

Just to confirm Agency of course of pipeline to north side of Batchelder, now owned by B. E. Batchelder, on the north side of

DRAFT

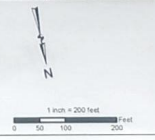


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 Drawing: [unreadable]
 Scale: 1:200 Feet
 Author: [unreadable]
 Check: [unreadable]
 Appr: [unreadable]

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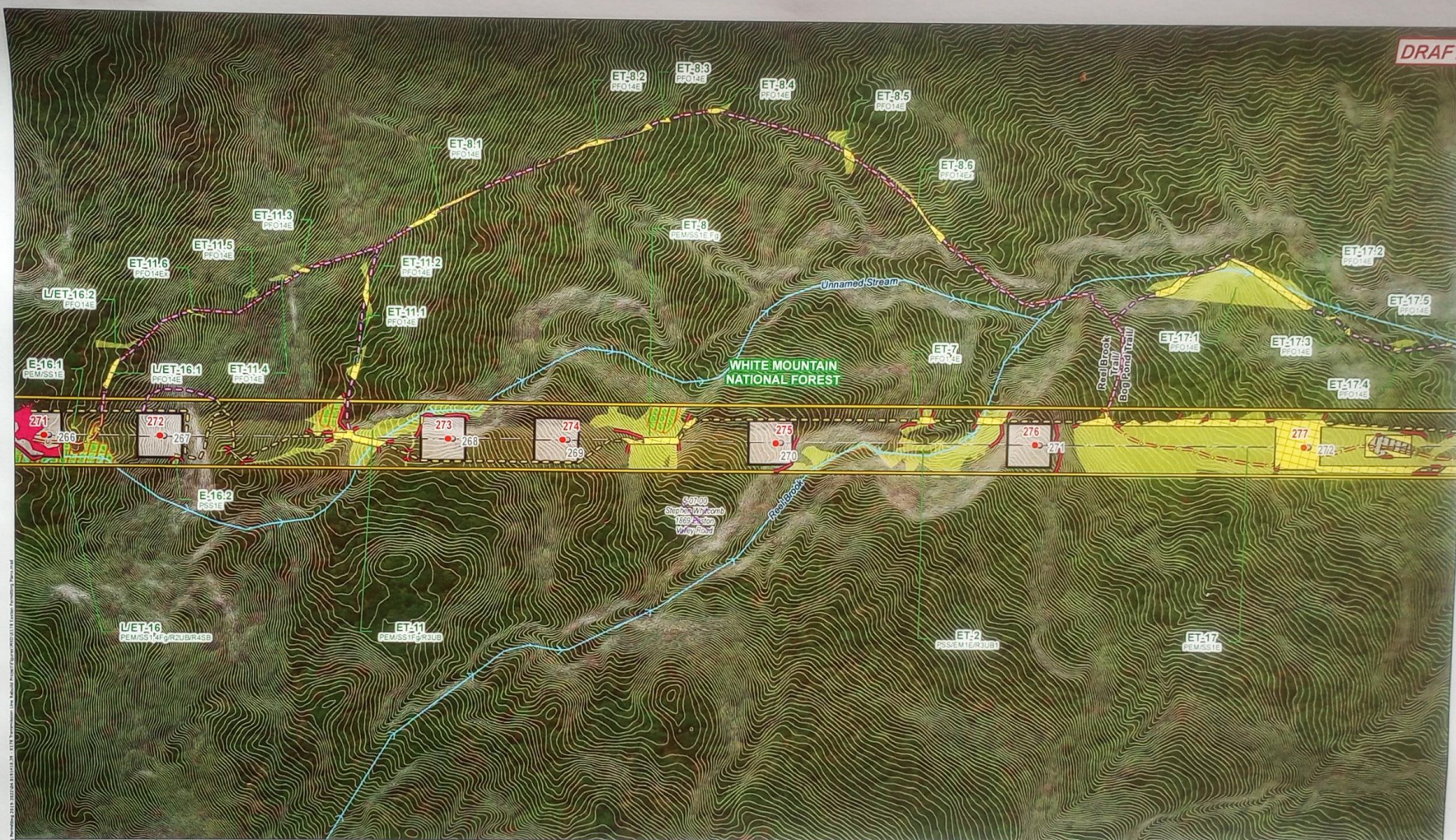
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ENERGY

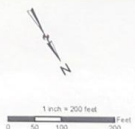
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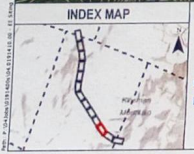
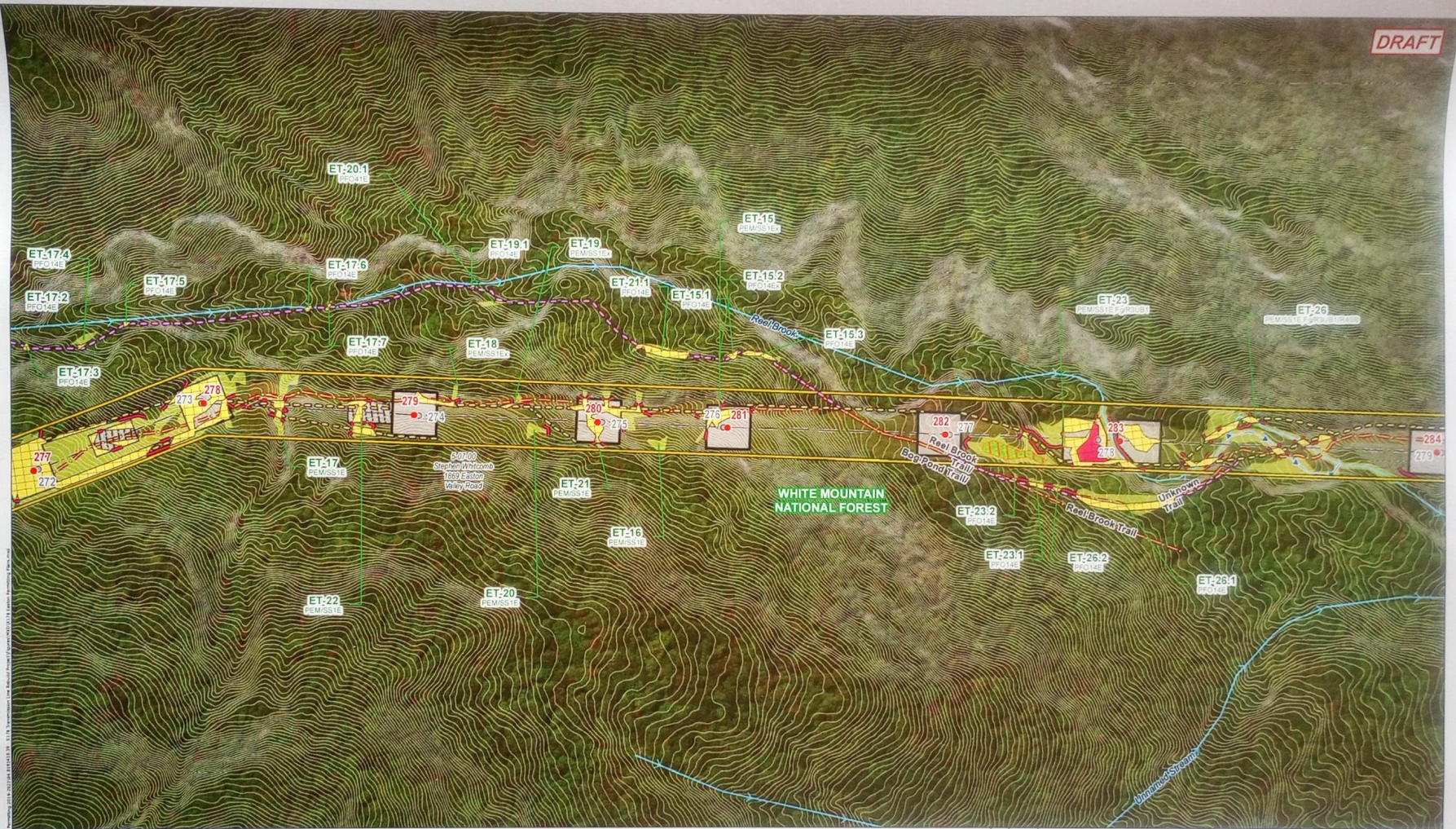
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EVERSOURCE
EASTON

