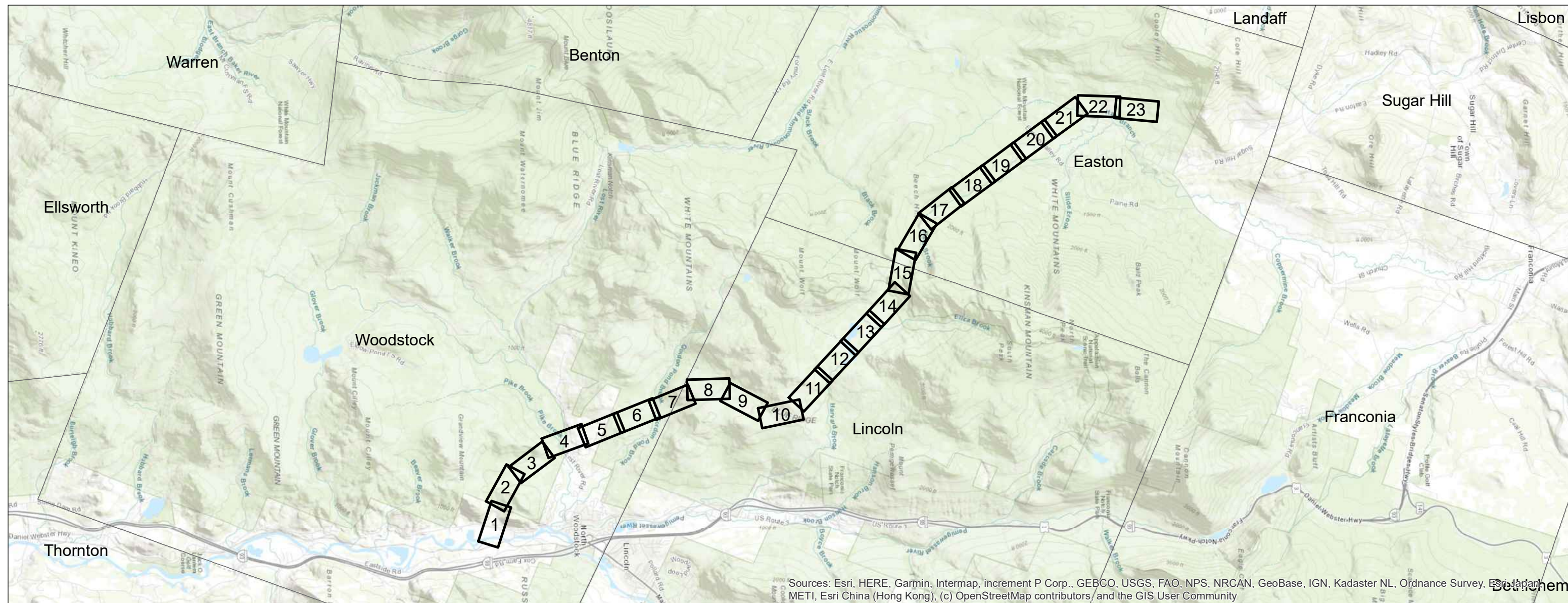


**X178-2 Transmission Line Structure Rebuild Project - Phase 2**

**WOODSTOCK, LINCOLN, AND EASTON, NEW HAMPSHIRE**  
**Environmental Permitting Planset**

Date: August 12, 2024

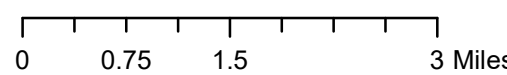


Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

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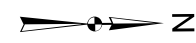


13 Legends Drive  
Hooksett, NH 03106



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PREPARED BY:



**GZA** GeoEnvironmental, Inc.  
Engineers and Scientists  
[www.gza.com](http://www.gza.com)

NO.	DATE	REVISIONS



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OPEN WATER WETLAND

POTENTIAL VERNAL POOL

TURTLE OVERWINTERING HABITAT

1 inch = 200 feet

0 50 100 200

Feet

NO.

DATE

REVISIONS

EVERSOURCE ENERGY

X178-2 Transmission Line Rebuild and OPGW Project

White Mountain National Forest

Woodstock, NH

Date: August 12, 2024

04.0191410.39

MAP SHEET

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DRAFT

APPROX. PD TEMP WETLAND MATTING IN WS-68.1: 2,374 SF

APPROX. PD TEMP WETLAND MATTING IN WS-69: 4,761 SF

APPROX. PD TEMP WETLAND MATTING IN WS-67.1: 153 SF

APPROX. PD TEMP WETLAND MATTING IN WS-68: 1,581 SF

APPROX. PD TEMP WETLAND MATTING IN WS-67: 1,386 SF

TREE CLEARING REQUIRED

ACTIVE FLOODPLAIN

CROSSING REQUIRES BRIDGE WITH SUPPORT IN-STREAM

EXISTING BRIDGE

Unnamed Stream

WS-66 PEM1EX

WS-68.1 PFO1/4EX/R4SB

WS-69 PSS1/EM1/FO1/4EX/R3UB

WS-68 PEM/SS1E/R4SB

WS-67.1 PFO1E

WS-67 PSS/EM1E

WS-65 PSS1/FO1/4B

WS-64 PSS/EM1Fg

WS-63 R2UB1/2

WS-61 R2UB1

WS-63.1 PSS1E/PUBx

112-002-000-00000 CAULDER CONSTRUCTION LLC 277 DANIEL WEBSTER HIGHWAY

112-008-000-00000 CAULDER CONSTRUCTION LLC DANIEL WEBSTER HIGHWAY

111-013-000-00000 ANDERSON STEVEN L 261 DANIEL WEBSTER HIGHWAY

111-014-000-000-00000 MARTELL EDWIN J 266 DANIEL WEBSTER HIGHWAY

111-022-000-000-00000 KIMBALL JOHN KIMBALL DRIVE

210-001-000-000-00000 KIMBALL JOHN OFF DANIEL WEBSTER HIGHWAY

111-023-000-000-00000 KIMBALL JOHN KIMBALL DRIVE

111-015-000-000-00000 O'NEIL LEEANNE 256 DANIEL WEBSTER HIGHWAY

111-017-000-000-00000 CHEVRETTE EUGENE O 228 DANIEL WEBSTER HWY

111-018-000-000-00000 NELSON MARK ADAM 214 DANIEL WEBSTER HWY

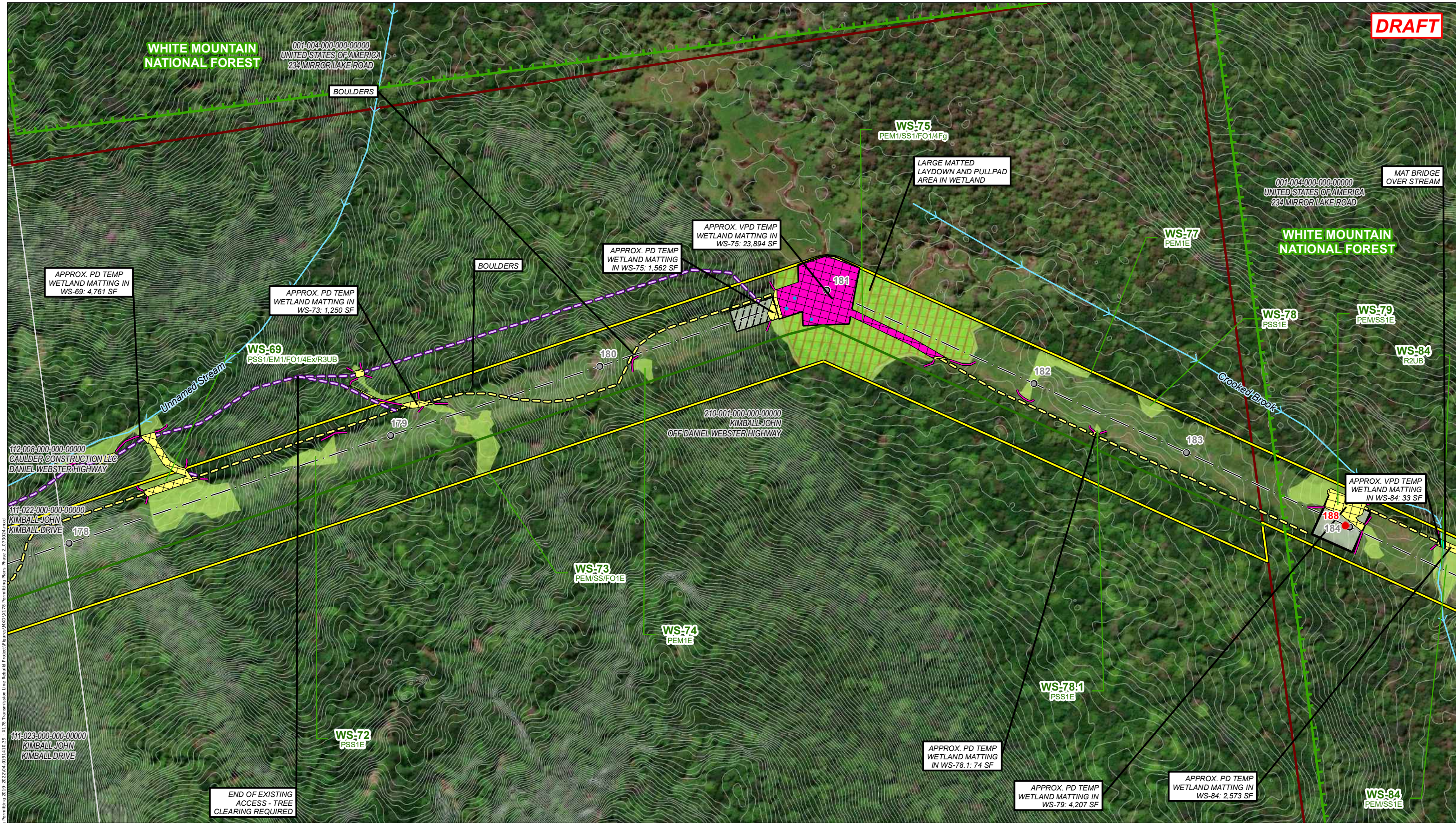
111-025-000-000-00000 BOTELHO RUSSELL 26 KIMBALL DRIVE

