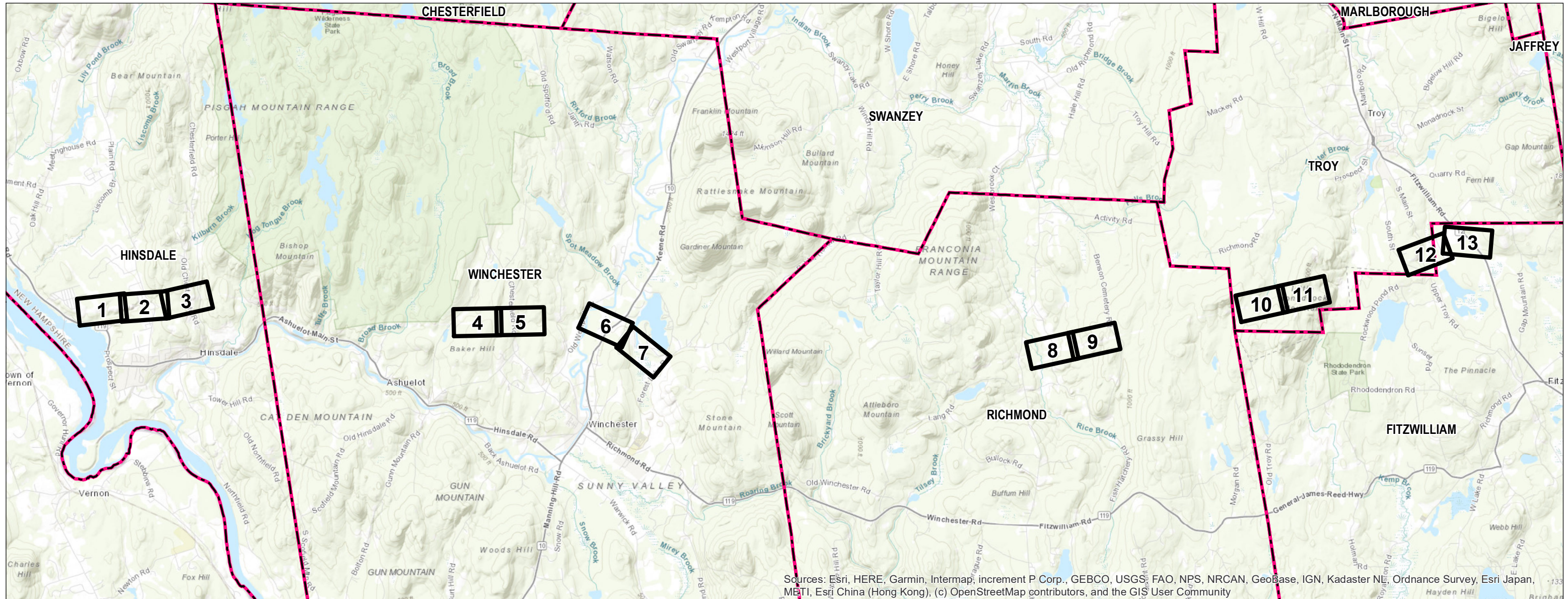


379 Transmission Line - 2022 Structure Replacement Project

HINSDALE, WINCHESTER, RICHMOND, TROY, AND FITZWILLIAM, NEW HAMPSHIRE
Environmental Permitting Planset

Date: May 05, 2022

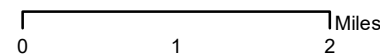


Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

PREPARED FOR:



13 Legends Drive
Hooksett, NH 03106



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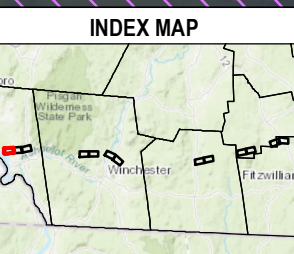
PREPARED BY:



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



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1 inch = 200 feet

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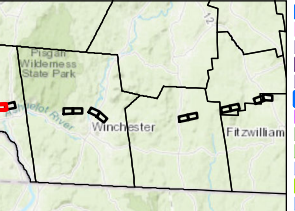
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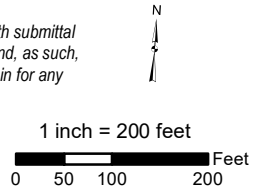
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INDEX MAP



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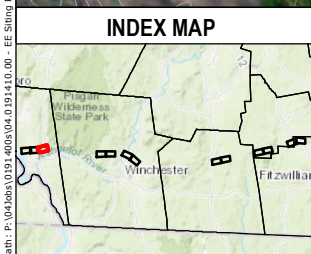
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2022 379 & N186 Transmission Line Structure Replacement Project Surface and Groundwater Overlay Plans

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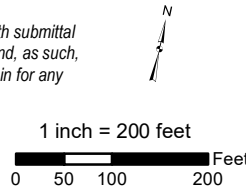


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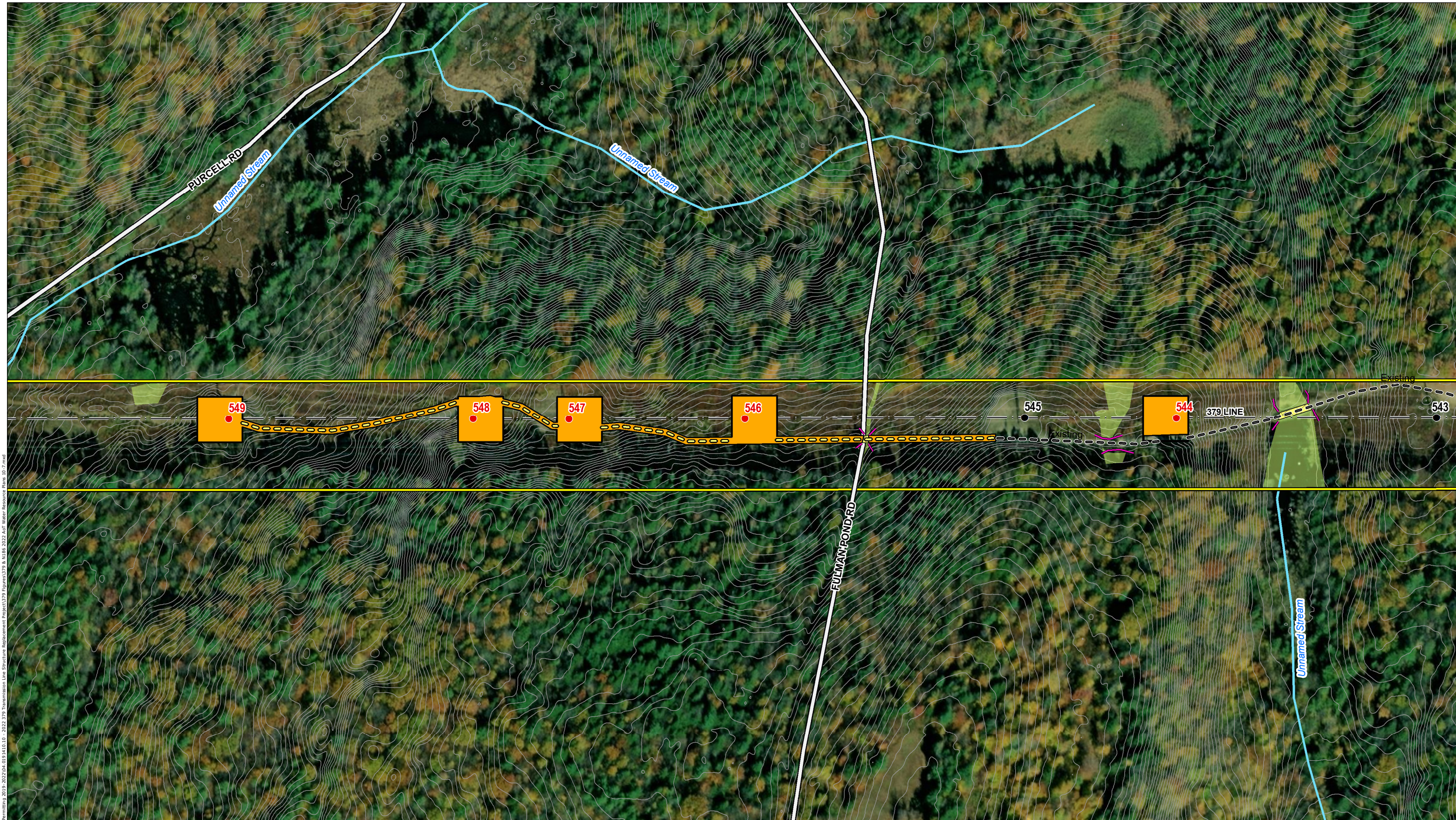
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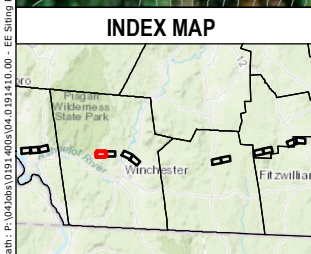
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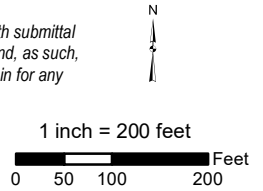


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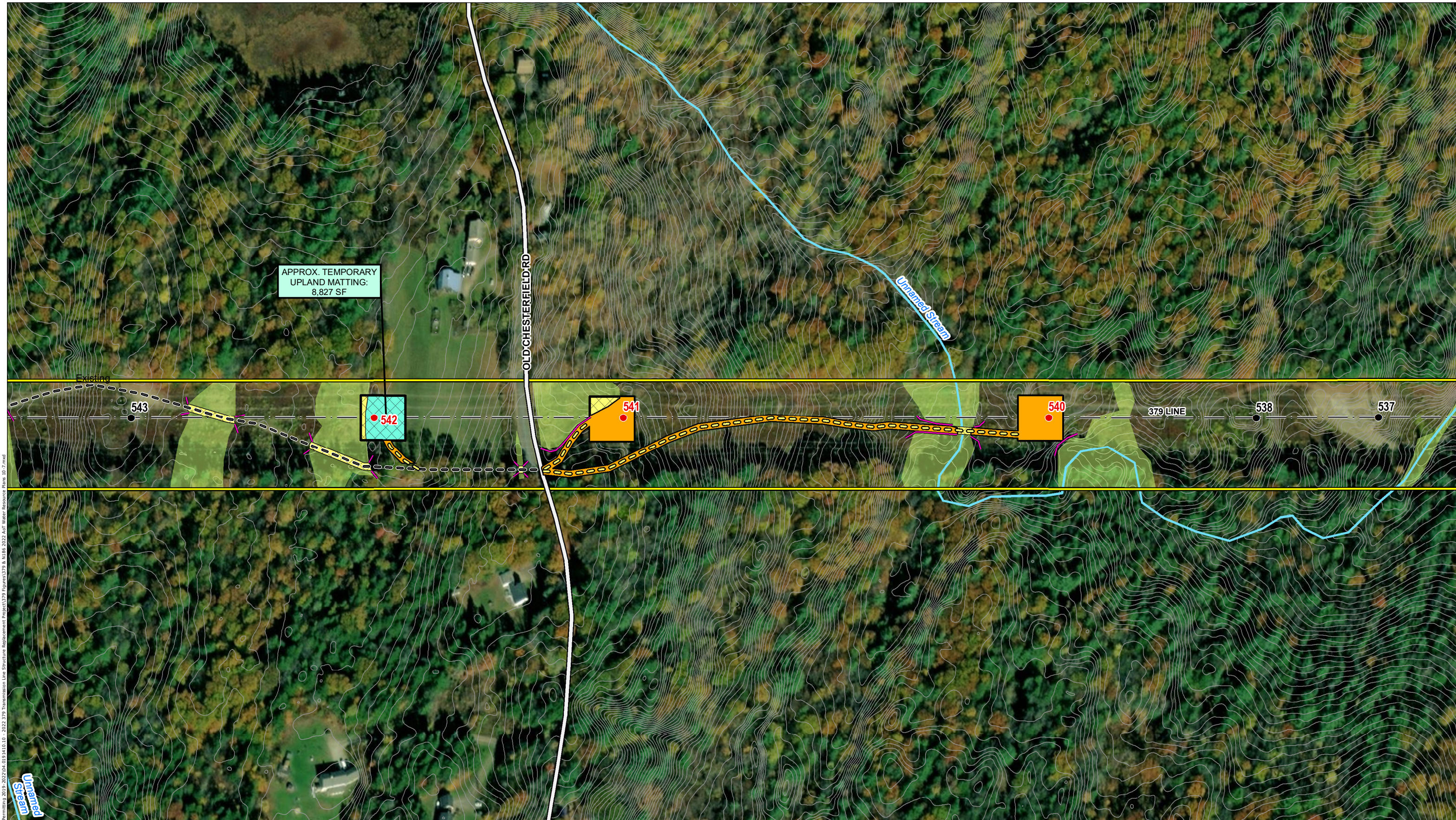
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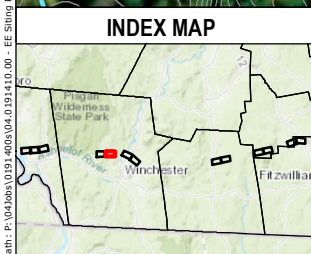


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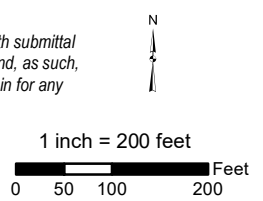


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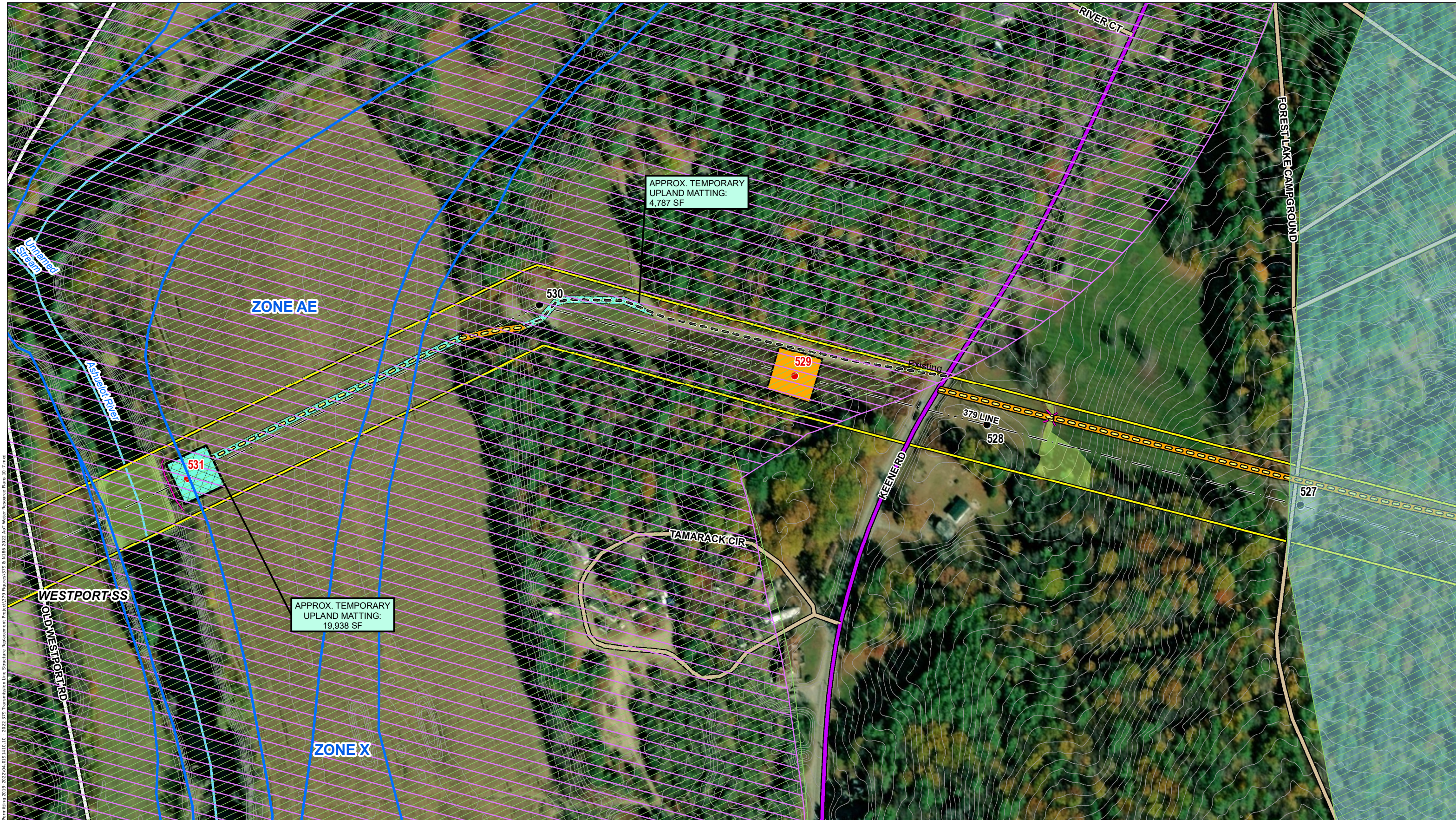
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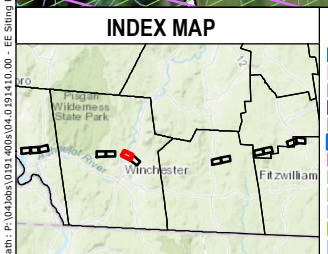


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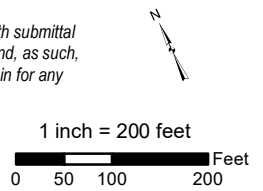


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2022 379 & N186 Transmission Line Structure Replacement Project Surface and Groundwater Overlay Plans

Winchester, NH MAP SHEET

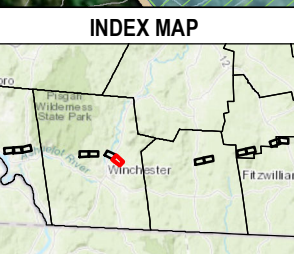
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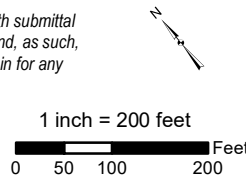


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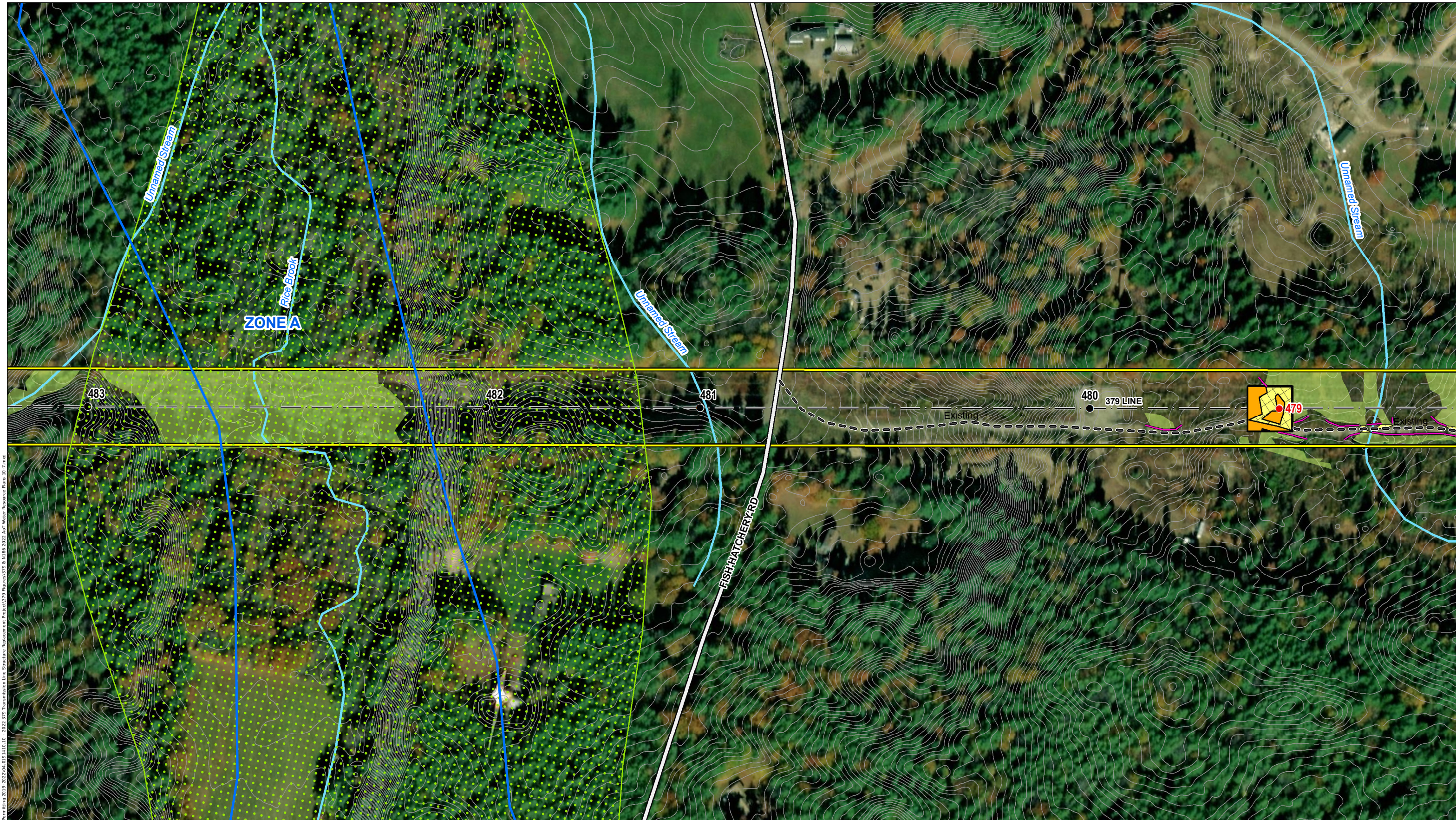
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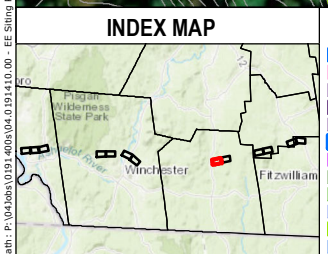


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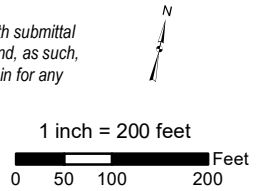


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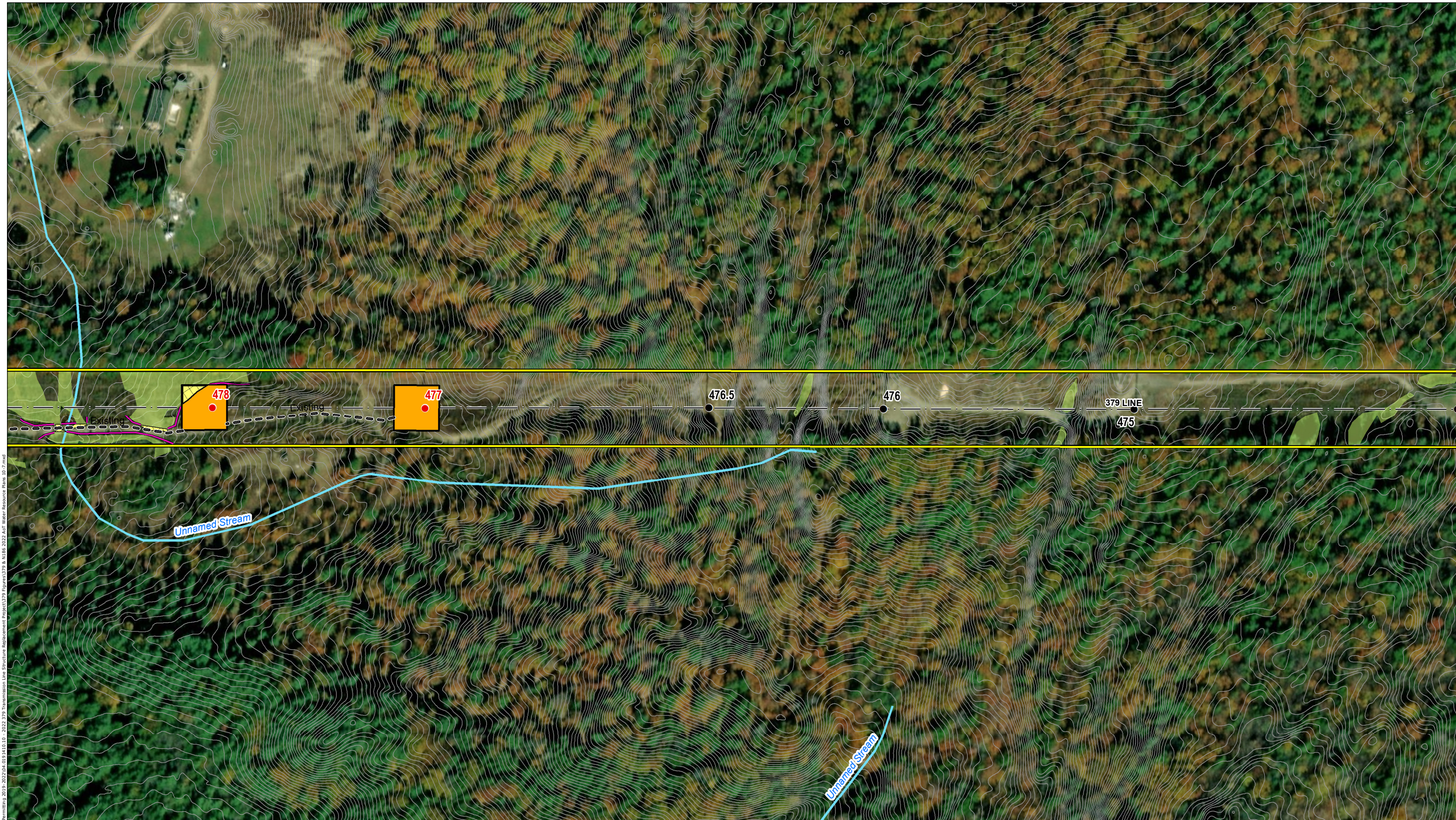
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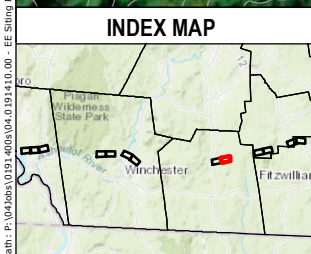


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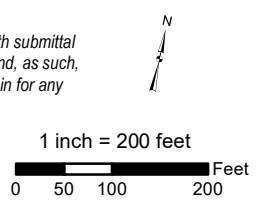


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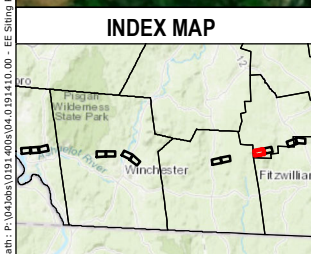


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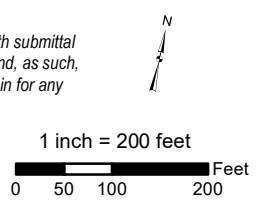


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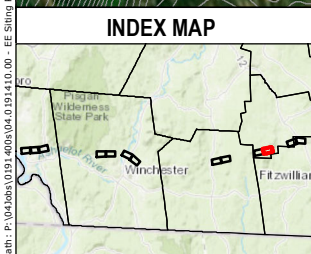


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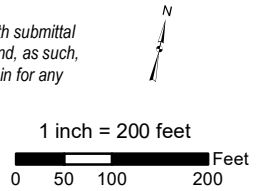


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| <ul style="list-style-type: none"> Local Potential Contamination Sources Groundwater Classification Areas GA1 (None Present) Groundwater Classification Areas GAA (None Present) Water Supply Intake Protection Areas (None Present) Watersheds with Chloride Impairments 2016 (None Present) Outstanding Resource Water (None Present) Designated River Quarter Mile Buffer Wetland Protection Areas Surface Waters with Impairments 2016 with Quarter Mile Buffer All Lakes with a Quarter Mile Buffer Groundwater Classification Areas GA2 Class A Surface Waters RSA 485A9 | <ul style="list-style-type: none"> AOT DISTURBANCE AREA EXISTING ACCESS PROPOSED ACCESS OFF-ROW ACCESS PENDING RIGHTS WORKPAD TEMPORARY WETLAND IMPACT TEMPORARY UPLAND MATTING PUBLIC ROADS PRIVATE ROAD STATE ROAD | <ul style="list-style-type: none"> EXISTING STRUCTURE - NO PROPOSED WORK EXISTING STRUCTURE TO BE REPLACED EXISTING TRANSMISSION LINE OTHER TRANSMISSION LINE APPROXIMATE ROW NHD FLOWLINES FIELD DELINEATED WETLAND POTENTIAL VERNAL POOL | <ul style="list-style-type: none"> TOWN BOUNDARY RAILROAD/RAIL TRAIL EROSION CONTROL CULVERT 2FT ELEVATION CONTOURS |
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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.

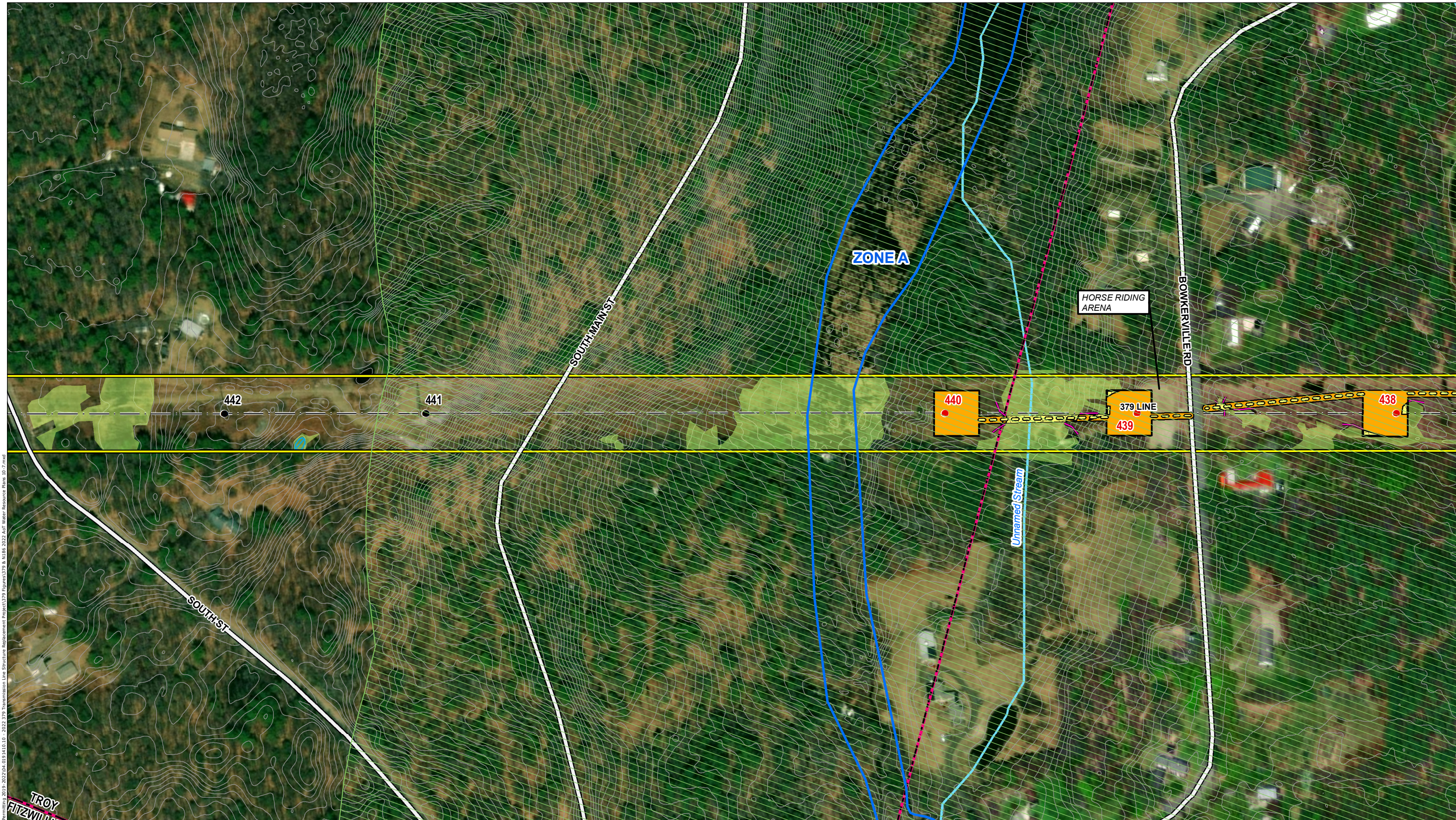


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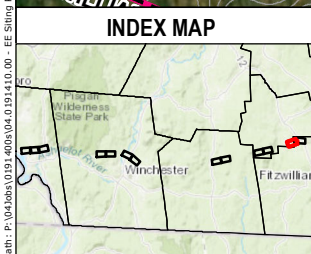
EVERSOURCE
 ENERGY

**2022 379 & N186 Transmission Line
 Structure Replacement Project
 Surface and Groundwater Overlay Plans**

Troy, NH	MAP SHEET
Date: May, 2022	11 OF 13
04.0191410.10	

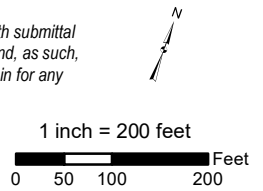


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| <ul style="list-style-type: none"> Local Potential Contamination Sources Groundwater Classification Areas GA1 (None Present) Groundwater Classification Areas GAA (None Present) Water Supply Intake Protection Areas (None Present) Watersheds with Chloride Impairments 2016 (None Present) Outstanding Resource Water (None Present) FEMA Special Flood Hazard Area Designated River Quarter Mile Buffer Wellhead Protection Areas Surface Waters with Impairments 2016 with Quarter Mile Buffer All Lakes with a Quarter Mile Buffer Groundwater Classification Areas GA2 Class A Surface Waters RSA 485A9 | <ul style="list-style-type: none"> AOT DISTURBANCE AREA EXISTING ACCESS PROPOSED ACCESS OFF-ROW ACCESS PENDING RIGHTS WORKPAD TEMPORARY WETLAND IMPACT TEMPORARY UPLAND MATTING PUBLIC ROADS PRIVATE ROAD STATE ROAD | <ul style="list-style-type: none"> EXISTING STRUCTURE - NO PROPOSED WORK EXISTING STRUCTURE TO BE REPLACED EXISTING TRANSMISSION LINE OTHER TRANSMISSION LINE APPROXIMATE ROW NHD FLOWLINES FIELD DELINEATED WETLAND POTENTIAL VERNAL POOL | <ul style="list-style-type: none"> TOWN BOUNDARY RAILROAD/RAIL TRAIL EROSION CONTROL CULVERT 2FT ELEVATION CONTOURS |
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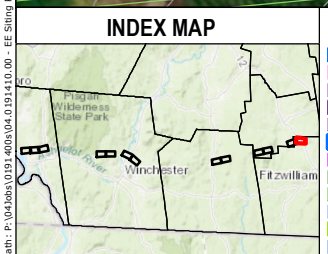


NO.	DATE	REVISIONS

EVERSOURCE ENERGY
2022 379 & N186 Transmission Line Structure Replacement Project
Surface and Groundwater Overlay Plans
 Troy/Fitzwilliam, NH MAP SHEET
 Date: May, 2022
 04.0191410.10 **12 OF 13**