X178 Transmission Line Structure Rebuild Project

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50%
 Final
 Design
 EIR/EA
 Draft
 DRAFT

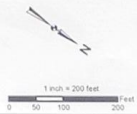
507.00
 State of New Hampshire
 Dept. of Transportation
 White Mountain
 National Forest



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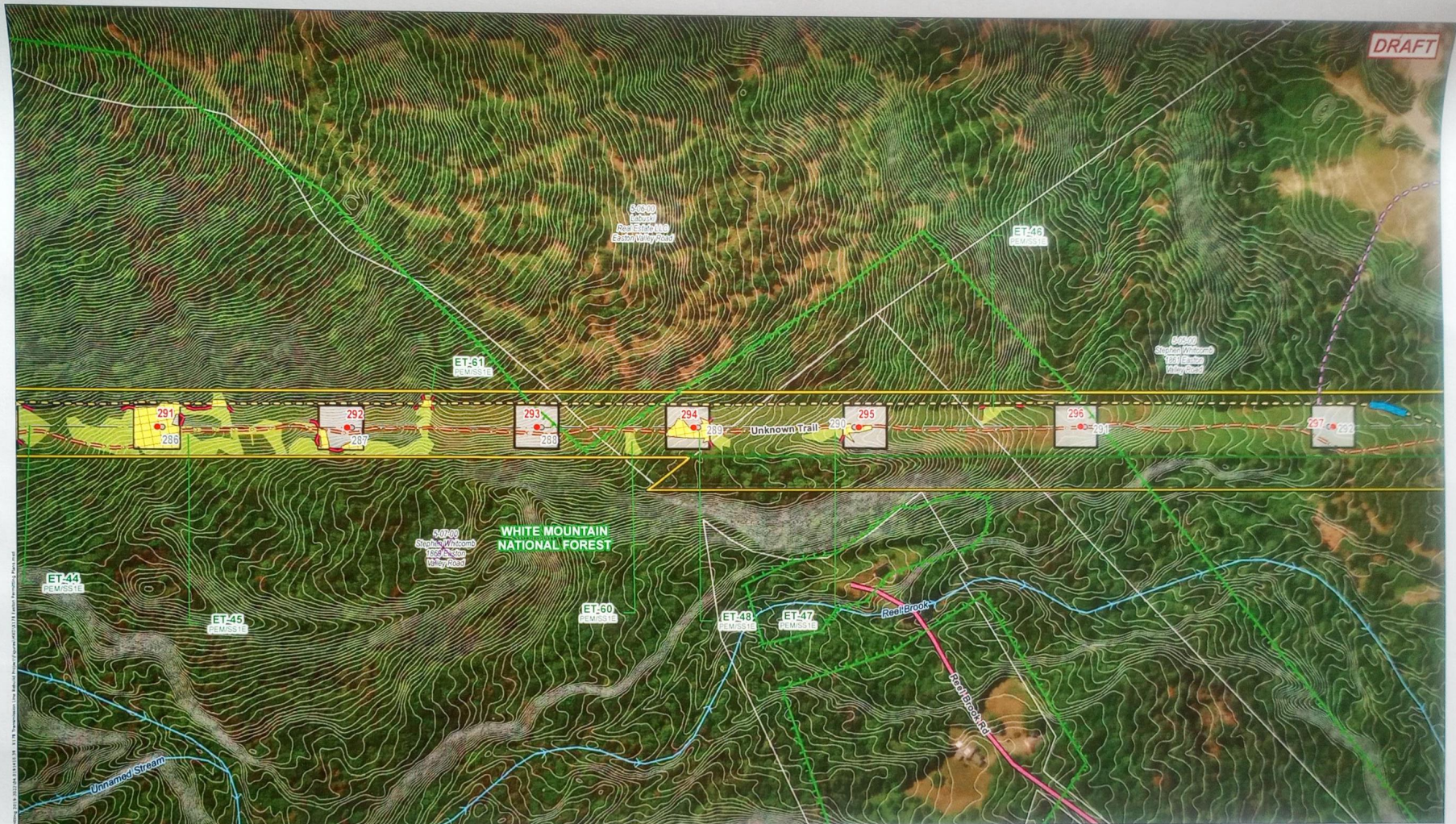
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EVSOURCE
 INCORPORATED

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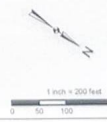
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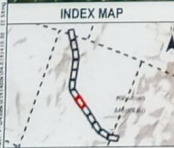
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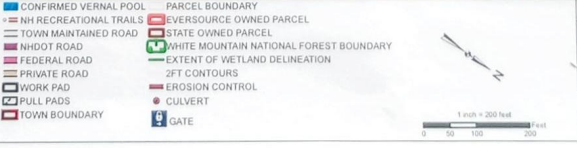
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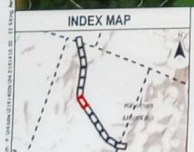
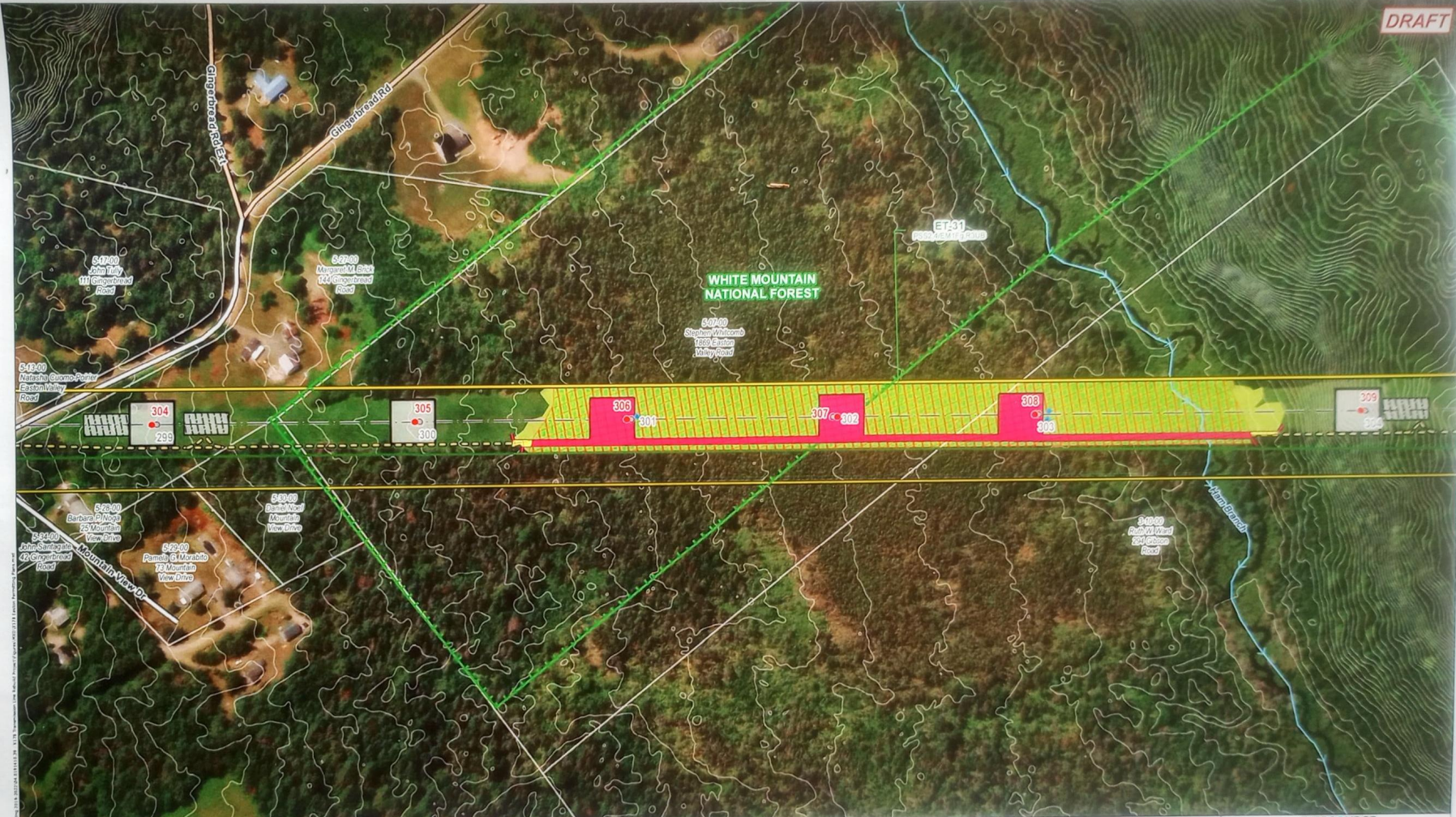
WHITE MOUNTAIN NATIONAL FOREST