111-004-000-000-00000 STATE OF NEW HAMPSHIRE EASTSIDE ROAD

111-004-000-000-00000 STATE OF NEW HAMPSHIRE EASTSIDE ROAD

111-004-000-000-00000 STATE OF NEW HAMPSHIRE EASTSIDE ROAD

106-083-000-000-00000 STATE OF NEW HAMPSHIRE KANCAMAGUS HIGHWAY



DRAFT

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ENERGY

**X178-2 Transmission Line Rebuild and OPGW Project**  
**White Mountain National Forest**

Woodstock, NH

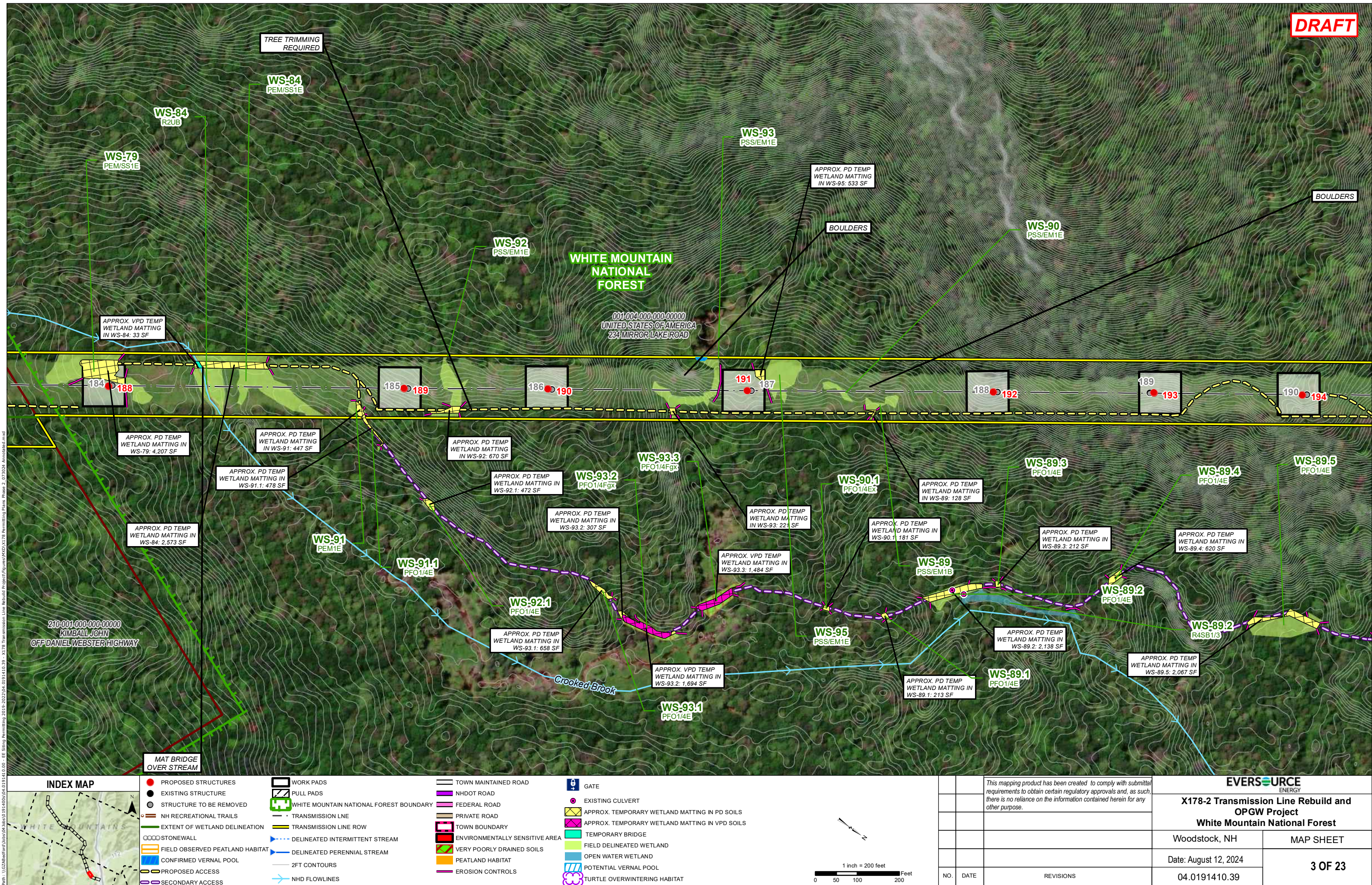
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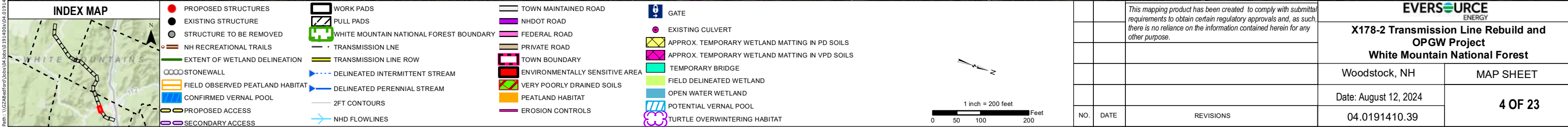
Date: August 12, 2024

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**DRAFT**





**DRAFT**

APPROX. PD TEMP WETLAND MATTING IN WS-99: 1,977 SF

WS-99 PEM/SS1E/Fg

206-044-000-000-00000 SANDERS, TRUSTEES LYNDA F & DONALD B LOST RIVER ROAD

APPROX. PD TEMP WETLAND MATTING IN WS-99.1: 128 SF

WS-99.1 PSS/EM1E

APPROX. PD TEMP WETLAND MATTING IN WS-100: 2,380 SF

206-042-000-000-00000 FADDEN SUZANNE MOUNTAIN SIDE ROAD

WS-102 PEM/SS1E

WS-105 R2UB

APPROX. VPD TEMP WETLAND MATTING IN WS-100: 3,654 SF

195 199 200 196 197 201 202 198 199 203 200 204 201 205

PT156

104-025-000-000-00000 LONG, TRUSTEES CANDACE A & JEFFREY O PINEAULT 10 GREY SQUIRREL ROAD

104-027-000-000-00000 KEDILAYA, SUMANTH 73 SNOW KING ROAD

104-028-000-000-00000 DAY MARTIN C 85 SNOW KING ROAD

103-002-000-000-00000 TOWN OF WOODSTOCK SUNDANCE ROAD

201-001-000-000-00000 YUKELJA IVA BLAZINA 150 SUNDANCE ROAD

001-004-000-000-00000 UNITED STATES OF AMERICA 234 MIRROR LAKE ROAD

WHITE MOUNTAIN NATIONAL FOREST

APPROX. PD TEMP WETLAND MATTING IN WS-105: 4,653 SF

BLUE BLAZE HIKING TRAIL

WS-100 PEM/SS1E/Fg

WS-103 PEM/SS1E

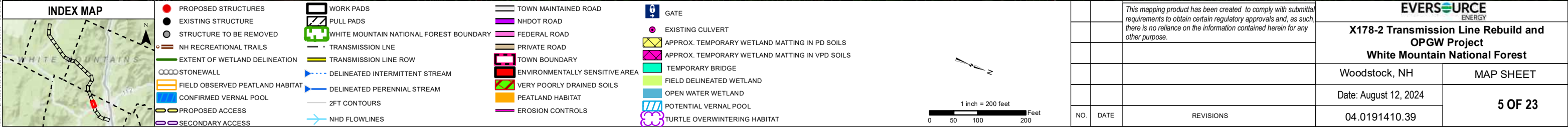
WS-105 PEM/SS1E/Fg

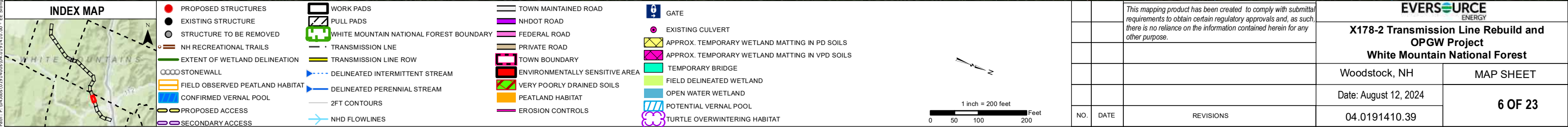
Snow King Rd

Sundance Rd

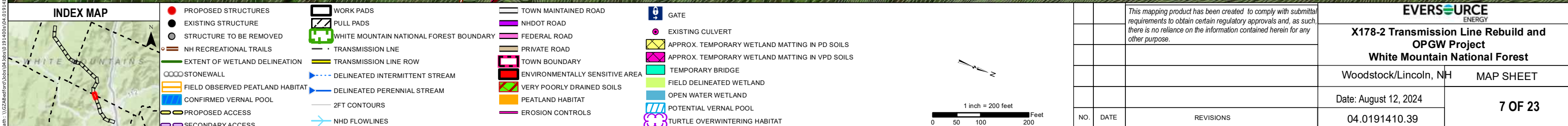
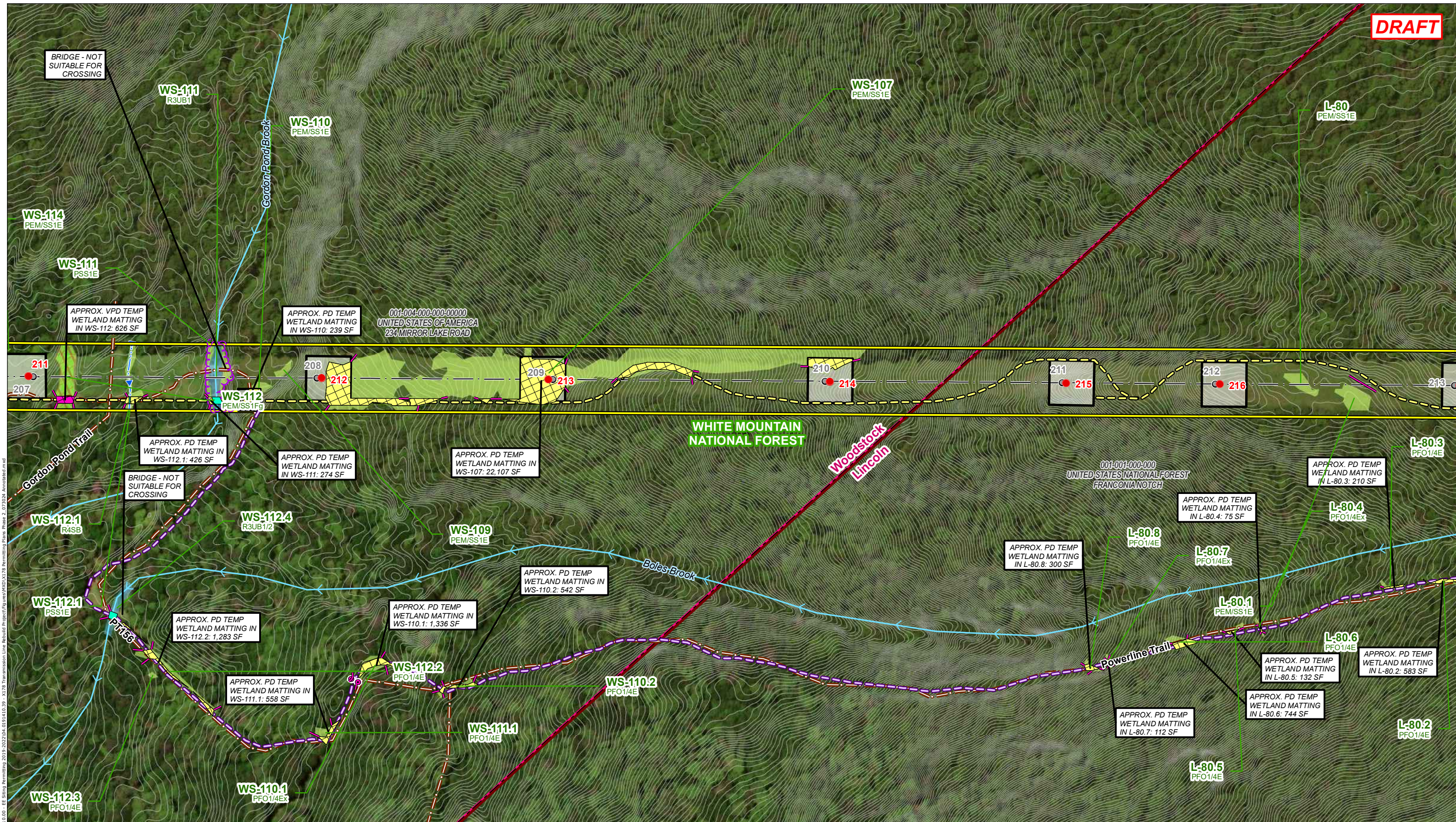
Gordon Pond Trail

