FLAGGED RARE PLANT LOCATIONS OR UTILIZE UPLAND MATTING PLACED ON OR AFTER AUGUST 1 AND REMOVED BY APRIL 15.

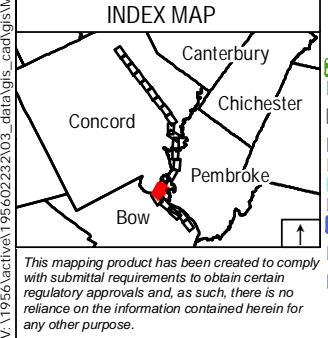
UTILIZE MATTING TO PROTECT AREA OF ARCHAEOLOGICAL SENSITIVITY

TEMPORARY WETLAND IMPACT: +/-653 SQ.FT.

AVOID FLAGGED RARE PLANT LOCATIONS OR UTILIZE UPLAND MATTING PLACED ON OR AFTER AUGUST 1 AND REMOVED BY APRIL 15. NO WIDENING OF EXISTING ACCESS ROAD.



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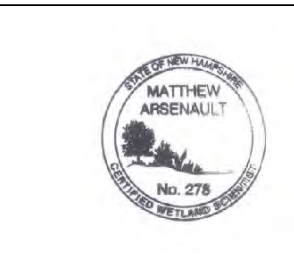


Legend	
	Local Potential Contamination Sources
	Wellhead Protection Areas
	Class A Surface Waters RSA 485A9 (none)
	Coastal and Great Bay Region Communities (none)
	Designated Rivers Quartermile Buffer (none)
	Groundwater Classification Areas GA1 (none)
	Groundwater Classification Areas GA2
	Groundwater Classification Areas GAA
	All Lakes with a Quarter Mile Buffer
	Class A Surface Waters RSA 485A9 Lakes Only Quarter Mile Buffer (none)
	Outstanding Resource Water Watersheds (none)
	Existing Structure
	Proposed Structure
	Overhead Eversource Line
	Overhead Distribution Line
	Underground Distribution Line
	Existing Right-of-Way (ROW)
	Off-ROW Access Pending Rights
	Existing Access
	Suggested Erosion and Sediment Control (TYP)
	AoT Disturbance Area - Pad
	AoT Disturbance Area - New Access
	Temporary Construction Matting
	Existing Gravel
	Stone Work Pad
	Eversource Owned Property
	State Owned Land
	LLN/Property Owner
	Parcel Boundary
	Municipal Boundary
	FEMA 100-Year Flood Zone
	Floodway
	2' Contours
	10' Contours
	Potential Vernal Pool
	Potential Vernal Pool Extent
	Delineated Perennial Stream
	Delineated Intermittent Stream
	Delineated Ephemeral Stream
	Delineated Wetland Boundary
	Field Delineated Wetland
	Priority Resource Area
	Open Water
	NHDES Protected Shoreland
	Rail Road
	GAS Approximate Gas Line
	Fence
	Berm
	Stone Wall (NPT)
	Gate
	Culvert
	Rare Species
	Rare Species
	Dry Land Sedge

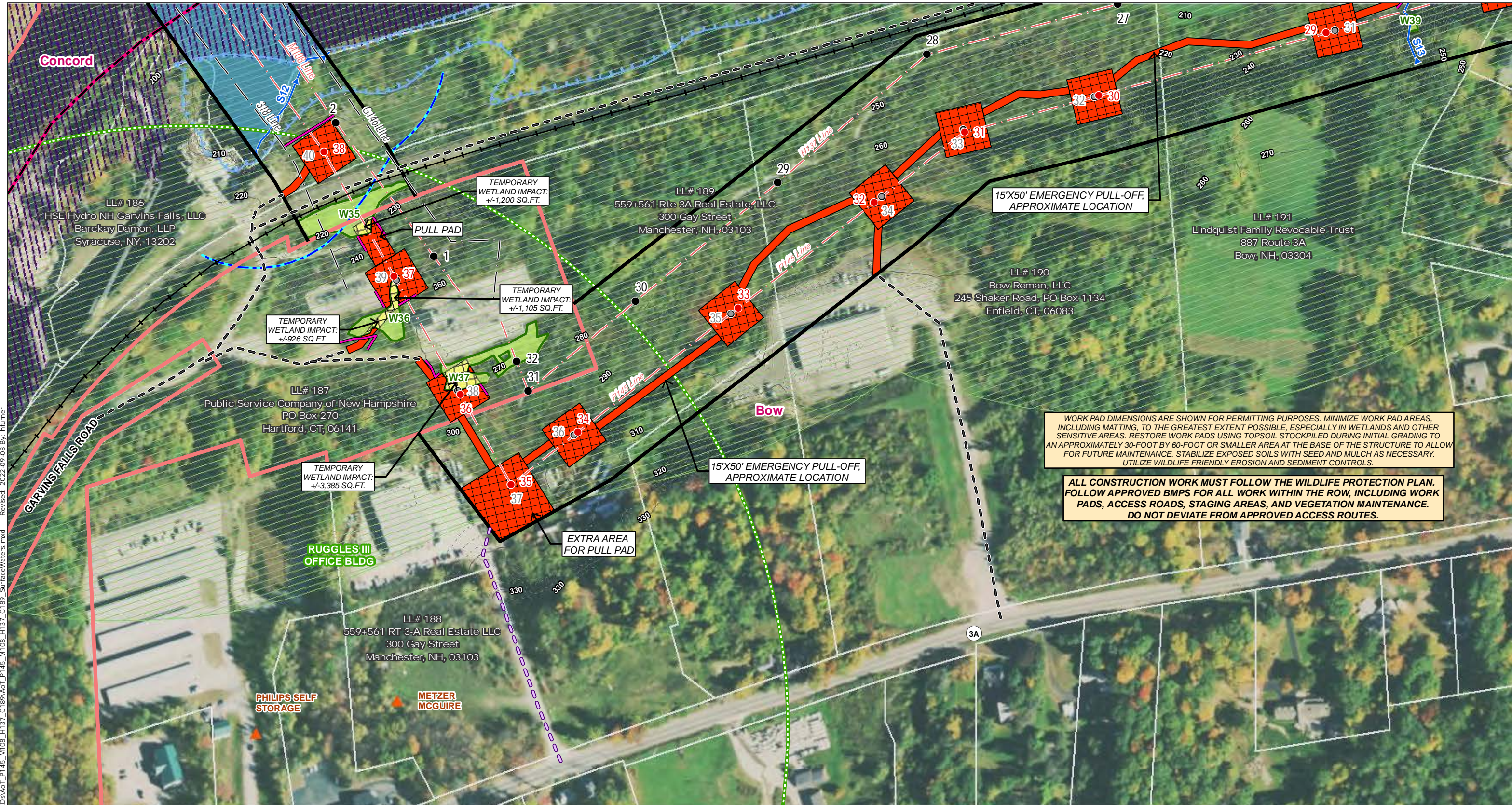
Map Notes:
 Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
 Data source: Eversource easement lines, structures, transmission lines provided by Eversource Energy. Wetlands/watercourses delineated and verified by Stantec October 2021.
 Additional source include: NH Granit
 Basemap: National Agriculture Imagery Program (NAIP) aerial imagery

