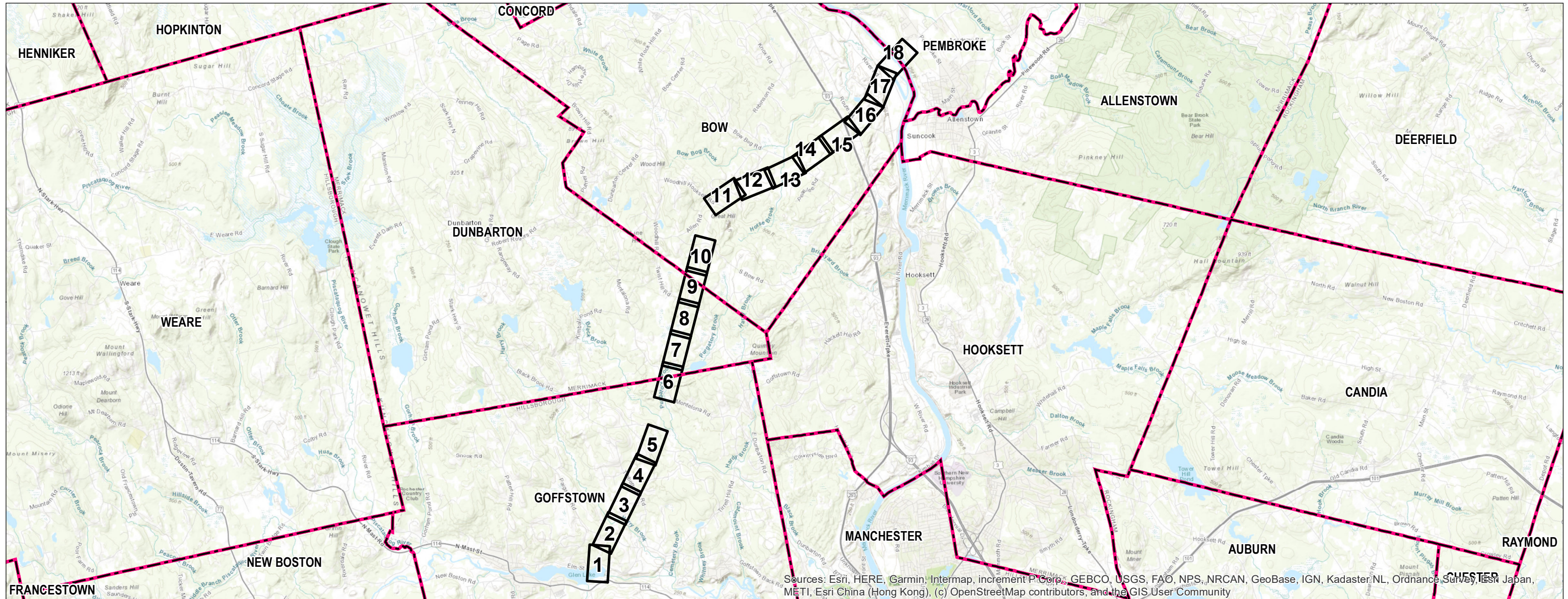


# C196 & Q171 Transmission Line - Structure Replacement Project

GOFFSTOWN, DUNBARTON, AND BOW, NEW HAMPSHIRE

Alteration of Terrain Water Resources Planset

Date: June 28, 2022

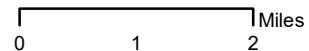


Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster/NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

PREPARED FOR:



13 Legends Drive  
Hooksett, NH 03106



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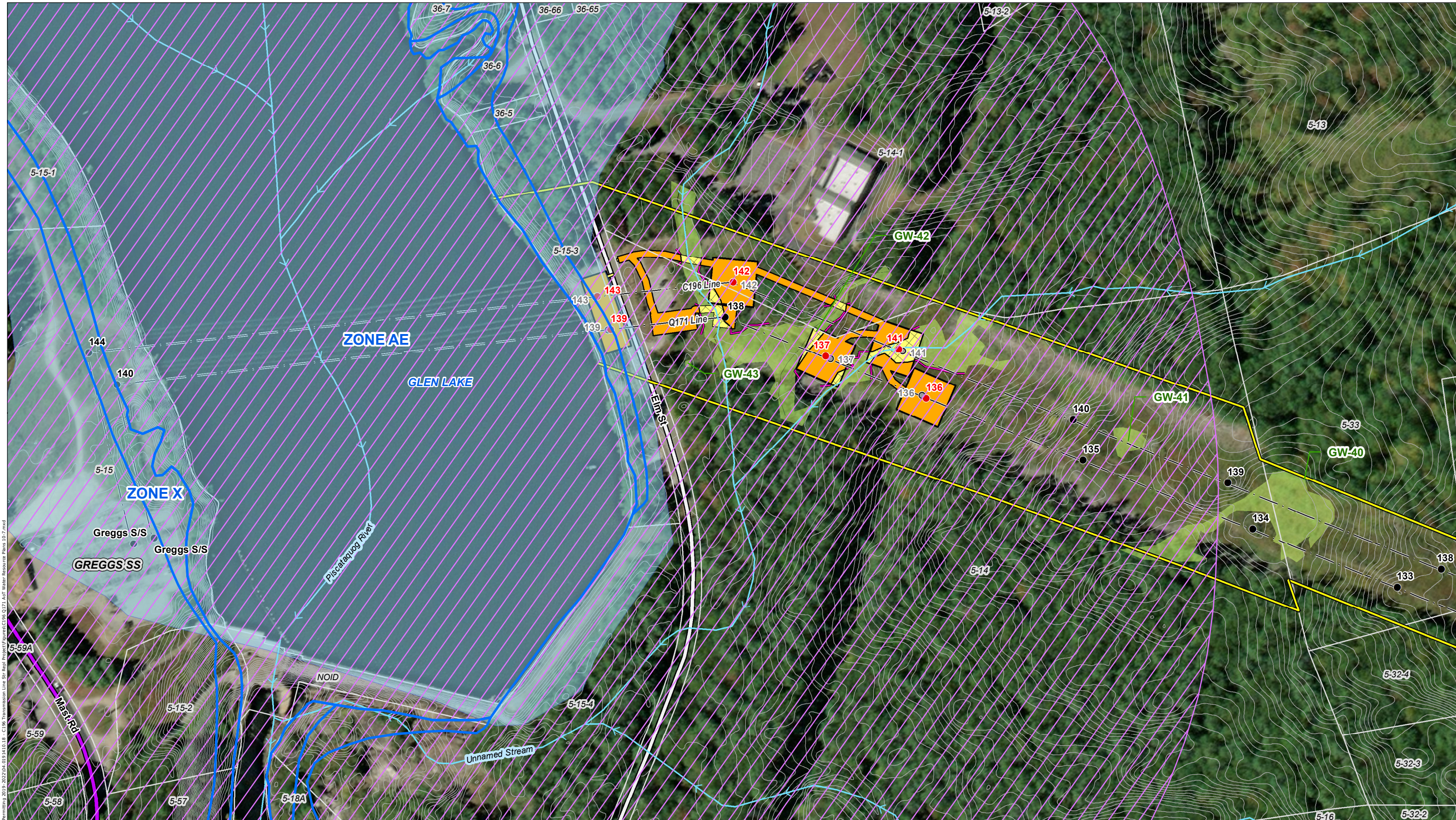
NO.	DATE	REVISIONS

PREPARED BY:



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



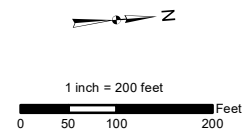


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NO.	DATE	REVISIONS

**EVERSOURCE ENERGY**

**C196 and Q171 Transmission Line Structure Replacement Project**

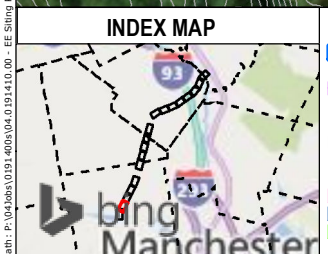
**Surface and Groundwater Overlay Plans**

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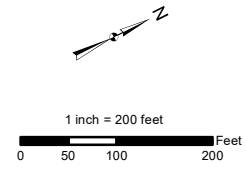


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**C196 and Q171 Transmission Line Structure Replacement Project**  
**Surface and Groundwater Overlay Plans**

Goffstown, NH      MAP SHEET

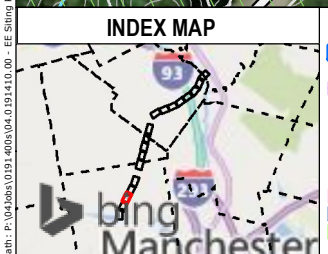
Date: June, 2022

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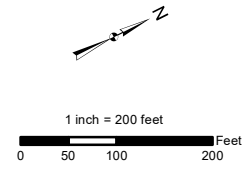


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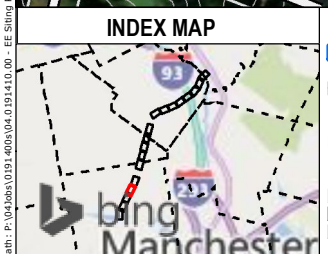
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Date: June, 2022	<b>3 OF 18</b>



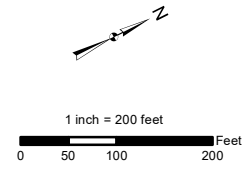


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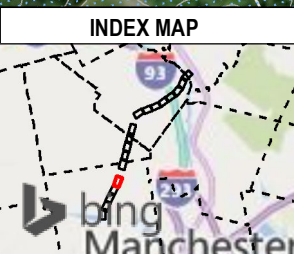
**Surface and Groundwater Overlay Plans**

Goffstown, NH	MAP SHEET
Date: June, 2022	4 OF 18



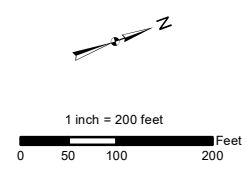


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Goffstown, NH      MAP SHEET

Date: June, 2022

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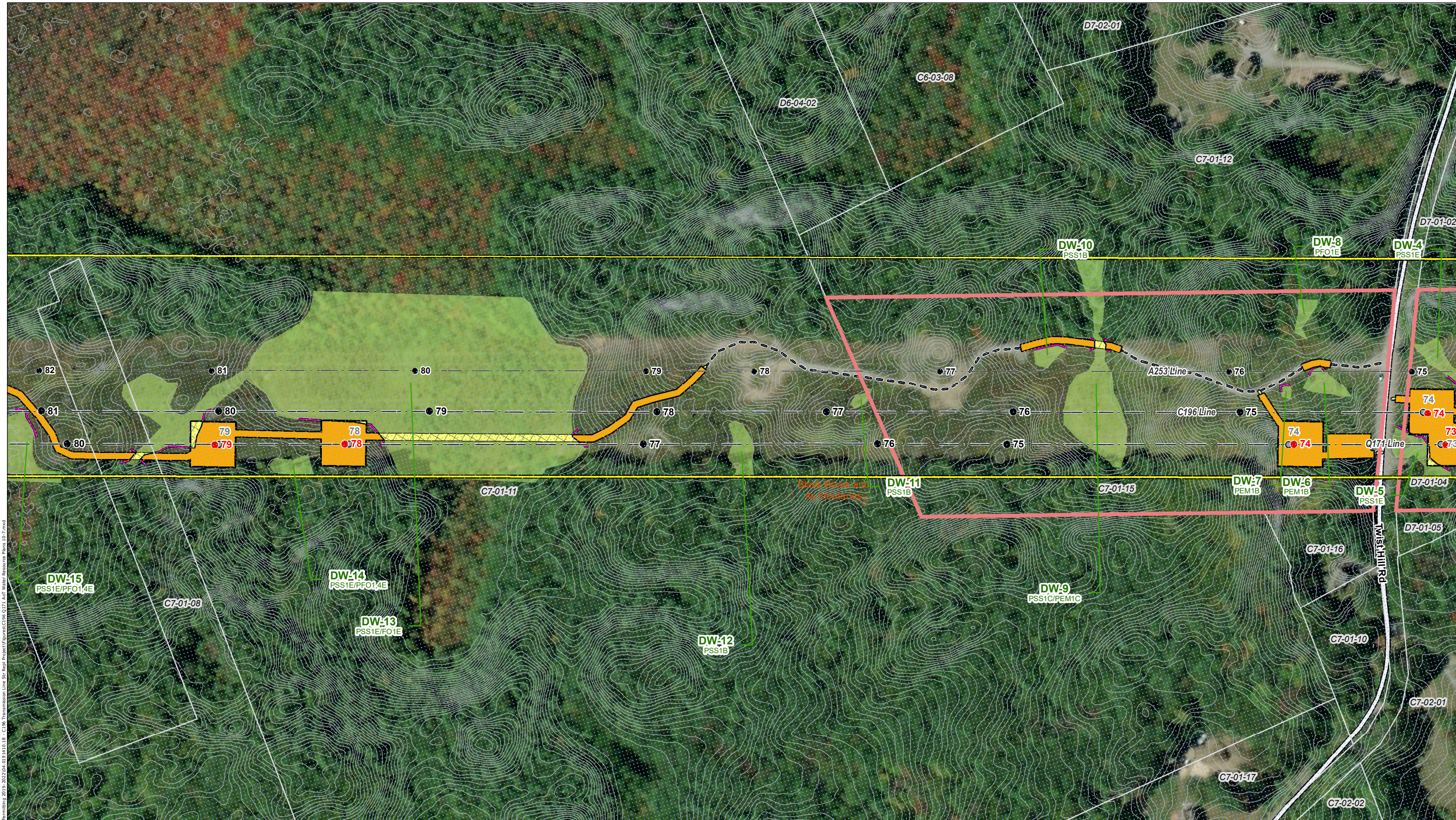










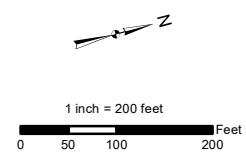


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| <ul style="list-style-type: none"> <li> Local Potential Contamination Sources</li> <li> FEMA Special Flood Hazard Area</li> <li> Outstanding Resource Water (None Present)</li> <li> Designated River Quarter Mile Buffer</li> <li> Wellhead Protection Areas</li> <li> Watersheds with Chloride Impairments 2016</li> <li> Surface Waters with Impairments 2016 with Quarter Mile Buffer</li> <li> Water Supply Intake Protection Areas</li> <li> All Lakes with a Quarter Mile Buffer</li> <li> Groundwater Classification Area GAA (None Present)</li> <li> Groundwater Classification Area GA1 (None Present)</li> <li> Groundwater Classification Areas GA2</li> <li> Class A Surface Waters RSA 485A9</li> </ul> | <ul style="list-style-type: none"> <li> PROPOSED STRUCTURE REPLACEMENT</li> <li> EXISTING STRUCTURE - NO PROPOSED WORK</li> <li> EXISTING STRUCTURE TO BE REPLACED</li> <li> NHD FLOWLINES</li> <li> EXISTING TRANSMISSION LINE</li> <li> APPROXIMATE ROW</li> <li> RAILROAD</li> <li> TEMPORARY UPLAND MATTING</li> <li> PARCEL BOUNDARY</li> <li> EVERSOURCE OWNED PARCEL</li> </ul> | <ul style="list-style-type: none"> <li> Aot IMPACT AREA</li> <li> TEMPORARY WETLAND MATTING</li> <li> PROPOSED ACCESS</li> <li> EXISTING ACCESS</li> <li> OFF-ROW/SECONDARY ACCESS</li> <li> TOWN MAINTAINED ROAD</li> <li> STATE MAINTAINED ROADS</li> <li> PRIVATE ROAD</li> <li> WORK PAD</li> <li> EROSION AND SEDIMENT CONTROL</li> <li> TOWN BOUNDARY</li> <li> 2FT ELEVATION CONTOURS</li> <li> FIELD DELINEATED WETLAND</li> </ul> |
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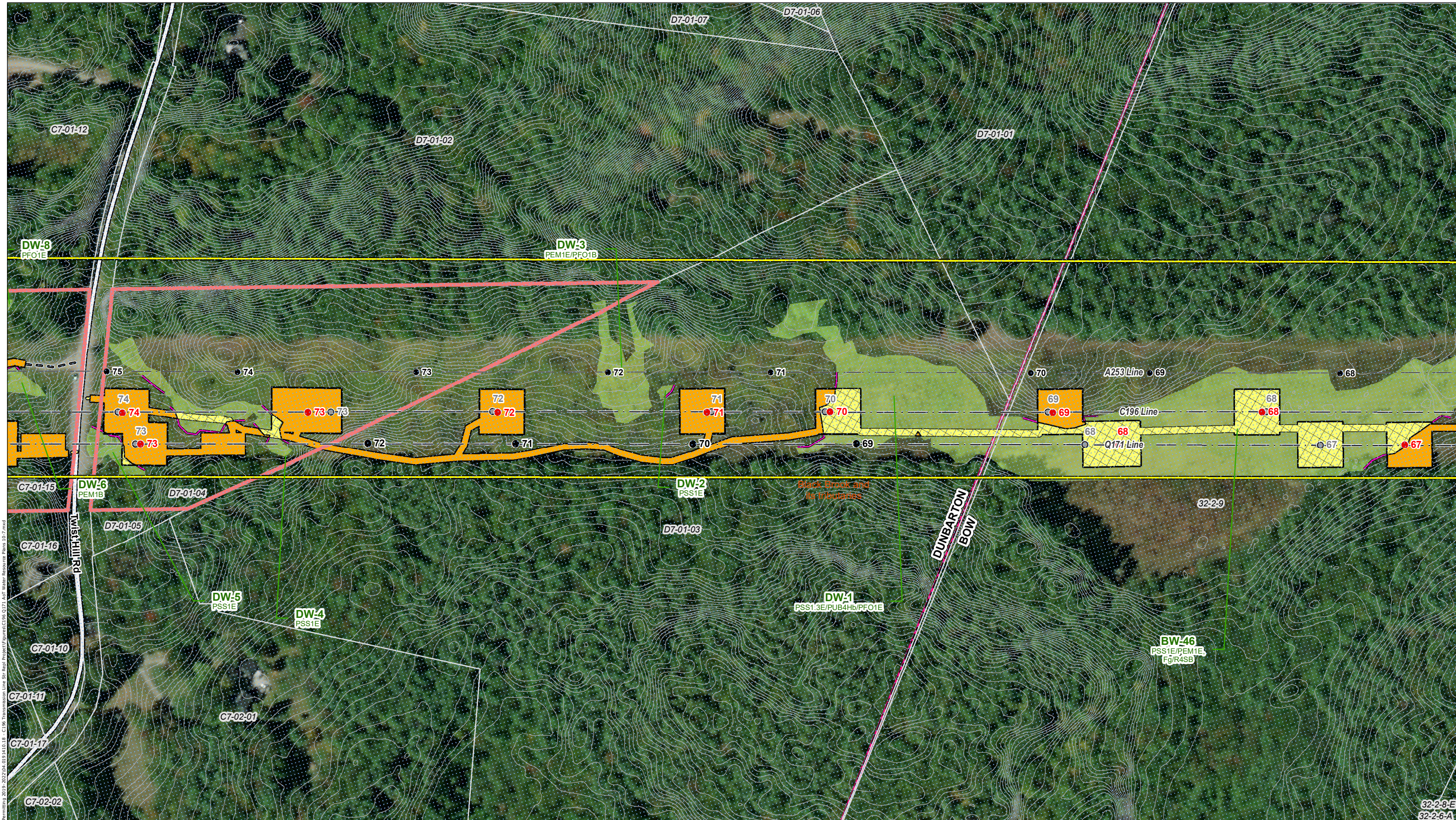
NO.	DATE	REVISIONS

**EVERSOURCE ENERGY**

**C196 and Q171 Transmission Line  
Structure Replacement Project  
Surface and Groundwater Overlay Plans**

Dunbarton, NH	MAP SHEET
Date: June, 2022	<b>8 OF 18</b>



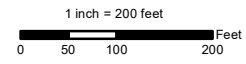


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| <ul style="list-style-type: none"> <li><span style="color: red;">▲</span> Local Potential Contamination Sources</li> <li><span style="border: 1px solid blue; padding: 2px;"> </span> FEMA Special Flood Hazard Area</li> <li><span style="border: 1px solid blue; padding: 2px;"> </span> Outstanding Resource Water (None Present)</li> <li><span style="border: 1px solid blue; padding: 2px;"> </span> Designated River Quarter Mile Buffer</li> <li><span style="border: 1px solid blue; padding: 2px;"> </span> Wellhead Protection Areas</li> <li><span style="border: 1px solid blue; padding: 2px;"> </span> Watersheds with Chloride Impairments 2016</li> <li><span style="border: 1px solid blue; padding: 2px;"> </span> Surface Waters with Impairments 2016 with Quarter Mile Buffer</li> <li><span style="border: 1px solid blue; padding: 2px;"> </span> Water Supply Intake Protection Areas</li> <li><span style="border: 1px solid blue; padding: 2px;"> </span> All Lakes with a Quarter Mile Buffer</li> <li><span style="border: 1px solid blue; padding: 2px;"> </span> Groundwater Classification Area GAA (None Present)</li> <li><span style="border: 1px solid blue; padding: 2px;"> </span> Groundwater Classification Area GA1 (None Present)</li> <li><span style="border: 1px solid blue; padding: 2px;"> </span> Groundwater Classification Areas GA2</li> <li><span style="border: 1px solid blue; padding: 2px;"> </span> Class A Surface Waters RSA 485A9</li> </ul> | <ul style="list-style-type: none"> <li><span style="color: red;">●</span> PROPOSED STRUCTURE REPLACEMENT</li> <li><span style="color: black;">●</span> EXISTING STRUCTURE - NO PROPOSED WORK</li> <li><span style="color: black;">●</span> EXISTING STRUCTURE TO BE REPLACED</li> <li><span style="color: blue;">→</span> NHD FLOWLINES</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> EXISTING TRANSMISSION LINE</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> APPROXIMATE ROW</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> RAILROAD</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> TEMPORARY UPLAND MATTING</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> PARCEL BOUNDARY</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> EVERSOURCE OWNED PARCEL</li> </ul> | <ul style="list-style-type: none"> <li><span style="background-color: yellow; border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></span> AOT IMPACT AREA</li> <li><span style="background-color: yellow; border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></span> TEMPORARY WETLAND MATTING</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> PROPOSED ACCESS</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> EXISTING ACCESS</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> OFF-ROW/SECONDARY ACCESS</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> TOWN MAINTAINED ROAD</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> STATE MAINTAINED ROADS</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> PRIVATE ROAD</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> WORK PAD</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> EROSION AND SEDIMENT CONTROL</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> TOWN BOUNDARY</li> <li><span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> 2FT ELEVATION CONTOURS</li> <li><span style="background-color: lightgreen; border: 1px solid black; width: 20px; height: 10px; display: inline-block;"></span> FIELD DELINEATED WETLAND</li> </ul> |
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NO.	DATE	REVISIONS

**EVERSOURCE ENERGY**

**C196 and Q171 Transmission Line Structure Replacement Project Surface and Groundwater Overlay Plans**

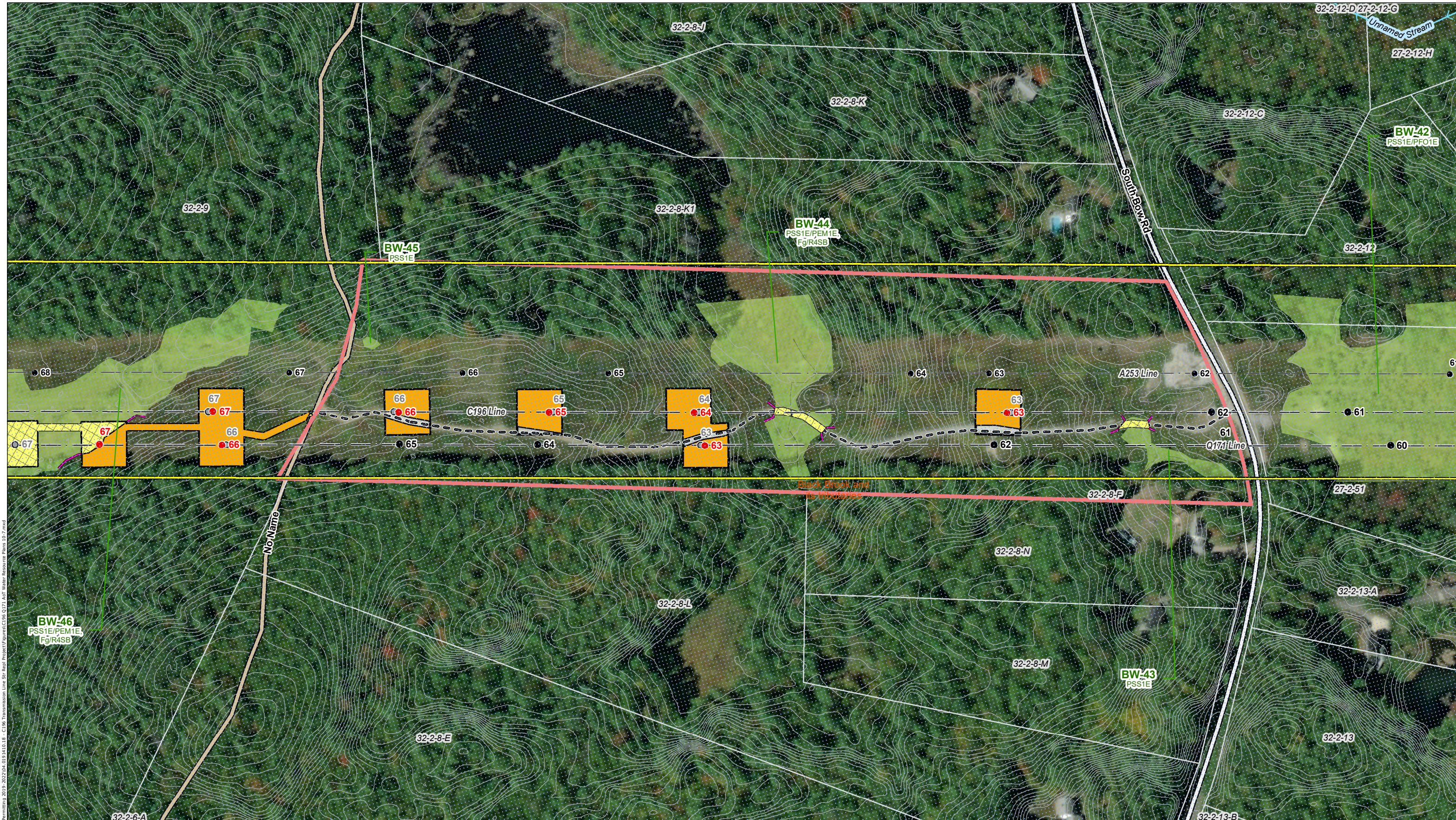
Dunbarton/Bow, NH      MAP SHEET

Date: June, 2022

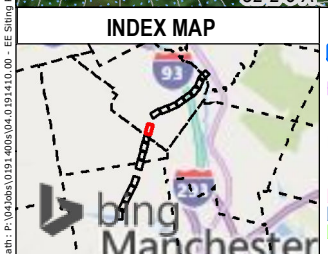
**9 OF 18**

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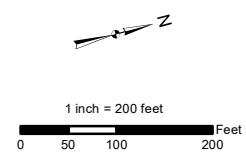


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| <ul style="list-style-type: none"> <li> Local Potential Contamination Sources</li> <li> FEMA Special Flood Hazard Area</li> <li> Outstanding Resource Water (None Present)</li> <li> Designated River Quarter Mile Buffer</li> <li> Wellhead Protection Areas</li> <li> Watersheds with Chloride Impairments 2016</li> <li> Surface Waters with Impairments 2016 with Quarter Mile Buffer</li> <li> Water Supply Intake Protection Areas</li> <li> All Lakes with a Quarter Mile Buffer</li> <li> Groundwater Classification Area GAA (None Present)</li> <li> Groundwater Classification Area GA1 (None Present)</li> <li> Groundwater Classification Areas GA2</li> <li> Class A Surface Waters RSA 485A9</li> </ul> | <ul style="list-style-type: none"> <li> PROPOSED STRUCTURE REPLACEMENT</li> <li> EXISTING STRUCTURE - NO PROPOSED WORK</li> <li> EXISTING STRUCTURE TO BE REPLACED</li> <li> NHD FLOWLINES</li> <li> EXISTING TRANSMISSION LINE</li> <li> APPROXIMATE ROW</li> <li> RAILROAD</li> <li> TEMPORARY UPLAND MATTING</li> <li> PARCEL BOUNDARY</li> <li> EVERSOURCE OWNED PARCEL</li> </ul> | <ul style="list-style-type: none"> <li> AOT IMPACT AREA</li> <li> TEMPORARY WETLAND MATTING</li> <li> PROPOSED ACCESS</li> <li> EXISTING ACCESS</li> <li> OFF-ROW/SECONDARY ACCESS</li> <li> TOWN MAINTAINED ROAD</li> <li> STATE MAINTAINED ROADS</li> <li> PRIVATE ROAD</li> <li> WORK PAD</li> <li> EROSION AND SEDIMENT CONTROL</li> <li> TOWN BOUNDARY</li> <li> 2FT ELEVATION CONTOURS</li> <li> FIELD DELINEATED WETLAND</li> </ul> |
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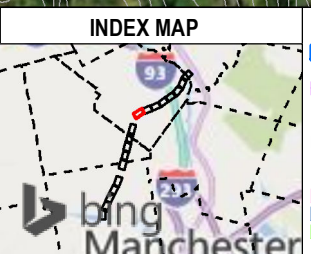
**C196 and Q171 Transmission Line Structure Replacement Project Surface and Groundwater Overlay Plans**

Bow, NH	MAP SHEET
Date: June, 2022	<b>10 OF 18</b>



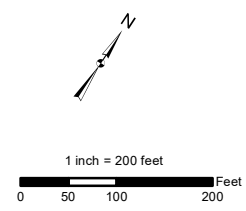


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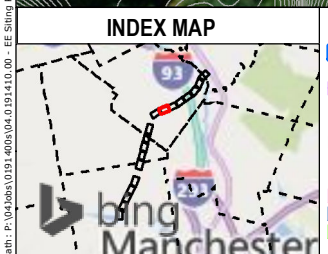
**C196 and Q171 Transmission Line Structure Replacement Project Surface and Groundwater Overlay Plans**

Bow, NH	MAP SHEET
Date: June, 2022	11 OF 18



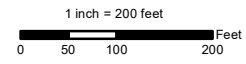


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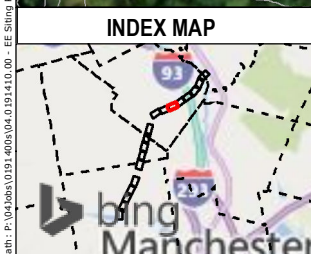
NO.	DATE	REVISIONS

**C196 and Q171 Transmission Line Structure Replacement Project**  
**Surface and Groundwater Overlay Plans**

Bow, NH      MAP SHEET

Date: June, 2022      **12 OF 18**





- PROPOSED STRUCTURE REPLACEMENT
- EXISTING STRUCTURE - NO PROPOSED WORK
- EXISTING STRUCTURE TO BE REPLACED
- NHD FLOWLINES
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1 inch = 200 feet