Black Bear

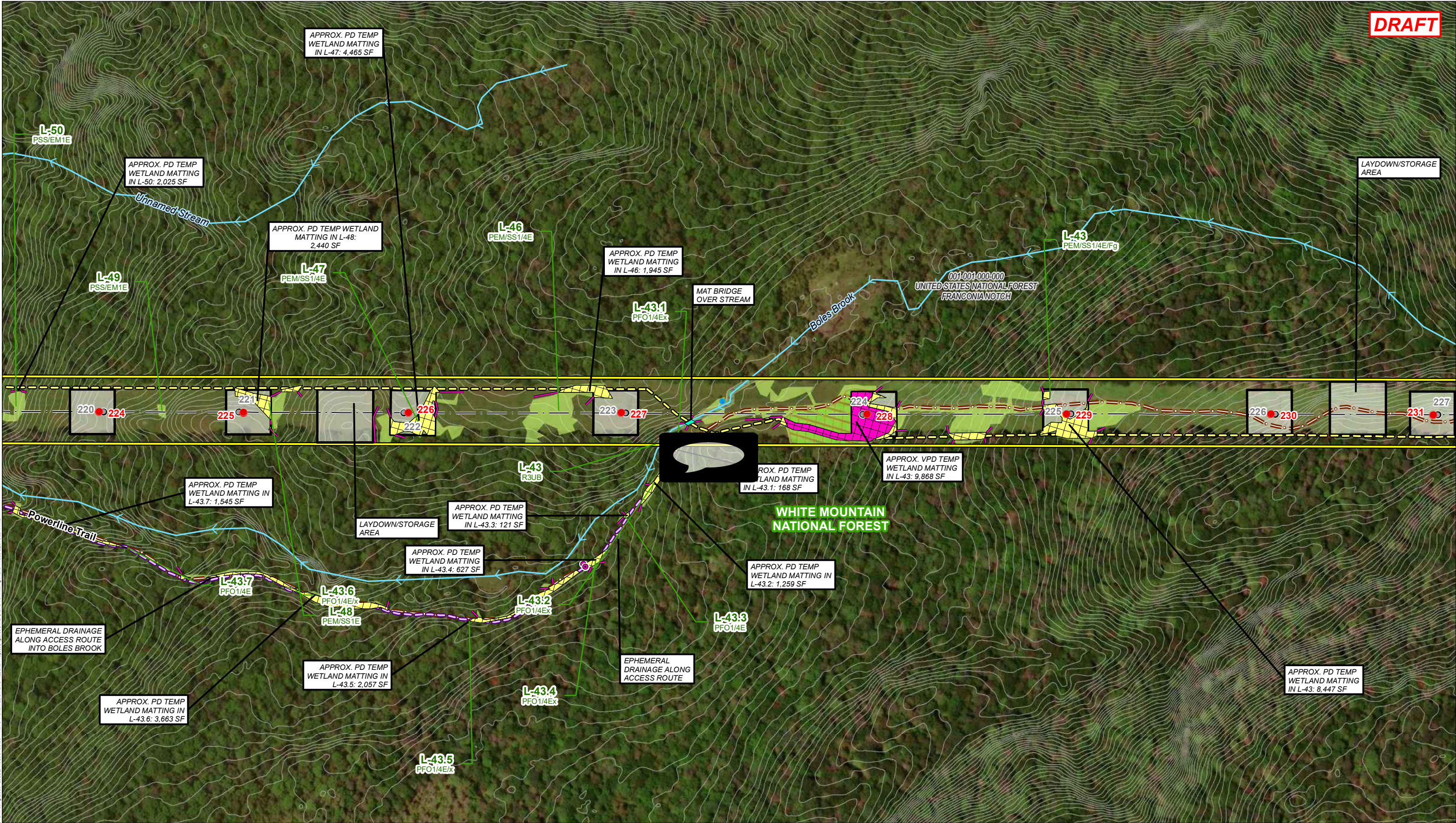




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DELINEATED PERENNIAL STREAM

2FT CONTOURS

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NH DOT ROAD

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PRIVATE ROAD

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ENVIRONMENTALLY SENSITIVE AREA

VERY POORLY DRAINED SOILS

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GATE

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APPROX. TEMPORARY WETLAND MATTING IN VPD SOILS

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OPEN WATER WETLAND

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TURTLE OVERWINTERING HABITAT

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NO. DATE REVISIONS

EVERSOURCE ENERGY

X178-2 Transmission Line Rebuild and OPGW Project

White Mountain National Forest

Lincoln, NH

Date: August 12, 2024

04.0191410.39

MAP SHEET

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1 inch = 200 feet

0 50 100 200 Feet

1

2



**DRAFT**

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**EVERSOURCE**  
ENERGY

**X178-2 Transmission Line Rebuild and OPGW Project**  
**White Mountain National Forest**

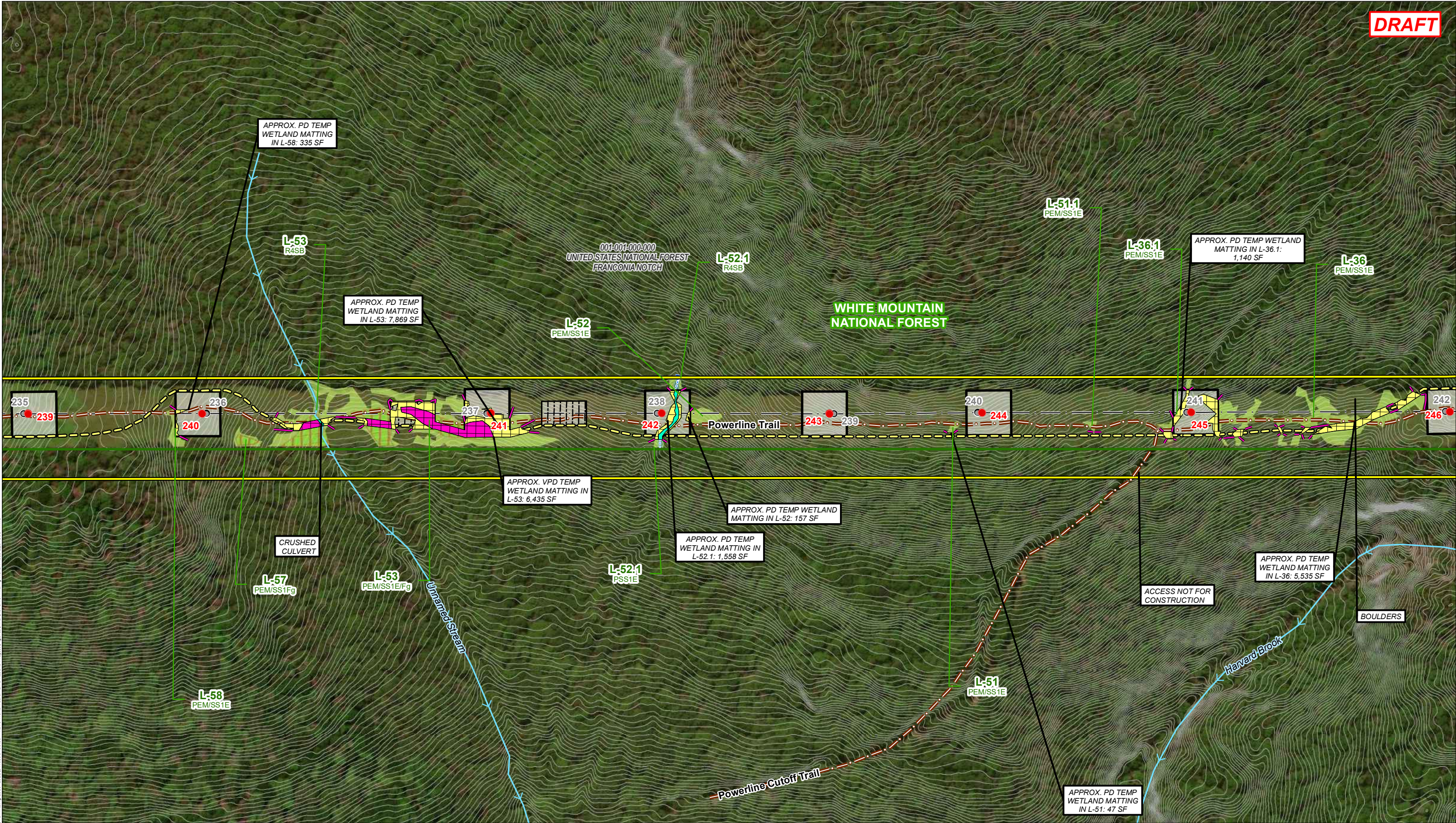
Lincoln, NH

MAP SHEET

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1 inch = 200 feet

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**EVERSOURCE**  
ENERGY

**X178-2 Transmission Line Rebuild and OPGW Project**

**White Mountain National Forest**

Lincoln, NH

Date: August 12, 2024

04.0191410.39

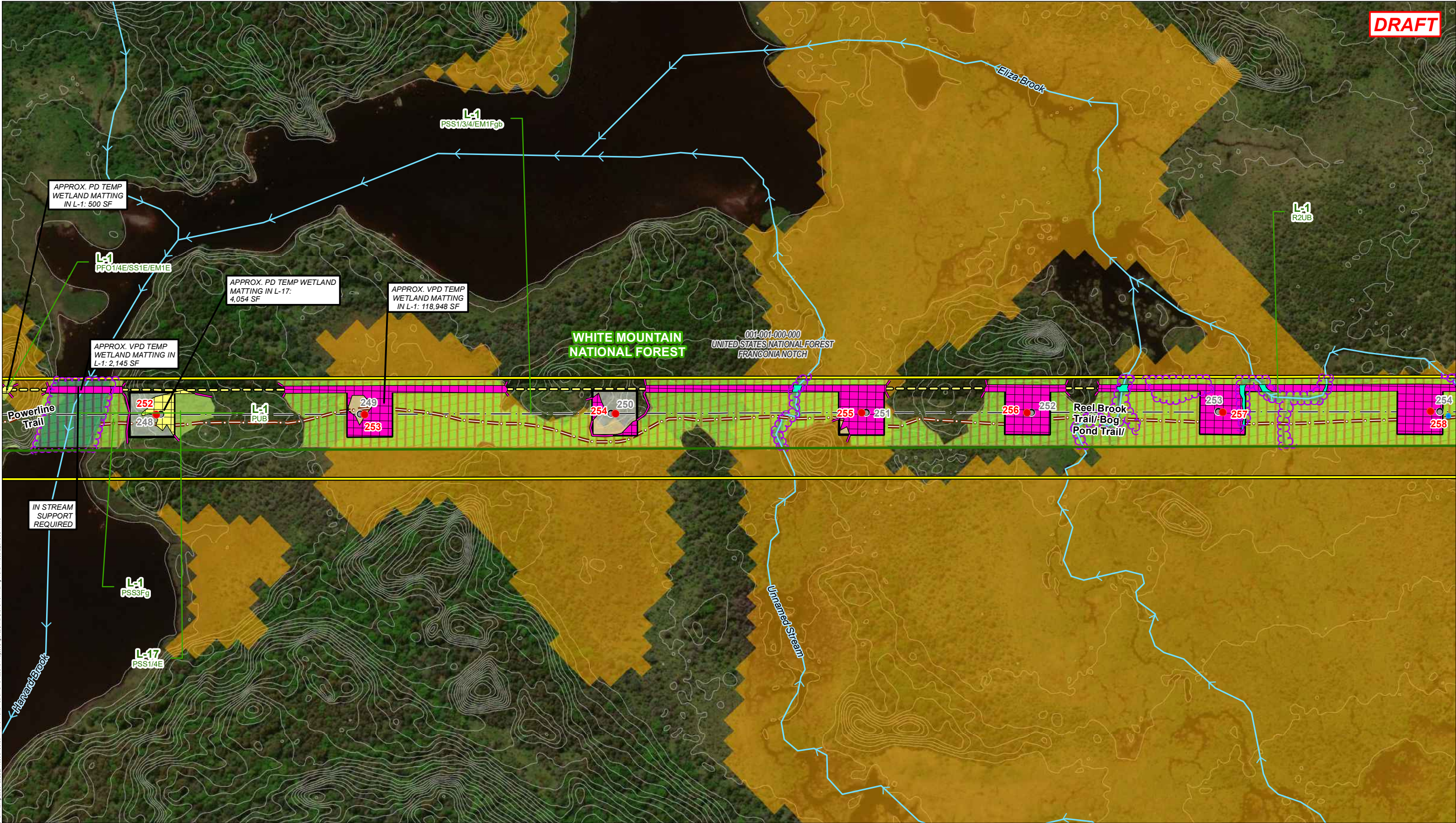
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**X178-2 Transmission Line Rebuild and OPGW Project**  
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**DRAFT**