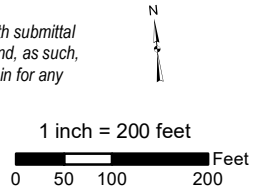


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| <ul style="list-style-type: none"> ▲ Local Potential Contamination Sources Groundwater Classification Areas GA1 (None Present) Groundwater Classification Areas GAA (None Present) Water Supply Intake Protection Areas (None Present) Watersheds with Chloride Impairments 2016 (None Present) Outstanding Resource Water (None Present) FEMA Special Flood Hazard Area Designated River Quarter Mile Buffer Wethead Protection Areas Surface Waters with Impairments 2016 with Quarter Mile Buffer All Lakes with a Quarter Mile Buffer Groundwater Classification Areas GA2 Class A Surface Waters RSA 485A9 | <ul style="list-style-type: none"> AOT DISTURBANCE AREA EXISTING ACCESS PROPOSED ACCESS OFF-ROW ACCESS PENDING RIGHTS WORKPAD TEMPORARY WETLAND IMPACT TEMPORARY UPLAND MATTING PUBLIC ROADS PRIVATE ROAD STATE ROAD | <ul style="list-style-type: none"> ● EXISTING STRUCTURE - NO PROPOSED WORK ● EXISTING STRUCTURE TO BE REPLACED EXISTING TRANSMISSION LINE OTHER TRANSMISSION LINE APPROXIMATE ROW NHD FLOWLINES FIELD DELINEATED WETLAND POTENTIAL VERNAL POOL | <ul style="list-style-type: none"> TOWN BOUNDARY RAILROAD/RAIL TRAIL EROSION CONTROL CULVERT 2FT ELEVATION CONTOURS |
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NO.	DATE	REVISIONS

EVERSOURCE ENERGY
2022 379 & N186 Transmission Line Structure Replacement Project
Surface and Groundwater Overlay Plans
 Fitzwilliam, NH MAP SHEET
 Date: May, 2022
 04.0191410.10 **13 OF 13**

© 2022 - GZA GeoEnvironmental, Inc. P:04.Jobs\0191410.00 - EE Stiling Permitting 2019-2022\04.0191410.10 - 2022 379 Transmission Line Structure Replacement Project\379 Figures\379 Aot Notesheet1 10-7.mxd, 7/7/2022, 7:47:06 AM, lindsey.white

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.
3. WETLAND IMPACTS ASSOCIATED WITH WETLAND CROSSINGS ARE REQUIRED FOR ACCESS BETWEEN STRUCTURES WITHIN THE RIGHT OF WAY.
4. ADEQUATE PRECAUTION SHALL BE EXERCISED TO AVOID SPILLAGE OF FUEL OILS, CHEMICALS, OR SIMILAR SUBSTANCES; NO FUELS, LUBRICANTS, CHEMICALS OR SIMILAR SUBSTANCES SHALL BE STORED BENEATH TREES OR IN THE VICINITY OF ANY WETLANDS, RIVER, STREAM OR OTHER BODY OF WATER; OR IN THE VICINITY OF NATURAL OR MAN-MADE CHANNELS LEADING THERETO. NO POWER EQUIPMENT SHALL BE STORED, MAINTAINED, OR FUELED IN ANY AREA ADJACENT TO A WETLAND, RIVER, STREAM OR OTHER BODY OF WATER.
5. REMOVE COMPLETELY ALL CONTAMINATION FROM ANY SPILLAGE OF CHEMICALS OR PETROLEUM PRODUCT WITH COMPLETE REHABILITATION OF THE AFFECTED AREA.
6. ACCESS ROUTES HAVE BEEN SELECTED TO PREVENT DEGRADATION OF THE RIGHT-OF-WAY AND MINIMIZE ENVIRONMENTAL IMPACT. OPERATIONS SHALL BE CONFINED TO THE SPECIFIED ACCESS ROUTES WITHIN THE PROPOSED WETLAND IMPACT AREA. ACCESS ROUTES SHALL NOT EXCEED A 16 FOOT-WIDTH AND 20 FOOT TOTAL IMPACT AREA.
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 AND ROCKS SHALL NOT BE REMOVED, AND THERE SHALL BE NO EXCAVATIONS, FILLS OR GRADING DONE ADJACENT TO WETLANDS, UNLESS MINOR EXCAVATIONS IS NEEDED FOR ACCESS.
9. TIMBER MATS WILL BE USED ALONG ACCESS ROUTES WITHIN WETLAND AREAS. THESE MATS ARE CONSTRUCTED OF HEAVY TIMBERS OR COMPOSITE MATERIAL, BOLTED TOGETHER, AND ARE PLACED END-TO-END IN THE WETLAND TO SUPPORT HEAVY EQUIPMENT. ALL SWAMP MATS SHALL BE PLACED AND REMOVED SO AS NOT TO CAUSE ANY RUTS, CHANNELS OR DEPRESSIONS, OR OTHERWISE CAUSE ANY UNDUE DISTURBANCE TO WETLANDS.
10. IF TIMBER MAT BMP IS NOT SUFFICIENT DUE TO HIGH WATER, ADDITIONAL BMP'S MAY INCLUDE THE PLACEMENT OF GEOTEXTILE FABRIC, 3"-4" STONE, AND GRAVEL TO PROVIDE A SUITABLE ROAD BED. A TEMPORARY CULVERT MAY BE REQUIRED IN AREAS OF HIGH FLOW TO MAINTAIN HYDROLOGIC CONNECTIVITY. ALL MATERIAL WILL BE REMOVED FROM JURISDICTIONAL AREAS AFTER CONSTRUCTION COMPLETION.
11. NO MATERIAL SHALL BE PLACED IN ANY LOCATION OR IN ANY MANNER SO AS TO IMPAIR SURFACE WATER FLOW INTO, THROUGH OR OUT OF ANY WETLAND AREA. NO INSTALLATION SHALL CREATE AN IMPOUNDMENT THAT WILL IMPEDE THE FLOW OF WATER OR CAUSE FLOODING.
12. NO MATERIAL SHALL BE TAKEN FROM THE WETLANDS AREA EXCEPT THAT WHICH MUST NECESSARILY BE REMOVED FOR THE STRUCTURE OR FOUNDATION PLACEMENT OR STABILIZATION. ALL EXCESS MATERIAL TAKEN FROM THE WETLAND WILL BE REMOVED FROM THE SITE.
13. ANY PROPOSED SUPPORT FILLS SHALL BE CLEAN GRAVEL AND STONE, FREE OF WASTE METAL PRODUCTS, ORGANIC MATERIALS AND SIMILAR DEBRIS AND SHALL NOT EXCEED THE AMOUNT PERMITTED. THIS ALLOWABLE FILL IS THE ONLY FILL THAT MAY REMAIN IN THE WETLAND AFTER CONSTRUCTION. ALL CUT AND FILLS SLOPES SHALL BE SEEDED/LOAMED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
14. EXCESS SOILS PRODUCED FROM DRILLING WILL BE DISPOSED IN APPROVED UPLAND AREAS AT A MINIMUM DISTANCE OF 100-FT FROM WETLAND AREAS.
15. INSTALL NEW POLES IN THE LOCATIONS DESIGNATED ON THE PERMITTING PLANS.
16. CABLE INSTALLATION WILL BE PERFORMED IN A MANNER SO AS TO AVOID, OR LIMIT TO THE MAXIMUM EXTENT POSSIBLE, TRAVERSING WETLANDS WITH HEAVY EQUIPMENT. IN SOME CASES, A HELICOPTER MAY BE USED DURING THE INSTALLATION TO MINIMIZE IMPACTS.
17. ALL TIMBER MATS, MATERIAL, AND DEBRIS WILL BE REMOVED FROM THE WORK AREA UPON THE COMPLETION OF CONSTRUCTION.
18. UPLAND DISTURBED AREAS SHALL BE RESTORED AND STABILIZED UPON COMPLETION OF CONSTRUCTION. WORK PAD RESTORATION SHOULD INCLUDE REDUCING THE WORK PAD TO A 30 BY 60 FOOT AREA, AND REDUCING SLOPES TO A MAXIMUM OF 25%. STOCKPILED MATERIAL SHOULD BE SPREAD TO REDUCE ANY UNNECESSARY SLOPES. GRAVEL WORK PADS AND SLOPES SHOULD BE SCARIFIED TO A MINIMUM OF 3" BEFORE SPREADING TOPSOIL/LOAM AND SEED, AS NECESSARY.
19. ALL TEMPORARY WETLAND IMPACTS WILL BE RE-GRADED TO ORIGINAL CONTOURS FOLLOWING CONSTRUCTION. NEW ENGLAND EROSION CONTROL/RESTORATION MIX, AVAILABLE THROUGH NEW ENGLAND WETLAND PLANTS, INC., 820 WEST STREET, AMHERST, MA 01002, 413-548-8000, OR EQUIVALENT SEED MIX SHALL BE APPLIED IN WETLAND AREAS THAT ARE NOT INUNDATED, AS NECESSARY.
20. SEDIMENT AND EROSION CONTROL MEASURES WILL BE EVALUATED AND REMOVED IF NECESSARY UPON THE COMPLETION OF CONSTRUCTION.
21. COMMERCIAL LOAM WILL NOT BE USED AS PART OF RESTORATION. ONLY IN-SITU TOPSOIL WILL BE USED TO RESTORE DISTURBED AREAS.

WINTER CONSTRUCTION NOTES

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

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).

GENERAL NOTES:

OWNER: EVERSOURCE ENERGY
13 LEGENDS DRIVE
HOOKSETT, NH 03106

1. BASE PLAN PROVIDED BY EVERSOURCE ENERGY. EVERSOURCE ENERGY PROVIDED THE UTILITY DESIGN.
2. JURISDICTIONAL WETLANDS WERE DELINEATED BY GZA IN 2016 AND CONFIRMED IN 2022, IN ACCORDANCE WITH THE 1987 U.S. ARMY CORPS OF ENGINEERS' "WETLANDS DELINEATION MANUAL, TECHNICAL REPORT Y-87-1," AND REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTH CENTRAL AND NORTHEAST REGION," JANUARY 2012.
3. GZA EVALUATED WETLANDS AS POTENTIAL VERNAL POOLS IN 2016 AND 2022 IN ACORDANCE WITH "IDENTIFICATION AND DOCUMENTATION OF VERNAL POOLS IN NEW HAMPSHIRE," 2016, NEW HAMPSHIRE FISH AND GAME DEPARTMENT, NONGAME AND ENDANGERED WILDLIFE PROGRAM.
4. GZA WILL PERFORM A WETLANDS FUNCTION AND VALUES ASSESSMENT IN ACCORDANCE WITH THE ACOE'S "HIGHWAY METHODOLOGY WORKBOOK SUPPLEMENT," SEPTEMBER 1999, IN 2020, AS NECESSARY.
5. SITE PLAN IS FOR PERMITTING PURPOSES ONLY AND DOES NOT REPRESENT A PROPERTY BOUNDARY SURVEY.
6. THE PROJECT WILL BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.
7. IN ACCORANCE WITH ENV-WQ 1505.02, THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCEED 5 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
 - A MINIMUM 85 PERCENT VEGETATED GROWTH HAS BEEN ESTABLISHED
 - A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL HAS BEEN INSTALLED
 - OR, EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

EROSION CONTROL NOTES:



1. INSTALLATION OF EROSION CONTROL GRINDINGS AND/OR SILT FENCES SHALL BE COMPLETE PRIOR TO THE START OF WORK IN ANY GIVEN AREA. EROSION CONTROLS SHALL BE USED DURING CONSTRUCTION AND REMOVED WHEN ALL SLOPES HAVE A HEALTHY STAND OF VEGETATION COVER. EROSION CONTROL MEASURES SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER .25" OR GREATER RAINFALL EVENTS.
2. AS REQUIRED, CONSTRUCT TEMPORARY BERMS, SILTATION FENCES, SEDIMENT TRAPS, ETC. TO PREVENT EROSION & SEDIMENTATION OF WETLANDS.
3. THE WORK AREA SHALL BE GRADED AND OTHERWISE SHAPED IN SUCH A MANNER AS TO MINIMIZE SOIL EROSION, SILTATION OF DRAINAGE CHANNELS, DAMAGE TO EXISTING VEGETATION, AND DAMAGE TO PROPERTY OUTSIDE LIMITS OF THE WORK AREA. EROSION CONTROL GRINDINGS WILL BE NECESSARY TO ACCOMPLISH THIS END.
4. ANY STRIPPED TOPSOIL SHALL BE STOCKPILED, WITHOUT COMPACTION, AND STABILIZED AGAINST EROSION, AS NECESSARY.
5. PERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS. WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 15 TO SEPTEMBER 15. NO DISTURBED AREA SHALL BE LEFT EXPOSED DURING WINTER MONTHS, PLANT ANNUAL RYEGRASS PRIOR TO OCTOBER 15TH.
6. EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER EVERY HALF-INCH OF RAINFALL.

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**379 & N186 TRANSMISSION LINE
STRUCTURE REPLACEMENT PROJECT**

HINSDALE, WINCHESTER, RICHMOND, TROY,
AND FITZWILLIAM, NEW HAMPSHIRE

NOTES

PREPARED BY:  GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: 	
PROJ MGR: LEW	REVIEWED BY: TLT	CHECKED BY: DMZ	SHEET S1
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	
DATE: 07/07/2022	PROJECT NO: 04.0191410.10	REVISION NO:	

Best Management Practices (BMP's) for Straw wattles

Definition and purpose:

Straw wattles are burlap rolls filled with straw that trap sediment and interrupt water flow by reducing slope lengths.

Applications:

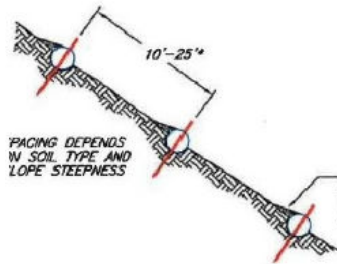
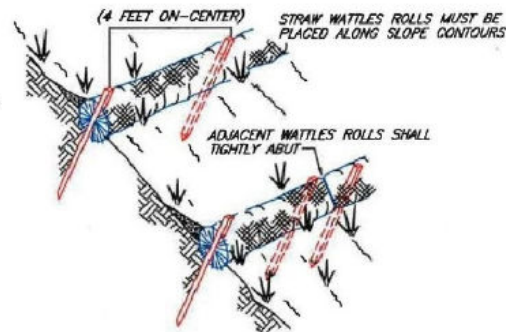
- * Along erodible or unstabilized slopes
- * Spread overland waterflow
- * Trap sediment
- * Around storm drain inlets to slow water and settle out sediment
- * Overlap ends approximately 6 inches

Installation:

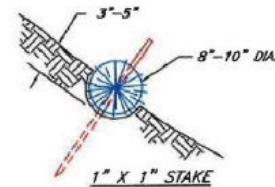
Straw wattles are installed parallel to slope contours and perpendicular to sheet flow.

Spacing* - Dependent on slope length, soil steepness and soil type (general range 10 - 25').

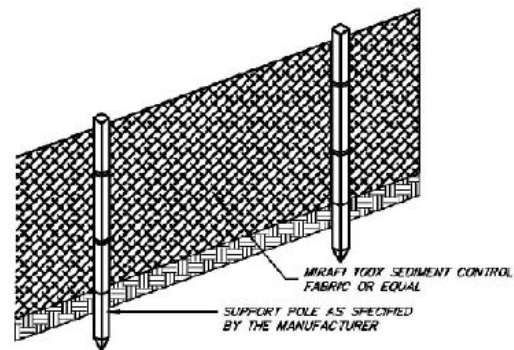
Trenching - 2"-5" inch trench
Stacking - at each end and four foot on center (i.e. 25 foot wattle uses 6 stacks)



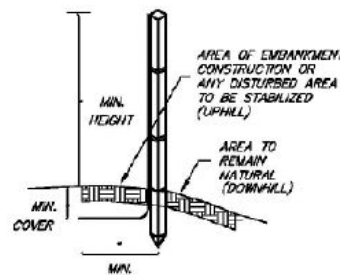
SEDIMENT, ORGANIC MATTER, AND NATIVE SEEDS ARE CAPTURED BEHIND THE WATTLE ROWS.



NOT TO SCALE



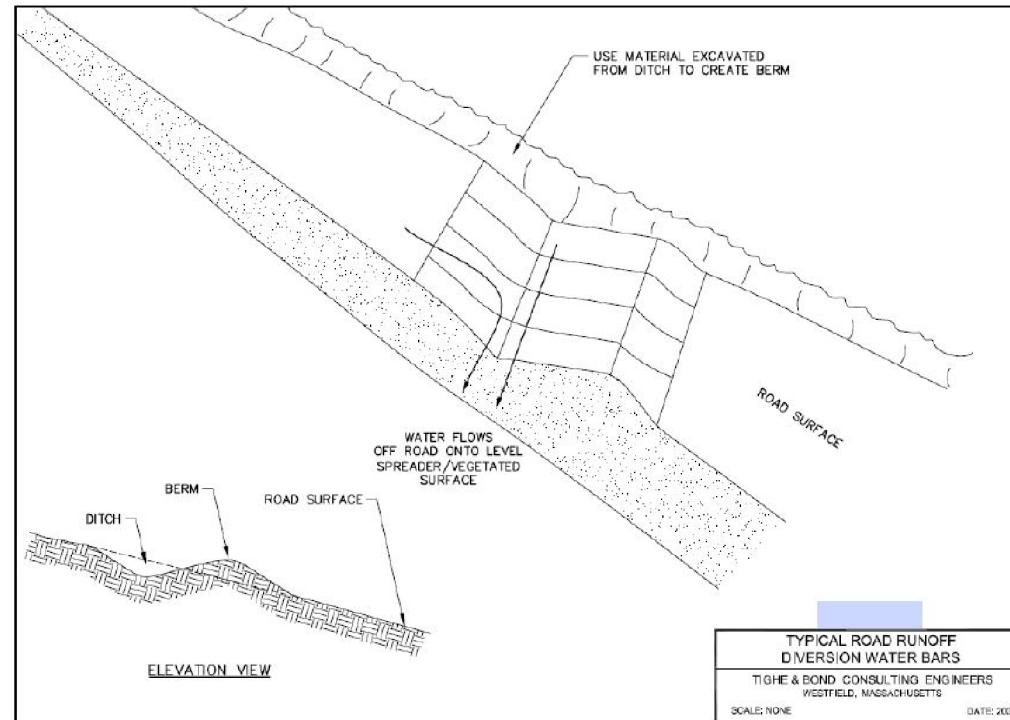
FRONT VIEW



SIDE VIEW

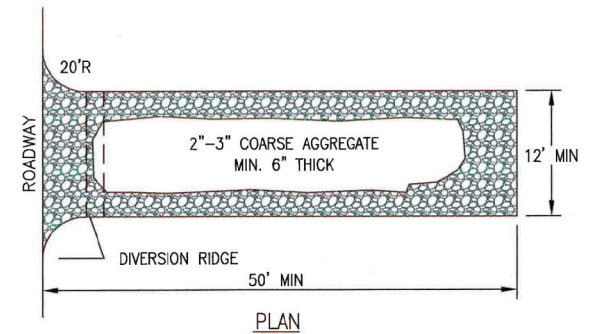
NOTES (SILT FENCE)

1. THE HEIGHT OF THE BARRIER SHALL NOT EXCEED 36 INCHES.
2. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPliced TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP, AND SECURELY SEALED. SEE MANUFACTURER'S RECOMMENDATIONS.
3. POSTS SHALL BE PLACED AT A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 12 INCHES). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL BE AS MANUFACTURER RECOMMENDS.
4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 6 INCHES WIDE AND 6 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE OF THE BARRIER IN ACCORDANCE WITH RECOMMENDATIONS
5. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE, AND WILL EXTEND A MINIMUM OF 8 INCHES INTO THE TRENCH. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
6. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.
7. FABRIC BARRIERS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
8. FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST ONCE DAILY DURING PROLONGED RAINFALL AND ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
9. SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
10. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
11. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.



ELEVATION VIEW

TYPICAL ROAD RUNOFF DIVERSION WATER BARS
TIGHE & BOND CONSULTING ENGINEERS
WESTFIELD, MASSACHUSETTS
SCALE: NONE DATE: 2007



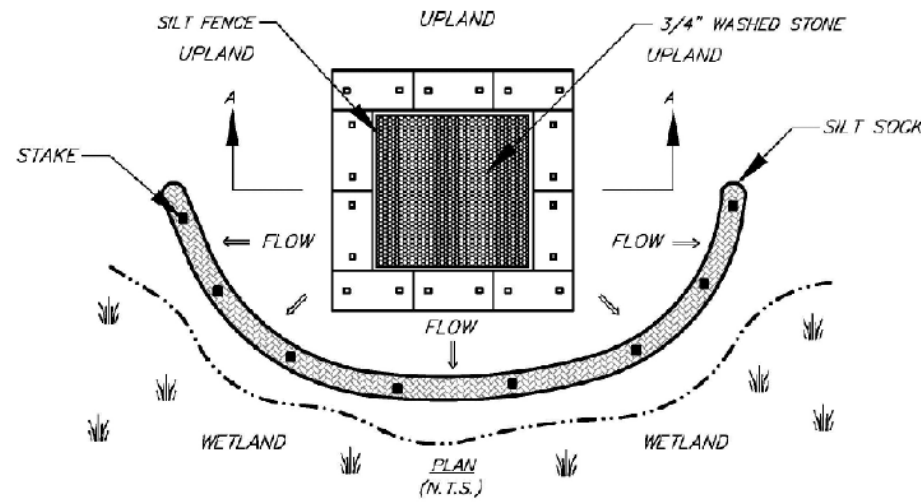
PLAN

NOTES:

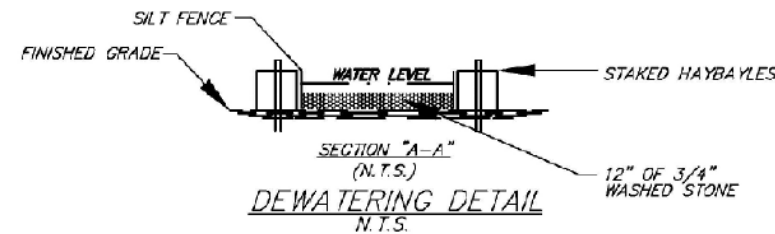
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.

CONSTRUCTION ENTRANCE

NOT TO SCALE



PLAN (N.T.S.)



SECTION "A-A" (N.T.S.)
DEWATERING DETAIL
N.T.S.

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379 & N186 TRANSMISSION LINE
STRUCTURE REPLACEMENT PROJECT
HINSDALE, WINCHESTER, RICHMOND, TROY,
AND FITZWILLIAM, NEW HAMPSHIRE

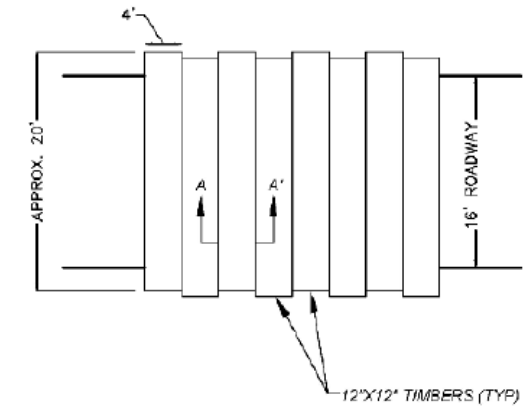
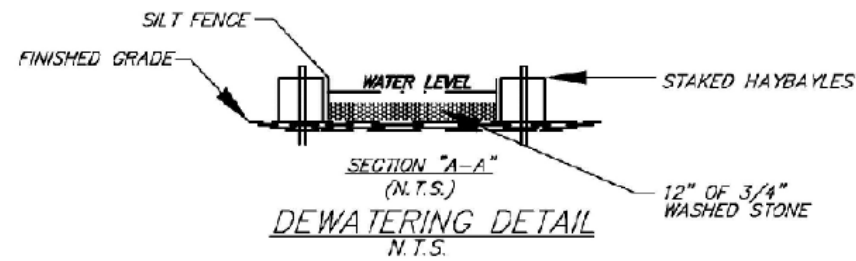
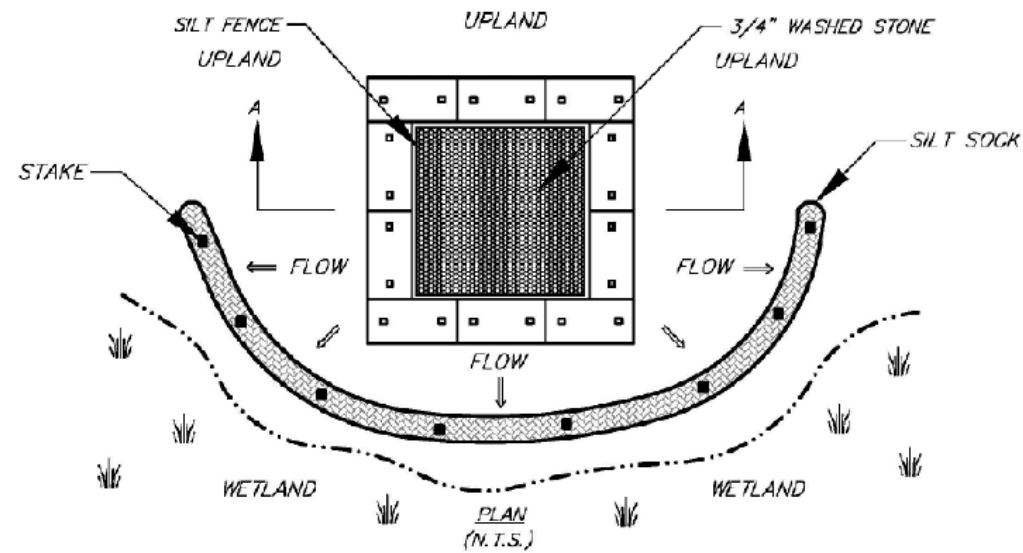
BMP DETAILS

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

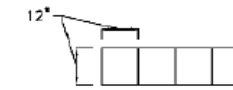
PREPARED FOR:
EVERSOURCE
ENERGY

PROJ MGR: CEM	REVIEWED BY: TLT	CHECKED BY: DMZ	SHEET S2
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	
DATE: 04/28/2022	PROJECT NO: 04.0191410.10	REVISION NO:	

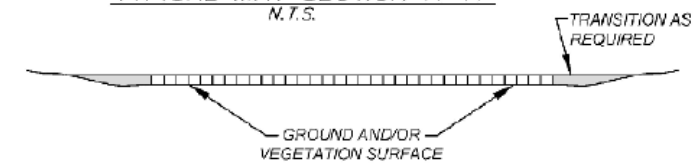
© 2022 - GZA GeoEnvironmental, Inc. P:\04\Jobs\0191410\00 - EE Siting Permitting 2019-2022\04.0191410.10 - 2022 379 Transmission Line Structure Replacement Project\379 Figures\379 AOT Notesheet 3 10-7.mxd, 4/28/2022, 1:06:28 PM, lindsey.white



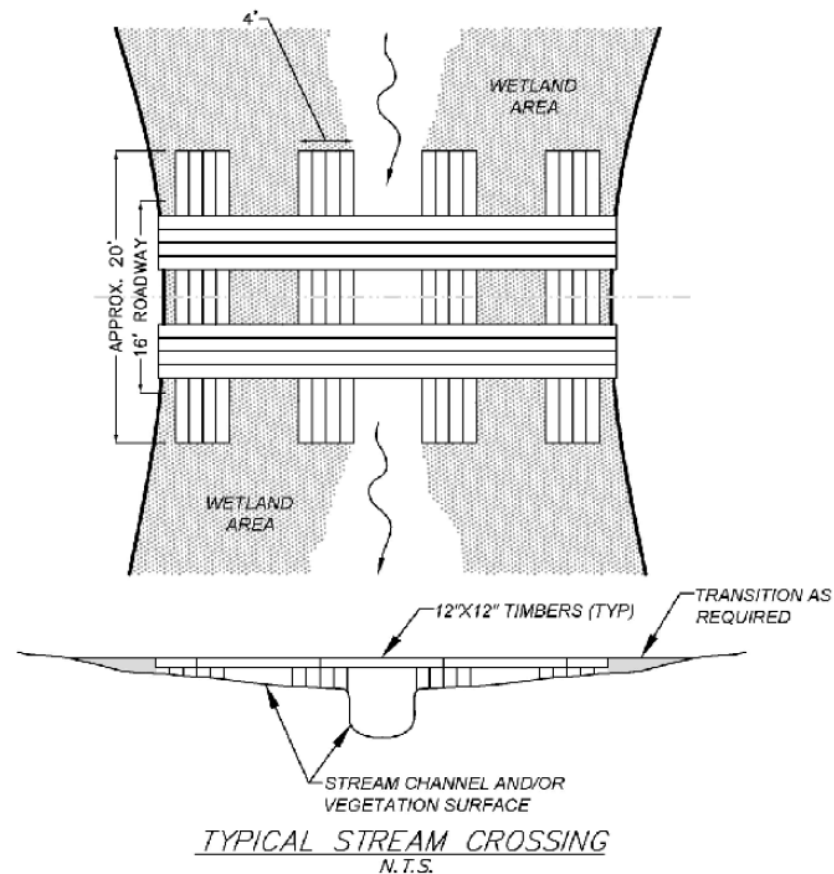
TYPICAL SWAMP MAT PLAN VIEW
N.T.S.



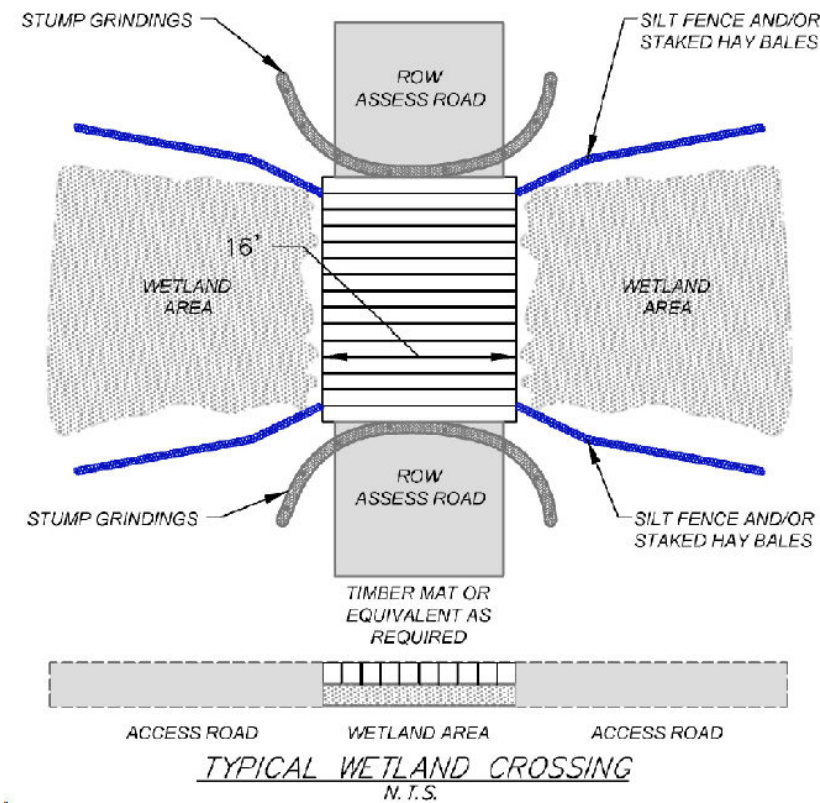
TYPICAL MAT SECTION A-A
N.T.S.



TYPICAL SWAMP MAT SECTION DETAIL
N.T.S.



TYPICAL STREAM CROSSING
N.T.S.



TYPICAL WETLAND CROSSING
N.T.S.

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**379 & N186 TRANSMISSION LINE
STRUCTURE REPLACEMENT PROJECT**
HINSDALE, WINCHESTER, RICHMOND, TROY,
AND FITZWILLIAM, NEW HAMPSHIRE

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 S3
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	
DATE: 04/28/2022	PROJECT NO: 04.0191410.10	REVISION NO.	

© 2022 - GZA GeoEnvironmental, Inc. P:\04.Jobs\0191410.00 - EE Siting Permitting 2019-2022\04.0191410.10 - 2022 379 Transmission Line Structure Replacement Project\379 Figures\379 Notesheet 1 NHFG Review.mxd, 6/30/2022, 12:46:39 PM, lindsay.white

NOTES

1. NORTHERN BLACK RACER (STATE THREATENED), SPOTTED TURTLE (STATE THREATENED), AND BLANDING'S TURTLE (STATE ENDANGERED) 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.
2. VERNAL POOLS AND POTENTIAL VERNAL POOLS SHALL BE FLAGGED PRIOR TO WORK AND ALL IMPACTS TO VERNAL POOLS AND POTENTIAL VERNAL POOLS SHALL BE AVOIDED.
3. TURTLES MAY BE ATTRACTED TO DISTURBED GROUND DURING NESTING SEASON (MAY 15TH – JUNE 30TH). ALL TURTLE SPECIES NESTS ARE PROTECTED BY NH LAWS. 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.
4. OBSERVATIONS OF NORTHERN BLACK RACERS IN THE MONTHS OF APRIL-MAY AND SEPTEMBER-OCTOBER MAY INDICATE THE POTENTIAL FOR A DEN SITE ON OR NEAR THE PROJECT SITE. OBSERVATIONS OF THIS SPECIES DURING THIS TIMEFRAME SHALL BE REPORTED IMMEDIATELY TO THE NEW HAMPSHIRE FISH AND GAME DEPARTMENT NONGAME AND ENDANGERED WILDLIFE ENVIRONMENTAL REVIEW PROGRAM. PLEASE CONTACT MELISSA DOPERLSKI (603-479-1129) OR BRENDAN CLIFFORD (603-944-0885). OBSERVATIONS OF THIS SPECIES OUTSIDE OF THIS TIMEFRAME CAN FOLLOW GENERAL REPORTING GUIDANCE. PLEASE INCLUDE PHOTOGRAPH WITH TEXT IF FEASIBLE.
5. AT THE CONCLUSION OF THE PROJECT, A SUMMARY REPORT OF ANY RARE SPECIES OBSERVATIONS SHALL BE PROVIDED TO THE NHFG NONGAME PROGRAM.
6. 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;
7. 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;
8. 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;
9. 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.
10. SITE OPERATORS 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.
11. THE NHFG, INCLUDING ITS EMPLOYEES AND AUTHORIZED AGENTS, SHALL HAVE ACCESS TO THE PROPERTY DURING THE TERM OF THE PERMIT.

NORTHERN BLACK RACER (COLUBER CONSTRICTOR)

STATE THREATENED



NORTHERN BLACK RACER IDENTIFICATION

1. SOLID BLACK WITH A WHITE THROAT.
2. SLENDER WITH GLOSSY SCLAES.
3. 3-6 FT. LONG.
4. HATCHLINGS ARE VERY SMALL AND PATTERNED.



SPOTTED TURTLE (CLEMYS GUTTATA)

STATE THREATENED

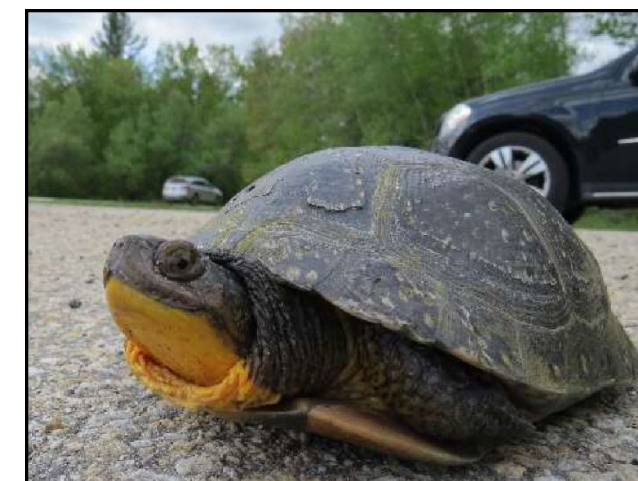


SPOTTED TURTLE IDENTIFICATION

1. SMALL, MOSTLY AQUATIC WITH BLACK OR DARK BROWN WITH YELLOW SPOTS.
2. FAIRLY FLAT SHELL COMPARED TO BLANDING'S TURTLE.
3. SPOTS VARY IN COLOR AND NUMBER.

BLANDING'S TURTLE (EMYDOIDEA BLANDINGII)

STATE ENDANGERED



BLANDING'S TURTLE IDENTIFICATION

1. LARGE, DARK/BLACK DOMED SHELL WITH LIGHTER SPECKLES.
2. DISTINCT YELLOW THROAT/CHIN.
3. AQUATIC BUT OFTEN MOVES ON LAND.