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NO.	DATE	REVISIONS

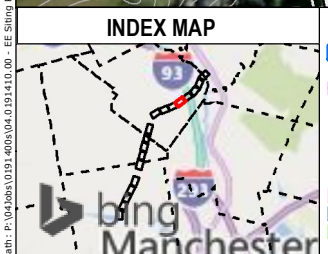
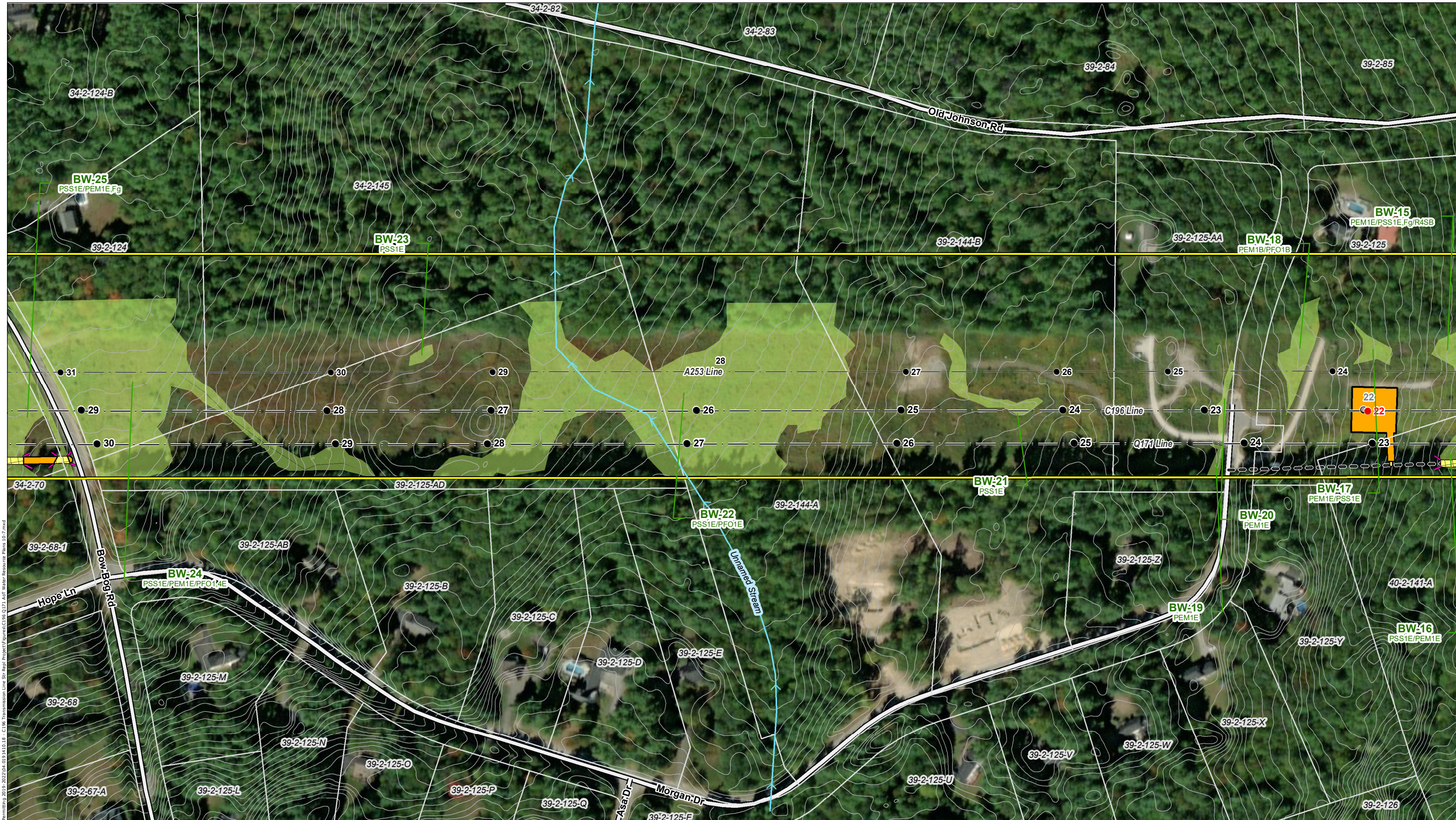
**EVERSOURCE ENERGY**

**C196 and Q171 Transmission Line Structure Replacement Project Surface and Groundwater Overlay Plans**

Bow, NH	MAP SHEET
Date: June, 2022	<b>13 OF 18</b>

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- ▲ Local Potential Contamination Sources
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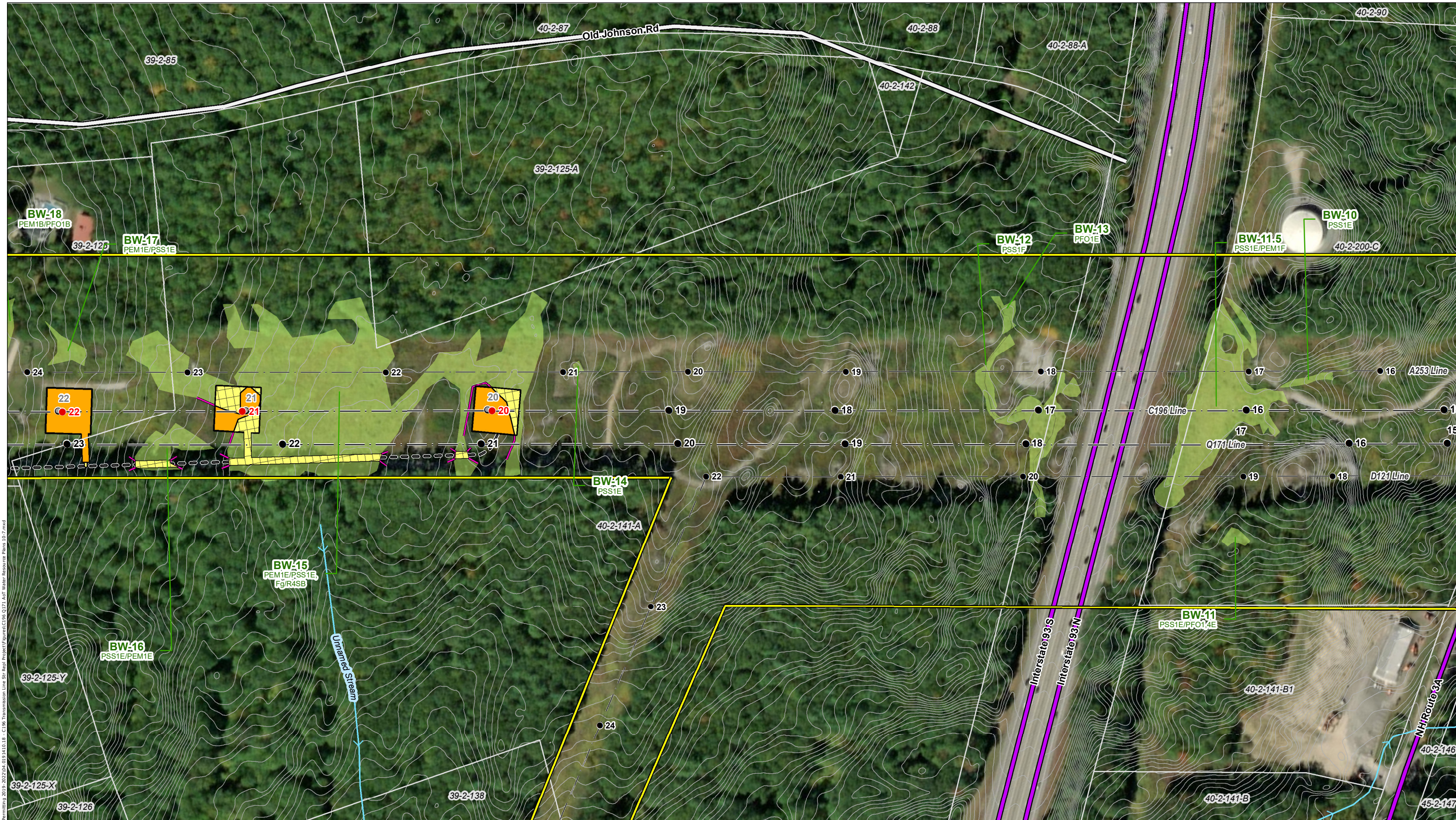
**C196 and Q171 Transmission Line Structure Replacement Project**

**Surface and Groundwater Overlay Plans**

Bow, NH	MAP SHEET
Date: June, 2022	14 OF 18

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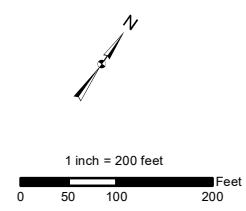


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NO.	DATE	REVISIONS

**EVERSOURCE ENERGY**

**C196 and Q171 Transmission Line Structure Replacement Project**

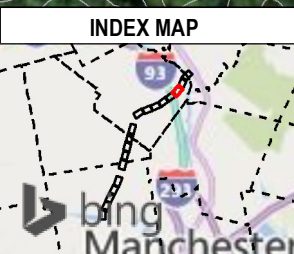
**Surface and Groundwater Overlay Plans**

Bow, NH	MAP SHEET
Date: June, 2022	15 OF 18





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1 inch = 200 feet

NO.	DATE	REVISIONS

**EVERSOURCE ENERGY**

**C196 and Q171 Transmission Line Structure Replacement Project Surface and Groundwater Overlay Plans**

Bow, NH      MAP SHEET

Date: June, 2022      **16 OF 18**





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**INDEX MAP**

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- Designated River Quarter Mile Buffer
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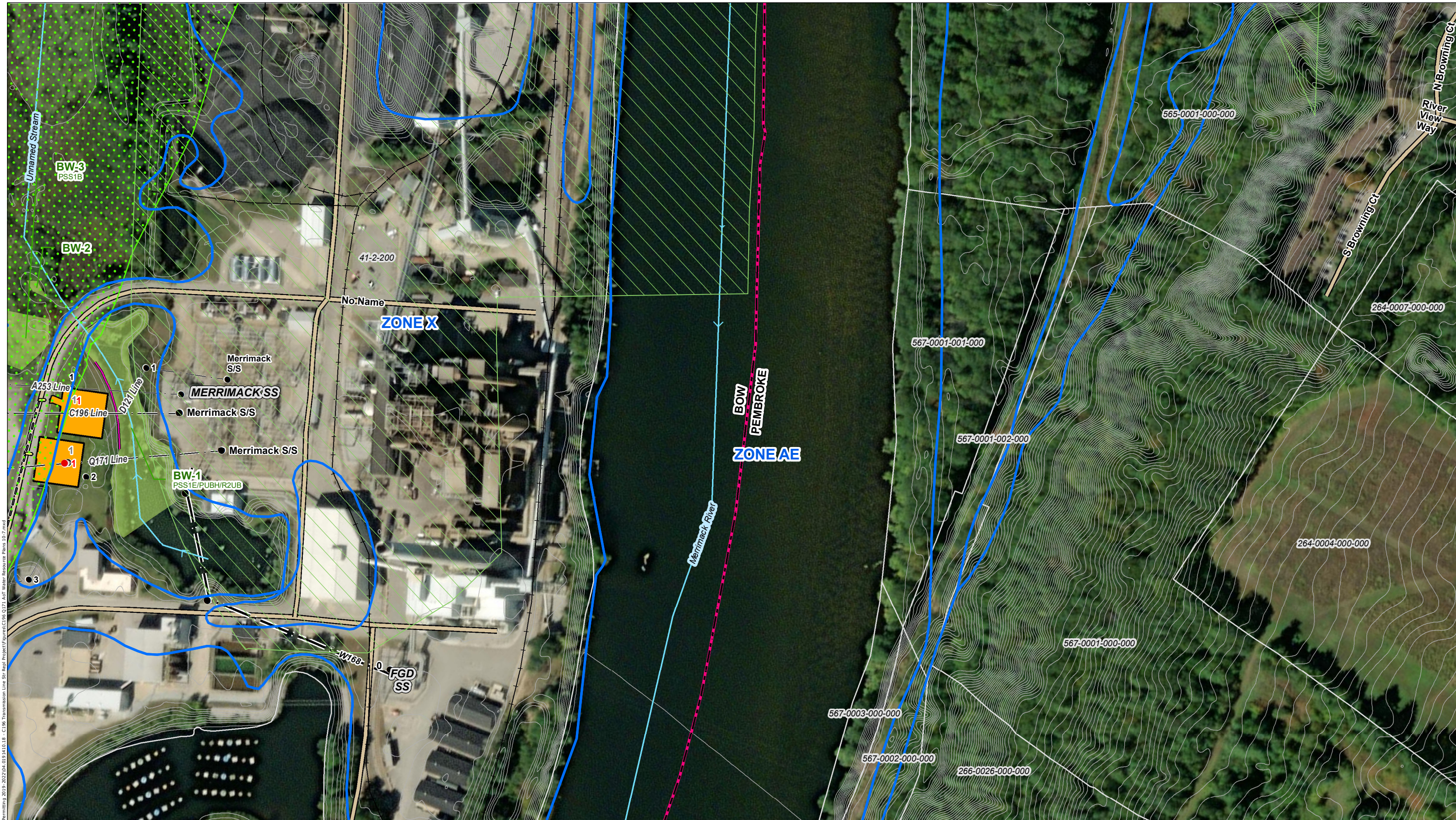
**EVSOURCE ENERGY**

**C196 and Q171 Transmission Line Structure Replacement Project**

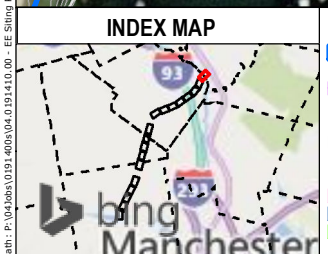
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Bow, NH	MAP SHEET
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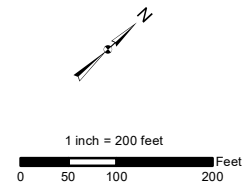


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**EVSOURCE ENERGY**

**C196 and Q171 Transmission Line Structure Replacement Project Surface and Groundwater Overlay Plans**

Bow/Pembroke, NH      MAP SHEET

Date: June, 2022      **18 OF 18**



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**CONSTRUCTION SEQUENCE:**

1. WETLAND BOUNDARIES TO BE CLEARLY MARKED PRIOR TO THE START OF CONSTRUCTION.
2. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAIL PROVIDED, AS NECESSARY, AND CONSISTENT WITH THE NHDES MARCH 2019 BMP MANUAL FOR UTILITY MAINTENANCE.
3. WETLAND IMPACTS ASSOCIATED WITH WETLAND CROSSINGS ARE REQUIRED FOR ACCESS BETWEEN STRUCTURES WITHIN THE RIGHT OF WAY.
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.
7. IMPACT TO VEGETATION WITHIN WETLANDS WILL BE LIMITED TO THE EXTENT NECESSARY TO PLACE THE SWAMP 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 AND PERIMETER CONTROLS WILL BE USED ALONG ACCESS ROUTES AND WORK PADS WITHIN WETLAND AREAS. THESE MATS ARE CONSTRUCTED OF HEAVY TIMBERS OR COMPOSITE MATERIAL, BOLTED TOGETHER, AND ARE PLACED 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. INSTALL NEW POLES IN THE LOCATIONS DESIGNATED ON THE PERMITTING PLANS.
15. 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.
16. REMOVAL OF THE OLD POLE WILL OCCUR ONCE THE CABLE HAS BEEN INSTALLED ON THE NEW STRUCTURE. THE OLD STRUCTURES WILL BE REMOVED FROM THE SITE. POLES WILL BE CUT AT THE GROUND SURFACE. FOOTINGS WILL BE ABANDONED IN PLACE TO MINIMIZE IMPACTS.
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.
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. MULCH USED FOR STABILIZATION SHALL CONSIST OF SEEDLESS STRAW.
21. SEDIMENT AND EROSION CONTROL MEASURES WILL BE EVALUATED AND REMOVED IF NECESSARY UPON THE COMPLETION OF CONSTRUCTION.
22. COMMERCIAL LOAM WILL NOT BE USED AS PART OF RESTORATION. ONLY IN-SITU TOPSOIL WILL BE USED TO RESTORE DISTURBED AREAS.
23. WHERE OPTIMAL TURTLE BREEDING AREAS OVERLAP WITH DISTURBANCE (AS DETERMINED BY AN ENVIRONMENTAL MONITOR), MINERAL SOILS WILL BE SCARIFIED TO ALLEVIATE COMPACTION AND BECOME MORE SUITED FOR TURTLE BREEDING.
24. NATURALLY VEGETATED LOCAL WETLAND BUFFER AREAS OUTSIDE OF EXISTING TRAILS MUST BE RESTORED UPON COMPLETION OF WORK.

**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 WETLAND DATA. EVERSOURCE ENERGY PROVIDED THE UTILITY DESIGN.
2. JURISDICTIONAL WETLANDS WERE CONFIRMED BY GZA GEOENVIRONMENTAL, INC. 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. WETLANDS WILL BE REVIEWED BY GZA GEOENVIRONMENTAL, INC. PRIOR TO START OF WORK.
3. GZA EVALUATED WETLANDS AS POTENTIAL VERNAL POOLS IN 2022 IN ACCORDANCE WITH "IDENTIFICATION AND DOCUMENTATION OF VERNAL POOLS IN NEW HAMPSHIRE," 2016, NEW HAMPSHIRE FISH AND GAME DEPARTMENT, NONGAME AND ANDANGERED WILDLIFE PROGRAM.
4. AS APPLICABLE, GZA WILL COMPLETE WETLANDS FUNCTION AND VALUES ASSESSMENT IN ACCORDANCE WITH THE ACOE'S "HIGHWAY METHODOLOGY WORKBOOK SUPPLEMENT," SEPTEMBER 1999.
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 WITH BMPS.
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.
7. EROSION CONTROL MATTING, IF REQUIRED, WILL CONSIST OF JUTE MATTING. MATTING WITH WELDED PLASTIC OR 'BIODEGRADABLE PLASTIC' NETTING OR THREAD WILL BE AVOIDED TO LIMIT UNINTENTIONAL MORTALITY TO SNAKES.

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**C196 & Q171 TRANSMISSION LINE STRUCTURE  
REPLACEMENT PROJECT**

GOFFSTOWN, DUNBARTON, AND BOW, NEW HAMPSHIRE

**NOTES**

<b>GZA GeoEnvironmental, Inc.</b> Engineers and Scientists www.gza.com		<b>EVERSOURCE</b> ENERGY	
PREPARED BY:	LEW	REVIEWED BY:	TLT
DESIGNED BY:	MJD	CHECKED BY:	DMZ
DATE:	08/22/2022	DRAWN BY:	MJD
		SCALE:	
		PROJECT NO.	04.0191410.18
		REVISION NO.	
			<b>SHEET</b>
			<b>S1</b>



## 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:

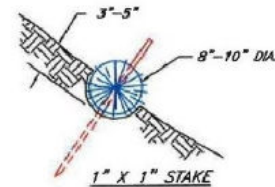
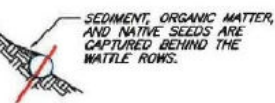
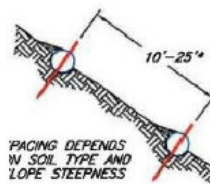
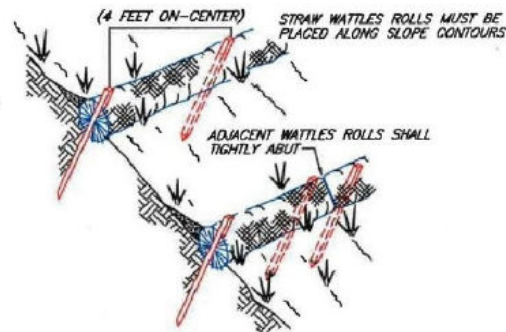
- \* Along erodible or unstabilized slopes
- \* Spread overland waterflow
- \* Trap sediment
- \* Around storm drain inlets to slow water and settle out sediment
- \* Overlap ends approximately 6 inches

### Installation:

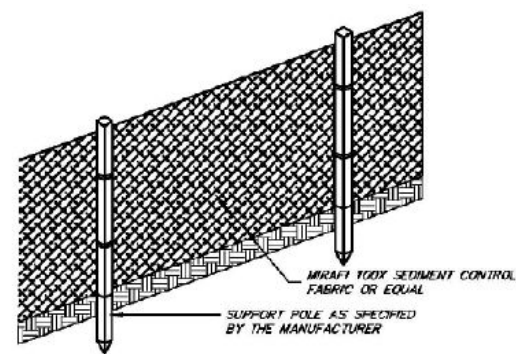
Straw wattles are installed parallel to slope contours and perpendicular to sheet flow.

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

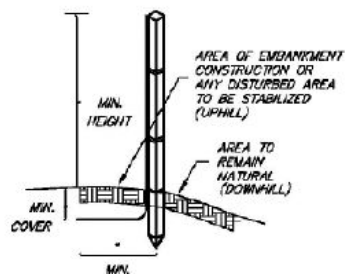
Trenching - 2"-5" inch trench  
Stacking - at each end and four foot on center (i.e. 25 foot wattle uses 6 stacks)



NOT TO SCALE



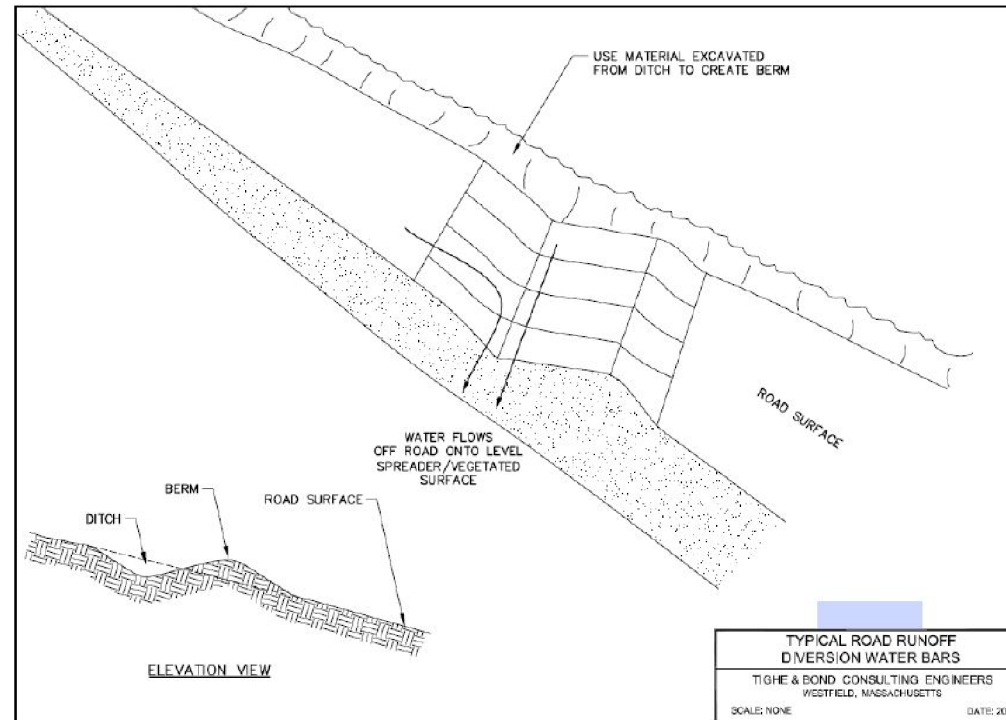
FRONT VIEW



SIDE VIEW

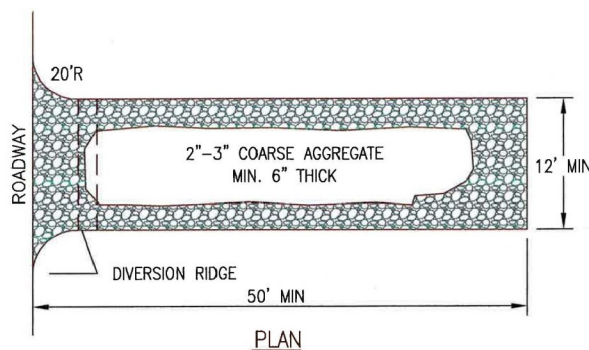
### NOTES (SILT FENCE)

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: 2017



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

Figure 5

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C196 & Q171 TRANSMISSION LINE  
STRUCTURE REPLACEMENT PROJECT  
GOFFSTOWN, DUNBARTON, & BOW, NEW HAMPSHIRE

## BMP DETAILS

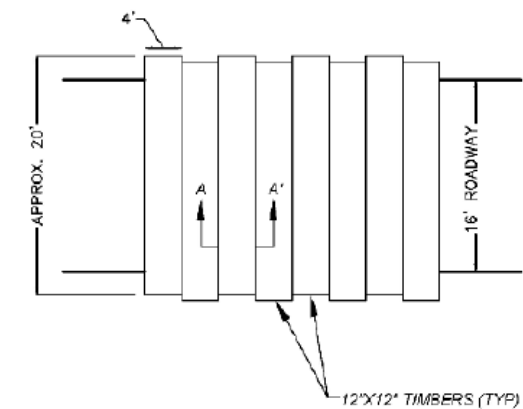
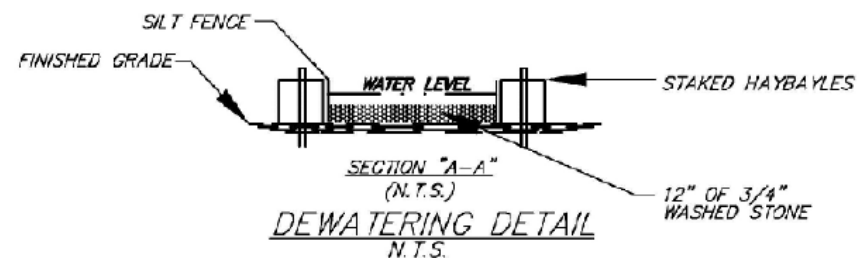
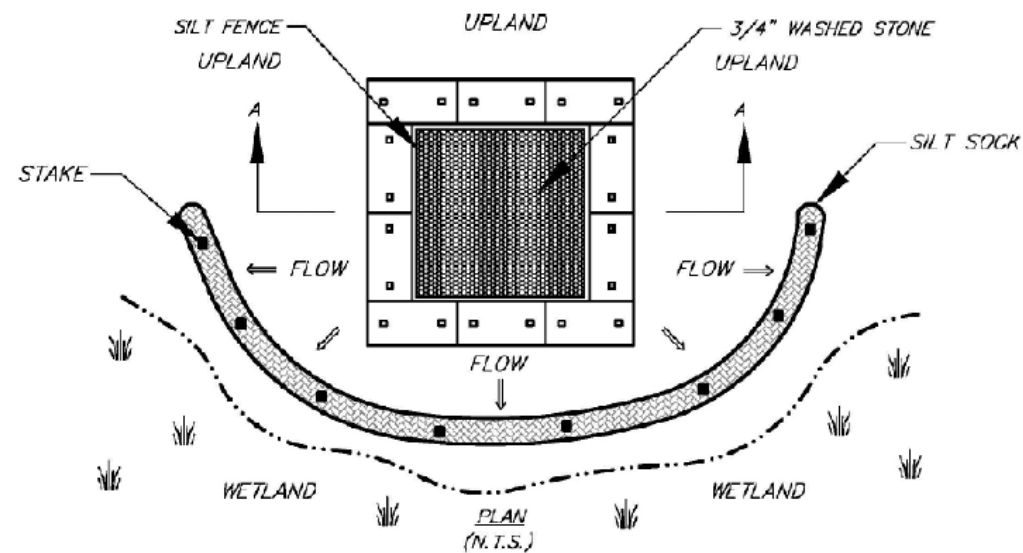
PREPARED BY:  
**GZA** GeoEnvironmental, Inc.  
Engineers and Scientists  
www.gza.com

PREPARED FOR:  
**EVERSOURCE**  
ENERGY

PROJ MGR: CEM	REVIEWED BY: TLT	CHECKED BY: DMZ	SHEET <b>S2</b>
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	
DATE: 08/29/2022	PROJECT NO: 04.0191410.18	REVISION NO:	



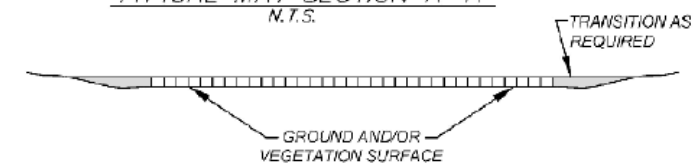
© 2022 - GZA GeoEnvironmental, Inc. P:\04\Jobs\0191410\00 - EE Siting Permitting 2019-2022\04.0191410.18 - C196 Transmission Line Str Repl Project\Figures\C196 Q171 AOT Notesheet 3 10-7.mxd, 8/22/2022, 9:16:54 AM, Sydney Wicklund



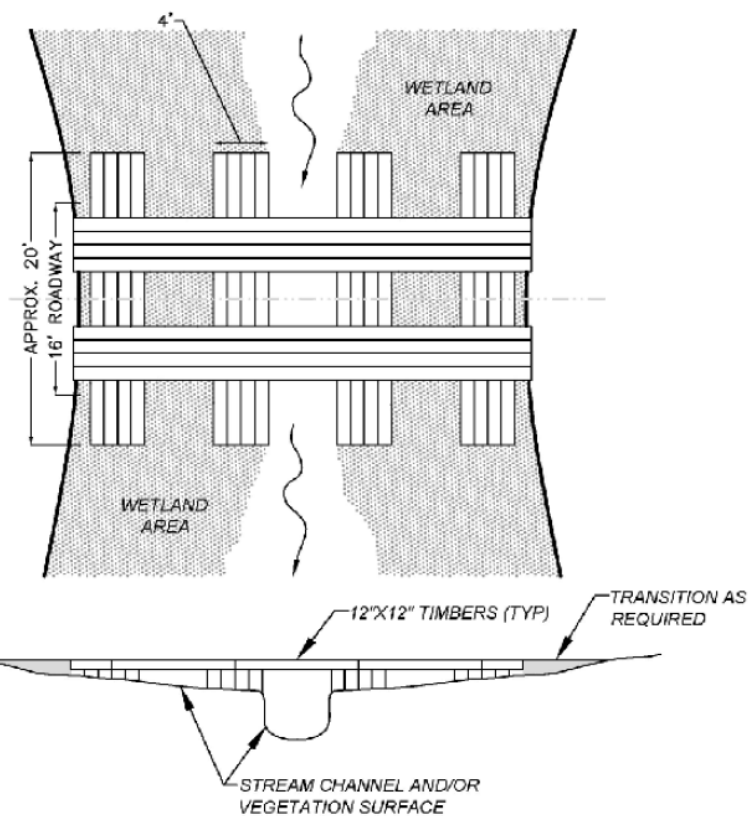
TYPICAL SWAMP MAT PLAN VIEW  
N.T.S.



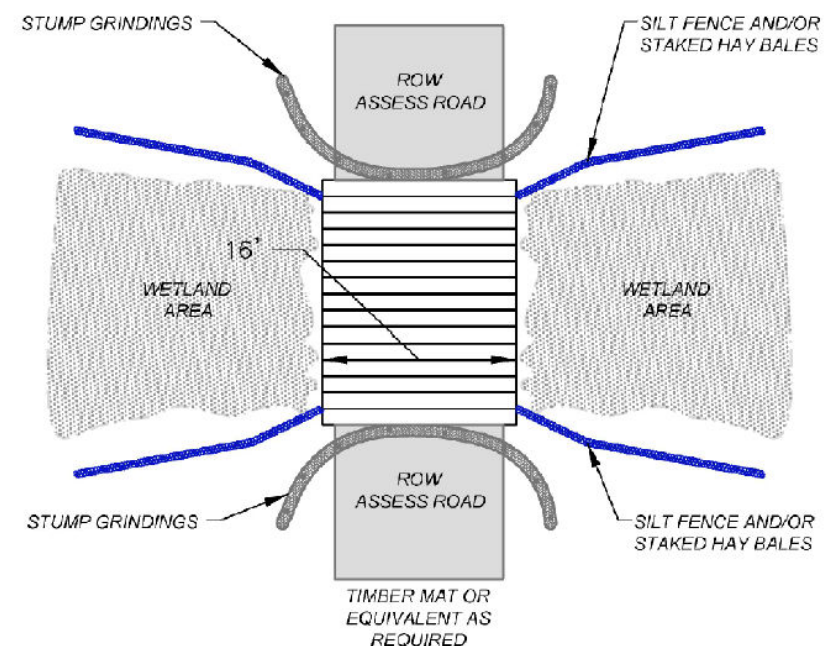
TYPICAL MAT SECTION A-A  
N.T.S.