1 inch = 200 feet

0 50 100 200 Feet



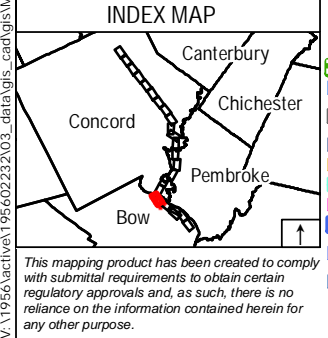
P145 Rebuild & H137/M108/C189 Structure Replacement Alteration of Terrain Surface Water and Groundwater Overlay Plans	
Bow & Concord, NH	MAP SHEET
Date: September 08, 2022	17 of 23



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 Revised: 2022-09-08 By: hturner

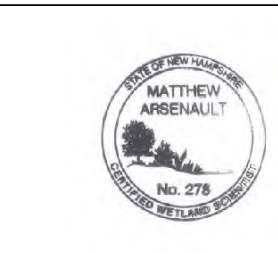
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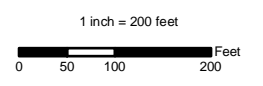


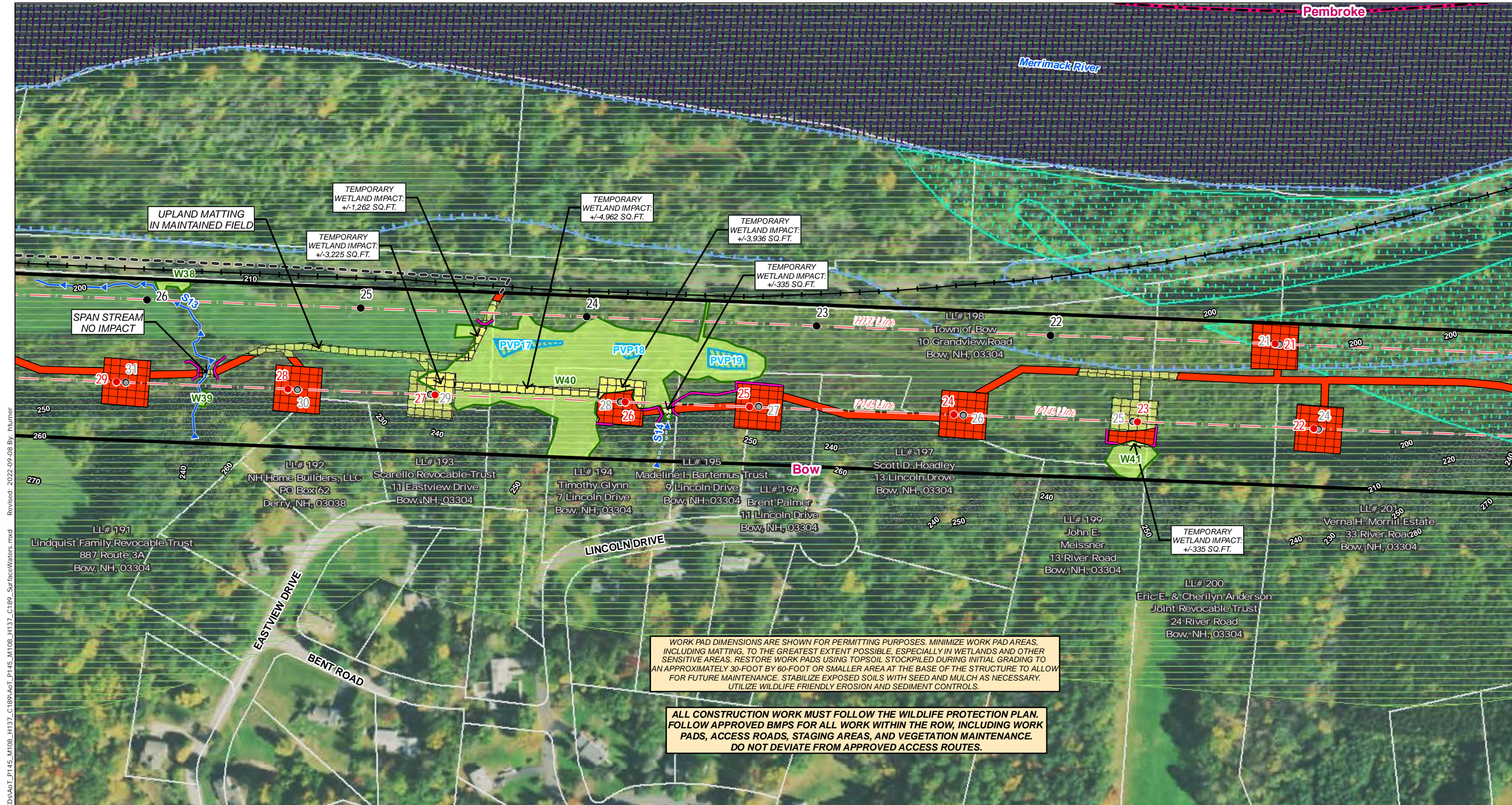
- Legend**
- ▲ Local Potential Contamination Sources
 - Wellhead Protection Areas
 - Class A Surface Waters RSA 485A9 (none)
 - Coastal and Great Bay Region Communities (none)
 - Designated Rivers Quartermile Buffer (none)
 - Groundwater Classification Areas GA1 (none)
 - Groundwater Classification Areas GA2
 - Groundwater Classification Areas GAA
 - All Lakes with a Quarter Mile Buffer
 - Class A Surface Waters RSA 485A9 Lakes Only Quarter Mile Buffer (none)
 - Outstanding Resource Water Watersheds (none)
 - Surface Waters with Impairments 2016 with Quarter Mile Buffer
 - Water Supply Intake Protection Areas (none)
 - Watersheds with Chloride Impairments 2016
 - Existing Structure
 - Existing Structure to be Removed
 - Proposed Structure
 - Overhead Eversource Line
 - Overhead Distribution Line
 - Underground Distribution Line
 - Existing Right-of-Way (ROW)
 - Off-ROW Access Pending Rights
 - Existing Access
 - Suggested Erosion and Sediment Control (TYP)
 - AoT Disturbance Area - Pad
 - AoT Disturbance Area - New Access
 - Temporary Construction Matting
 - Existing Gravel
 - Stone Work Pad
 - Eversource Owned Property
 - State Owned Land
 - LLN/Property Owner
 - Parcel Boundary
 - Municipal Boundary
 - FEMA 100-Year Flood Zone
 - Floodway
 - 2' Contours
 - 10' Contours
 - Potential Vernal Pool
 - Potential Vernal Pool Extent
 - Delineated Perennial Stream
 - Delineated Intermittent Stream
 - Delineated Ephemeral Stream
 - Delineated Wetland Boundary
 - Field Delineated Wetland
 - Priority Resource Area
 - Open Water
 - NHDES Protected Shoreland
 - Rail Road
 - GAS Approximate Gas Line
 - Fence
 - Berm
 - Stone Wall (NPT)
 - Gate
 - Culvert
 - Rare Species