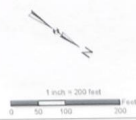
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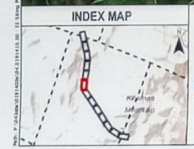
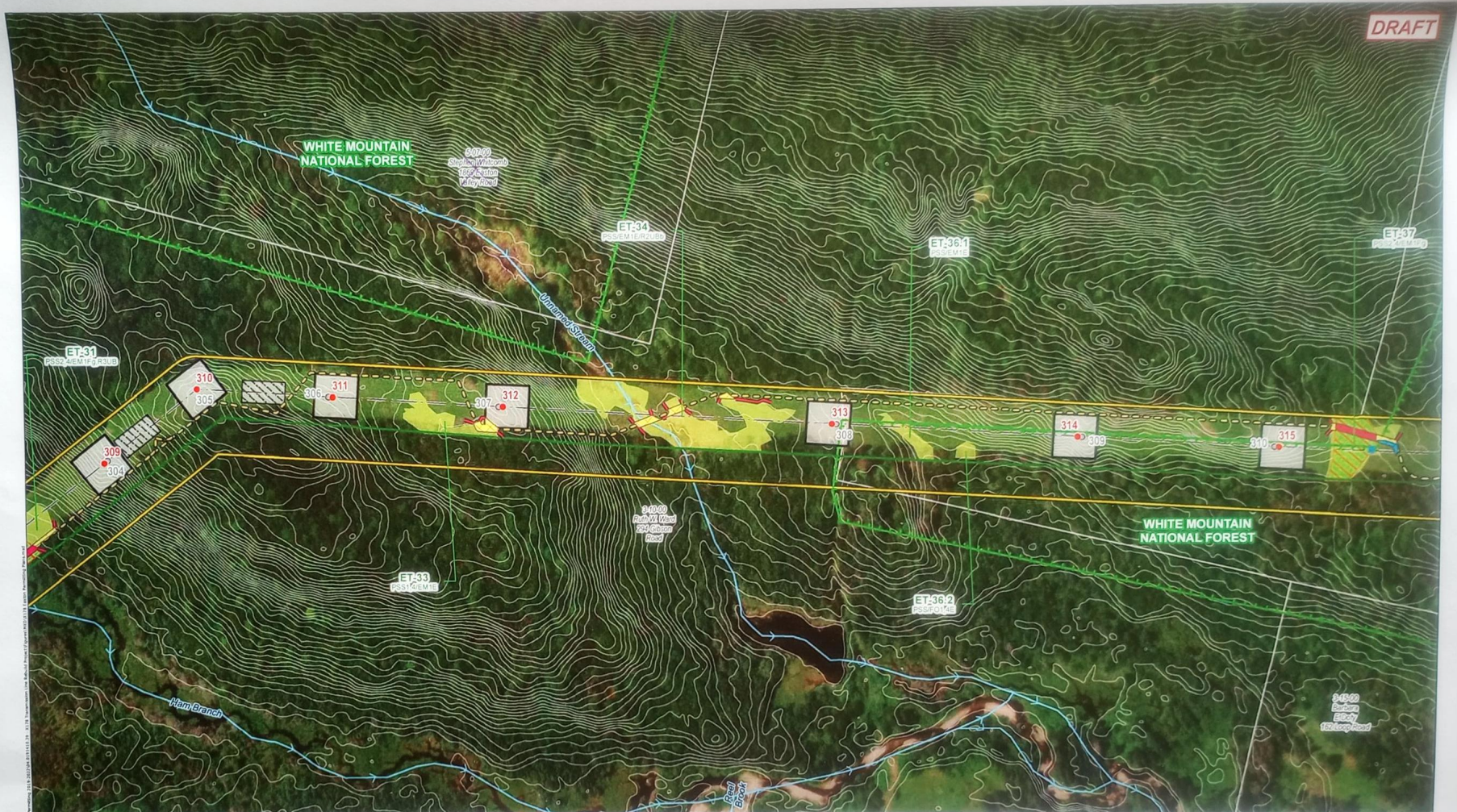
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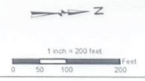
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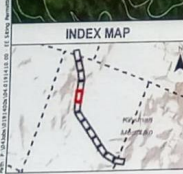
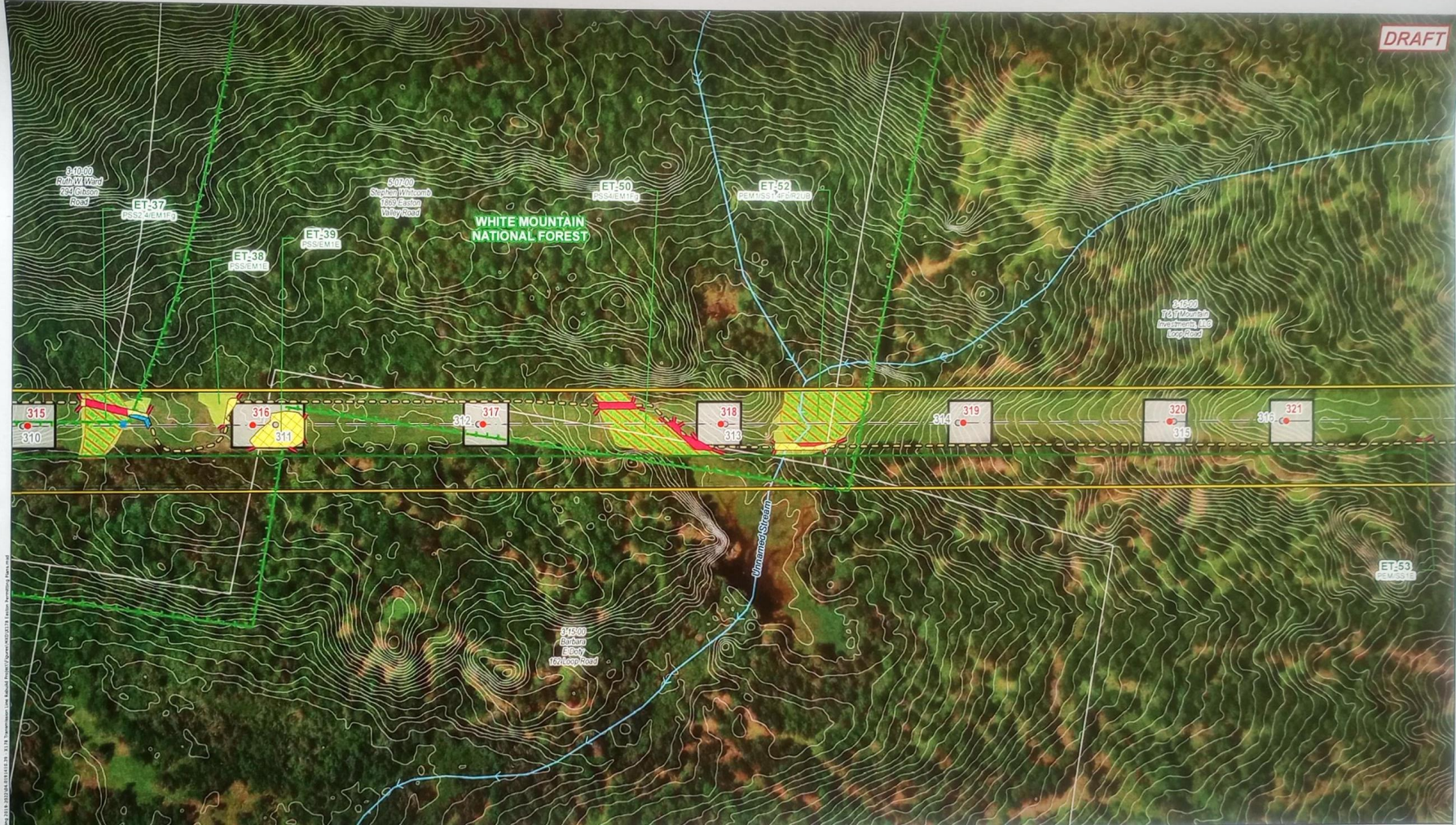
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EVERSOURCE
ENERGY