TYPICAL SWAMP MAT SECTION DETAIL  
N.T.S.



TYPICAL STREAM CROSSING  
N.T.S.



TYPICAL WETLAND CROSSING  
N.T.S.

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C196 & Q171 TRANSMISSION LINE  
STRUCTURE REPLACEMENT PROJECT  
GOFFSTOWN, DUNBARTON, & BOW, 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 <b>S3</b>
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	
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**NEW HAMPSHIRE FISH AND GAME AOT PERMIT CONDITIONS IN ACCORDANCE WITH ENV-WQ 1504.18 – WILDLIFE PROTECTION NOTES:**

**NHB22-1754 AND NHB22-2081 (BOW)**



PROPOSED WORK IN BOW (EXISTING STRUCTURE C196 69 TO 59) OCCURS WITHIN A PRIORITY CONSERVATION AREA FOR BLANDING'S AND SPOTTED TURTLES. THIS SHOULD BE COMMUNICATED TO PERSONNEL, AND IMPACTS SHOULD BE MINIMIZED TO THE EXTENT POSSIBLE.

1. BMPS IN THE DOCUMENT TITLED "C196 Q171 NHFG BMP RECOMMENDATIONS 8-17-22" SUBMITTED TO NHFG 8/15/22 SHALL BE ADHERED TO AT ALL TIMES DURING THIS PROJECT.
2. BLANDING'S TURTLE (STATE ENDANGERED), SPOTTED TURTLE (STATE THREATENED), EASTERN HOGNOSE SNAKE (STATE ENDANGERED), NORTHERN BLACK RACER (STATE THREATENED), AND WOOD TURTLE (STATE SPECIES OF SPECIAL CONCERN) OCCUR WITHIN THE VICINITY OF THE PROJECT AREA. ALL OPERATORS AND PERSONNEL WORKING ON OR ENTERING THE SITE SHALL BE MADE AWARE OF THE POTENTIAL PRESENCE OF THESE SPECIES AND SHALL BE PROVIDED FLYERS THAT HELP TO IDENTIFY THESE SPECIES, ALONG WITH NHFG CONTACT INFORMATION. SEE PLAN SHEET S7 AND S8.
3. 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.
4. EASTERN HOGNOSE SNAKE OBSERVATIONS SHALL BE REPORTED IMMEDIATELY TO NHFG WILDLIFE BIOLOGISTS MELISSA WINTERS (603-479-1129) OR BRENDAN CLIFFORD (603-944-0885). IMMEDIATE REPORTING OF OBSERVATIONS IS CRITICAL AS NHFG BIOLOGISTS WILL NEED TO COLLECT DATA ON THE INDIVIDUAL.
5. TURTLES AND SNAKES MAY BE ATTRACTED TO DISTURBED GROUND DURING NESTING SEASON. TURTLE NESTING SEASON OCCURS APPROXIMATELY MAY 15TH – JUNE 30TH. NESTING AREAS MAY INCLUDE WORK PADS AND ACCESS ROADS THAT ARE NOT HARD PACK GRAVEL AND OTHER SANDY/GRAVEL WORK AREAS. ALL TURTLE SPECIES NESTS AND NORTHERN BLACK RACER NESTS ARE PROTECTED BY NH LAWS. BE AWARE OF THE POTENTIAL TO ENCOUNTER NESTING WILDLIFE IN THESE AREAS.
6. IF A TURTLE OR SNAKE NEST IS OBSERVED OR SUSPECTED, OR A TURTLE IS EXHIBITING NESTING BEHAVIORS, EVERSOURCE OR A DESIGNATED PROJECT REPRESENTATIVE SHALL CONTACT MELISSA WINTERS (603-479-1129) OR JOSH MEGYESY (978-578-0802) AT NHFG IMMEDIATELY FOR FURTHER CONSULTATION. TURTLE NESTS OR TURTLES EXHIBITING NESTING BEHAVIOR SHALL NOT BE DISTURBED.
7. 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 WINTERS (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.
8. ALL MATTING WHICH WILL BE PLACED IN WATERBODIES DEEMED SUITABLE FOR HIBERNATING RARE TURTLES WILL BE PLACED PRIOR TO THE START OF THE INACTIVE SEASON SO AS TO PREVENT ACCIDENTAL PLACEMENT ATOP HIBERNATING TURTLES. PRIOR TO MATTING PLACEMENT IN THESE WETLANDS, THE AREA SHALL BE SWEEP BY A QUALIFIED BIOLOGIST OR HERPETOLOGIST TO ENSURE ANY TURTLES RELOCATE AWAY FROM THE AREA TO BE MATTED.
9. IMMEDIATELY PRIOR TO THE PLACEMENT OF MATTING IN WETLANDS WITHIN RARE TURTLE HABITAT DURING THE ACTIVE SEASON, THE AREAS SHALL BE CLEARED BY A QUALIFIED BIOLOGIST OR HERPETOLOGIST.
10. SWEEPS OF WORK AREAS AND ACCESS ROUTES SHALL BE CONDUCTED IMMEDIATELY PRIOR TO START OF WORK AND EQUIPMENT MOVEMENT IN ORDER TO MINIMIZE THE POTENTIAL OF ANIMALS ENTERING A WORK AREA BETWEEN THE SWEEP AND ACTIVITY.
11. ALL WORK ACTIVITIES SHALL BE RESTRICTED TO THE DEFINED ROADS, CONSTRUCTION AREAS, AND STAGING AREAS, WITH NO EQUIPMENT OR MATERIALS STAGED OR STORED OUTSIDE OF THE DEFINED AREAS AS SHOWN ON PLAN SHEETS.
12. 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;
13. 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;
14. 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;
15. 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.  
-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.
16. THE NHFG, INCLUDING ITS EMPLOYEES AND AUTHORIZED AGENTS, SHALL HAVE ACCESS TO THE PROPERTY DURING THE TERM OF THE PERMIT.

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**C196 & Q171 TRANSMISSION LINE STRUCTURE REPLACEMENT PROJECT**  
  
GOFFSTOWN, DUNBARTON, AND BOW, NEW HAMPSHIRE

**NOTES**

PREPARED BY:  <b>GZA</b> GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: 	
PROJ MGR: LEW	REVIEWED BY: TLT	CHECKED BY: DMZ	SHEET <b>S4</b>
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	
DATE: 08/29/2022	PROJECT NO: 04.0191410.18	REVISION NO:	

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

**NHB22-1755 (DUNBARTON)**



PROPOSED WORK IN DUNBARTON (C196 EXISTING STRUCTURE 70 TO 74) OCCURS WITHIN A PRIORITY CONSERVATION AREA FOR BLANDING'S AND SPOTTED TURTLES. THIS SHOULD BE COMMUNICATED TO PERSONNEL, AND IMPACTS SHOULD BE MINIMIZED TO THE EXTENT POSSIBLE.

1. BMPS IN THE DOCUMENT TITLED "C196 Q171 NHFG BMP RECOMMENDATIONS 8-17-22" SUBMITTED TO NHFG 8/15/22 SHALL BE ADHERED TO AT ALL TIMES DURING THIS PROJECT.
2. BLANDING'S TURTLE (STATE ENDANGERED), SPOTTED TURTLE (STATE THREATENED) , AND WOOD TURTLE (STATE SPECIES OF SPECIAL CONCERN) OCCUR WITHIN THE VICINITY OF THE PROJECT AREA. ALL OPERATORS AND PERSONNEL WORKING ON OR ENTERING THE SITE SHALL BE MADE AWARE OF THE POTENTIAL PRESENCE OF THESE SPECIES AND SHALL BE PROVIDED FLYERS THAT HELP TO IDENTIFY THESE SPECIES, ALONG WITH NHFG CONTACT INFORMATION. SEE PLAN SHEET S7 AND S8.
3. 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.
4. TURTLES MAY BE ATTRACTED TO DISTURBED GROUND DURING NESTING SEASON. TURTLE NESTING SEASON OCCURS APPROXIMATELY MAY 15TH – JUNE 30TH. NESTING AREAS MAY INCLUDE WORK PADS AND ACCESS ROADS THAT ARE NOT HARD PACK GRAVEL AND OTHER SANDY/GRAVEL WORK AREAS. ALL TURTLE SPECIES NESTS ARE PROTECTED BY NH LAWS. BE AWARE OF THE POTENTIAL TO ENCOUNTER NESTING WILDLIFE IN THESE AREAS.
5. IF A TURTLE NEST IS OBSERVED OR SUSPECTED, OR A TURTLE IS EXHIBITING NESTING BEHAVIORS, EVERSOURCE OR A DESIGNATED PROJECT REPRESENTATIVE SHALL CONTACT MELISSA WINTERS (603-479-1129) OR JOSH MEGYESY (978-578-0802) AT NHFG IMMEDIATELY FOR FURTHER CONSULTATION. TURTLE NESTS OR TURTLES EXHIBITING NESTING BEHAVIOR SHALL NOT BE DISTURBED.
6. ALL MATTING WHICH WILL BE PLACED IN WATERBODIES DEEMED SUITABLE FOR HIBERNATING RARE TURTLES WILL BE PLACED PRIOR TO THE START OF THE INACTIVE SEASON SO AS TO PREVENT ACCIDENTAL PLACEMENT ATOP HIBERNATING TURTLES. PRIOR TO MATTING PLACEMENT IN THESE WETLANDS, THE AREA SHALL BE SWEEPED BY A QUALIFIED BIOLOGIST OR HERPETOLOGIST TO ENSURE ANY TURTLES RELOCATE AWAY FROM THE AREA TO BE MATTED.
7. IMMEDIATELY PRIOR TO THE PLACEMENT OF MATTING IN WETLANDS WITHIN RARE TURTLE HABITAT DURING THE ACTIVE SEASON, THE AREAS SHALL BE CLEARED BY A QUALIFIED BIOLOGIST OR HERPETOLOGIST.
8. SWEEPS OF WORK AREAS AND ACCESS ROUTES SHALL BE CONDUCTED IMMEDIATELY PRIOR TO START OF WORK AND EQUIPMENT MOVEMENT IN ORDER TO MINIMIZE THE POTENTIAL OF ANIMALS ENTERING A WORK AREA BETWEEN THE SWEEP AND ACTIVITY.
9. ALL WORK ACTIVITIES SHALL BE RESTRICTED TO THE DEFINED ROADS, CONSTRUCTION AREAS, AND STAGING AREAS, WITH NO EQUIPMENT OR MATERIALS STAGED OR STORED OUTSIDE OF THE DEFINED AREAS AS SHOWN ON PLAN SHEETS.
10. 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;
11. 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;
12. 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;
13. 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.  
-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.
14. THE NHFG, INCLUDING ITS EMPLOYEES AND AUTHORIZED AGENTS, SHALL HAVE ACCESS TO THE PROPERTY DURING THE TERM OF THE PERMIT.

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.

**C196 & Q171 TRANSMISSION LINE STRUCTURE REPLACEMENT PROJECT**  
  
GOFFSTOWN, DUNBARTON, AND BOW, NEW HAMPSHIRE

**NOTES**

PREPARED BY:  <b>GZA</b> GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR:  <b>EVERSOURCE</b> ENERGY	
PROJ MGR: LEW	REVIEWED BY: TLT	CHECKED BY: DMZ	SHEET  <b>S5</b>
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	
DATE: 08/29/2022	PROJECT NO: 04.0191410.18	REVISION NO:	



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

**NHB22-1756 (GOFFSTOWN)**

PROPOSED WORK IN GOFFSTOWN (EXISTING STRUCTURE Q171 139 TO 136) OCCURS WITHIN A PRIORITY CONSERVATION AREA FOR WOOD TURTLES AND POPULATIONS IN THE VICINITY ARE BEING MONITORED BY NHFG. THIS SHOULD BE COMMUNICATED TO PERSONNEL, AND IMPACTS SHOULD BE MINIMIZED TO THE EXTENT POSSIBLE.

1. BMPS IN THE DOCUMENT TITLED "C196 Q171 NHFG BMP RECOMMENDATIONS 8-17-22" SUBMITTED TO NHFG 8/15/22 SHALL BE ADHERED TO AT ALL TIMES DURING THIS PROJECT.
2. THERE IS HIGH POTENTIAL OF A NORTHERN BLACK RACER DEN SITE IN THE VICINITY OF THIS PROJECT. NORTHERN BLACK RACER SURVEYS SHALL BE CONDUCTED IN MID-SEPTEMBER THROUGH MID-OCTOBER FOLLOWING THE PROTOCOL PROVIDED TO EVERSOURCE IN THE DOCUMENT TITLED "SURVEY PROTOCOLS FOR NORTHERN BLACK RACERS DURING THE C196 Q171 STRUCTURE REPLACEMENT PROJECT" (ATTACHED). THIS WILL REQUIRE A SCIENTIFIC LICENSE FROM NHFG.
3. BLANDING'S TURTLE (STATE ENDANGERED), SPOTTED TURTLE (STATE THREATENED), NORTHERN BLACK RACER (STATE THREATENED), AND WOOD TURTLE (STATE SPECIES OF SPECIAL CONCERN) OCCUR WITHIN THE VICINITY OF THE PROJECT AREA. ALL OPERATORS AND PERSONNEL WORKING ON OR ENTERING THE SITE SHALL BE MADE AWARE OF THE POTENTIAL PRESENCE OF THESE SPECIES AND SHALL BE PROVIDED FLYERS THAT HELP TO IDENTIFY THESE SPECIES, ALONG WITH NHFG CONTACT INFORMATION. SEE PLAN SHEET S7 AND S8.
4. 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.
5. TURTLES AND SNAKES MAY BE ATTRACTED TO DISTURBED GROUND DURING NESTING SEASON. TURTLE NESTING SEASON OCCURS APPROXIMATELY MAY 15TH – JUNE 30TH. NESTING AREAS MAY INCLUDE WORK PADS AND ACCESS ROADS THAT ARE NOT HARD PACK GRAVEL AND OTHER SANDY/GRAVEL WORK AREAS. ALL TURTLE SPECIES NESTS AND NORTHERN BLACK RACER NESTS ARE PROTECTED BY NH LAWS. BE AWARE OF THE POTENTIAL TO ENCOUNTER NESTING WILDLIFE IN THESE AREAS.
6. IF A TURTLE OR SNAKE NEST IS OBSERVED OR SUSPECTED, OR A TURTLE IS EXHIBITING NESTING BEHAVIORS, EVERSOURCE OR A DESIGNATED PROJECT REPRESENTATIVE SHALL CONTACT MELISSA WINTERS (603-479-1129) OR JOSH MEGYESY (978-578-0802) AT NHFG IMMEDIATELY FOR FURTHER CONSULTATION. TURTLE NESTS OR TURTLES EXHIBITING NESTING BEHAVIOR SHALL NOT BE DISTURBED.
7. OBSERVATIONS OF NORTHERN BLACK RACERS SHALL BE REPORTED IMMEDIATELY TO THE NEW HAMPSHIRE FISH AND GAME DEPARTMENT NONGAME AND ENDANGERED WILDLIFE ENVIRONMENTAL REVIEW PROGRAM. PLEASE CONTACT MELISSA WINTERS (603-479-1129) OR BRENDAN CLIFFORD (603-944-0885). PLEASE INCLUDE PHOTOGRAPH WITH TEXT IF FEASIBLE. 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.
8. ALL MATTING WHICH WILL BE PLACED IN WATERBODIES DEEMED SUITABLE FOR HIBERNATING RARE TURTLES WILL BE PLACED PRIOR TO THE START OF THE INACTIVE SEASON SO AS TO PREVENT ACCIDENTAL PLACEMENT ATOP HIBERNATING TURTLES. PRIOR TO MATTING PLACEMENT IN THESE WETLANDS, THE AREA SHALL BE SWEEPED BY A QUALIFIED BIOLOGIST OR HERPETOLOGIST TO ENSURE ANY TURTLES RELOCATE AWAY FROM THE AREA TO BE MATTED.
9. IMMEDIATELY PRIOR TO THE PLACEMENT OF MATTING IN WETLANDS WITHIN RARE TURTLE HABITAT DURING THE ACTIVE SEASON, THE AREAS SHALL BE CLEARED BY A QUALIFIED BIOLOGIST OR HERPETOLOGIST.
10. SWEEPS OF WORK AREAS AND ACCESS ROUTES SHALL BE CONDUCTED IMMEDIATELY PRIOR TO START OF WORK AND EQUIPMENT MOVEMENT IN ORDER TO MINIMIZE THE POTENTIAL OF ANIMALS ENTERING A WORK AREA BETWEEN THE SWEEP AND ACTIVITY.
11. ALL WORK ACTIVITIES SHALL BE RESTRICTED TO THE DEFINED ROADS, CONSTRUCTION AREAS, AND STAGING AREAS, WITH NO EQUIPMENT OR MATERIALS STAGED OR STORED OUTSIDE OF THE DEFINED AREAS AS SHOWN ON PLAN SHEETS.
12. 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;
13. 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;
14. 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;
15. 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.  
-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.
16. THE NHFG, INCLUDING ITS EMPLOYEES AND AUTHORIZED AGENTS, SHALL HAVE ACCESS TO THE PROPERTY DURING THE TERM OF THE PERMIT.



**ADDITIONAL RECOMMENDATIONS**

17. SMOOTH GREEN SNAKES (STATE SPECIES OF SPECIAL CONCERN) OCCUR WITHIN THE VICINITY OF THE PROJECT SITE. SITE OPERATORS SHOULD BE INFORMED OF THE POTENTIAL PRESENCES OF THIS SPECIES AND SHALL BE PROVIDED A FLYER THAT HELPS TO IDENTIFY THIS SPECIES ALONG WITH NHFG CONTACT INFORMATION. SEE PLAN SHEET S7 AND S8.

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**C196 & Q171 TRANSMISSION LINE STRUCTURE REPLACEMENT PROJECT**  
  
GOFFSTOWN, DUNBARTON, AND BOW, NEW HAMPSHIRE

**NOTES**

PREPARED BY:  <b>GZA</b> GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: 	
PROJ MGR: LEW	REVIEWED BY: TLT	CHECKED BY: DMZ	SHEET  <b>S6</b>
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	
DATE: 08/29/2022	PROJECT NO: 04.0191410.18	REVISION NO:	



**WOOD TURTLE (GLYPTEMYS INSCULPTA)**

STATE SPECIES OF SPECIAL CONCERN



**WOOD TURTLE IDENTIFICATION**

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

**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.

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

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C196 AND Q171 TRANSMISSION LINE  
STRUCTURE REPLACEMENT PROJECT  
BOW, DUNBARTON, AND GOFFSTOWN,  
NEW HAMPSHIRE

**WILDLIFE NOTES**

PREPARED BY: <b>GZA</b> GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: <b>EVERSOURCE</b> ENERGY	
PROJ MGR: LEW	REVIEWED BY: TLT	CHECKED BY: DMZ	SHEET <b>S7</b>
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	
DATE: 08/23/2022	PROJECT NO: 04.0191410.18	REVISION NO:	



**NORTHERN BLACK RACER (COLUBER CONSTRICTOR)**

STATE THREATENED



**NORTHERN BLACK RACER IDENTIFICATION**

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

**SMOOTH GREEN SNAKE (LIOCHLOROPHIS VERNALIS)**

SPECIES OF SPECIAL CONCERN



**SMOOTH GREEN SNAKE IDENTIFICATION**

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

**EASTERN HOGNOSE SNAKE (HETERODON PLATIRHINOS)**

STATE ENDANGERED



**EASTERN HOGNOSE IDENTIFICATION**



1. 20-35 INCHES LONG
2. UPTURNED SNOUT
3. KEELED DORSAL SCALES
4. LIGHT AND DARK BLOTCHES OF COLOR FROM BROWN TO RED AND ORANGE

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**C196 AND Q171 TRANSMISSION LINE  
STRUCTURE REPLACEMENT PROJECT**

BOW, DUNBARTON, AND BOW,  
NEW HAMPSHIRE

**WILDLIFE NOTES**

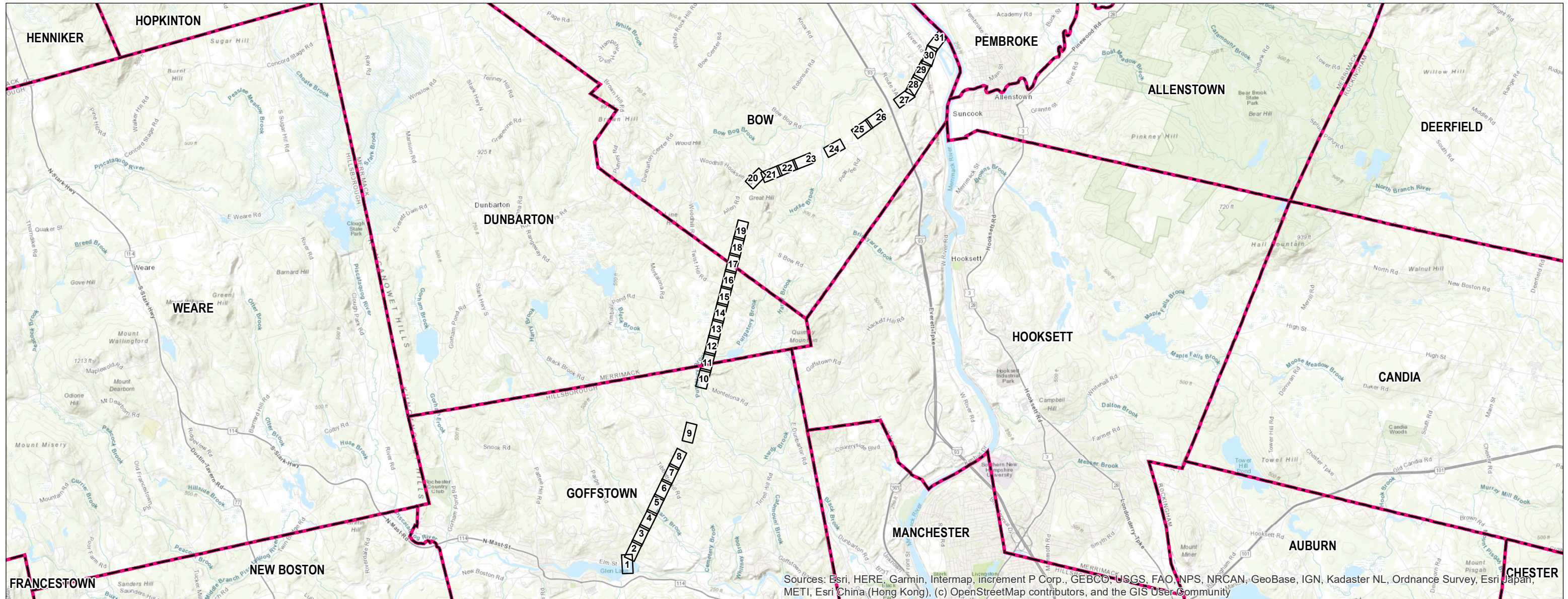
PREPARED BY:  <b>GZA</b> GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: 	
PROJ MGR: LEW	REVIEWED BY: TLT	CHECKED BY: DMZ	SHEET
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	
DATE: 08/23/2022	PROJECT NO: 04.0191410.18	REVISION NO:	<b>S8</b>



# C196 and Q171 Transmission Line - Structure Replacement Project

GOFFSTOWN, DUNBARTON, AND BOW, NEW HAMPSHIRE  
Alteration of Terrain Permitting Planset

Date: June 28, 2022

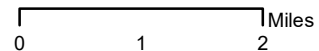


Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

PREPARED FOR:



13 Legends Drive  
Hooksett, NH 03106



INDEX OF FIGURES

Title Sheet / Index Map  
Map Sheets 1-31  
Note Sheets 1-8

NO.	DATE	REVISIONS

PREPARED BY:

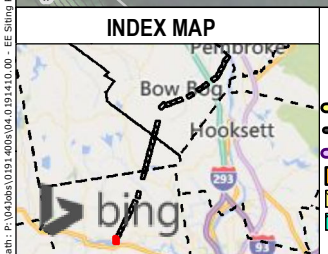


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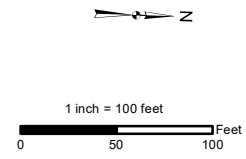


AoT Area A - Goffstown	
Map Sheets 1 to 11	
<b>Disturbance Type</b>	<b>Impact (sq. ft)</b>
New Access	130,030
Gravel Work Pad	361,624
<b>Total AoT Disturbed Area</b>	<b>491,654</b>
-Criteria: Env-Wq 1502.58 (b) (2) "An area that, over a 10 year period, cumulatively exceeds 100,000 square feet of contiguous 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	



- PROPOSED STRUCTURE REPLACEMENT
- EXISTING STRUCTURE - NO PROPOSED WORK
- EXISTING STRUCTURE TO BE REPLACED
- PROPOSED ACCESS
- EXISTING ACCESS
- OFF-ROW/SECONDARY ACCESS
- AoT IMPACT AREA
- TEMPORARY WETLAND MATTING
- TEMPORARY UPLAND MATTING
- TOWN MAINTAINED ROAD
- STATE MAINTAINED ROADS
- PRIVATE ROAD
- EXISTING TRANSMISSION LINE
- APPROXIMATE ROW
- RAILROAD
- POTENTIAL VERNAL POOL
- WORK PAD
- TOWN BOUNDARY
- EROSION AND SEDIMENT CONTROL
- FIELD DELINEATED WETLAND
- NHD FLOWLINES
- PARCEL BOUNDARY
- EVERSOURCE OWNED PARCEL
- 2FT ELEVATION CONTOURS

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



NO.	DATE	REVISIONS

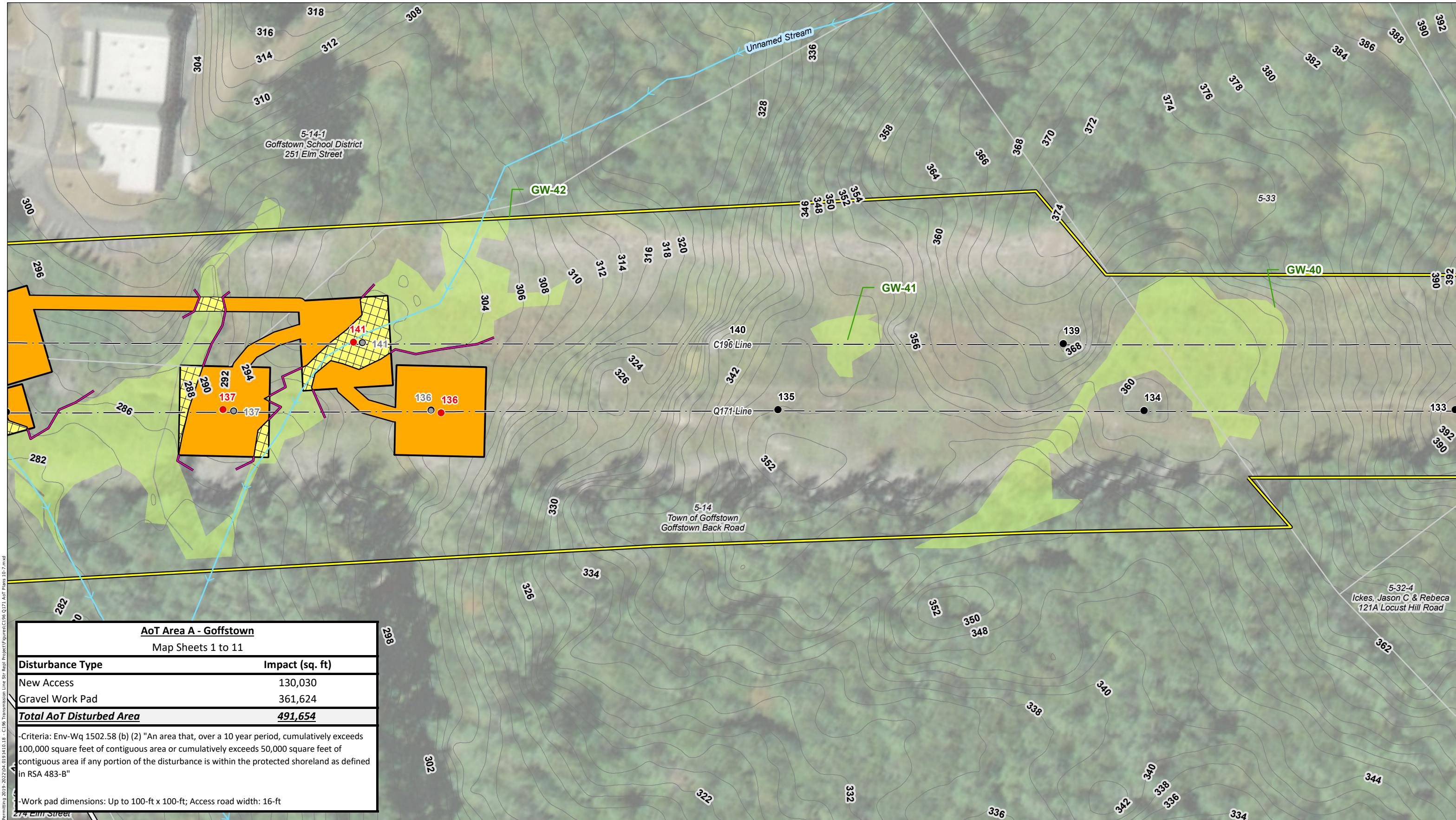
**EVSOURCE ENERGY**

**C196 and Q171 Transmission Line Structure Replacement Project**  
**Alternation of Terrain Permitting Plans**

Goffstown, NH	MAP SHEET
Date: June, 2022	<b>1 OF 31</b>

Path: P:\Jobs\01914003\01914003\_00 - EE Shing Permitting 2019-2022\04\_09\_19\1018 - C196 Transmission Line Str. Repl. Project\Figures\C196 Q171 AoT Plans 10-7.mxd





**AoT Area A - Goffstown**  
Map Sheets 1 to 11

Disturbance Type	Impact (sq. ft)
New Access	130,030
Gravel Work Pad	361,624
<b>Total AoT Disturbed Area</b>	<b>491,654</b>

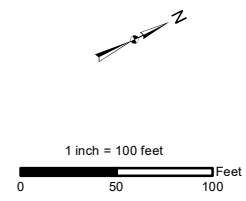
-Criteria: Env-Wq 1502.58 (b) (2) "An area that, over a 10 year period, cumulatively exceeds 100,000 square feet of contiguous area or cumulatively exceeds 50,000 square feet of contiguous area if any portion of the disturbance is within the protected shoreland as defined in RSA 483-B"

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

**INDEX MAP**

- PROPOSED STRUCTURE REPLACEMENT
- EXISTING STRUCTURE - NO PROPOSED WORK
- EXISTING STRUCTURE TO BE REPLACED
- PROPOSED ACCESS
- EXISTING ACCESS
- OFF-ROW/SECONDARY ACCESS
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- TEMPORARY WETLAND MATTING
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NO.	DATE	REVISIONS