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379 TRANSMISSION LINE
STRUCTURE REPLACEMENT PROJECT
FITZWILLIAM, HINSDALE, RICHMOND, TROY,
AND WINCHESTER, NEW HAMPSHIRE

WILDLIFE NOTES

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 S4
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	
DATE: 06/30/2022	PROJECT NO: 04.0191410.10	REVISION NO:	

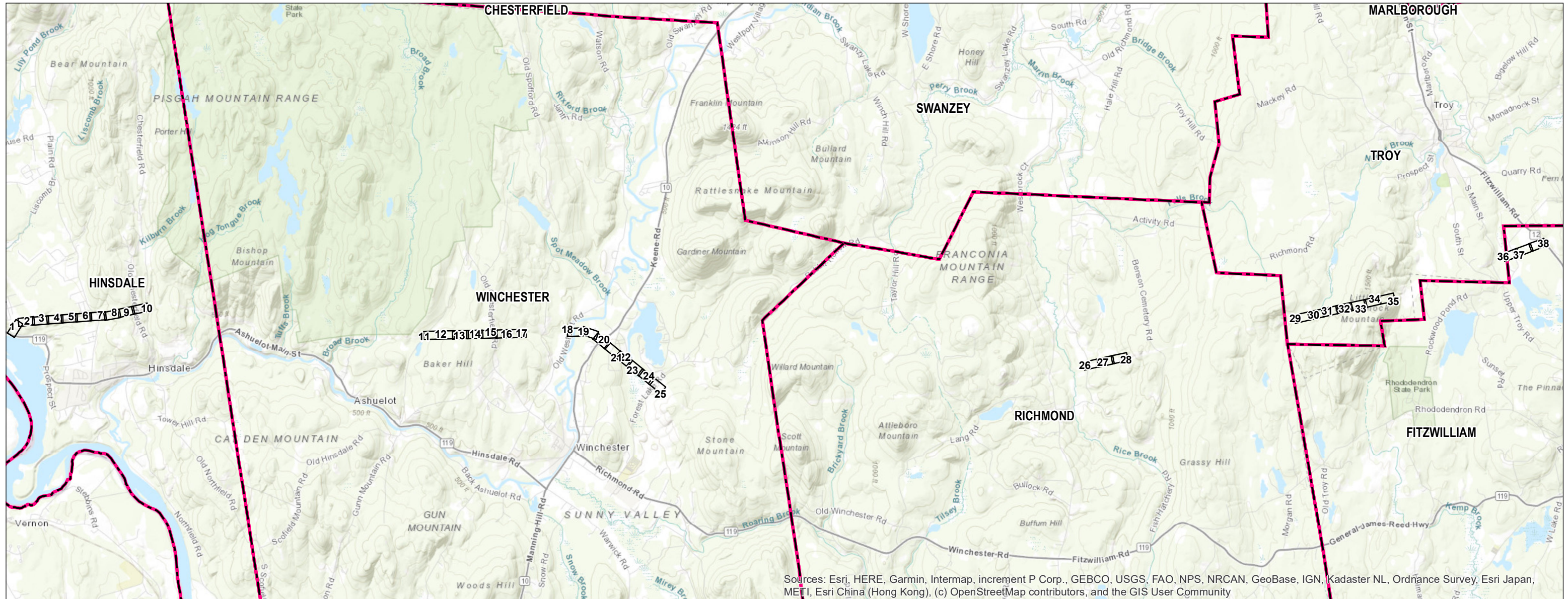
*ALL PHOTOS AND IDENTIFICATION INFORMATION COURTESY OF NEW HAMPSHIRE FISH AND GAME DEPARTMENT.

379 Transmission Line - 2022 Structure Replacement Project

HINSDALE, WINCHESTER, RICHMOND, TROY, AND FITZWILLIAM, NEW HAMPSHIRE

Environmental Permitting Planset

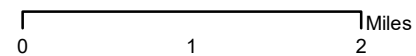
Date: May 05, 2022



PREPARED FOR:



13 Legends Drive
Hooksett, NH 03106



INDEX OF FIGURES

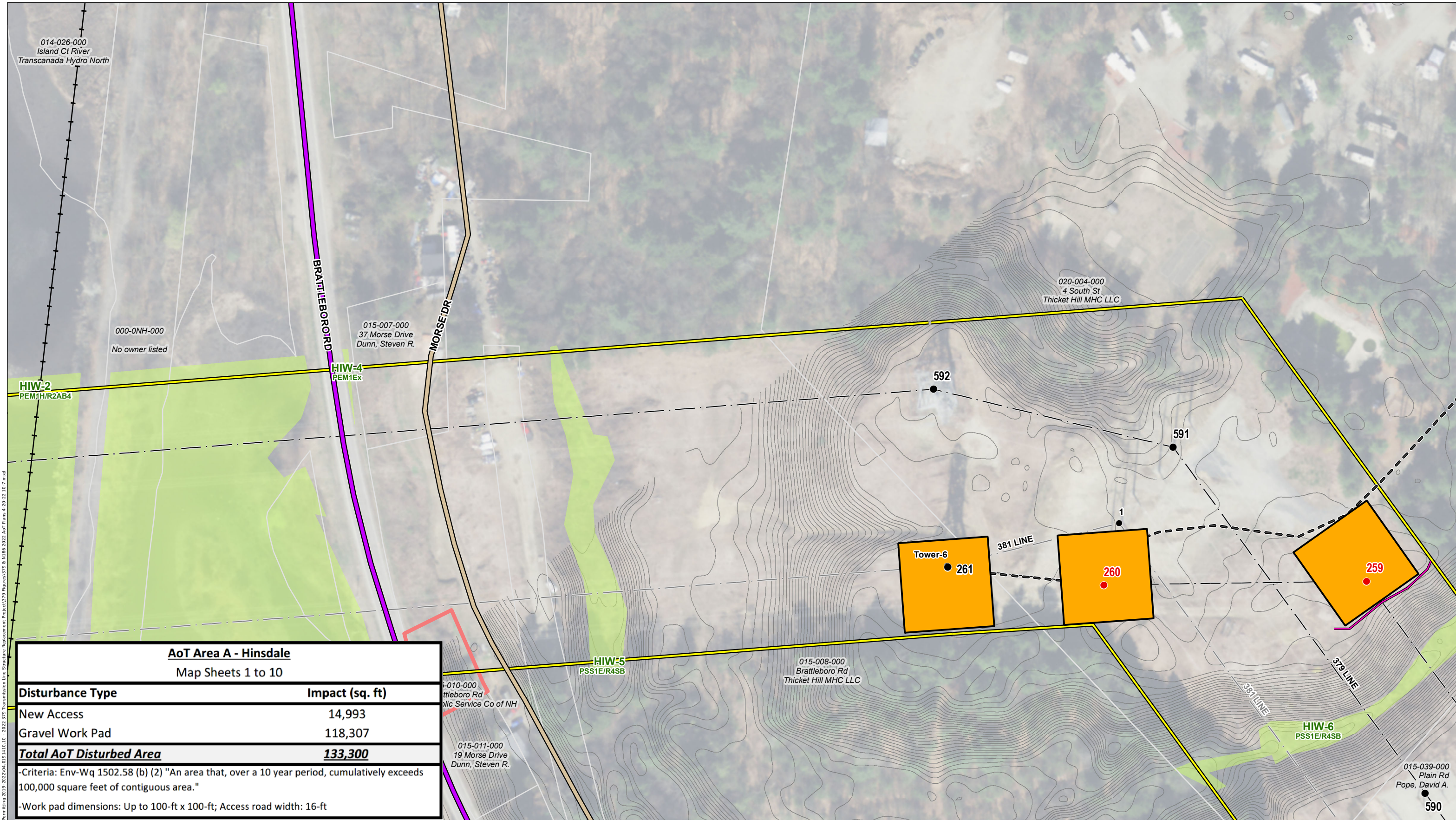
Title Sheet / Index Map
Map Sheets 1-38
Note Sheets 1-3

NO.	DATE	REVISIONS

PREPARED BY:



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



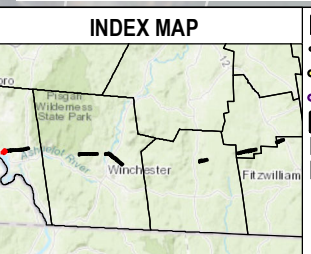
AoT Area A - Hinsdale
Map Sheets 1 to 10

Disturbance Type	Impact (sq. ft)
New Access	14,993
Gravel Work Pad	118,307
Total AoT Disturbed Area	133,300

-Criteria: Env-Wq 1502.58 (b) (2) "An area that, over a 10 year period, cumulatively exceeds 100,000 square feet of contiguous area."

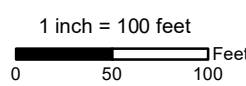
-Work pad dimensions: Up to 100-ft x 100-ft; Access road width: 16-ft

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- AO T DISTURBANCE AREA
- EXISTING ACCESS
- PROPOSED ACCESS
- OFF-ROW ACCESS PENDING RIGHTS
- WORKPAD
- TEMPORARY WETLAND IMPACT
- TEMPORARY UPLAND MATTING
- PUBLIC ROADS
- PRIVATE ROAD
- STATE ROAD
- EXISTING STRUCTURE - NO PROPOSED WORK
- EXISTING STRUCTURE TO BE REPLACED
- EXISTING TRANSMISSION LINE
- OTHER TRANSMISSION LINE
- APPROXIMATE ROW
- NHD FLOWLINES
- FIELD DELINEATED WETLAND
- PARCEL BOUNDARY
- EVERSOURCE OWNED PARCEL
- POTENTIAL VERNAL POOL
- TOWN BOUNDARY
- RAILROAD/RAIL TRAIL
- PARCEL BOUNDARY
- EVERSOURCE OWNED PARCEL
- STATE OWNED PARCEL
- EROSION CONTROL
- CULVERT
- 2 FT ELEVATION CONTOUR

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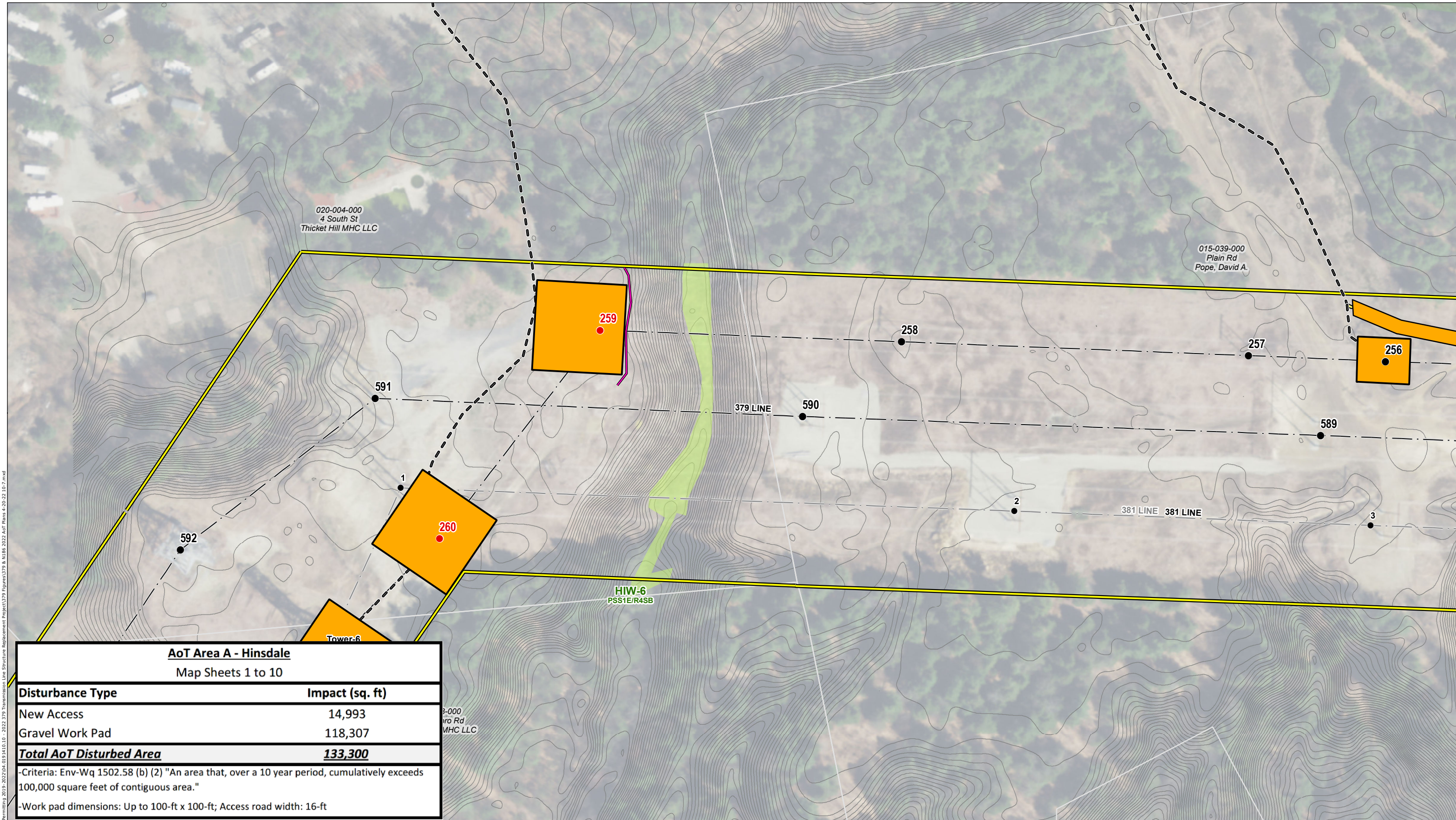
NO.	DATE	REVISIONS

EVSOURCE ENERGY

2022 379 & N186 Transmission Line Structure Replacement Project
Alteration of Terrain Permitting Plans

Hinsdale, NH	MAP SHEET
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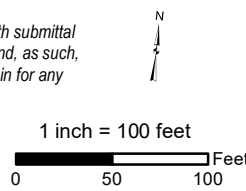


AoT Area A - Hinsdale	
Map Sheets 1 to 10	
Disturbance Type	Impact (sq. ft)
New Access	14,993
Gravel Work Pad	118,307
Total AoT Disturbed Area	133,300
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-Work pad dimensions: Up to 100-ft x 100-ft; Access road width: 16-ft	

INDEX MAP

AO T DISTURBANCE AREA	EXISTING STRUCTURE - NO PROPOSED WORK	TOWN BOUNDARY
EXISTING ACCESS	EXISTING STRUCTURE TO BE REPLACED	RAILROAD/RAIL TRAIL
PROPOSED ACCESS	EXISTING TRANSMISSION LINE	PARCEL BOUNDARY
OFF-ROW ACCESS PENDING RIGHTS	OTHER TRANSMISSION LINE	EVERSOURCE OWNED PARCEL
WORKPAD	APPROXIMATE ROW	STATE OWNED PARCEL
TEMPORARY WETLAND IMPACT	NHD FLOWLINES	EROSION CONTROL
TEMPORARY UPLAND MATTING	FIELD DELINEATED WETLAND	CULVERT
PUBLIC ROADS	PARCEL BOUNDARY	2 FT ELEVATION CONTOUR
PRIVATE ROAD	EVERSOURCE OWNED PARCEL	
STATE ROAD	POTENTIAL VERNAL POOL	

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NO.	DATE	REVISIONS

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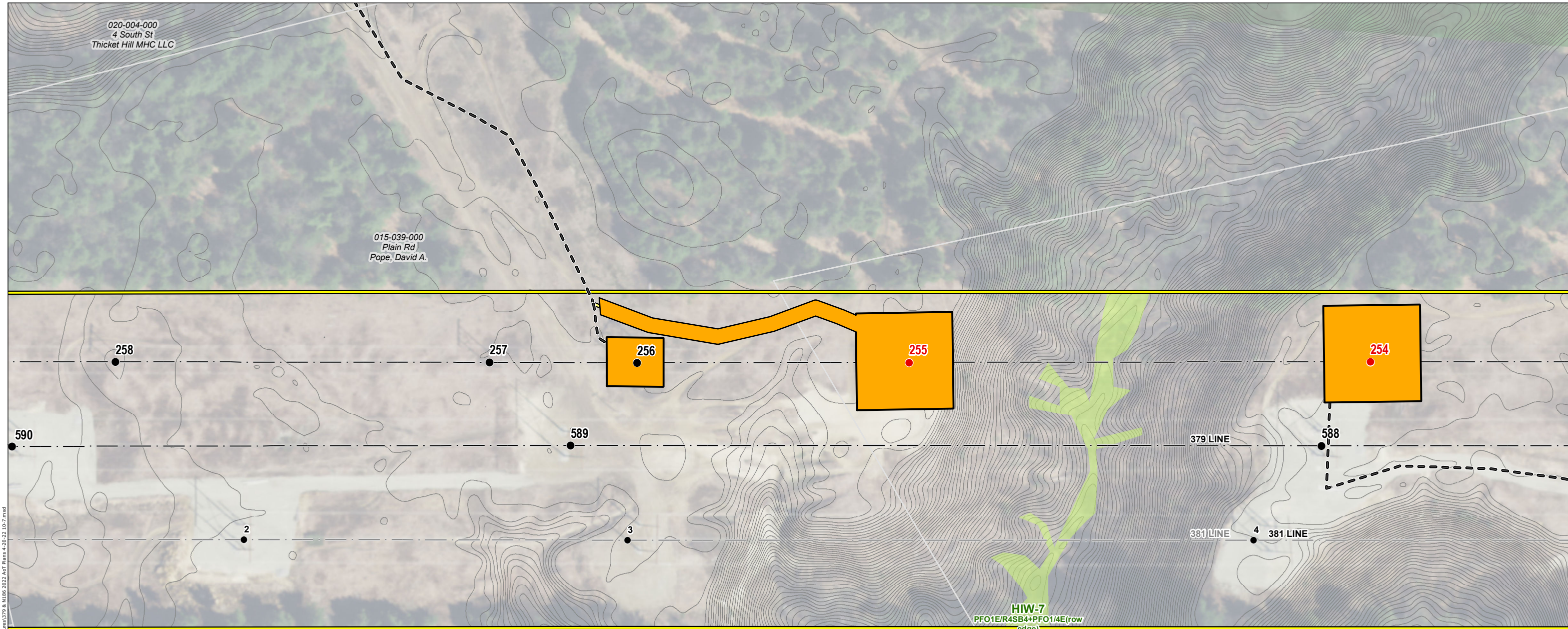
**2022 379 & N186 Transmission Line Structure Replacement Project
Alteration of Terrain Permitting Plans**

Hinsdale, NH	MAP SHEET
Date: May, 2022	2 OF 38
04.0191410.10	

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Thicket Hill MHC LLC

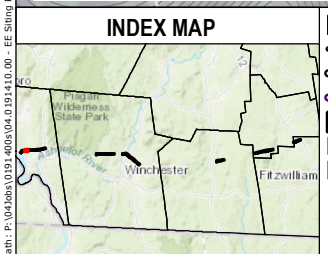
015-039-000
Plain Rd
Pope, David A.

015-033-000
15 Freedom Acres Dr
Warren, Bernard L Trust



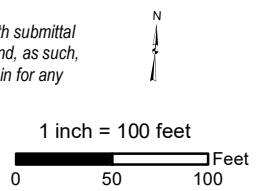
AoT Area A - Hinsdale
Map Sheets 1 to 10

Disturbance Type	Impact (sq. ft)
New Access	14,993
Gravel Work Pad	118,307
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NO.	DATE	REVISIONS

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2022 379 & N186 Transmission Line Structure Replacement Project Alteration of Terrain Permitting Plans

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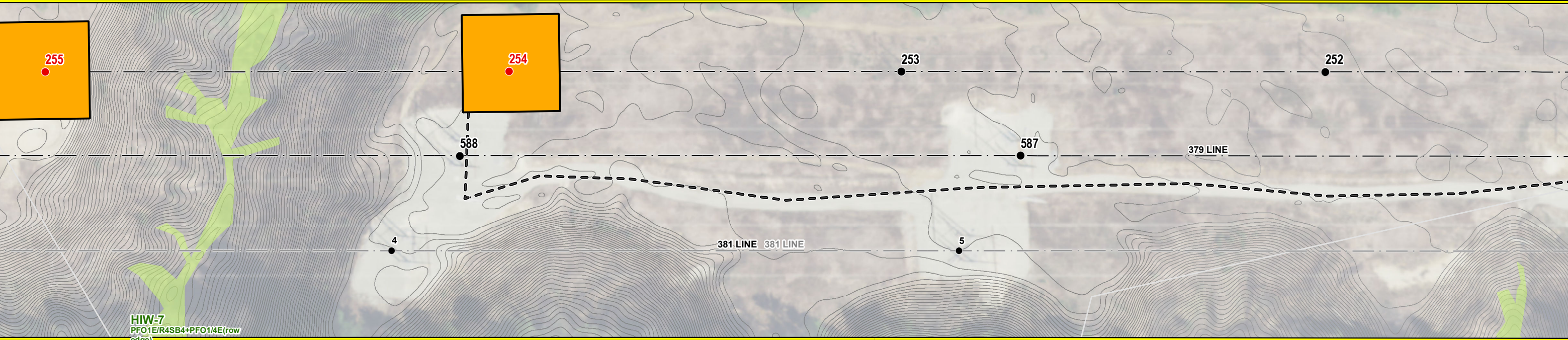
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Pope, David A.

015-033-000
15 Freedom Acres Dr
Warren, Bernard L Trust

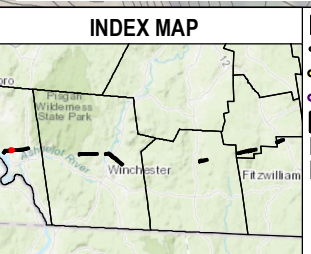
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Plain Rd
Ray, Allan F.

HIW-7
PFO1E/R4SB4+PFO14E(row
edge)

HIW-8
PSS1E/R4SB4

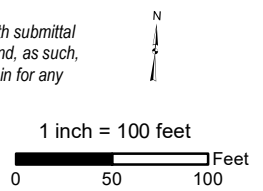


AoT Area A - Hinsdale	
Map Sheets 1 to 10	
Disturbance Type	Impact (sq. ft)
New Access	14,993
Gravel Work Pad	118,307
Total AoT Disturbed Area	133,300
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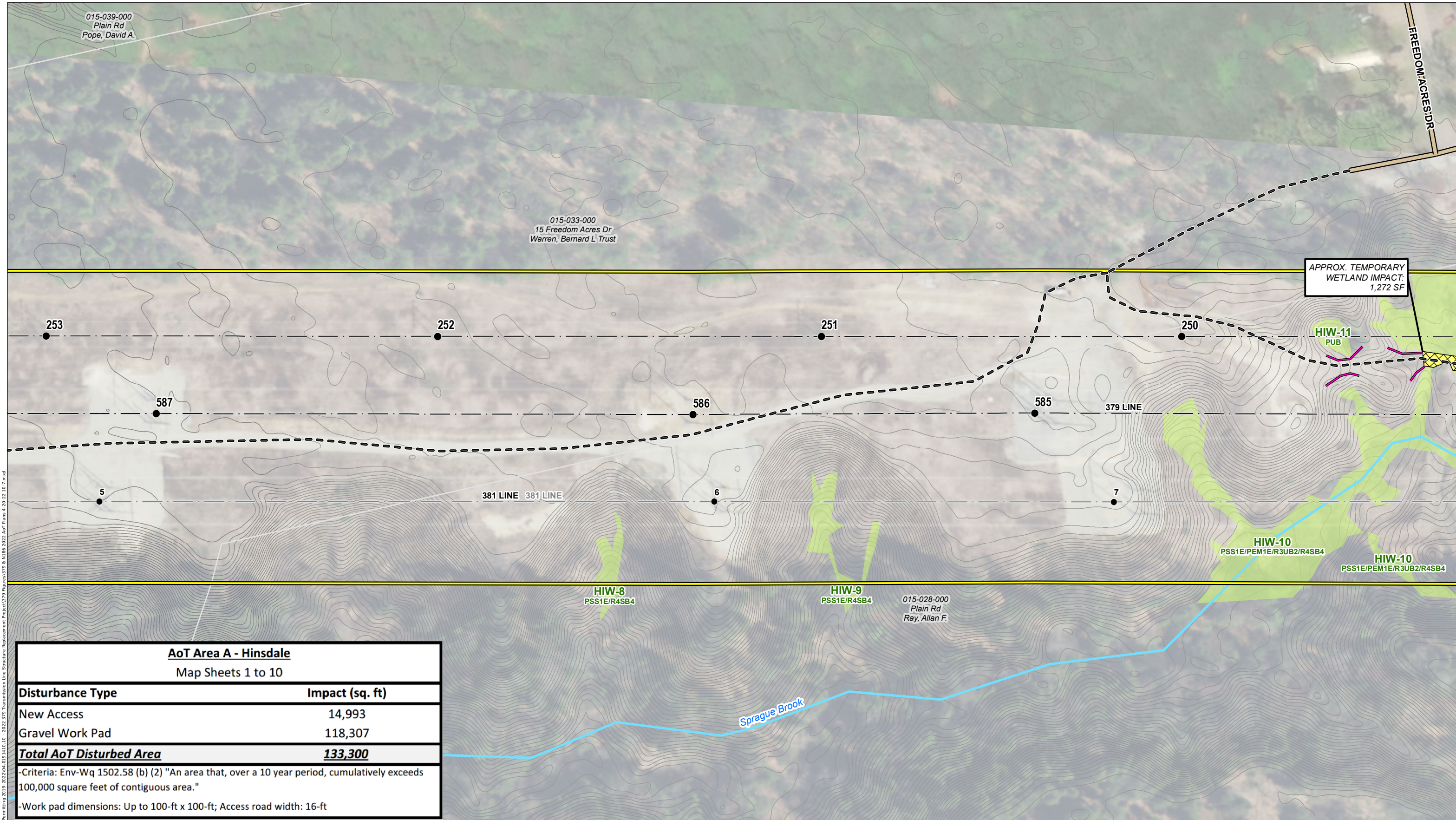
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EVERSOURCE ENERGY

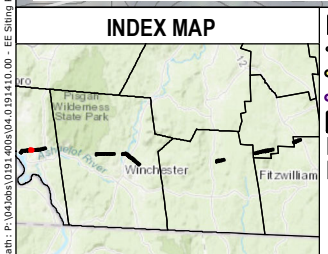
2022 379 & N186 Transmission Line Structure Replacement Project
Alteration of Terrain Permitting Plans

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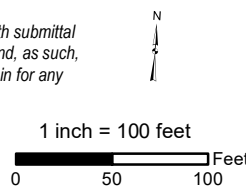


AoT Area A - Hinsdale	
Map Sheets 1 to 10	
Disturbance Type	Impact (sq. ft)
New Access	14,993
Gravel Work Pad	118,307
Total AoT Disturbed Area	133,300
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- | | | |
|---|---|--|
| <ul style="list-style-type: none"> AOT DISTURBANCE AREA EXISTING ACCESS PROPOSED ACCESS OFF-ROW ACCESS PENDING RIGHTS WORKPAD TEMPORARY WETLAND IMPACT TEMPORARY UPLAND MATTING PUBLIC ROADS PRIVATE ROAD STATE ROAD | <ul style="list-style-type: none"> EXISTING STRUCTURE - NO PROPOSED WORK EXISTING STRUCTURE TO BE REPLACED EXISTING TRANSMISSION LINE OTHER TRANSMISSION LINE APPROXIMATE ROW NHD FLOWLINES FIELD DELINEATED WETLAND PARCEL BOUNDARY EVERSOURCE OWNED PARCEL POTENTIAL VERNAL POOL | <ul style="list-style-type: none"> TOWN BOUNDARY RAILROAD/RAIL TRAIL PARCEL BOUNDARY EVERSOURCE OWNED PARCEL STATE OWNED PARCEL EROSION CONTROL CULVERT 2 FT ELEVATION CONTOUR |
|---|---|--|

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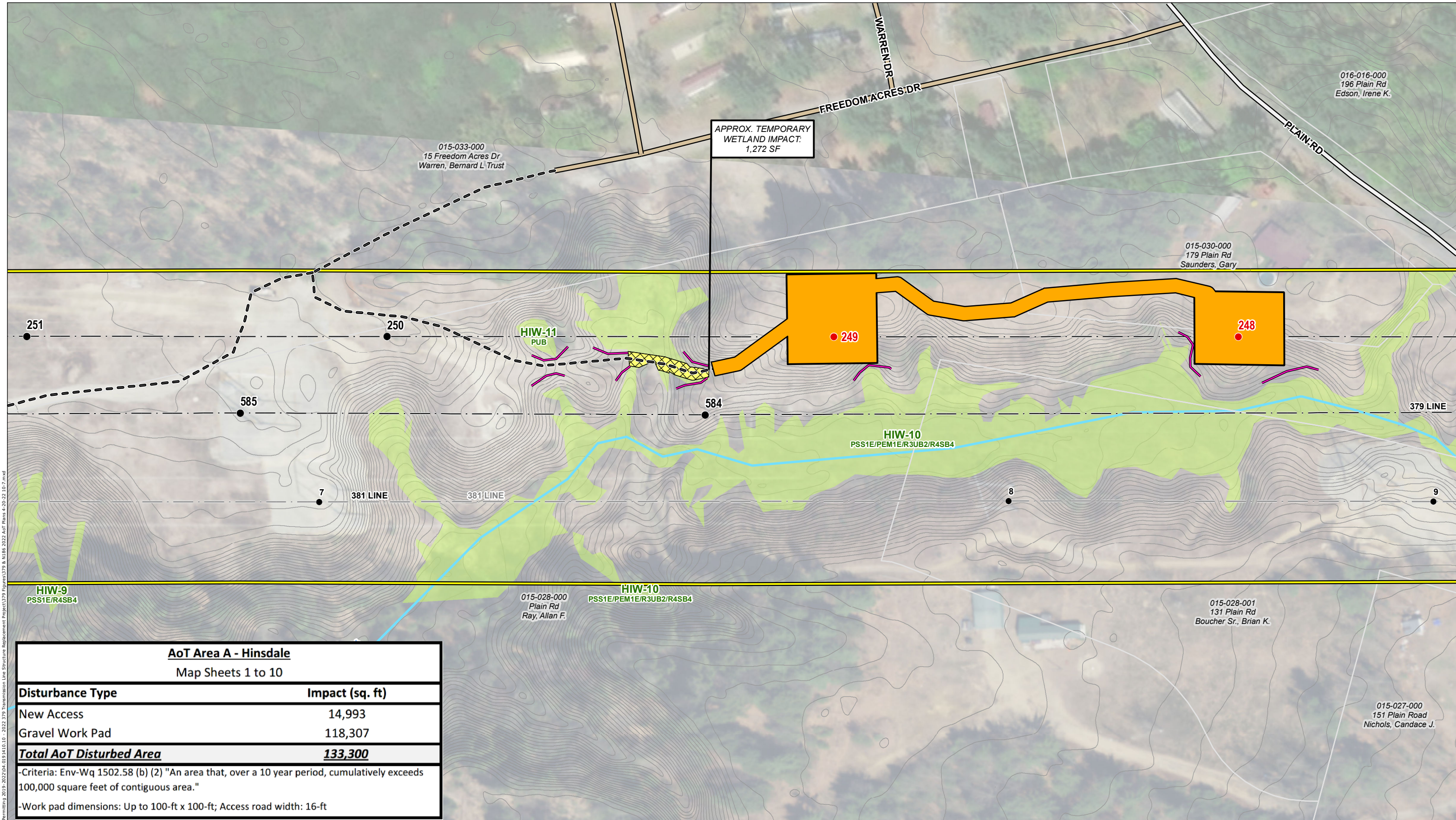
NO.	DATE	REVISIONS

EVSOURCE ENERGY

2022 379 & N186 Transmission Line Structure Replacement Project Alteration of Terrain Permitting Plans

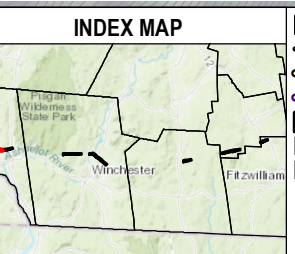
Hinsdale, NH	MAP SHEET
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AoT Area A - Hinsdale	
Map Sheets 1 to 10	
Disturbance Type	Impact (sq. ft)
New Access	14,993
Gravel Work Pad	118,307
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- EVERSOURCE OWNED PARCEL
- POTENTIAL VERNAL POOL
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- RAILROAD/RAIL TRAIL
- PARCEL BOUNDARY
- EVERSOURCE OWNED PARCEL
- STATE OWNED PARCEL
- EROSION CONTROL
- CULVERT
- 2 FT ELEVATION CONTOUR

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 = 100 feet

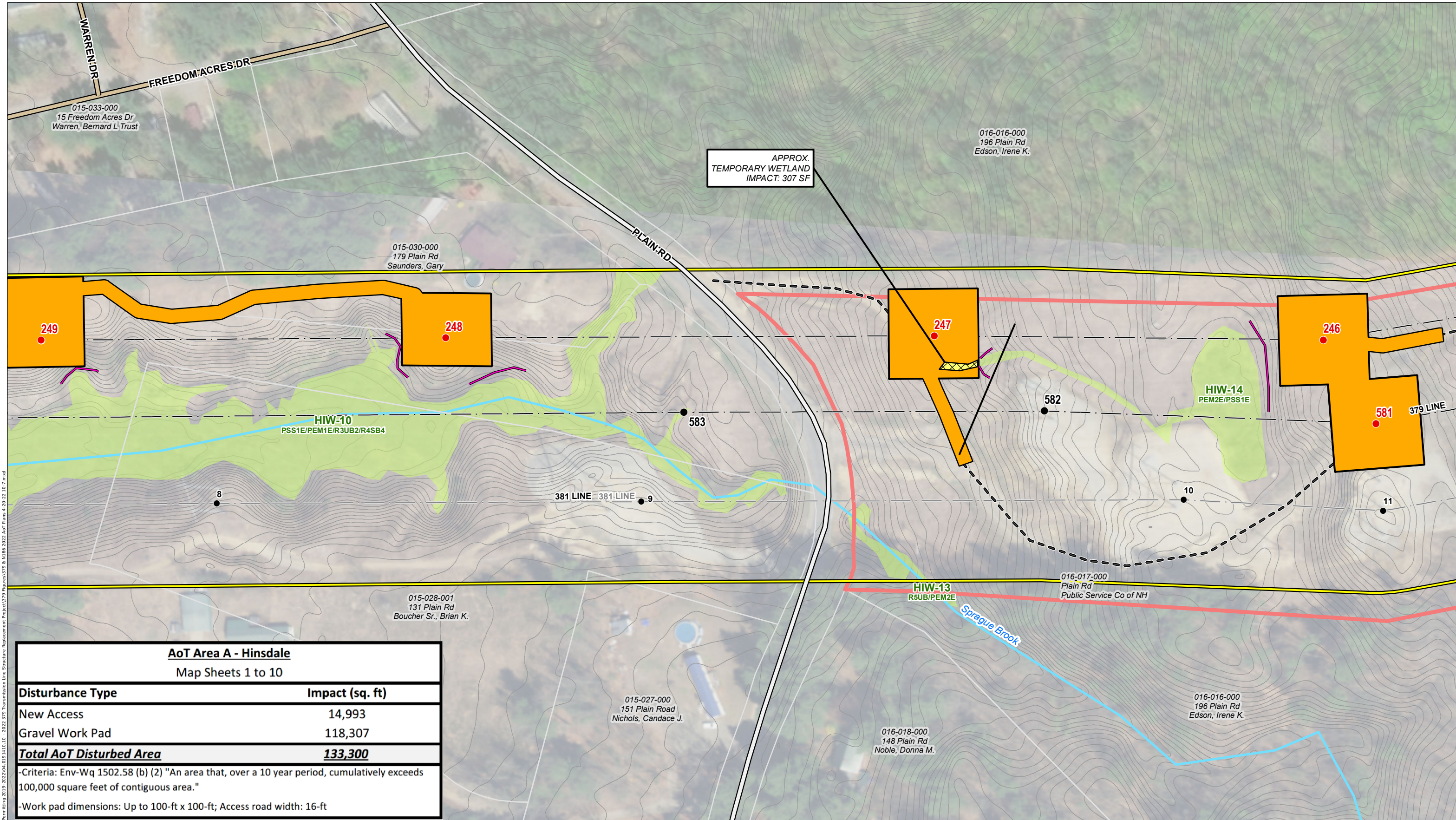
0 50 100 Feet

NO.	DATE	REVISIONS

EVERSOURCE ENERGY

2022 379 & N186 Transmission Line Structure Replacement Project
Alteration of Terrain Permitting Plans