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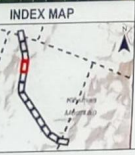
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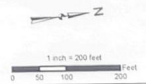
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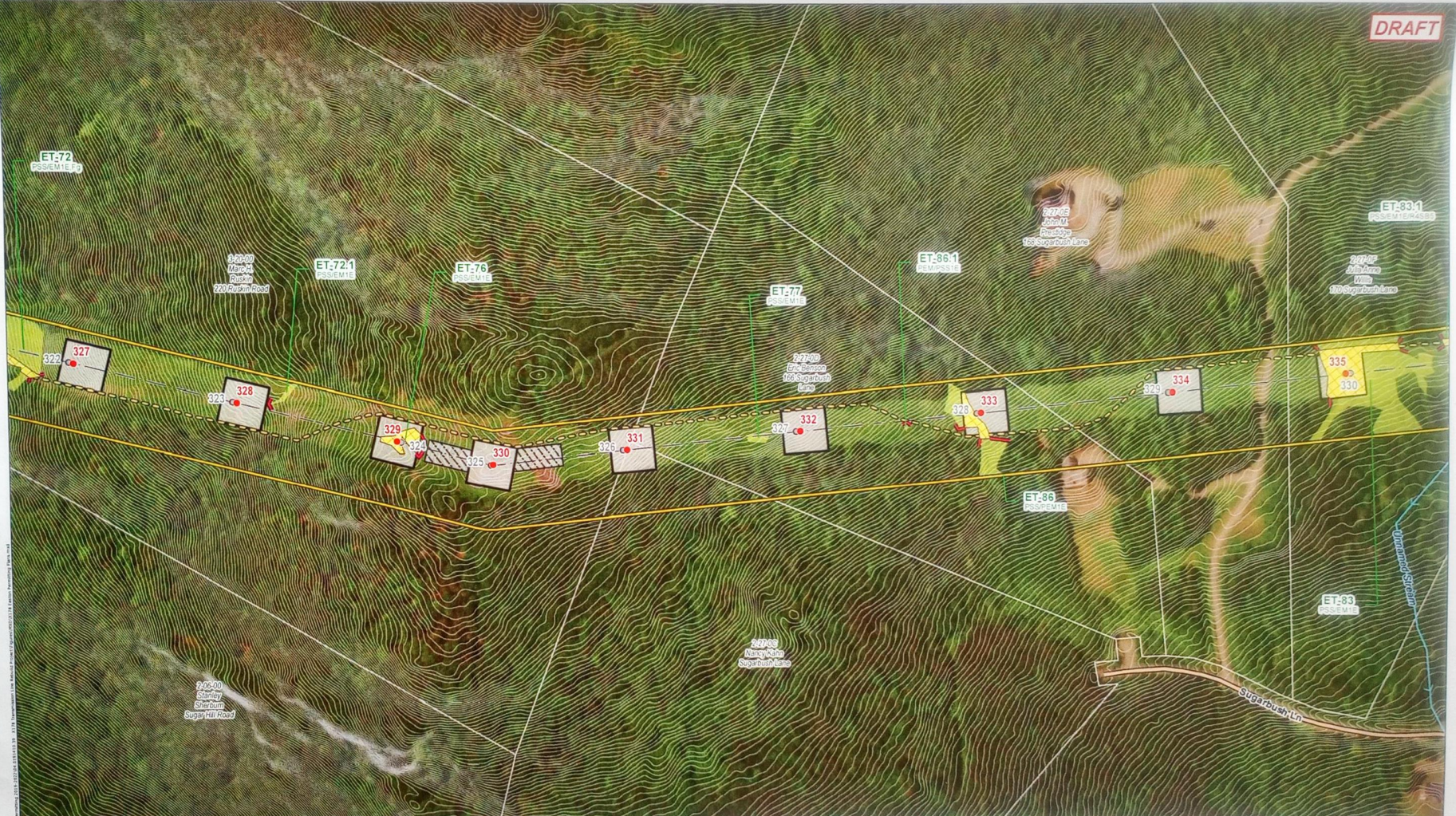
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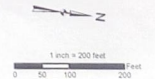


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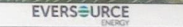


