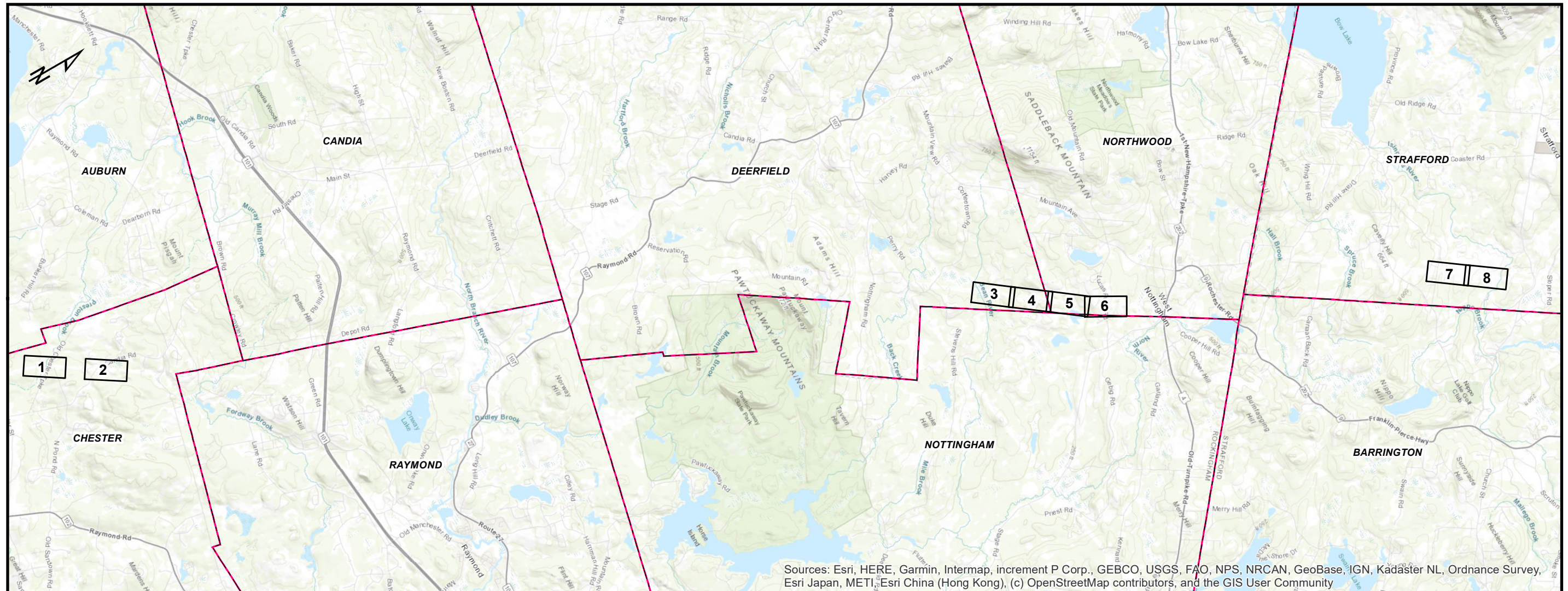


391, 385, & 373 TRANSMISSION LINE STRUCTURE REPLACEMENT PROJECT

SURFACE WATER AND GROUNDWATER OVERLAY PLANS

CHESTER, DEERFIELD, AND STRAFFORD,
NEW HAMPSHIRE
1/20/2020



PREPARED FOR



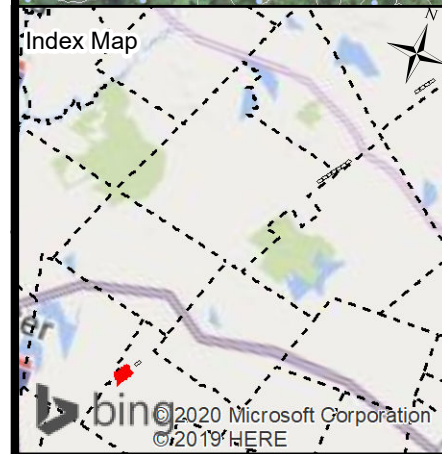
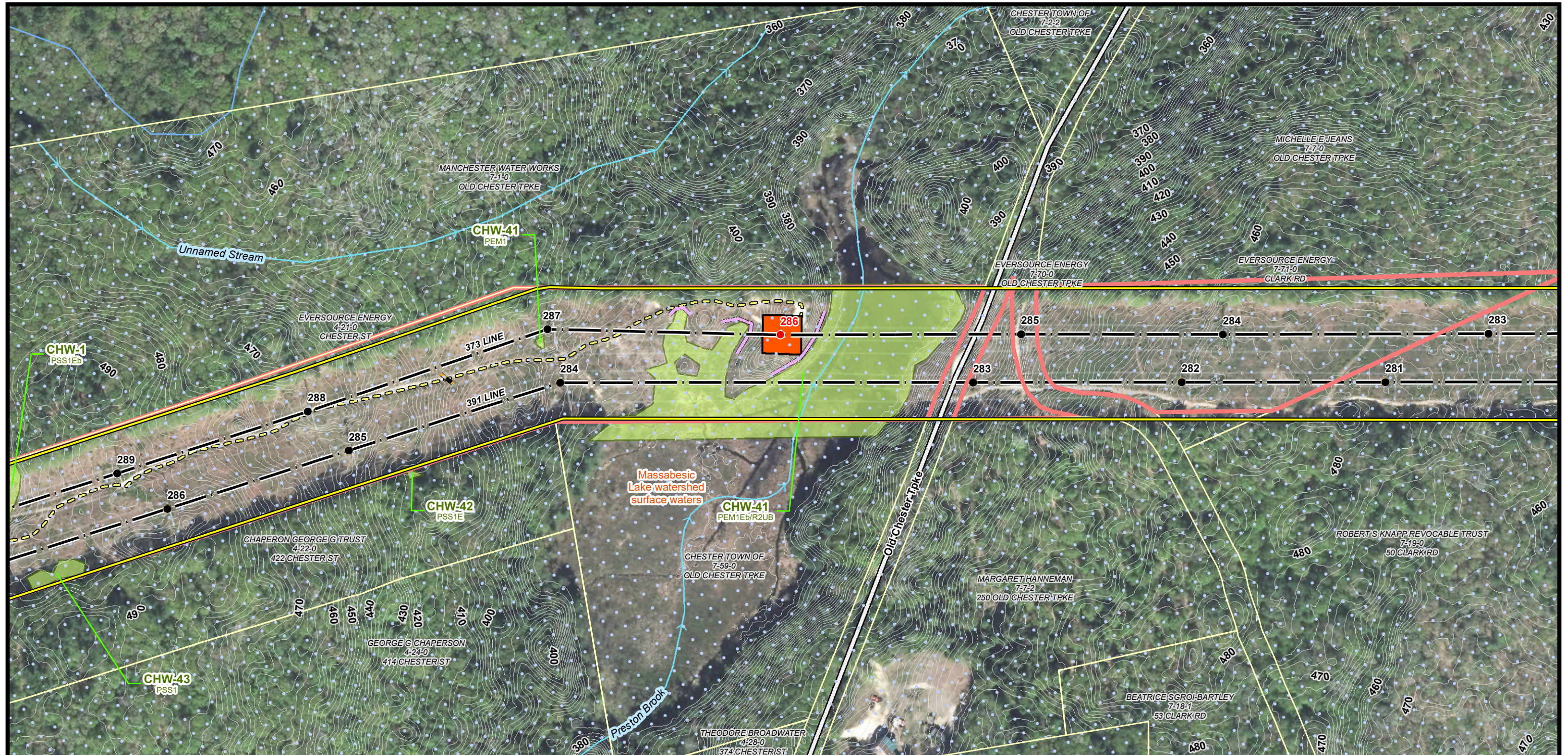
INDEX OF FIGURES

1 inch = 8,000 feet

- T1: TITLE SHEET
- 1-8: MAP SHEETS
- S1: NOTES
- S2: DETAILS
- S3: DETAILS (CONTINUED)

PREPARED BY





Current Town: Chester

<ul style="list-style-type: none"> ● EXISTING STRUCTURE ● STRUCTURE TO BE REPLACES — TRANSMISSION LINE — EXISTING IMPROVED ACCESS — APPROXIMATE ROW ○ ACCESS ROUTE ■ FEMA FIRM SPECIAL FLOOD HAZARD AREAS ■ FEMA FIRM SPECIAL FLOOD HAZARD AREA ■ WELLHEAD PROTECTION AREAS (NONE PRESENT) ■ WATERSHEDS WITH CHLORIDE IMPAIRMENTS 2016 ■ WATER SUPPLY INTAKE PROTECTION AREAS (NONE PRESENT) ■ SURFACE WATERS WITH IMPAIRMENTS 2016 WITH QUARTER MILE BUFFER ■ OUTSTANDING RESOURCE WATER WATERSHEDS ■ LAKES WITH A QUARTER MILE BUFFER (NONE PRESENT) ■ GROUNDWATER CLASSIFICATION AREAS GAA (NONE PRESENT) ■ GROUNDWATER CLASSIFICATION AREAS GA2 (NONE PRESENT) ■ GROUNDWATER CLASSIFICATION AREAS GA1 (NONE PRESENT) ■ DESIGNATED RIVERS QUARTERMILE BUFFER ■ ALL FEATURES (CLASS A SURFACE WATERS RSA485A9) 	<ul style="list-style-type: none"> ■ AOT DISTURBANCE AREA — STRAW WATTLE — WATER BAR ■ TEMPORARY WETLAND IMPACT ■ PRIME WETLANDS — PERENNIAL STREAM CHANNEL BANK ■ FIELD DELINEATED WETLANDS ■ SHORELAND ZONE ■ TOWN BOUNDARY ■ PARCEL BOUNDARY ■ STATE OWNED PROPERTY ■ EVERSOURCE OWNED PROPERTY — FENCE GATE — ROCK WALL — NHDOT ROAD — NH D FLOWLINE — 2FT ELEVATION CONTOURS ▲ LOCAL POTENTIAL CONTAMINATION SOURCES
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**391, 385, AND 373 TRANSMISSION LINE
STRUCTURE REPLACEMENT PROJECT**