Map Notes:
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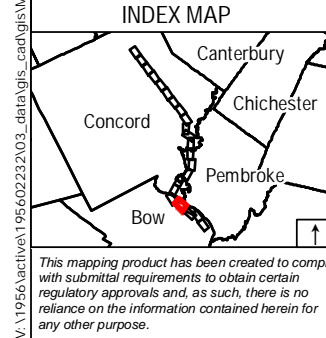


P145 Rebuild & H137/M108/C189 Structure Replacement Alteration of Terrain Surface Water and Groundwater Overlay Plans	
Bow, NH	MAP SHEET
Date: September 08, 2022	
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 Revised: 2022-09-08 By: hturner



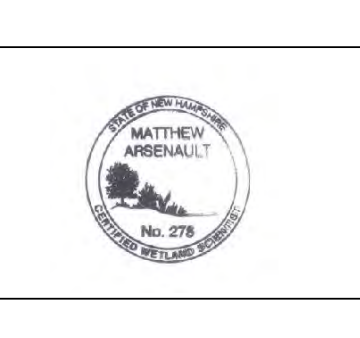
Legend

<ul style="list-style-type: none"> ▲ Local Potential Contamination Sources Wellhead Protection Areas Class A Surface Waters RSA 485A9 (none) Coastal and Great Bay Region Communities (none) Designated Rivers Quarter Mile Buffer (none) Groundwater Classification Areas GA1 (none) Groundwater Classification Areas GA2 Groundwater Classification Areas GAA All Lakes with a Quarter Mile Buffer Class A Surface Waters RSA 485A9 Lakes Only Quarter Mile Buffer (none) Outstanding Resource Water Watersheds (none) 	<ul style="list-style-type: none"> Surface Waters with Impairments 2016 with Quarter Mile Buffer Water Supply Intake Protection Areas (none) Watersheds with Chloride Impairments 2016 Existing Structure Existing Structure to be Removed Proposed Structure Overhead Eversource Line Overhead Distribution Line Underground Distribution Line Existing Right-of-Way (ROW) Off-ROW Access Pending Rights Existing Access Suggested Erosion and Sediment Control (TYP) 	<ul style="list-style-type: none"> AoT Disturbance Area - Pad AoT Disturbance Area - New Access Temporary Construction Matting Existing Gravel Stone Work Pad Eversource Owned Property State Owned Land LLN/Property Owner Parcel Boundary Municipal Boundary FEMA 100-Year Flood Zone Floodway 2' Contours Existing Access 10' Contours 	<ul style="list-style-type: none"> * Potential Vernal Pool Potential Vernal Pool Extent Delineated Perennial Stream Delineated Intermittent Stream Delineated Ephemeral Stream Delineated Wetland Boundary Field Delineated Wetland Priority Resource Area Open Water NHDES Protected Shoreland Rail Road GAS Approximate Gas Line Fence 	<ul style="list-style-type: none"> Berm Stone Wall (NPT) Gate Culvert Rare Species
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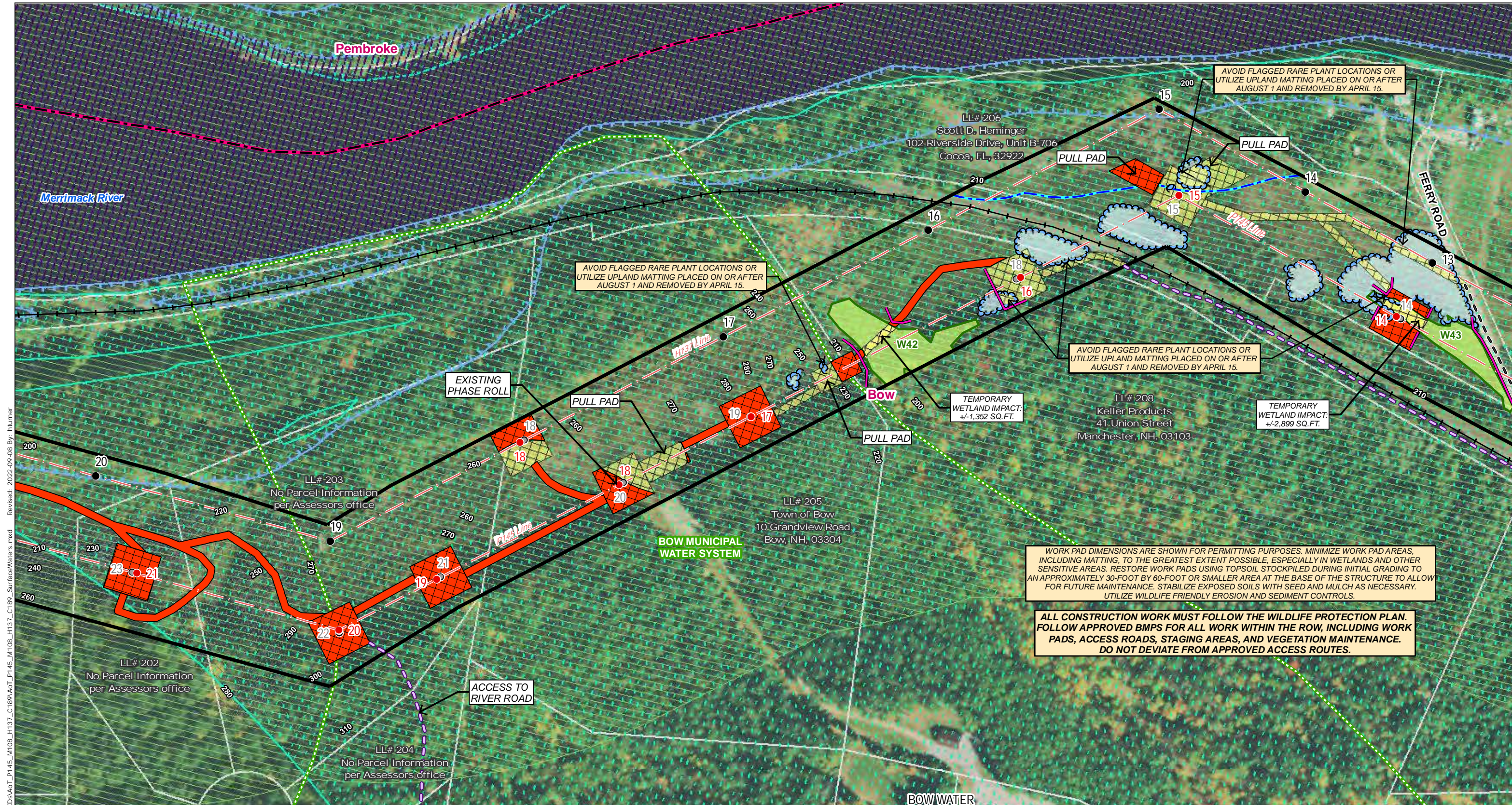
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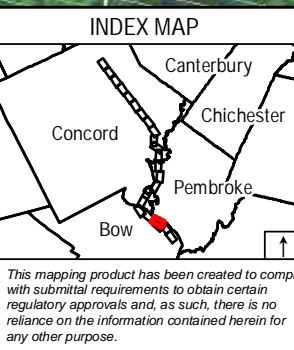
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EVERSOURCE ENERGY		Stantec	
P145 Rebuild & H137/M108/C189 Structure Replacement Alteration of Terrain Surface Water and Groundwater Overlay Plans			
Bow, NH		MAP SHEET	
Date: September 08, 2022		19 of 23	



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 Revised: 2022-09-08 By: hturner

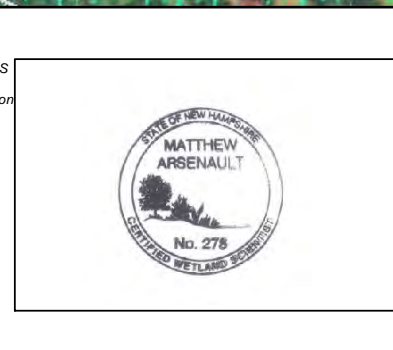


Legend	
	Local Potential Contamination Sources
	Wellhead Protection Areas
	Class A Surface Waters RSA 485A9 (none)
	Coastal and Great Bay Region Communities (none)
	Designated Rivers Quartermile Buffer (none)
	Groundwater Classification Areas GA1 (none)
	Groundwater Classification Areas GA2
	Groundwater Classification Areas GAA
	All Lakes with a Quarter Mile Buffer
	Class A Surface Waters RSA 485A9 Lakes Only Quarter Mile Buffer (none)
	Outstanding Resource Water Watersheds (none)
	Existing Structure
	Proposed Structure
	Overhead Eversource Line
	Overhead Distribution Line
	Underground Distribution Line
	Existing Right-of-Way (ROW)
	Off-ROW Access Pending Rights
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	Floodway
	2' Contours
	Existing Access
	10' Contours
	Potential Vernal Pool
	Potential Vernal Pool Extent
	Delineated Perennial Stream
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	GAS Approximate Gas Line
	Fence
	Berm
	Stone Wall (NPT)
	Gate
	Culvert
	Rare Species
	Rare Species
	Dry Land Sedge