**EVSOURCE ENERGY**

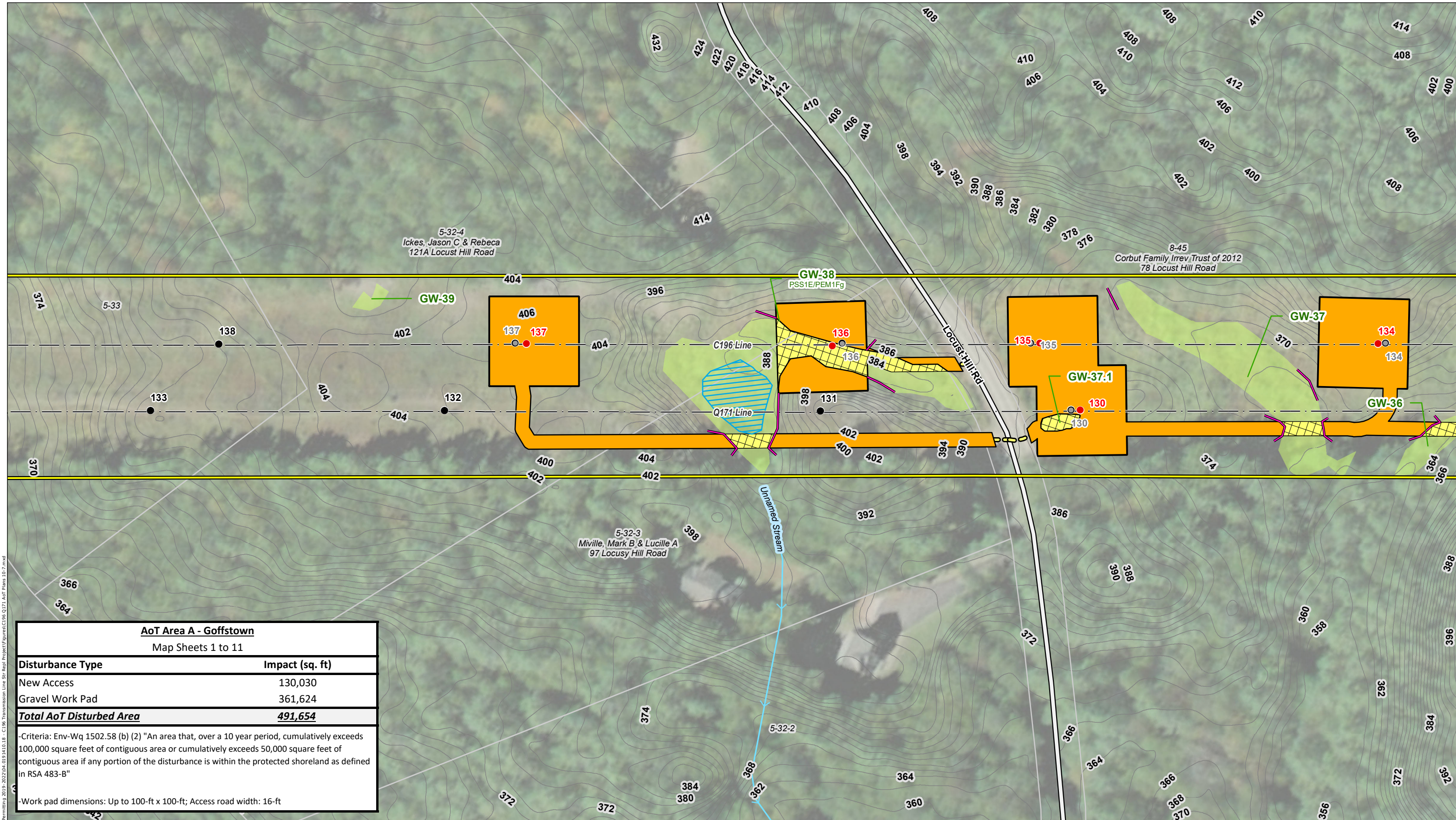
**C196 and Q171 Transmission Line Structure Replacement Project**  
**Alternation of Terrain Permitting Plans**

Goffstown, NH      MAP SHEET

Date: June, 2022      **2 OF 31**

Path: P:\Jobs\0191400\0191400\_00 - EE Shing Permitting 2019-2022\04\_09\_19\1018 - C196 Transmission Line Str. Repl. Project\Figures\C196 Q171 AoT Plans 10-7.mxd





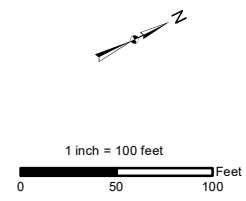
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AoT Area A - Goffstown	
Map Sheets 1 to 11	
<b>Disturbance Type</b>	<b>Impact (sq. ft)</b>
New Access	130,030
Gravel Work Pad	361,624
<b>Total AoT Disturbed Area</b>	<b>491,654</b>
-Criteria: Env-Wq 1502.58 (b) (2) "An area that, over a 10 year period, 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	

**INDEX MAP**

● PROPOSED STRUCTURE REPLACEMENT	— TOWN MAINTAINED ROAD	■ FIELD DELINEATED WETLAND
● EXISTING STRUCTURE - NO PROPOSED WORK	— STATE MAINTAINED ROADS	→ NHD FLOWLINES
● EXISTING STRUCTURE TO BE REPLACED	— PRIVATE ROAD	□ PARCEL BOUNDARY
— PROPOSED ACCESS	— EXISTING TRANSMISSION LINE	■ EVERSOURCE OWNED PARCEL
— EXISTING ACCESS	— APPROXIMATE ROW	— 2FT ELEVATION CONTOURS
— OFF-ROW/SECONDARY ACCESS	— RAILROAD	
■ AoT IMPACT AREA	— POTENTIAL VERNAL POOL	
■ TEMPORARY WETLAND MATTING	■ WORK PAD	
■ TEMPORARY UPLAND MATTING	— TOWN BOUNDARY	
	— EROSION AND SEDIMENT CONTROL	

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NO.	DATE	REVISIONS

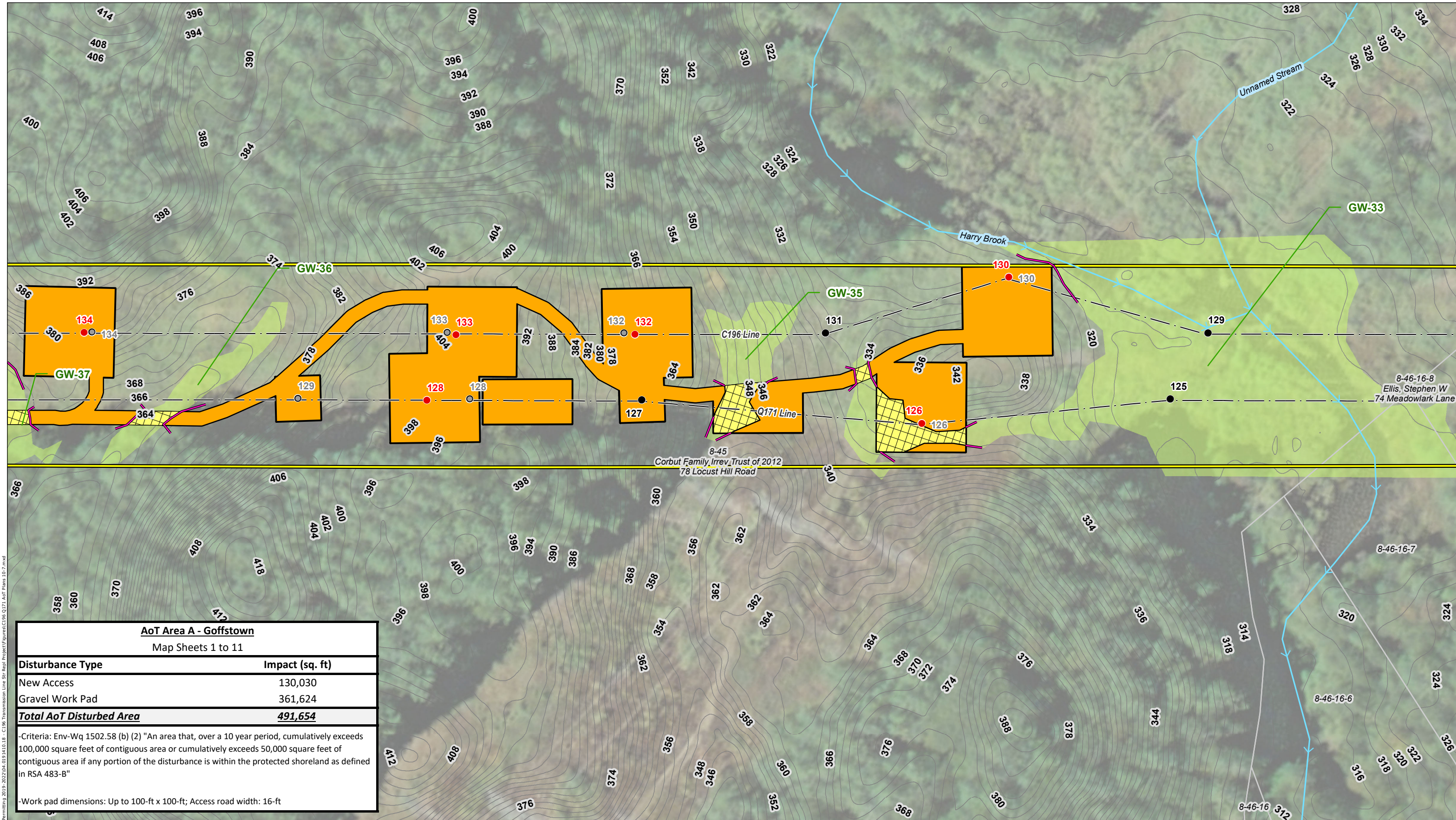
**EVERSOURCE ENERGY**

**C196 and Q171 Transmission Line Structure Replacement Project**  
**Alternation of Terrain Permitting Plans**

Goffstown, NH      MAP SHEET

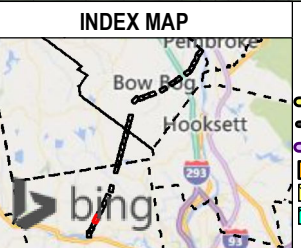
Date: June, 2022      **3 OF 31**





AoT Area A - Goffstown	
Map Sheets 1 to 11	
<b>Disturbance Type</b>	<b>Impact (sq. ft)</b>
New Access	130,030
Gravel Work Pad	361,624
<b>Total AoT Disturbed Area</b>	<b>491,654</b>
-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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- 2FT ELEVATION CONTOURS

1 inch = 100 feet

NO.	DATE	REVISIONS

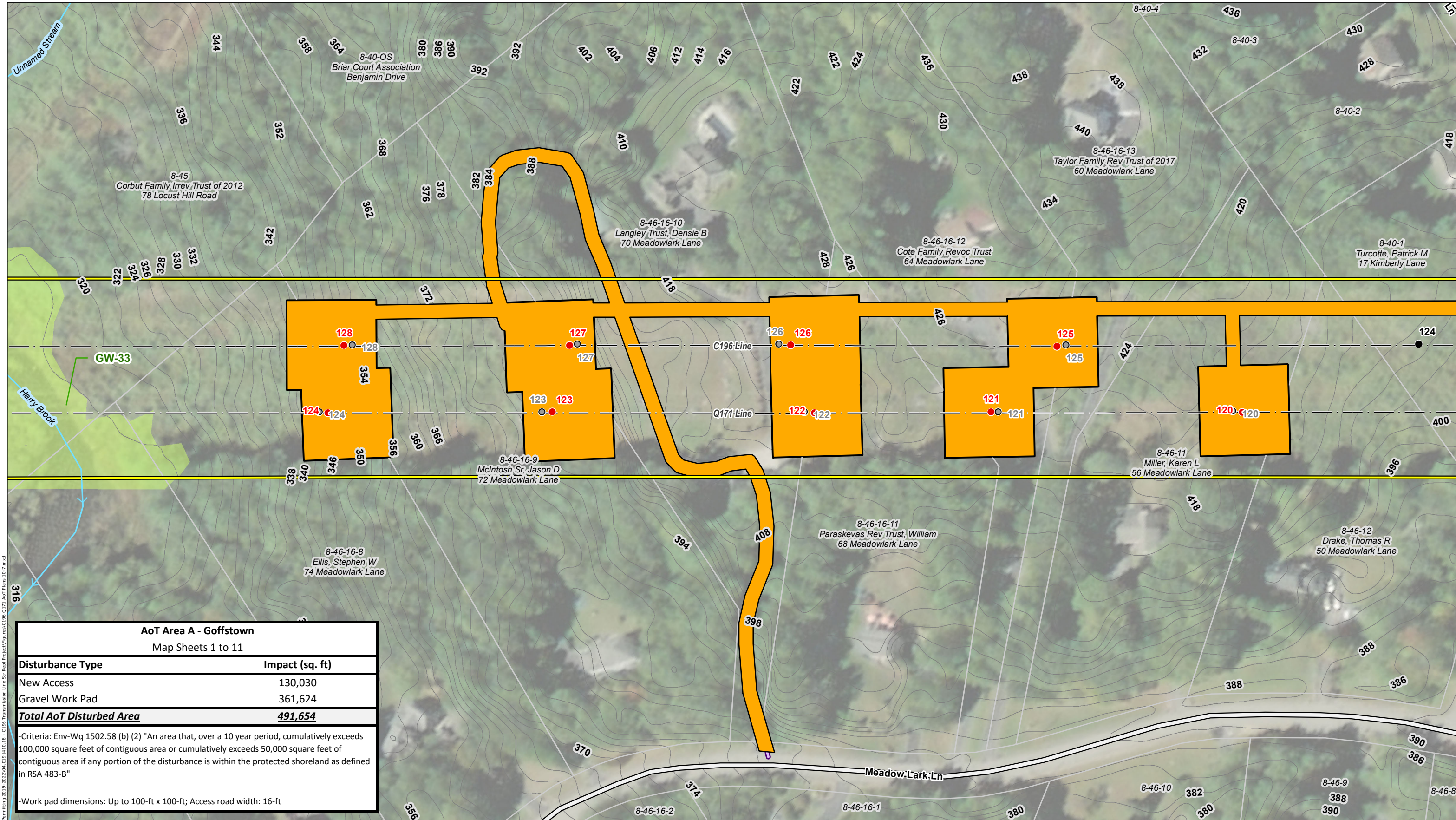
**C196 and Q171 Transmission Line  
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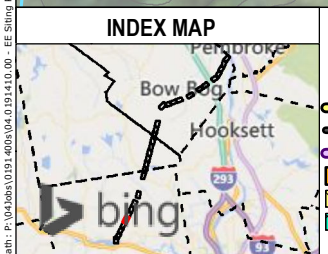
Date: June, 2022      **4 OF 31**

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<b>Disturbance Type</b>	<b>Impact (sq. ft)</b>
New Access	130,030
Gravel Work Pad	361,624
<b>Total AoT Disturbed Area</b>	<b>491,654</b>
-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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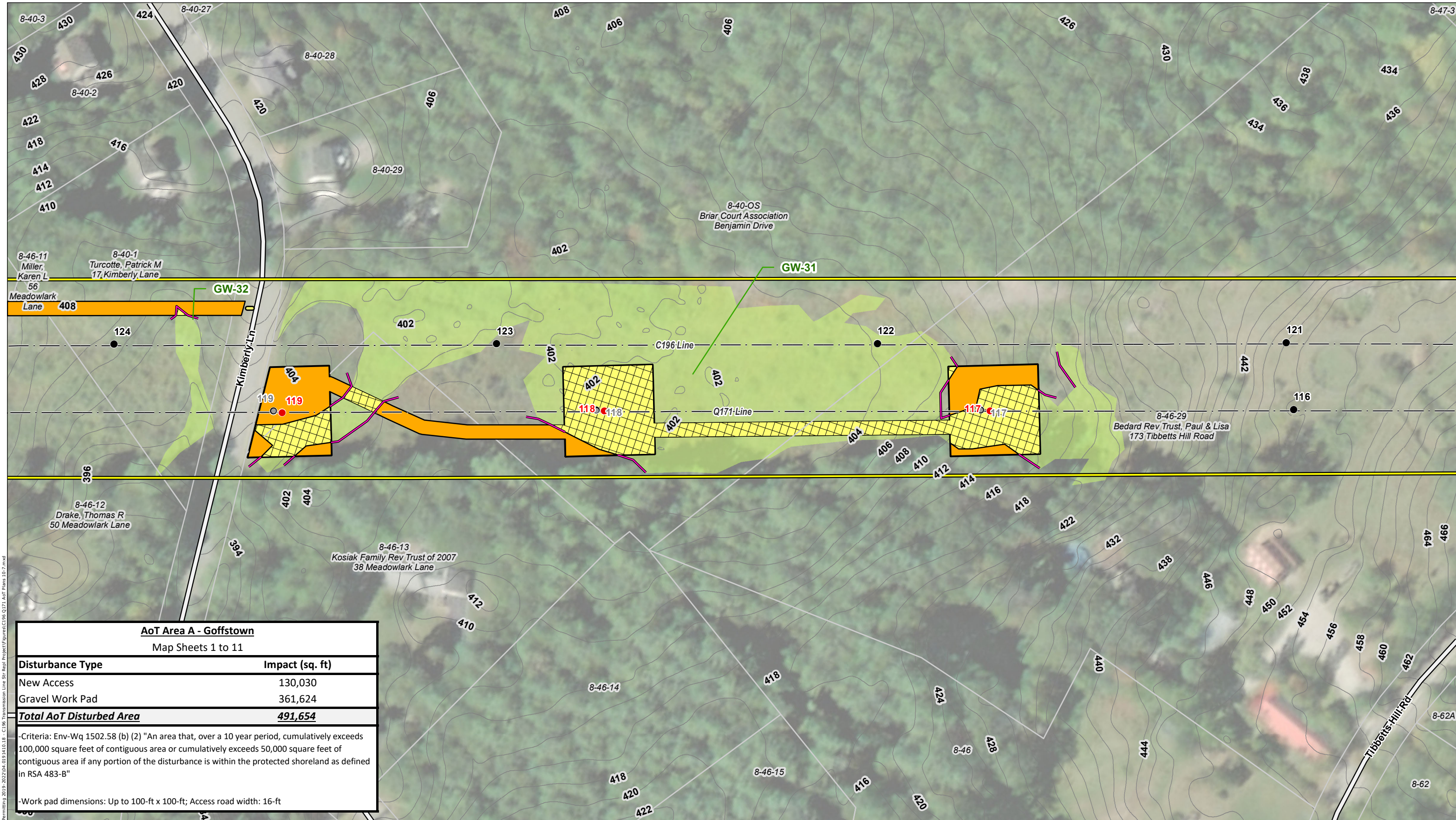
**C196 and Q171 Transmission Line Structure Replacement Project**  
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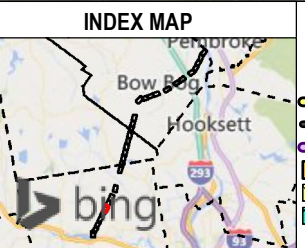
**AoT Area A - Goffstown**  
Map Sheets 1 to 11

Disturbance Type	Impact (sq. ft)
New Access	130,030
Gravel Work Pad	361,624
<b>Total AoT Disturbed Area</b>	<b>491,654</b>

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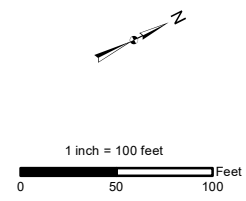
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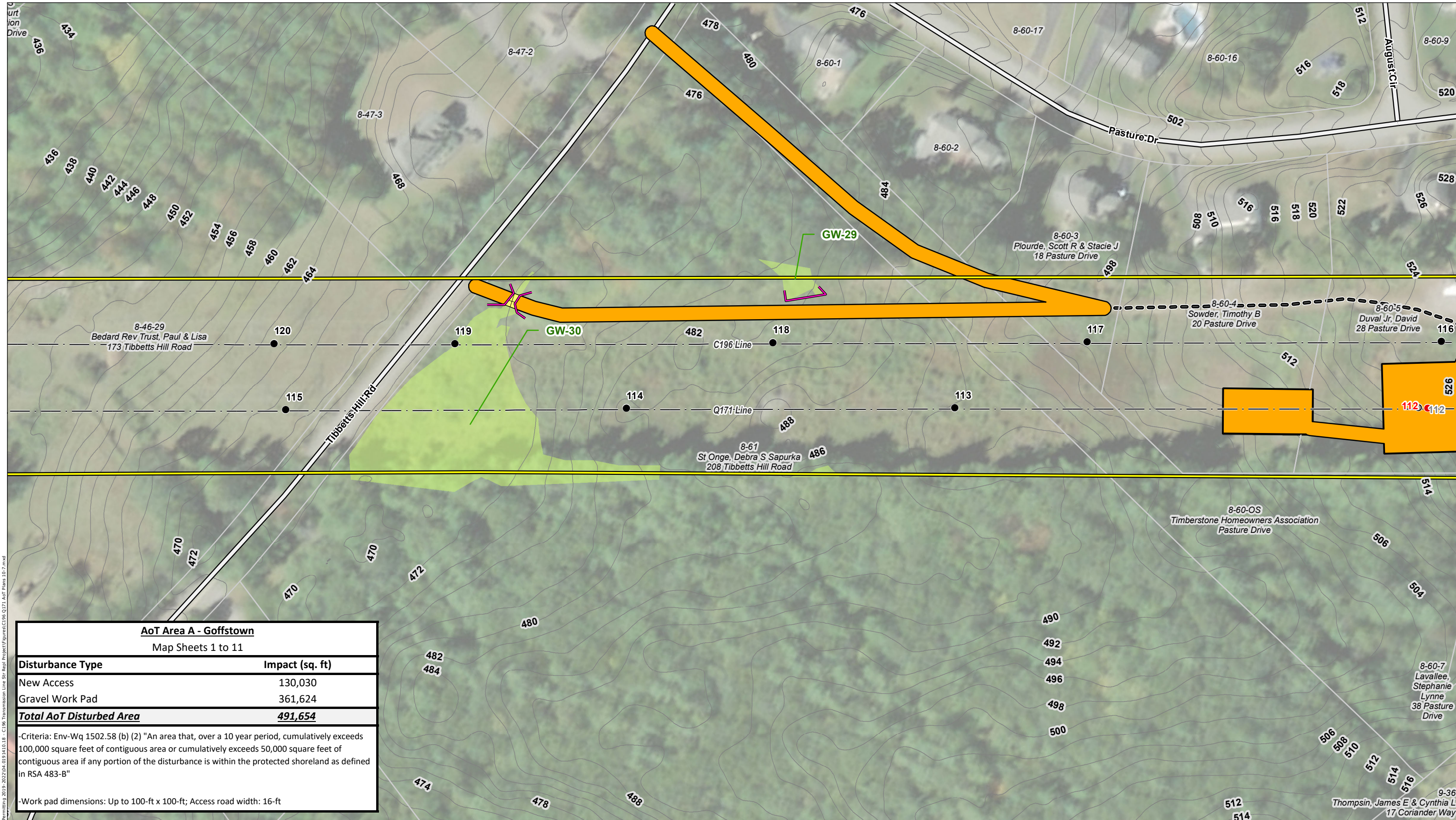
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**C196 and Q171 Transmission Line Structure Replacement Project**  
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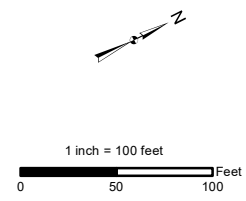


AoT Area A - Goffstown	
Map Sheets 1 to 11	
<b>Disturbance Type</b>	<b>Impact (sq. ft)</b>
New Access	130,030
Gravel Work Pad	361,624
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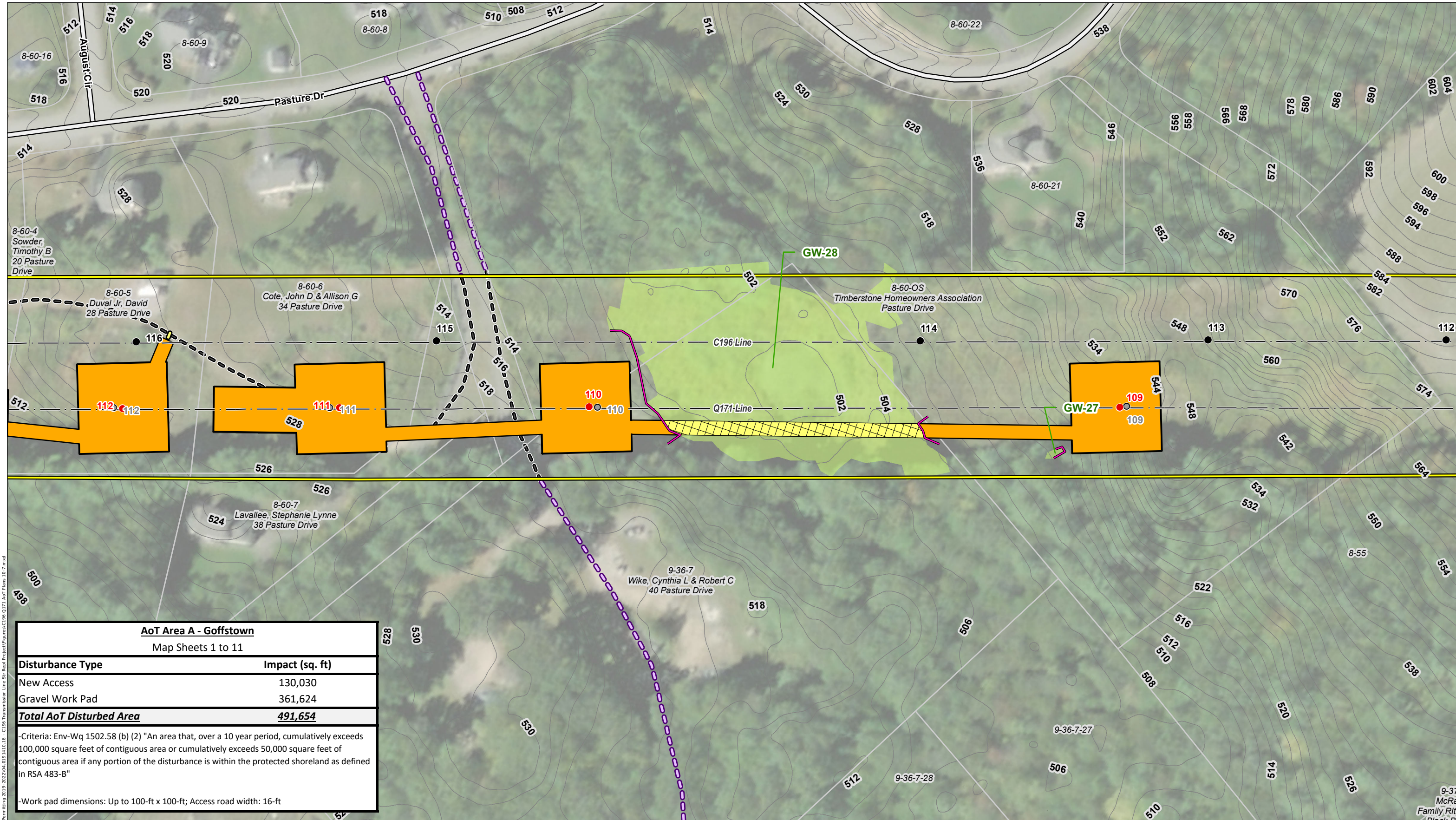
**C196 and Q171 Transmission Line Structure Replacement Project**  
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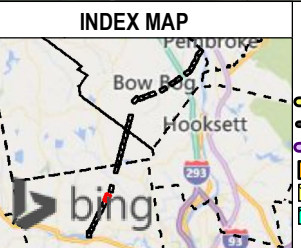
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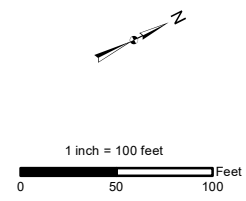
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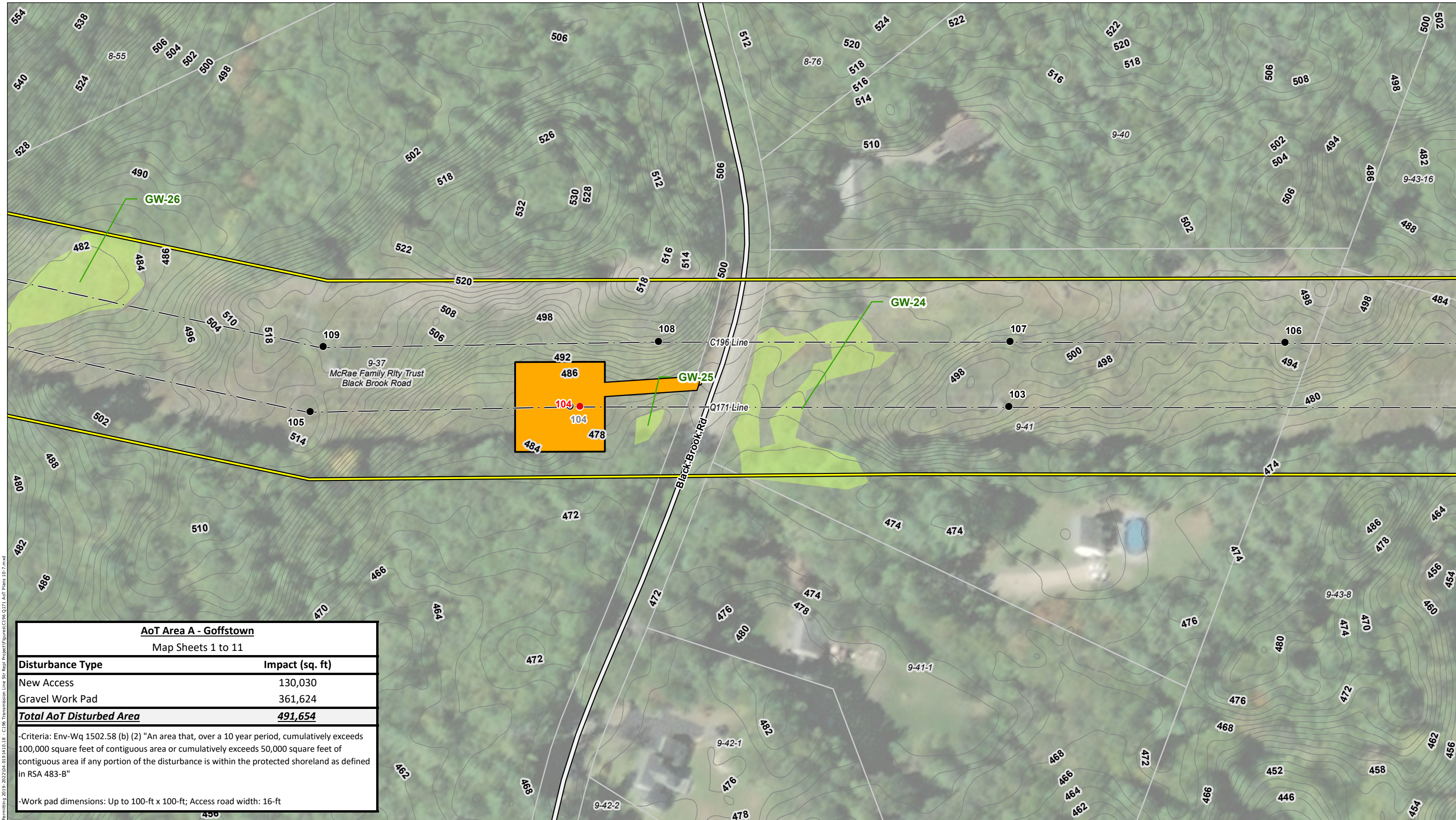
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**C196 and Q171 Transmission Line Structure Replacement Project**  
**Alternation of Terrain Permitting Plans**