Hinsdale, NH	MAP SHEET
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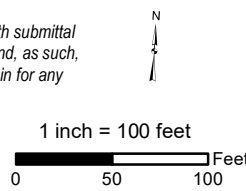
APPROX.
TEMPORARY WETLAND
IMPACT: 307 SF

AoT Area A - Hinsdale	
Map Sheets 1 to 10	
Disturbance Type	Impact (sq. ft)
New Access	14,993
Gravel Work Pad	118,307
Total AoT Disturbed Area	133,300
-Criteria: Env-Wq 1502.58 (b) (2) "An area that, over a 10 year period, cumulatively exceeds 100,000 square feet of contiguous area."	
-Work pad dimensions: Up to 100-ft x 100-ft; Access road width: 16-ft	

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INDEX MAP 	<ul style="list-style-type: none"> AOT DISTURBANCE AREA EXISTING ACCESS PROPOSED ACCESS OFF-ROW ACCESS PENDING RIGHTS WORKPAD TEMPORARY WETLAND IMPACT TEMPORARY UPLAND MATTING PUBLIC ROADS PRIVATE ROAD STATE ROAD 	<ul style="list-style-type: none"> EXISTING STRUCTURE - NO PROPOSED WORK EXISTING STRUCTURE TO BE REPLACED EXISTING TRANSMISSION LINE OTHER TRANSMISSION LINE APPROXIMATE ROW NHD FLOWLINES FIELD DELINEATED WETLAND PARCEL BOUNDARY EVERSOURCE OWNED PARCEL POTENTIAL VERNAL POOL 	<ul style="list-style-type: none"> TOWN BOUNDARY RAILROAD/RAIL TRAIL PARCEL BOUNDARY EVERSOURCE OWNED PARCEL STATE OWNED PARCEL EROSION CONTROL CULVERT 2 FT ELEVATION CONTOUR
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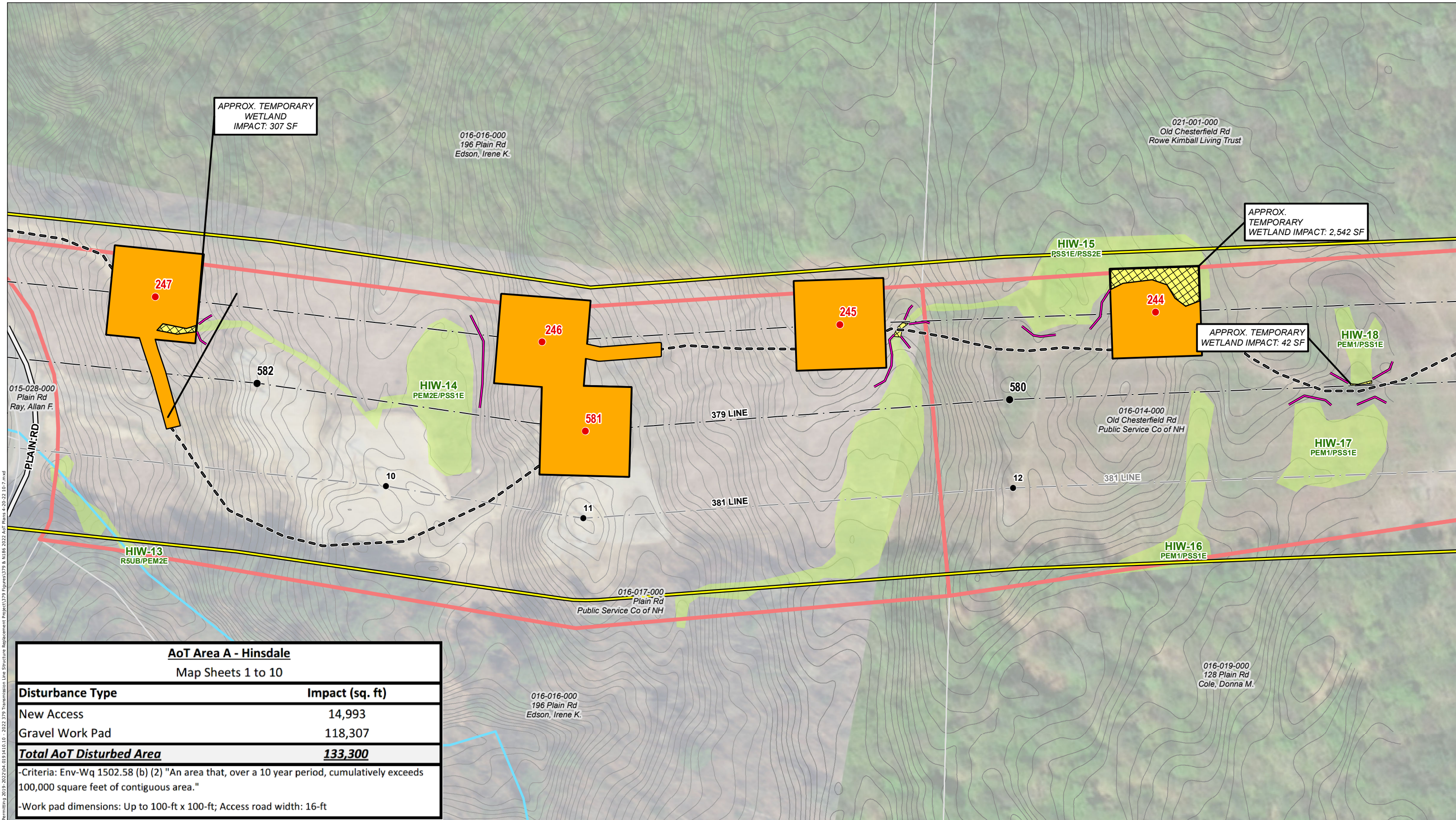


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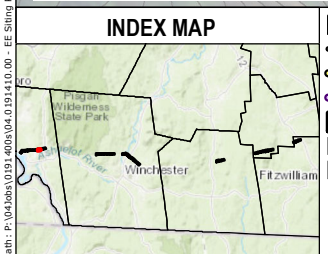
EVSOURCE ENERGY

2022 379 & N186 Transmission Line Structure Replacement Project
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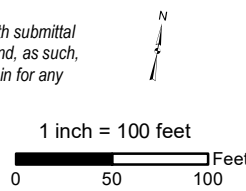


AoT Area A - Hinsdale	
Map Sheets 1 to 10	
Disturbance Type	Impact (sq. ft)
New Access	14,993
Gravel Work Pad	118,307
Total AoT Disturbed Area	133,300
-Criteria: Env-Wq 1502.58 (b) (2) "An area that, over a 10 year period, cumulatively exceeds 100,000 square feet of contiguous area."	
-Work pad dimensions: Up to 100-ft x 100-ft; Access road width: 16-ft	



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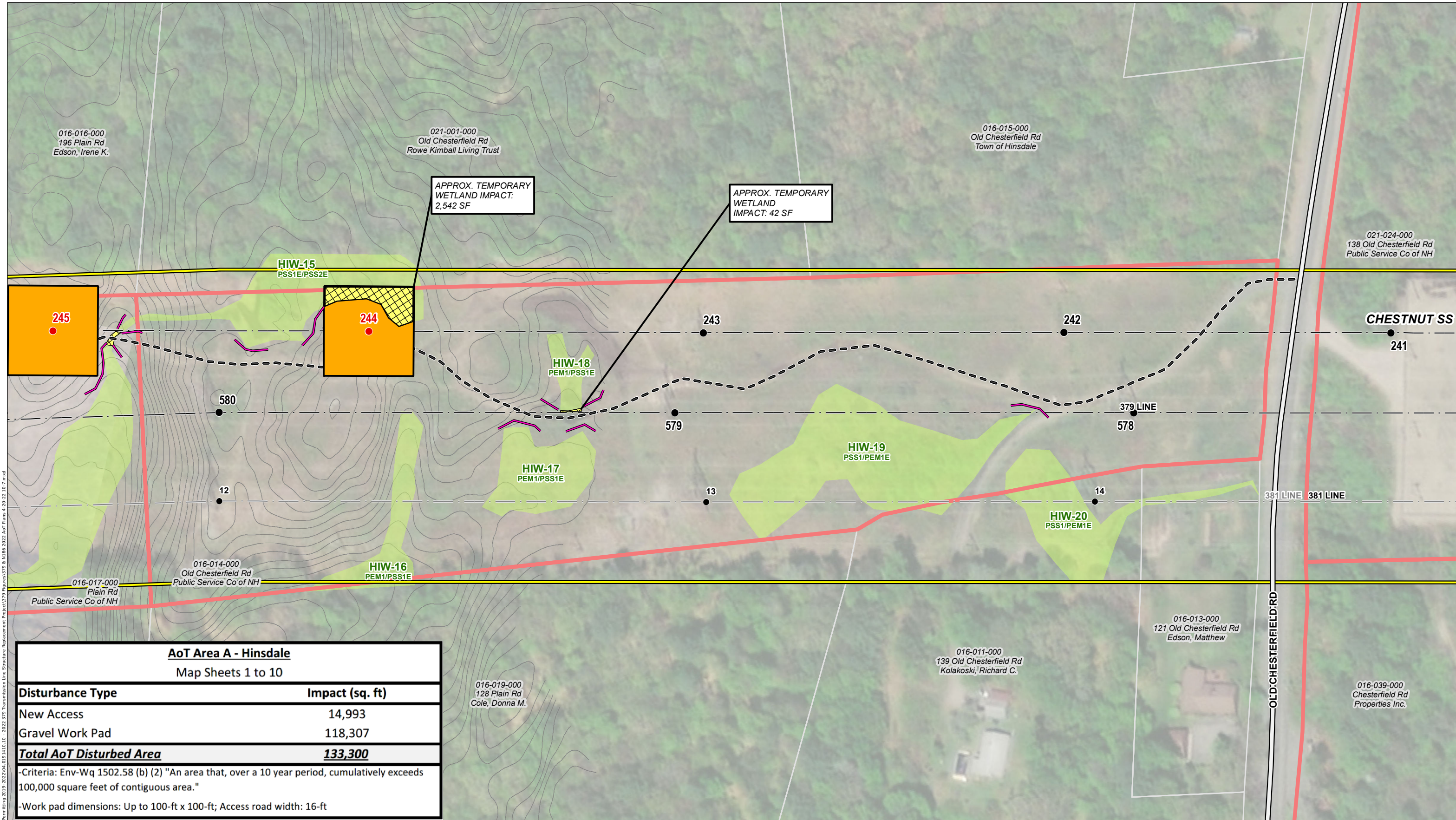
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EVSOURCE ENERGY

2022 379 & N186 Transmission Line Structure Replacement Project Alteration of Terrain Permitting Plans

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AoT Area A - Hinsdale	
Map Sheets 1 to 10	
Disturbance Type	Impact (sq. ft)
New Access	14,993
Gravel Work Pad	118,307
Total AoT Disturbed Area	133,300
-Criteria: Env-Wq 1502.58 (b) (2) "An area that, over a 10 year period, cumulatively exceeds 100,000 square feet of contiguous area."	
-Work pad dimensions: Up to 100-ft x 100-ft; Access road width: 16-ft	

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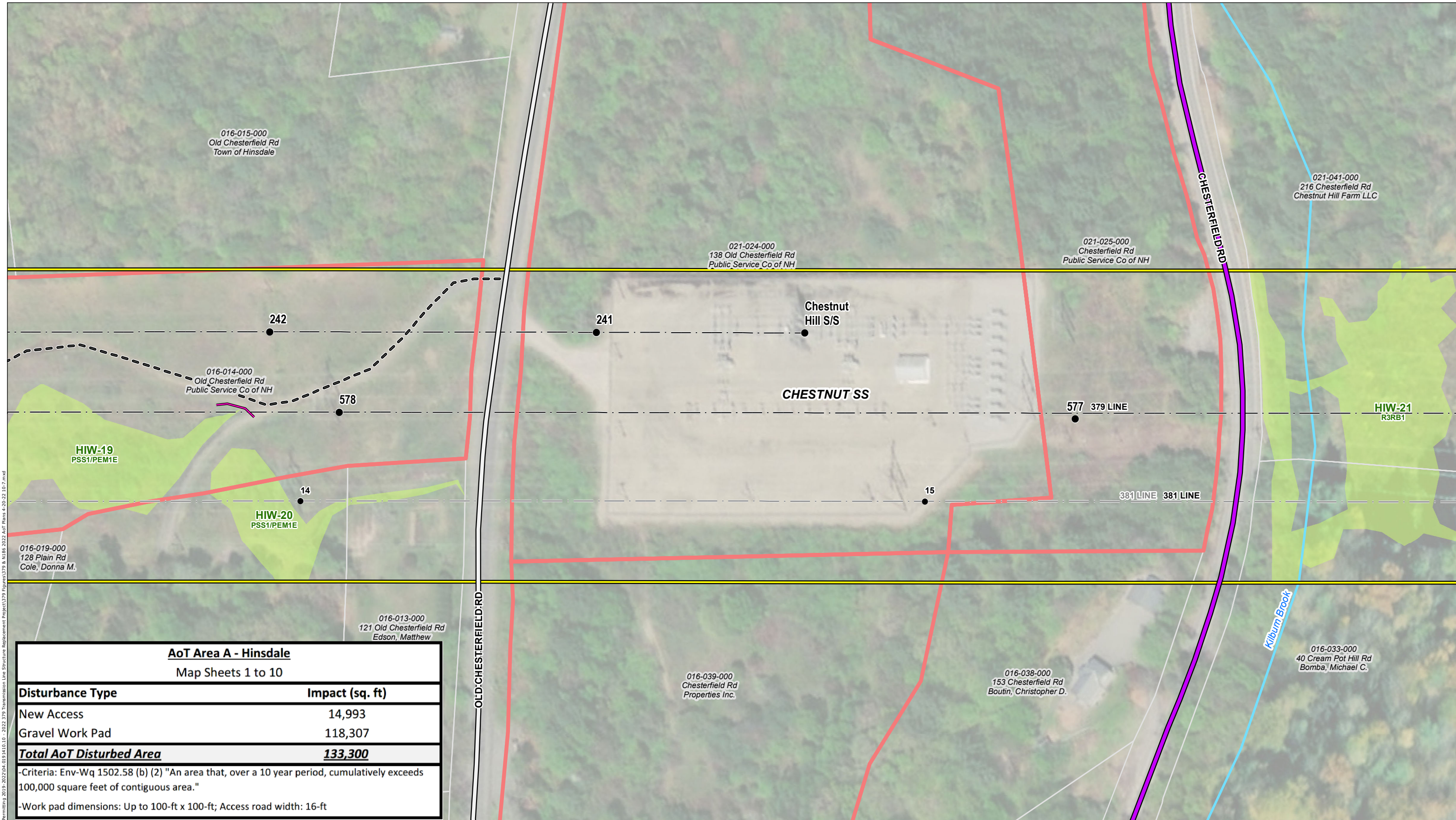
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2022 379 & N186 Transmission Line Structure Replacement Project Alteration of Terrain Permitting Plans

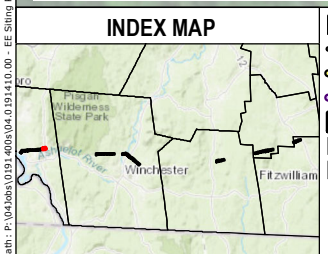
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AoT Area A - Hinsdale	
Map Sheets 1 to 10	
Disturbance Type	Impact (sq. ft)
New Access	14,993
Gravel Work Pad	118,307
Total AoT Disturbed Area	133,300
-Criteria: Env-Wq 1502.58 (b) (2) "An area that, over a 10 year period, cumulatively exceeds 100,000 square feet of contiguous area."	
-Work pad dimensions: Up to 100-ft x 100-ft; Access road width: 16-ft	



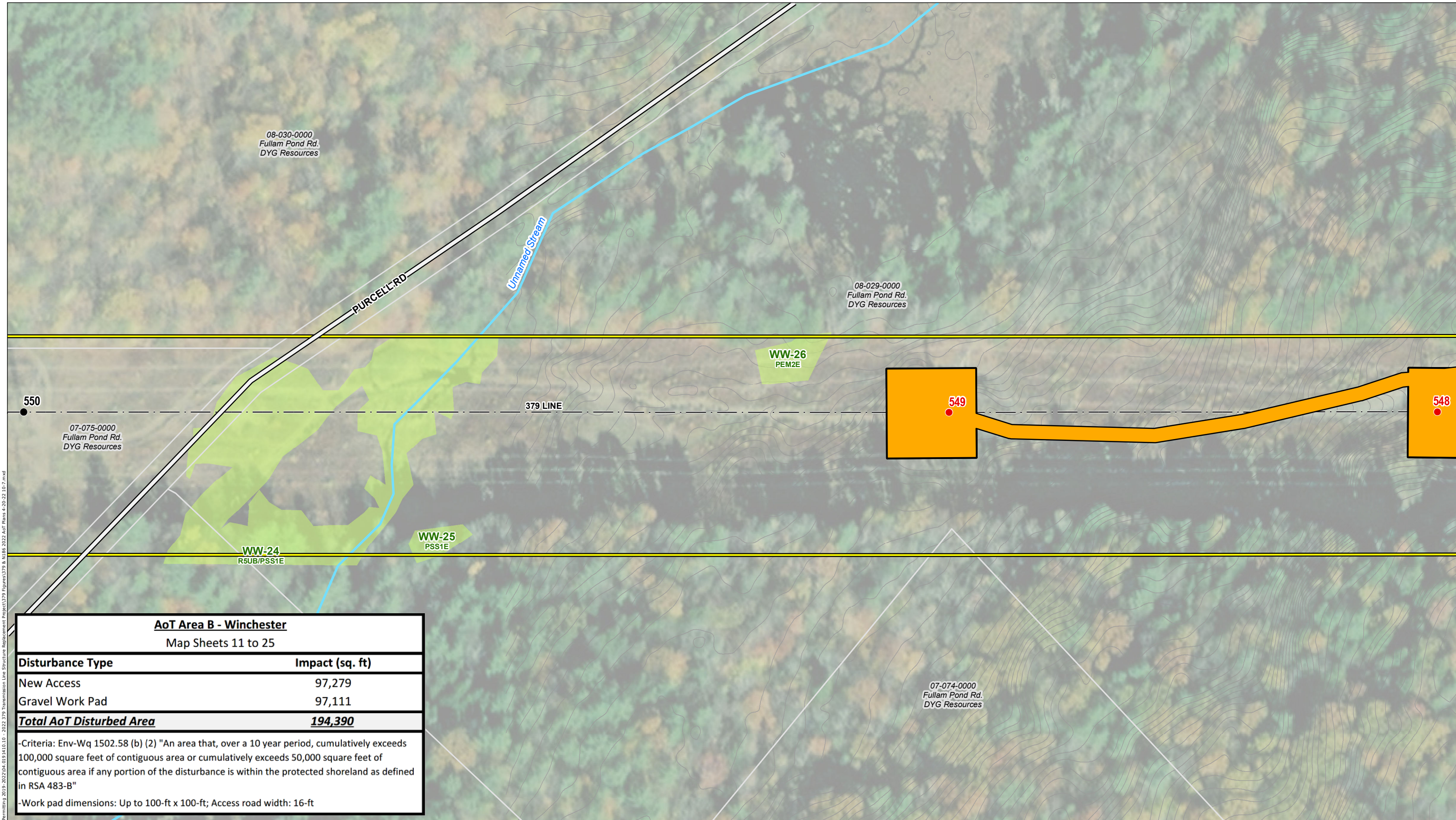
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EVSOURCE ENERGY			
2022 379 & N186 Transmission Line Structure Replacement Project			
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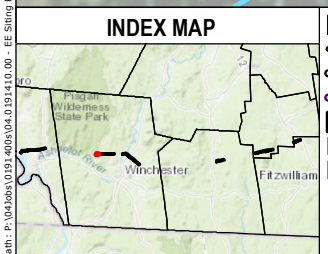
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AoT Area B - Winchester
Map Sheets 11 to 25

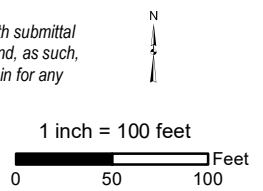
Disturbance Type	Impact (sq. ft)
New Access	97,279
Gravel Work Pad	97,111
Total AoT Disturbed Area	194,390

-Criteria: Env-Wq 1502.58 (b) (2) "An area that, over a 10 year period, cumulatively exceeds 100,000 square feet of contiguous area or cumulatively exceeds 50,000 square feet of contiguous area if any portion of the disturbance is within the protected shoreland as defined in RSA 483-B"
-Work pad dimensions: Up to 100-ft x 100-ft; Access road width: 16-ft



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EVSOURCE ENERGY

2022 379 & N186 Transmission Line Structure Replacement Project
Alteration of Terrain Permitting Plans

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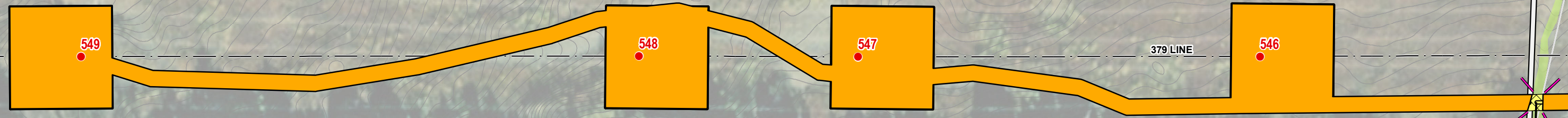
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Unnamed Stream

WW-26
PEM2E

08-029-0000
Fullam Pond Rd.
DYG Resources

FULMAN POND RD



WW-27
RSUB

APPROX. TEMPORARY
WETLAND
IMPACT: 203 SF

08-028-0000
Fullam Pond Rd.
DYG Resources

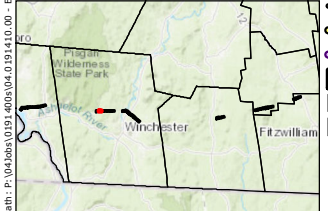
AoT Area B - Winchester
Map Sheets 11 to 25

Disturbance Type	Impact (sq. ft)
New Access	97,279
Gravel Work Pad	97,111
Total AoT Disturbed Area	194,390

-Criteria: Env-Wq 1502.58 (b) (2) "An area that, over a 10 year period, cumulatively exceeds 100,000 square feet of contiguous area or cumulatively exceeds 50,000 square feet of contiguous area if any portion of the disturbance is within the protected shoreland as defined in RSA 483-B"

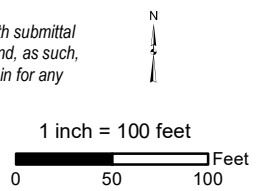
-Work pad dimensions: Up to 100-ft x 100-ft; Access road width: 16-ft

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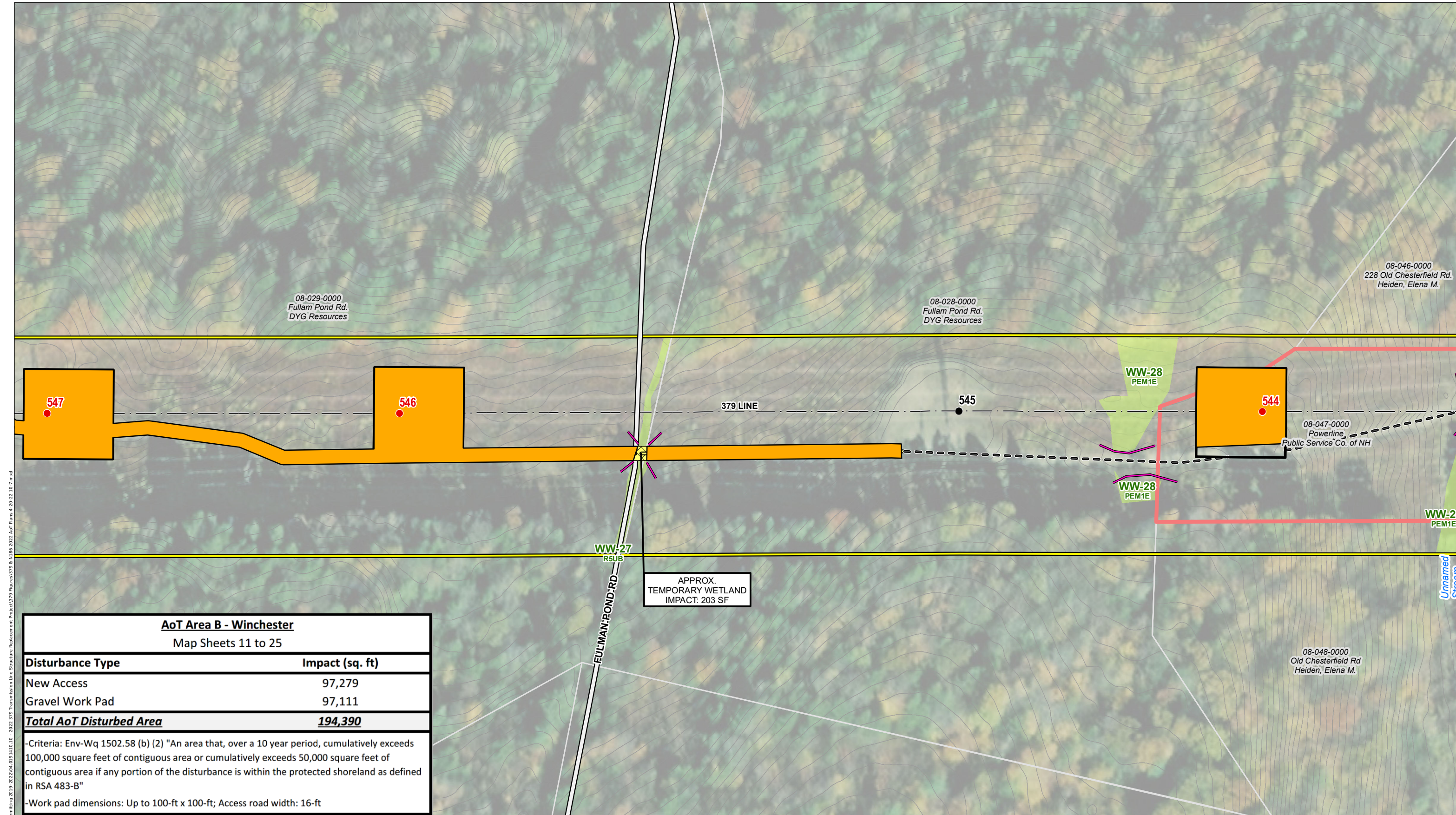
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2022 379 & N186 Transmission Line Structure Replacement Project Alteration of Terrain Permitting Plans

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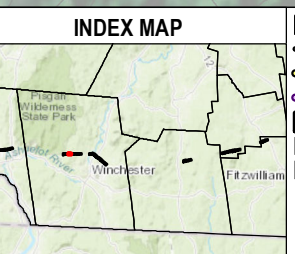
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AoT Area B - Winchester	
Map Sheets 11 to 25	
Disturbance Type	Impact (sq. ft)
New Access	97,279
Gravel Work Pad	97,111
Total AoT Disturbed Area	194,390

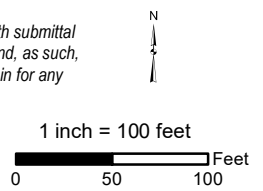
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-Work pad dimensions: Up to 100-ft x 100-ft; Access road width: 16-ft



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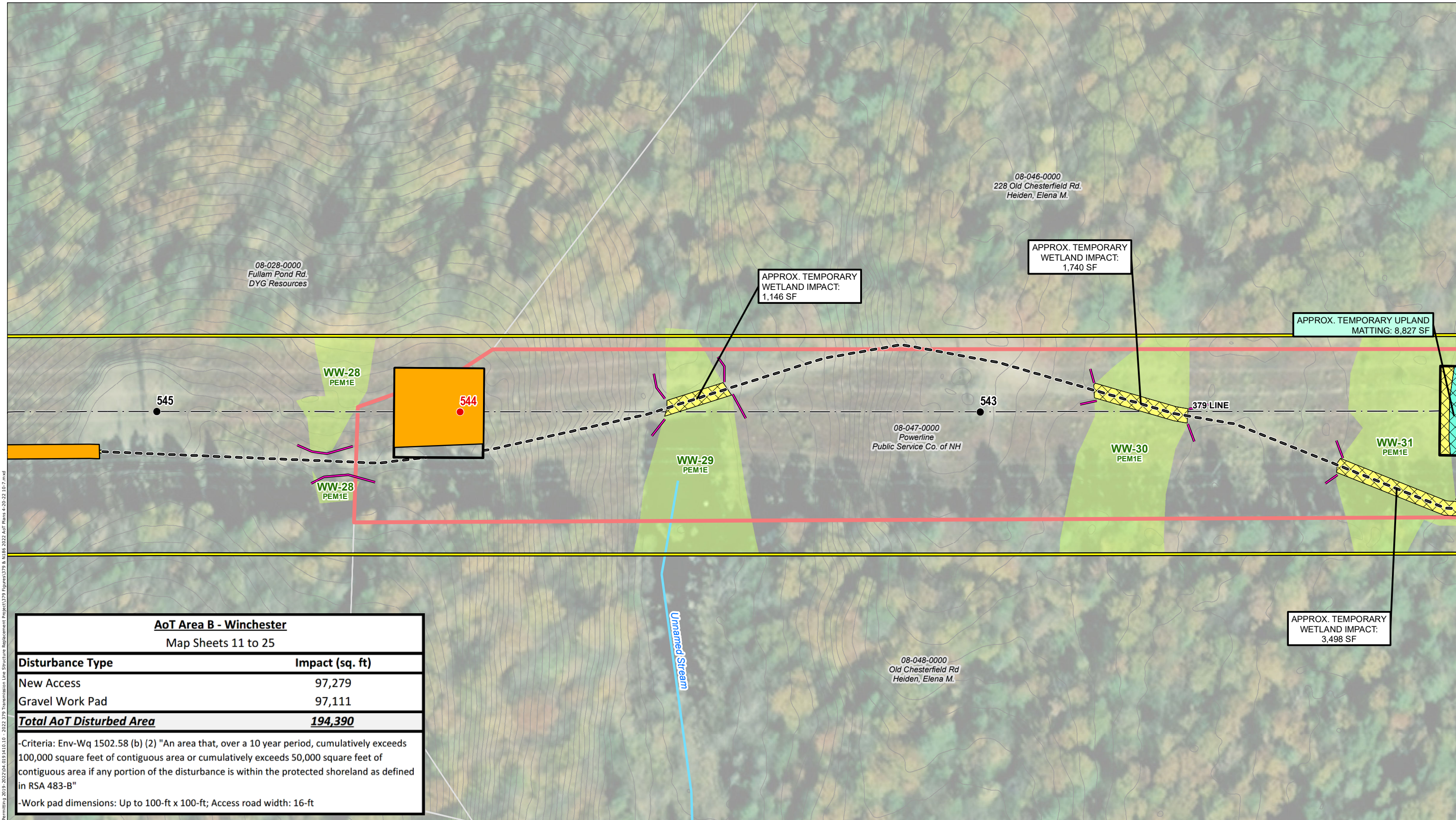


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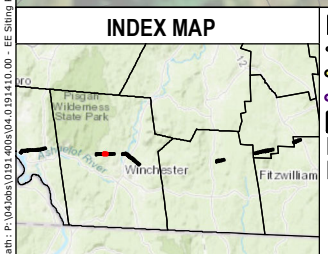
EVSOURCE ENERGY

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AoT Area B - Winchester	
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Disturbance Type	Impact (sq. ft)
New Access	97,279
Gravel Work Pad	97,111
Total AoT Disturbed Area	194,390
-Criteria: Env-Wq 1502.58 (b) (2) "An area that, over a 10 year period, cumulatively exceeds 100,000 square feet of contiguous area or cumulatively exceeds 50,000 square feet of contiguous area if any portion of the disturbance is within the protected shoreland as defined in RSA 483-B"	
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1 inch = 100 feet

0 50 100 Feet

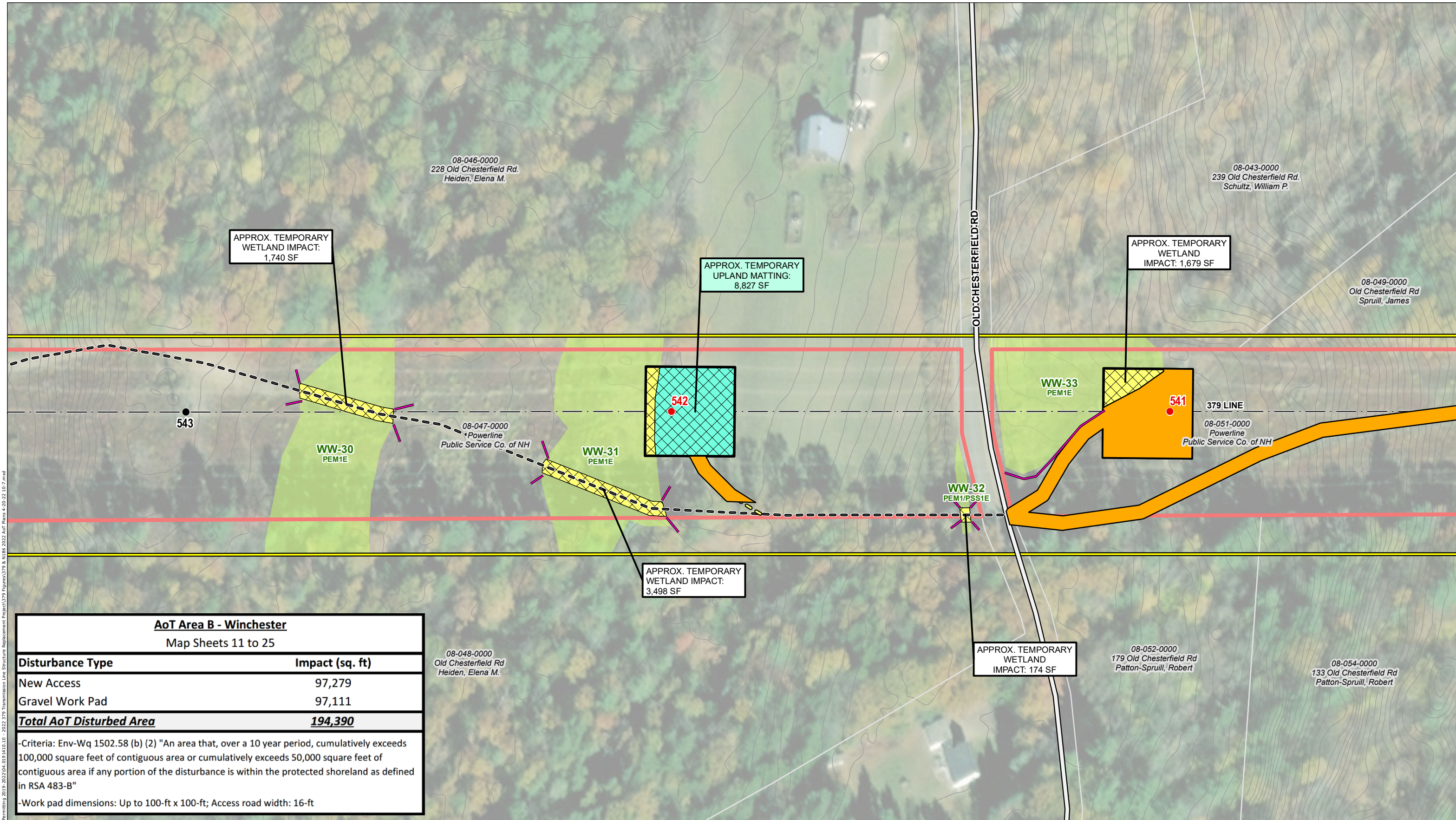
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2022 379 & N186 Transmission Line Structure Replacement Project Alteration of Terrain Permitting Plans

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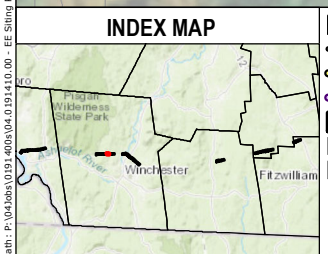