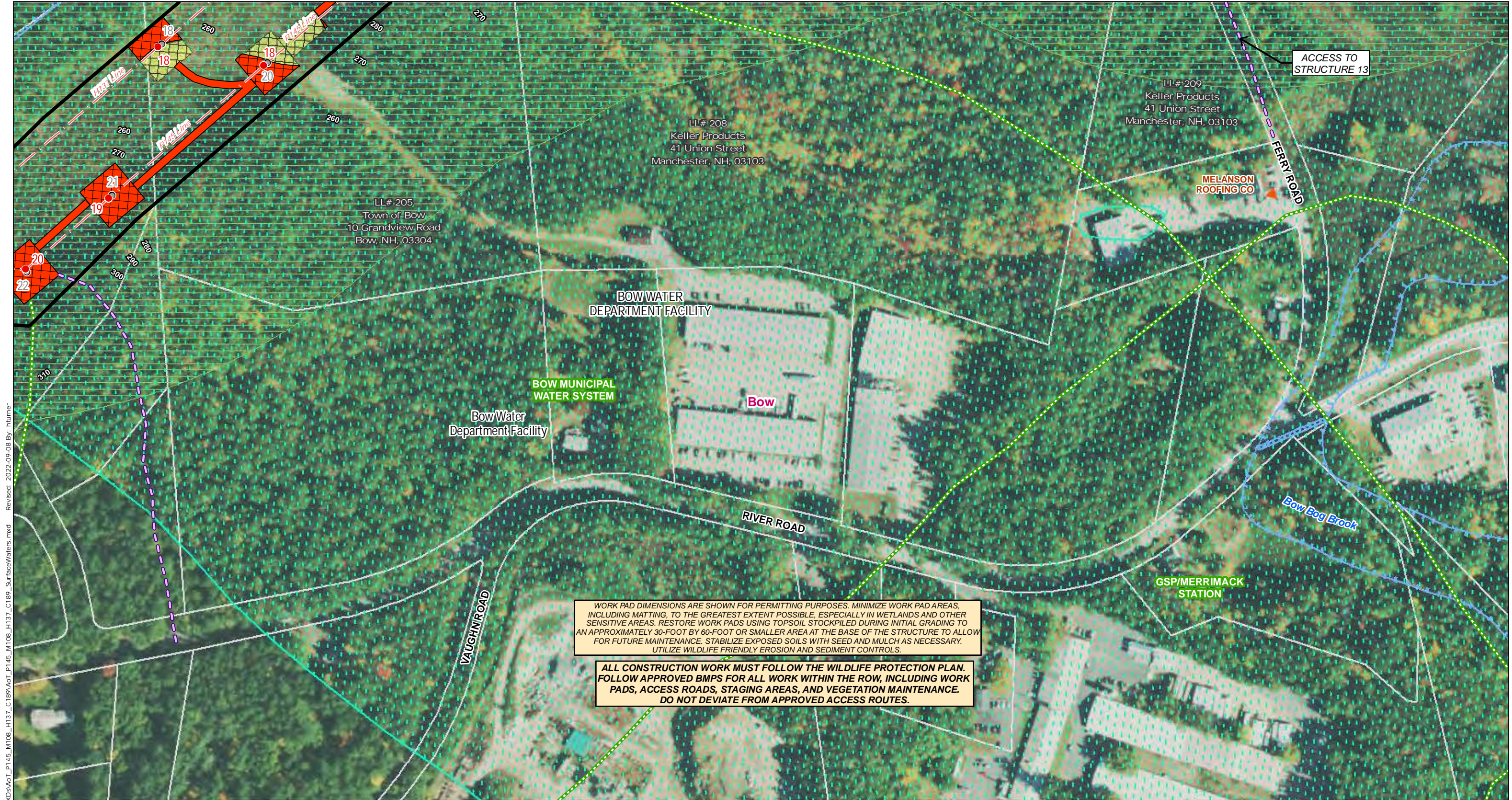
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0 50 100 200 Feet



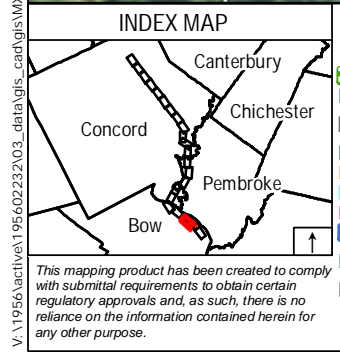
P145 Rebuild & H137/M108/C189 Structure Replacement Alteration of Terrain Surface Water and Groundwater Overlay Plans	