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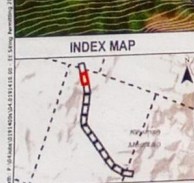
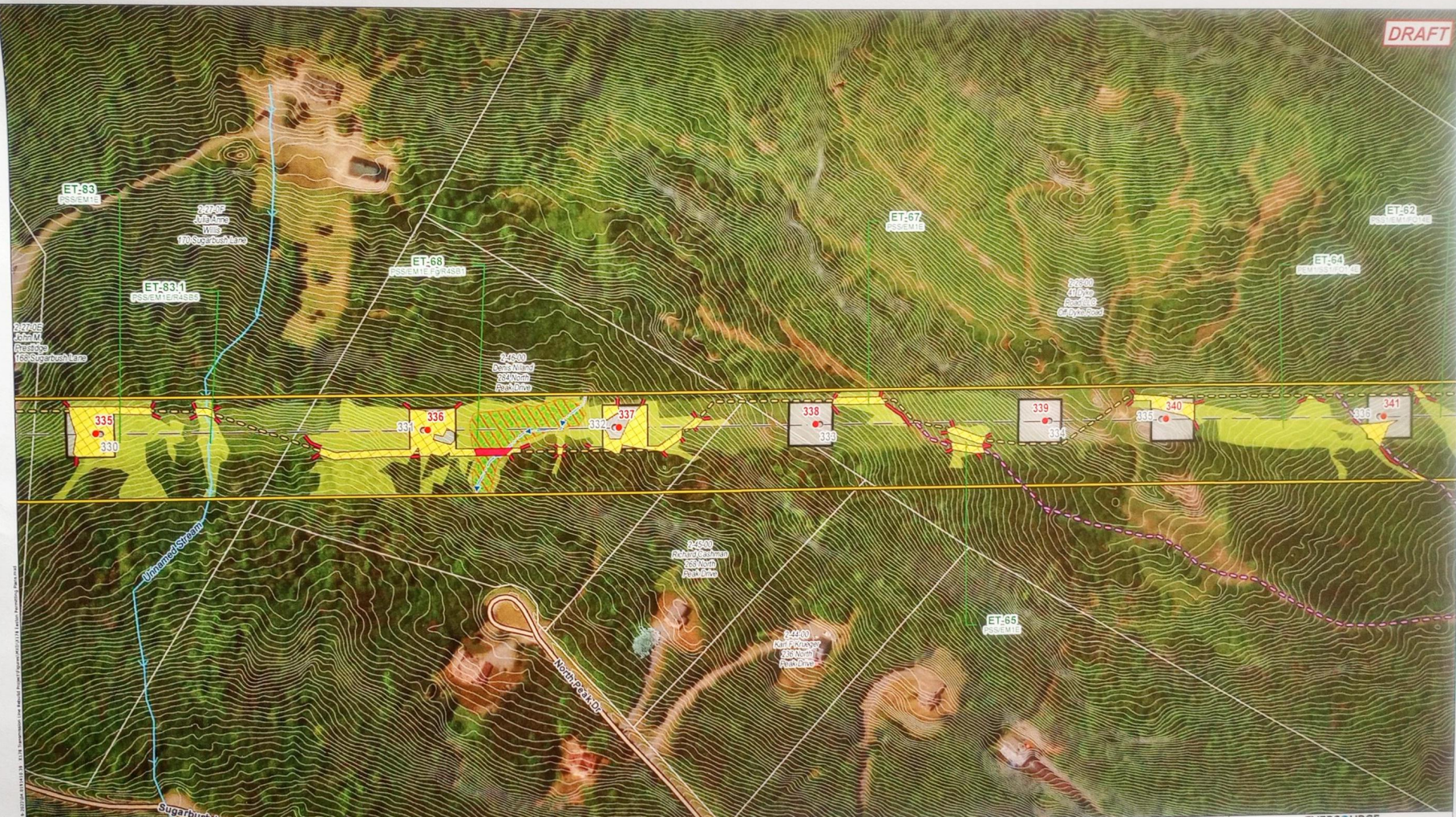
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1 inch = 200 feet

0 50 100 150 200 Feet

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- GATE



This mapping product has been created to comply with submitter 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 Transmission Line Structure Rebuild Project

Easton/Sugar Hill, NH		MAP SHEET
Date: December 21, 2023		13 OF 13
NO.	DATE	REVISIONS
		04 0191410 39

CONSTRUCTION SEQUENCE:

1. WETLAND BOUNDARIES TO BE CLEARLY MARKED PRIOR TO THE START OF CONSTRUCTION.
2. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAIL PROVIDED, AS NECESSARY, AND CONSISTENT WITH THE NHDES MARCH 2019 BMP MANUAL FOR UTILITY MAINTENANCE.
3. WETLAND IMPACTS ASSOCIATED WITH WETLAND CROSSINGS ARE REQUIRED FOR ACCESS BETWEEN STRUCTURES WITHIN THE RIGHT OF WAY. LOOK FOR FIELD FLAGGING AND REFER TO PROJECT PLANS FOR THESE LOCATIONS.
4. ADEQUATE PRECAUTION SHALL BE EXERCISED TO AVOID SPILLAGE OF FUEL OILS, CHEMICALS, OR SIMILAR SUBSTANCES; NO FUELS, LUBRICANTS, CHEMICALS OR SIMILAR SUBSTANCES SHALL BE STORED BENEATH TREES OR IN THE VICINITY OF ANY WETLANDS, OR OTHER BODY OF WATER, OR IN THE VICINITY OF NATURAL OR MAN-MADE CHANNELS LEADING THERETO. NO POWER EQUIPMENT SHALL BE STORED, MAINTAINED, OR FUELED IN ANY AREA ADJACENT TO A WETLAND, RIVER, STREAM OR OTHER BODY OF WATER.
5. REMOVE COMPLETELY ALL CONTAMINATION FROM ANY SPILLAGE OF CHEMICALS OR PETROLEUM PRODUCT AND COMPLETE REHABILITATION OF THE AFFECTED AREA.
6. ACCESS ROUTES HAVE BEEN SELECTED TO PREVENT DEGRADATION OF THE RIGHT-OF-WAY AND MINIMIZE ENVIRONMENTAL IMPACT. OPERATIONS SHALL BE CONFINED TO THE SPECIFIED ACCESS ROUTES WITHIN THE PROPOSED WETLAND IMPACT AREA. ACCESS ROUTES SHALL NOT EXCEED A 18 FOOT-WIDTH.
7. IMPACT TO VEGETATION WITHIN WETLANDS WILL BE LIMITED TO THE EXTENT NECESSARY TO PLACE THE TIMBER MATS WHERE REQUIRED.
8. LOW GROWING VARIETIES OF VEGETATION ADJACENT TO WETLANDS SHALL BE PRESERVED TO THE EXTENT POSSIBLE. STUMPS SHALL NOT BE REMOVED, AND THERE SHALL BE NO EXCAVATIONS, FILLS OR GRADING DONE ADJACENT TO WETLANDS, UNLESS MINOR EXCAVATIONS OR GRADING IS NEEDED FOR ACCESS OR WORK PADS AND THEN ONLY WITHIN LIMITS SHOWN ON PROJECT PLANS.
9. TIMBER MATS AND PERIMETER CONTROLS WILL BE USED ALONG ACCESS ROUTES AND WORK PADS WITHIN WETLAND AREAS. THESE MATS ARE CONSTRUCTED OF HEAVY TIMBERS OR COMPOSITE MATERIAL, BOLTED TOGETHER, AND ARE PLACED ONLY TO ENROUTE AND TO SUPPORT HEAVY EQUIPMENT. ALL TIMBERING SHALL BE PROPERLY MAINTAINED AND REPAIRED SO AS NOT TO CAUSE ANY RUTS, CHANNELS OR DEPRESSIONS, OR OTHERWISE CAUSE ANY UNDUE DISTURBANCE TO WETLANDS.
10. IN UPLANDS, ADDITIONAL BMP'S MAY INCLUDE THE PLACEMENT OF GEOTEXTILE FABRIC, 3'-4" STONE, AND GRAVEL TO PROVIDE A SUB-DRAINAGE ROAD BED. MATTING SHALL BE INSTALLED IN A MANNER TO BRIDGE STREAM CHANNELS. TEMPORARY CULVERTS MAY BE REQUIRED IN AREAS OF HIGH FLOW TO MAINTAIN HYDROLOGIC CONNECTIVITY. ALL MATERIAL WILL BE REMOVED FROM JURISDICTIONAL AREAS AFTER CONSTRUCTION COMPLETION.
11. NO MATERIAL SHALL BE PLACED IN ANY LOCATION OR IN ANY MANNER SO AS TO IMPAIR SURFACE WATER FLOW INTO THROUGH OR OUT OF ANY WETLAND AREA. NO INSTALLATION SHALL CREATE AN IMPOUNDMENT THAT WILL IMPEDE THE FLOW OF WATER OR CAUSE FLOODING.
12. BIOLOGICAL MONITORING OF PROJECT SPECIES MAY REQUIRE THAT WORK AREAS ARE CLEARED PRIOR TO WORK OR PLACEMENT OF MATERIALS.
13. NO MATERIAL SHALL BE TAKEN FROM THE WETLANDS AREA EXCEPT THAT WHICH MUST NECESSARILY BE REMOVED FOR THE STRUCTURE OR FOUNDATION PLACEMENT OR STABILIZATION. ALL EXCESS MATERIAL TAKEN FROM THE WETLAND WILL BE REMOVED FROM THE SITE.
14. DISCHARGE OF DEWATERING WATER SHOULD NOT BE DIRECTED TOWARDS SURFACE WATERS IDENTIFIED BY NHDES AS TIER 2, TIER 2.5, OR TIER 3 WITHOUT PRIOR AUTHORIZATION FROM EVERSOURCE. SUCH ACTIVITIES TRIGGER TURBIDITY MONITORING AND REPORTING REQUIREMENTS AS OUTLINED IN SECTION 3.3 OF THE 2022 EPA CONSTRUCTION GENERAL PERMIT, TIER 2, TIER 2.5, AND TIER 3 SURFACE WATERS ARE CONSIDERED ALL SURFACE WATERS INCLUDING LAKES, PONDS, MARSHES AND TIDAL WATERS AS DEFINED BY ENV-WT 104.33. DEWATERING WATER SHOULD BE DIRECTED AWAY FROM SURFACE WATERS, OR BE DISCHARGED TO A VAC TRUCK, POLY TANK, OR UPLAND BASIN, AS APPROVED BY EVERSOURCE. OTHERWISE, TURBIDITY MONITORING DURING DEWATERING ACTIVITIES WILL BE REQUIRED.
15. ANY PROPOSED SUPPORT FILLS SHALL BE CLEAN GRAVEL AND STONE, FREE OF WASTE METAL PRODUCTS, ORGANIC MATERIALS AND SIMILAR DEBRIS AND SHALL NOT EXCEED THE AMOUNT PERMITTED. THIS ALLOWABLE FILL IS THE ONLY FILL THAT MAY REMAIN IN THE WETLAND AFTER CONSTRUCTION. ALL CUT AND FILLS SLOPES SHALL BE SEEDED/OILMED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
16. INSTALL NEW POLES IN THE LOCATIONS DESIGNATED ON THE PERMITTING PLANS.
17. WIRE INSTALLATION WILL BE PERFORMED IN A MANNER SO AS TO AVOID, OR LIMIT TO THE MAXIMUM EXTENT POSSIBLE, TRAVELING WETLANDS WITH HEAVY EQUIPMENT. IN SOME CASES, A HELICOPTER MAY BE USED DURING THE INSTALLATION TO MINIMIZE IMPACTS.
18. REMOVAL OF THE OLD POLE WILL OCCUR ONCE THE WIRE HAS BEEN INSTALLED ON THE NEW STRUCTURE. THE OLD STRUCTURES WILL BE REMOVED FROM THE SITE. POLES WILL BE CUT AT THE GROUND SURFACE. FOOTINGS WILL BE ABANDONED IN PLACE TO MINIMIZE IMPACTS.
19. ALL TIMBER MATS, MATERIAL, AND DEBRIS WILL BE REMOVED FROM THE WORK AREA UPON THE COMPLETION OF CONSTRUCTION.
20. UNLESS APPROVED AS PERMANENT IMPACT, TIMBER MATS MUST ONLY BE INSTALLED FOR ONE GROWING SEASON. TIMBER MATS INSTALLED DURING THE ACTIVE GROWING SEASON (MAY 1 TO OCTOBER 1) MUST BE REMOVED PRIOR TO THE START OF THE FOLLOWING GROWING SEASON (BY APRIL 30 LATEST).
21. UPLAND DISTURBED AREAS SHALL BE RESTORED AND STABILIZED UPON COMPLETION OF CONSTRUCTION. WORK PAD RESTORATION SHOULD INCLUDE REDUCING THE WORK PAD TO A 30 BY 60 FOOT AREA, AND REDUCING SLOPES TO A MAXIMUM OF 20%. STOCKPILED MATERIAL SHOULD BE SPREAD TO REDUCE ANY UNNECESSARY SLOPES. GRAVEL WORK PADS AND SLOPES SHOULD BE SCARIFIED TO A MINIMUM OF 3" BEFORE SPREADING TOPSOIL/OILMED. DISTURBED UPLANDS SHALL BE SEEDED WITH A GRASS MIX.
22. TEMPORARY WETLAND IMPACTS WILL BE RE-GRADED TO ORIGINAL CONTOURS TO THE GREATEST EXTENT PRACTICABLE FOLLOWING CONSTRUCTION. EROSION CONTROL RESTORATION SEED MIX WILL BE APPLIED AS NECESSARY IF THE SURROUNDING NATIVE SEED BANK DOES NOT RESULT IN ADEQUATE VEGETATIVE COVER.
23. MULCH USED FOR STABILIZATION SHALL CONSIST OF SEEDLESS STRAW.
24. SEDIMENT AND EROSION CONTROL MEASURES WILL BE EVALUATED AND REMOVED IF NECESSARY UPON THE COMPLETION OF CONSTRUCTION.
25. UNLESS OTHERWISE REQUESTED BY UNDERLYING PROPERTY OWNERS AND APPROVED BY EVERSOURCE, COMMERCIAL LOAM WILL NOT BE USED AS PART OF RESTORATION. ONLY IN-SITU TOPSOIL WILL BE USED TO RESTORE DISTURBED AREAS.
26. RESTORATION REQUIREMENTS MAY INCLUDE A PERCENT COVER GOAL AND EXTEND BEYOND THE FINAL CONSTRUCTION ACTIVITIES.

WINTER CONSTRUCTION NOTES:

1. PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED. STABILIZATION METHODS SHALL INCLUDE SEEDING AND MULCH AND INSTALLATION OF EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SWING MILD EVENTS.
2. DITCHES OR SPALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE TEMPORARILY STABILIZED WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.
3. AFTER NOVEMBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL (NHDOT 304.3).
4. PROJECTS IN WHICH THERE IS AN ACTIVE NOI AND CONSTRUCTION IS COMPLETED BETWEEN OCTOBER 15 AND APRIL 31 MUST BE MONITORED FOR A MINIMUM OF 70% VEGETATIVE GROWTH IN ORDER TO SUBMIT A NOT THROUGH THE EPA.

GENERAL NOTES:

OWNER: EVERSOURCE ENERGY
13 LEGENDS DRIVE
DOCKETT, NH 03108



1. BASE PLAN PROVIDED BY EVERSOURCE ENERGY. EVERSOURCE ENERGY PROVIDED THE UTILITY DESIGN.
2. JURISDICTIONAL WETLANDS WERE DELINEATED BY OTHERS AND CONFIRMED BY GZA GEOENVIRONMENTAL, INC. IN 2023. IN ACCORDANCE WITH THE 1987 U.S. ARMY CORPS OF ENGINEERS' WETLANDS DELINEATION MANUAL, TECHNICAL REPORT Y-87-1, AND REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL, NORTH CENTRAL AND NORTH-EAST REGION, JANUARY 2012, WETLANDS WILL BE REVIEWED BY GZA GEOENVIRONMENTAL, INC. PRIOR TO START OF WORK.
3. GZA EVALUATED WETLANDS AS POTENTIAL VERNAL POOLS IN 2023 IN ACCORDANCE WITH "IDENTIFICATION AND DOCUMENTATION OF VERNAL POOLS IN NEW HAMPSHIRE," 2018, NEW HAMPSHIRE FISH AND GAME DEPARTMENT, NONGAME AND ANDANGERED WILDLIFE PROGRAM.
4. SITE PLAN IS FOR PERMITTING PURPOSES ONLY AND DOES NOT REPRESENT A PROPERTY BOUNDARY SURVEY.
5. THE PROJECT WILL BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430.53 AND CHAPTER AGR 3800, AS WELL AS SECTION 2.10 OF THE NHDES BEST MANAGEMENT PRACTICES MANUAL FOR UTILITY MAINTENANCE IN AND ADJACENT TO WETLANDS AND WATERBODIES IN NEW HAMPSHIRE RELATIVE TO INVASIVE SPECIES.
6. IN ACCORDANCE WITH ENV-WD 1505.02, THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCEED 5 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
 - A MINIMUM 85 PERCENT VEGETATED GROWTH HAS BEEN ESTABLISHED
 - A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL HAS BEEN INSTALLED
 - OR, EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