AoT Area B - Winchester
Map Sheets 11 to 25

Disturbance Type	Impact (sq. ft)
New Access	97,279
Gravel Work Pad	97,111
Total AoT Disturbed Area	194,390

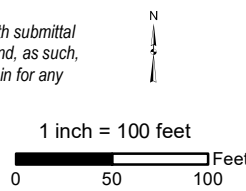
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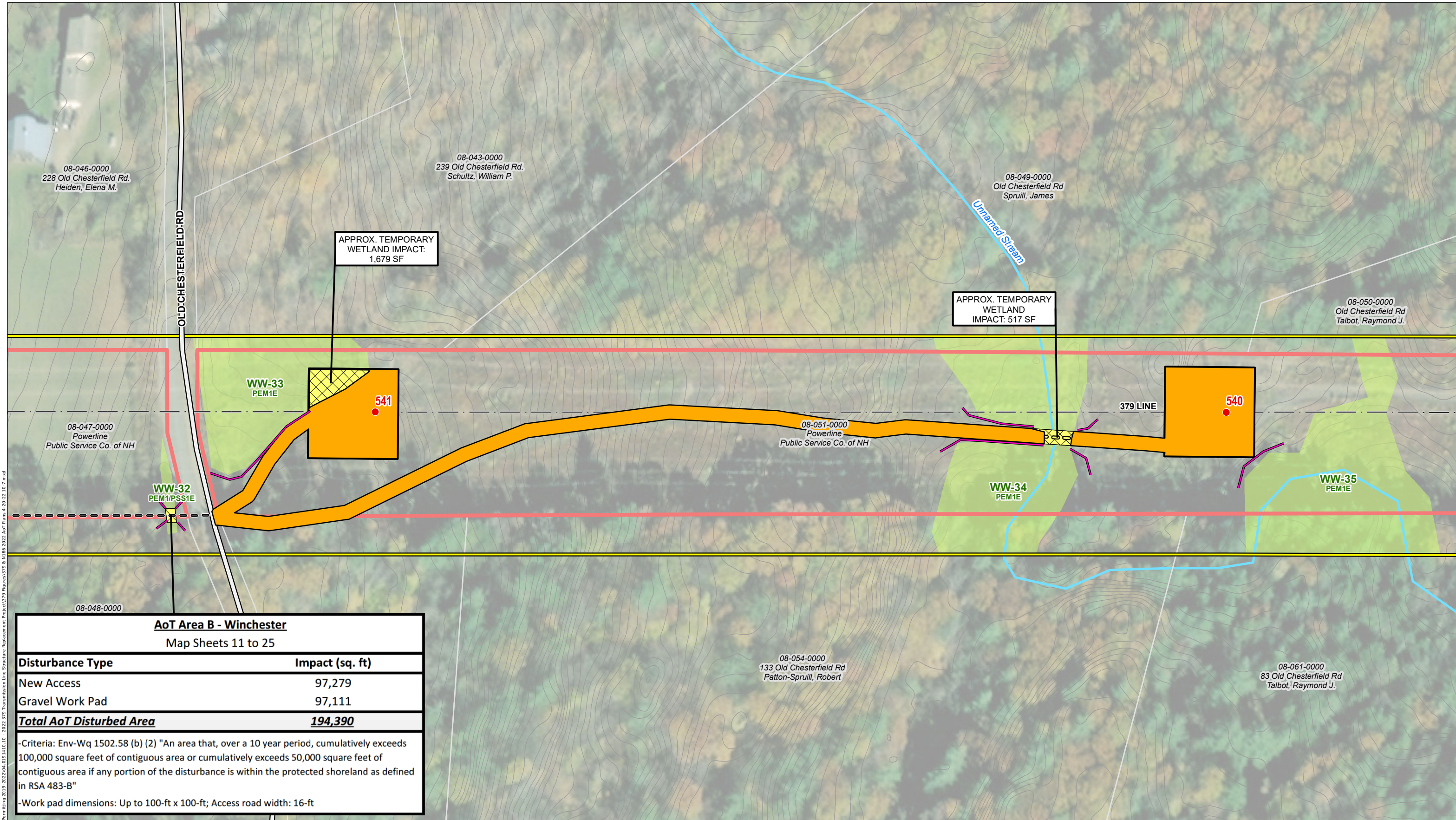
NO.	DATE	REVISIONS

EVSOURCE ENERGY

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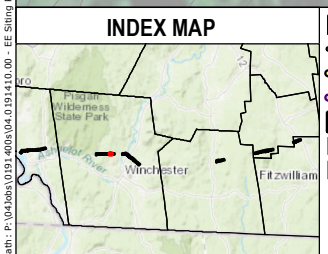
APPROX. TEMPORARY WETLAND IMPACT: 1,679 SF

APPROX. TEMPORARY WETLAND IMPACT: 517 SF

AoT Area B - Winchester	
Map Sheets 11 to 25	
Disturbance Type	Impact (sq. ft)
New Access	97,279
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Total AoT Disturbed Area	194,390

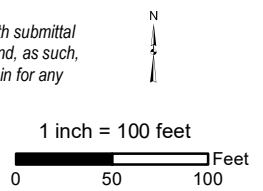
-Criteria: Env-Wq 1502.58 (b) (2) "An area that, over a 10 year period, cumulatively exceeds 100,000 square feet of contiguous area or cumulatively exceeds 50,000 square feet of contiguous area if any portion of the disturbance is within the protected shoreland as defined in RSA 483-B"

-Work pad dimensions: Up to 100-ft x 100-ft; Access road width: 16-ft



- AOT DISTURBANCE AREA
- EXISTING ACCESS
- PROPOSED ACCESS
- OFF-ROW ACCESS PENDING RIGHTS
- WORKPAD
- TEMPORARY WETLAND IMPACT
- TEMPORARY UPLAND MATTING
- PUBLIC ROADS
- PRIVATE ROAD
- STATE ROAD
- EXISTING STRUCTURE - NO PROPOSED WORK
- EXISTING STRUCTURE TO BE REPLACED
- EXISTING TRANSMISSION LINE
- OTHER TRANSMISSION LINE
- APPROXIMATE ROW
- NHD FLOWLINES
- FIELD DELINEATED WETLAND
- PARCEL BOUNDARY
- EVERSOURCE OWNED PARCEL
- POTENTIAL VERNAL POOL
- TOWN BOUNDARY
- RAILROAD/RAIL TRAIL
- PARCEL BOUNDARY
- EVERSOURCE OWNED PARCEL
- OTHER TRANSMISSION LINE
- STATE OWNED PARCEL
- EROSION CONTROL
- CULVERT
- 2 FT ELEVATION CONTOUR

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NO.	DATE	REVISIONS

EVSOURCE ENERGY

2022 379 & N186 Transmission Line Structure Replacement Project
Alteration of Terrain Permitting Plans

Winchester, NH	MAP SHEET
Date: May, 2022	16 OF 38
04.0191410.10	

Path: P:\Jobs\0191410\0191410_00 - EE Staging Permitting\2019-2022\04_09_1410_10 - 2022_379 Transmission Line Structure Replacement Project\379 Figures\379 & N186_2022 AoT Plans 4-20-22_10-7.mxd

08-043-0000
239 Old Chesterfield Rd.
Schultz, William P.

08-049-0000
Old Chesterfield Rd
Spruill, James

08-050-0000
Old Chesterfield Rd
Talbot, Raymond J.

08-079-0000
96 Old Spofford Rd.
Wiley, Mary L.

08-051-0000
Powerline
Public Service Co. of NH

538

537

379 LINE

WW-34
PEM1E

WW-35
PEM1E

WW-36
PEM1/PSS1E/R4SB

APPROX. TEMPORARY
WETLAND
IMPACT: 517 SF

Unnamed Stream

08-061-0000
83 Old Chesterfield Rd
Talbot, Raymond J.

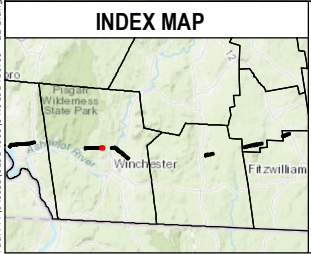
08-078-0001
Old Spofford Rd.
Reese, Lauren S.

AoT Area B - Winchester
Map Sheets 11 to 25

Disturbance Type	Impact (sq. ft)
New Access	97,279
Gravel Work Pad	97,111
Total AoT Disturbed Area	194,390

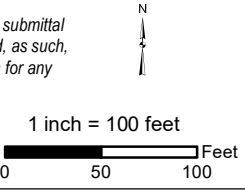
-Criteria: Env-Wq 1502.58 (b) (2) "An area that, over a 10 year period, cumulatively exceeds 100,000 square feet of contiguous area or cumulatively exceeds 50,000 square feet of contiguous area if any portion of the disturbance is within the protected shoreland as defined in RSA 483-B"

-Work pad dimensions: Up to 100-ft x 100-ft; Access road width: 16-ft



- AOT DISTURBANCE AREA
- EXISTING ACCESS
- PROPOSED ACCESS
- OFF-ROW ACCESS PENDING RIGHTS
- WORKPAD
- TEMPORARY WETLAND IMPACT
- TEMPORARY UPLAND MATTING
- PUBLIC ROADS
- PRIVATE ROAD
- STATE ROAD
- EXISTING STRUCTURE - NO PROPOSED WORK
- EXISTING STRUCTURE TO BE REPLACED
- EXISTING TRANSMISSION LINE
- OTHER TRANSMISSION LINE
- APPROXIMATE ROW
- NHD FLOWLINES
- FIELD DELINEATED WETLAND
- PARCEL BOUNDARY
- EVERSOURCE OWNED PARCEL
- POTENTIAL VERNAL POOL
- TOWN BOUNDARY
- RAILROAD/RAIL TRAIL
- PARCEL BOUNDARY
- EVERSOURCE OWNED PARCEL
- STATE OWNED PARCEL
- EROSION CONTROL
- CULVERT
- 2 FT ELEVATION CONTOUR

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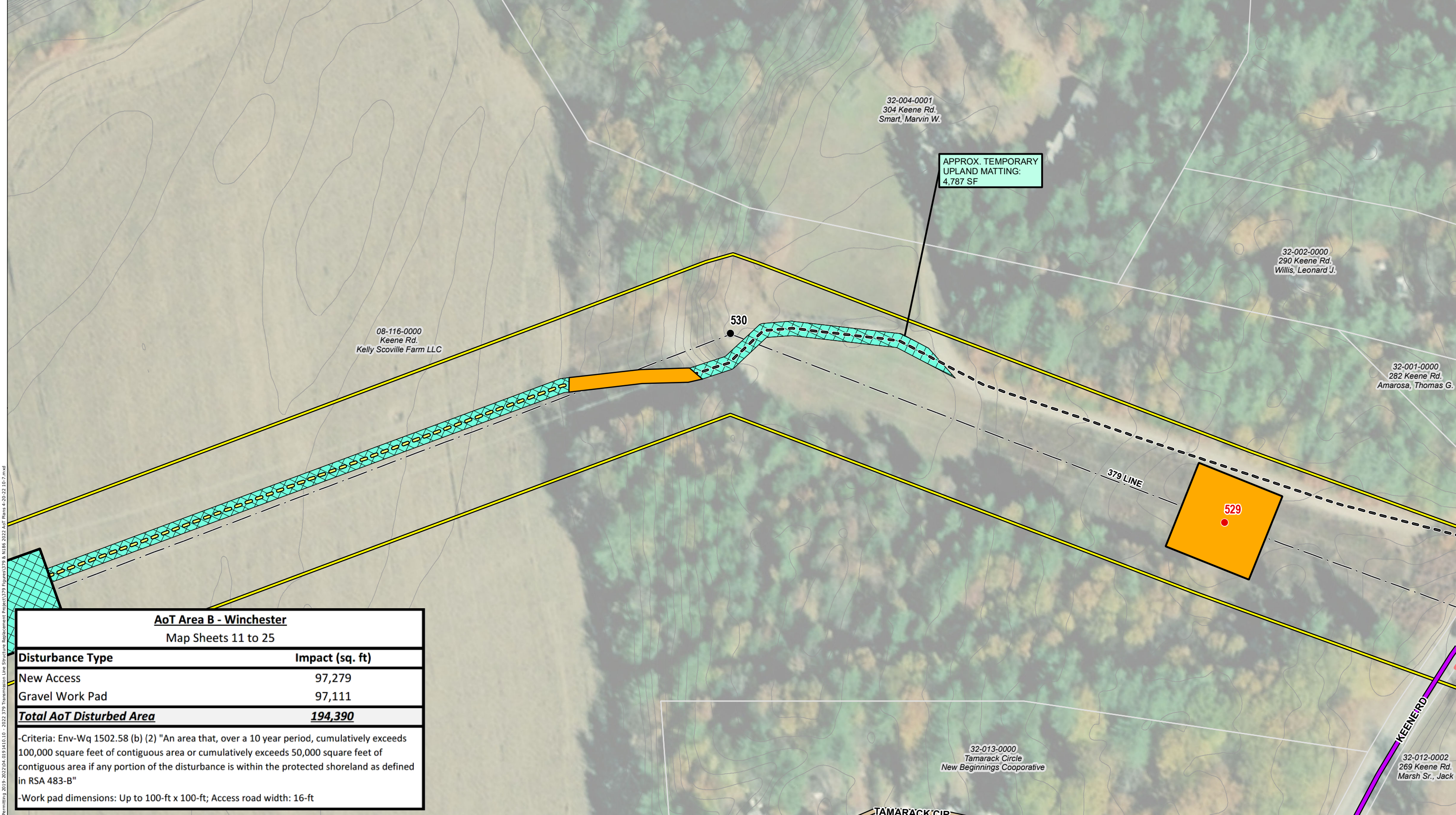
NO.	DATE	REVISIONS

EVSOURCE
ENERGY

**2022 379 & N186 Transmission Line
Structure Replacement Project
Alteration of Terrain Permitting Plans**

Winchester, NH	MAP SHEET
Date: May, 2022	17 OF 38
04.0191410.10	

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32-004-0001
304 Keene Rd.
Smart, Marvin W.

32-002-0000
290 Keene Rd.
Willis, Leonard J.

32-001-0000
282 Keene Rd.
Amarosa, Thomas G.

08-116-0000
Keene Rd.
Kelly Scoville Farm LLC

APPROX. TEMPORARY
UPLAND MATTING:
4,787 SF

530

529

379 LINE

KEENE RD

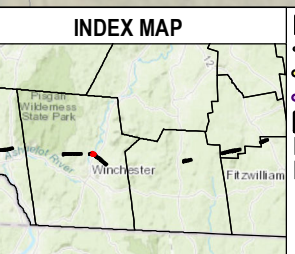
32-013-0000
Tamarack Circle
New Beginnings Cooperative

32-012-0002
269 Keene Rd.
Marsh Sr., Jack

TAMARACK CIR

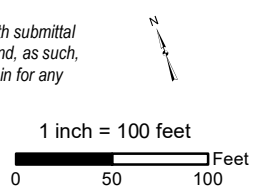
AoT Area B - Winchester	
Map Sheets 11 to 25	
Disturbance Type	Impact (sq. ft)
New Access	97,279
Gravel Work Pad	97,111
Total AoT Disturbed Area	194,390
-Criteria: Env-Wq 1502.58 (b) (2) "An area that, over a 10 year period, cumulatively exceeds 100,000 square feet of contiguous area or cumulatively exceeds 50,000 square feet of contiguous area if any portion of the disturbance is within the protected shoreland as defined in RSA 483-B"	
-Work pad dimensions: Up to 100-ft x 100-ft; Access road width: 16-ft	

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- AOT DISTURBANCE AREA
- EXISTING ACCESS
- PROPOSED ACCESS
- OFF-ROW ACCESS PENDING RIGHTS
- WORKPAD
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- CULVERT
- 2 FT ELEVATION CONTOUR

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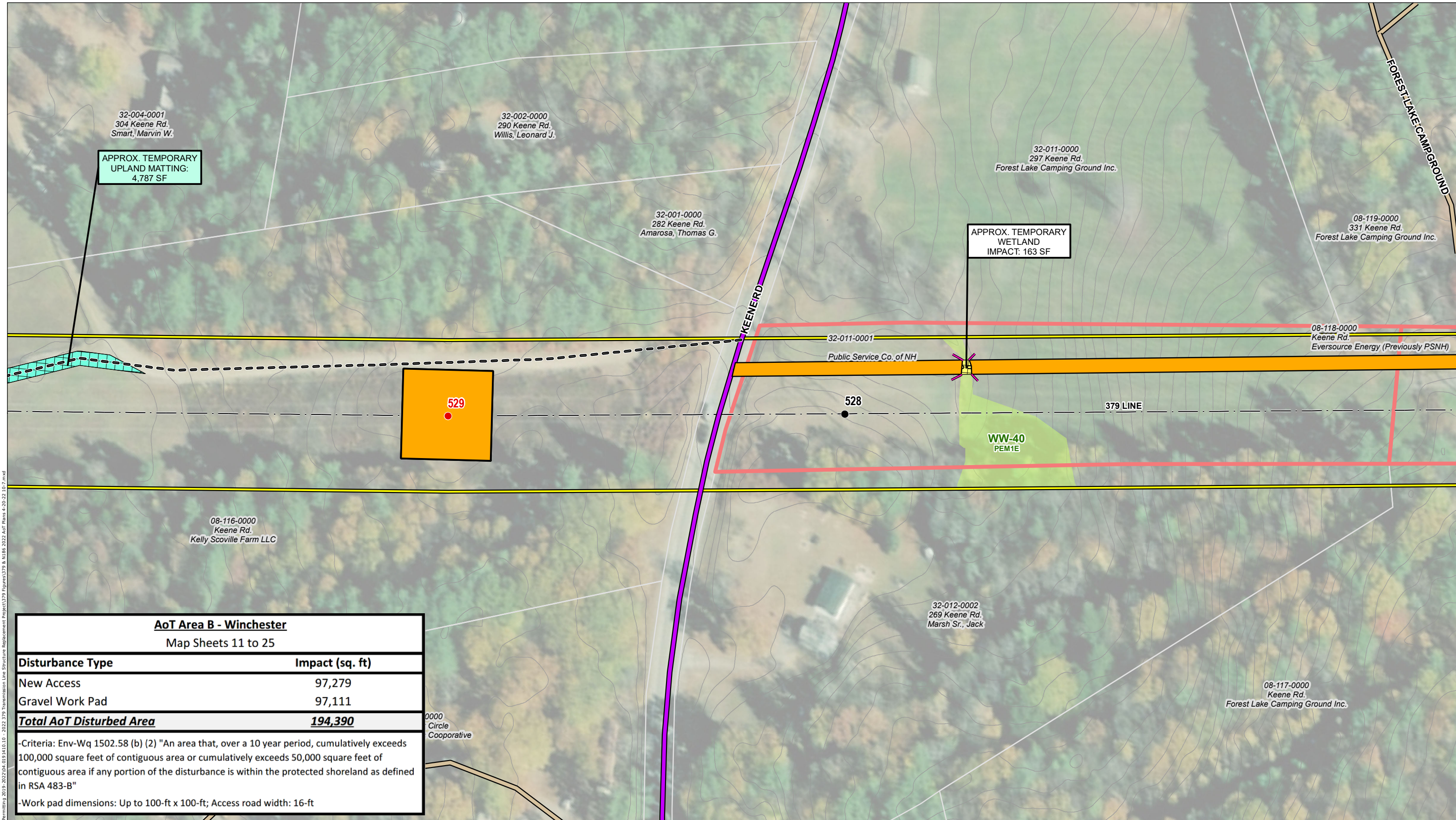


NO.	DATE	REVISIONS

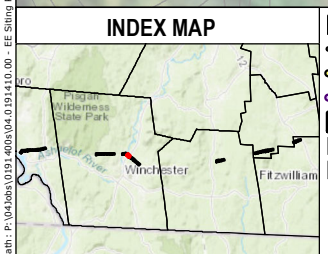
EVERSOURCE ENERGY

2022 379 & N186 Transmission Line Structure Replacement Project
Alteration of Terrain Permitting Plans

Winchester, NH	MAP SHEET
Date: May, 2022	19 OF 38
04.0191410.10	

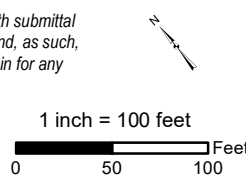


AoT Area B - Winchester	
Map Sheets 11 to 25	
Disturbance Type	Impact (sq. ft)
New Access	97,279
Gravel Work Pad	97,111
Total AoT Disturbed Area	194,390
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-Work pad dimensions: Up to 100-ft x 100-ft; Access road width: 16-ft	



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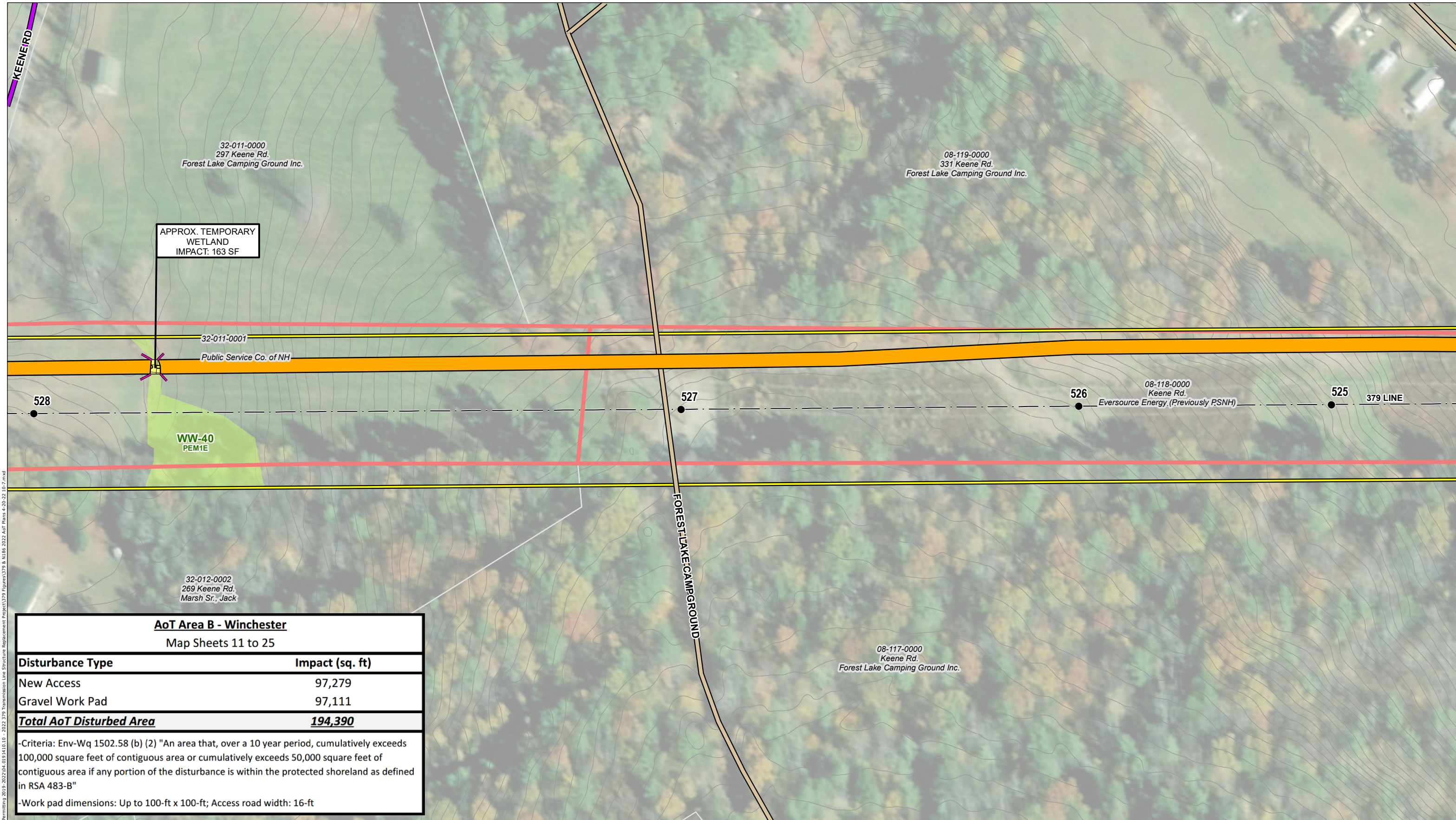
NO.	DATE	REVISIONS

EVSOURCE ENERGY

2022 379 & N186 Transmission Line Structure Replacement Project Alteration of Terrain Permitting Plans

Winchester, NH	MAP SHEET
Date: May, 2022	20 OF 38
04.0191410.10	

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APPROX. TEMPORARY
WETLAND
IMPACT: 163 SF

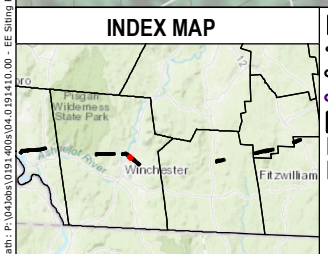
WW-40
PEM1E

AoT Area B - Winchester
Map Sheets 11 to 25

Disturbance Type	Impact (sq. ft)
New Access	97,279
Gravel Work Pad	97,111
Total AoT Disturbed Area	194,390

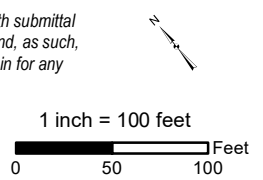
-Criteria: Env-Wq 1502.58 (b) (2) "An area that, over a 10 year period, cumulatively exceeds 100,000 square feet of contiguous area or cumulatively exceeds 50,000 square feet of contiguous area if any portion of the disturbance is within the protected shoreland as defined in RSA 483-B"

-Work pad dimensions: Up to 100-ft x 100-ft; Access road width: 16-ft



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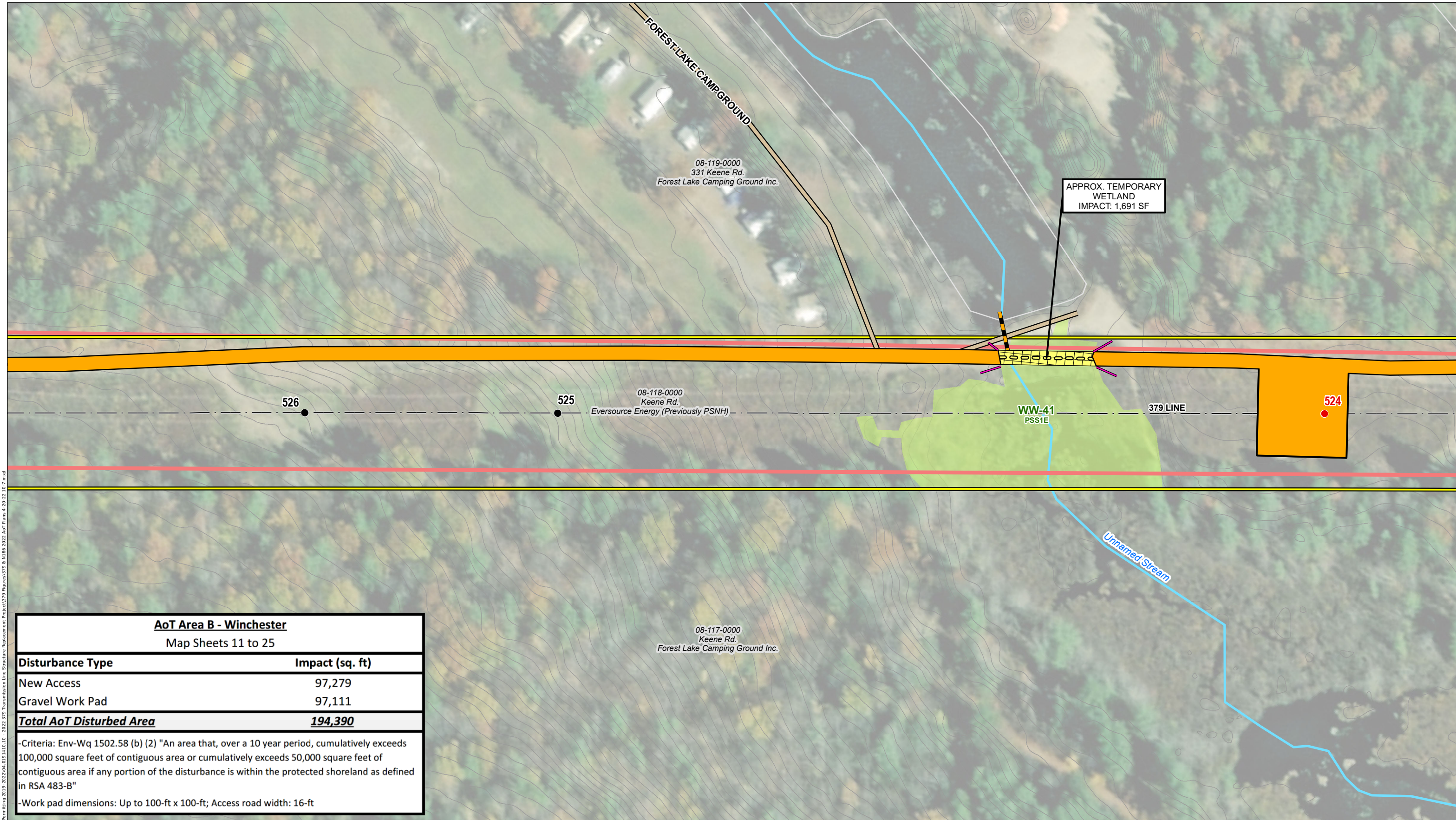
NO.	DATE	REVISIONS

EVSOURCE ENERGY

2022 379 & N186 Transmission Line Structure Replacement Project Alteration of Terrain Permitting Plans

Winchester, NH	MAP SHEET
Date: May, 2022	21 OF 38
04.0191410.10	

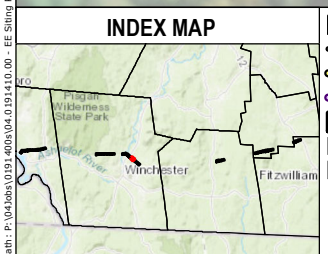
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AoT Area B - Winchester
Map Sheets 11 to 25

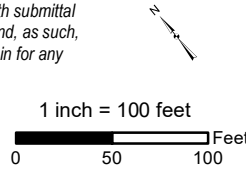
Disturbance Type	Impact (sq. ft)
New Access	97,279
Gravel Work Pad	97,111
Total AoT Disturbed Area	194,390

-Criteria: Env-Wq 1502.58 (b) (2) "An area that, over a 10 year period, cumulatively exceeds 100,000 square feet of contiguous area or cumulatively exceeds 50,000 square feet of contiguous area if any portion of the disturbance is within the protected shoreland as defined in RSA 483-B"
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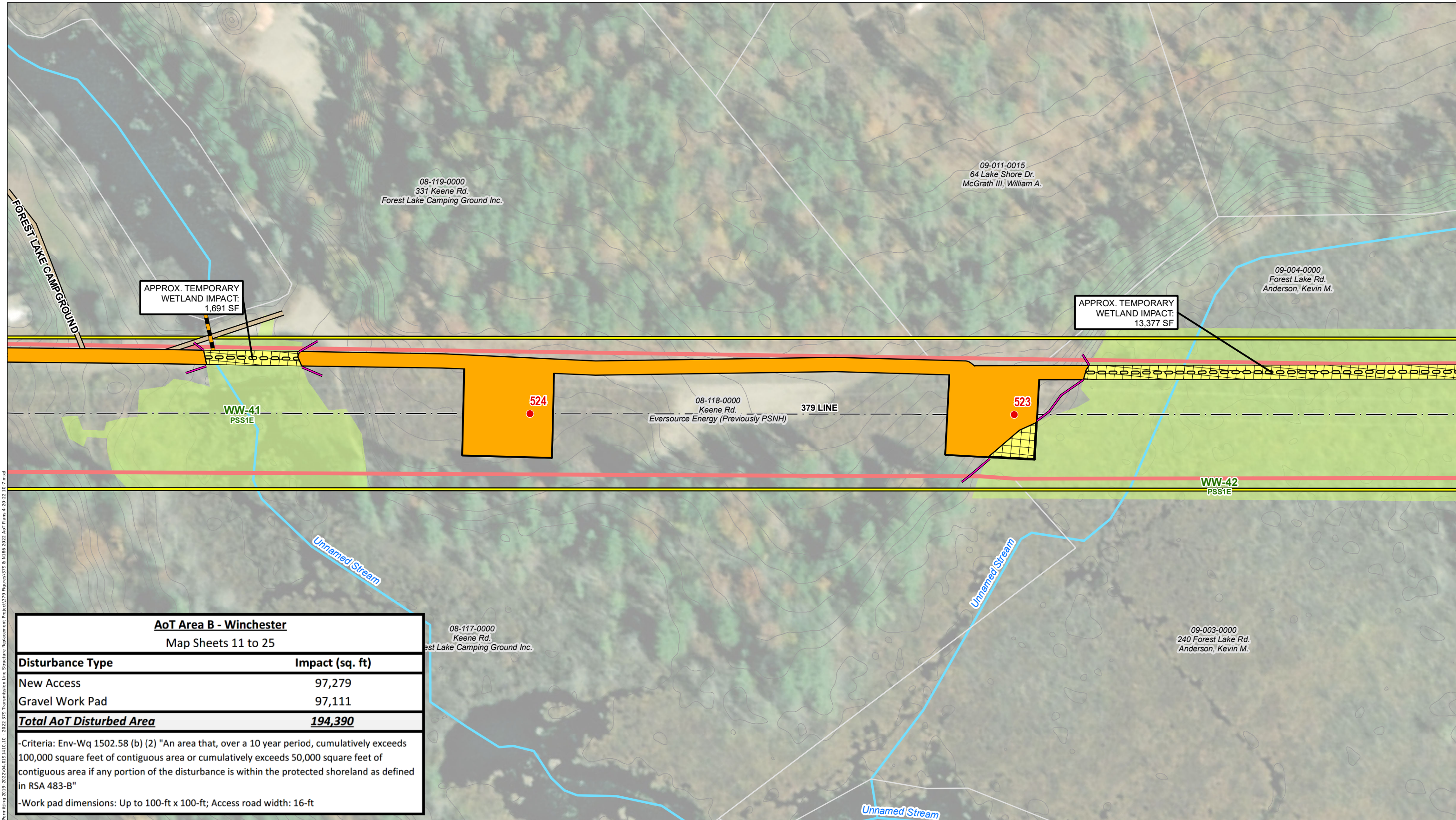
NO.	DATE	REVISIONS

EVSOURCE ENERGY

2022 379 & N186 Transmission Line Structure Replacement Project Alteration of Terrain Permitting Plans

Winchester, NH	MAP SHEET
Date: May, 2022	22 OF 38
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APPROX. TEMPORARY WETLAND IMPACT: 1,691 SF

APPROX. TEMPORARY WETLAND IMPACT: 13,377 SF

WW-41 PSS1E

WW-42 PSS1E

524

523

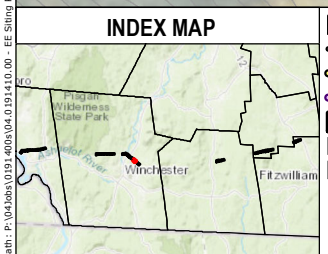
08-118-0000 Keene Rd. Eversource Energy (Previously PSNH) 379 LINE

AoT Area B - Winchester
Map Sheets 11 to 25

Disturbance Type	Impact (sq. ft)
New Access	97,279
Gravel Work Pad	97,111
Total AoT Disturbed Area	194,390

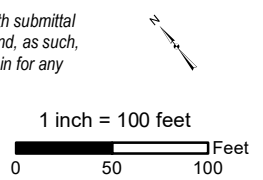
-Criteria: Env-Wq 1502.58 (b) (2) "An area that, over a 10 year period, cumulatively exceeds 100,000 square feet of contiguous area or cumulatively exceeds 50,000 square feet of contiguous area if any portion of the disturbance is within the protected shoreland as defined in RSA 483-B"

-Work pad dimensions: Up to 100-ft x 100-ft; Access road width: 16-ft



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- CULVERT
- 2 FT ELEVATION CONTOUR