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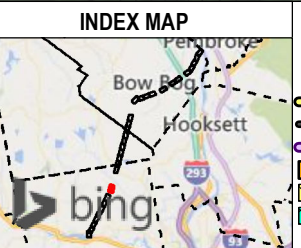
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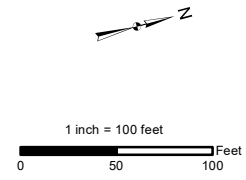
AoT Area A - Goffstown	
Map Sheets 1 to 11	
<b>Disturbance Type</b>	<b>Impact (sq. ft)</b>
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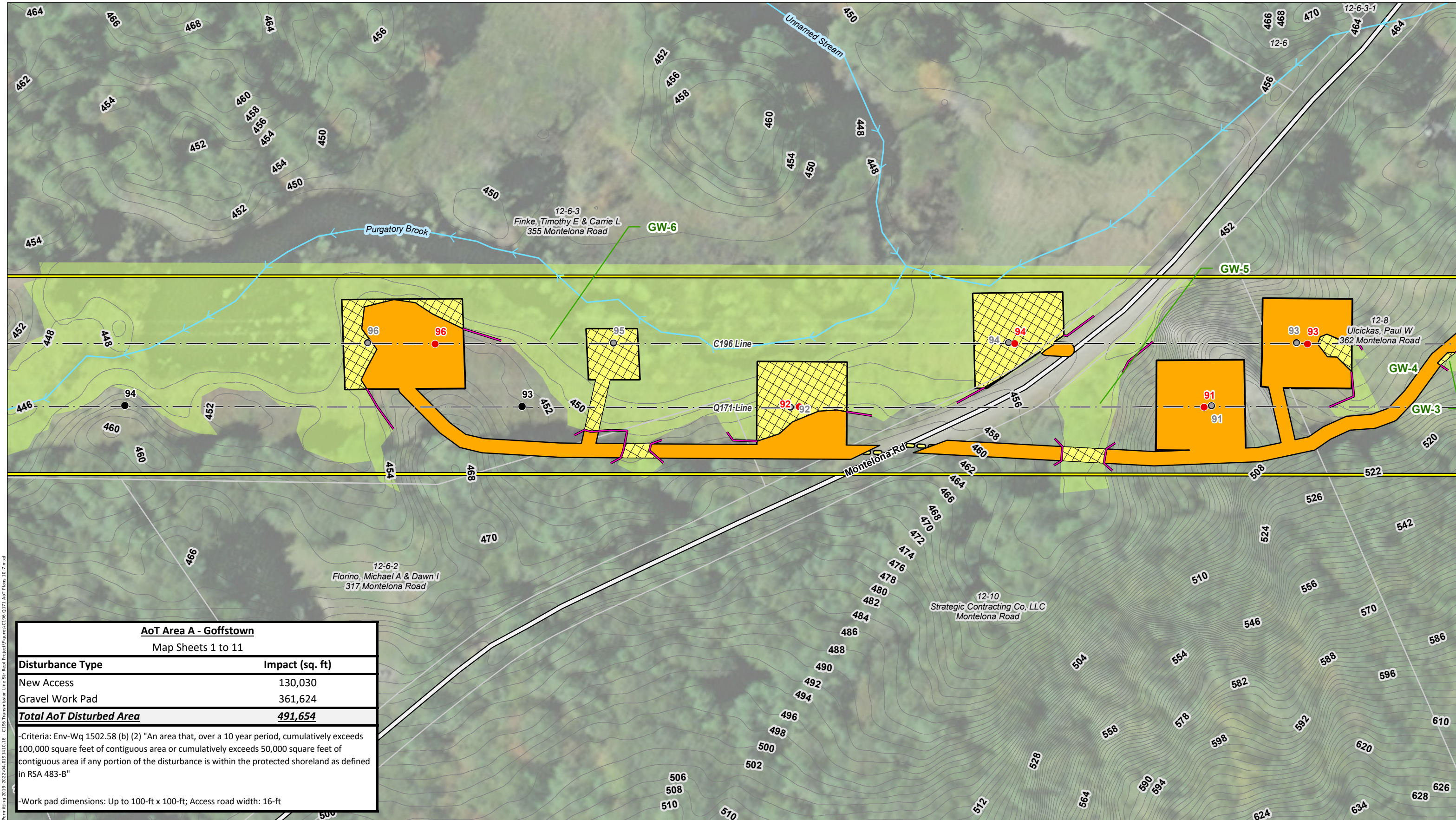
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**EVSOURCE ENERGY**

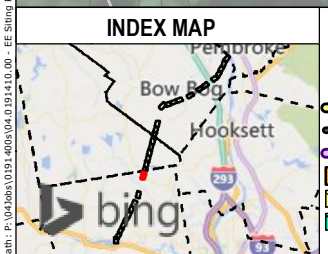
**C196 and Q171 Transmission Line Structure Replacement Project**  
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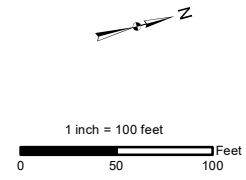


AoT Area A - Goffstown	
Map Sheets 1 to 11	
<b>Disturbance Type</b>	<b>Impact (sq. ft)</b>
New Access	130,030
Gravel Work Pad	361,624
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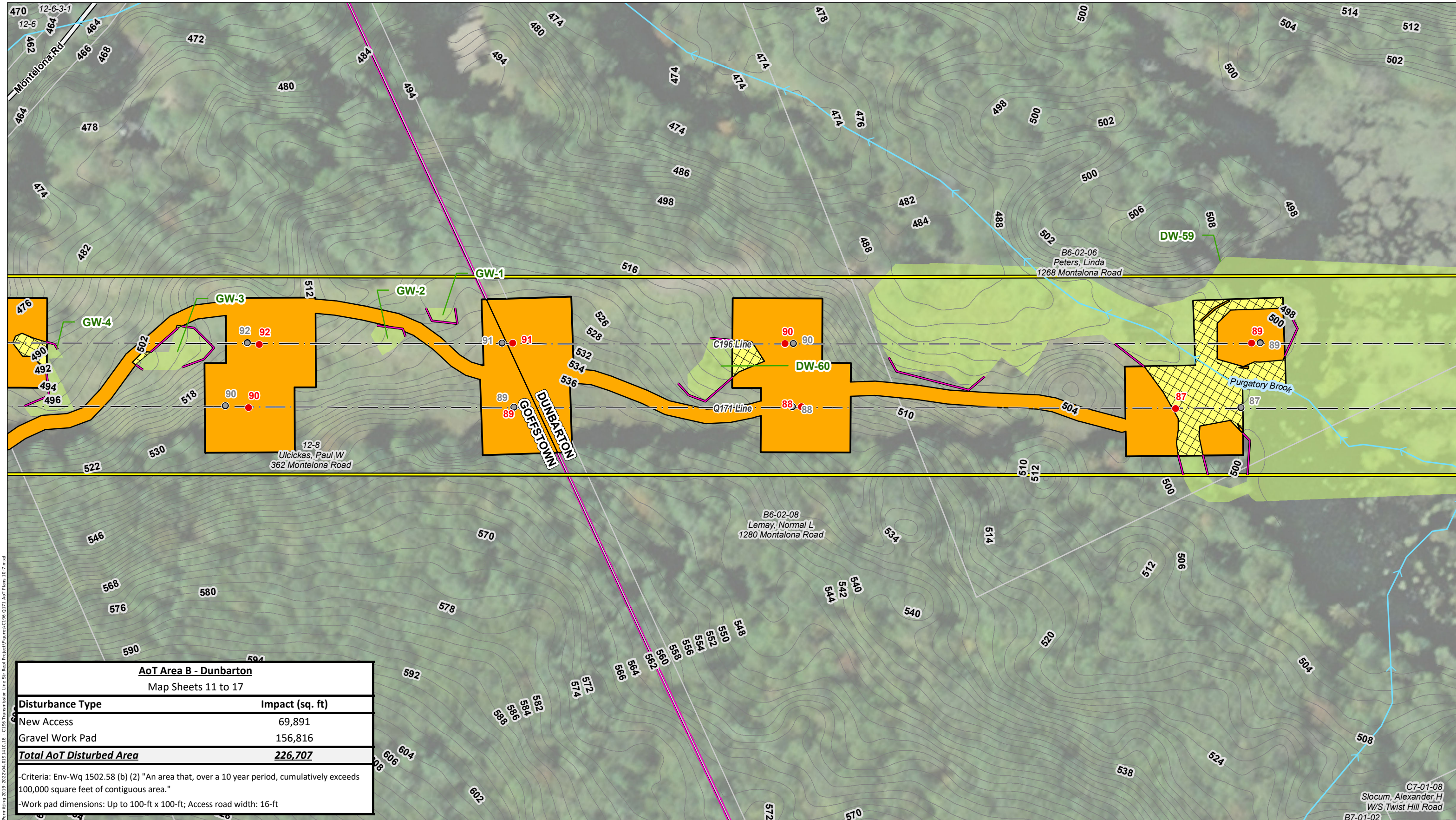
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**C196 and Q171 Transmission Line Structure Replacement Project**  
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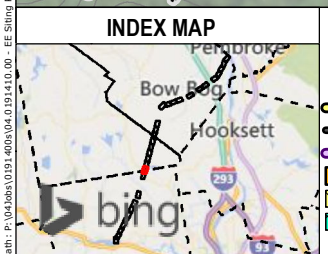
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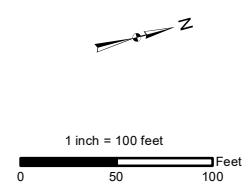
AoT Area B - Dunbarton	
Map Sheets 11 to 17	
Disturbance Type	Impact (sq. ft)
New Access	69,891
Gravel Work Pad	156,816
<b>Total AoT Disturbed Area</b>	<b>226,707</b>

-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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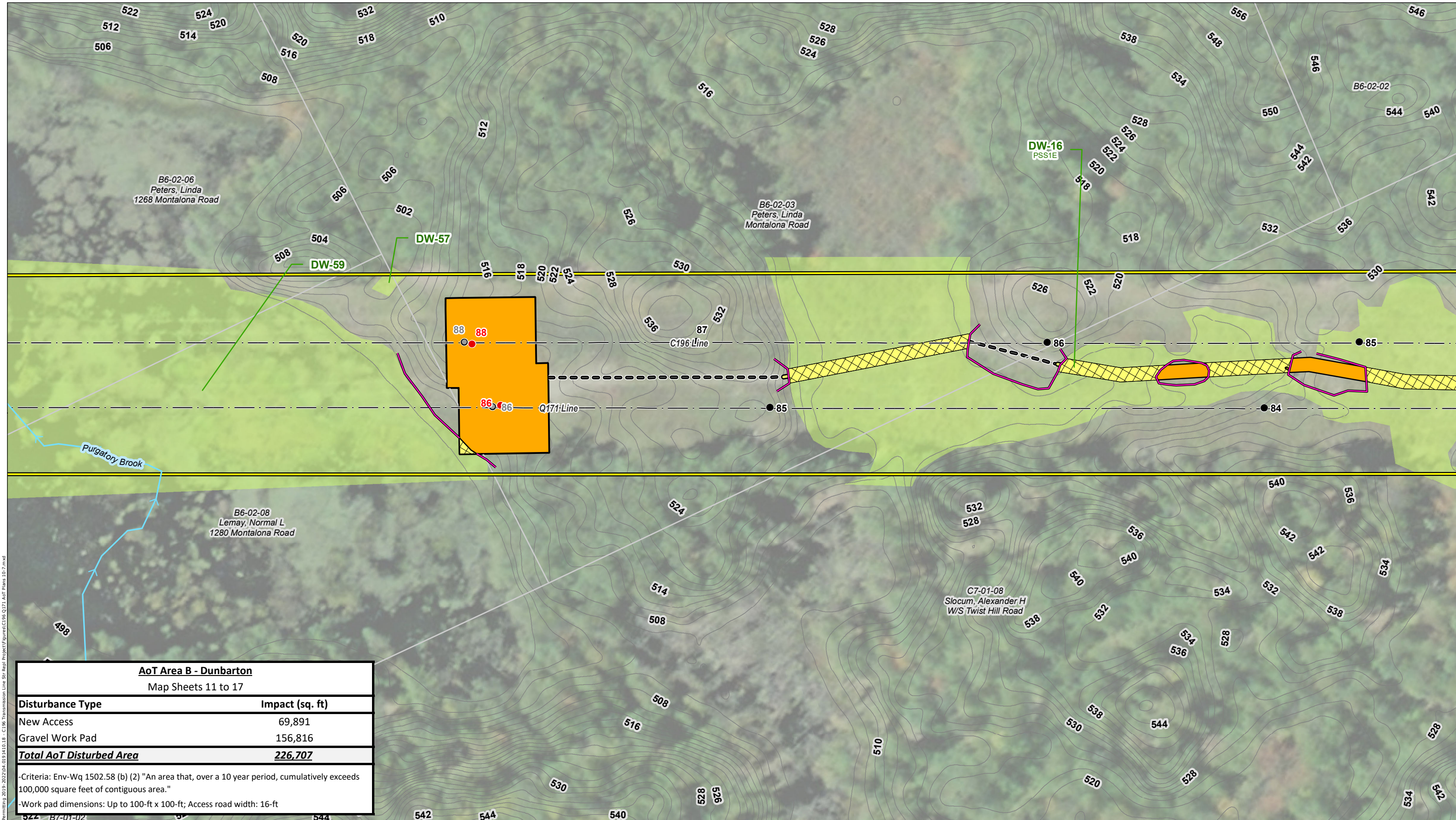
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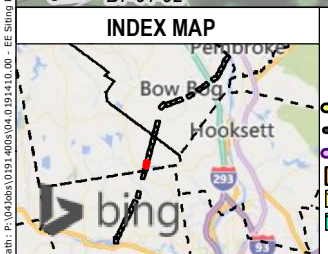
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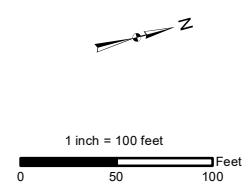
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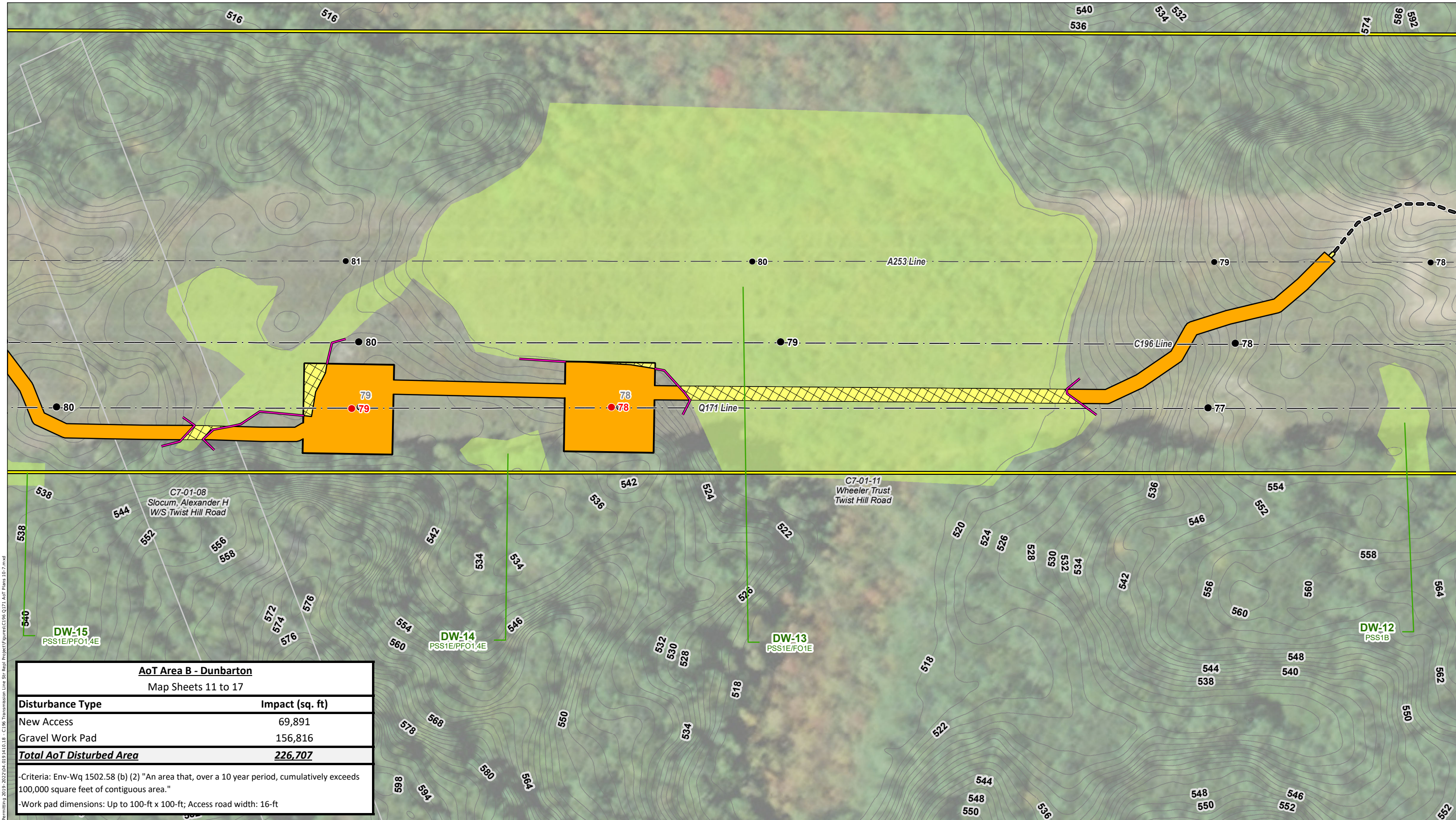
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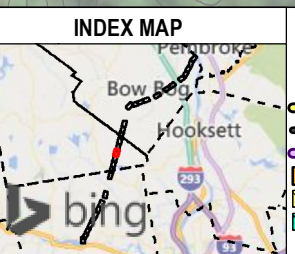




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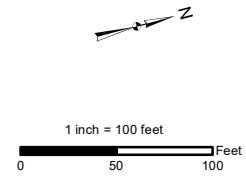
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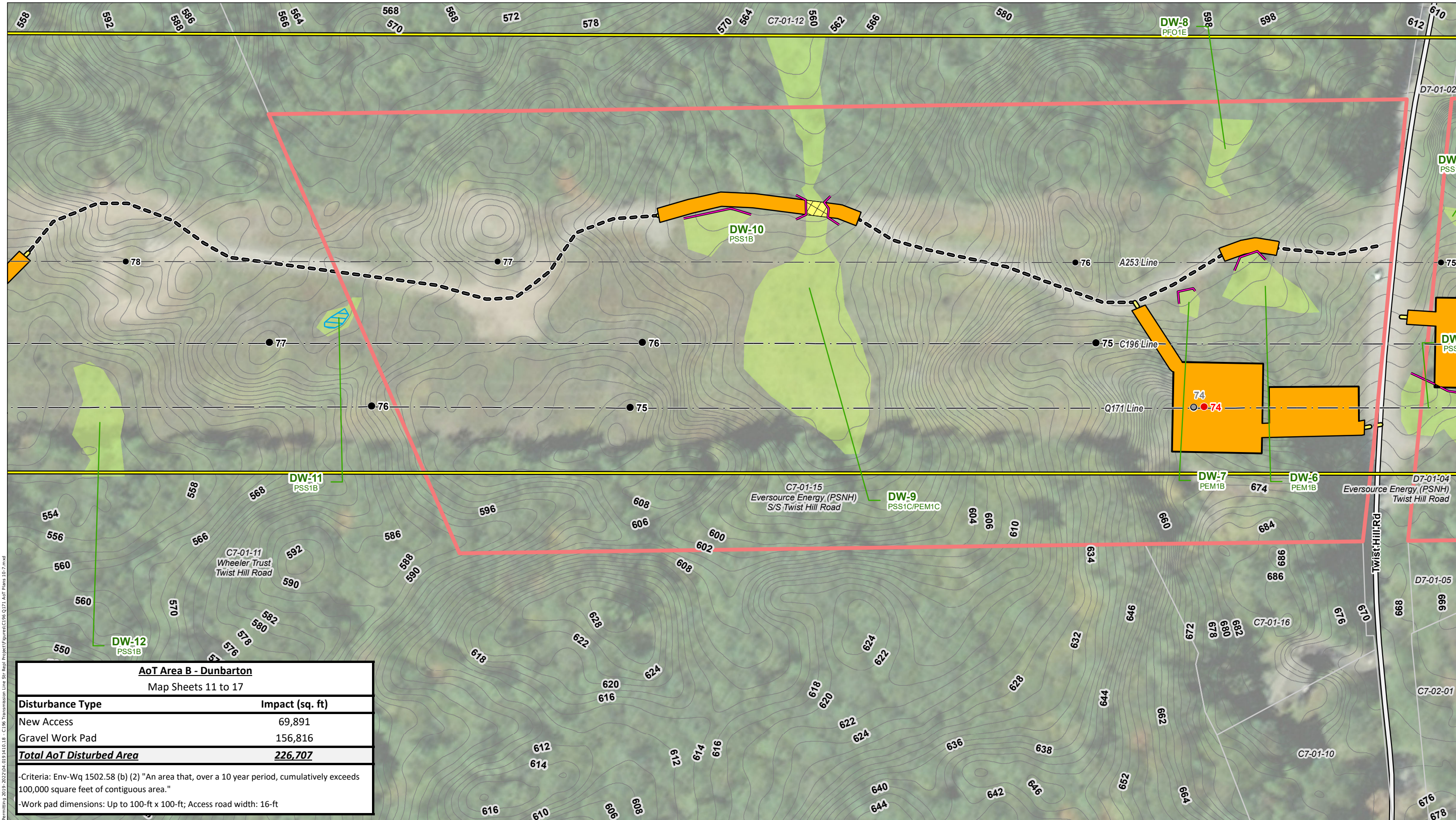
NO.	DATE	REVISIONS

**EVERSOURCE ENERGY**

**C196 and Q171 Transmission Line Structure Replacement Project**  
**Alternation of Terrain Permitting Plans**

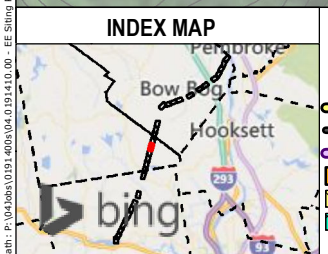
Dunbarton, NH	MAP SHEET
Date: June, 2022	<b>14 OF 31</b>





AoT Area B - Dunbarton	
Map Sheets 11 to 17	
Disturbance Type	Impact (sq. ft.)
New Access	69,891
Gravel Work Pad	156,816
<b>Total AoT Disturbed Area</b>	<b>226,707</b>

-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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1 inch = 100 feet

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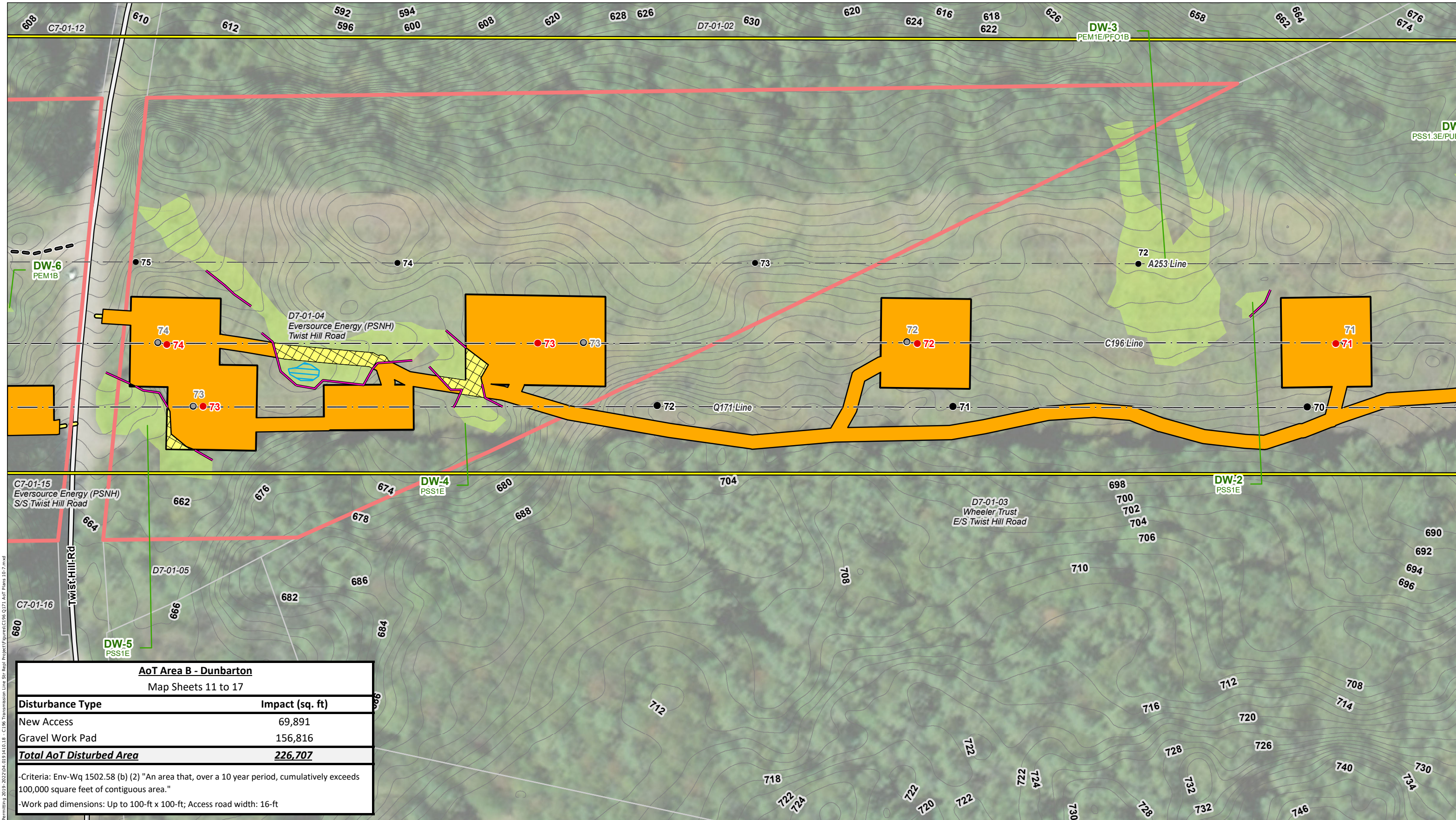
**C196 and Q171 Transmission Line Structure Replacement Project**  
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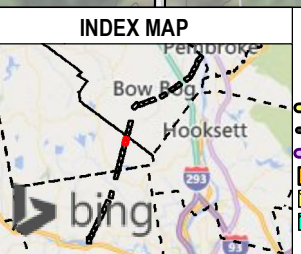
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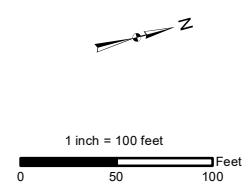
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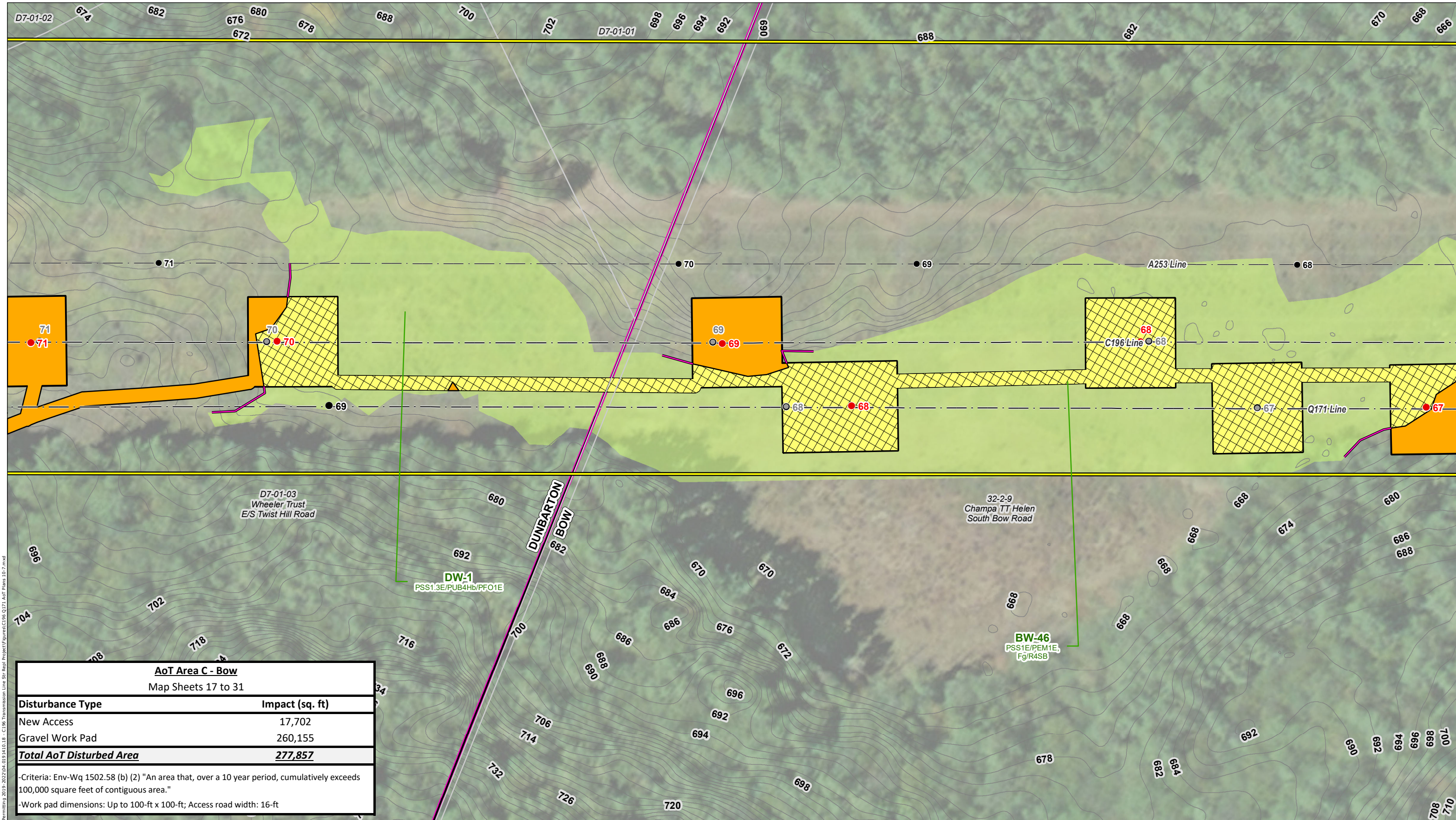
**EVERSOURCE ENERGY**

**C196 and Q171 Transmission Line Structure Replacement Project**  
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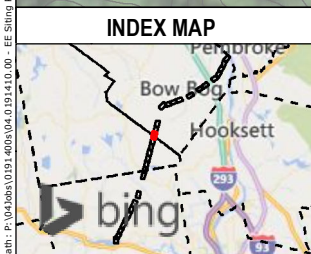
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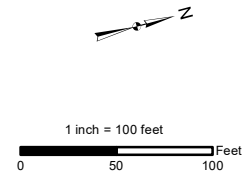