Bow, NH	MAP SHEET
Date: September 08, 2022	
20 of 23	



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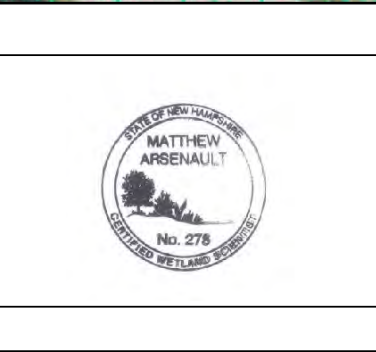
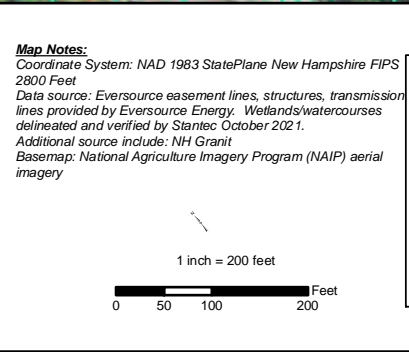
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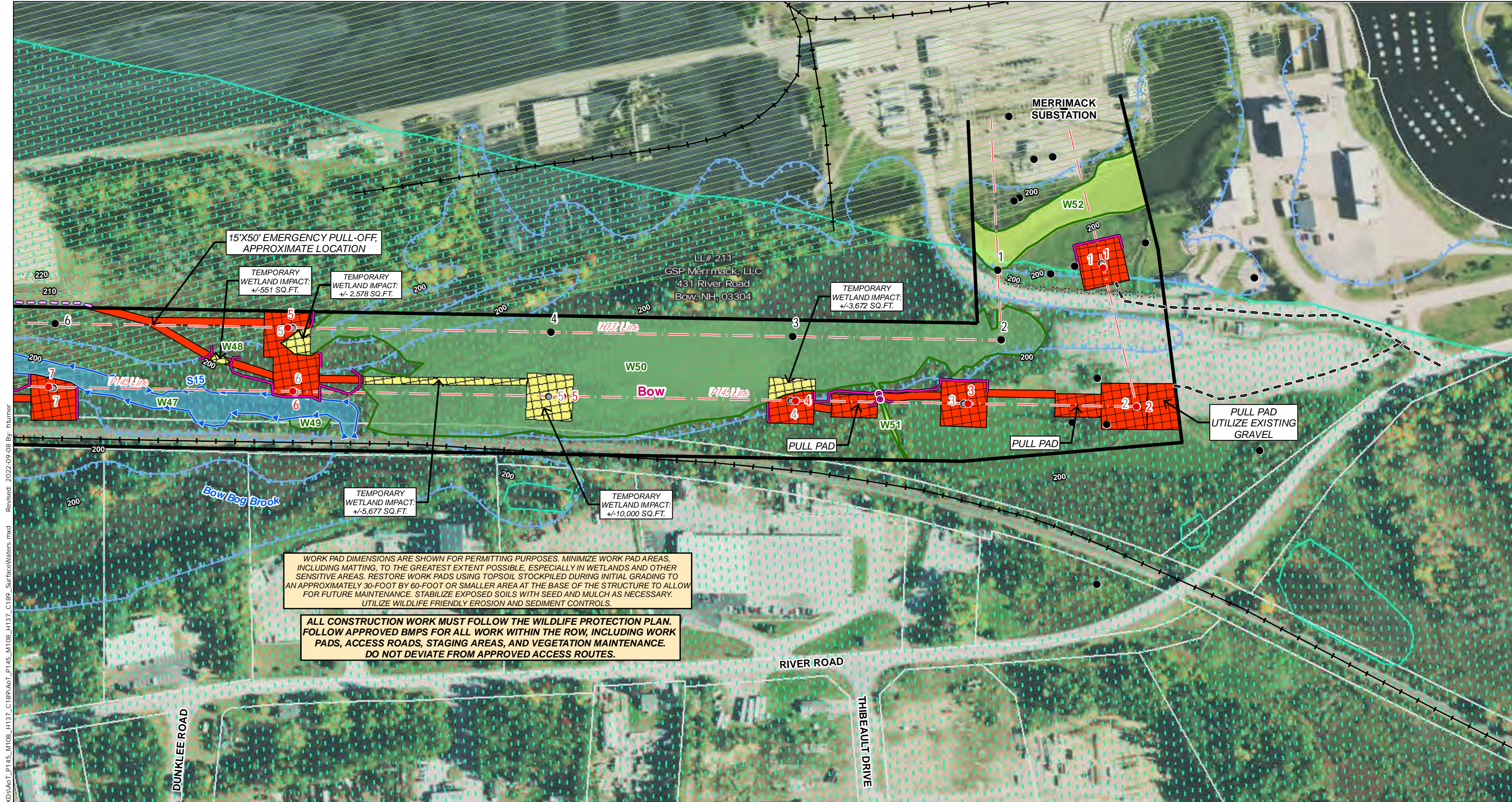