**SURFACE WATER AND GROUNDWATER
OVERLAY PLANS**
JANUARY 20, 2020

CHESTER, DEERFIELD,
AND STRAFFORD,
NEW HAMPSHIRE

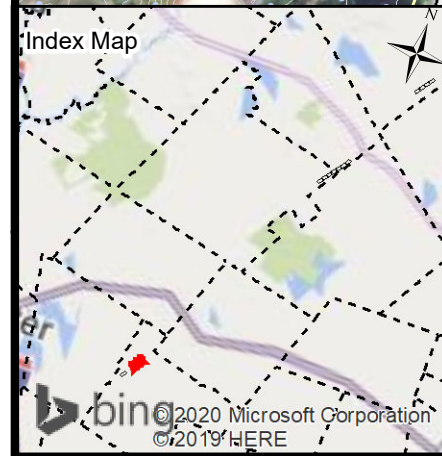
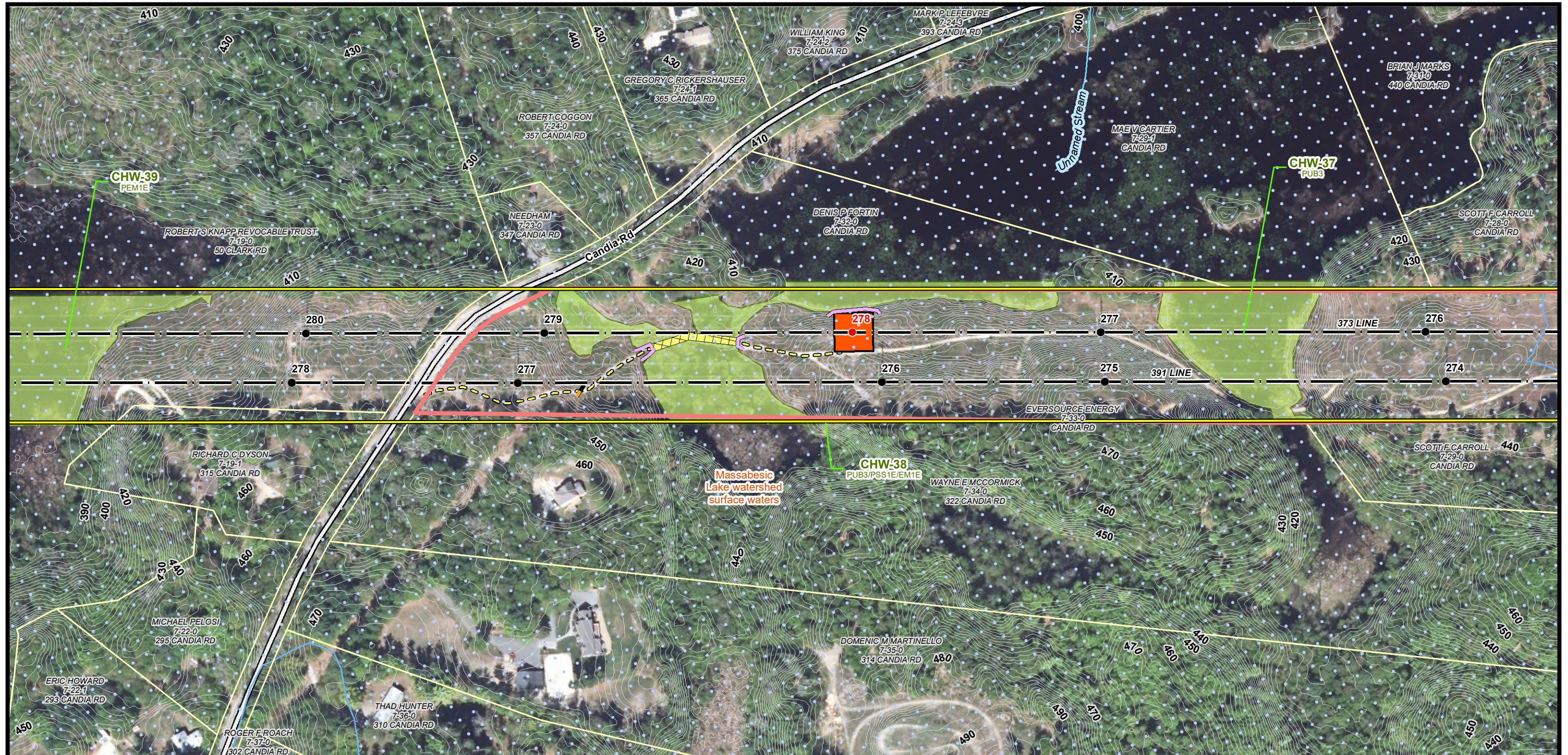
PAGE 1 OF 8

Project No.: 04.0190999.05

EVERSOURCE
ENERGY

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

1 inch = 200 feet



Current Town: Chester

<ul style="list-style-type: none"> ● EXISTING STRUCTURE ■ STRUCTURE TO BE REPLACES — TRANSMISSION LINE ▤ EXISTING IMPROVED ACCESS — APPROXIMATE ROW ○ ACCESS ROUTE ■ FEMA FIRM SPECIAL FLOOD HAZARD AREAS ■ FEMA FIRM SPECIAL FLOOD HAZARD AREA ■ WELLHEAD PROTECTION AREAS (NONE PRESENT) ■ WATERSHEDS WITH CHLORIDE IMPAIRMENTS 2016 ■ WATER SUPPLY INTAKE PROTECTION AREAS (NONE PRESENT) ■ SURFACE WATERS WITH IMPAIRMENTS 2016 WITH QUARTER MILE BUFFER ■ OUTSTANDING RESOURCE WATER WATERSHEDS ■ LAKES WITH A QUARTER MILE BUFFER (NONE PRESENT) ■ GROUNDWATER CLASSIFICATION AREAS GAA (NONE PRESENT) ■ GROUNDWATER CLASSIFICATION AREAS GA2 (NONE PRESENT) ■ GROUNDWATER CLASSIFICATION AREAS GA1 (NONE PRESENT) ■ DESIGNATED RIVERS QUARTERMILE BUFFER ■ ALL FEATURES (CLASS A SURFACE WATERS RSA485A9) 	<ul style="list-style-type: none"> ■ AOT DISTURBANCE AREA ■ STRAW WATTLE ■ WATER BAR ■ TEMPORARY WETLAND IMPACT ■ PRIME WETLANDS ■ PERENNIAL STREAM CHANNEL BANK ■ FIELD DELINEATED WETLANDS ■ SHORELAND ZONE ■ TOWN BOUNDARY ■ PARCEL BOUNDARY ■ STATE OWNED PROPERTY ■ EVERSOURCE OWNED PROPERTY ■ FENCE GATE ○ ROCK WALL — NHDOT ROAD — NHD FLOWLINE — 2FT ELEVATION CONTOURS ▲ LOCAL POTENTIAL CONTAMINATION SOURCES
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← Londonderry
Rochester →

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STRUCTURE REPLACEMENT PROJECT**

SURFACE WATER AND GROUNDWATER
OVERLAY PLANS
JANUARY 20, 2020

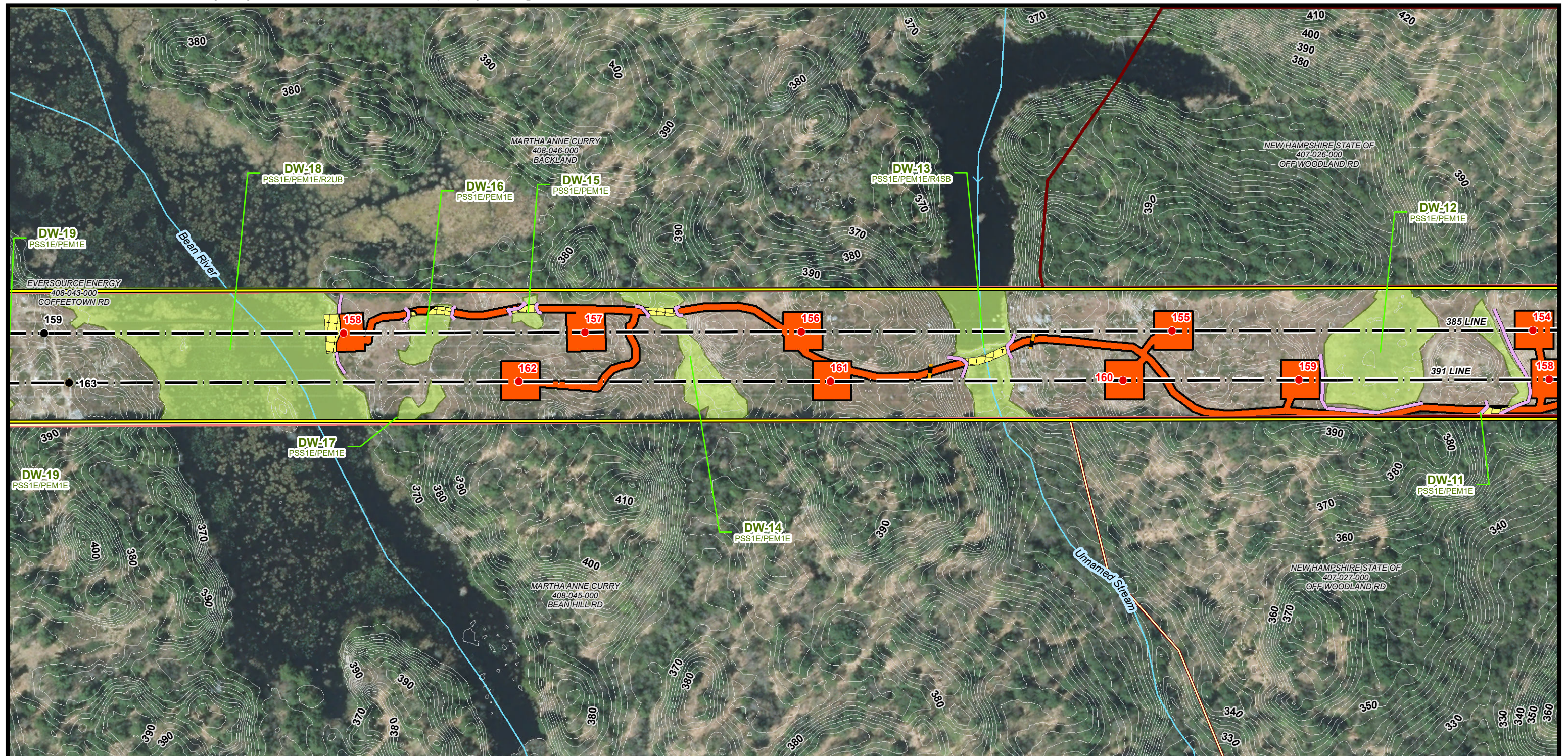
CHESTER, DEERFIELD,
AND STRAFFORD,
NEW HAMPSHIRE

PAGE 2 OF 8

Project No.: 04.0190999.05 1 inch = 200 feet

**EVERSOURCE
ENERGY**

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Londonderry ← Current Town: Deerfield → Rochester