AoT Area C - Bow	
Map Sheets 17 to 31	
Disturbance Type	Impact (sq. ft)
New Access	17,702
Gravel Work Pad	260,155
<b>Total AoT Disturbed Area</b>	<b>277,857</b>
-Criteria: Env-Wq 1502.58 (b) (2) "An area that, over a 10 year period, cumulatively exceeds 100,000 square feet of contiguous area."	
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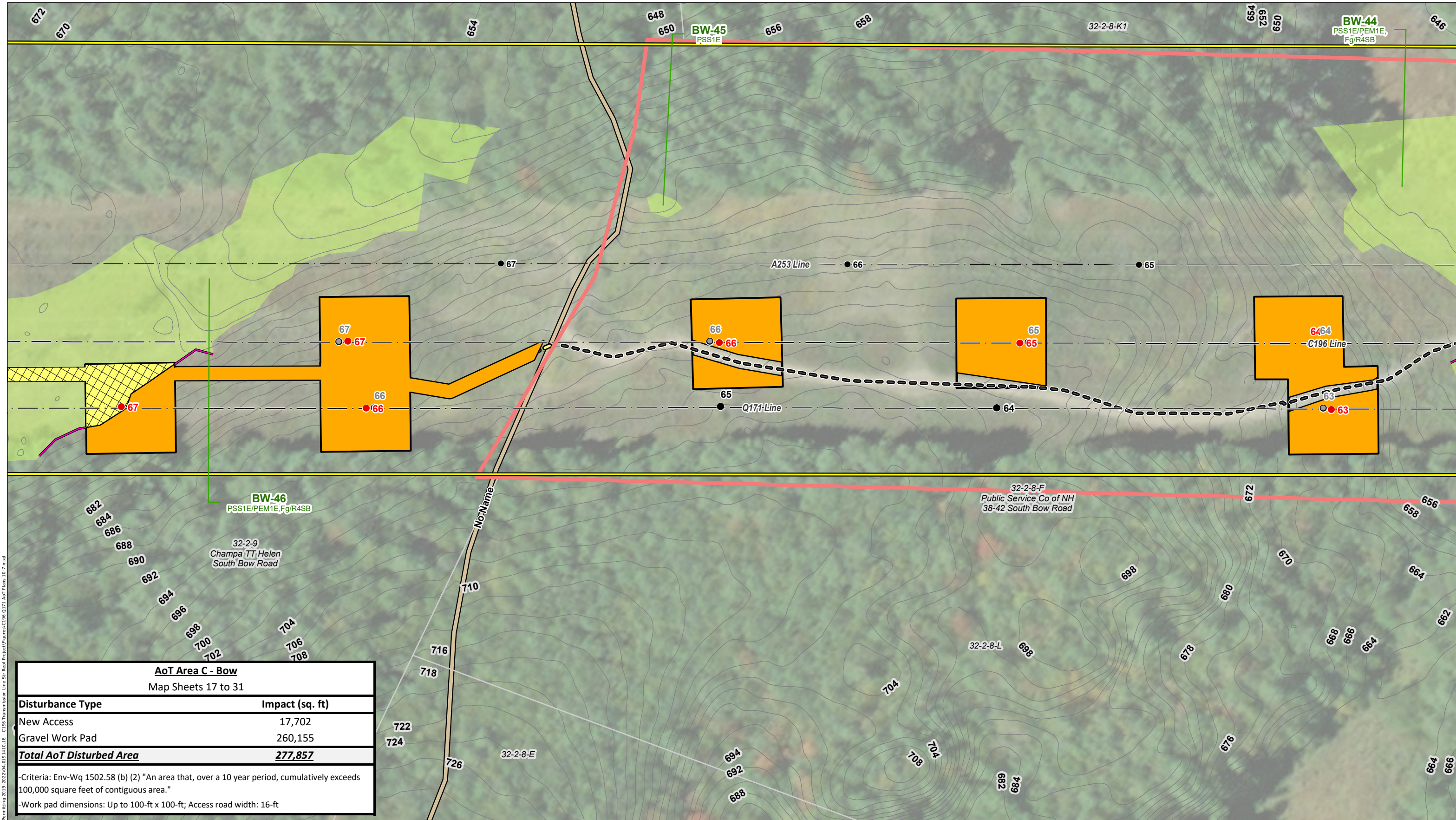
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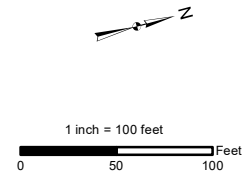
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**INDEX MAP**

● PROPOSED STRUCTURE REPLACEMENT	— TOWN MAINTAINED ROAD	■ FIELD DELINEATED WETLAND
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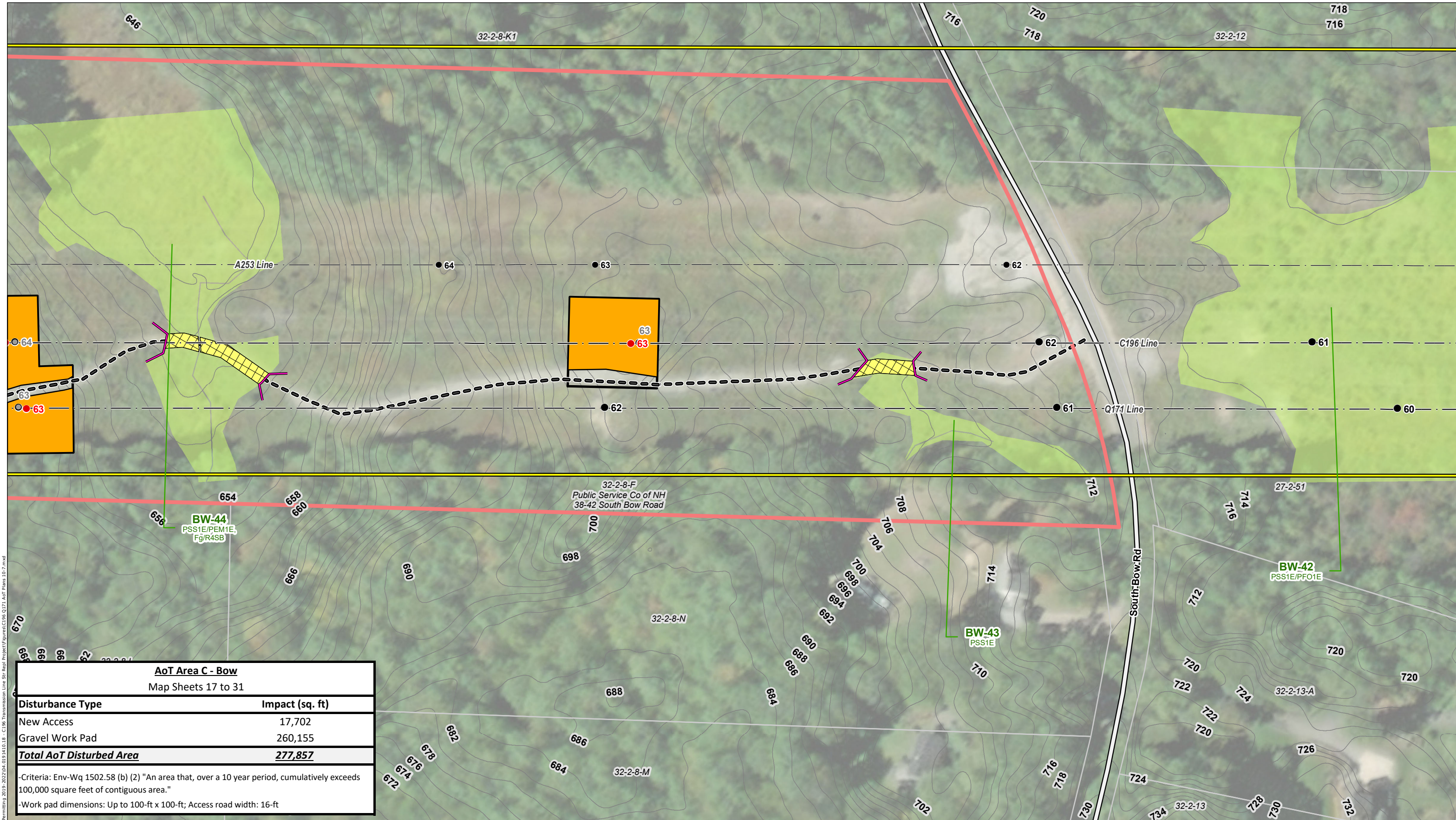
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**EVERSOURCE ENERGY**

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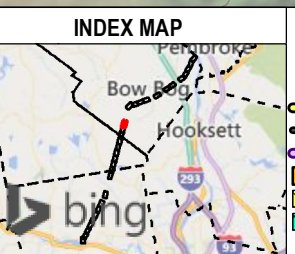
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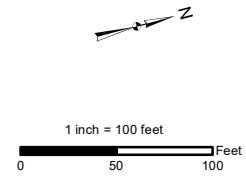
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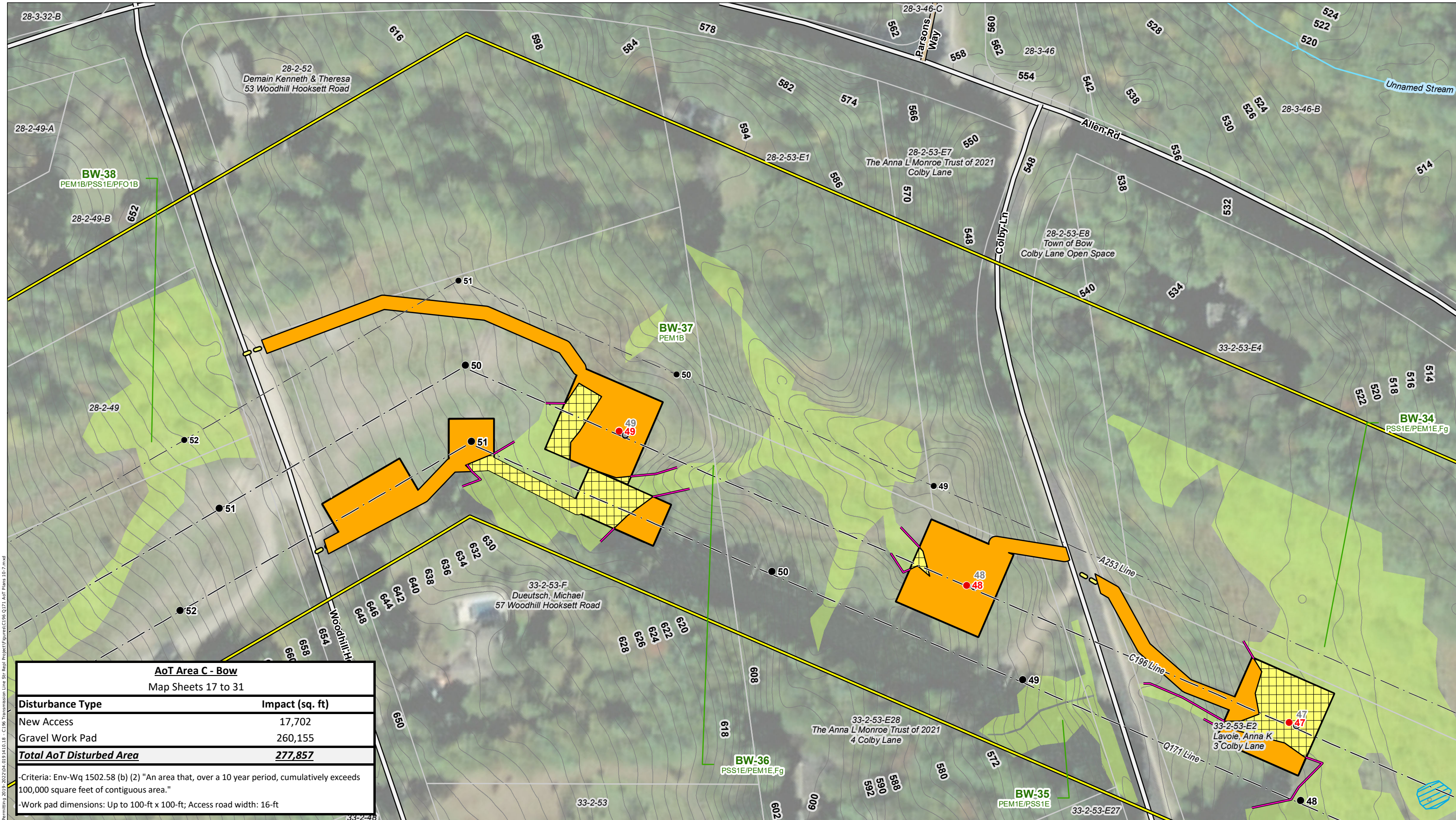
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**EVSOURCE ENERGY**

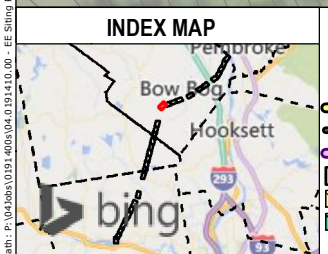
**C196 and Q171 Transmission Line Structure Replacement Project**  
**Alternation of Terrain Permitting Plans**

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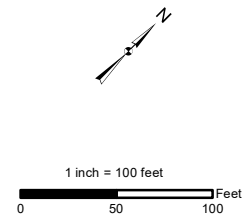


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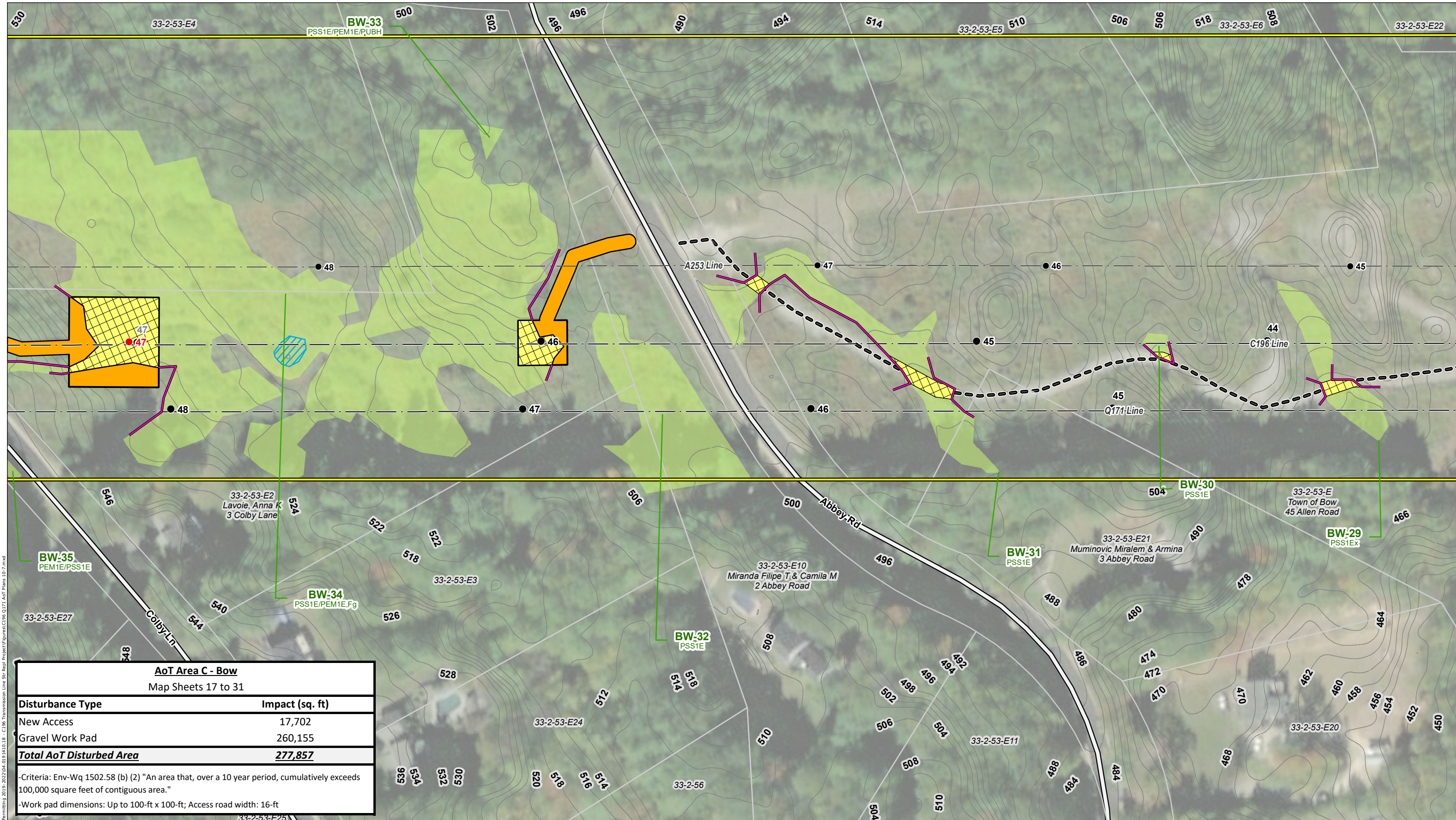
**EVSOURCE ENERGY**

**C196 and Q171 Transmission Line  
Structure Replacement Project  
Alternation of Terrain Permitting Plans**

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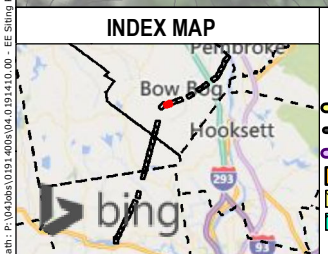
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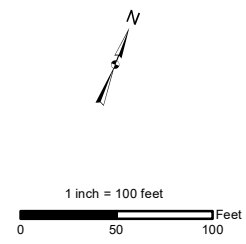
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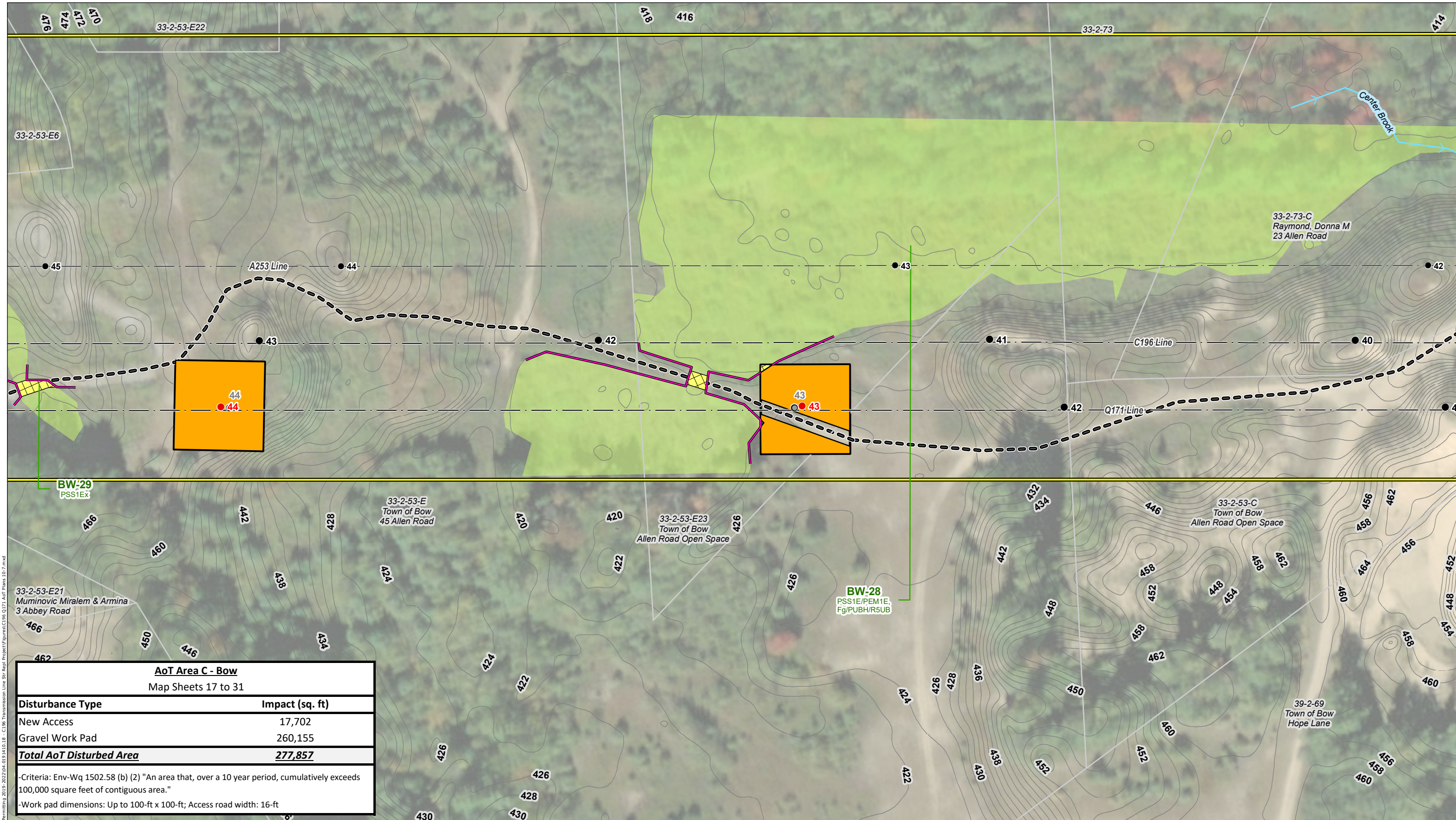
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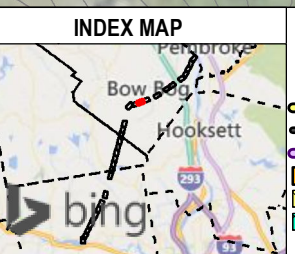
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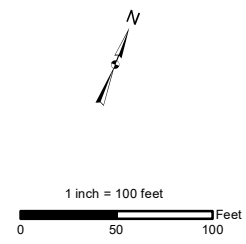
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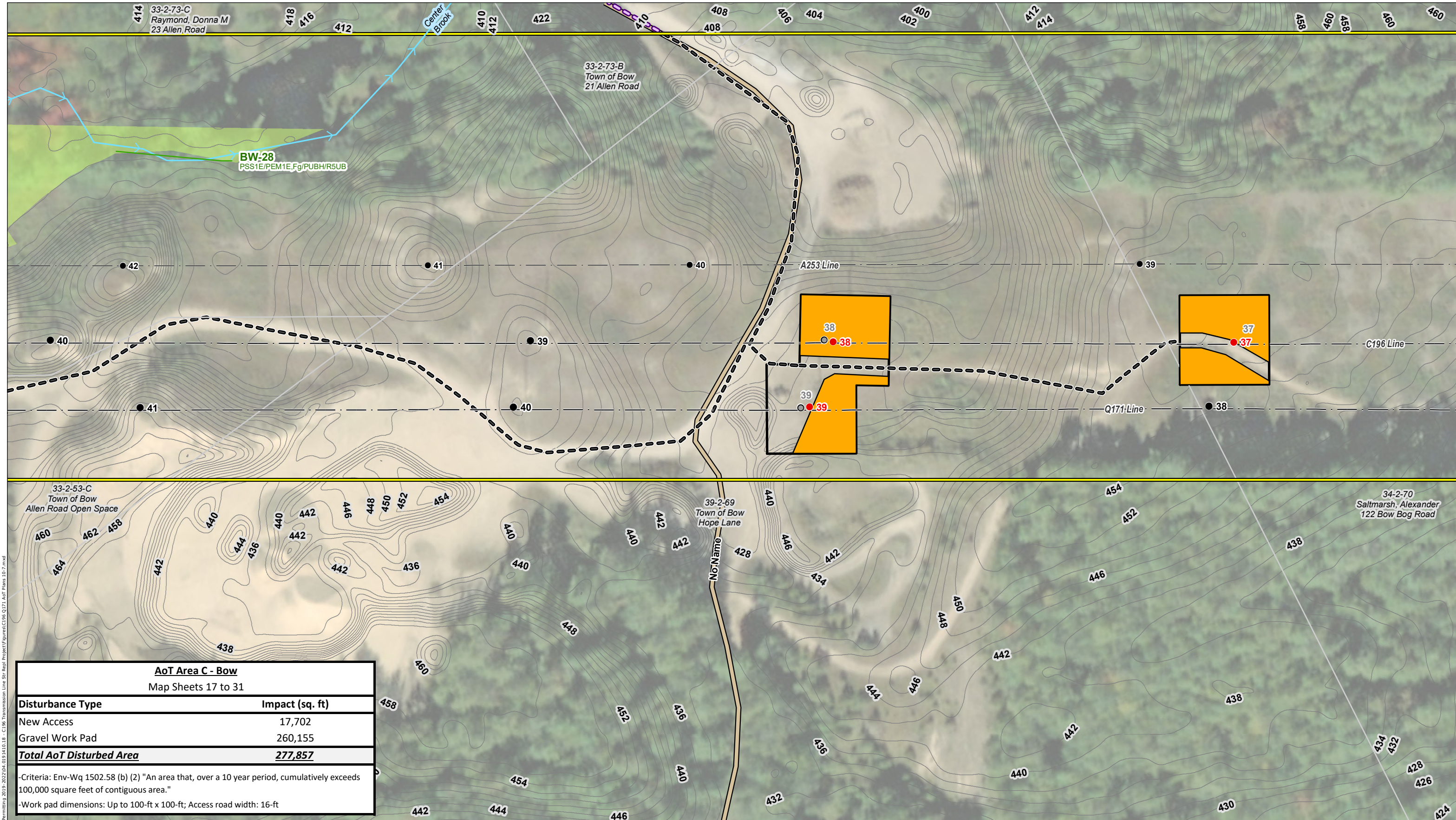
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**C196 and Q171 Transmission Line Structure Replacement Project**  
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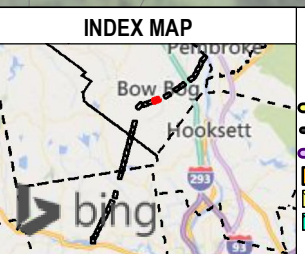


**AoT Area C - Bow**  
Map Sheets 17 to 31

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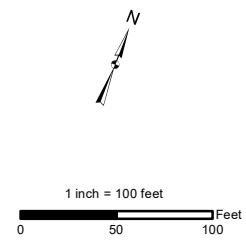
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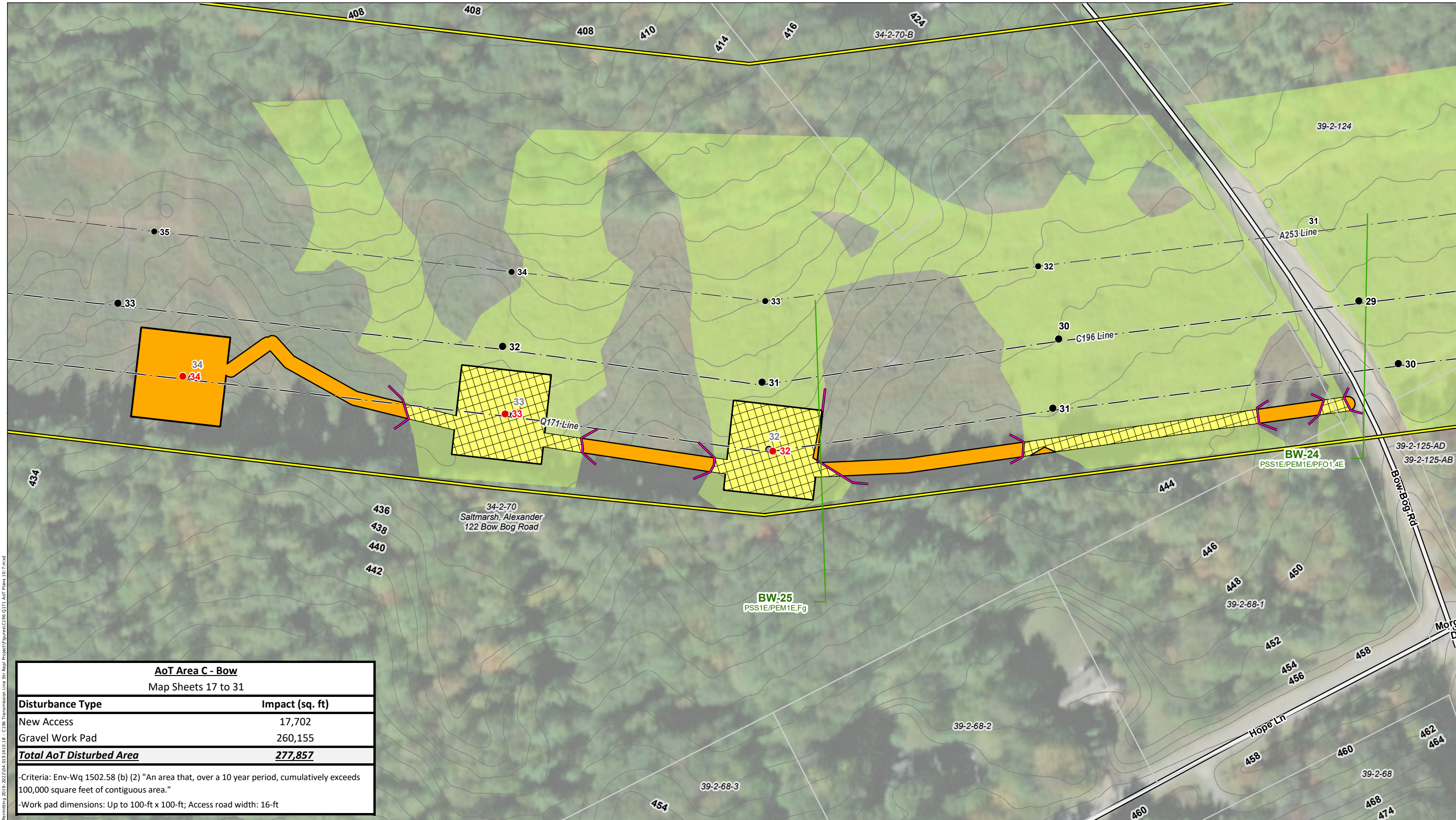
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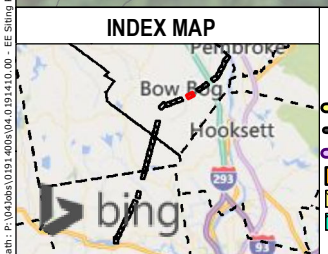
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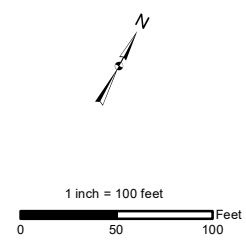


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**EVERSOURCE ENERGY**

**C196 and Q171 Transmission Line Structure Replacement Project**  
**Alternation of Terrain Permitting Plans**

Bow, NH	MAP SHEET
Date: June, 2022	<b>24 OF 31</b>

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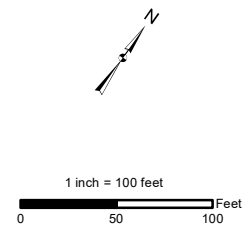


AoT Area C - Bow	
Map Sheets 17 to 31	
Disturbance Type	Impact (sq. ft)
New Access	17,702
Gravel Work Pad	260,155
<b>Total AoT Disturbed Area</b>	<b>277,857</b>
-Criteria: Env-Wq 1502.58 (b) (2) "An area that, over a 10 year period, cumulatively exceeds 100,000 square feet of contiguous area."	
-Work pad dimensions: Up to 100-ft x 100-ft; Access road width: 16-ft	