001-001-000-000  
UNITED STATES NATIONAL FOREST  
FRANCONIA NOTCH

WHITE MOUNTAIN NATIONAL FOREST

Eliza Brook

Real Brook Trail/Bog Pond Trail

Unnamed Stream

Kinsman Ridge Trail

NATIONAL PARK SERVICE  
APPALACHIAN TRAIL

L-1  
PSS1/3/4/EM1Fgb

L-1  
R2UB

L-5  
PEM/SS1/4Fg

L-11  
PSS/EM1E

L-6  
PFO1/4E

L-5  
PFO1/4Fg

L-10  
PEM1/SS1/4Fg

APPROX. VPD TEMP  
WETLAND MATTING  
IN L-1: 118,948 SF

APPROX. VPD TEMP  
WETLAND MATTING  
IN L-5: 4,936 SF

APPROX. PD TEMP  
WETLAND MATTING  
IN L-11: 169 SF

APPROX. VPD TEMP  
WETLAND MATTING  
IN L-10: 4,828 SF

CLIFF - NOT  
PASSABLE

254  
258

255  
259

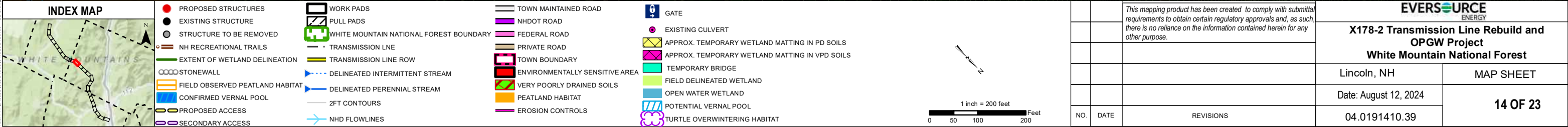
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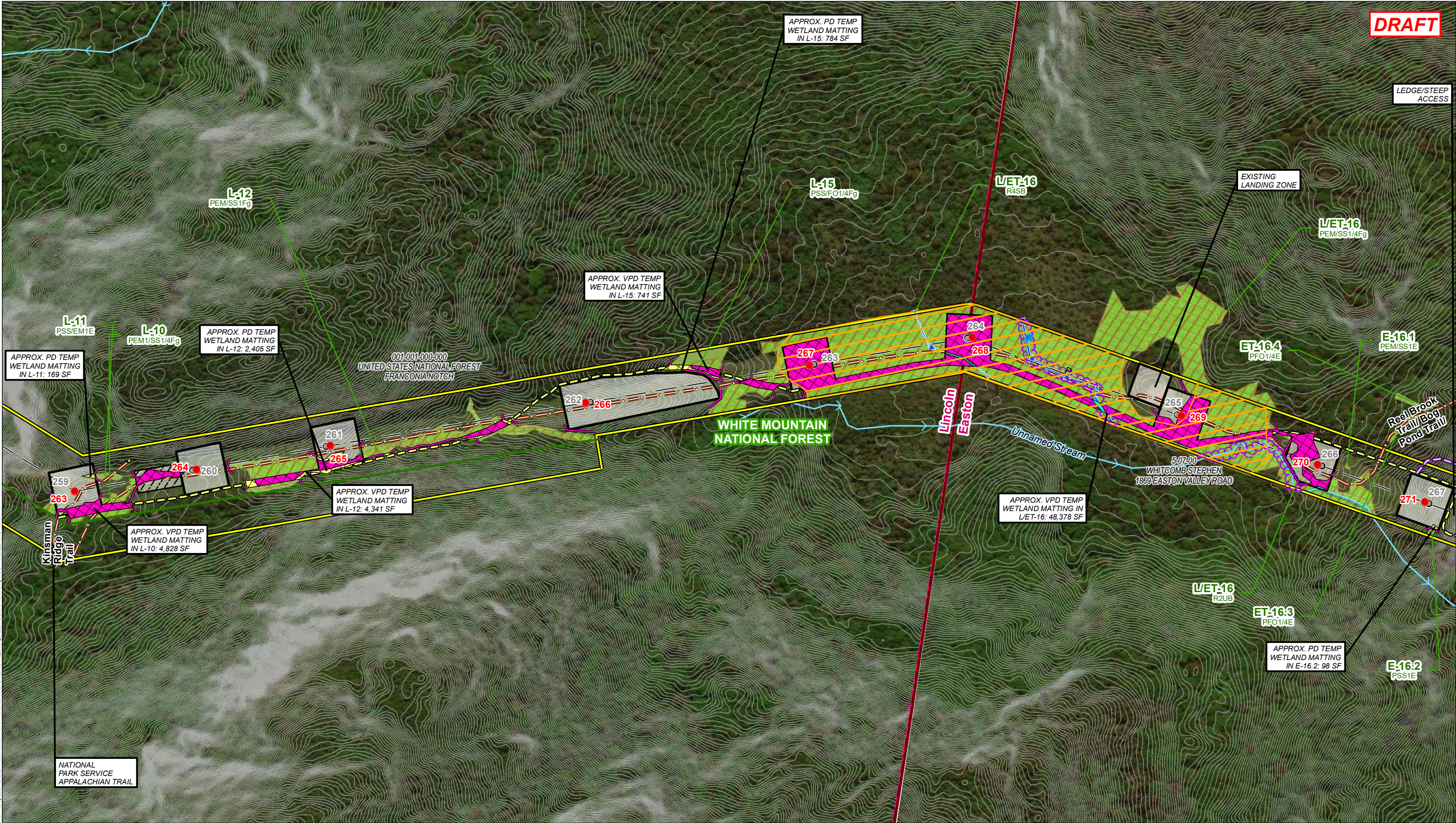
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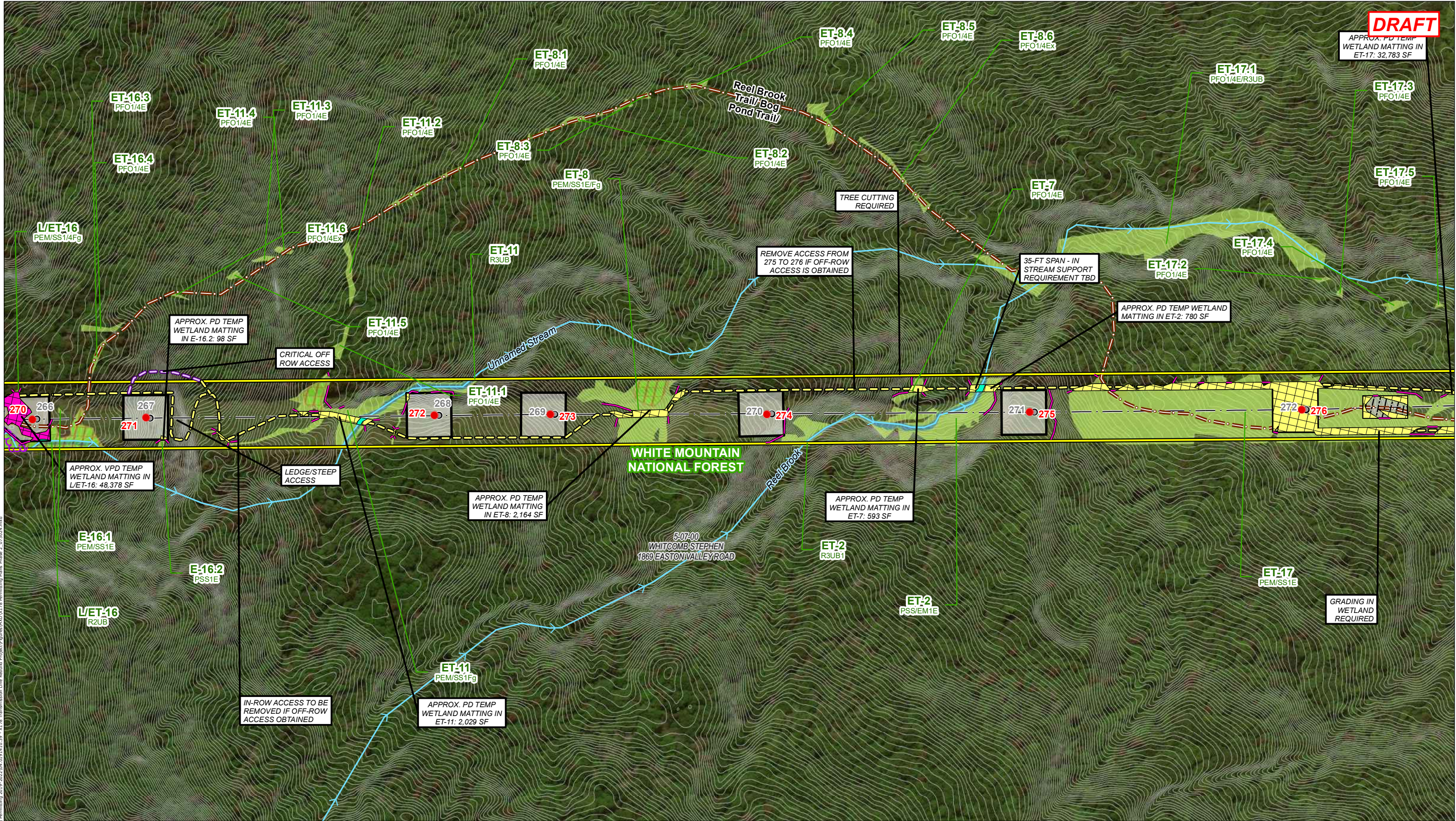
Lincoln/Easton, NH

MAP SHEET

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**DRAFT**

APPROX. PD TEMP  
WETLAND MATTING IN  
ET-17: 32,783 SF

ET-17.3  
PFO1/4E

ET-17.5  
PFO1/4E

ET-17.1  
PFO1/4E/R3UB

ET-17.2  
PFO1/4E

ET-17.4  
PFO1/4E

APPROX. PD TEMP WETLAND  
MATTING IN ET-2: 780 SF

ET-7  
PFO1/4E

ET-8.6  
PFO1/4Ex

ET-8.5  
PFO1/4E

ET-8.4  
PFO1/4E

ET-8.2  
PFO1/4E

ET-8.1  
PFO1/4E

ET-8.3  
PFO1/4E

ET-8  
PEM/SS1E/Fg

ET-11  
R3UB

ET-11.5  
PFO1/4E

ET-11.6  
PFO1/4Ex

ET-11.3  
PFO1/4E

ET-11.4  
PFO1/4E

ET-16.3  
PFO1/4E

ET-16.4  
PFO1/4E

L/ET-16  
PEM/SS1/4Fg

TREE CUTTING  
REQUIRED

REMOVE ACCESS FROM  
275 TO 276 IF OFF-ROW  
ACCESS IS OBTAINED

35-FT SPAN - IN  
STREAM SUPPORT  
REQUIREMENT TBD

CRITICAL OFF  
ROW ACCESS

APPROX. PD TEMP  
WETLAND MATTING  
IN E-16.2: 98 SF

LEDGE/STEEP  
ACCESS

APPROX. VPD TEMP  
WETLAND MATTING IN  
L/ET-16: 48,378 SF

WHITE MOUNTAIN  
NATIONAL FOREST

APPROX. PD TEMP  
WETLAND MATTING IN  
ET-7: 593 SF

APPROX. PD TEMP  
WETLAND MATTING  
IN ET-8: 2,164 SF

APPROX. PD TEMP  
WETLAND MATTING IN  
ET-11: 2,029 SF

IN-ROW ACCESS TO BE  
REMOVED IF OFF-ROW  
ACCESS OBTAINED

GRADING IN  
WETLAND  
REQUIRED

ET-17  
PEM/SS1E

ET-2  
PSS/EM1E

ET-2  
R3UB1

5-07-00  
WHITCOMB/STEPHEN  
1869 EASTON VALLEY ROAD

ET-11  
PEM/SS1Fg

E-16.2  
PSS1E

E-16.1  
PEM/SS1E

L/ET-16  
R2UB

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GATE

EXISTING CULVERT

APPROX. TEMPORARY WETLAND MATTING IN PD SOILS

APPROX. TEMPORARY WETLAND MATTING IN VPD SOILS

TEMPORARY BRIDGE

FIELD DELINEATED WETLAND

OPEN WATER WETLAND

POTENTIAL VERNAL POOL

TURTLE OVERWINTERING HABITAT

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.