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0 50 100 200 Feet

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391, 385, AND 373 TRANSMISSION LINE STRUCTURE REPLACEMENT PROJECT

SURFACE WATER AND GROUNDWATER OVERLAY PLANS
 JANUARY 20, 2020

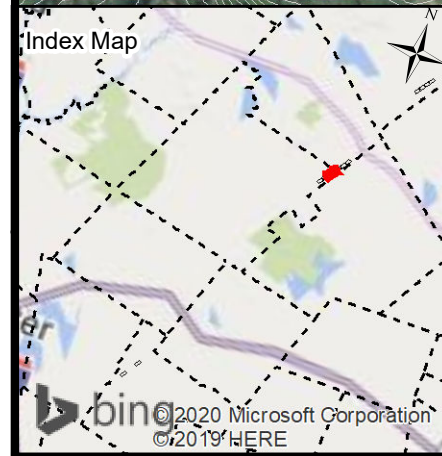
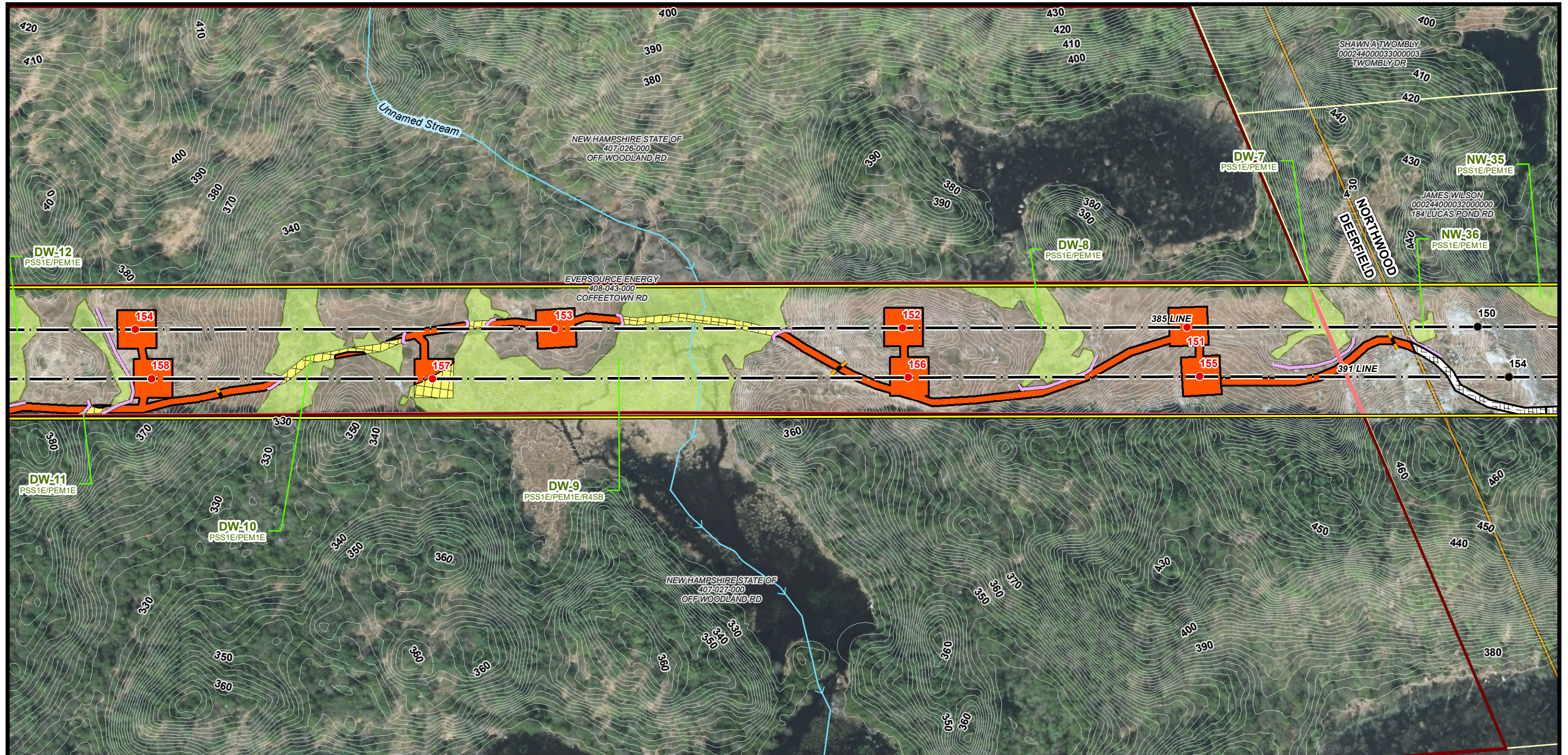
CHESTER, DEERFIELD, AND STRAFFORD, NEW HAMPSHIRE

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Project No.: 04.0190999.05 1 inch = 200 feet

EVERSOURCE ENERGY

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



Current Town: Deerfield/Northwood

<p>Legend:</p> <ul style="list-style-type: none"> ● EXISTING STRUCTURE ● STRUCTURE TO BE REPLACES — TRANSMISSION LINE — EXISTING IMPROVED ACCESS — APPROXIMATE ROW ○ ACCESS ROUTE ■ FEMA FIRM SPECIAL FLOOD HAZARD AREAS ■ FEMA FIRM SPECIAL FLOOD HAZARD AREA ■ WELLHEAD PROTECTION AREAS (NONE PRESENT) ■ WATERSHEDS WITH CHLORIDE IMPAIRMENTS 2016 ■ WATER SUPPLY INTAKE PROTECTION AREAS (NONE PRESENT) ■ SURFACE WATERS WITH IMPAIRMENTS 2016 WITH QUARTER MILE BUFFER ■ OUTSTANDING RESOURCE WATER WATERSHEDS ■ LAKES WITH A QUARTER MILE BUFFER (NONE PRESENT) ■ GROUNDWATER CLASSIFICATION AREAS GAA (NONE PRESENT) ■ GROUNDWATER CLASSIFICATION AREAS GA2 (NONE PRESENT) ■ GROUNDWATER CLASSIFICATION AREAS GA1 (NONE PRESENT) ■ DESIGNATED RIVERS QUARTERMILE BUFFER ■ ALL FEATURES (CLASS A SURFACE WATERS RSA485A9) 	<p>Legend:</p> <ul style="list-style-type: none"> ■ AOT DISTURBANCE AREA — STRAW WATTLE ■ WATER BAR ■ TEMPORARY WETLAND IMPACT ■ PRIME WETLANDS — PERENNIAL STREAM CHANNEL BANK ■ FIELD DELINEATED WETLANDS — SHORELAND ZONE ■ TOWN BOUNDARY — PARCEL BOUNDARY ■ STATE OWNED PROPERTY ■ EVERSOURCE OWNED PROPERTY — FENCE GATE ○ ROCK WALL — NHDOT ROAD — NHD FLOWLINE — 2FT ELEVATION CONTOURS ▲ LOCAL POTENTIAL CONTAMINATION SOURCES
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0 50 100 200
 Feet

**391, 385, AND 373 TRANSMISSION LINE
STRUCTURE REPLACEMENT PROJECT**

SURFACE WATER AND GROUNDWATER
OVERLAY PLANS
JANUARY 20, 2020

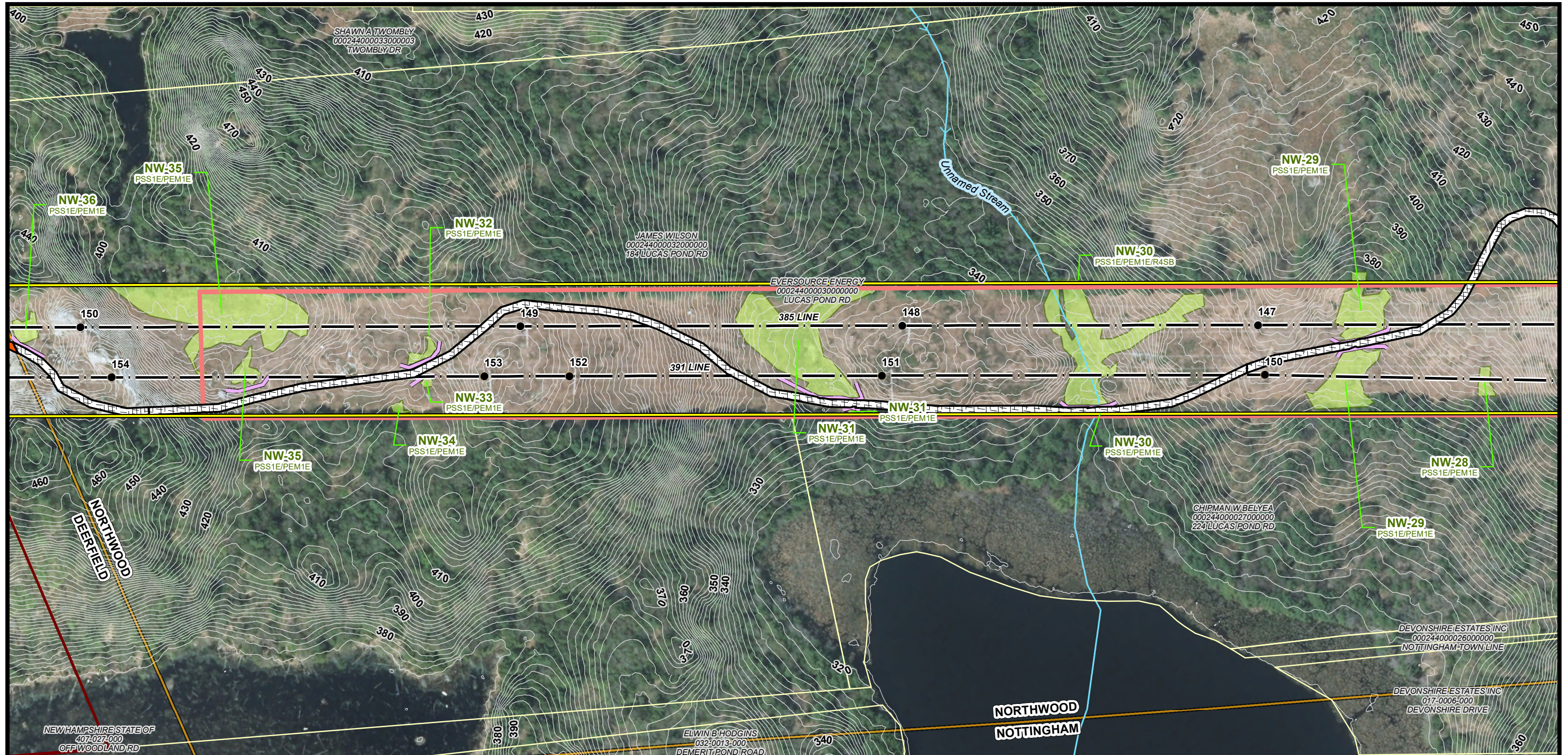
CHESTER, DEERFIELD,
AND STRAFFORD,
NEW HAMPSHIRE