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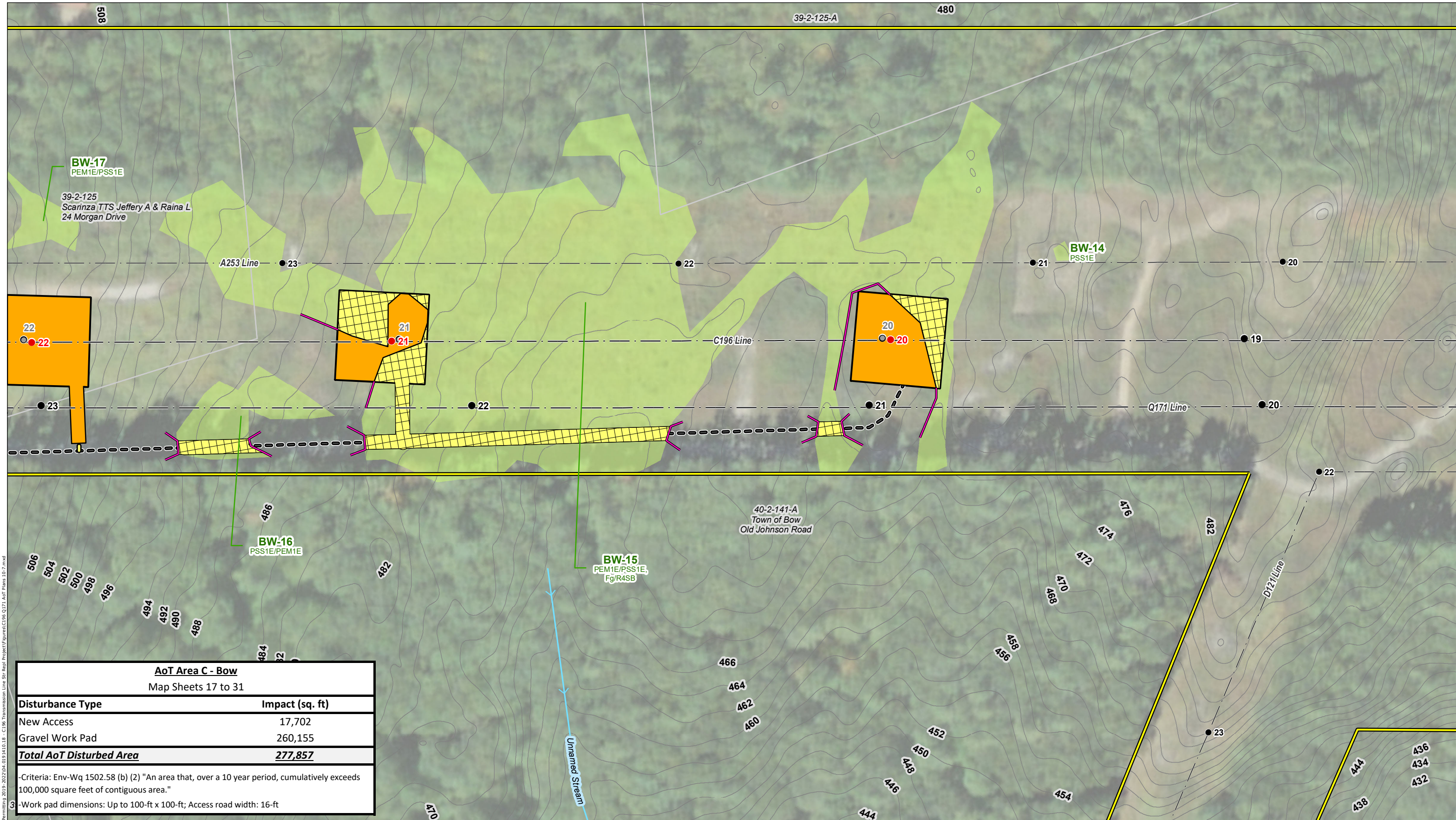
**C196 and Q171 Transmission Line Structure Replacement Project**  
**Alternation of Terrain Permitting Plans**

Bow, NH      MAP SHEET

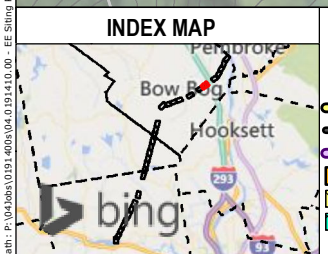
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- FIELD DELINEATED WETLAND

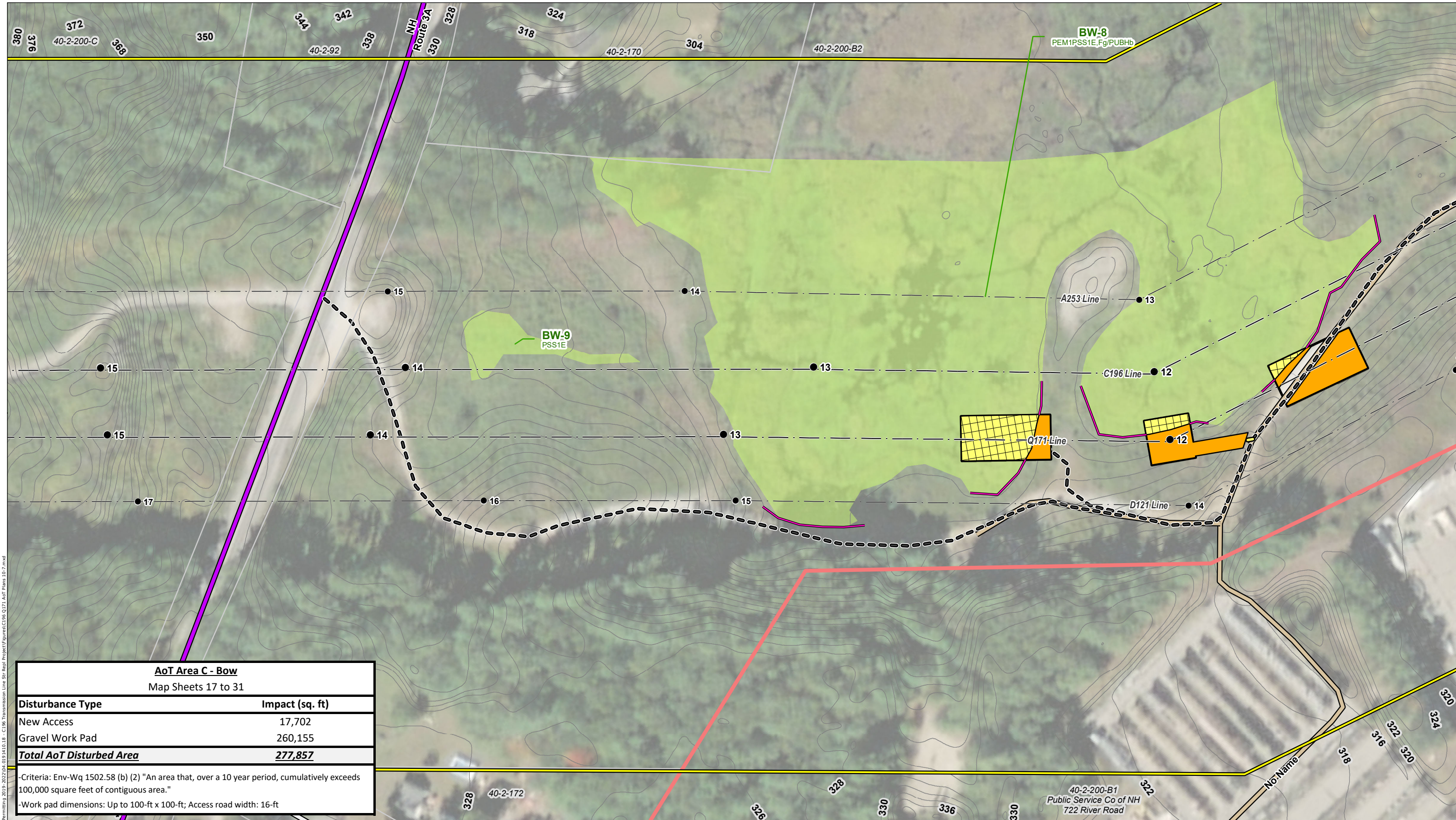
1 inch = 100 feet

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<b>C196 and Q171 Transmission Line Structure Replacement Project</b>	
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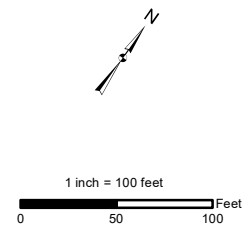
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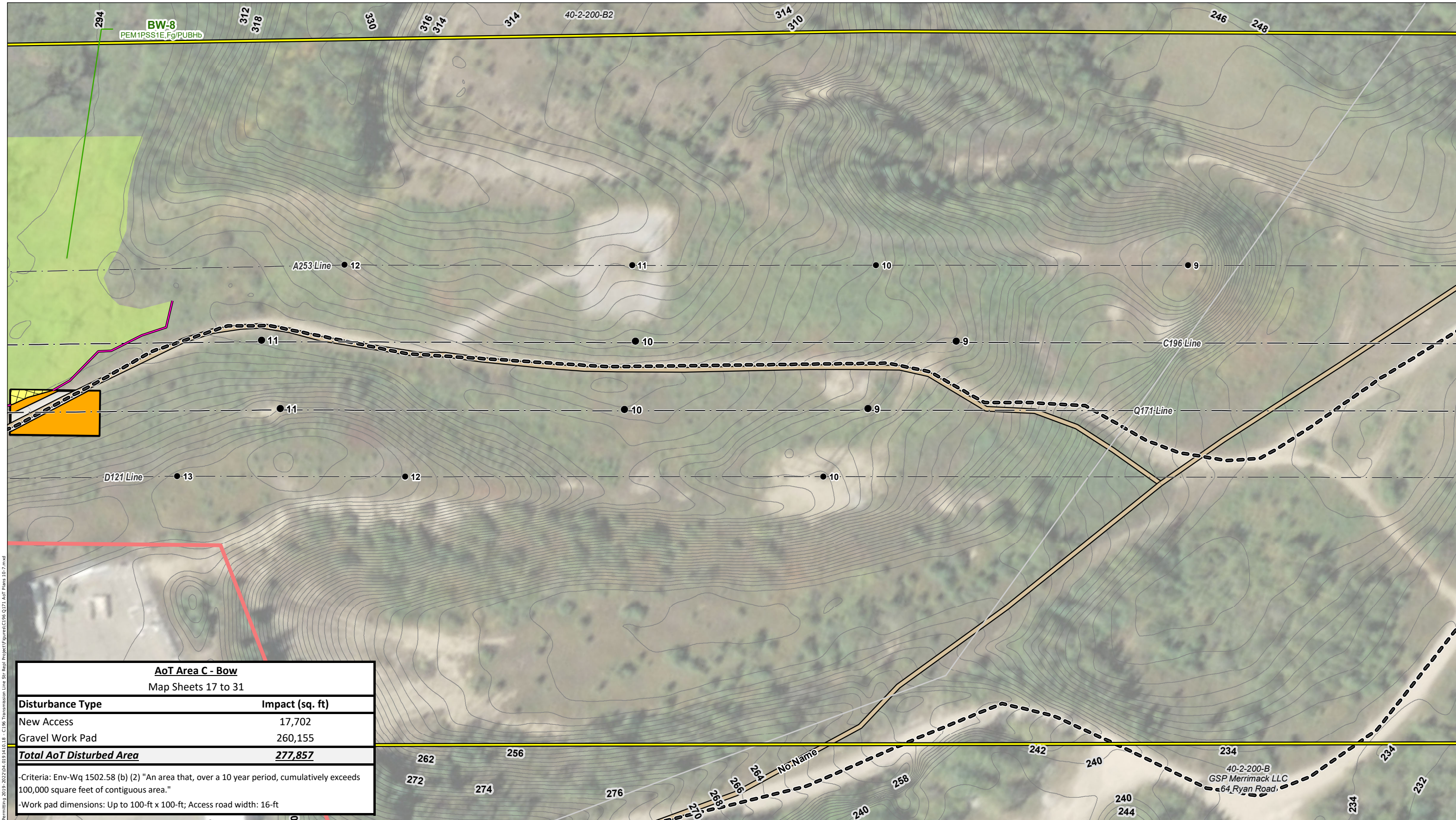
**EVERSOURCE ENERGY**

**C196 and Q171 Transmission Line Structure Replacement Project**  
**Alternation of Terrain Permitting Plans**

Bow, NH      MAP SHEET

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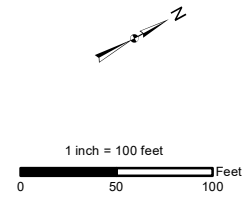
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**C196 and Q171 Transmission Line Structure Replacement Project**  
**Alternation of Terrain Permitting Plans**

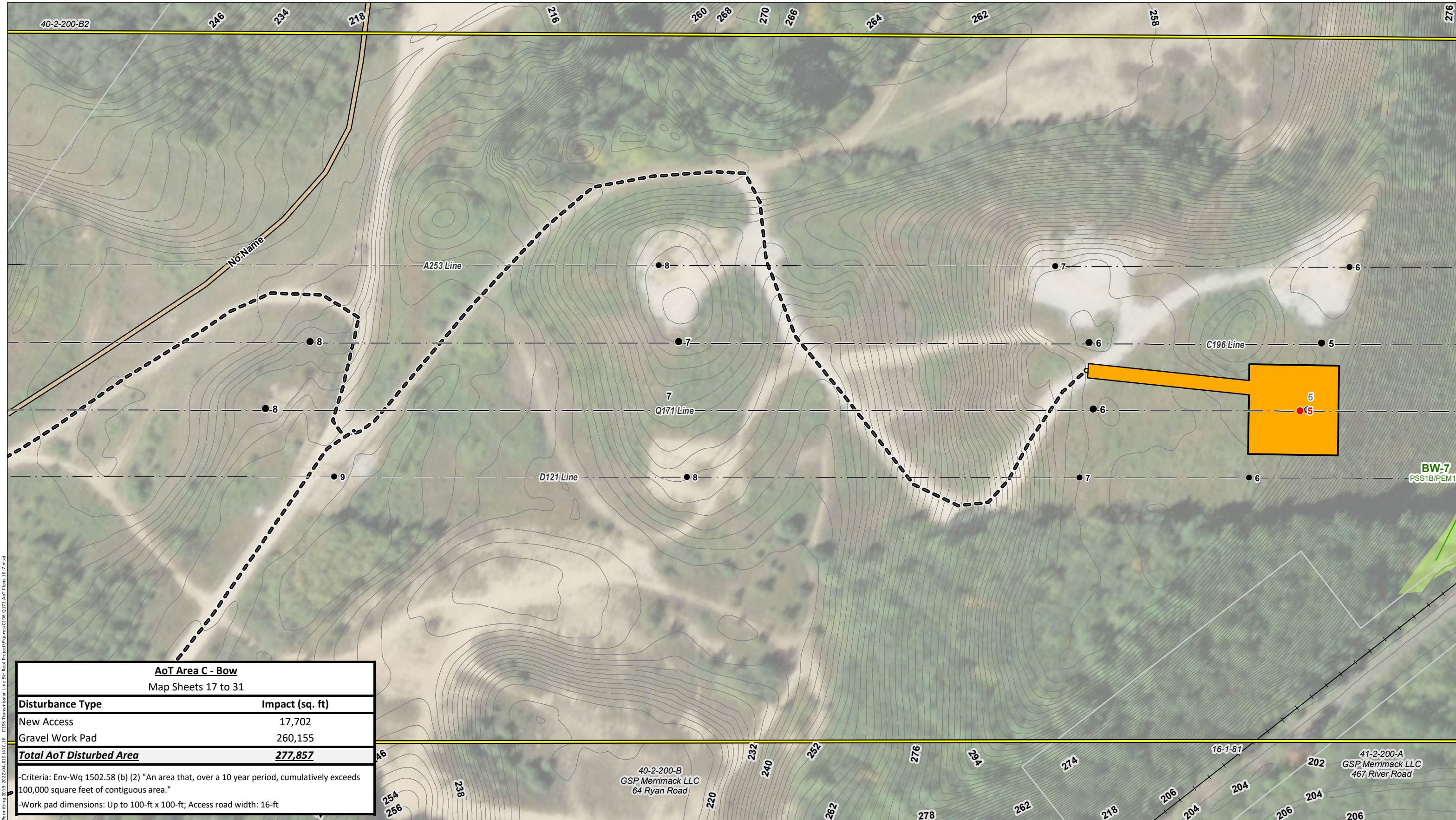
Bow, NH

Date: June, 2022

MAP SHEET

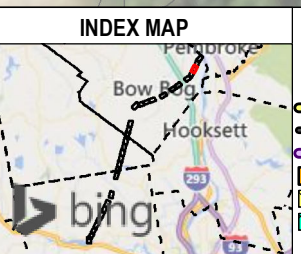
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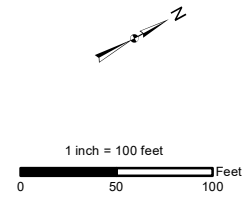


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40-2-200-B  
GSP Merrimack LLC  
64 Ryan Road

41-2-200-A  
GSP Merrimack LLC  
467 River Road

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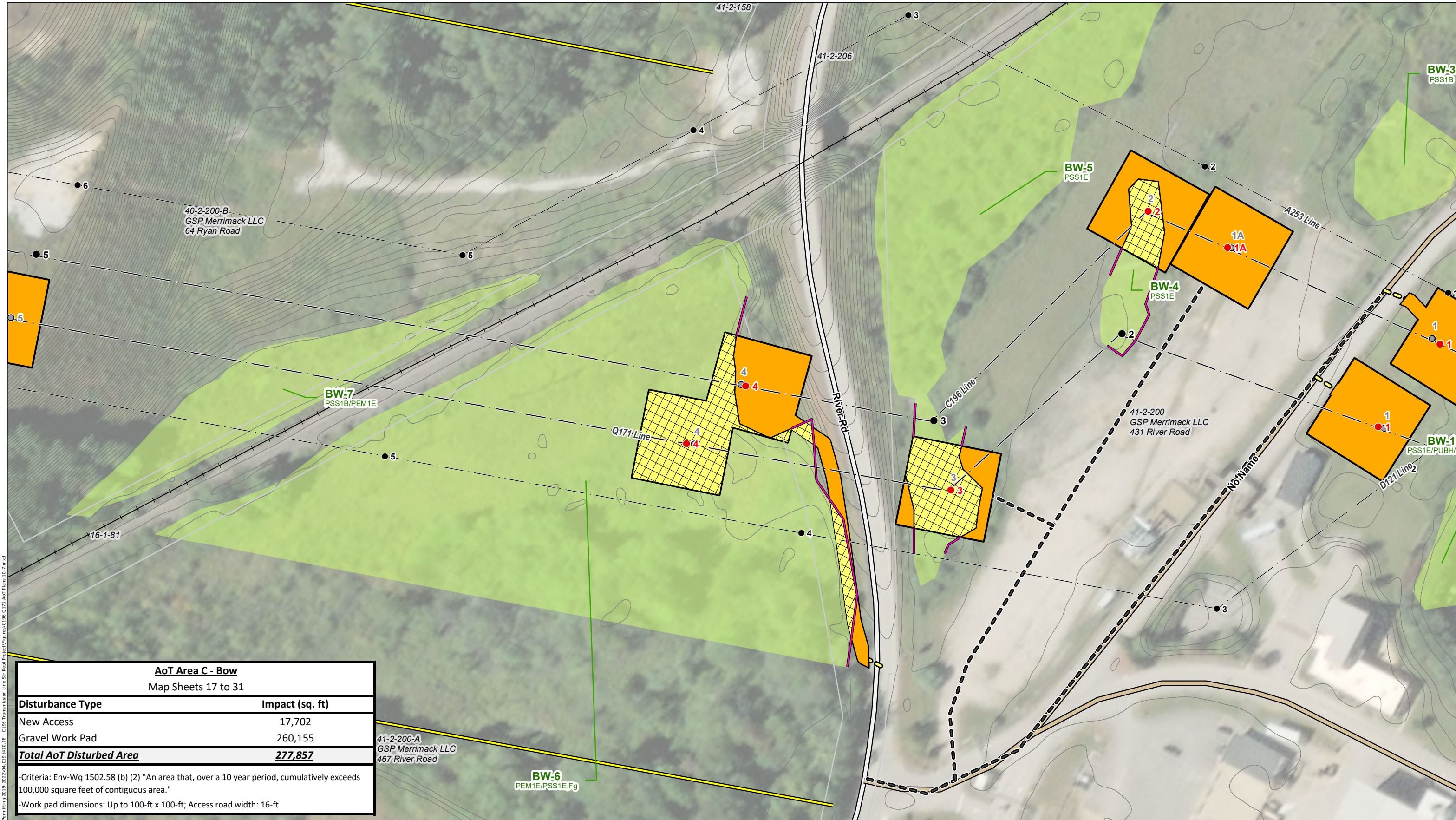
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**EVERSOURCE ENERGY**

**C196 and Q171 Transmission Line  
Structure Replacement Project  
Alternation of Terrain Permitting Plans**

Bow, NH	MAP SHEET
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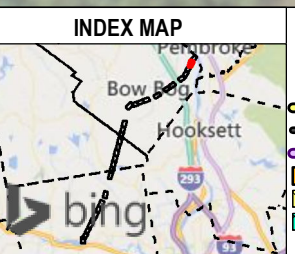




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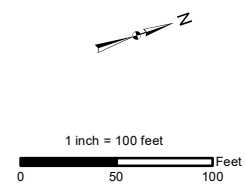
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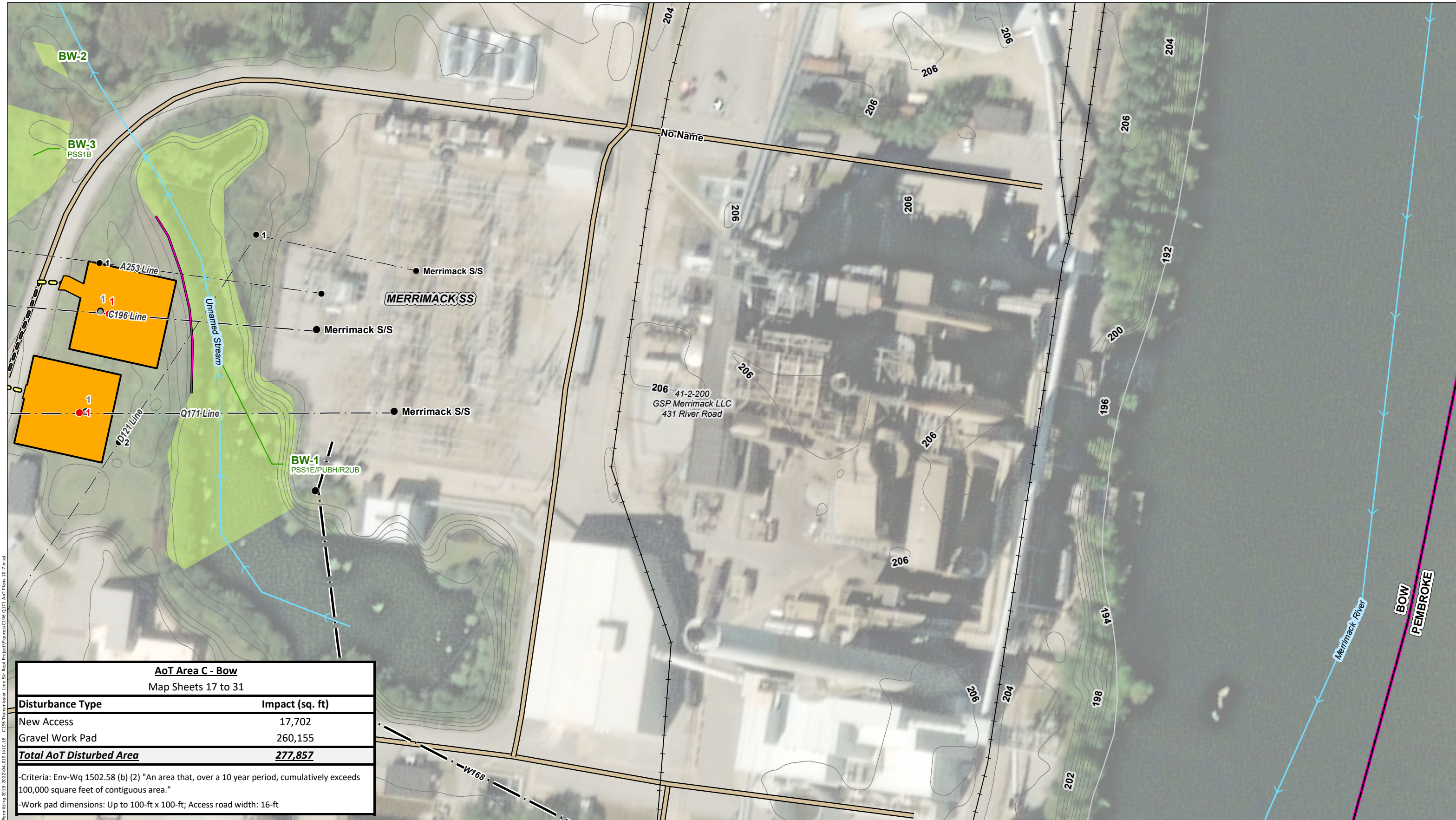
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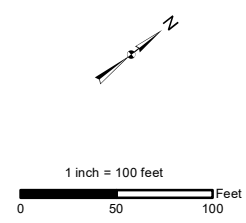


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Bow, NH      MAP SHEET

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**CONSTRUCTION SEQUENCE:**

1. WETLAND BOUNDARIES TO BE CLEARLY MARKED PRIOR TO THE START OF CONSTRUCTION.
2. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAIL PROVIDED, AS NECESSARY, AND CONSISTENT WITH THE NHDES MARCH 2019 BMP MANUAL FOR UTILITY MAINTENANCE.
3. WETLAND IMPACTS ASSOCIATED WITH WETLAND CROSSINGS ARE REQUIRED FOR ACCESS BETWEEN STRUCTURES WITHIN THE RIGHT OF WAY.
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.
7. IMPACT TO VEGETATION WITHIN WETLANDS WILL BE LIMITED TO THE EXTENT NECESSARY TO PLACE THE SWAMP 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 AND PERIMETER CONTROLS WILL BE USED ALONG ACCESS ROUTES AND WORK PADS WITHIN WETLAND AREAS. THESE MATS ARE CONSTRUCTED OF HEAVY TIMBERS OR COMPOSITE MATERIAL, BOLTED TOGETHER, AND ARE PLACED 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. INSTALL NEW POLES IN THE LOCATIONS DESIGNATED ON THE PERMITTING PLANS.
15. 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.
16. REMOVAL OF THE OLD POLE WILL OCCUR ONCE THE CABLE HAS BEEN INSTALLED ON THE NEW STRUCTURE. THE OLD STRUCTURES WILL BE REMOVED FROM THE SITE. POLES WILL BE CUT AT THE GROUND SURFACE. FOOTINGS WILL BE ABANDONED IN PLACE TO MINIMIZE IMPACTS.
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.
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. MULCH USED FOR STABILIZATION SHALL CONSIST OF SEEDLESS STRAW.
21. SEDIMENT AND EROSION CONTROL MEASURES WILL BE EVALUATED AND REMOVED IF NECESSARY UPON THE COMPLETION OF CONSTRUCTION.
22. COMMERCIAL LOAM WILL NOT BE USED AS PART OF RESTORATION. ONLY IN-SITU TOPSOIL WILL BE USED TO RESTORE DISTURBED AREAS.
23. WHERE OPTIMAL TURTLE BREEDING AREAS OVERLAP WITH DISTURBANCE (AS DETERMINED BY AN ENVIRONMENTAL MONITOR), MINERAL SOILS WILL BE SCARIFIED TO ALLEVIATE COMPACTION AND BECOME MORE SUITED FOR TURTLE BREEDING.
24. NATURALLY VEGETATED LOCAL WETLAND BUFFER AREAS OUTSIDE OF EXISTING TRAILS MUST BE RESTORED UPON COMPLETION OF WORK.

**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 WETLAND DATA. EVERSOURCE ENERGY PROVIDED THE UTILITY DESIGN.
2. JURISDICTIONAL WETLANDS WERE CONFIRMED BY GZA GEOENVIRONMENTAL, INC. 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. WETLANDS WILL BE REVIEWED BY GZA GEOENVIRONMENTAL, INC. PRIOR TO START OF WORK.
3. GZA EVALUATED WETLANDS AS POTENTIAL VERNAL POOLS IN 2022 IN ACCORDANCE WITH "IDENTIFICATION AND DOCUMENTATION OF VERNAL POOLS IN NEW HAMPSHIRE," 2016, NEW HAMPSHIRE FISH AND GAME DEPARTMENT, NONGAME AND ANDANGERED WILDLIFE PROGRAM.
4. AS APPLICABLE, GZA WILL COMPLETE WETLANDS FUNCTION AND VALUES ASSESSMENT IN ACCORDANCE WITH THE ACOE'S "HIGHWAY METHODOLOGY WORKBOOK SUPPLEMENT," SEPTEMBER 1999.
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 ACCORDANCE 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 WITH BMPS.
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.
7. EROSION CONTROL MATTING, IF REQUIRED, WILL CONSIST OF JUTE MATTING. MATTING WITH WELDED PLASTIC OR 'BIODEGRADABLE PLASTIC' NETTING OR THREAD WILL BE AVOIDED TO LIMIT UNINTENTIONAL MORTALITY TO SNAKES.

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.

**C196 & Q171 TRANSMISSION LINE STRUCTURE  
REPLACEMENT PROJECT**

GOFFSTOWN, DUNBARTON, AND BOW, NEW HAMPSHIRE

**NOTES**

PREPARED BY: <b>GZA GeoEnvironmental, Inc.</b> 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:	<b>S1</b>
DATE: 08/22/2022	PROJECT NO: 04.0191410.18	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:

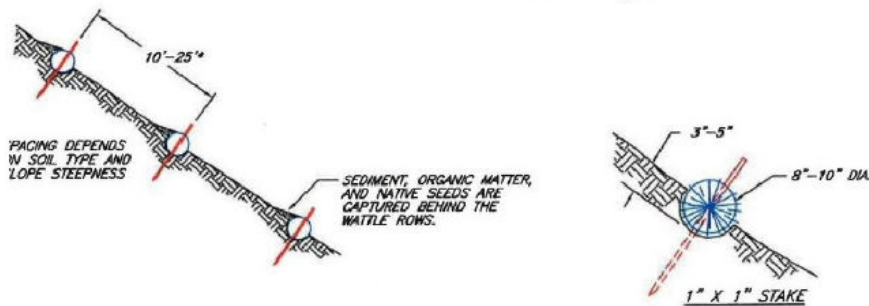
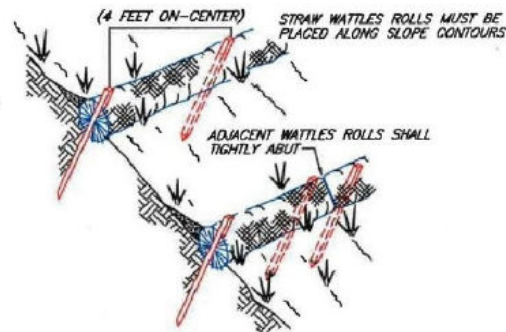
- \* Along erodible or unstabilized slopes
- \* Spread overland waterflow
- \* Trap sediment
- \* Around storm drain inlets to slow water and settle out sediment
- \* Overlap ends approximately 6 inches

### Installation:

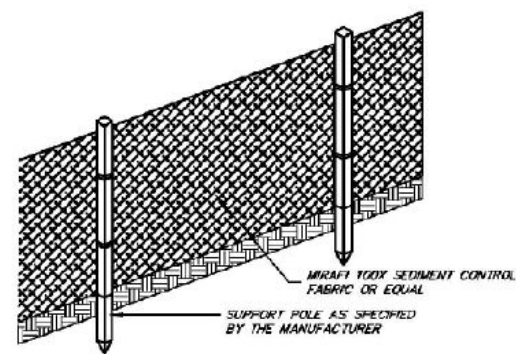
Straw wattles are installed parallel to slope contours and perpendicular to sheet flow.