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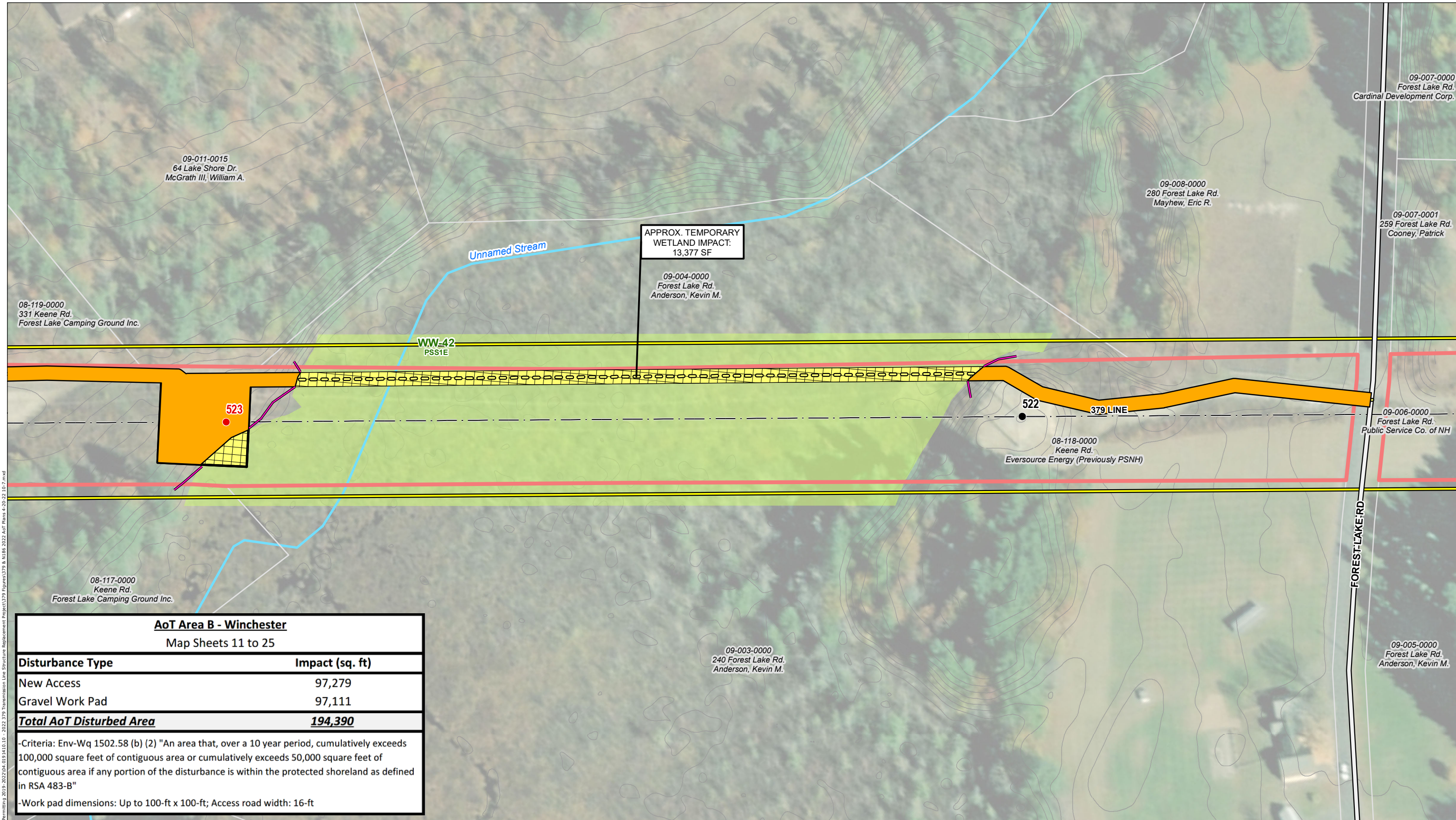
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EVSOURCE ENERGY

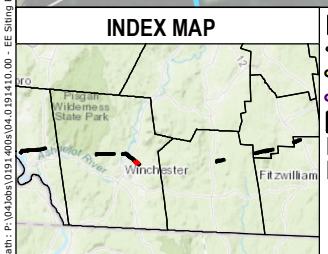
2022 379 & N186 Transmission Line Structure Replacement Project
Alteration of Terrain Permitting Plans

Winchester, NH	MAP SHEET
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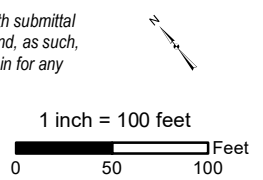


AoT Area B - Winchester	
Map Sheets 11 to 25	
Disturbance Type	Impact (sq. ft)
New Access	97,279
Gravel Work Pad	97,111
Total AoT Disturbed Area	194,390
-Criteria: Env-Wq 1502.58 (b) (2) "An area that, over a 10 year period, cumulatively exceeds 100,000 square feet of contiguous area or cumulatively exceeds 50,000 square feet of contiguous area if any portion of the disturbance is within the protected shoreland as defined in RSA 483-B"	
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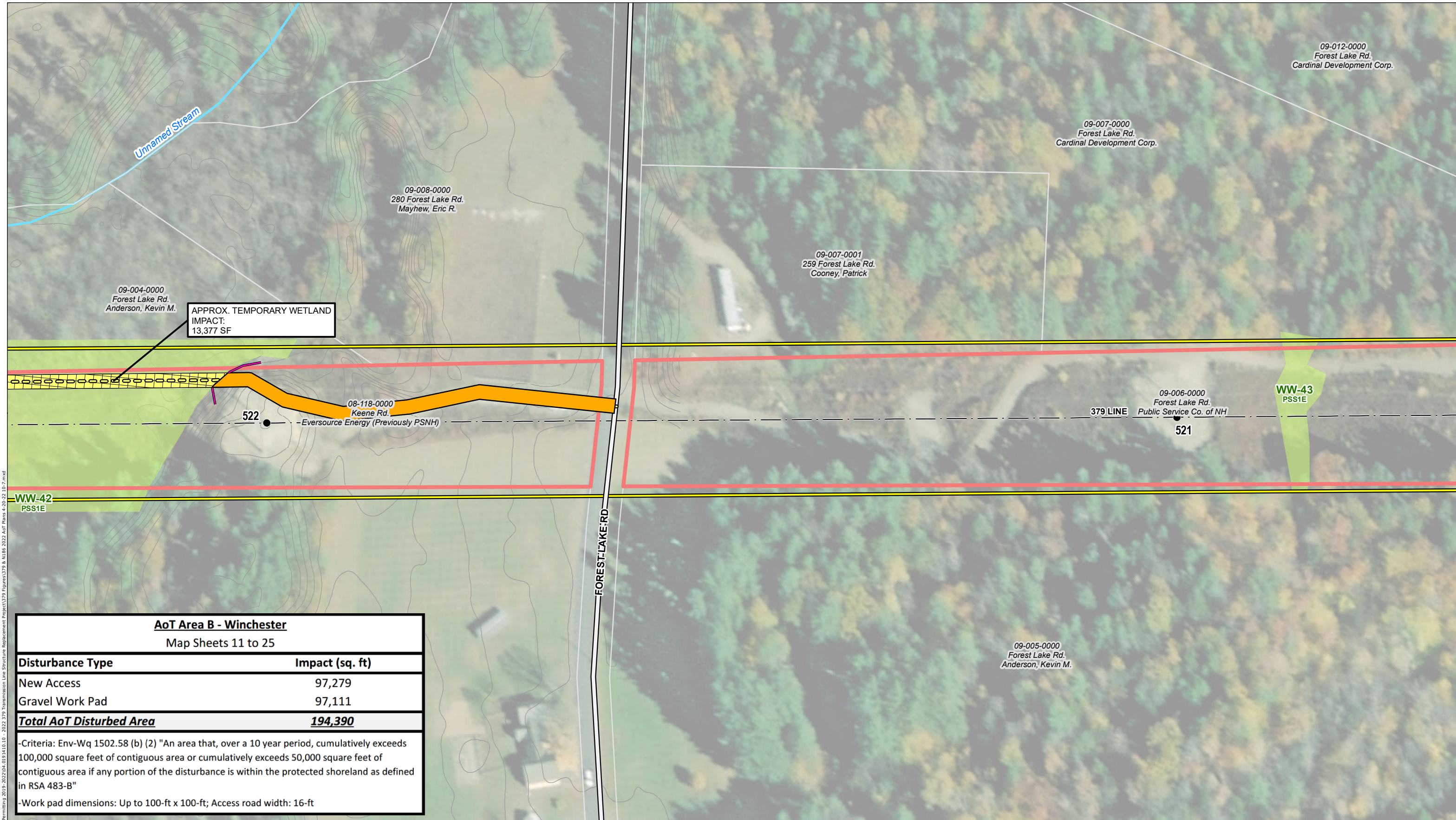
NO.	DATE	REVISIONS

EVSOURCE ENERGY

2022 379 & N186 Transmission Line Structure Replacement Project
Alteration of Terrain Permitting Plans

Winchester, NH	MAP SHEET
Date: May, 2022	24 OF 38
04.0191410.10	

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09-012-0000
Forest Lake Rd.
Cardinal Development Corp.

09-007-0000
Forest Lake Rd.
Cardinal Development Corp.

09-008-0000
280 Forest Lake Rd.
Mayhew, Eric R.

09-007-0001
259 Forest Lake Rd.
Cooney, Patrick

09-004-0000
Forest Lake Rd.
Anderson, Kevin M.

APPROX. TEMPORARY WETLAND
IMPACT:
13,377 SF

08-118-0000
Keene Rd.
Eversource Energy (Previously PSNH)

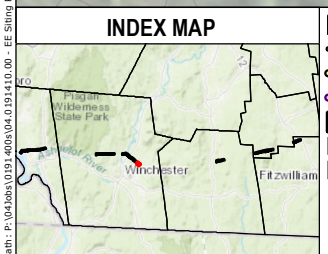
09-006-0000
Forest Lake Rd.
Public Service Co. of NH

WW-43
PSS1E

WW-42
PSS1E

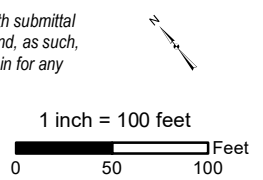
09-005-0000
Forest Lake Rd.
Anderson, Kevin M.

AoT Area B - Winchester	
Map Sheets 11 to 25	
Disturbance Type	Impact (sq. ft)
New Access	97,279
Gravel Work Pad	97,111
Total AoT Disturbed Area	194,390
-Criteria: Env-Wq 1502.58 (b) (2) "An area that, over a 10 year period, cumulatively exceeds 100,000 square feet of contiguous area or cumulatively exceeds 50,000 square feet of contiguous area if any portion of the disturbance is within the protected shoreland as defined in RSA 483-B"	
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- 2 FT ELEVATION CONTOUR

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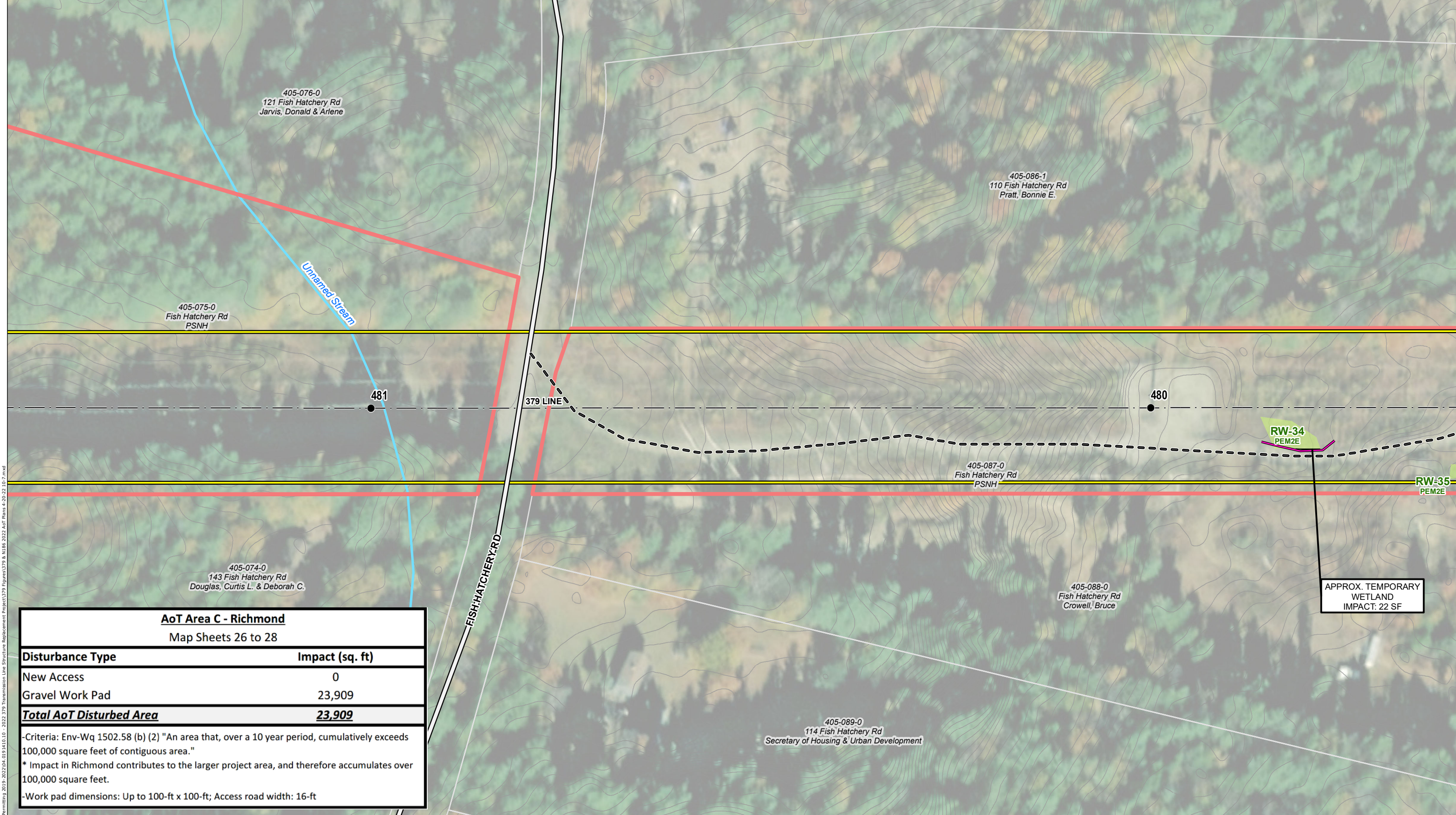
NO.	DATE	REVISIONS

EVSOURCE ENERGY

2022 379 & N186 Transmission Line Structure Replacement Project Alteration of Terrain Permitting Plans

Winchester, NH	MAP SHEET
Date: May, 2022	25 OF 38
04.0191410.10	

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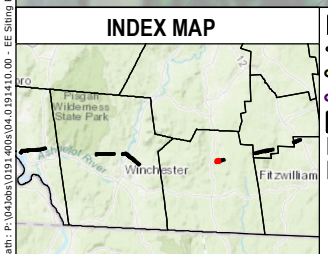
AoT Area C - Richmond

Map Sheets 26 to 28

Disturbance Type	Impact (sq. ft)
New Access	0
Gravel Work Pad	23,909
Total AoT Disturbed Area	23,909

-Criteria: Env-Wq 1502.58 (b) (2) "An area that, over a 10 year period, cumulatively exceeds 100,000 square feet of contiguous area."
 * Impact in Richmond contributes to the larger project area, and therefore accumulates over 100,000 square feet.
 -Work pad dimensions: Up to 100-ft x 100-ft; Access road width: 16-ft

APPROX. TEMPORARY WETLAND IMPACT: 22 SF



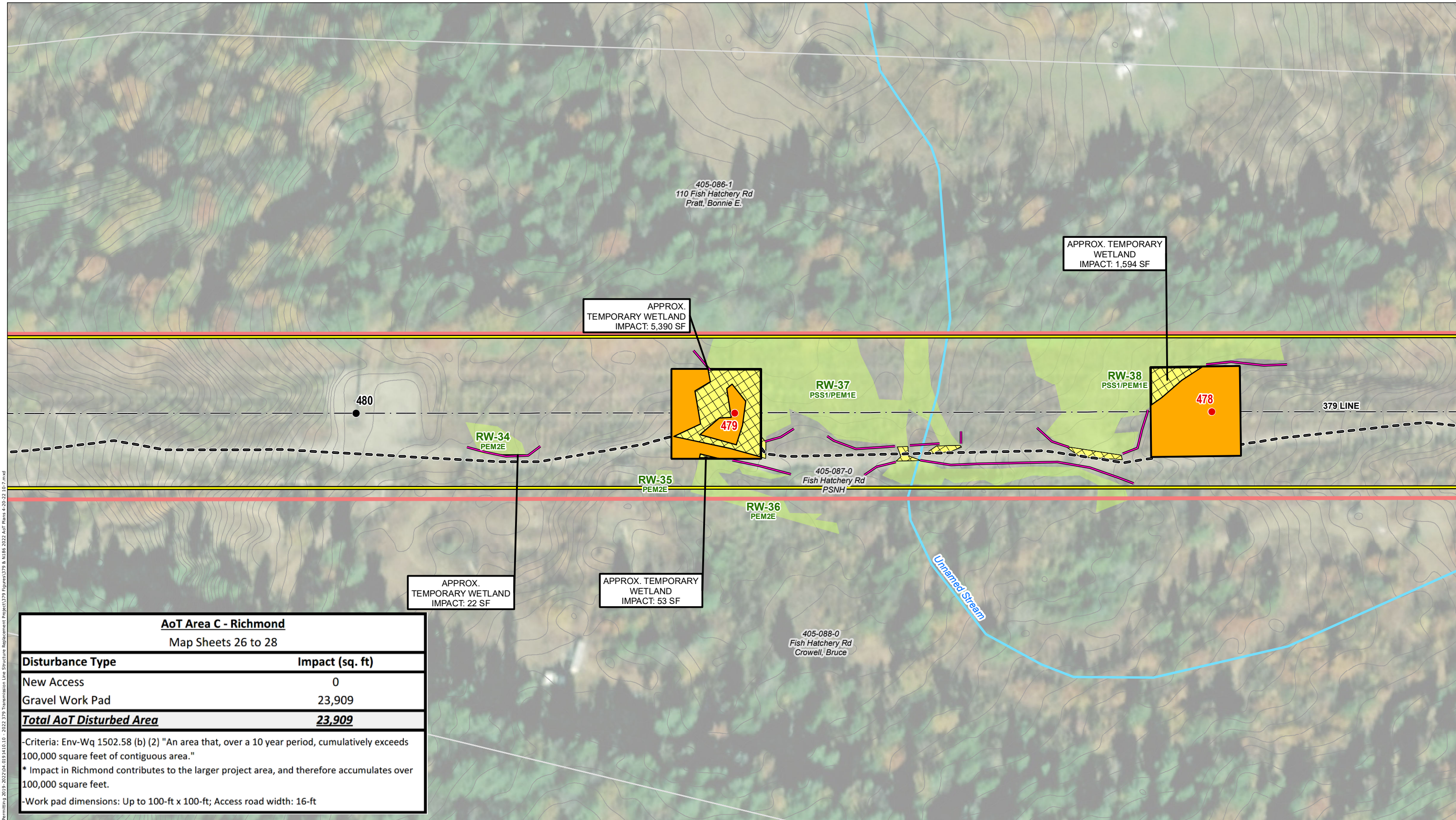
- AOT DISTURBANCE AREA
- EXISTING ACCESS
- PROPOSED ACCESS
- OFF-ROW ACCESS PENDING RIGHTS
- WORKPAD
- TEMPORARY WETLAND IMPACT
- TEMPORARY UPLAND MATTING
- PUBLIC ROADS
- PRIVATE ROAD
- STATE ROAD
- EXISTING STRUCTURE - NO PROPOSED WORK
- EXISTING STRUCTURE TO BE REPLACED
- EXISTING TRANSMISSION LINE
- OTHER TRANSMISSION LINE
- APPROXIMATE ROW
- NHD FLOWLINES
- FIELD DELINEATED WETLAND
- PARCEL BOUNDARY
- EVERSOURCE OWNED PARCEL
- POTENTIAL VERNAL POOL
- TOWN BOUNDARY
- RAILROAD/RAIL TRAIL
- PARCEL BOUNDARY
- EVERSOURCE OWNED PARCEL
- STATE OWNED PARCEL
- EROSION CONTROL
- CULVERT
- 2 FT ELEVATION CONTOUR

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1 inch = 100 feet

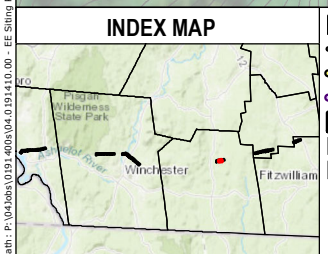
EVSOURCE ENERGY	
2022 379 & N186 Transmission Line Structure Replacement Project Alteration of Terrain Permitting Plans	
Richmond, NH	MAP SHEET
Date: May, 2022	26 OF 38
NO.	DATE
REVISIONS	04.0191410.10

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AoT Area C - Richmond	
Map Sheets 26 to 28	
Disturbance Type	Impact (sq. ft)
New Access	0
Gravel Work Pad	23,909
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N

1 inch = 100 feet

0 50 100 Feet

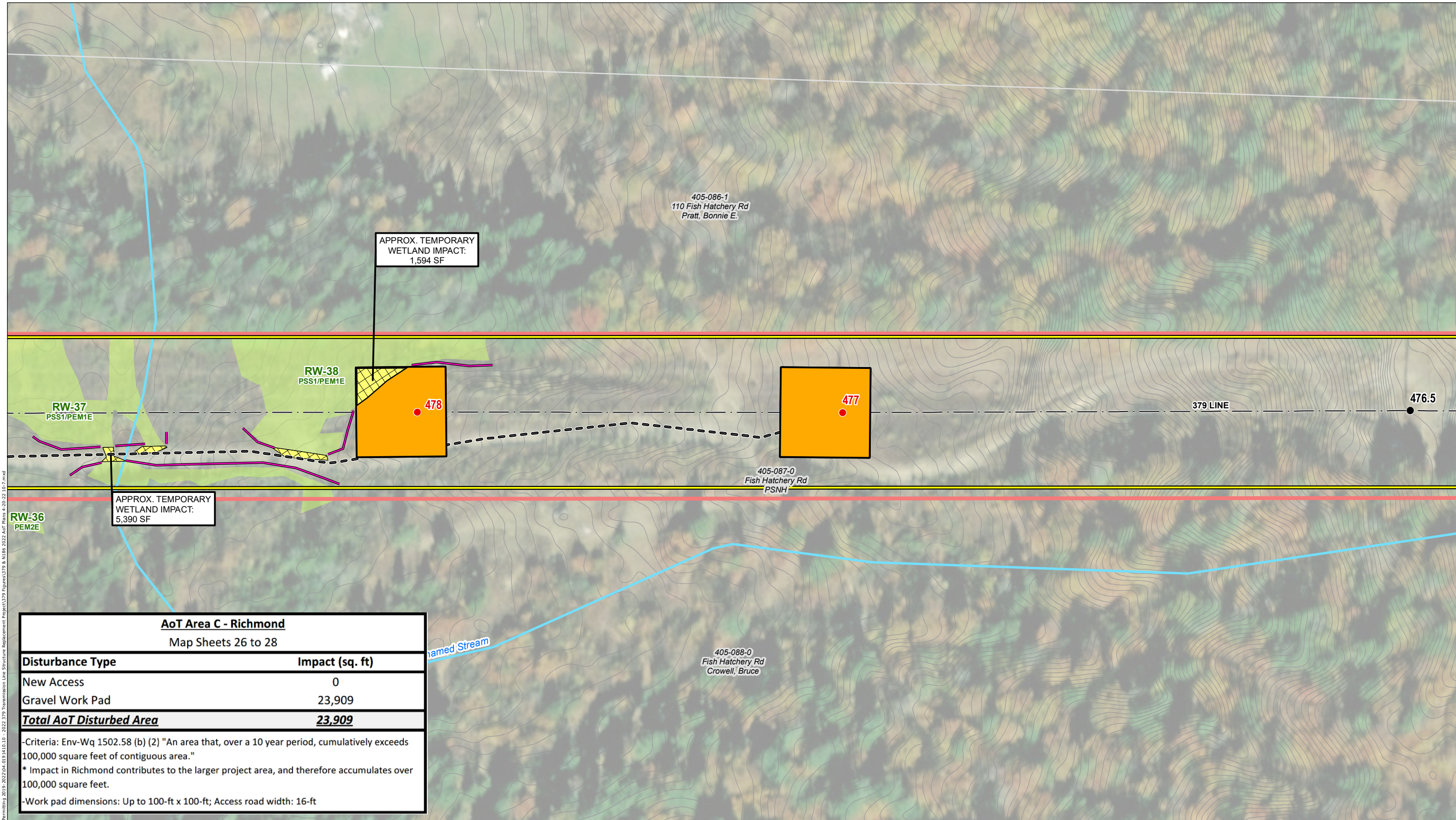
NO.	DATE	REVISIONS

EVERSOURCE ENERGY

2022 379 & N186 Transmission Line Structure Replacement Project Alteration of Terrain Permitting Plans

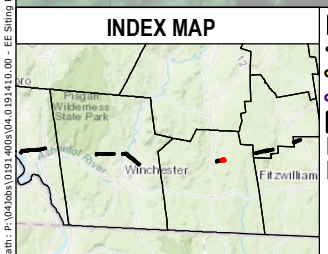
Richmond, NH	MAP SHEET
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04.0191410.10	

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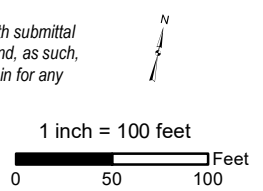
AoT Area C - Richmond	
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Disturbance Type	Impact (sq. ft)
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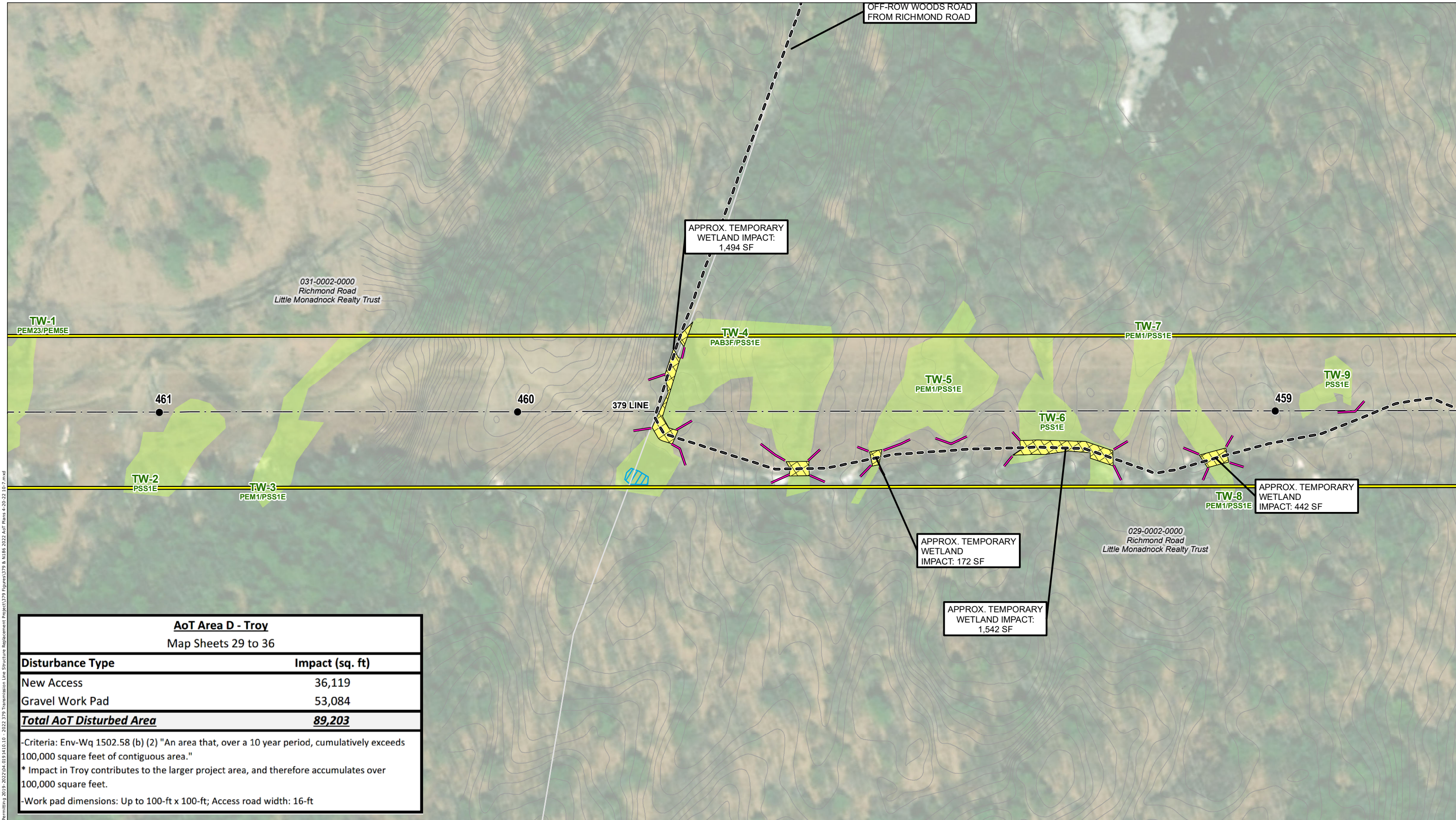
NO.	DATE	REVISIONS

EVSOURCE ENERGY

2022 379 & N186 Transmission Line Structure Replacement Project Alteration of Terrain Permitting Plans

Richmond, NH	MAP SHEET
Date: May, 2022	28 OF 38
04.0191410.10	

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OFF-ROW WOODS ROAD FROM RICHMOND ROAD

APPROX. TEMPORARY WETLAND IMPACT: 1,494 SF

APPROX. TEMPORARY WETLAND IMPACT: 442 SF

APPROX. TEMPORARY WETLAND IMPACT: 172 SF

APPROX. TEMPORARY WETLAND IMPACT: 1,542 SF

031-0002-0000
Richmond Road
Little Monadnock Realty Trust

029-0002-0000
Richmond Road
Little Monadnock Realty Trust

TW-1
PEM23/PEM5E

TW-4
PAB3F/PSS1E

TW-7
PEM1/PSS1E

TW-9
PSS1E

461

460

379 LINE

TW-5
PEM1/PSS1E

TW-6
PSS1E

459

TW-2
PSS1E

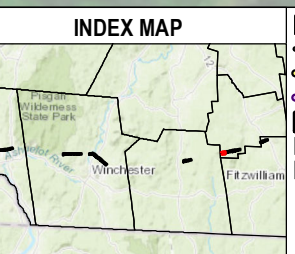
TW-3
PEM1/PSS1E

TW-8
PEM1/PSS1E

AoT Area D - Troy	
Map Sheets 29 to 36	
Disturbance Type	Impact (sq. ft)
New Access	36,119
Gravel Work Pad	53,084
Total AoT Disturbed Area	89,203

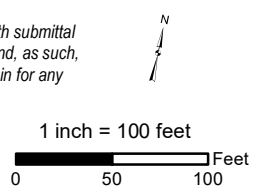
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- AOT DISTURBANCE AREA
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- PROPOSED ACCESS
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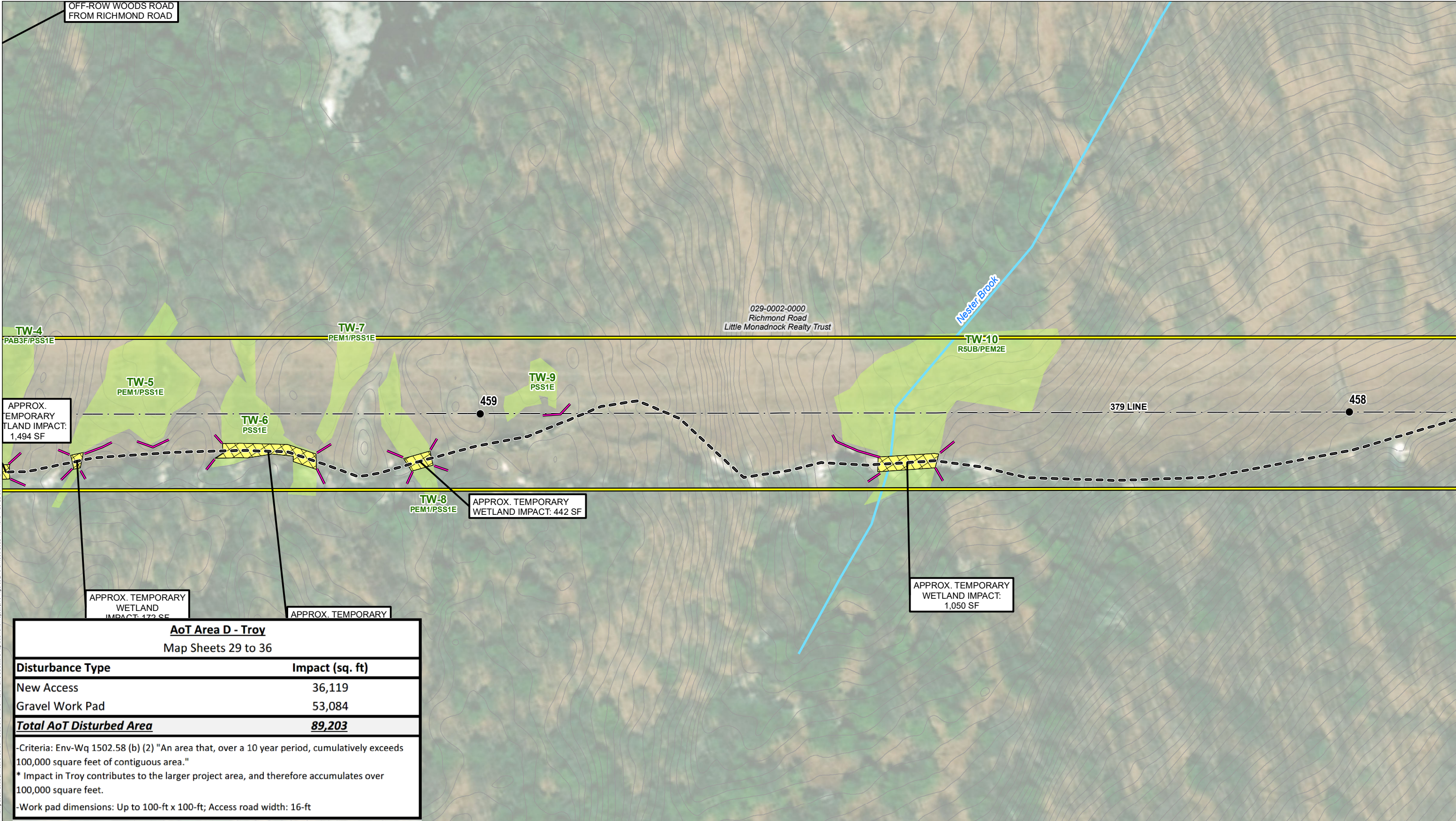
NO.	DATE	REVISIONS

EVSOURCE ENERGY

2022 379 & N186 Transmission Line Structure Replacement Project
Alteration of Terrain Permitting Plans

Troy, NH	MAP SHEET
Date: May, 2022	29 OF 38
04.0191410.10	

OFF-ROW WOODS ROAD FROM RICHMOND ROAD



APPROX. TEMPORARY UPLAND IMPACT: 1,494 SF

459

458

379 LINE

TW-10
R5UB/PEM2E

TW-4
PAB3F/PSS1E

TW-7
PEM1/PSS1E

TW-5
PEM1/PSS1E

TW-6
PSS1E

TW-9
PSS1E

TW-8
PEM1/PSS1E

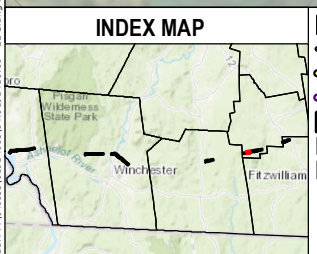
APPROX. TEMPORARY WETLAND IMPACT: 442 SF