- Legend**
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 - Off-ROW Access Pending Rights
 - Existing Access
 - Suggested Erosion and Sediment Control (TYP)
 - AoT Disturbance Area - Pad
 - AoT Disturbance Area - New Access
 - Temporary Construction Matting
 - Existing Gravel
 - Stone Work Pad
 - State Owned Property
 - State Owned Land
 - LLN/Property Owner
 - Parcel Boundary
 - Municipal Boundary
 - FEMA 100-Year Flood Zone
 - Floodway
 - 2' Contours
 - 10' Contours
 - Potential Vernal Pool
 - Potential Vernal Pool Extent
 - Delineated Perennial Stream
 - Delineated Intermittent Stream
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 - Delineated Wetland Boundary
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 - NHDES Protected Shoreland
 - Rail Road
 - GAS Approximate Gas Line
 - X-X Fence
 - Berm
 - Stone Wall (NPT)
 - Gate
 - Culvert
 - Rare Species

- Map Notes:**
 Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet
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 Additional source include: NH Granit
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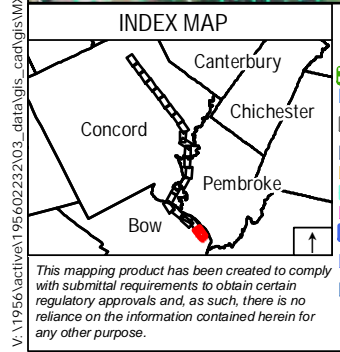
P145 Rebuild & H137/M108/C189 Structure Replacement Alteration of Terrain Surface Water and Groundwater Overlay Plans	
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 Revised: 2022-09-08 By: hturner

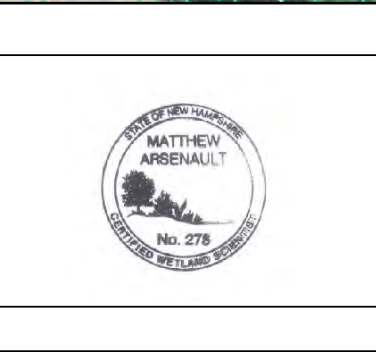
WORK PAD DIMENSIONS ARE SHOWN FOR PERMITTING PURPOSES. MINIMIZE WORK PAD AREAS, INCLUDING MATTING, TO THE GREATEST EXTENT POSSIBLE, ESPECIALLY IN WETLANDS AND OTHER SENSITIVE AREAS. RESTORE WORK PADS USING TOPSOIL STOCKPILED DURING INITIAL GRADING TO AN APPROXIMATELY 30-FOOT BY 60-FOOT OR SMALLER AREA AT THE BASE OF THE STRUCTURE TO ALLOW FOR FUTURE MAINTENANCE. STABILIZE EXPOSED SOILS WITH SEED AND MULCH AS NECESSARY. UTILIZE WILDLIFE FRIENDLY EROSION AND SEDIMENT CONTROLS.

ALL CONSTRUCTION WORK MUST FOLLOW THE WILDLIFE PROTECTION PLAN. FOLLOW APPROVED BMPS FOR ALL WORK WITHIN THE ROW, INCLUDING WORK PADS, ACCESS ROADS, STAGING AREAS, AND VEGETATION MAINTENANCE. DO NOT DEVIATE FROM APPROVED ACCESS ROUTES.