EROSION CONTROL/RESTORATION NOTES:

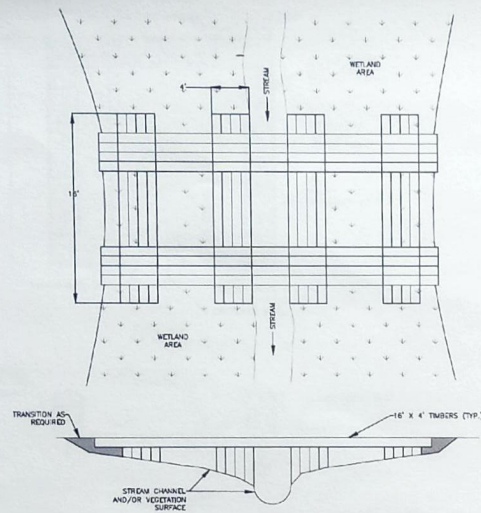
1. INSTALLATION OF EROSION CONTROL GRINDINGS AND/OR SILT FENCES SHALL BE COMPLETE PRIOR TO THE START OF WORK IN ANY GIVEN AREA. EROSION CONTROLS SHALL BE USED DURING CONSTRUCTION AND REMOVED WHEN ALL SLOPES HAVE A HEALTHY STAND OF VEGETATION COVER. EROSION CONTROL MEASURES SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER 25' OR GREATER RAINFALL, EVEN.
2. AS REQUIRED, CONSTRUCT TEMPORARY BERMS, SILTATION FENCES, SEDIMENT TRAPS, ETC. TO PREVENT EROSION & SEDIMENTATION OF WETLANDS.
3. THE WORK AREA SHALL BE GRADED AND OTHERWISE SHAPED IN SUCH A MANNER AS TO MINIMIZE SOIL EROSION, SILTATION OF DRAINAGE CHANNELS, DAMAGE TO EXISTING VEGETATION, AND DAMAGE TO PROPERTY OUTSIDE LIMITS OF THE WORK AREA. EROSION CONTROL GRINDINGS WILL BE NECESSARY TO ACCOMPLISH THIS END.
4. ANY STRIPPED TOPSOIL SHALL BE STOCKPILED, WITHOUT COMPACTION, AND STABILIZED WITH BMP'S.
5. PERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS. WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM MAY 25 TO SEPTEMBER 15. NO DISTURBED AREA SHALL BE LEFT EXPOSED DURING WINTER MONTHS, PLANT SUITABLE GRASS MIX PRIOR TO OCTOBER 15TH.
6. EROSION CONTROL MATTING, IF REQUIRED, WILL CONSIST OF LUTE MATTING, MATTING WITH WELDED PLASTIC OR BIODEGRADABLE PLASTIC NETTING OR THREAD IS NOT PERMITTED.
7. PER ENV-WT 307.03(c)(10), WATER QUALITY CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL DISTURBED SURFACES ARE STABILIZED TO A CONDITION IN WHICH SOILS ON THE SITE WILL NOT EXPERIENCE ACCELERATED OR UNNATURAL EROSION, SUCH AS ACHIEVING 85% OF GREATER VEGETATIVE COVER USING AN EROSION CONTROL SEED MIX.

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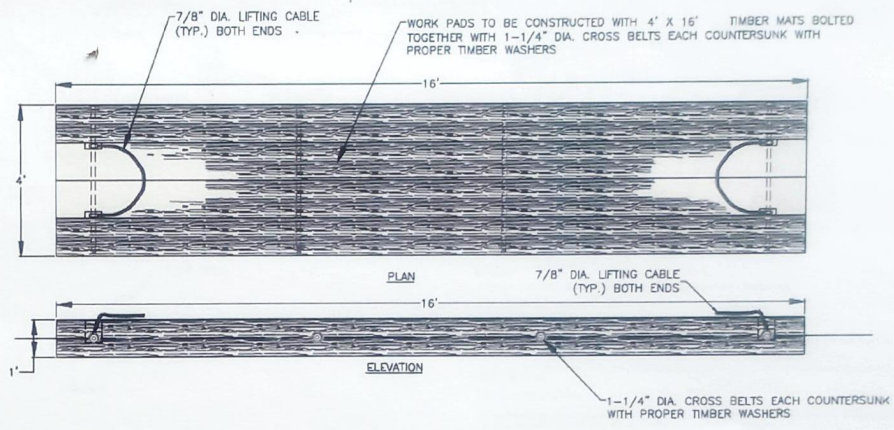
X178-2 TRANSMISSION LINE REBUILD AND OPGW PROJECT
SUGAR HILL, EASTON, LINCOLN, AND WOODSTOCK,
NEW HAMPSHIRE

NOTES					
PREPARED BY:  GZA Geo-Environmental, Inc. Engineers and Scientists www.gza.com			PREPARED FOR: 		
PROJ. MGR.	LEW	REVIEWED BY:	FLT	CHECKED BY:	DMZ
DESIGNED BY:	MJD	DRAWN BY:	MJD	SCALE:	
DATE:	12/20/2023	PROJECT NO.:	04.0191410.39	REVISION NO.:	
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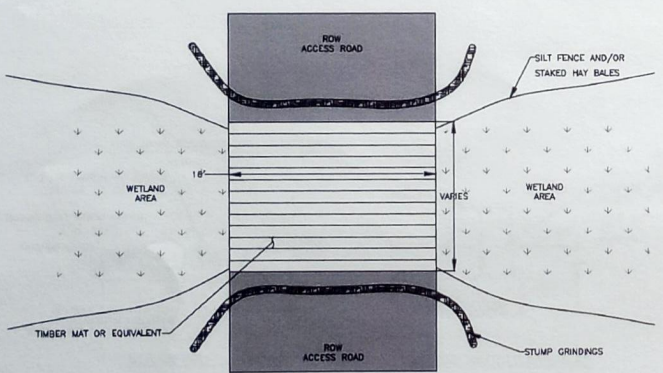
© 2023 - GZA GeoEnvironmental, Inc. P:\04\06\01\18\04\04\01\18\1410-95-1\1781 Transmission Line Rebuild Project\figure\MXD\X178 Notsheet 2 - REV 04 2023.mxd, 1/14/2023, 1:14:42 PM, Sydney Wicklund



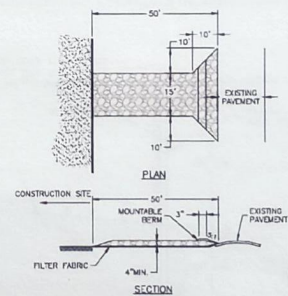
TYPICAL STREAM CROSSING
NOT TO SCALE



TYPICAL TIMBER MAT DETAIL
NOT TO SCALE



TYPICAL WETLAND CROSSING
NOT TO SCALE



TEMPORARY CONSTRUCTION ENTRANCE/EXIT
NOT TO SCALE

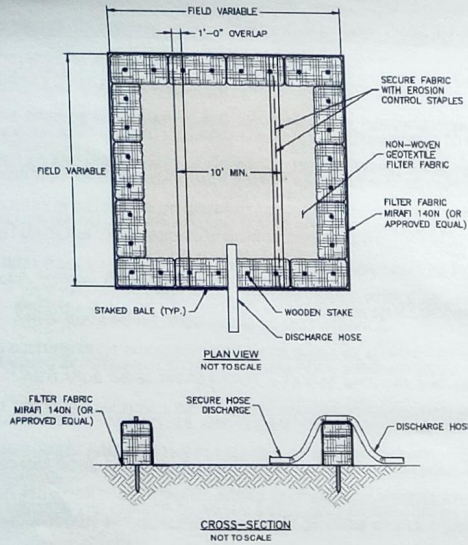
- NOTES**
1. STONE SIZE - USE 3" STONE (MINIMUM) TO 8" STONE (MAXIMUM)
 2. LENGTH - GREATER THAN OR EQUAL TO 50 FEET WITH THICKNESS OF 4"
 3. WIDTH - FIFTEEN (15) FOOT TYP BUT NOT LESS THAN FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
 4. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS ENTRANCE. IF PIPING IS IMPRACTICAL, MOUNTABLE BEAM 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 WEALTHS 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 REQUIRED APPROVALS FROM THE NATIONAL GRID ENVIRONMENTAL AND PROJECT LEAD.