**EVERSOURCE**  
ENERGY

**X178-2 Transmission Line Rebuild and  
OPGW Project**

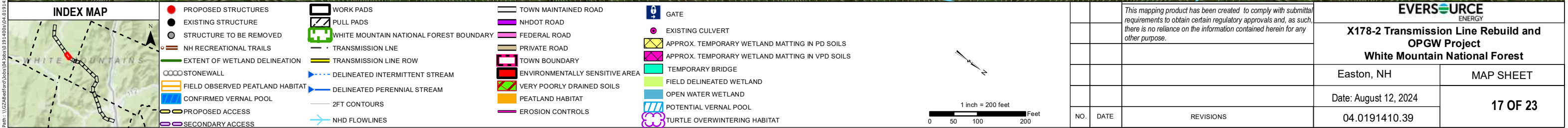
**White Mountain National Forest**

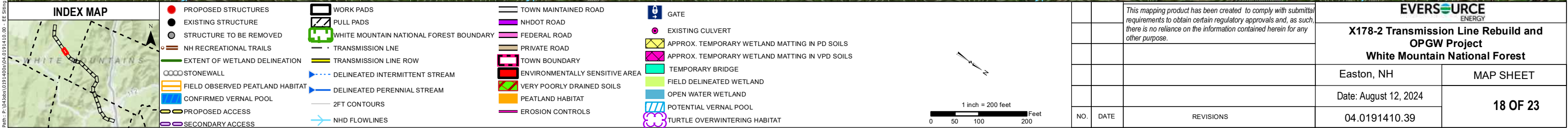
Easton, NH	MAP SHEET
Date: August 12, 2024	16 OF 23
04.0191410.39	

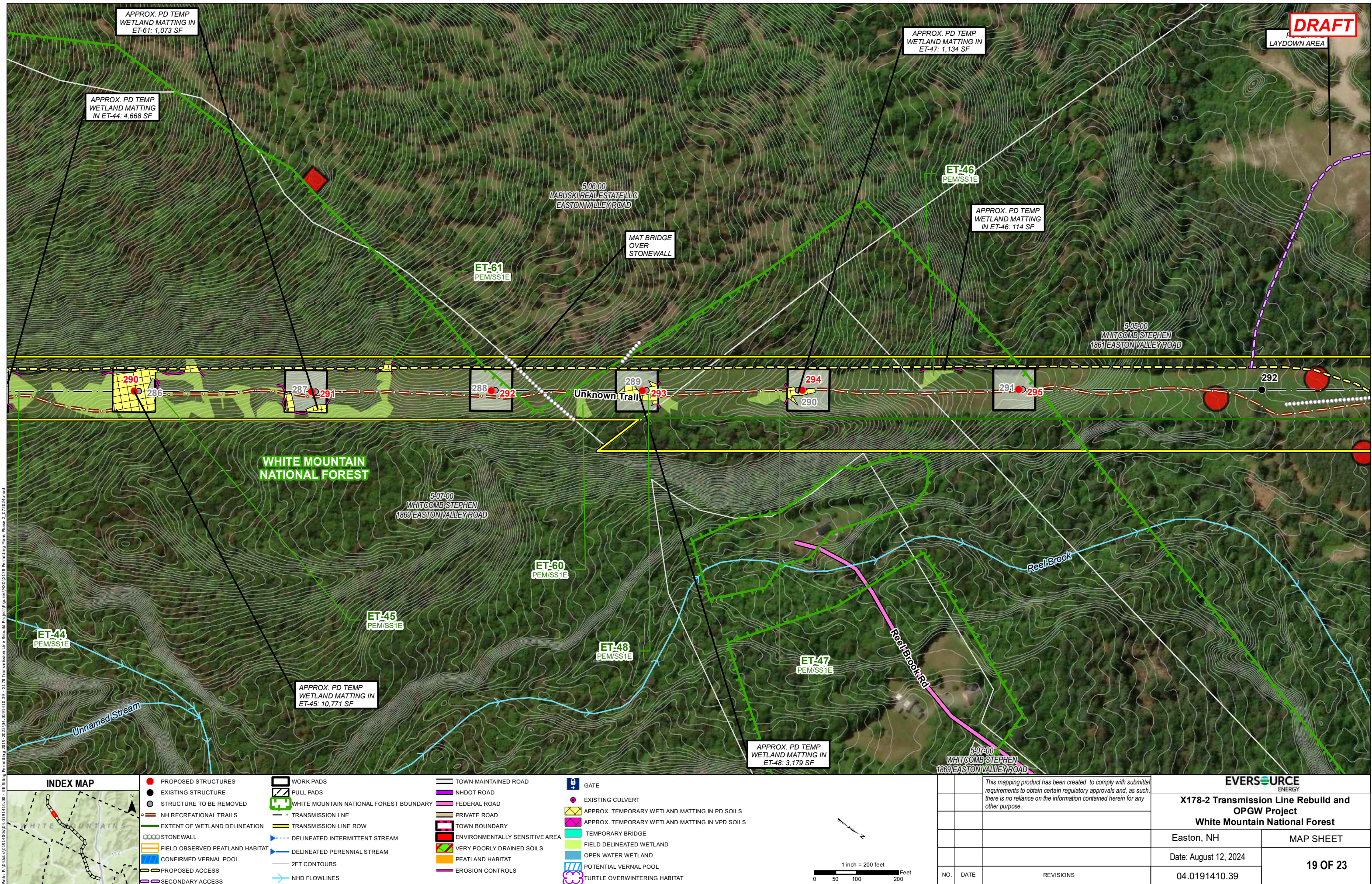
NO.	DATE	REVISIONS

1 inch = 200 feet

0 50 100 200 Feet



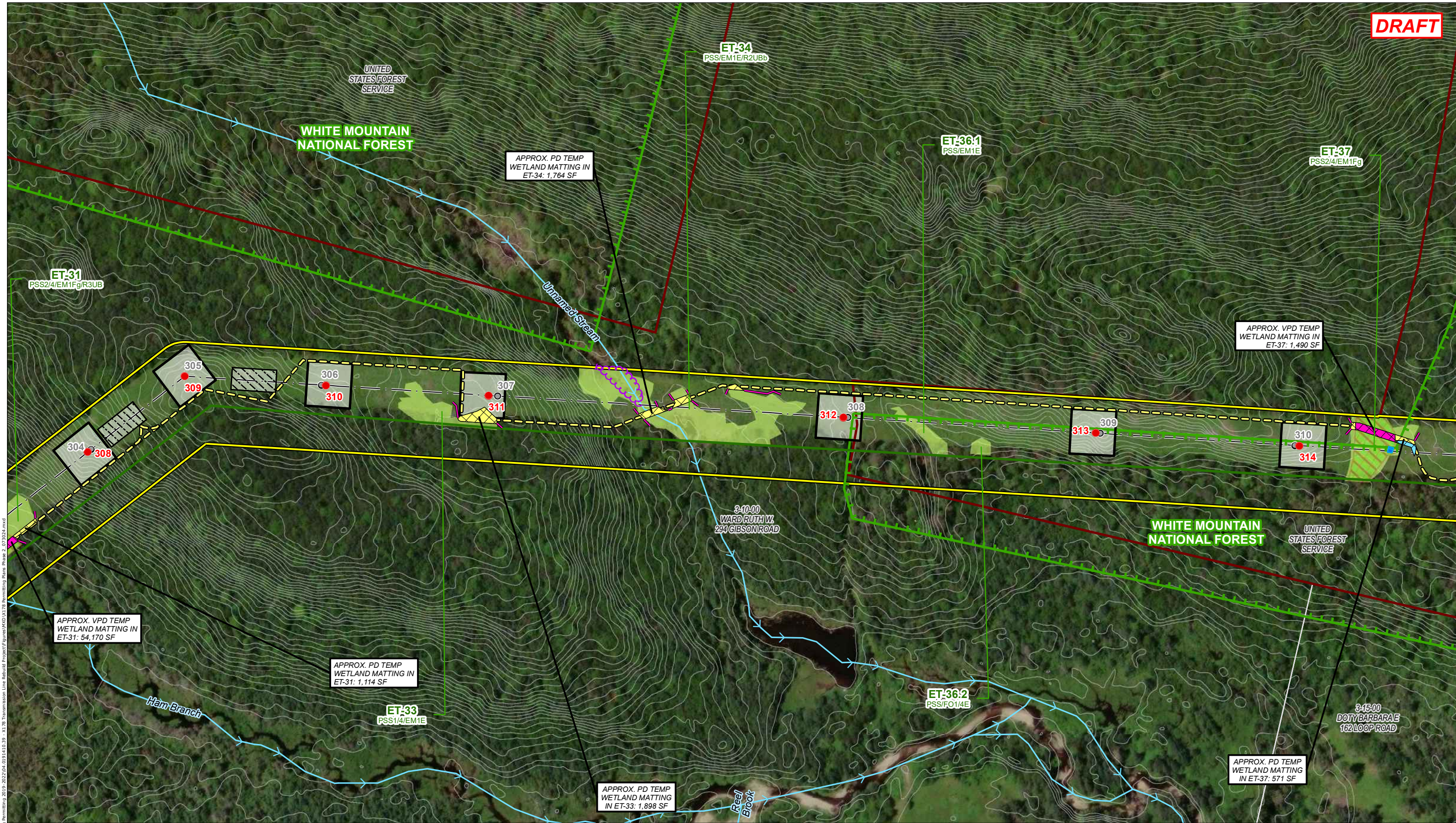








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1 inch = 200 feet

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NO.	DATE	REVISIONS

**EVERSOURCE**  
ENERGY

**X178-2 Transmission Line Rebuild and OPGW Project**  
**White Mountain National Forest**

Easton, NH

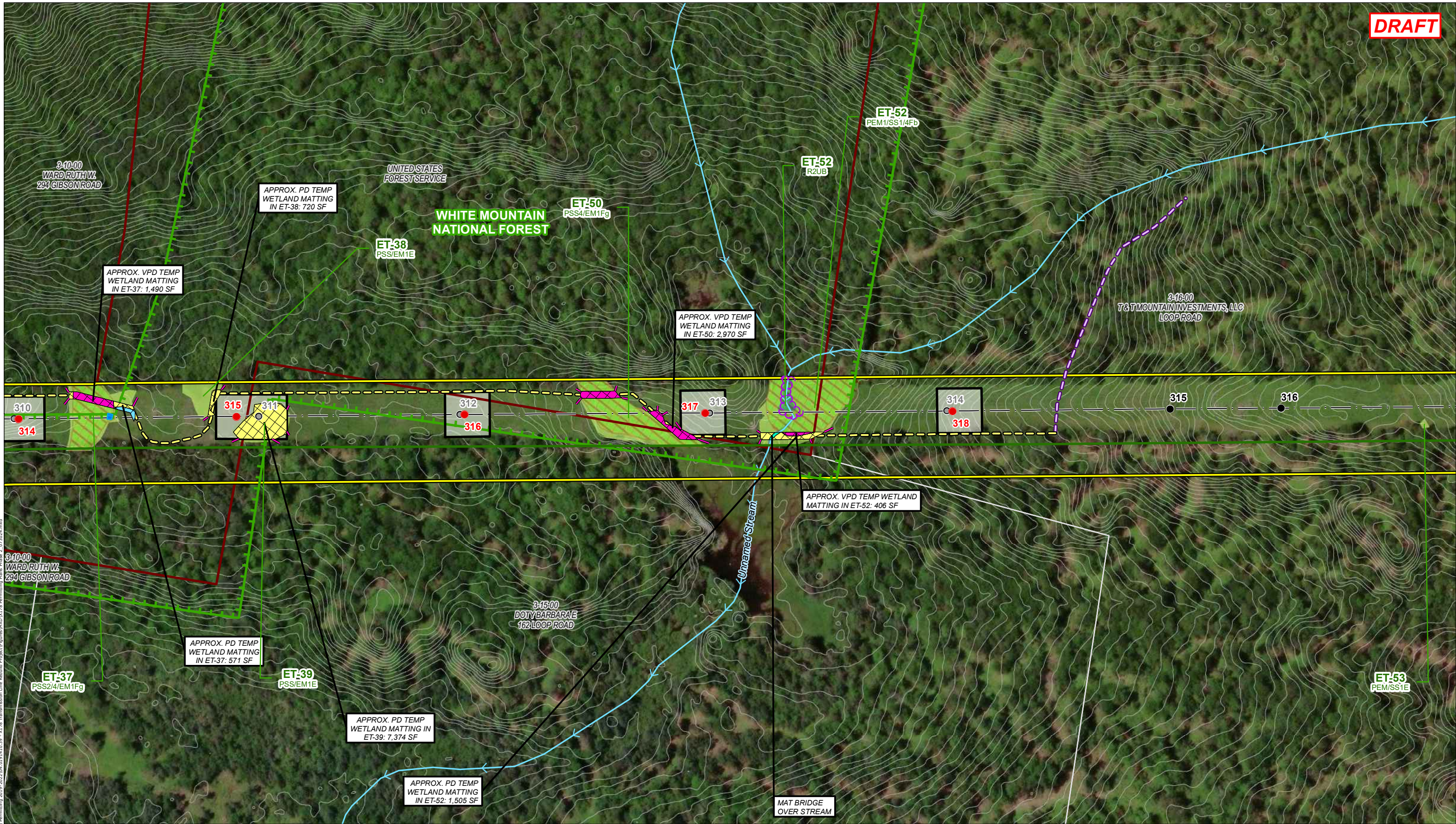
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Date: August 12, 2024

04.0191410.39

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INDEX MAP

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1 inch = 200 feet

0 50 100 200 Feet

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NO.