PAGE 4 OF 8

Project No.: 04.0190999.05 1 inch = 200 feet

**EVERSOURCE
ENERGY**

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



Londonderry		Current Town: Northwood		Rochester	
●	EXISTING STRUCTURE	■	AOT DISTURBANCE AREA	→	STRAW WATTLE
●	STRUCTURE TO BE REPLACES	■	WATER BAR	■	TEMPORARY WETLAND IMPACT
—	TRANSMISSION LINE	■	PRIME WETLANDS	■	PERENNIAL STREAM CHANNEL BANK
—	EXISTING IMPROVED ACCESS	■	FIELD DELINEATED WETLANDS	■	SHORELAND ZONE
—	APPROXIMATE ROW	■	TOWN BOUNDARY	■	PARCEL BOUNDARY
—	ACCESS ROUTE	■	STATE OWNED PROPERTY	■	EVERSOURCE OWNED PROPERTY
■	FEMA FIRM SPECIAL FLOOD HAZARD AREAS	■	FENCE GATE	○	ROCK WALL
■	FEMA FIRM SPECIAL FLOOD HAZARD AREA	○	EVERSOURCE OWNED PROPERTY	○	NHDOT ROAD
■	WELLHEAD PROTECTION AREAS (NONE PRESENT)	○	EVERSOURCE OWNED PROPERTY	→	NHD FLOWLINE
■	WATERSHEDS WITH CHLORIDE IMPAIRMENTS 2016	○	EVERSOURCE OWNED PROPERTY	—	2FT ELEVATION CONTOURS
■	WATER SUPPLY INTAKE PROTECTION AREAS (NONE PRESENT)	○	EVERSOURCE OWNED PROPERTY	▲	LOCAL POTENTIAL CONTAMINATION SOURCES
■	SURFACE WATERS WITH IMPAIRMENTS 2016 WITH QUARTER MILE BUFFER	○	EVERSOURCE OWNED PROPERTY		
■	OUTSTANDING RESOURCE WATER WATERSHEDS	○	EVERSOURCE OWNED PROPERTY		
■	LAKES WITH A QUARTER MILE BUFFER (NONE PRESENT)	○	EVERSOURCE OWNED PROPERTY		
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391, 385, AND 373 TRANSMISSION LINE STRUCTURE REPLACEMENT PROJECT

SURFACE WATER AND GROUNDWATER OVERLAY PLANS

JANUARY 20, 2020

CHESTER, DEERFIELD, AND STRAFFORD, NEW HAMPSHIRE

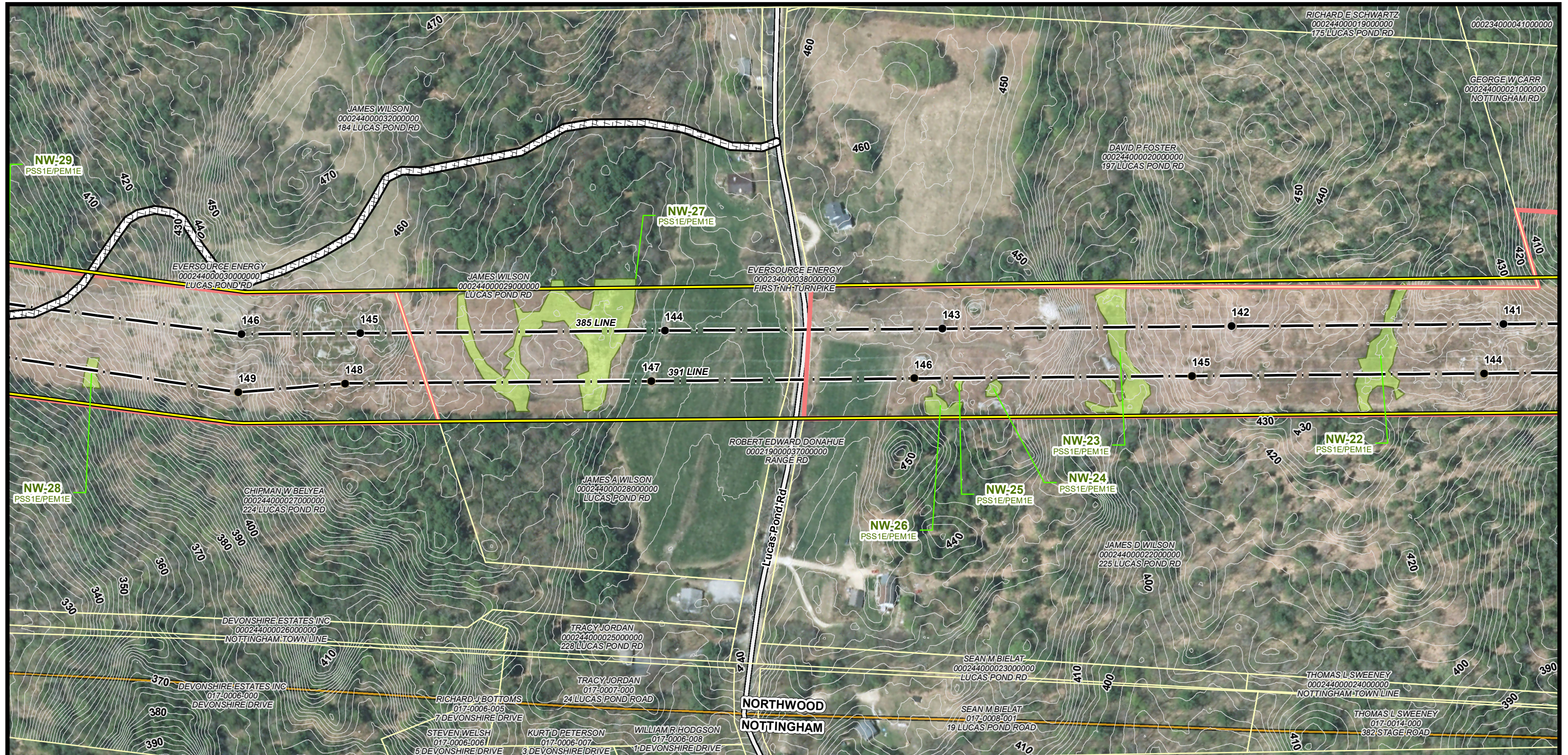
PAGE 5 OF 8

Project No.: 04.0190999.05

EVERSOURCE ENERGY

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Engineers and Scientists
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1 inch = 200 feet



Legend

● EXISTING STRUCTURE	■ AOT DISTURBANCE AREA
● STRUCTURE TO BE REPLACES	■ STRAW WATTLE
— TRANSMISSION LINE	■ WATER BAR
— EXISTING IMPROVED ACCESS	■ TEMPORARY WETLAND IMPACT
— APPROXIMATE ROW	■ PRIME WETLANDS
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 JANUARY 20, 2020

CHESTER, DEERFIELD, AND STRAFFORD, NEW HAMPSHIRE

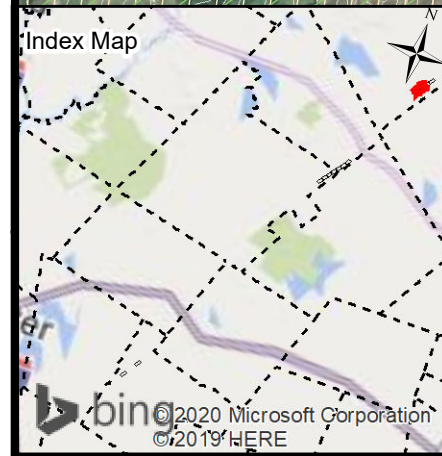
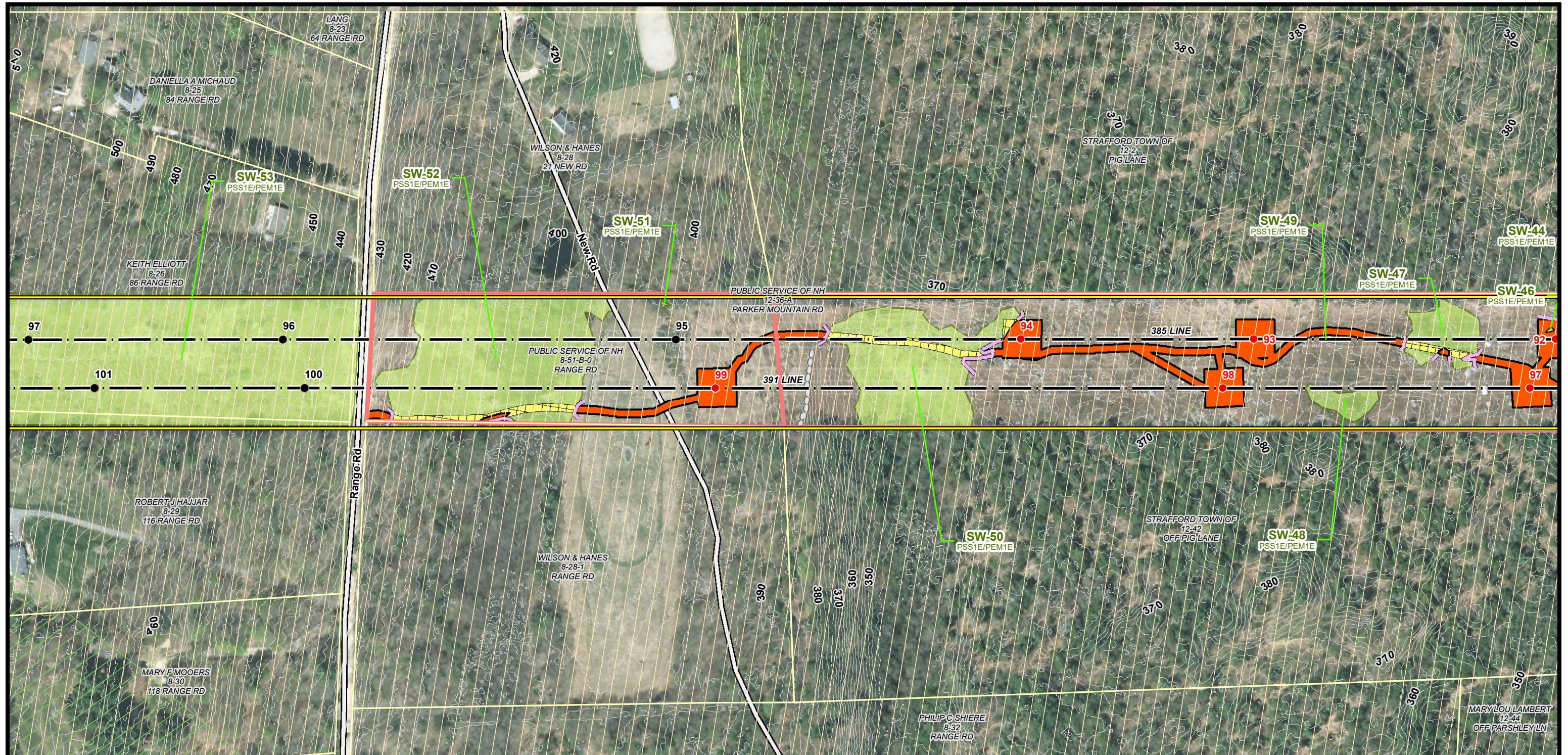
PAGE 6 OF 8

Project No.: 04.0190999.05

EVERSOURCE ENERGY

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1 inch = 200 feet



Current Town: Strafford

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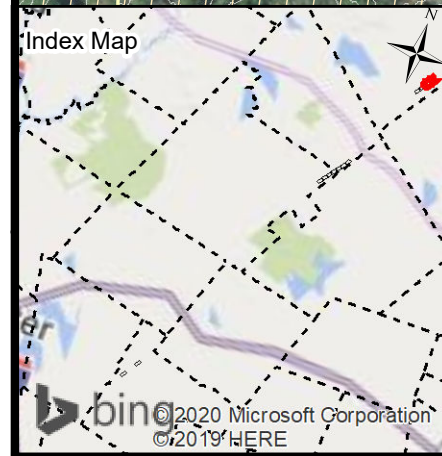
CHESTER, DEERFIELD,
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PAGE 7 OF 8