APPROX. TEMPORARY WETLAND IMPACT: 1,050 SF

APPROX. TEMPORARY WETLAND IMPACT: 172 SF

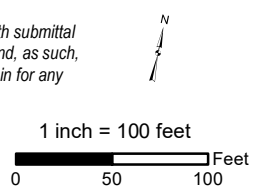
APPROX. TEMPORARY

AoT Area D - Troy	
Map Sheets 29 to 36	
Disturbance Type	Impact (sq. ft)
New Access	36,119
Gravel Work Pad	53,084
Total AoT Disturbed Area	89,203
-Criteria: Env-Wq 1502.58 (b) (2) "An area that, over a 10 year period, cumulatively exceeds 100,000 square feet of contiguous area."	
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-Work pad dimensions: Up to 100-ft x 100-ft; Access road width: 16-ft	



- AO T DISTURBANCE AREA
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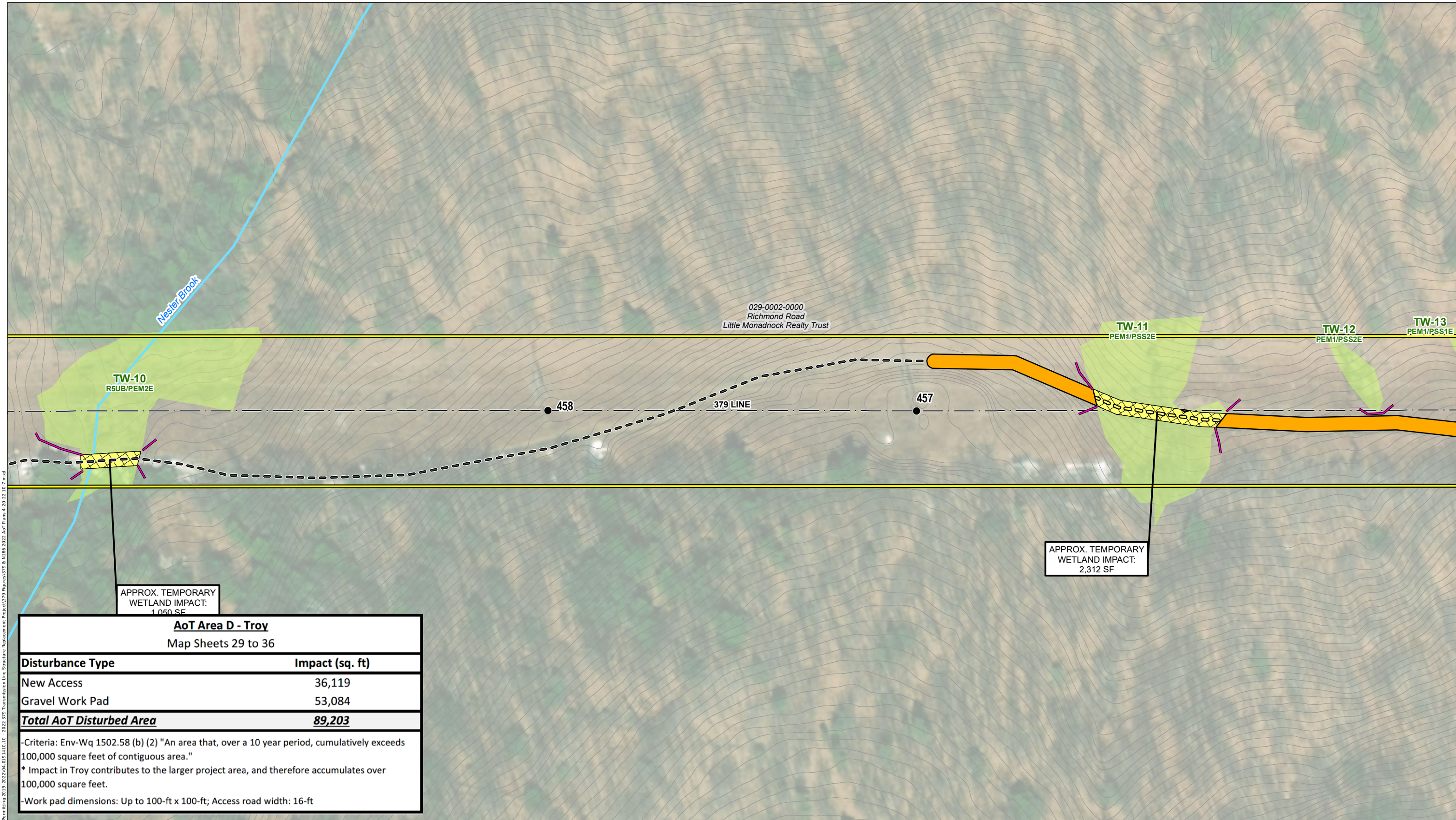
NO.	DATE	REVISIONS

EVSOURCE ENERGY

2022 379 & N186 Transmission Line Structure Replacement Project
Alteration of Terrain Permitting Plans

Troy, NH	MAP SHEET
Date: May, 2022	30 OF 38
04.0191410.10	

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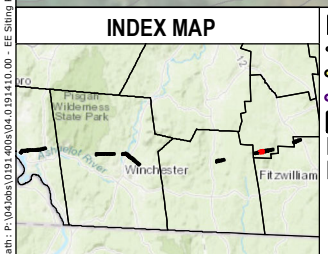


APPROX. TEMPORARY WETLAND IMPACT: 1,050 SF

APPROX. TEMPORARY WETLAND IMPACT: 2,312 SF

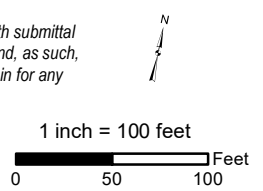
AoT Area D - Troy	
Map Sheets 29 to 36	
Disturbance Type	Impact (sq. ft)
New Access	36,119
Gravel Work Pad	53,084
Total AoT Disturbed Area	89,203

-Criteria: Env-Wq 1502.58 (b) (2) "An area that, over a 10 year period, cumulatively exceeds 100,000 square feet of contiguous area."
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NO.	DATE	REVISIONS

EVERSOURCE ENERGY

2022 379 & N186 Transmission Line Structure Replacement Project
Alteration of Terrain Permitting Plans

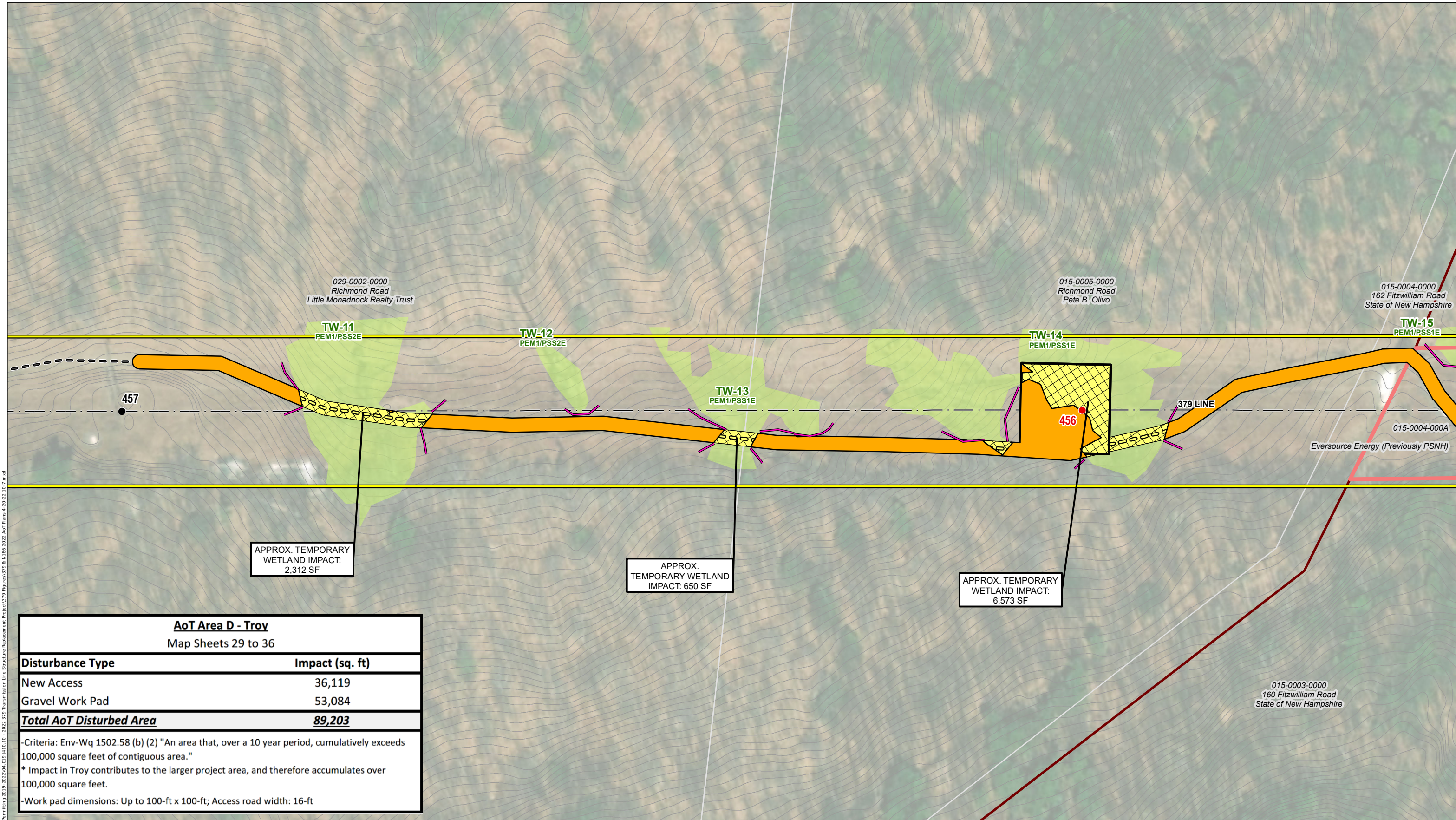
Troy, NH MAP SHEET

Date: May, 2022

04.0191410.10

31 OF 38

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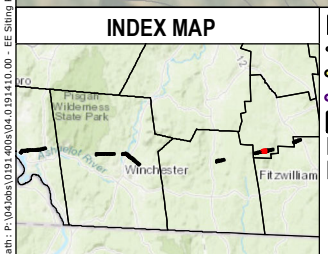


APPROX. TEMPORARY WETLAND IMPACT: 2,312 SF

APPROX. TEMPORARY WETLAND IMPACT: 650 SF

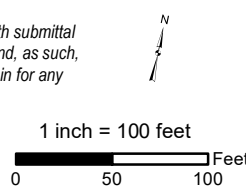
APPROX. TEMPORARY WETLAND IMPACT: 6,573 SF

AoT Area D - Troy	
Map Sheets 29 to 36	
Disturbance Type	Impact (sq. ft)
New Access	36,119
Gravel Work Pad	53,084
Total AoT Disturbed Area	89,203
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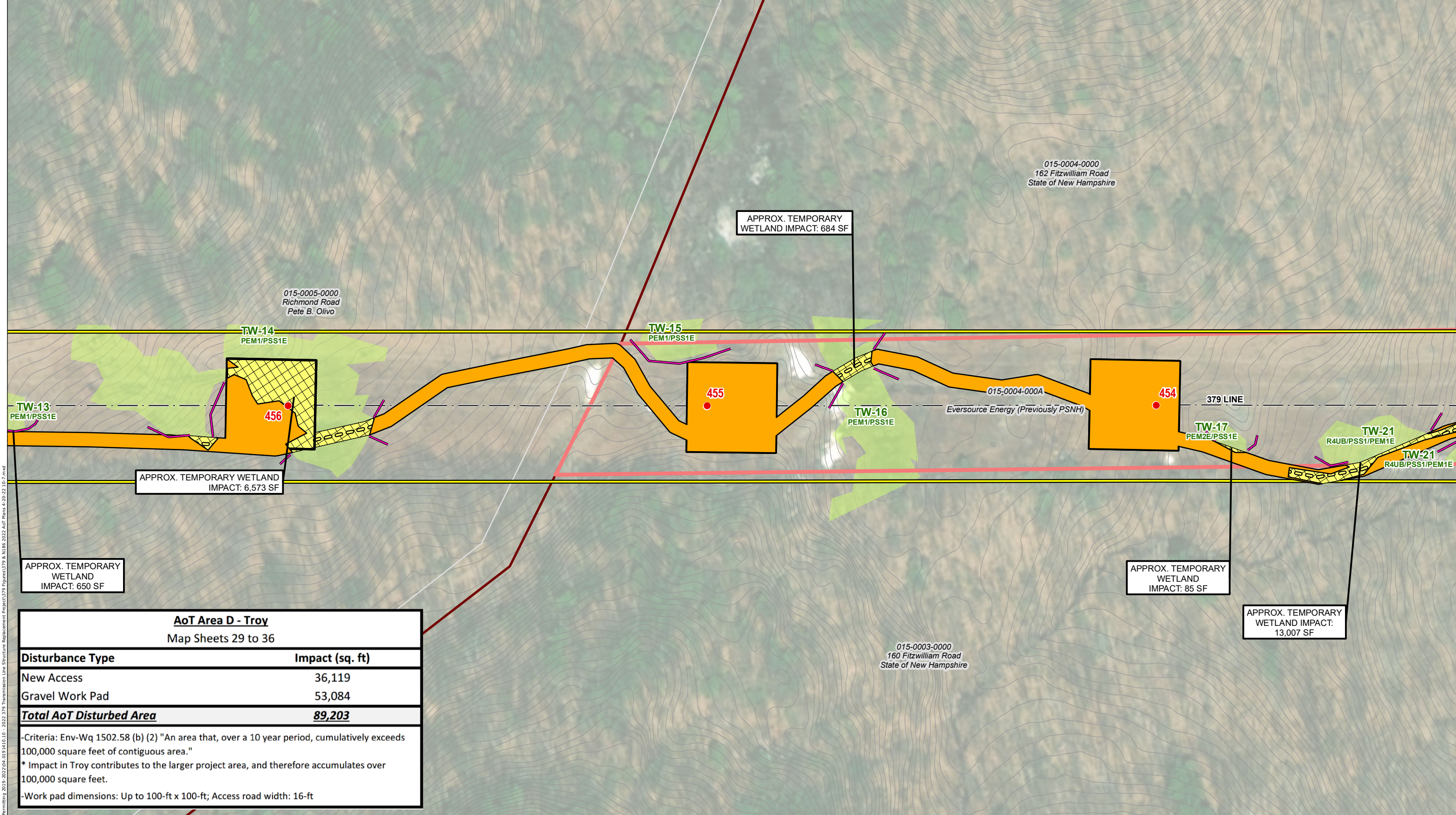
NO.	DATE	REVISIONS

EVSOURCE ENERGY

2022 379 & N186 Transmission Line Structure Replacement Project
Alteration of Terrain Permitting Plans

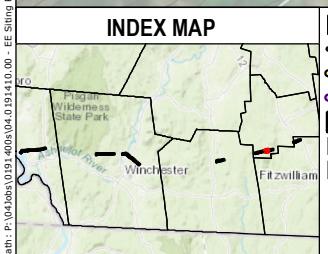
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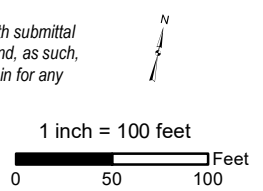
AoT Area D - Troy	
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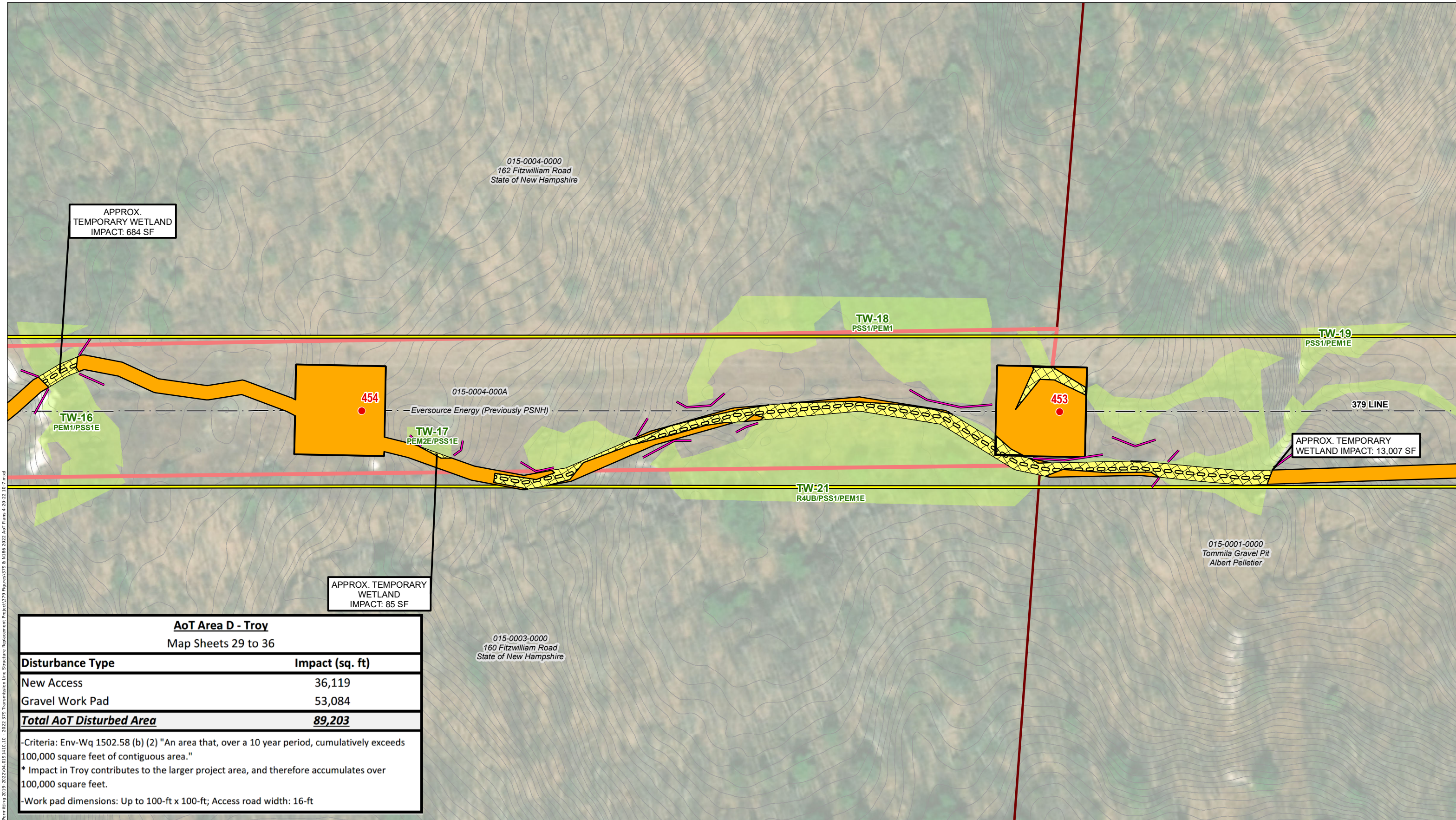
NO.	DATE	REVISIONS

EVERSOURCE ENERGY

2022 379 & N186 Transmission Line Structure Replacement Project Alteration of Terrain Permitting Plans

Troy, NH	MAP SHEET
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04.0191410.10	

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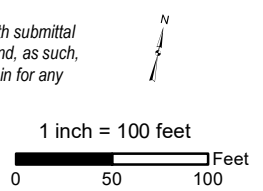
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AoT Area D - Troy	
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INDEX MAP 	<ul style="list-style-type: none"> AOT DISTURBANCE AREA EXISTING ACCESS PROPOSED ACCESS OFF-ROW ACCESS PENDING RIGHTS WORKPAD TEMPORARY WETLAND IMPACT TEMPORARY UPLAND MATTING PUBLIC ROADS PRIVATE ROAD STATE ROAD 	<ul style="list-style-type: none"> EXISTING STRUCTURE - NO PROPOSED WORK EXISTING STRUCTURE TO BE REPLACED EXISTING TRANSMISSION LINE OTHER TRANSMISSION LINE APPROXIMATE ROW NHD FLOWLINES FIELD DELINEATED WETLAND PARCEL BOUNDARY EVERSOURCE OWNED PARCEL POTENTIAL VERNAL POOL 	<ul style="list-style-type: none"> TOWN BOUNDARY RAILROAD/RAIL TRAIL PARCEL BOUNDARY EVERSOURCE OWNED PARCEL STATE OWNED PARCEL EROSION CONTROL CULVERT 2 FT ELEVATION CONTOUR
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EVSOURCE ENERGY	
2022 379 & N186 Transmission Line Structure Replacement Project Alteration of Terrain Permitting Plans	
Troy, NH	MAP SHEET
Date: May, 2022	34 OF 38
04.0191410.10	
NO. DATE	REVISIONS

015-0004-0000
162 Fitzwilliam Road
State of New Hampshire

015-0001-0000
Tommila Gravel Pit
Albert Pelletier

TW-18
PSS1/PEM1

TW-19
PSS1/PEM1E

TW-20
PSS1/PEM1E

453

452

379 LINE

451

TW-21
R4UB/PSS1/PEM1E

APPROX. TEMPORARY
WETLAND IMPACT:
13,007 SF

AoT Area D - Troy

Map Sheets 29 to 36

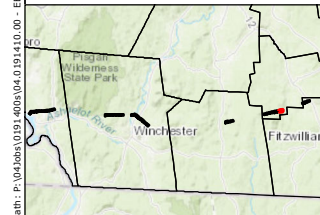
Disturbance Type	Impact (sq. ft)
New Access	36,119
Gravel Work Pad	53,084
Total AoT Disturbed Area	89,203

-Criteria: Env-Wq 1502.58 (b) (2) "An area that, over a 10 year period, cumulatively exceeds 100,000 square feet of contiguous area."

* Impact in Troy contributes to the larger project area, and therefore accumulates over 100,000 square feet.

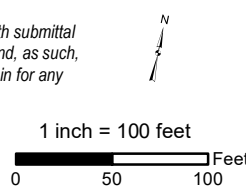
-Work pad dimensions: Up to 100-ft x 100-ft; Access road width: 16-ft

INDEX MAP



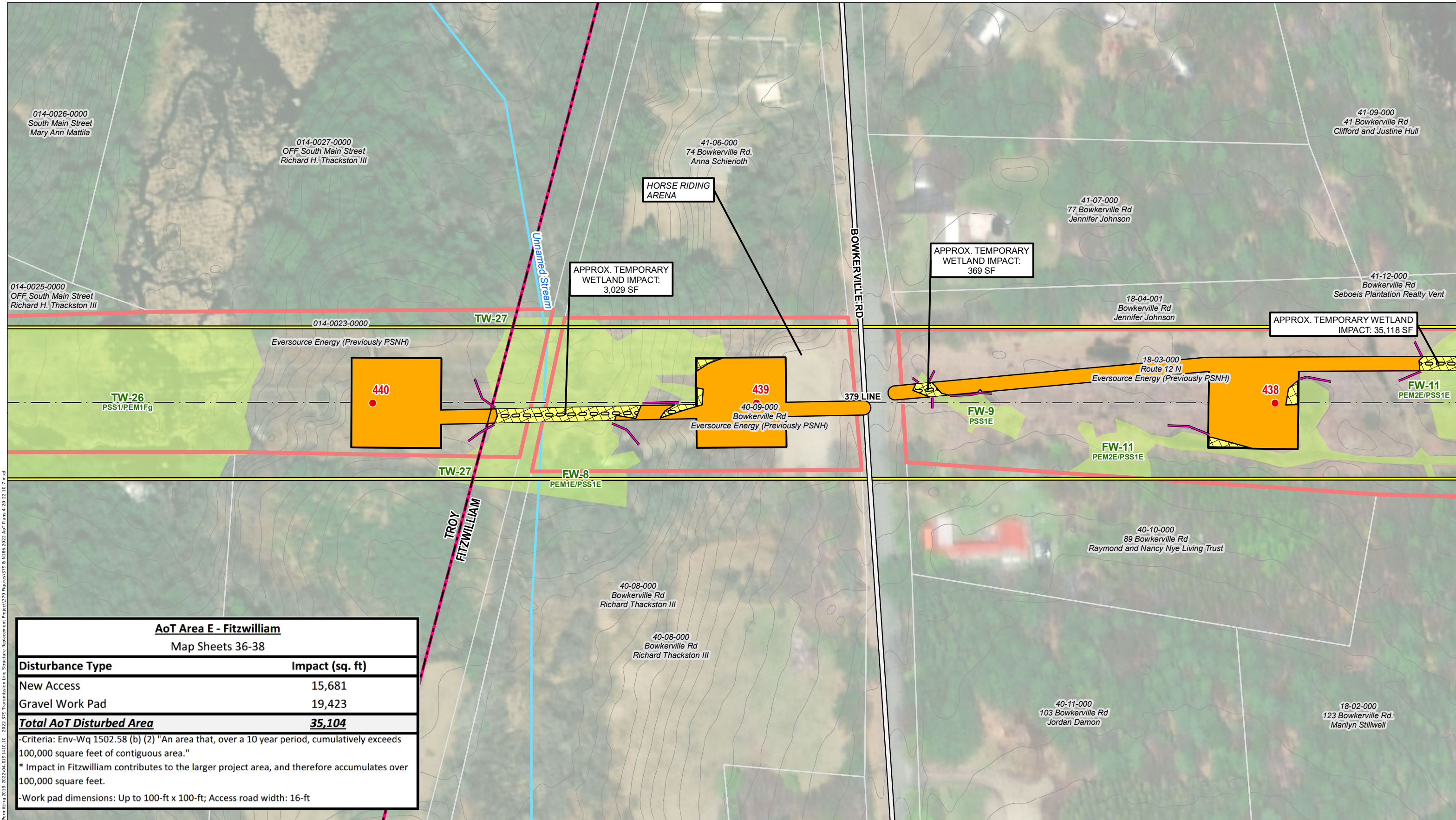
- AOT DISTURBANCE AREA
- EXISTING ACCESS
- PROPOSED ACCESS
- OFF-ROW ACCESS PENDING RIGHTS
- WORKPAD
- TEMPORARY WETLAND IMPACT
- TEMPORARY UPLAND MATTING
- PUBLIC ROADS
- PRIVATE ROAD
- STATE ROAD
- EXISTING STRUCTURE - NO PROPOSED WORK
- EXISTING STRUCTURE TO BE REPLACED
- EXISTING TRANSMISSION LINE
- OTHER TRANSMISSION LINE
- APPROXIMATE ROW
- NHD FLOWLINES
- FIELD DELINEATED WETLAND
- PARCEL BOUNDARY
- EVERSOURCE OWNED PARCEL
- POTENTIAL VERNAL POOL
- TOWN BOUNDARY
- RAILROAD/RAIL TRAIL
- PARCEL BOUNDARY
- EVERSOURCE OWNED PARCEL
- STATE OWNED PARCEL
- EROSION CONTROL
- CULVERT
- 2 FT ELEVATION CONTOUR

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EVSOURCE ENERGY			
2022 379 & N186 Transmission Line Structure Replacement Project Alteration of Terrain Permitting Plans			
Troy, NH		MAP SHEET	
Date: May, 2022		35 OF 38	
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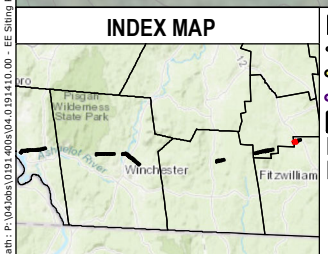
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 Date: 04/19/2022 10:07:10 AM
 User: jsmith



AoT Area E - Fitzwilliam
Map Sheets 36-38

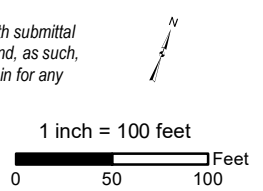
Disturbance Type	Impact (sq. ft)
New Access	15,681
Gravel Work Pad	19,423
Total AoT Disturbed Area	35,104

-Criteria: Env-Wq 1502.58 (b) (2) "An area that, over a 10 year period, cumulatively exceeds 100,000 square feet of contiguous area."
 * Impact in Fitzwilliam contributes to the larger project area, and therefore accumulates over 100,000 square feet.
 -Work pad dimensions: Up to 100-ft x 100-ft; Access road width: 16-ft



- AOT DISTURBANCE AREA
- EXISTING ACCESS
- PROPOSED ACCESS
- OFF-ROW ACCESS PENDING RIGHTS
- WORKPAD
- TEMPORARY WETLAND IMPACT
- TEMPORARY UPLAND MATTING
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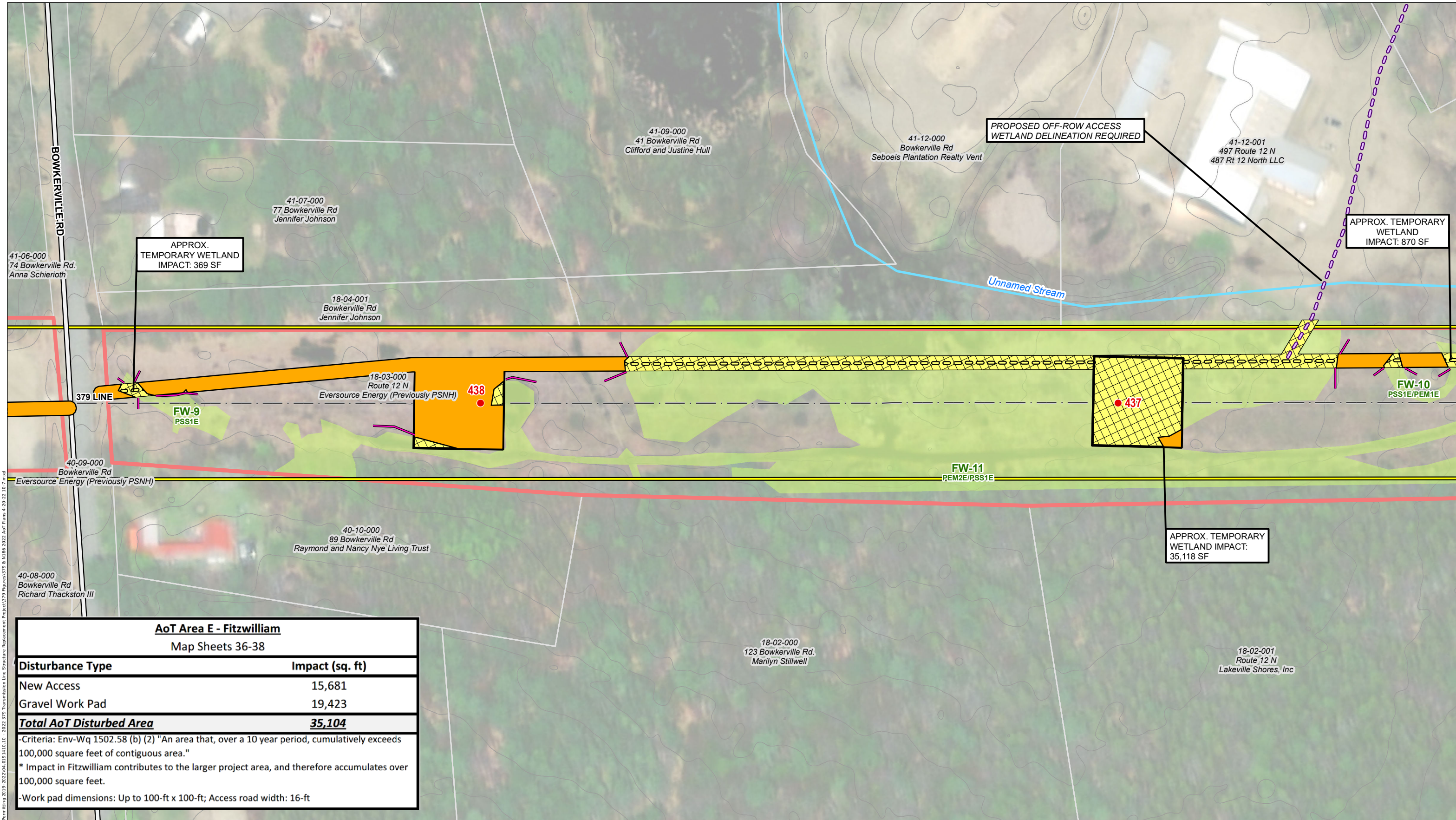
NO.	DATE	REVISIONS

EVSOURCE ENERGY

2022 379 & N186 Transmission Line Structure Replacement Project Alteration of Terrain Permitting Plans

Troy/Fitzwilliam, NH	MAP SHEET
Date: May, 2022	36 OF 38
04.0191410.10	

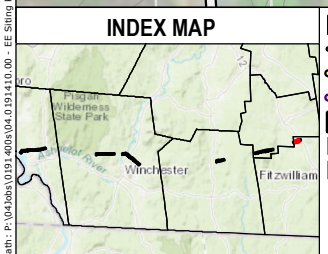
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AoT Area E - Fitzwilliam
Map Sheets 36-38

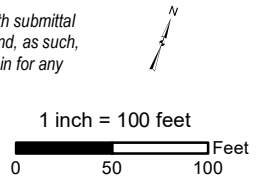
Disturbance Type	Impact (sq. ft)
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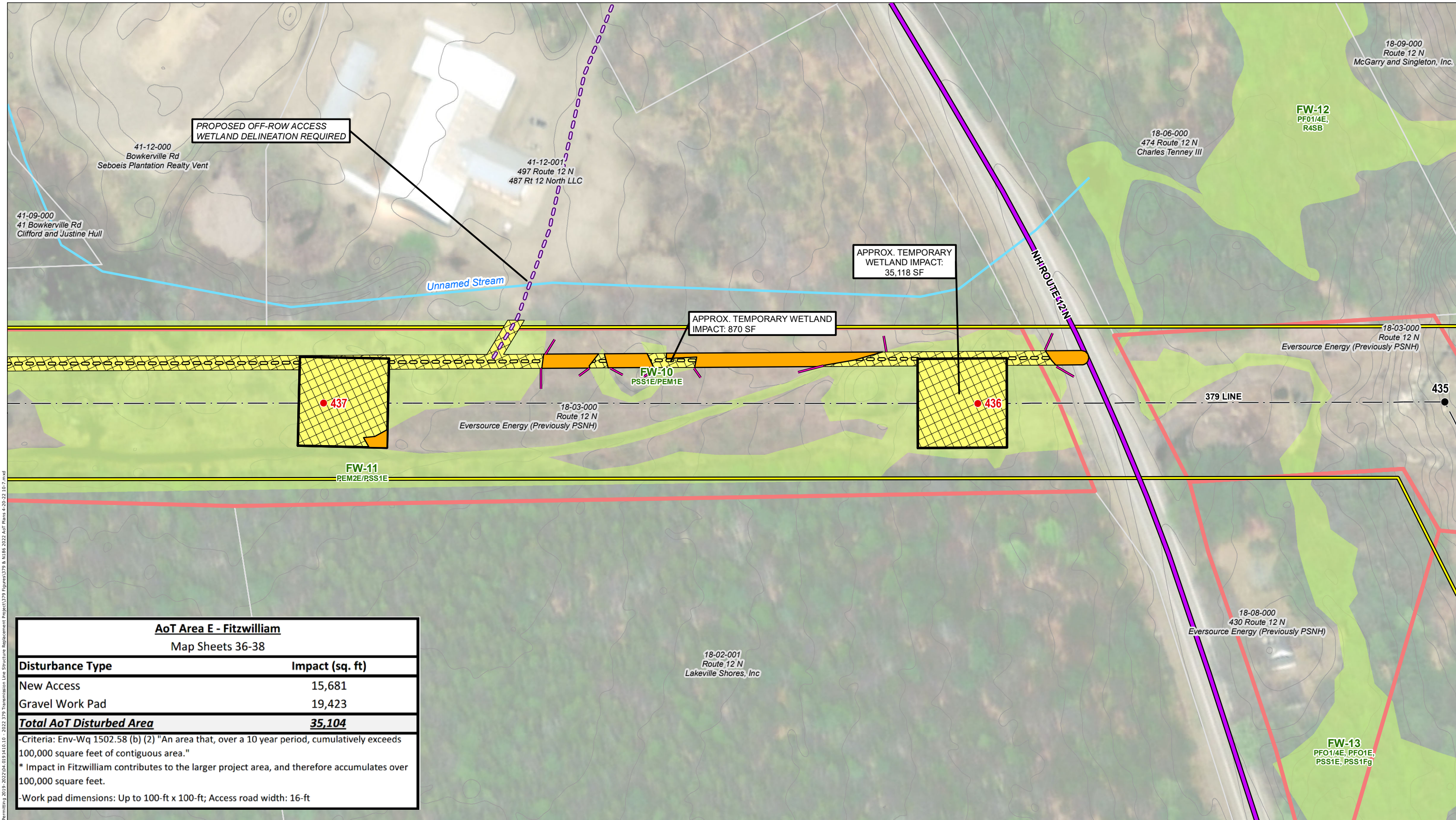
NO.	DATE	REVISIONS