DATE

REVISIONS

EVERSOURCE  
ENERGY

X178-2 Transmission Line Rebuild and  
OPGW Project

White Mountain National Forest

Easton, NH

MAP SHEET

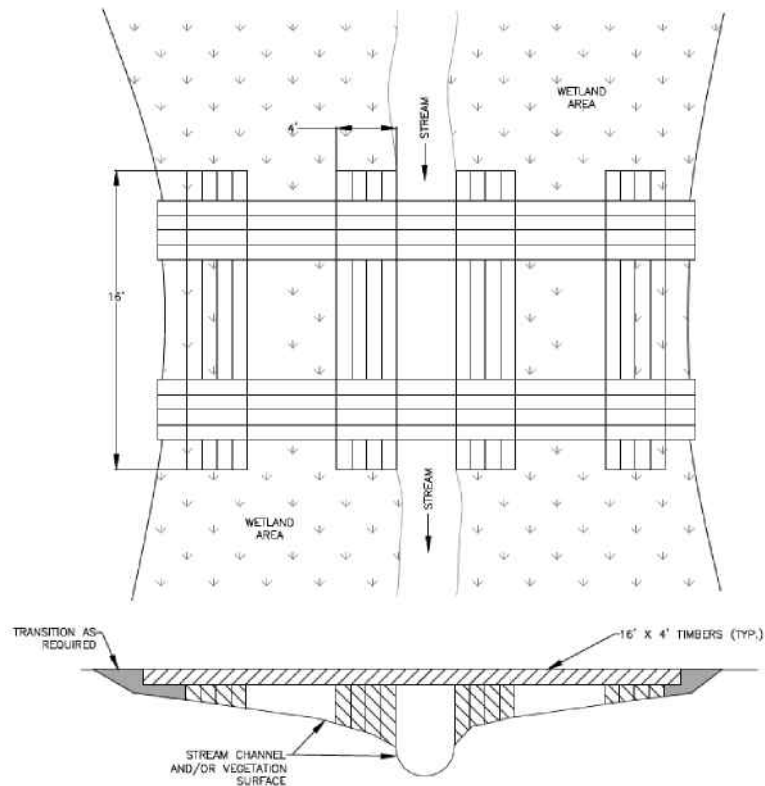
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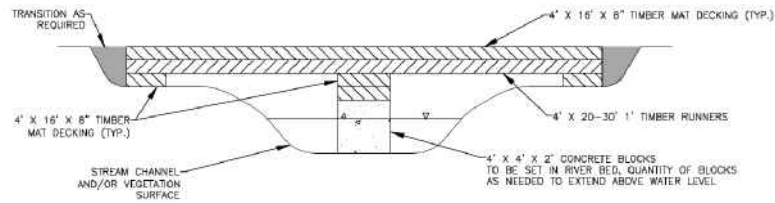
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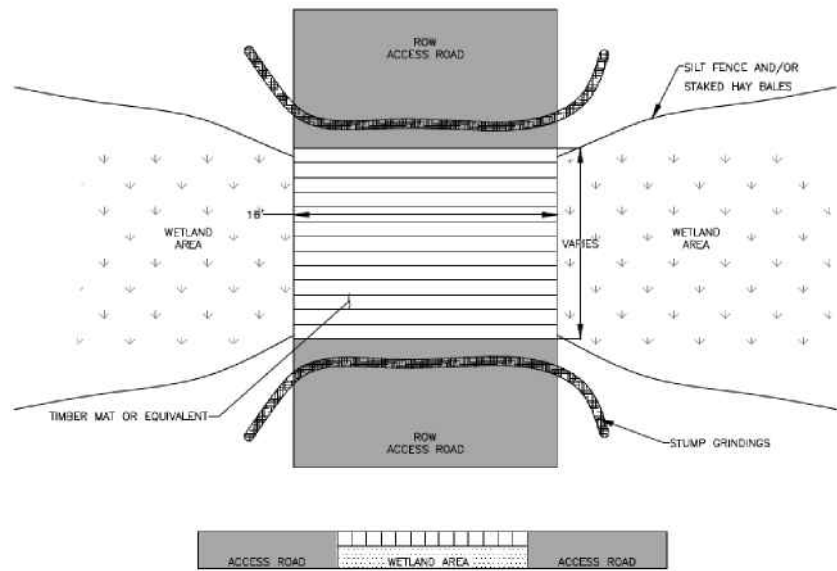


TYPICAL STREAM CROSSING  
NOT TO SCALE

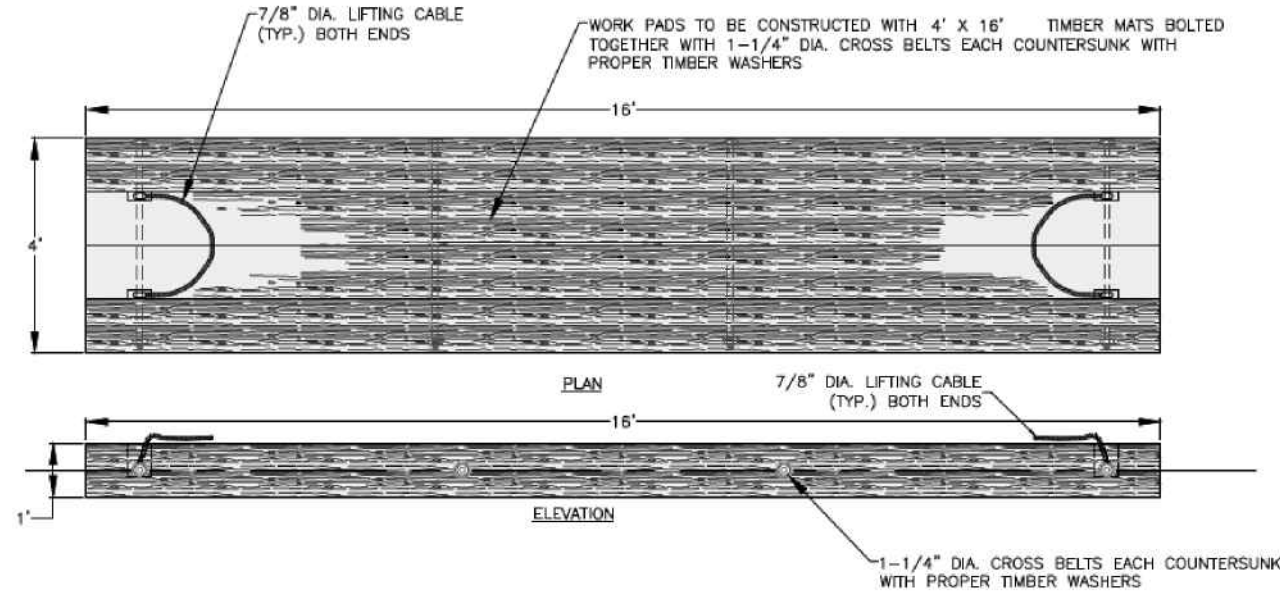


ALTERNATE STREAM CROSSING  
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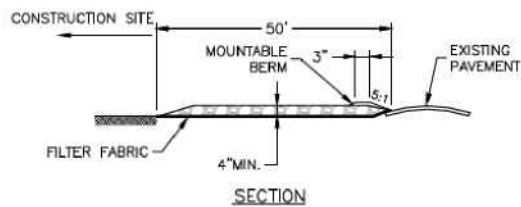
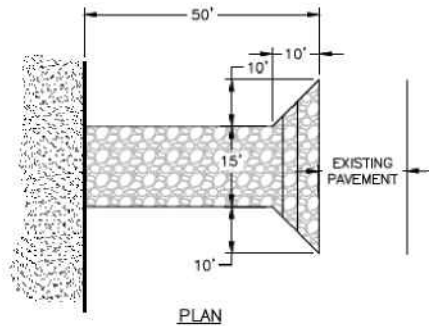
(WETLAND WS-63)



TYPICAL WETLAND CROSSING  
NOT TO SCALE



TYPICAL TIMBER MAT DETAIL  
NOT TO SCALE



TEMPORARY CONSTRUCTION ENTRANCE / EXIT  
NOT TO SCALE

NOTES

1. STONE SIZE - USE 2" STONE ( MINIMUM ) TO 6" STONE ( MAXIMUM ).
2. LENGTH - GREATER THAN OR EQUAL TO 50 FEET WITH THICKNESS OF 4".
3. WIDTH - FIFTEEN (15) FOOT TYP., BUT NOT LESS THAN FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
4. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS ENTRANCE. IF PIPING IS IMPRACTICAL, MOUNTABLE BERM SHALL BE PERMITTED.
5. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING AND ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
6. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED.
7. THE CLEAN STONE SHOULD BE INSTALLED OVER A GEOTEXTILE FABRIC. GEOTEXTILE FABRIC MAY BE OMITTED FOR PERMANENT CONSTRUCTION ENTRANCES-EXITS ON A CASE-BY-CASE BASIS WITH THE APPROVAL OF THE NATIONAL GRID ENVIRONMENTAL.
8. FOLLOWING CONSTRUCTION, THE CONSTRUCTION ENTRANCE / EXIT SHALL BE REMOVED AND THE AREA GRADED, SEEDED, AND MULCHED AS NEEDED. ENTRANCE / EXITS MAY REMAIN DEPENDING UPON FUTURE ACCESS NEEDS AND / OR PROJECT-SPECIFIC APPROVALS BUT REQUIRES APPROVALS FROM THE NATIONAL GRID ENVIRONMENTAL AND PROPERTY LEGAL.

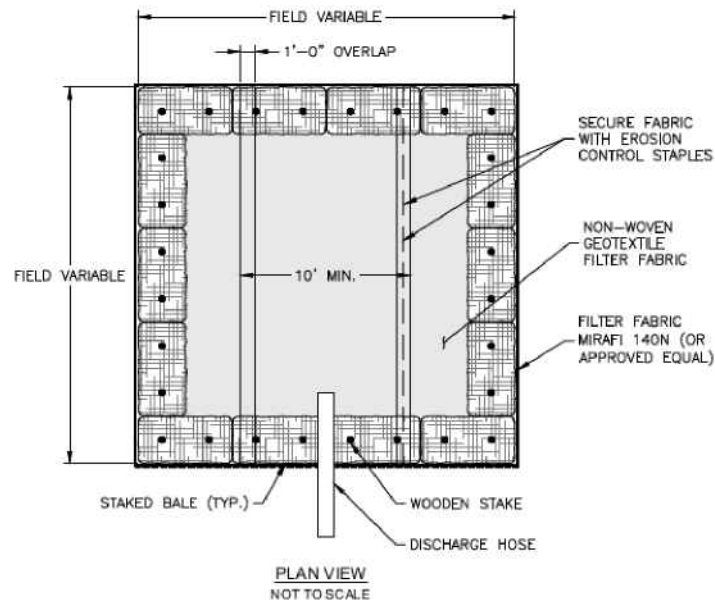
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X178-2 TRANSMISSION LINE REBUILD  
AND OPGW PROJECT  
SUGAR HILL, EASTON, LINCOLN, AND WOODSTOCK, NEW HAMPSHIRE

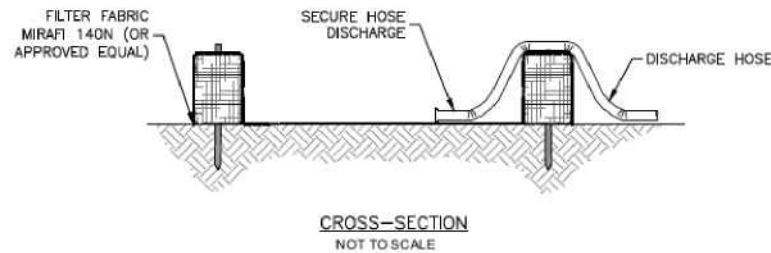
BMP DETAILS

PREPARED BY: <b>GZA</b> GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: <b>EVERSOURCE</b> ENERGY	
PROJ MGR: CEM	REVIEWED BY: TLT	CHECKED BY: DMZ	SHEET <b>S2</b>
DESIGNED BY: HP	DRAWN BY: LEW	SCALE:	
DATE: 03/21/2024	PROJECT NO. 04.0191410.39	REVISION NO.	