Project No.: 04.0190999.05 1 inch = 200 feet

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Londonderry ← Rochester →

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0 50 100 200 Feet

**391, 385, AND 373 TRANSMISSION LINE
STRUCTURE REPLACEMENT PROJECT**

SURFACE WATER AND GROUNDWATER
OVERLAY PLANS
JANUARY 20, 2020

CHESTER, DEERFIELD,
AND STRAFFORD,
NEW HAMPSHIRE

PAGE 8 OF 8

Project No.: 04.0190999.05 1 inch = 200 feet

**EVERSOURCE
ENERGY**

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

CONSTRUCTION SEQUENCE:

1. WETLAND BOUNDARIES TO BE CLEARLY MARKED PRIOR TO THE START OF CONSTRUCTION.
2. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAIL PROVIDED, AS NECESSARY.
3. WETLAND IMPACTS ASSOCIATED WITH WETLAND CROSSINGS ARE REQUIRED FOR ACCESS BETWEEN STRUCTURES WITHIN THE RIGHT OF WAY.
4. ADEQUATE PRECAUTION SHALL BE EXERCISED TO AVOID SPILLAGE OF FUEL OILS, CHEMICALS, OR SIMILAR SUBSTANCES; NO FUELS, LUBRICANTS, CHEMICALS OR SIMILAR SUBSTANCES SHALL BE STORED BENEATH TREES OR IN THE VICINITY OF ANY WETLANDS, RIVER, STREAM OR OTHER BODY OF WATER; OR IN THE VICINITY OF NATURAL OR MAN-MADE CHANNELS LEADING THERETO. NO POWER EQUIPMENT SHALL BE STORED, MAINTAINED, OR FUELED IN ANY AREA ADJACENT TO A WETLAND, RIVER, STREAM OR OTHER BODY OF WATER.
5. REMOVE COMPLETELY ALL CONTAMINATION FROM ANY SPILLAGE OF CHEMICALS OR PETROLEUM PRODUCT WITH COMPLETE REHABILITATION OF THE AFFECTED AREA.
6. ACCESS ROUTES HAVE BEEN SELECTED TO PREVENT DEGRADATION OF THE RIGHT-OF-WAY AND MINIMIZE ENVIRONMENTAL IMPACT. OPERATIONS SHALL BE CONFINED TO THE SPECIFIED ACCESS ROUTES WITHIN THE PROPOSED WETLAND IMPACT AREA. ACCESS ROUTES SHALL NOT EXCEED A 16 FOOT-WIDTH.
7. IMPACT TO VEGETATION WITHIN WETLANDS WILL BE LIMITED TO THE EXTENT NECESSARY TO PLACE THE TIMBER MATS WHERE REQUIRED.
8. LOW GROWING VARIETIES OF VEGETATION ADJACENT TO WETLANDS SHALL BE PRESERVED TO THE EXTENT POSSIBLE. STUMPS AND ROCKS SHALL NOT BE REMOVED, AND THERE SHALL BE NO EXCAVATIONS, FILLS OR GRADING DONE ADJACENT TO WETLANDS, UNLESS MINOR EXCAVATIONS IS NEEDED FOR ACCESS.
9. TIMBER MATS WILL BE USED ALONG ACCESS ROUTES WITHIN WETLAND AREAS. THESE MATS ARE CONSTRUCTED OF HEAVY TIMBERS OR COMPOSITE MATERIAL, BOLTED TOGETHER, AND ARE PLACED END-TO-END IN THE WETLAND TO SUPPORT HEAVY EQUIPMENT. ALL SWAMP MATS SHALL BE PLACED AND REMOVED SO AS NOT TO CAUSE ANY RUTS, CHANNELS OR DEPRESSIONS, OR OTHERWISE CAUSE ANY UNDUE DISTURBANCE TO WETLANDS.
10. IF TIMBER MAT BMP IS NOT SUFFICIENT DUE TO HIGH WATER, ADDITIONAL BMP'S MAY INCLUDE THE PLACEMENT OF GEOTEXTILE FABRIC, 3"-4" STONE, AND GRAVEL TO PROVIDE A SUITABLE ROAD BED. A TEMPORARY CULVERT MAY BE REQUIRED IN AREAS OF HIGH FLOW TO MAINTAIN HYDROLOGIC CONNECTIVITY. ALL MATERIAL WILL BE REMOVED FROM JURISDICTIONAL AREAS AFTER CONSTRUCTION COMPLETION.
11. NO MATERIAL SHALL BE PLACED IN ANY LOCATION OR IN ANY MANNER SO AS TO IMPAIR SURFACE WATER FLOW INTO, THROUGH OR OUT OF ANY WETLAND AREA. NO INSTALLATION SHALL CREATE AN IMPOUNDMENT THAT WILL IMPEDE THE FLOW OF WATER OR CAUSE FLOODING.
12. NO MATERIAL SHALL BE TAKEN FROM THE WETLANDS AREA EXCEPT THAT WHICH MUST NECESSARILY BE REMOVED FOR THE STRUCTURE OR FOUNDATION PLACEMENT OR STABILIZATION. ALL EXCESS MATERIAL TAKEN FROM THE WETLAND WILL BE REMOVED FROM THE SITE.
13. ANY PROPOSED SUPPORT FILLS SHALL BE CLEAN GRAVEL AND STONE, FREE OF WASTE METAL PRODUCTS, ORGANIC MATERIALS AND SIMILAR DEBRIS AND SHALL NOT EXCEED THE AMOUNT PERMITTED. THIS ALLOWABLE FILL IS THE ONLY FILL THAT MAY REMAIN IN THE WETLAND AFTER CONSTRUCTION. ALL CUT AND FILLS SLOPES SHALL BE SEEDED/LOAMED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
14. 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. ALL SWAMP MATS, MATERIAL, AND DEBRIS WILL BE REMOVED FROM THE WORK AREA UPON THE COMPLETION OF CONSTRUCTION.
17. 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.
18. 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.
19. SEDIMENT AND EROSION CONTROL MEASURES WILL BE EVALUATED AND REMOVED IF NECESSARY UPON THE COMPLETION OF CONSTRUCTION.
20. COMMERCIAL LOAM WILL NOT BE USED AS PART OF RESTORATION. ONLY IN-SITU TOPSOIL WILL BE USED TO RESTORE DISTURBED AREAS.
21. 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.

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 DELINEATED BY TIGHE AND BOND IN 2018, 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 WERE REVIEWED BY GZA GEOENVIRONMENTAL, INC. IN JANUARY AND FEBRUARY 2019.
3. GZA PERFORMED A WETLANDS FUNCTION AND VALUES ASSESSMENT IN ACCORDANCE WITH THE ACOE'S "HIGHWAY METHODOLOGY WORKBOOK SUPPLEMENT," SEPTEMBER 1999, IN THE TOWN OF STRAFFORD.
4. SITE PLAN IS FOR PERMITTING PURPOSES ONLY AND DOES NOT REPRESENT A PROPERTY BOUNDARY SURVEY.
5. THE PROJECT WILL BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.
6. 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.
7. IN THE EVENT THAT A RARE OR THREATENED SPECIES IS OBSERVED, THE NEW HAMPSHIRE FISH AND GAME AND NEW HAMPSHIRE NATURAL HERITAGE BUREAU WILL BE NOTIFIED. TURTLE NESTING SEASON EXTENDS FROM LATE MAY THROUGH THE BEGINNING OF JULY. IF WOOD, BLANDING'S OR SPOTTED TURTLES ARE FOUND LAYING EGGS IN THE WORK AREA, CONTACT MELISSA DOPERALSKI AT 603-271-1738 OR JOSH MEGYESY AT 603-271-1125 FOR FURTHER INSTRUCTIONS. OBSERVATIONS OF NORTHERN BLACK RACER SNAKES SEEN IN ANY AREA FROM THE END OF SEPTEMBER THROUGH THE MONTH OF APRIL MUST BE IMMEDIATELY REPORTED TO THE NHFG DEPARTMENT (BRENDAN CLIFFORD AT 603-271-0463 OR MELISSA DOPERALSKI AT 603-271-1738). IF NORTHERN BLACK RACER IS FOUND IN A WORK AREA FROM NOVEMBER THROUGH THE MONTH OF APRIL, WORK SHALL IMMEDIATELY CEASE AND THE OBSERVATION MUST BE REPORTED TO THE NHFG (BRENDAN CLIFFORD OR MELISSA DOPERALSKI).
8. TEMPORARY OR PERMANENT IMPACTS TO IDENTIFIED POTENTIAL OR SUSPECT VERNAL POOLS ARE PROHIBITED. ANY OBSERVATION OF ANY ADDITIONAL SUSPECT VERNAL POOLS ARE TO BE REPORTED TO NHFG PERSONNEL.



EROSION CONTROL NOTES:

1. INSTALLATION OF EROSION CONTROL GRINDINGS AND/OR SILT FENCES SHALL BE COMPLETE PRIOR TO THE START OF WORK IN ANY GIVEN AREA. EROSION CONTROLS SHALL BE USED DURING CONSTRUCTION AND REMOVED WHEN ALL SLOPES HAVE A HEALTHY STAND OF VEGETATION COVER. EROSION CONTROL MEASURES SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER .25" OR GREATER RAINFALL EVENTS.
2. AS REQUIRED, CONSTRUCT TEMPORARY BERMS, SILTATION FENCES, SEDIMENT TRAPS, ETC. TO PREVENT EROSION & SEDIMENTATION OF WETLANDS.
3. THE WORK AREA SHALL BE GRADED AND OTHERWISE SHAPED IN SUCH A MANNER AS TO MINIMIZE SOIL EROSION, SILTATION OF DRAINAGE CHANNELS, DAMAGE TO EXISTING VEGETATION, AND DAMAGE TO PROPERTY OUTSIDE LIMITS OF THE WORK AREA. EROSION CONTROL GRINDINGS WILL BE NECESSARY TO ACCOMPLISH THIS END.
4. ANY STRIPPED TOPSOIL SHALL BE STOCKPILED, WITHOUT COMPACTION, AND STABILIZED AGAINST EROSION, AS NECESSARY.
5. PERMANENT OR TEMPORARY COVER MUST BE IN PLACE BEFORE THE GROWING SEASON ENDS. WHEN SEEDED AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 15 TO SEPTEMBER 15. NO DISTURBED AREA SHALL BE LEFT EXPOSED DURING WINTER MONTHS, PLANT ANNUAL RYEGRASS PRIOR TO OCTOBER 15TH.
6. EROSION CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER EVERY HALF-INCH OF RAINFALL.
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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391, 385, & 373 TRANSMISSION LINE STRUCTURE REPLACEMENT PROJECT
CHESTER, DEERFIELD, AND STRAFFORD, NEW HAMPSHIRE