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

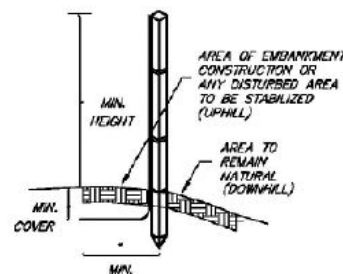
Trenching - 2"-5" inch trench  
Stacking - at each end and four foot on center (i.e. 25 foot wattle uses 6 stacks)



NOT TO SCALE



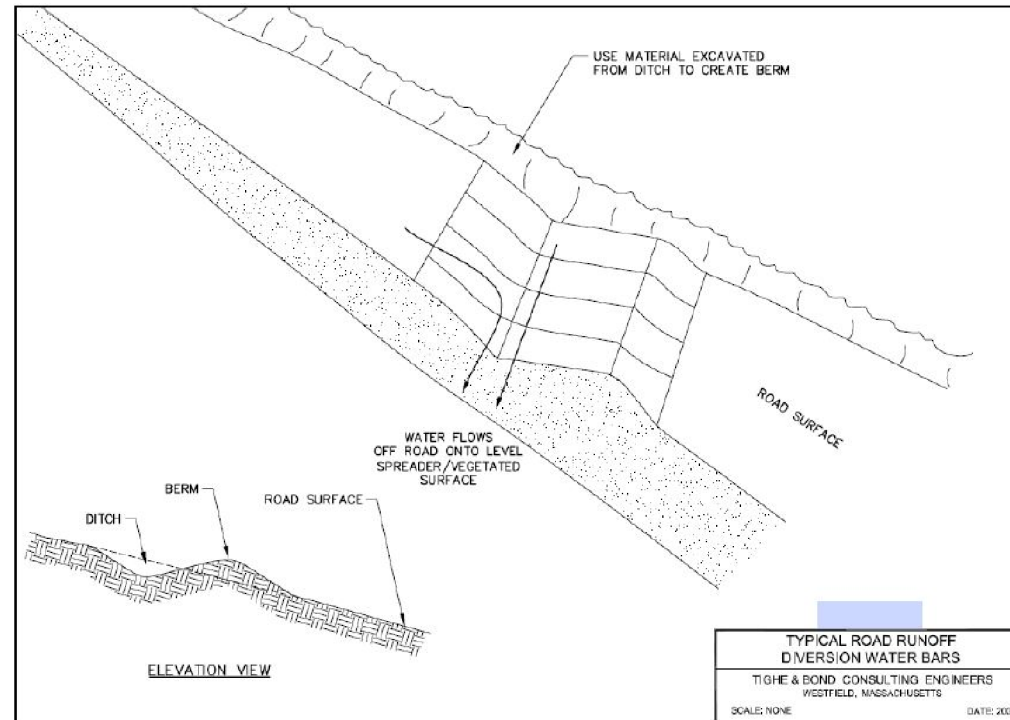
FRONT VIEW



SIDE VIEW

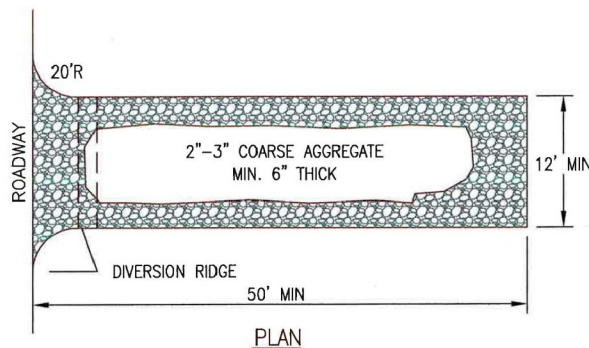
### NOTES (SILT FENCE)

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: 2017



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

Figure 5

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C196 & Q171 TRANSMISSION LINE  
STRUCTURE REPLACEMENT PROJECT  
GOFFSTOWN, DUNBARTON, & BOW, NEW HAMPSHIRE

## BMP DETAILS

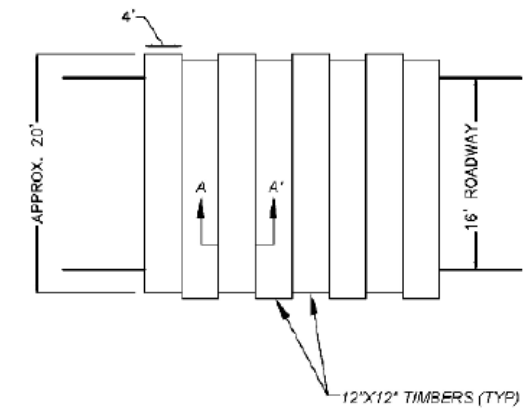
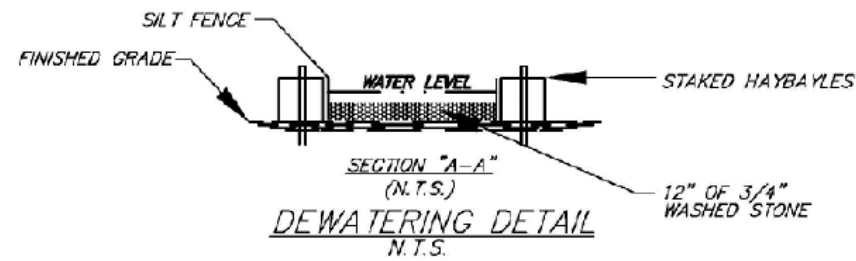
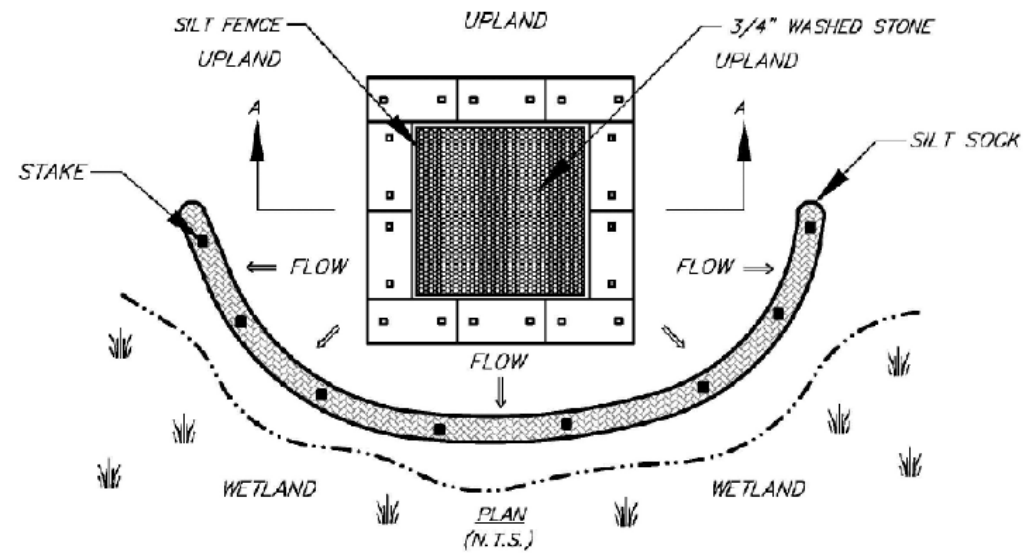
PREPARED BY:  
**GZA** GeoEnvironmental, Inc.  
Engineers and Scientists  
www.gza.com

PREPARED FOR:  
**EVERSOURCE**  
ENERGY

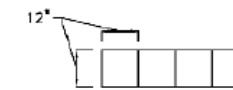
PROJ MGR: CEM	REVIEWED BY: TLT	CHECKED BY: DMZ	SHEET <b>S2</b>
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	
DATE: 08/29/2022	PROJECT NO: 04.0191410.18	REVISION NO:	



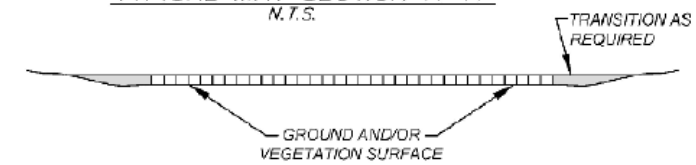
© 2022 - GZA GeoEnvironmental, Inc. P:\04\Jobs\0191410\00 - EE Shing Permitting 2019-2022\04.0191410.18 - C196 Transmission Line Str Repl Project\Figures\C196 Q171 AOT Notesheet 3 10-7.mxd, 8/22/2022, 9:16:54 AM, Sydney Wicklund



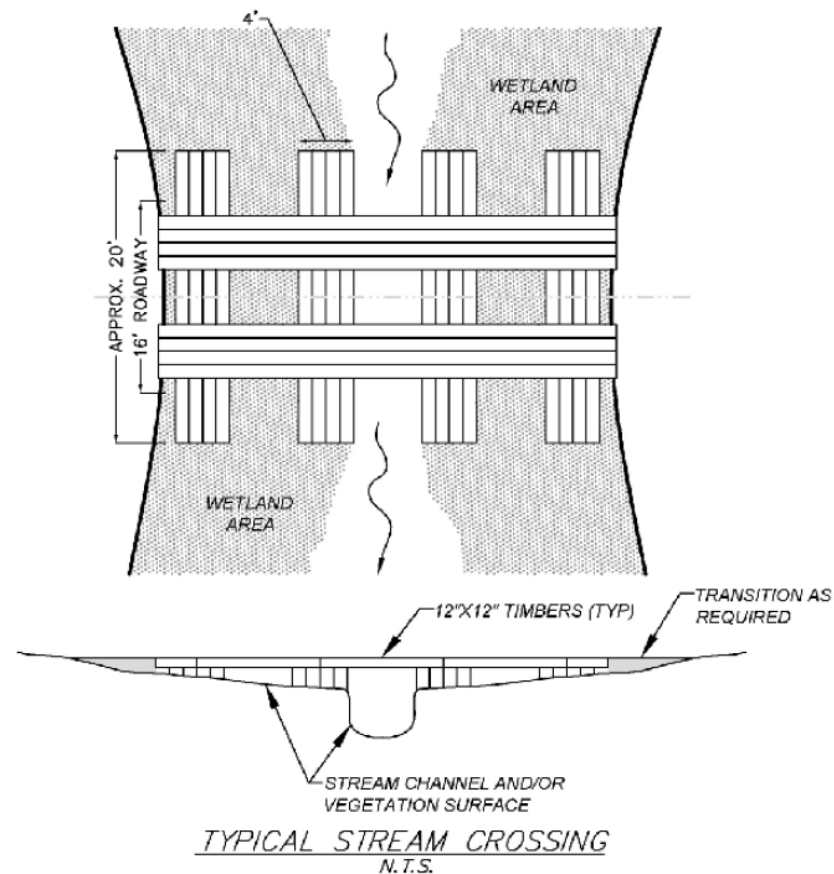
TYPICAL SWAMP MAT PLAN VIEW  
N.T.S.



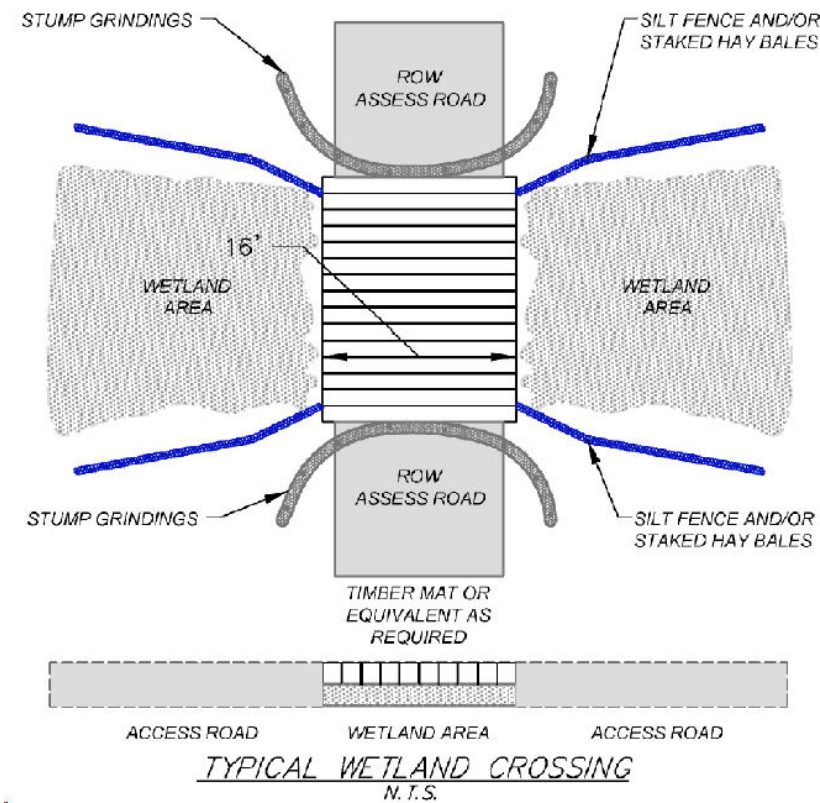
TYPICAL MAT SECTION A-A  
N.T.S.



TYPICAL SWAMP MAT SECTION DETAIL  
N.T.S.



TYPICAL STREAM CROSSING  
N.T.S.



TYPICAL WETLAND CROSSING  
N.T.S.

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C196 & Q171 TRANSMISSION LINE  
STRUCTURE REPLACEMENT PROJECT  
GOFFSTOWN, DUNBARTON, & BOW, 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 <b>S3</b>
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	
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**NEW HAMPSHIRE FISH AND GAME AOT PERMIT CONDITIONS IN ACCORDANCE WITH ENV-WQ 1504.18 – WILDLIFE PROTECTION NOTES:**

**NHB22-1754 AND NHB22-2081 (BOW)**



PROPOSED WORK IN BOW (EXISTING STRUCTURE C196 69 TO 59) OCCURS WITHIN A PRIORITY CONSERVATION AREA FOR BLANDING'S AND SPOTTED TURTLES. THIS SHOULD BE COMMUNICATED TO PERSONNEL, AND IMPACTS SHOULD BE MINIMIZED TO THE EXTENT POSSIBLE.

1. BMPS IN THE DOCUMENT TITLED "C196 Q171 NHFG BMP RECOMMENDATIONS 8-17-22" SUBMITTED TO NHFG 8/15/22 SHALL BE ADHERED TO AT ALL TIMES DURING THIS PROJECT.
2. BLANDING'S TURTLE (STATE ENDANGERED), SPOTTED TURTLE (STATE THREATENED), EASTERN HOGNOSE SNAKE (STATE ENDANGERED), NORTHERN BLACK RACER (STATE THREATENED), AND WOOD TURTLE (STATE SPECIES OF SPECIAL CONCERN) OCCUR WITHIN THE VICINITY OF THE PROJECT AREA. ALL OPERATORS AND PERSONNEL WORKING ON OR ENTERING THE SITE SHALL BE MADE AWARE OF THE POTENTIAL PRESENCE OF THESE SPECIES AND SHALL BE PROVIDED FLYERS THAT HELP TO IDENTIFY THESE SPECIES, ALONG WITH NHFG CONTACT INFORMATION. SEE PLAN SHEET S7 AND S8.
3. 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.
4. EASTERN HOGNOSE SNAKE OBSERVATIONS SHALL BE REPORTED IMMEDIATELY TO NHFG WILDLIFE BIOLOGISTS MELISSA WINTERS (603-479-1129) OR BRENDAN CLIFFORD (603-944-0885). IMMEDIATE REPORTING OF OBSERVATIONS IS CRITICAL AS NHFG BIOLOGISTS WILL NEED TO COLLECT DATA ON THE INDIVIDUAL.
5. TURTLES AND SNAKES MAY BE ATTRACTED TO DISTURBED GROUND DURING NESTING SEASON. TURTLE NESTING SEASON OCCURS APPROXIMATELY MAY 15TH – JUNE 30TH. NESTING AREAS MAY INCLUDE WORK PADS AND ACCESS ROADS THAT ARE NOT HARD PACK GRAVEL AND OTHER SANDY/GRAVEL WORK AREAS. ALL TURTLE SPECIES NESTS AND NORTHERN BLACK RACER NESTS ARE PROTECTED BY NH LAWS. BE AWARE OF THE POTENTIAL TO ENCOUNTER NESTING WILDLIFE IN THESE AREAS.
6. IF A TURTLE OR SNAKE NEST IS OBSERVED OR SUSPECTED, OR A TURTLE IS EXHIBITING NESTING BEHAVIORS, EVERSOURCE OR A DESIGNATED PROJECT REPRESENTATIVE SHALL CONTACT MELISSA WINTERS (603-479-1129) OR JOSH MEGYESY (978-578-0802) AT NHFG IMMEDIATELY FOR FURTHER CONSULTATION. TURTLE NESTS OR TURTLES EXHIBITING NESTING BEHAVIOR SHALL NOT BE DISTURBED.
7. 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 WINTERS (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.
8. ALL MATTING WHICH WILL BE PLACED IN WATERBODIES DEEMED SUITABLE FOR HIBERNATING RARE TURTLES WILL BE PLACED PRIOR TO THE START OF THE INACTIVE SEASON SO AS TO PREVENT ACCIDENTAL PLACEMENT ATOP HIBERNATING TURTLES. PRIOR TO MATTING PLACEMENT IN THESE WETLANDS, THE AREA SHALL BE SWEEP BY A QUALIFIED BIOLOGIST OR HERPETOLOGIST TO ENSURE ANY TURTLES RELOCATE AWAY FROM THE AREA TO BE MATTED.
9. IMMEDIATELY PRIOR TO THE PLACEMENT OF MATTING IN WETLANDS WITHIN RARE TURTLE HABITAT DURING THE ACTIVE SEASON, THE AREAS SHALL BE CLEARED BY A QUALIFIED BIOLOGIST OR HERPETOLOGIST.
10. SWEEPS OF WORK AREAS AND ACCESS ROUTES SHALL BE CONDUCTED IMMEDIATELY PRIOR TO START OF WORK AND EQUIPMENT MOVEMENT IN ORDER TO MINIMIZE THE POTENTIAL OF ANIMALS ENTERING A WORK AREA BETWEEN THE SWEEP AND ACTIVITY.
11. ALL WORK ACTIVITIES SHALL BE RESTRICTED TO THE DEFINED ROADS, CONSTRUCTION AREAS, AND STAGING AREAS, WITH NO EQUIPMENT OR MATERIALS STAGED OR STORED OUTSIDE OF THE DEFINED AREAS AS SHOWN ON PLAN SHEETS.
12. 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;
13. 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;
14. 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;
15. 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.  
-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.
16. THE NHFG, INCLUDING ITS EMPLOYEES AND AUTHORIZED AGENTS, SHALL HAVE ACCESS TO THE PROPERTY DURING THE TERM OF THE PERMIT.

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**C196 & Q171 TRANSMISSION LINE STRUCTURE REPLACEMENT PROJECT**  
  
GOFFSTOWN, DUNBARTON, AND BOW, NEW HAMPSHIRE

**NOTES**

PREPARED BY:  <b>GZA</b> GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: 	
PROJ MGR: LEW	REVIEWED BY: TLT	CHECKED BY: DMZ	SHEET  <b>S4</b>
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	
DATE: 08/29/2022	PROJECT NO: 04.0191410.18	REVISION NO:	



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

**NHB22-1755 (DUNBARTON)**



PROPOSED WORK IN DUNBARTON (C196 EXISTING STRUCTURE 70 TO 74) OCCURS WITHIN A PRIORITY CONSERVATION AREA FOR BLANDING'S AND SPOTTED TURTLES. THIS SHOULD BE COMMUNICATED TO PERSONNEL, AND IMPACTS SHOULD BE MINIMIZED TO THE EXTENT POSSIBLE.

1. BMPS IN THE DOCUMENT TITLED "C196 Q171 NHFG BMP RECOMMENDATIONS 8-17-22" SUBMITTED TO NHFG 8/15/22 SHALL BE ADHERED TO AT ALL TIMES DURING THIS PROJECT.
2. BLANDING'S TURTLE (STATE ENDANGERED), SPOTTED TURTLE (STATE THREATENED) , AND WOOD TURTLE (STATE SPECIES OF SPECIAL CONCERN) OCCUR WITHIN THE VICINITY OF THE PROJECT AREA. ALL OPERATORS AND PERSONNEL WORKING ON OR ENTERING THE SITE SHALL BE MADE AWARE OF THE POTENTIAL PRESENCE OF THESE SPECIES AND SHALL BE PROVIDED FLYERS THAT HELP TO IDENTIFY THESE SPECIES, ALONG WITH NHFG CONTACT INFORMATION. SEE PLAN SHEET S7 AND S8.
3. 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.
4. TURTLES MAY BE ATTRACTED TO DISTURBED GROUND DURING NESTING SEASON. TURTLE NESTING SEASON OCCURS APPROXIMATELY MAY 15TH – JUNE 30TH. NESTING AREAS MAY INCLUDE WORK PADS AND ACCESS ROADS THAT ARE NOT HARD PACK GRAVEL AND OTHER SANDY/GRAVEL WORK AREAS. ALL TURTLE SPECIES NESTS ARE PROTECTED BY NH LAWS. BE AWARE OF THE POTENTIAL TO ENCOUNTER NESTING WILDLIFE IN THESE AREAS.
5. IF A TURTLE NEST IS OBSERVED OR SUSPECTED, OR A TURTLE IS EXHIBITING NESTING BEHAVIORS, EVERSOURCE OR A DESIGNATED PROJECT REPRESENTATIVE SHALL CONTACT MELISSA WINTERS (603-479-1129) OR JOSH MEGYESY (978-578-0802) AT NHFG IMMEDIATELY FOR FURTHER CONSULTATION. TURTLE NESTS OR TURTLES EXHIBITING NESTING BEHAVIOR SHALL NOT BE DISTURBED.
6. ALL MATTING WHICH WILL BE PLACED IN WATERBODIES DEEMED SUITABLE FOR HIBERNATING RARE TURTLES WILL BE PLACED PRIOR TO THE START OF THE INACTIVE SEASON SO AS TO PREVENT ACCIDENTAL PLACEMENT ATOP HIBERNATING TURTLES. PRIOR TO MATTING PLACEMENT IN THESE WETLANDS, THE AREA SHALL BE SWEEP BY A QUALIFIED BIOLOGIST OR HERPETOLOGIST TO ENSURE ANY TURTLES RELOCATE AWAY FROM THE AREA TO BE MATTED.
7. IMMEDIATELY PRIOR TO THE PLACEMENT OF MATTING IN WETLANDS WITHIN RARE TURTLE HABITAT DURING THE ACTIVE SEASON, THE AREAS SHALL BE CLEARED BY A QUALIFIED BIOLOGIST OR HERPETOLOGIST.
8. SWEEPS OF WORK AREAS AND ACCESS ROUTES SHALL BE CONDUCTED IMMEDIATELY PRIOR TO START OF WORK AND EQUIPMENT MOVEMENT IN ORDER TO MINIMIZE THE POTENTIAL OF ANIMALS ENTERING A WORK AREA BETWEEN THE SWEEP AND ACTIVITY.
9. ALL WORK ACTIVITIES SHALL BE RESTRICTED TO THE DEFINED ROADS, CONSTRUCTION AREAS, AND STAGING AREAS, WITH NO EQUIPMENT OR MATERIALS STAGED OR STORED OUTSIDE OF THE DEFINED AREAS AS SHOWN ON PLAN SHEETS.
10. 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;
11. 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;
12. 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;
13. 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.  
-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.
14. THE NHFG, INCLUDING ITS EMPLOYEES AND AUTHORIZED AGENTS, SHALL HAVE ACCESS TO THE PROPERTY DURING THE TERM OF THE PERMIT.

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**C196 & Q171 TRANSMISSION LINE STRUCTURE REPLACEMENT PROJECT**  
  
GOFFSTOWN, DUNBARTON, AND BOW, NEW HAMPSHIRE

**NOTES**

PREPARED BY:  <b>GZA</b> GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: 	
PROJ MGR: LEW	REVIEWED BY: TLT	CHECKED BY: DMZ	SHEET  <b>S5</b>
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	
DATE: 08/29/2022	PROJECT NO: 04.0191410.18	REVISION NO.	



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

**NHB22-1756 (GOFFSTOWN)**

PROPOSED WORK IN GOFFSTOWN (EXISTING STRUCTURE Q171 139 TO 136) OCCURS WITHIN A PRIORITY CONSERVATION AREA FOR WOOD TURTLES AND POPULATIONS IN THE VICINITY ARE BEING MONITORED BY NHFG. THIS SHOULD BE COMMUNICATED TO PERSONNEL, AND IMPACTS SHOULD BE MINIMIZED TO THE EXTENT POSSIBLE.

1. BMPS IN THE DOCUMENT TITLED "C196 Q171 NHFG BMP RECOMMENDATIONS 8-17-22" SUBMITTED TO NHFG 8/15/22 SHALL BE ADHERED TO AT ALL TIMES DURING THIS PROJECT.
2. THERE IS HIGH POTENTIAL OF A NORTHERN BLACK RACER DEN SITE IN THE VICINITY OF THIS PROJECT. NORTHERN BLACK RACER SURVEYS SHALL BE CONDUCTED IN MID-SEPTEMBER THROUGH MID-OCTOBER FOLLOWING THE PROTOCOL PROVIDED TO EVERSOURCE IN THE DOCUMENT TITLED "SURVEY PROTOCOLS FOR NORTHERN BLACK RACERS DURING THE C196 Q171 STRUCTURE REPLACEMENT PROJECT" (ATTACHED). THIS WILL REQUIRE A SCIENTIFIC LICENSE FROM NHFG.
3. BLANDING'S TURTLE (STATE ENDANGERED), SPOTTED TURTLE (STATE THREATENED), NORTHERN BLACK RACER (STATE THREATENED), AND WOOD TURTLE (STATE SPECIES OF SPECIAL CONCERN) OCCUR WITHIN THE VICINITY OF THE PROJECT AREA. ALL OPERATORS AND PERSONNEL WORKING ON OR ENTERING THE SITE SHALL BE MADE AWARE OF THE POTENTIAL PRESENCE OF THESE SPECIES AND SHALL BE PROVIDED FLYERS THAT HELP TO IDENTIFY THESE SPECIES, ALONG WITH NHFG CONTACT INFORMATION. SEE PLAN SHEET S7 AND S8.
4. 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.
5. TURTLES AND SNAKES MAY BE ATTRACTED TO DISTURBED GROUND DURING NESTING SEASON. TURTLE NESTING SEASON OCCURS APPROXIMATELY MAY 15TH – JUNE 30TH. NESTING AREAS MAY INCLUDE WORK PADS AND ACCESS ROADS THAT ARE NOT HARD PACK GRAVEL AND OTHER SANDY/GRAVEL WORK AREAS. ALL TURTLE SPECIES NESTS AND NORTHERN BLACK RACER NESTS ARE PROTECTED BY NH LAWS. BE AWARE OF THE POTENTIAL TO ENCOUNTER NESTING WILDLIFE IN THESE AREAS.
6. IF A TURTLE OR SNAKE NEST IS OBSERVED OR SUSPECTED, OR A TURTLE IS EXHIBITING NESTING BEHAVIORS, EVERSOURCE OR A DESIGNATED PROJECT REPRESENTATIVE SHALL CONTACT MELISSA WINTERS (603-479-1129) OR JOSH MEGYESY (978-578-0802) AT NHFG IMMEDIATELY FOR FURTHER CONSULTATION. TURTLE NESTS OR TURTLES EXHIBITING NESTING BEHAVIOR SHALL NOT BE DISTURBED.
7. OBSERVATIONS OF NORTHERN BLACK RACERS SHALL BE REPORTED IMMEDIATELY TO THE NEW HAMPSHIRE FISH AND GAME DEPARTMENT NONGAME AND ENDANGERED WILDLIFE ENVIRONMENTAL REVIEW PROGRAM. PLEASE CONTACT MELISSA WINTERS (603-479-1129) OR BRENDAN CLIFFORD (603-944-0885). PLEASE INCLUDE PHOTOGRAPH WITH TEXT IF FEASIBLE. 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.
8. ALL MATTING WHICH WILL BE PLACED IN WATERBODIES DEEMED SUITABLE FOR HIBERNATING RARE TURTLES WILL BE PLACED PRIOR TO THE START OF THE INACTIVE SEASON SO AS TO PREVENT ACCIDENTAL PLACEMENT ATOP HIBERNATING TURTLES. PRIOR TO MATTING PLACEMENT IN THESE WETLANDS, THE AREA SHALL BE SWEEPED BY A QUALIFIED BIOLOGIST OR HERPETOLOGIST TO ENSURE ANY TURTLES RELOCATE AWAY FROM THE AREA TO BE MATTED.
9. IMMEDIATELY PRIOR TO THE PLACEMENT OF MATTING IN WETLANDS WITHIN RARE TURTLE HABITAT DURING THE ACTIVE SEASON, THE AREAS SHALL BE CLEARED BY A QUALIFIED BIOLOGIST OR HERPETOLOGIST.
10. SWEEPS OF WORK AREAS AND ACCESS ROUTES SHALL BE CONDUCTED IMMEDIATELY PRIOR TO START OF WORK AND EQUIPMENT MOVEMENT IN ORDER TO MINIMIZE THE POTENTIAL OF ANIMALS ENTERING A WORK AREA BETWEEN THE SWEEP AND ACTIVITY.
11. ALL WORK ACTIVITIES SHALL BE RESTRICTED TO THE DEFINED ROADS, CONSTRUCTION AREAS, AND STAGING AREAS, WITH NO EQUIPMENT OR MATERIALS STAGED OR STORED OUTSIDE OF THE DEFINED AREAS AS SHOWN ON PLAN SHEETS.
12. 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;
13. 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;
14. 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;
15. 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.  
-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.
16. THE NHFG, INCLUDING ITS EMPLOYEES AND AUTHORIZED AGENTS, SHALL HAVE ACCESS TO THE PROPERTY DURING THE TERM OF THE PERMIT.



**ADDITIONAL RECOMMENDATIONS**

17. SMOOTH GREEN SNAKES (STATE SPECIES OF SPECIAL CONCERN) OCCUR WITHIN THE VICINITY OF THE PROJECT SITE. SITE OPERATORS SHOULD BE INFORMED OF THE POTENTIAL PRESENCES OF THIS SPECIES AND SHALL BE PROVIDED A FLYER THAT HELPS TO IDENTIFY THIS SPECIES ALONG WITH NHFG CONTACT INFORMATION. SEE PLAN SHEET S7 AND S8.

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**C196 & Q171 TRANSMISSION LINE STRUCTURE REPLACEMENT PROJECT**  
  
GOFFSTOWN, DUNBARTON, AND BOW, NEW HAMPSHIRE

**NOTES**

PREPARED BY:  <b>GZA</b> GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: 	
PROJ MGR: LEW	REVIEWED BY: TLT	CHECKED BY: DMZ	SHEET  <b>S6</b>
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	
DATE: 08/29/2022	PROJECT NO: 04.0191410.18	REVISION NO:	



**WOOD TURTLE (GLYPTEMYS INSCULPTA)**

STATE SPECIES OF SPECIAL CONCERN



**WOOD TURTLE IDENTIFICATION**

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

**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.

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

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C196 AND Q171 TRANSMISSION LINE  
STRUCTURE REPLACEMENT PROJECT  
BOW, DUNBARTON, AND GOFFSTOWN,  
NEW HAMPSHIRE

**WILDLIFE NOTES**

PREPARED BY: <b>GZA</b> GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: <b>EVERSOURCE</b> ENERGY	
PROJ MGR: LEW	REVIEWED BY: TLT	CHECKED BY: DMZ	SHEET <b>S7</b>
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	
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**NORTHERN BLACK RACER (COLUBER CONSTRICTOR)**

STATE THREATENED



**NORTHERN BLACK RACER IDENTIFICATION**

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

**SMOOTH GREEN SNAKE (LIOCHLOROPHIS VERNALIS)**

SPECIES OF SPECIAL CONCERN



**SMOOTH GREEN SNAKE IDENTIFICATION**

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

**EASTERN HOGNOSE SNAKE (HETERODON PLATIRHINOS)**

STATE ENDANGERED



**EASTERN HOGNOSE IDENTIFICATION**



1. 20-35 INCHES LONG
2. UPTURNED SNOUT
3. KEELED DORSAL SCALES
4. LIGHT AND DARK BLOTCHES OF COLOR FROM BROWN TO RED AND ORANGE

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**C196 AND Q171 TRANSMISSION LINE  
STRUCTURE REPLACEMENT PROJECT**

BOW, DUNBARTON, AND BOW,  
NEW HAMPSHIRE

**WILDLIFE NOTES**

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