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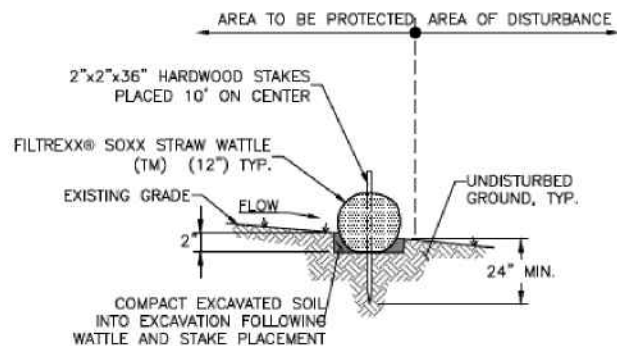


PLAN VIEW  
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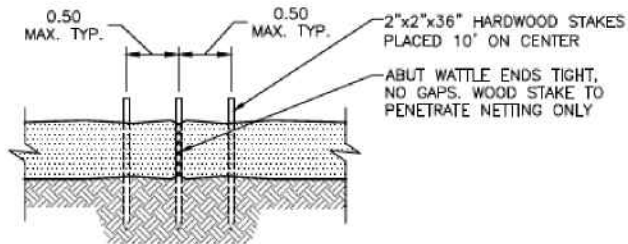


CROSS-SECTION  
NOT TO SCALE

### DEWATERING BASIN DETAIL



STRAW WATTLE DETAIL  
NOT TO SCALE



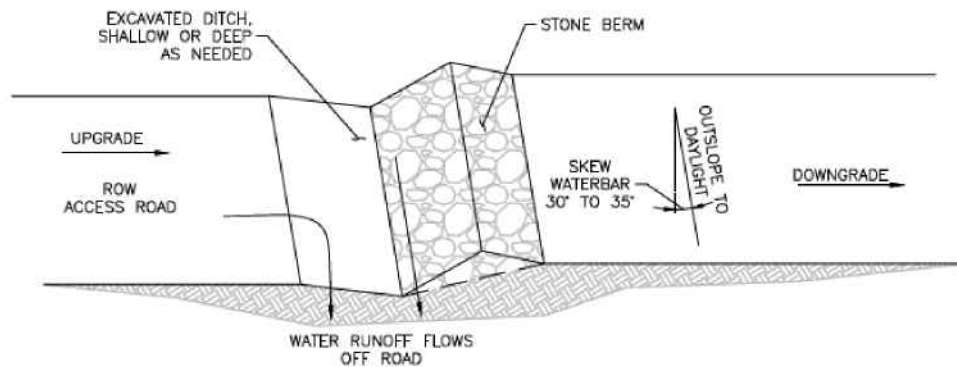
STRAW WATTLE OVERLAP  
NOT TO SCALE

#### NOTES:

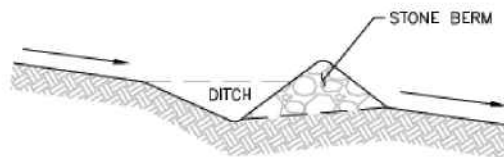
1. ALL MANUFACTURED EROSION AND SEDIMENT CONTROL PRODUCTS, WITH THE EXCEPTION OF TURF REINFORCEMENTS MATS, UTILIZED FOR, BUT NOT LIMITED TO, SLOPE PROTECTION, RUNOFF DIVERSION, SLOPE INTERRUPTION, PERIMETER CONTROL, INLET PROTECTION, CHECK DAMS, AND SEDIMENT TRAPS SHALL NOT CONTAIN PLASTIC, OR MULTIFILAMENT OR MONOFILAMENT POLYPROPYLENE NETTING OR MESH WITH AN OPENING SIZE OF GREATER THAN  $\frac{1}{8}$  INCHES.

#### NOTES:

1. DITCHES CAN BE DUG/CONSTRUCTED ALONG SIDE OF ACCESS ROAD, PER ENGINEERS DESIGN.
2. WATER BAR OUTLET SHOULD DRAIN AT A 3% OUT-SLOPE ONTO LEVEL SPREADER, UNDISTURBED LITTER OR VEGETATION.



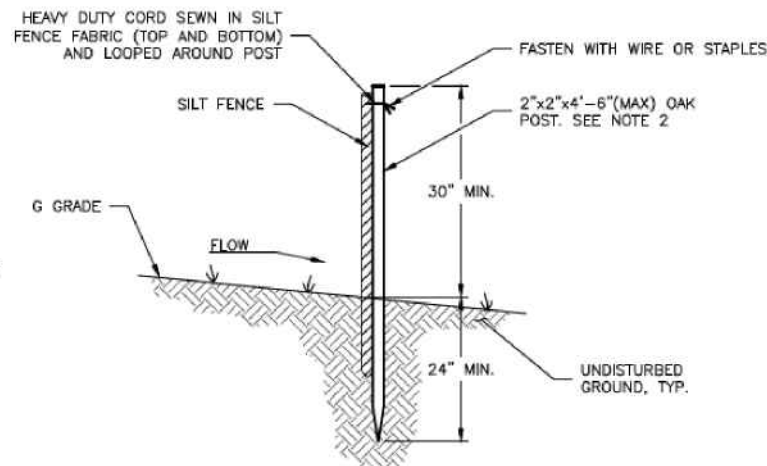
PLAN



SECTION

### TYPICAL WATER BAR DETAIL

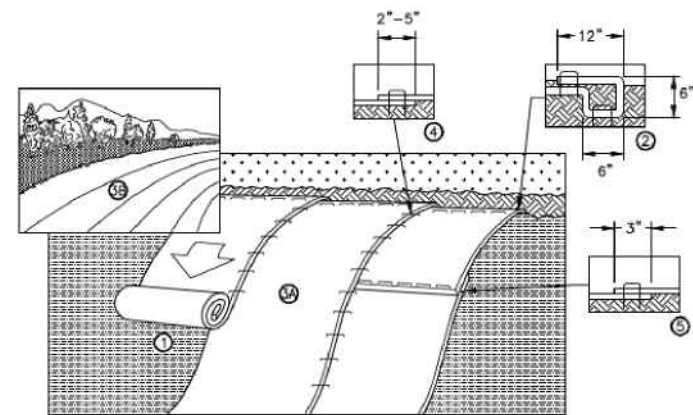
NOT TO SCALE



SILT FENCE DETAIL  
NOT TO SCALE

#### NOTES:

1. CONSTRUCTION SHALL BE IN ACCORDANCE WITH NEW HAMPSHIRE ENV-WQ 1506 STANDARDS.
2. SILT FENCE SHOULD BE INSTALLED "TIGHT" AGAINST SILT FENCE. THOROUGHLY COMPACT EXCAVATED SOILS BACK INTO TRENCH AFTER INSTALLATION OF EROSION CONTROL DEVICE. SILT FENCE FABRIC SHALL NOT BE SLIT. STANDARD 9.1.0 POST SHALL BE DRIVEN THROUGH SILT FENCE FABRIC. 2'x2'x4'-6" (MAX) O.C. IN WETLAND AREAS AND 4'-0" (MAX) O.C. IN WETLAND RAVINE, GULLY OR DROP OFF AREAS AS SHOWN ON PLANS.
3. 1"x1"x 4'-6" (MIN) POSTS PERMITTED FOR PREFABRICATED SILT FENCE.
4. SILT FENCE SHALL BE INSTALLED BEFORE ANY GRUBBING OR EARTH EXCAVATION TAKES PLACE.



SLOPE INSTALLATION DETAIL OF EROSION CONTROL BLANKET  
NOT TO SCALE

#### NOTES:

1. EROSION CONTROL BLANKET SHOULD BE INSTALLED VERTICALLY DOWNSLOPE.
2. STAKES/STAPLES SHOULD BE PLACED NO MORE THAN 3 FT. APART VERTICALLY AND 1 FT. APART HORIZONTALLY.
3. SLOPE SURFACES SHOULD BE FREE OF DEBRIS, INCLUDING STICKS, ROCKS AND OTHER OBSTRUCTIONS.
4. BLANKETS SHOULD BE ROLLED OUT LOOSELY AND STAKED/STAPLED TO MAINTAIN DIRECT SOIL CONTACT. DO NOT STRETCH THE BLANKETS.
5. DESIGNER/ENGINEER SHALL CHOOSE THE TYPE OF BLANKET OR MATTING DEPENDING ON SPECIFIC OBJECTIVES AND SITE CONDITIONS.

#### INSTALLATION NOTES:

1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's). INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP's IN A 6" (15cm) DEEP x 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF RECP's EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP's WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF RECP's BACK OVER SEED AND COMPACTED SOIL. SECURE RECP's OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE RECP's.
3. ROLL THE RECP's (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP's WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP's MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE(tm). WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL RECP's MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5cm - 12.5cm) OVERLAP DEPENDING ON RECP's TYPE.
5. CONSECUTIVE RECP's SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5cm) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE RECP's WIDTH.

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### X178-2 TRANSMISSION LINE REBUILD AND OPGW PROJECT

SUGAR HILL, EASTON, LINCOLN, AND WOODSTOCK, NEW HAMPSHIRE

### BMP DETAILS

PREPARED BY:



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

PREPARED FOR:



PROJ MGR: LEW

REVIEWED BY: TLT

CHECKED BY: DMZ

SHEET

DESIGNED BY: HP

DRAWN BY: LEW

SCALE:

S3

DATE: 11/17/2023

PROJECT NO. 04.0191410.39

REVISION NO.

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NEW HAMPSHIRE FISH AND GAME AOT PERMIT CONDITIONS IN ACCORDANCE WITH ENV-WQ 1504.18 – WILDLIFE PROTECTION NOTES:

NHB22-3461 (WOODSTOCK), NHB22-3462 (LINCOLN), NHB22-3463 (EASTON), NHB22-3464 (SUAGR HILL)

NEW HAMPSHIRE FISH AND GAME PERMIT CONDITIONS:

1. WOOD TURTLES (STATE SPECIES OF SPECIAL CONCERN) OCCUR WITHIN THE VICINITY OF THE PROJECT AREA. ALL OPERATORS AND PERSONNEL WORKING ON OR ENTERING THE SITE SHALL BE MADE AWARE OF THE POTENTIAL PRESENCE OF THESE SPECIES AND SHALL BE PROVIDED FLYERS THAT HELP TO IDENTIFY THESE SPECIES, ALONG WITH NHFG CONTACT INFORMATION. SEE PLAN SHEET 4-5.
2. RARE SPECIES INFORMATION (E.G. IDENTIFICATION, OBSERVATION AND REPORTING OF OBSERVATIONS, WHEN TO CONTACT NHFG IMMEDIATELY AND NHFG CONTACT INFORMATION) SHALL BE POSTED ON SITE AT ALL TIMES AND COMMUNICATED DURING MORNING TAILGATE MEETINGS PRIOR TO WORK COMMENCEMENT.
3. TURTLES AND SNAKES MAY BE ATTRACTED TO DISTURBED GROUND DURING NESTING SEASON. TURTLE NESTING SEASON OCCURS APPROXIMATELY MAY 15TH – JUNE 30TH. NESTING AREAS MAY INCLUDE WORK PADS AND ACCESS ROADS THAT ARE NOT HARD PACK GRAVEL AND OTHER SANDY/GRAVEL WORK AREAS. ALL TURTLE SPECIES NESTS ARE PROTECTED BY NH LAWS. BE AWARE OF THE POTENTIAL TO ENCOUNTER NESTING WILDLIFE IN THESE AREAS.
4. IF A NEST IS OBSERVED OR SUSPECTED, OPERATORS SHALL CONTACT MELISSA WINTERS (603-479-1129) OR JOSH MEGYESY (978-578-0802) AT NHFG IMMEDIATELY FOR FURTHER CONSULTATION. THE NEST OR SUSPECTED NEST SHALL BE MARKED (SURROUNDING ROPED OFF OR CONE BUFFER) AND AVOIDED; THIS SHALL BE COMMUNICATED TO ALL PERSONNEL ONSITE. SITE ACTIVITIES SHALL NOT OCCUR IN THE AREA SURROUNDING THE NEST OR SUSPECTED NEST UNTIL FURTHER GUIDANCE IS PROVIDED BY NHFG.
5. VERNAL POOLS AND POTENTIAL VERNAL POOLS (PVP) SHALL BE FLAGGED PRIOR TO WORK, AND IMPACTS SHALL BE AVOIDED WITH THE FOLLOWING EXCEPTIONS AS DESCRIBED IN THE TABLE EMBEDDED IN THE ATTACHED SCREENSHOT TITLED, "VERNAL POOL SUMMARY EVS X178":