NOTES

PREPARED BY:  GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: 	
PROJ MGR: LEW	REVIEWED BY: AJD	CHECKED BY: DMZ	SHEET 1
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	
DATE: 03/23/2020	PROJECT NO: 04.0190999.05	REVISION NO:	

© 2020 - GZA GeoEnvironmental, Inc. \GZA\Bedford\jobs\04.0190999\05 - 391.385.373\2020 Structure Replacement\Figures\MXD\2020_391.385.373 AOT NOTESHEET 2.mxd, 1/20/2020, 8:47:12 AM, matthew.deane

Best Management Practices (BMP's) for Straw wattles

Definition and purpose:

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

Applications:

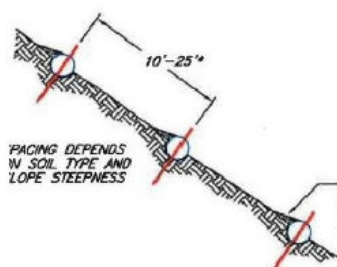
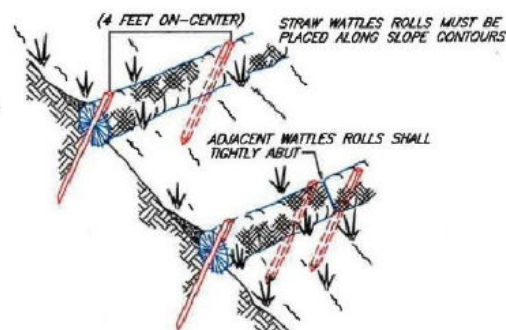
- * Along erodible or unstabilized slopes
- * Spread overland waterflow
- * Trap sediment
- * Around storm drain inlets to slow water and settle out sediment
- * Overlap ends approximately 6 inches

Installation:

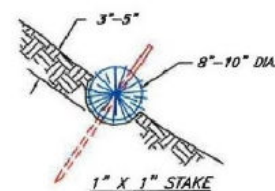
Straw wattles are installed parallel to slope contours and perpendicular to sheet flow.

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

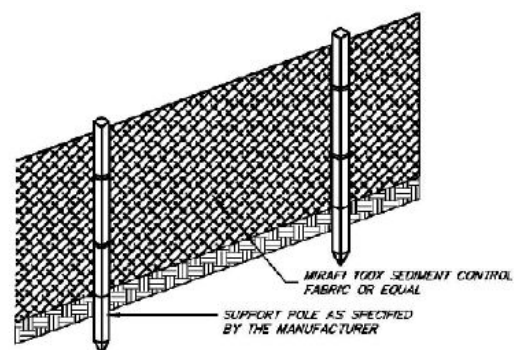
Trenching - 2"-5" inch trench
Stacking - at each end and four foot on center (i.e. 25 foot wattle uses 6 stacks)



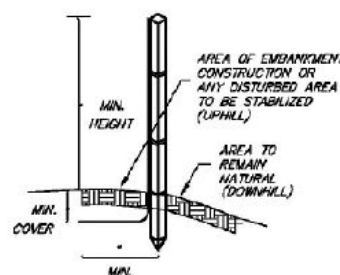
SEDIMENT, ORGANIC MATTER, AND NATIVE SEEDS ARE CAPTURED BEHIND THE WATTLE ROWS.



NOT TO SCALE



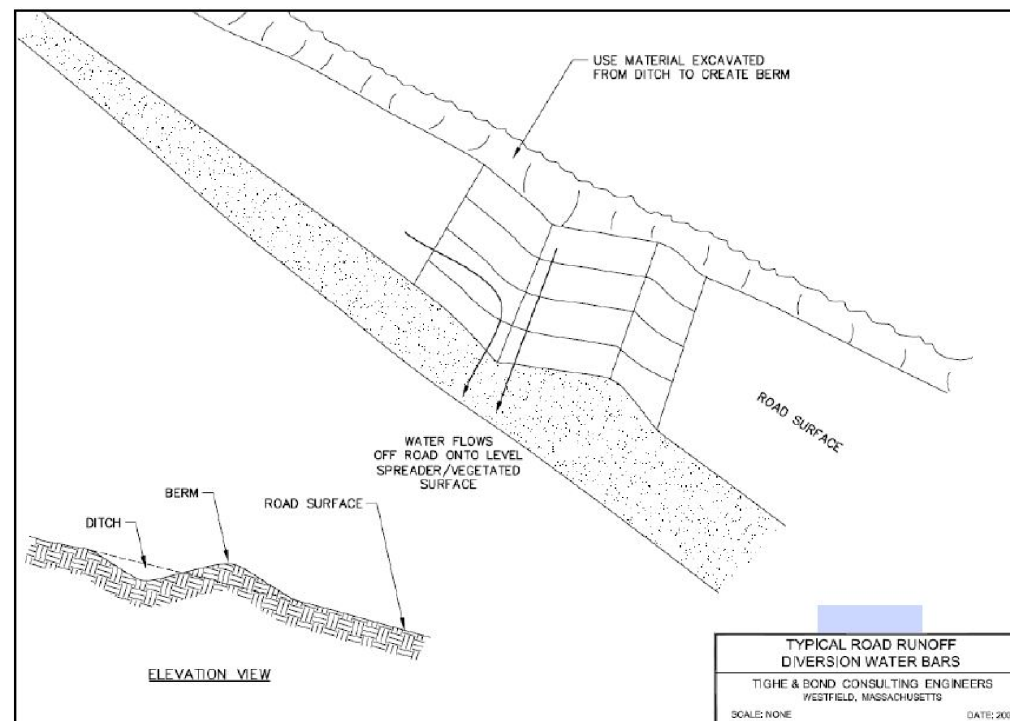
FRONT VIEW



SIDE VIEW

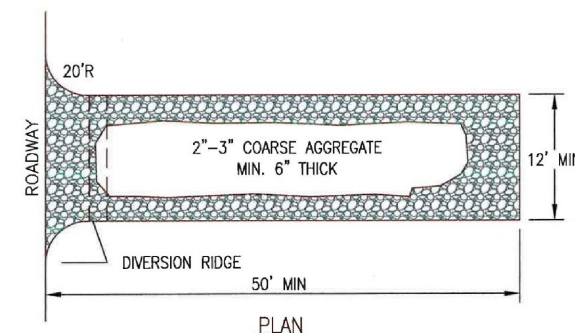
NOTES (SILT FENCE)

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



ELEVATION VIEW

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

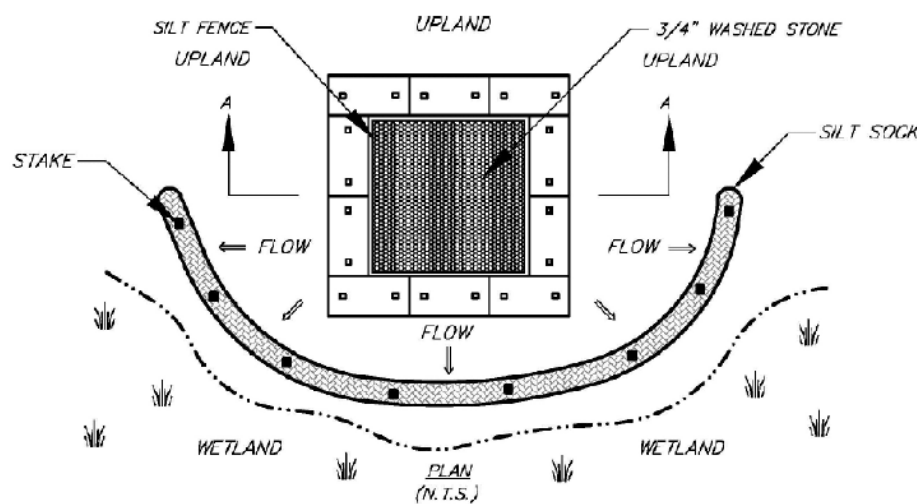


PLAN

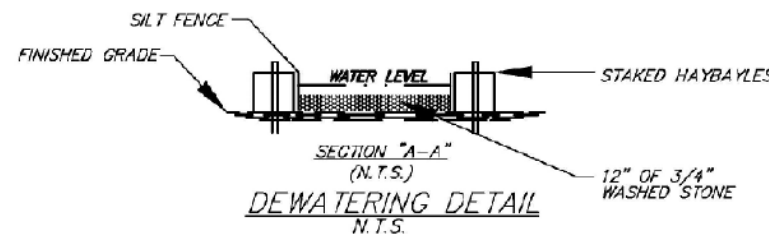
- NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
 2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC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

CONSTRUCTION ENTRANCE

NOT TO SCALE



PLAN (N.T.S.)



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

Figure 5

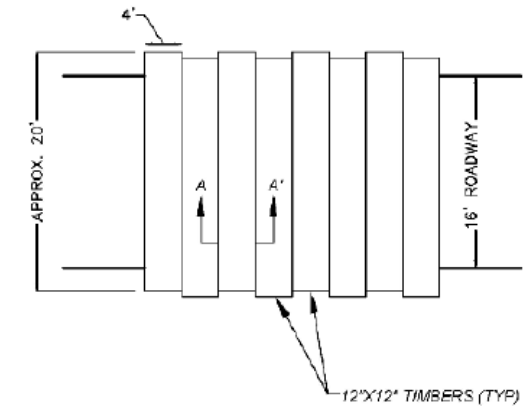
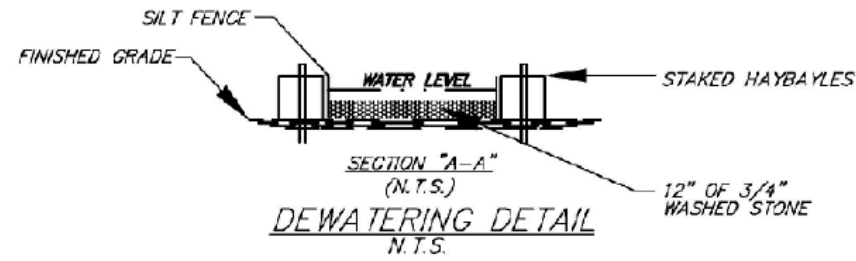
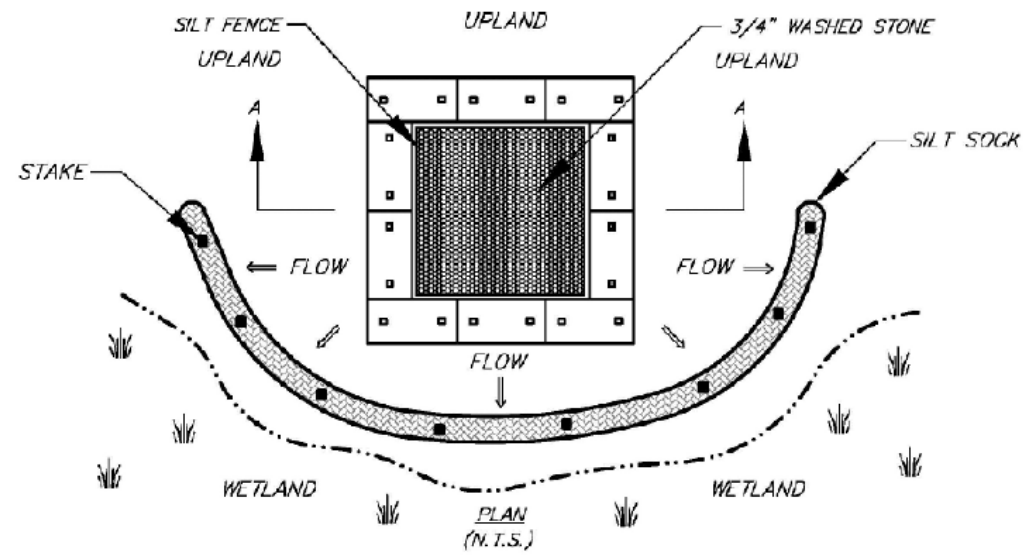
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CHESTER, DEERFIELD, AND STRAFFORD, NEW HAMPSHIRE