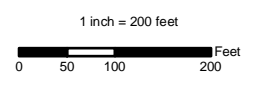


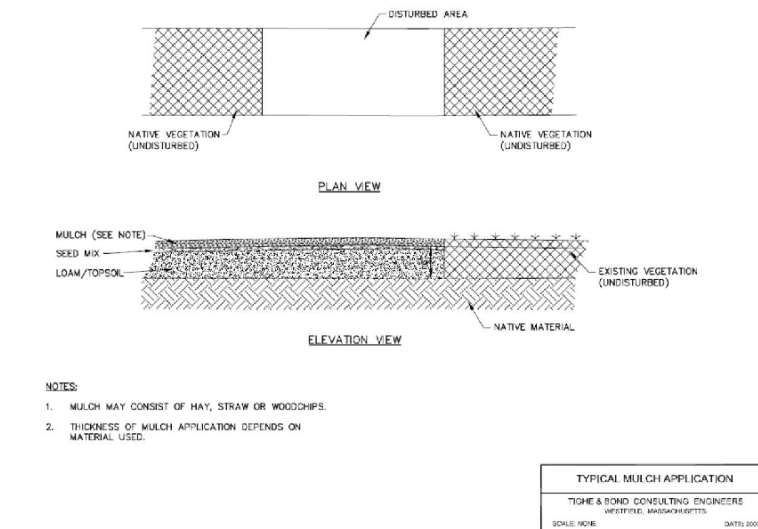
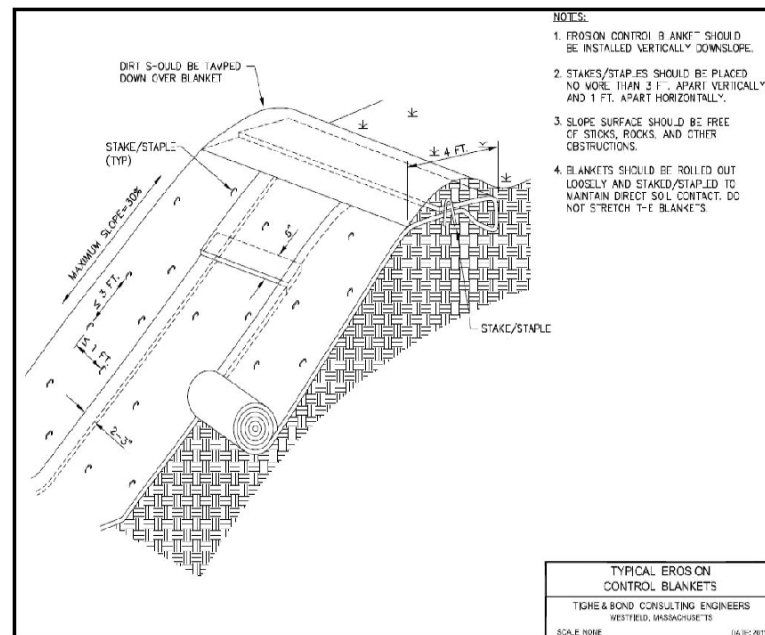
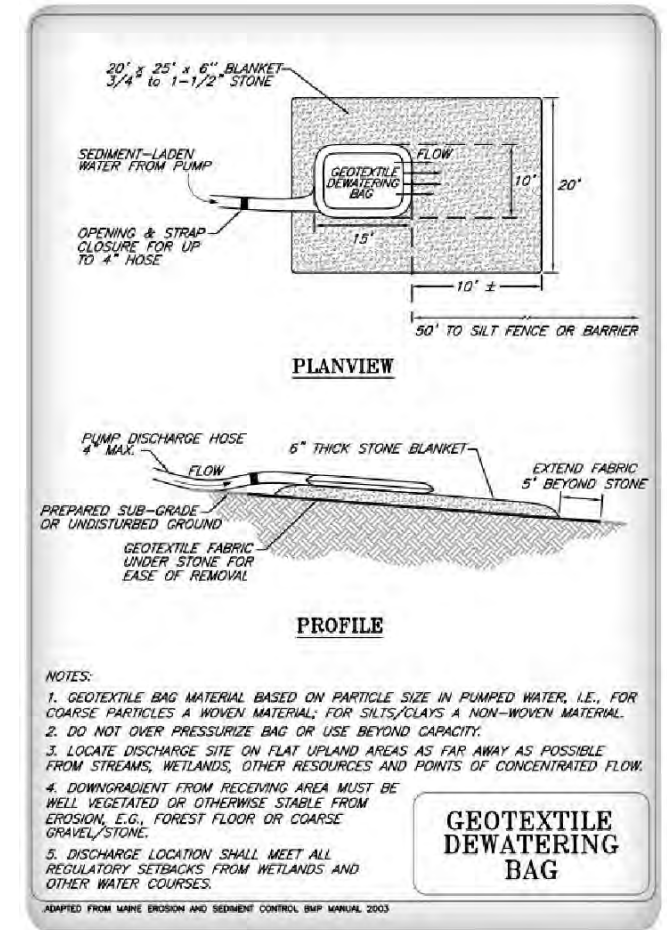
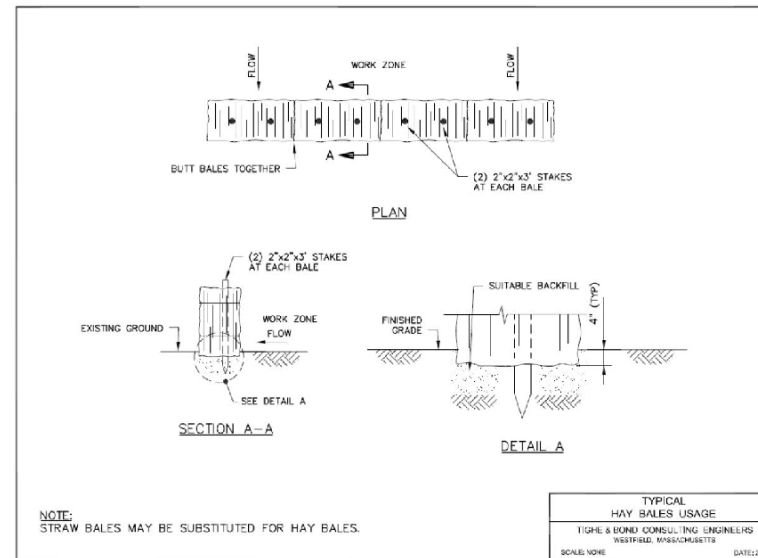
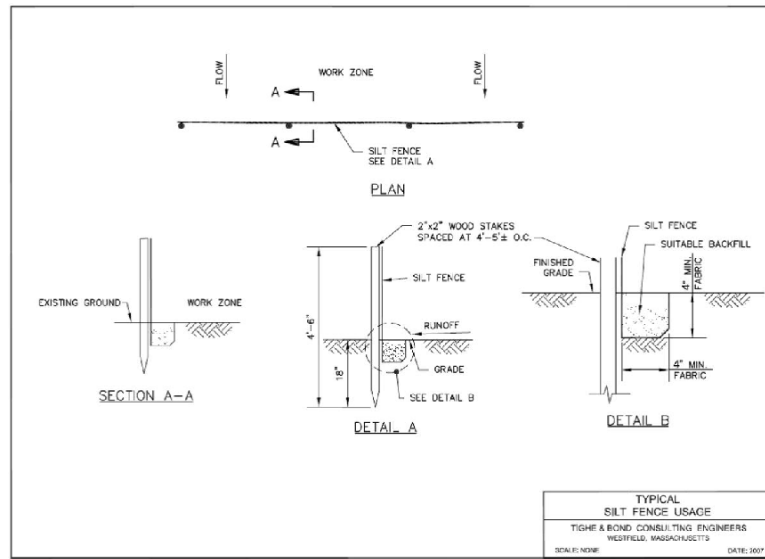
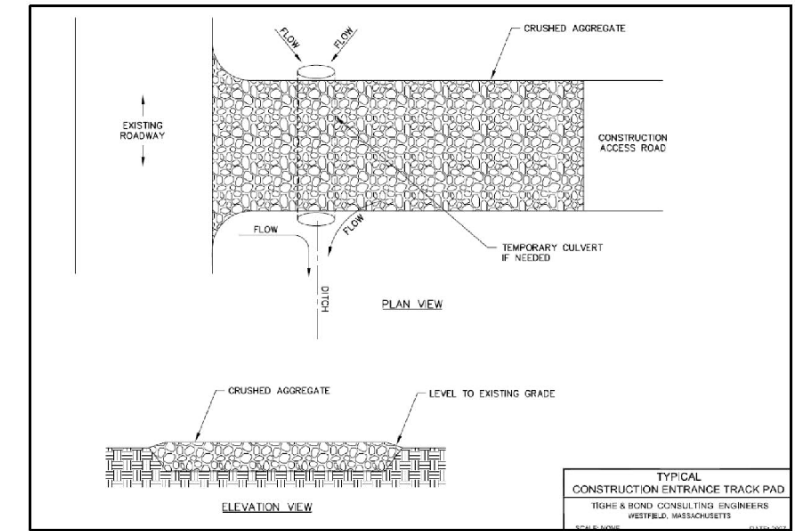
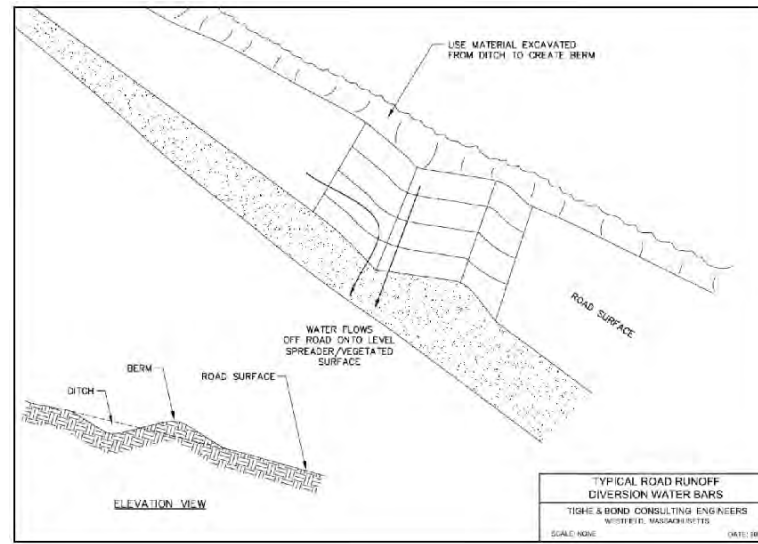
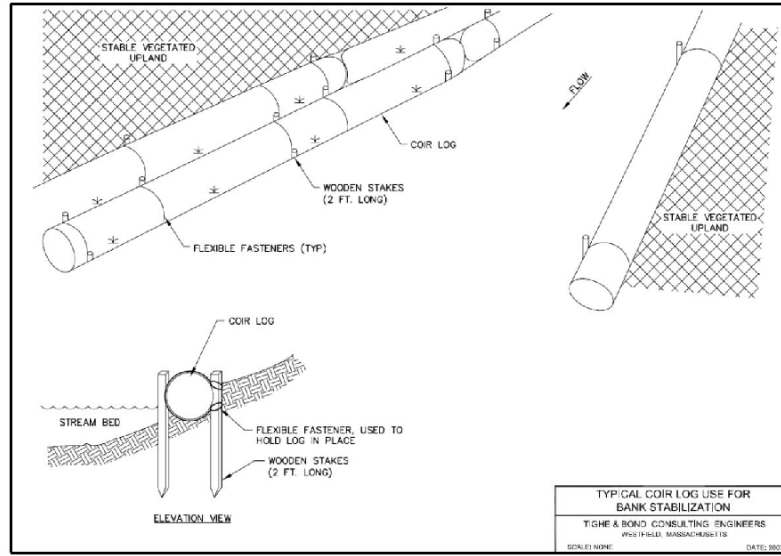
Legend	
	Local Potential Contamination Sources
	Wellhead Protection Areas
	Class A Surface Waters RSA 485A9 (none)
	Coastal and Great Bay Region Communities (none)
	Designated Rivers Quartermile Buffer (none)
	Groundwater Classification Areas GA1 (none)
	Groundwater Classification Areas GA2
	Groundwater Classification Areas GAA
	All Lakes with a Quarter Mile Buffer
	Class A Surface Waters RSA 485A9 Lakes Only Quarter Mile Buffer (none)
	Outstanding Resource Water Watersheds (none)
	Existing Structure
	Proposed Structure
	Overhead Eversource Line
	Overhead Distribution Line
	Underground Distribution Line
	Existing Right-of-Way (ROW)
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 C189 Structure Replacement**
 Alteration of Terrain
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 Notes and Details
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September 8, 2022