1.WETLAND WS-75 AND L/ET-16 CONTAIN VERNAL POOLS WITHIN THE PROPOSED WORK PAD AREA FOR STRUCTURES 180 AND 269. THE WORK PADS MAY OVERLAP THESE VERNAL POOLS TO CONSTRUCT A SAFE WORK AREA. TEMPORARY TIMBER MATTING SHALL BE UTILIZED AND RESTORATION SHALL OCCUR FOLLOWING IMPACTS. IMPACTS TO THE VERNAL POOLS SHALL ONLY OCCUR DECEMBER 1 TO MARCH 1. WORK SHALL OCCUR UNDER FROZEN OR DRY CONDITIONS IF POSSIBLE. NHFG SHALL BE NOTIFIED PRIOR TO DISTURBANCE.
6. NO DISTURB VEGETATIVE BUFFERS OF 50' SHALL BE MAINTAINED AROUND VERNAL POOLS WHEREVER POSSIBLE. NHFG ACKNOWLEDGES THE FOLLOWING VERNAL POOL BUFFER IMPACTS AS DESCRIBED IN THE TABLE EMBEDDED IN THE ATTACHED SCREENSHOT TITLED, "VERNAL POOL SUMMARY EVS X178".

1.WETLANDS WS-64, WS-75,WS-117, L-73, L-66, L-42, L-41, L-40, L/ET-16, LW-1, ET-31, ET-37 CONTAIN VERNAL POOLS. TEMPORARY TIMBER MATTING WILL BE UTILIZED WITHIN 50-FT OF THESE VERNAL POOLS.
7. ALL MATTING WHICH WILL BE PLACED IN WATERBODIES DEEMED SUITABLE FOR HIBERNATING RARE TURTLES WILL BE PLACED PRIOR TO THE START OF THE INACTIVE SEASON (OCTOBER 16-MARCH 31) SO AS TO PREVENT ACCIDENTAL PLACEMENT ATOP HIBERNATING TURTLES. AREAS IDENTIFIED AS SUITABLE HIBERNATION HABITAT SHALL BE IDENTIFIED ON PLAN SHEETS AND PROVIDED TO NHFG AT LEAST TWO WEEKS PRIOR TO BEGINNING WORK.
8. IMMEDIATELY PRIOR TO THE PLACEMENT OF MATTING IN WETLANDS DURING THE ACTIVE SEASON (APRIL 1-OCTOBER 15), THE AREAS SHALL BE CLEARED BY A TRAINED INDIVIDUAL. A TRAINED INDIVIDUAL SHALL BE DEFINED AS ANY CONTRACTOR WHO HAS GONE THROUGH PROJECT-SPECIES PROTECTION EDUCATION CONDUCTED BY THE QUALIFIED BIOLOGIST ON RARE WILDLIFE SPECIES AT THE SITE. CONTACT NHFG IF TURTLES IN MATTING AREAS ARE OBSERVED OR SUSPECTED.
9. FOR ALL WORK PADS, STAGING AREAS, MATTING, AND ACCESS ROADS, SEARCHES AND SWEEPS SHALL BE CONDUCTED BY TRAINED INDIVIDUALS IMMEDIATELY BEFORE THE START OF WORK AND MOVEMENT OF EQUIPMENT IN ORDER TO MINIMIZE THE CHANCE OF ANIMALS ENTERING AN AREA BETWEEN THE SWEEP AND WORK. A TRAINED INDIVIDUAL SHALL BE DEFINED AS ANY CONTRACTOR WHO HAS GONE THROUGH PROJECT-SPECIES PROTECTION EDUCATION CONDUCTED BY THE QUALIFIED BIOLOGIST ON RARE WILDLIFE SPECIES AT THE SITE.
10. ALL WORK ACTIVITIES SHALL BE RESTRICTED TO THE DEFINED ROADS, CONSTRUCTION AREAS, AND STAGING AREAS, WITH NO EQUIPMENT OR MATERIALS STAGED OR STORED OUTSIDE OF THE DEFINED AREAS AS SHOWN ON PLAN SHEETS OR EQUIVALENT DOCUMENT.

1. MINOR FIELD CHANGES TO ACCESS ROADS AND WORK PADS INCLUDING: SHIFTING ACCESS FROM ONE SIDE OF THE RIGHT OF WAY TO THE OTHER, SHIFTING OF WORK PADS AND STAGING AREAS FORWARD OR BACKWARDS, BUT NOT INCREASING THE OVERALL SQUARE FOOTAGE OF THE WORK PADS OR STAGING AREAS, MAY BE CONSIDERED BASED ON LOCATION. NHFG SHALL BE NOTIFIED OF ANY PROPOSED CHANGES.
11. WORK, PULL PADS, AND ACCESS SHALL BE MINIMIZED TO THE GREATEST EXTENT POSSIBLE.
12. WORK PADS SHALL BE REDUCED POST-CONSTRUCTION TO 30' X 60' AND RESTORED WITH A NATIVE VEGETATIVE SEED MIX.
13. ALL MANUFACTURED EROSION AND SEDIMENT CONTROL PRODUCTS, WITH THE EXCEPTION OF TURF REINFORCEMENT MATS, UTILIZED FOR, BUT NOT LIMITED TO, SLOPE PROTECTION, RUNOFF DIVERSION, SLOPE INTERRUPTION, PERIMETER CONTROL, INLET PROTECTION, CHECK DAMS, AND SEDIMENT TRAPS SHALL NOT CONTAIN PLASTIC, OR MULTIFILAMENT OR MONOFILAMENT POLYPROPYLENE NETTING OR MESH WITH AN OPENING SIZE OF GREATER THAN 1/8 INCHES;
14. ALL OBSERVATIONS OF THREATENED OR ENDANGERED SPECIES ON THE PROJECT SITE SHALL BE REPORTED IMMEDIATELY TO THE NHFG NONGAME AND ENDANGERED WILDLIFE ENVIRONMENTAL REVIEW PROGRAM BY PHONE AT 603-271-2461 AND BY EMAIL AT NHFGREVIEW@WILDLIFE.NH.GOV, WITH THE EMAIL SUBJECT LINE CONTAINING THE NHB DATACHECK TOOL RESULTS LETTER ASSIGNED NUMBER, THE PROJECT NAME, AND THE TERM WILDLIFE SPECIES OBSERVATION;
15. PHOTOGRAPHS OF THE OBSERVED SPECIES AND NEARBY ELEMENTS OF HABITAT OR AREAS OF LAND DISTURBANCE SHALL BE PROVIDED TO NHFG IN DIGITAL FORMAT AT THE ABOVE EMAIL ADDRESS FOR VERIFICATION, AS FEASIBLE;
16. IN THE EVENT A THREATENED OR ENDANGERED SPECIES IS OBSERVED ON THE PROJECT SITE DURING THE TERM OF THE PERMIT, THE SPECIES SHALL NOT BE DISTURBED, HANDLED, OR HARMED IN ANY WAY PRIOR TO CONSULTATION WITH NHFG AND IMPLEMENTATION OF CORRECTIVE ACTIONS RECOMMENDED BY NHFG.

1. SITE OPERATORS OR TRAINED INDIVIDUALS SHALL BE ALLOWED TO RELOCATE WILDLIFE ENCOUNTERED IF DISCOVERED WITHIN THE ACTIVE WORK ZONE AND IF IN DIRECT HARM FROM PROJECT ACTIVITIES. WILDLIFE SHALL BE RELOCATED IN CLOSE PROXIMITY TO THE CAPTURE LOCATION BUT OUTSIDE OF THE WORK ZONE AND IN THE DIRECTION THE INDIVIDUAL WAS HEADING. NHFG SHALL BE CONTACTED IMMEDIATELY IF THIS ACTION OCCURS.
17. THE NHFG, INCLUDING ITS EMPLOYEES AND AUTHORIZED AGENTS, SHALL HAVE ACCESS TO THE PROPERTY DURING THE TERM OF THE PERMIT.

ADDITIONAL RECOMMENDATIONS:

1. SMOOTH GREEN SNAKES (STATE SPECIES OF SPECIAL CONCERN) OCCUR WITHIN THE VICINITY OF THE PROJECT SITE. ALL OPERATORS AND PERSONNEL WORKING ON OR ENTERING THE SITE SHOULD BE MADE AWARE OF THE POTENTIAL PRESENCE OF THESE SPECIES AND SHOULD BE PROVIDED FLYERS THAT HELP TO IDENTIFY THESE SPECIES, ALONG WITH NHFG CONTACT INFORMATION. RARE SPECIES INFORMATION (E.G. IDENTIFICATION, OBSERVATION AND REPORTING OF OBSERVATIONS, WHEN TO CONTACT NHFG IMMEDIATELY AND NHFG CONTACT INFORMATION) SHOULD BE POSTED ON SITE AT ALL TIMES AND COMMUNICATED DURING MORNING TAILGATE MEETINGS PRIOR TO WORK COMMENCEMENT. SEE PLAN SHEET 4-5.
2. NEW HAMPSHIRE FISH AND GAME RECOMMENDS THAT THE ABOVE CONSERVATION MEASURES ARE APPLIED TO ALL WORK THROUGHOUT THE LINE, INCLUDING IN THE TOWNS OF WOODSTOCK, LINCOLN, AND SUGAR HILL WHERE THERE WERE NO KNOWN OBSERVATIONS OF RARE SPECIES.


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X178-2 TRANSMISSION LINE REBUILD  
AND OPGW PROJECT


SUGAR HILL, EASTON, LINCOLN, AND WOODSTOCK,  
NEW HAMPSHIRE

NOTES

PREPARED BY:

GZA GeoEnvironmental, Inc.  
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EVERSOURCE  
ENERGY

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SCALE:

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PROJECT NO. 04.0191410.39

REVISION NO.

SHEET

S4

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WOOD TURTLE (GLYPTEMYS INSCULPTA)

STATE SPECIES OF SPECIAL CONCERN



WOOD TURTLE IDENTIFICATION

1. NECK AND FORELIMBS ARE ORANGE.  
2. CHARACTERIZED BY ITS HIGHLY SCULPTED SHELL WITH EACH LARGE SCUTE TAKING ON AN IRREGULAR PYRAMIDAL SHAPE.  
3. ADULTS CAN BE 5-8 INCHES LONG.

SMOOTH GREEN SNAKE (LIOCHLOROPHIS VERNALIS)

SPECIES OF SPECIAL CONCERN



SMOOTH GREEN SNAKE IDENTIFICATION



1. A THIN, SLENDER BRIGHT-GREEN SNAKE MEASURING 10-20 INCHES  
2. THE UNDERSIDE IS WHILE OR PALE YELLOW

\*ALL PHOTOS AND IDENTIFICATION INFORMATION COURTESY OF NEW HAMPSHIRE FISH AND GAME DEPARTMENT.

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X178-2 TRANSMISSION LINE REBUILD  
AND OPGW PROJECT  
SUGAR HILL, EASTON, LINCOLN, AND WOODSTOCK,  
NEW HAMPSHIRE

WILDLIFE NOTES

PREPARED BY:  <b>GZA</b> GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: 	
PROJ MGR: LEW	REVIEWED BY: TLT	CHECKED BY: DMZ	SHEET <b>S5</b>
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	
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