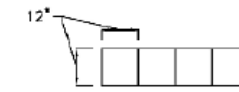
BMP DETAILS

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: EVERSOURCE ENERGY	
PROJ MGR: LEW	REVIEWED BY: AJD	CHECKED BY: DMZ	SHEET 2
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	
DATE: 01/20/2020	PROJECT NO: 04.0190999.05	REVISION NO:	

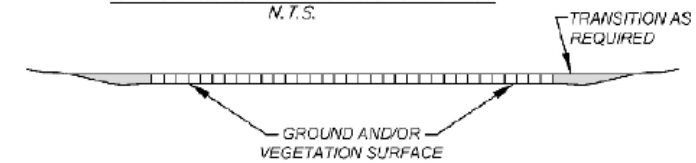
© 2020 - GZA GeoEnvironmental, Inc. \GZA\Bedford\Jobs\04.0190999\05 - EE Sling Permitting 2019-2022\04.0190999\05 - 391, 385, 373, 2020 Structure Replacement\Figures\MXD\2020_391_385_373 AsT NOTESHEET 3.mxd, 1/20/2020, 8:48:24 AM, matthew.deane



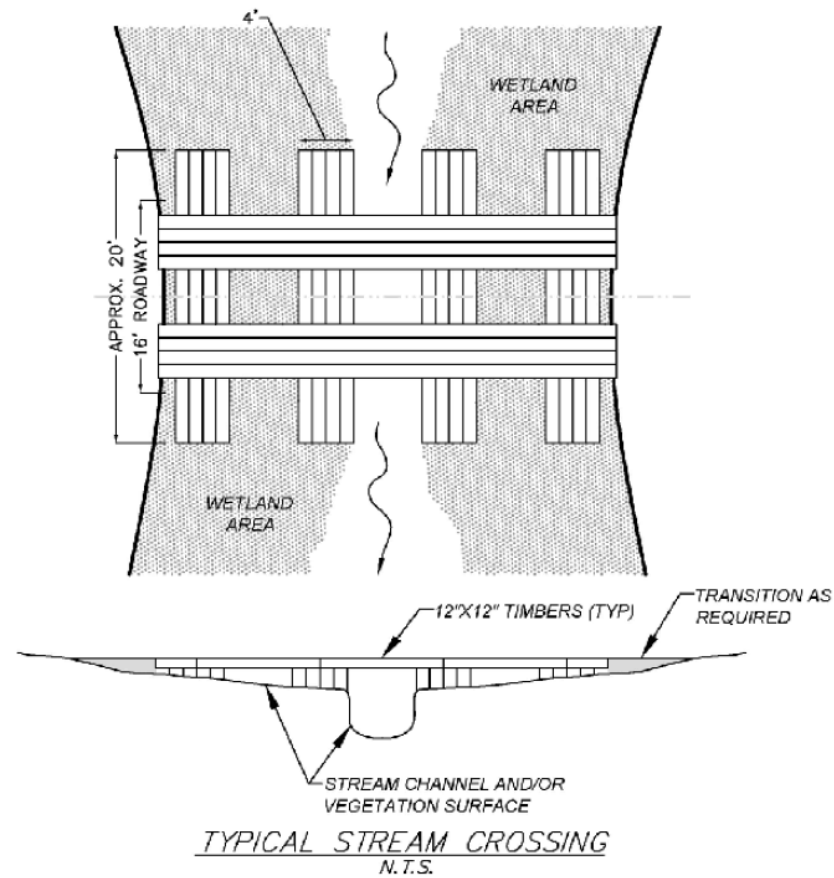
TYPICAL SWAMP MAT PLAN VIEW
N.T.S.



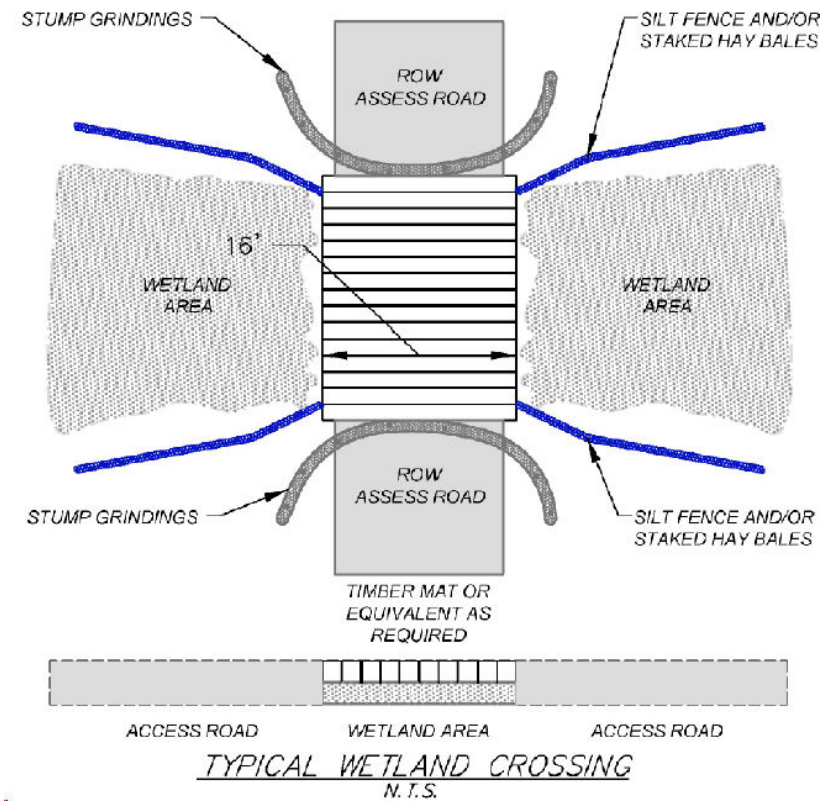
TYPICAL MAT SECTION A-A
N.T.S.



TYPICAL SWAMP MAT SECTION DETAIL
N.T.S.



TYPICAL STREAM CROSSING
N.T.S.



TYPICAL WETLAND CROSSING
N.T.S.

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CHESTER, DEERFIELD, AND STRAFFORD, NEW HAMPSHIRE

BMP DETAILS

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
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PREPARED FOR:
EVERSOURCE
ENERGY

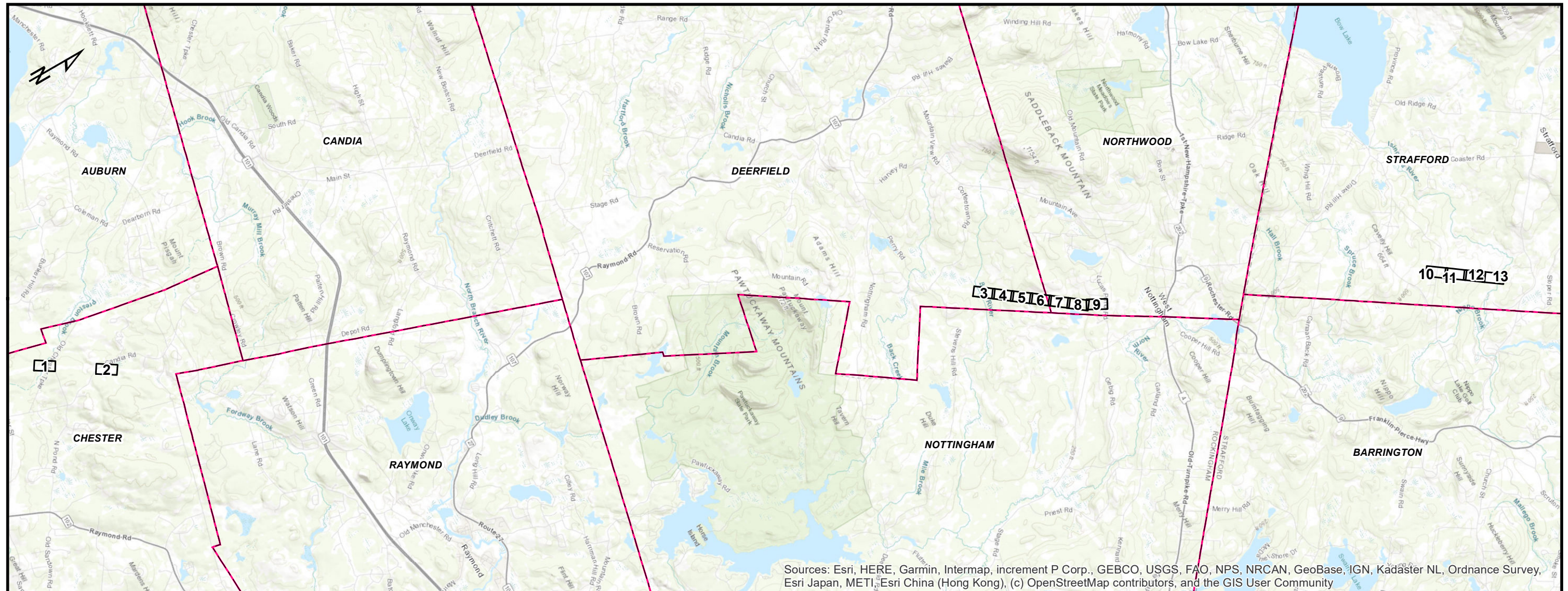
PROJ MGR: LEW	REVIEWED BY: AJD	CHECKED BY: DMZ	SHEET 3
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	
DATE: 01/20/2020	PROJECT NO: 04.0190999.05	REVISION NO.	