EVSOURCE ENERGY

2022 379 & N186 Transmission Line Structure Replacement Project
Alteration of Terrain Permitting Plans

Fitzwilliam, NH	MAP SHEET
Date: May, 2022	37 OF 38
04.0191410.10	

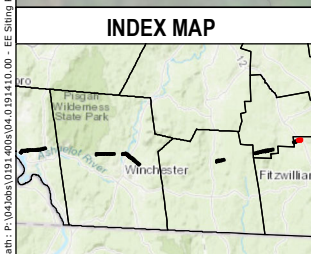
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AoT Area E - Fitzwilliam
Map Sheets 36-38

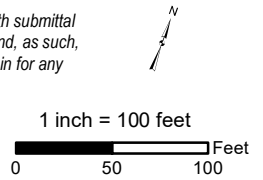
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NO.	DATE	REVISIONS

EVSOURCE ENERGY

2022 379 & N186 Transmission Line Structure Replacement Project Alteration of Terrain Permitting Plans

Fitzwilliam, NH	MAP SHEET
Date: May, 2022	38 OF 38
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Path: P:\Jobs\0191410.10 - 2022\04.0191410.10 - 2022\379 Transmission Line Structure Replacement Project\379 Figures\379 & N186\2022 AoT Plans\20-22_10-7.mxd
 Date: 04/19/2022 10:10:10 AM

© 2022 - GZA GeoEnvironmental, Inc. P:\04\Jobs\0191410\00 - EE Siting Permitting 2019-2022\04.0191410.10 - 2022 379 Transmission Line Structure Replacement Project\379 Figures\379 Aot Notesheet1 10-7.mxd, 7/7/2022, 7:47:06 AM, lindsey.white

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.
3. WETLAND IMPACTS ASSOCIATED WITH WETLAND CROSSINGS ARE REQUIRED FOR ACCESS BETWEEN STRUCTURES WITHIN THE RIGHT OF WAY.
4. ADEQUATE PRECAUTION SHALL BE EXERCISED TO AVOID SPILLAGE OF FUEL OILS, CHEMICALS, OR SIMILAR SUBSTANCES; NO FUELS, LUBRICANTS, CHEMICALS OR SIMILAR SUBSTANCES SHALL BE STORED BENEATH TREES OR IN THE VICINITY OF ANY WETLANDS, RIVER, STREAM OR OTHER BODY OF WATER; OR IN THE VICINITY OF NATURAL OR MAN-MADE CHANNELS LEADING THERETO. NO POWER EQUIPMENT SHALL BE STORED, MAINTAINED, OR FUELED IN ANY AREA ADJACENT TO A WETLAND, RIVER, STREAM OR OTHER BODY OF WATER.
5. REMOVE COMPLETELY ALL CONTAMINATION FROM ANY SPILLAGE OF CHEMICALS OR PETROLEUM PRODUCT WITH COMPLETE REHABILITATION OF THE AFFECTED AREA.
6. ACCESS ROUTES HAVE BEEN SELECTED TO PREVENT DEGRADATION OF THE RIGHT-OF-WAY AND MINIMIZE ENVIRONMENTAL IMPACT. OPERATIONS SHALL BE CONFINED TO THE SPECIFIED ACCESS ROUTES WITHIN THE PROPOSED WETLAND IMPACT AREA. ACCESS ROUTES SHALL NOT EXCEED A 16 FOOT-WIDTH AND 20 FOOT TOTAL IMPACT AREA.
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 AND ROCKS SHALL NOT BE REMOVED, AND THERE SHALL BE NO EXCAVATIONS, FILLS OR GRADING DONE ADJACENT TO WETLANDS, UNLESS MINOR EXCAVATIONS IS NEEDED FOR ACCESS.
9. TIMBER MATS WILL BE USED ALONG ACCESS ROUTES WITHIN WETLAND AREAS. THESE MATS ARE CONSTRUCTED OF HEAVY TIMBERS OR COMPOSITE MATERIAL, BOLTED TOGETHER, AND ARE PLACED END-TO-END IN THE WETLAND TO SUPPORT HEAVY EQUIPMENT. ALL SWAMP MATS SHALL BE PLACED AND REMOVED SO AS NOT TO CAUSE ANY RUTS, CHANNELS OR DEPRESSIONS, OR OTHERWISE CAUSE ANY UNDUE DISTURBANCE TO WETLANDS.
10. IF TIMBER MAT BMP IS NOT SUFFICIENT DUE TO HIGH WATER, ADDITIONAL BMP'S MAY INCLUDE THE PLACEMENT OF GEOTEXTILE FABRIC, 3"-4" STONE, AND GRAVEL TO PROVIDE A SUITABLE ROAD BED. A TEMPORARY CULVERT MAY BE REQUIRED IN AREAS OF HIGH FLOW TO MAINTAIN HYDROLOGIC CONNECTIVITY. ALL MATERIAL WILL BE REMOVED FROM JURISDICTIONAL AREAS AFTER CONSTRUCTION COMPLETION.
11. NO MATERIAL SHALL BE PLACED IN ANY LOCATION OR IN ANY MANNER SO AS TO IMPAIR SURFACE WATER FLOW INTO, THROUGH OR OUT OF ANY WETLAND AREA. NO INSTALLATION SHALL CREATE AN IMPOUNDMENT THAT WILL IMPEDE THE FLOW OF WATER OR CAUSE FLOODING.
12. NO MATERIAL SHALL BE TAKEN FROM THE WETLANDS AREA EXCEPT THAT WHICH MUST NECESSARILY BE REMOVED FOR THE STRUCTURE OR FOUNDATION PLACEMENT OR STABILIZATION. ALL EXCESS MATERIAL TAKEN FROM THE WETLAND WILL BE REMOVED FROM THE SITE.
13. ANY PROPOSED SUPPORT FILLS SHALL BE CLEAN GRAVEL AND STONE, FREE OF WASTE METAL PRODUCTS, ORGANIC MATERIALS AND SIMILAR DEBRIS AND SHALL NOT EXCEED THE AMOUNT PERMITTED. THIS ALLOWABLE FILL IS THE ONLY FILL THAT MAY REMAIN IN THE WETLAND AFTER CONSTRUCTION. ALL CUT AND FILLS SLOPES SHALL BE SEEDED/LOAMED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
14. EXCESS SOILS PRODUCED FROM DRILLING WILL BE DISPOSED IN APPROVED UPLAND AREAS AT A MINIMUM DISTANCE OF 100-FT FROM WETLAND AREAS.
15. INSTALL NEW POLES IN THE LOCATIONS DESIGNATED ON THE PERMITTING PLANS.
16. CABLE INSTALLATION WILL BE PERFORMED IN A MANNER SO AS TO AVOID, OR LIMIT TO THE MAXIMUM EXTENT POSSIBLE, TRAVERSING WETLANDS WITH HEAVY EQUIPMENT. IN SOME CASES, A HELICOPTER MAY BE USED DURING THE INSTALLATION TO MINIMIZE IMPACTS.
17. ALL TIMBER MATS, MATERIAL, AND DEBRIS WILL BE REMOVED FROM THE WORK AREA UPON THE COMPLETION OF CONSTRUCTION.
18. UPLAND DISTURBED AREAS SHALL BE RESTORED AND STABILIZED UPON COMPLETION OF CONSTRUCTION. WORK PAD RESTORATION SHOULD INCLUDE REDUCING THE WORK PAD TO A 30 BY 60 FOOT AREA, AND REDUCING SLOPES TO A MAXIMUM OF 25%. STOCKPILED MATERIAL SHOULD BE SPREAD TO REDUCE ANY UNNECESSARY SLOPES. GRAVEL WORK PADS AND SLOPES SHOULD BE SCARIFIED TO A MINIMUM OF 3" BEFORE SPREADING TOPSOIL/LOAM AND SEED, AS NECESSARY.
19. ALL TEMPORARY WETLAND IMPACTS WILL BE RE-GRADED TO ORIGINAL CONTOURS FOLLOWING CONSTRUCTION. NEW ENGLAND EROSION CONTROL/RESTORATION MIX, AVAILABLE THROUGH NEW ENGLAND WETLAND PLANTS, INC., 820 WEST STREET, AMHERST, MA 01002, 413-548-8000, OR EQUIVALENT SEED MIX SHALL BE APPLIED IN WETLAND AREAS THAT ARE NOT INUNDATED, AS NECESSARY.
20. SEDIMENT AND EROSION CONTROL MEASURES WILL BE EVALUATED AND REMOVED IF NECESSARY UPON THE COMPLETION OF CONSTRUCTION.
21. COMMERCIAL LOAM WILL NOT BE USED AS PART OF RESTORATION. ONLY IN-SITU TOPSOIL WILL BE USED TO RESTORE DISTURBED AREAS.

WINTER CONSTRUCTION NOTES

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

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).

GENERAL NOTES:

OWNER: EVERSOURCE ENERGY
13 LEGENDS DRIVE
HOOKSETT, NH 03106

1. BASE PLAN PROVIDED BY EVERSOURCE ENERGY. EVERSOURCE ENERGY PROVIDED THE UTILITY DESIGN.
2. JURISDICTIONAL WETLANDS WERE DELINEATED BY GZA IN 2016 AND CONFIRMED IN 2022, IN ACCORDANCE WITH THE 1987 U.S. ARMY CORPS OF ENGINEERS' "WETLANDS DELINEATION MANUAL, TECHNICAL REPORT Y-87-1," AND REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTH CENTRAL AND NORTHEAST REGION," JANUARY 2012.
3. GZA EVALUATED WETLANDS AS POTENTIAL VERNAL POOLS IN 2016 AND 2022 IN ACORDANCE WITH "IDENTIFICATION AND DOCUMENTATION OF VERNAL POOLS IN NEW HAMPSHIRE," 2016, NEW HAMPSHIRE FISH AND GAME DEPARTMENT, NONGAME AND ENDANGERED WILDLIFE PROGRAM.
4. GZA WILL PERFORM A WETLANDS FUNCTION AND VALUES ASSESSMENT IN ACCORDANCE WITH THE ACOE'S "HIGHWAY METHODOLOGY WORKBOOK SUPPLEMENT," SEPTEMBER 1999, IN 2020, AS NECESSARY.
5. SITE PLAN IS FOR PERMITTING PURPOSES ONLY AND DOES NOT REPRESENT A PROPERTY BOUNDARY SURVEY.
6. THE PROJECT WILL BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.
7. IN ACCORANCE WITH ENV-WQ 1505.02, THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCEED 5 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
 - A MINIMUM 85 PERCENT VEGETATED GROWTH HAS BEEN ESTABLISHED
 - A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL HAS BEEN INSTALLED
 - OR, EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

EROSION CONTROL NOTES:

1. INSTALLATION OF EROSION CONTROL GRINDINGS AND/OR SILT FENCES SHALL BE COMPLETE PRIOR TO THE START OF WORK IN ANY GIVEN AREA. EROSION CONTROLS SHALL BE USED DURING CONSTRUCTION AND REMOVED WHEN ALL SLOPES HAVE A HEALTHY STAND OF VEGETATION COVER. EROSION CONTROL MEASURES SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER .25" OR GREATER RAINFALL EVENTS.
2. AS REQUIRED, CONSTRUCT TEMPORARY BERMS, SILTATION FENCES, SEDIMENT TRAPS, ETC. TO PREVENT EROSION & SEDIMENTATION OF WETLANDS.
3. THE WORK AREA SHALL BE GRADED AND OTHERWISE SHAPED IN SUCH A MANNER AS TO MINIMIZE SOIL EROSION, SILTATION OF DRAINAGE CHANNELS, DAMAGE TO EXISTING VEGETATION, AND DAMAGE TO PROPERTY OUTSIDE LIMITS OF THE WORK AREA. EROSION CONTROL GRINDINGS WILL BE NECESSARY TO ACCOMPLISH THIS END.
4. ANY STRIPPED TOPSOIL SHALL BE STOCKPILED, WITHOUT COMPACTION, AND STABILIZED AGAINST EROSION, AS NECESSARY.
5. PERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS. WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 15 TO SEPTEMBER 15. NO DISTURBED AREA SHALL BE LEFT EXPOSED DURING WINTER MONTHS, PLANT ANNUAL RYEGRASS PRIOR TO OCTOBER 15TH.
6. EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER EVERY HALF-INCH OF RAINFALL.

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.

**379 & N186 TRANSMISSION LINE
STRUCTURE REPLACEMENT PROJECT**

HINSDALE, WINCHESTER, RICHMOND, TROY,
AND FITZWILLIAM, NEW HAMPSHIRE

NOTES

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: 	
PROJ MGR: LEW	REVIEWED BY: TLT	CHECKED BY: DMZ	SHEET
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	S1
DATE: 07/07/2022	PROJECT NO: 04.0191410.10	REVISION NO.	

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Best Management Practices (BMP's) for Straw wattles

Definition and purpose:

Straw wattles are burlap rolls filled with straw that trap sediment and interrupt water flow by reducing slope lengths.

Applications:

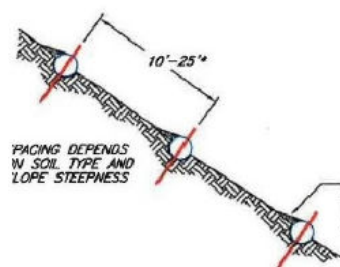
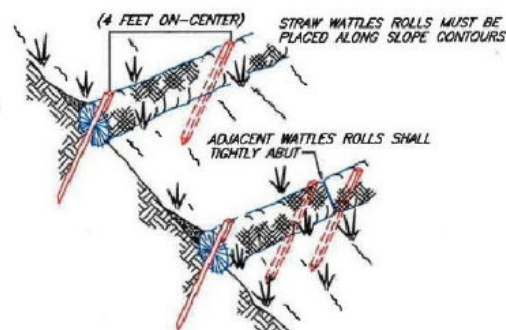
- * Along erodible or unstabilized slopes
- * Spread overland waterflow
- * Trap sediment
- * Around storm drain inlets to slow water and settle out sediment
- * Overlap ends approximately 6 inches

Installation:

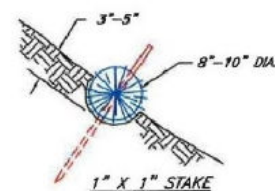
Straw wattles are installed parallel to slope contours and perpendicular to sheet flow.

Spacing* - Dependent on slope length, soil steepness and soil type (general range 10 - 25').

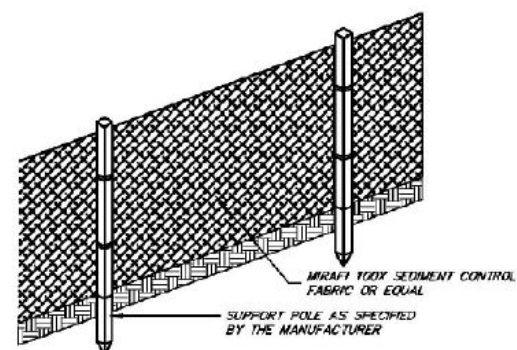
Trenching - 2"-5" inch trench
Stacking - at each end and four foot on center (i.e. 25 foot wattle uses 6 stacks)



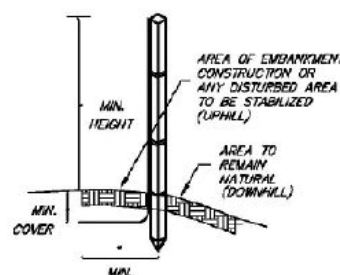
SEDIMENT, ORGANIC MATTER, AND NATIVE SEEDS ARE CAPTURED BEHIND THE WATTLE ROWS.



NOT TO SCALE



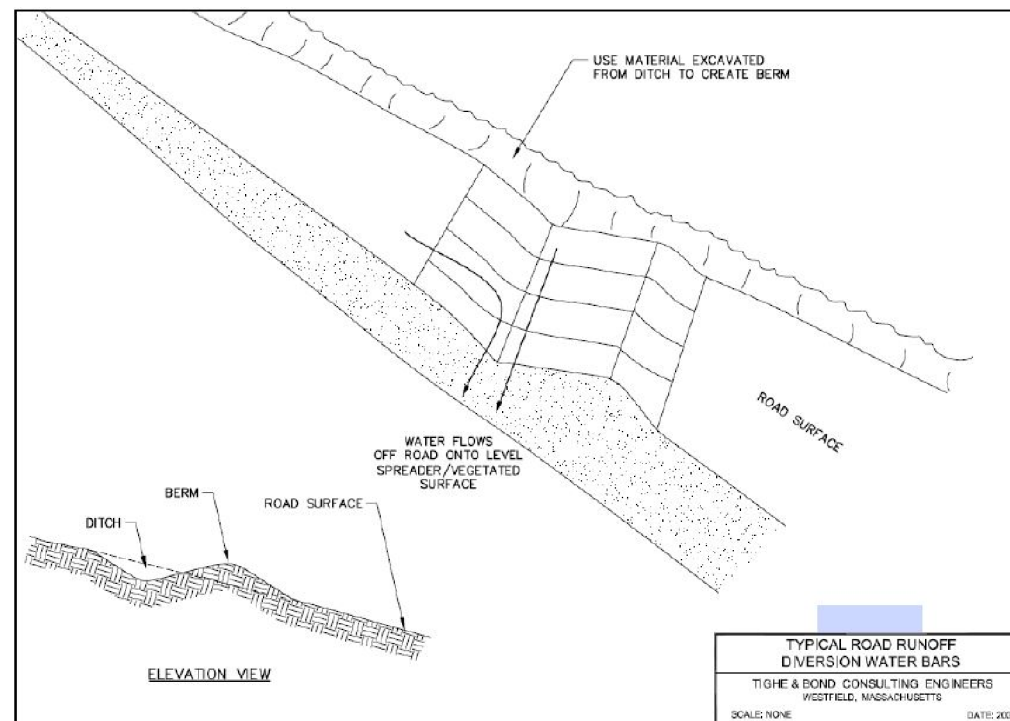
FRONT VIEW



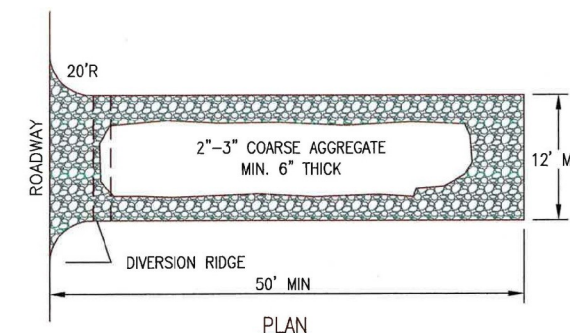
SIDE VIEW

NOTES (SILT FENCE)

1. THE HEIGHT OF THE BARRIER SHALL NOT EXCEED 36 INCHES.
2. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPliced TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP, AND SECURELY SEALED. SEE MANUFACTURER'S RECOMMENDATIONS.
3. POSTS SHALL BE PLACED AT A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 12 INCHES). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL BE AS MANUFACTURER RECOMMENDS.
4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 6 INCHES WIDE AND 6 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE OF THE BARRIER IN ACCORDANCE WITH RECOMMENDATIONS
5. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE, AND WILL EXTEND A MINIMUM OF 8 INCHES INTO THE TRENCH. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
6. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.
7. FABRIC BARRIERS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
8. FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST ONCE DAILY DURING PROLONGED RAINFALL AND ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
9. SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
10. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
11. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.



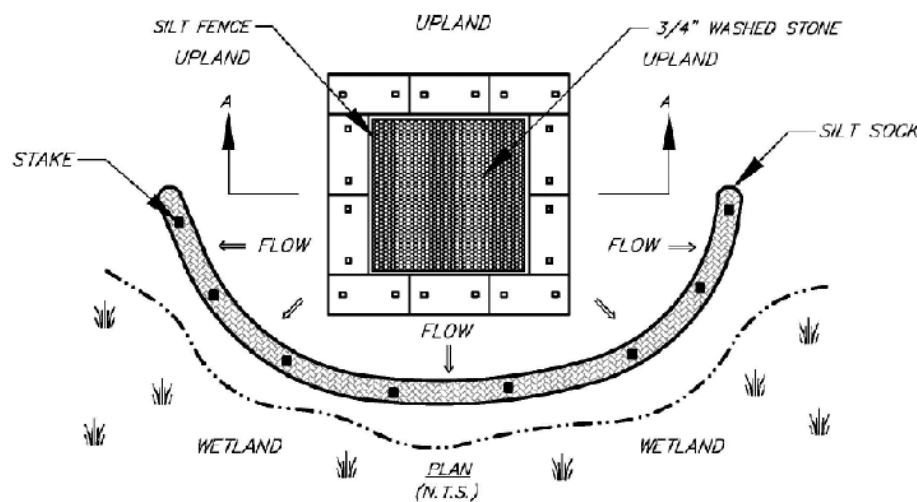
TYPICAL ROAD RUNOFF DIVERSION WATER BARS
TIGHE & BOND CONSULTING ENGINEERS
WESTFIELD, MASSACHUSETTS
SCALE: NONE DATE: 2007



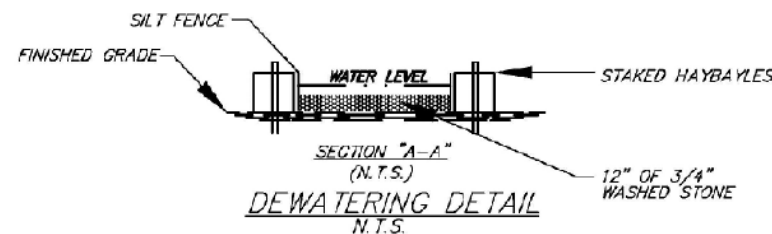
- NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
 2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.

CONSTRUCTION ENTRANCE

NOT TO SCALE



PLAN (N.T.S.)



SECTION "A-A" (N.T.S.)
DEWATERING DETAIL
N.T.S.

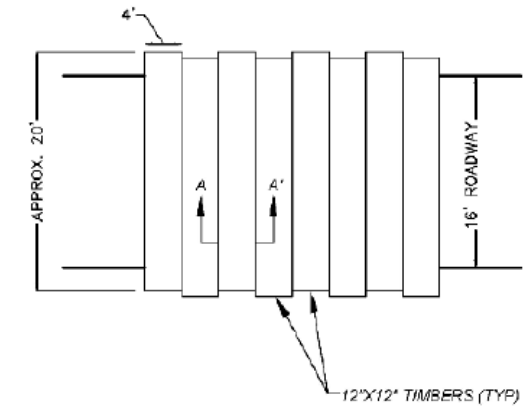
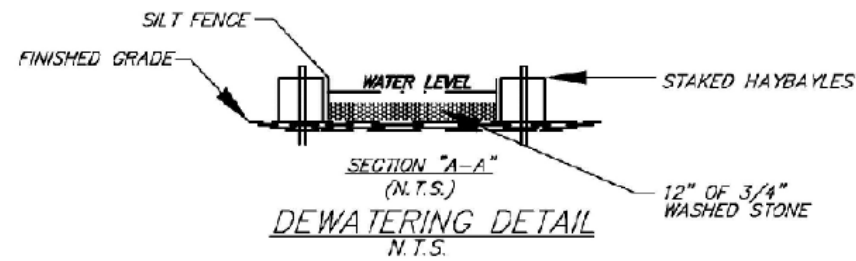
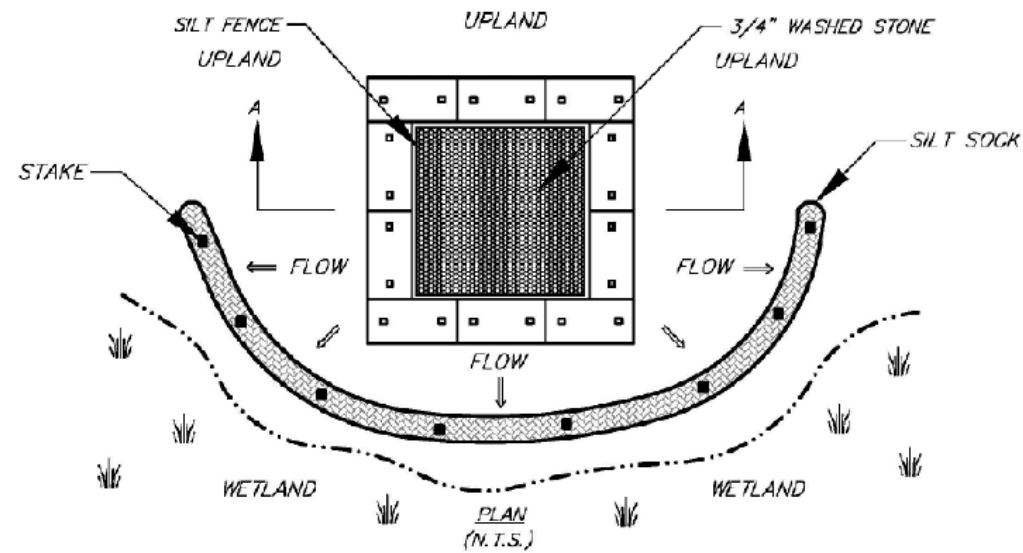
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379 & N186 TRANSMISSION LINE
STRUCTURE REPLACEMENT PROJECT
HINSDALE, WINCHESTER, RICHMOND, TROY,
AND FITZWILLIAM, NEW HAMPSHIRE

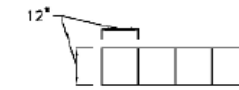
BMP DETAILS

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: EVERSOURCE ENERGY	
PROJ MGR: CEM	REVIEWED BY: TLT	CHECKED BY: DMZ	SHEET
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	S2
DATE: 04/28/2022	PROJECT NO: 04.0191410.10	REVISION NO:	

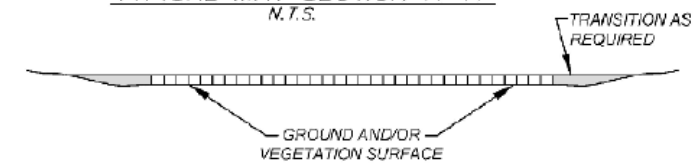
© 2022 - GZA GeoEnvironmental, Inc. P:\04\Jobs\0191410\00 - EE Siting Permitting 2019-2022\04.0191410.10 - 2022 379 Transmission Line Structure Replacement Project\379 Figures\379 AOT Notesheet 3 10-7.mxd, 4/28/2022, 1:06:28 PM, lindsey.white



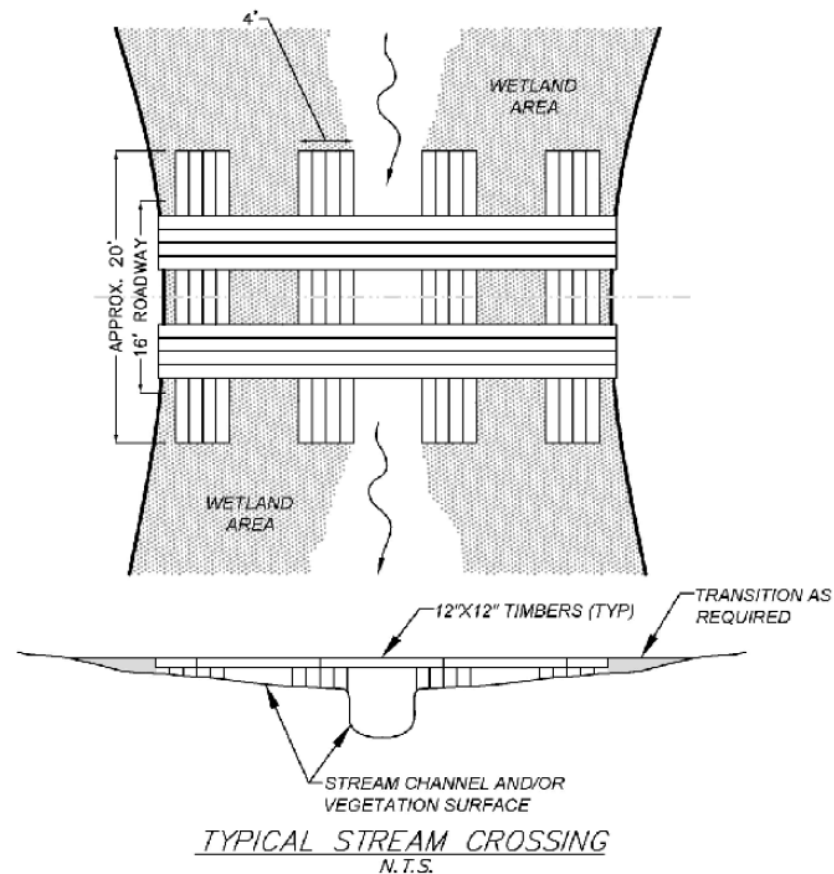
TYPICAL SWAMP MAT PLAN VIEW
N.T.S.



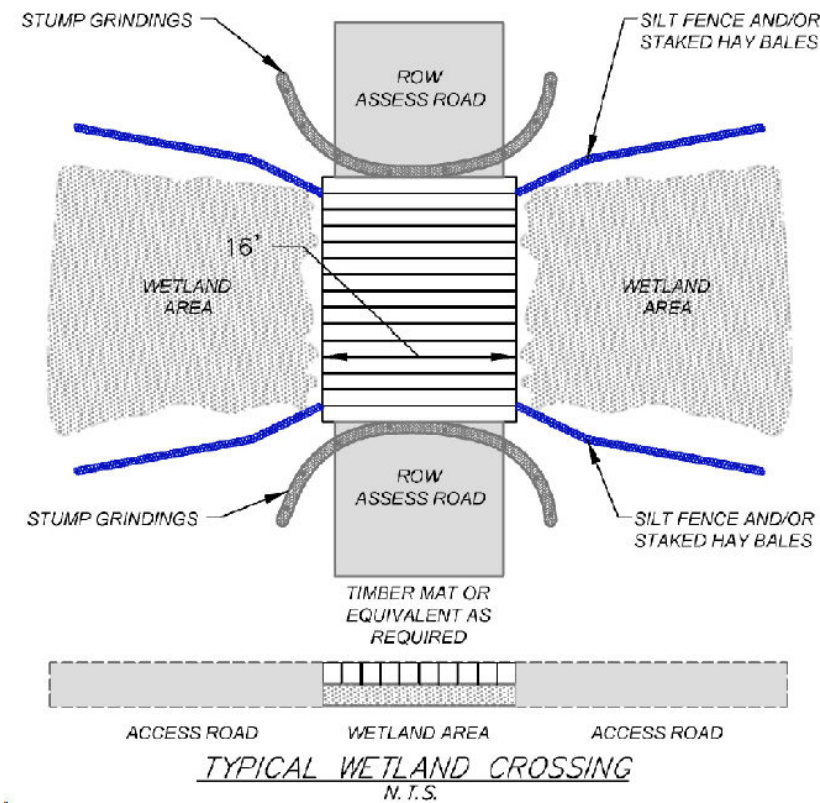
TYPICAL MAT SECTION A-A
N.T.S.



TYPICAL SWAMP MAT SECTION DETAIL
N.T.S.



TYPICAL STREAM CROSSING
N.T.S.



TYPICAL WETLAND CROSSING
N.T.S.

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379 & N186 TRANSMISSION LINE
STRUCTURE REPLACEMENT PROJECT
HINSDALE, WINCHESTER, RICHMOND, TROY,
AND FITZWILLIAM, NEW HAMPSHIRE

BMP DETAILS

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
EVERSOURCE
ENERGY

PROJ MGR: LEW
DESIGNED BY: MJD
DATE: 04/28/2022

REVIEWED BY: TLT
DRAWN BY: MJD
PROJECT NO: 04.0191410.10

CHECKED BY: DMZ
SCALE:
REVISION NO.

SHEET
S3

© 2022 - GZA GeoEnvironmental, Inc. P:\04.Jobs\0191410.00 - EE Siting Permitting 2019-2022\04.0191410.10 - 2022 379 Transmission Line Structure Replacement Project\379 Figures\379 Notesheet 1 NHFG Review.mxd, 6/30/2022, 12:46:39 PM, lindsay.white

NOTES

1. NORTHERN BLACK RACER (STATE THREATENED), SPOTTED TURTLE (STATE THREATENED), AND BLANDING'S TURTLE (STATE ENDANGERED) 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.
2. VERNAL POOLS AND POTENTIAL VERNAL POOLS SHALL BE FLAGGED PRIOR TO WORK AND ALL IMPACTS TO VERNAL POOLS AND POTENTIAL VERNAL POOLS SHALL BE AVOIDED.
3. TURTLES MAY BE ATTRACTED TO DISTURBED GROUND DURING NESTING SEASON (MAY 15TH – JUNE 30TH). ALL TURTLE SPECIES NESTS ARE PROTECTED BY NH LAWS. 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.
4. OBSERVATIONS OF NORTHERN BLACK RACERS IN THE MONTHS OF APRIL-MAY AND SEPTEMBER-OCTOBER MAY INDICATE THE POTENTIAL FOR A DEN SITE ON OR NEAR THE PROJECT SITE. OBSERVATIONS OF THIS SPECIES DURING THIS TIMEFRAME SHALL BE REPORTED IMMEDIATELY TO THE NEW HAMPSHIRE FISH AND GAME DEPARTMENT NONGAME AND ENDANGERED WILDLIFE ENVIRONMENTAL REVIEW PROGRAM. PLEASE CONTACT MELISSA DOPERLSKI (603-479-1129) OR BRENDAN CLIFFORD (603-944-0885). OBSERVATIONS OF THIS SPECIES OUTSIDE OF THIS TIMEFRAME CAN FOLLOW GENERAL REPORTING GUIDANCE. PLEASE INCLUDE PHOTOGRAPH WITH TEXT IF FEASIBLE.
5. AT THE CONCLUSION OF THE PROJECT, A SUMMARY REPORT OF ANY RARE SPECIES OBSERVATIONS SHALL BE PROVIDED TO THE NHFG NONGAME PROGRAM.
6. 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;
7. 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;
8. 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;
9. 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.
10. SITE OPERATORS 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.
11. THE NHFG, INCLUDING ITS EMPLOYEES AND AUTHORIZED AGENTS, SHALL HAVE ACCESS TO THE PROPERTY DURING THE TERM OF THE PERMIT.

NORTHERN BLACK RACER (COLUBER CONSTRICTOR)

STATE THREATENED



NORTHERN BLACK RACER IDENTIFICATION

1. SOLID BLACK WITH A WHITE THROAT.
2. SLENDER WITH GLOSSY SCLAES.
3. 3-6 FT. LONG.
4. HATCHLINGS ARE VERY SMALL AND PATTERNED.



SPOTTED TURTLE (CLEMYS GUTTATA)

STATE THREATENED



SPOTTED TURTLE IDENTIFICATION

1. SMALL, MOSTLY AQUATIC WITH BLACK OR DARK BROWN WITH YELLOW SPOTS.
2. FAIRLY FLAT SHELL COMPARED TO BLANDING'S TURTLE.
3. SPOTS VARY IN COLOR AND NUMBER.

BLANDING'S TURTLE (EMYDOIDEA BLANDINGII)

STATE ENDANGERED



BLANDING'S TURTLE IDENTIFICATION

1. LARGE, DARK/BLACK DOMED SHELL WITH LIGHTER SPECKLES.
2. DISTINCT YELLOW THROAT/CHIN.
3. AQUATIC BUT OFTEN MOVES ON LAND.

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AND WINCHESTER, NEW HAMPSHIRE

WILDLIFE NOTES

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: 	
PROJ MGR: LEW	REVIEWED BY: TLT	CHECKED BY: DMZ	SHEET S4
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	
DATE: 06/30/2022	PROJECT NO: 04.0191410.10	REVISION NO:	

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