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X178 TRANSMISSION LINE
REBUILD PROJECT
EASTON, SUGAR HILL, AND WOODSTOCK, NH

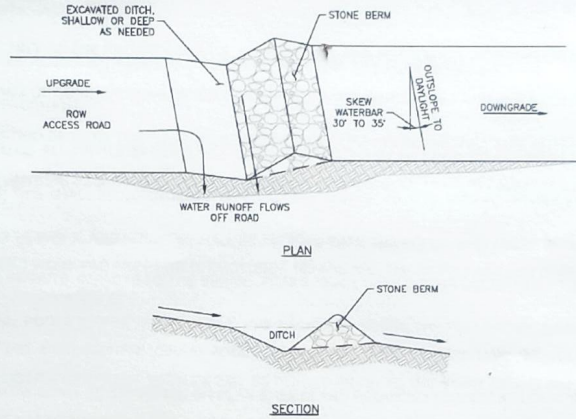
BMP DETAILS

PREPARED BY GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR EVERSOURCE ENERGY	
PROJ MGR DESIGNED BY DATE	CEM HP 12/20/2023	REVIEWED BY TLT DRAWN BY LEW 04 0191410.39	CHECKED BY DMZ SCALE REVISION NO.
			SHEET S2



DEWATERING BASIN DETAIL

NOT TO SCALE

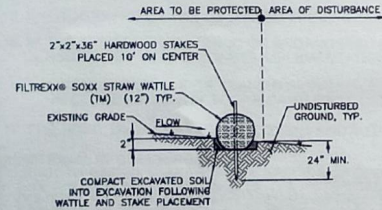


TYPICAL WATER BAR DETAIL

NOT TO SCALE

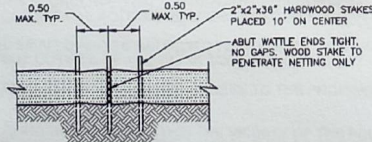
NOTES:

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



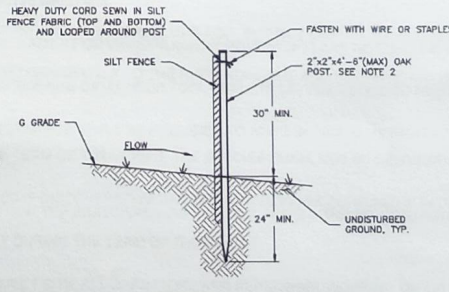
STRAW WATTLE DETAIL

NOT TO SCALE



STRAW WADDLE OVERLAP

NOT TO SCALE

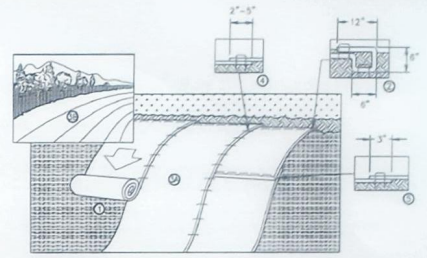


SILT FENCE DETAIL

NOT TO SCALE

NOTES:

1. CONSTRUCTION SHALL BE IN ACCORDANCE WITH NEW HAMPSHIRE ENV-W 1506 STANDARDS
2. SILT FENCE SHOULD BE INSTALLED 'TIGHT' AGAINST SILT FENCE THOROUGHLY COMPACTED SOIL & BACK INTO TRENCH AFTER INSTALLATION OF EROSION CONTROL DEVICE. SILT FENCE FABRIC SHALL NOT BE STILT. STANDARD 1/2\"/>
- 3. 1\"/>
- 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. STAPLES/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\"/>
- 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/STAPLES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDELINE. WHEN USING THE DOT SYSTEM, STAPLES/STAPLES 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\"/>
- 5. CONSECUTIVE RECP's SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3\"/>

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**X178 TRANSMISSION LINE
REBUILD PROJECT
EASTON, SUGAR HILL AND WOODSTOCK, NH**

BMP DETAILS

PREPARED BY GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR EVERSOURCE ENERGY	
PROJ MGR LEW	REVIEWED BY TLT	CHECKED BY DMZ	SHEET
DESIGNED BY HP	DRAWN BY LEW	SCALE	S3
DATE 12/20/2023	PROJECT NO 04-0191410.39	REVISION NO	

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.
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 ARE NO KNOWN OBSERVATIONS OF RARE SPECIES.

EXCEPT WHERE SHOWN OTHERWISE BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THIS DRAWING IS SOLELY FOR THE USE OF GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSMITTED, REPRODUCED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY REUSE, REVISION, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS WITHOUT THE PRIOR WRITTEN CONSENT OF GZA, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OF LIABILITY TO GZA.

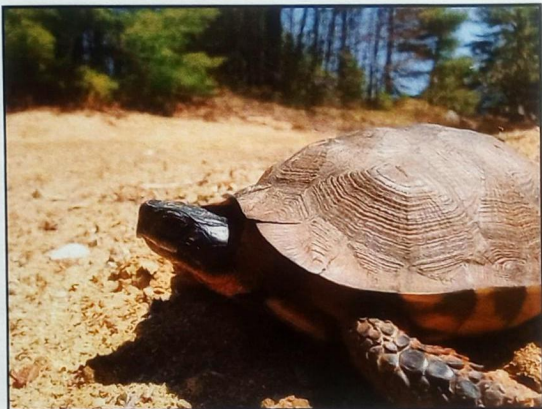
X178-2 TRANSMISSION LINE REBUILD AND OPGW PROJECT
SUGAR HILL, EASTON, LINCOLN, AND WOODSTOCK, NEW HAMPSHIRE

NOTES

 GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR  EVERSOURCE ENERGY				
PROJ MGR	LEW	REVIEWED BY:	TLT	CHECKED BY:	DMZ	SHEET S4
DESIGNED BY:	MJD	DRAWN BY:	MJD	SCALE		
DATE	11/08/2023	PROJECT NO.	04.0191410.39	REVISION NO.		

WOOD TURTLE (GLYPTEMYS INSCULPTA)

STATE SPECIES OF SPECIAL CONCERN

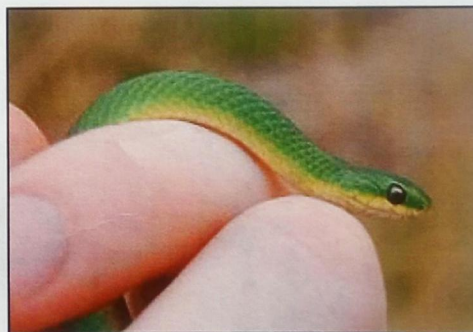


WOOD TURTLE IDENTIFICATION

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.

UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR THE USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

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

WILDLIFE NOTES

PREPARED BY  GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR 				
PROJ MGR	LEW	REVIEWED BY	ILT	CHECKED BY	DMZ	SHEET
DESIGNED BY	MJD	DRAWN BY	MJD	SCALE		
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