391, 385, & 373 TRANSMISSION LINE STRUCTURE REPLACEMENT PROJECT

ALTERATION OF TERRAIN PERMITTING PLANS

CHESTER, DEERFIELD, AND STRAFFORD,
NEW HAMPSHIRE

1/20/2020



PREPARED FOR



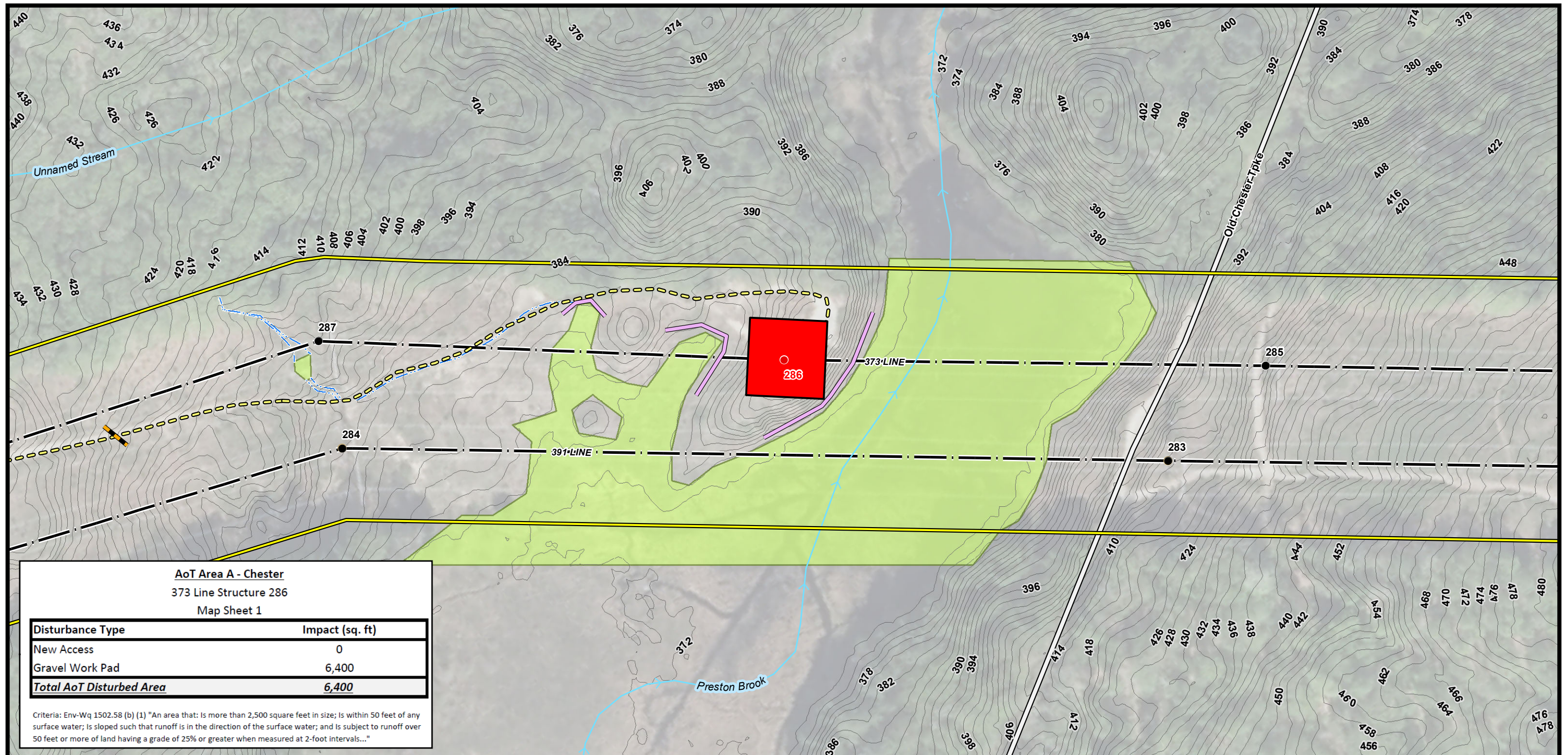
INDEX OF FIGURES

1 inch = 8,000 feet

- T1: TITLE SHEET
- 1-13: MAP SHEETS
- S1: NOTES
- S2: DETAILS
- S3: DETAILS (CONTINUED)

PREPARED BY

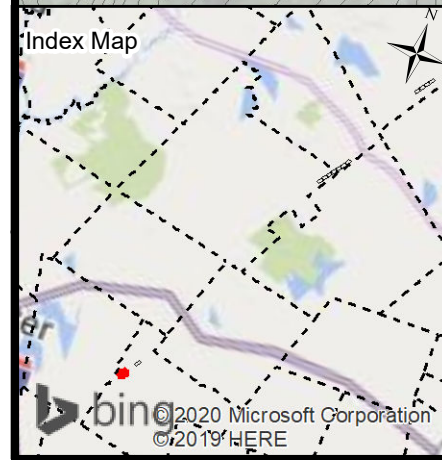




AoT Area A - Chester
373 Line Structure 286
Map Sheet 1

Disturbance Type	Impact (sq. ft)
New Access	0
Gravel Work Pad	6,400
Total AoT Disturbed Area	6,400

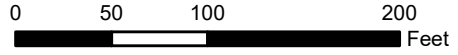
Criteria: Env-Wq 1502.58 (b) (1) "An area that: Is more than 2,500 square feet in size; Is within 50 feet of any surface water; Is sloped such that runoff is in the direction of the surface water; and Is subject to runoff over 50 feet or more of land having a grade of 25% or greater when measured at 2-foot intervals..."



- Londonderry** ←
- EXISTING STRUCTURE
 - STRUCTURE TO BE REPLACES
 - APPROXIMATE ROW
 - ACCESS ROUTE
 - EXISTING IMPROVED ACCESS
 - AoT DISTURBANCE AREA
 - STRAW WATTLE
 - WATER BAR
 - TEMPORARY WETLAND IMPACT
 - PRIME WETLANDS
 - PERENNIAL STREAM CHANNEL BANK
 - INTERMITTENT STREAM CHANNEL BANK
 - FIELD DELINEATED WETLANDS
 - SHORELAND ZONE
 - TOWN BOUNDARY
- TRANSMISSION LINE
- FENCE
 - FENCE GATE
 - ROCK WALL
 - NHDOT ROAD
 - NHD FLOWLINE
 - 2FT ELEVATION CONTOURS

Current Town: **Chester** → Rochester

- NOTES:
1. AERIAL IMAGERY WAS OBTAINED FROM NH GRANIT CLEARINGHOUSE AND IS DATED 2015.
 2. EXISTING STRUCTURE AND TRANSMISSION LINE WERE PROVIDED BY EVERSOURCE ENERGY.
 3. DATA LAYERS INCLUDING "NHDOT ROAD", "NHD FLOWLINE", "TOWN BOUNDARY", AND "PARCEL BOUNDARY" WERE OBTAINED FROM NH GRANIT CLEARINGHOUSE.
 4. APPROXIMATE ROW WAS GENERATED USING MILESHEETS PROVIDED BY EVERSOURCE ENERGY.
 5. THE DATA LAYER "FIELD DELINEATED WETLANDS" WAS DELINEATED BY TIGHE & BOND IN 2018.
 6. WATER MAIN WAS GPS LOCATED BY THE CITY OF ROCHESTER.
 7. 2FT ELEVATION CONTOURS WERE GENERATED USING LIDAR DATA OBTAINED FROM NH GRANIT CLEARINGHOUSE.

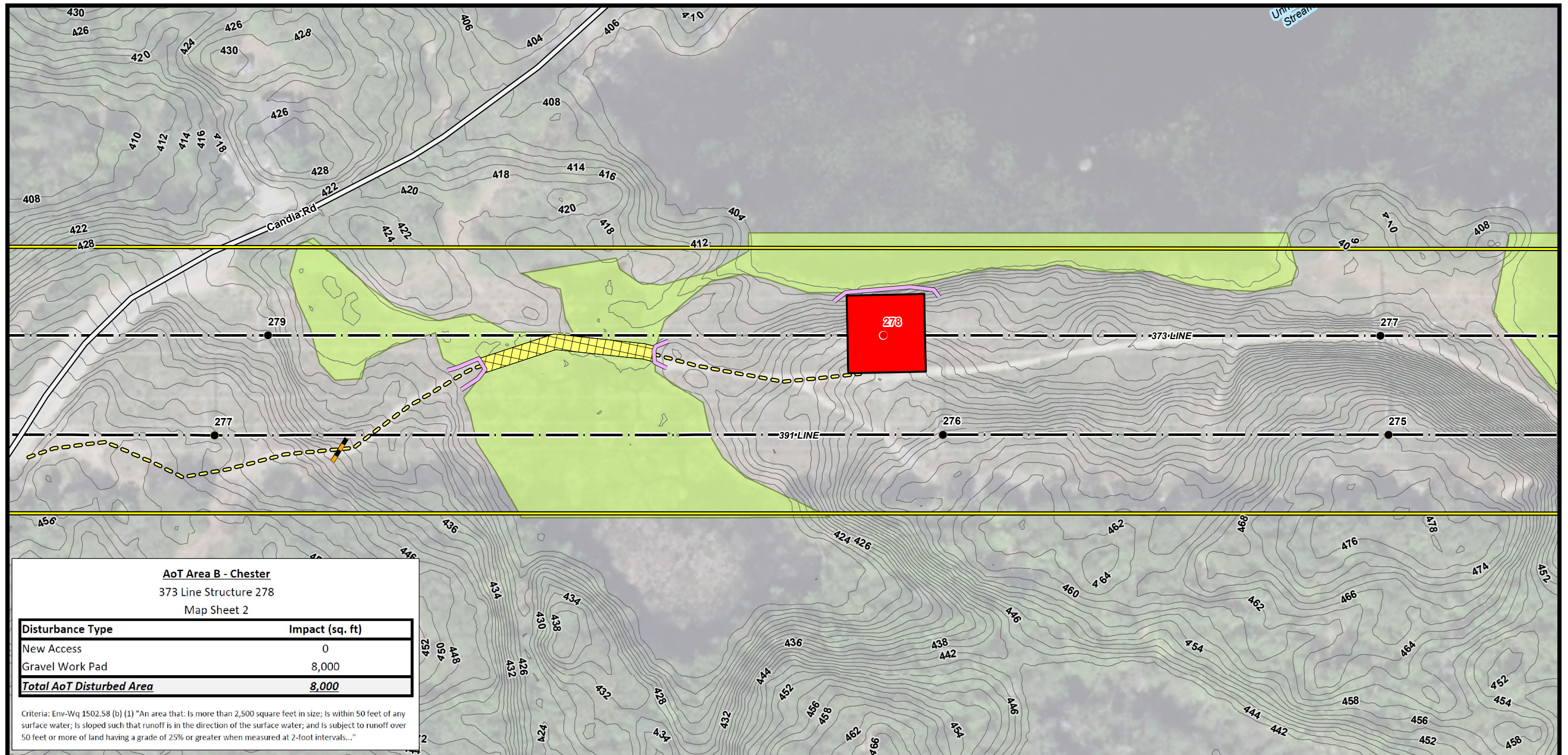


**391, 385, AND 373 TRANSMISSION LINE
STRUCTURE REPLACEMENT PROJECT**

ALTERATION OF TERRAIN
PERMITTING PLANS
JANUARY 20, 2020

CHESTER, DEERFIELD, AND STRAFFORD,
NEW HAMPSHIRE





AoT Area B - Chester
373 Line Structure 278
Map Sheet 2

Disturbance Type	Impact (sq. ft)
New Access	0
Gravel Work Pad	8,000
Total AoT Disturbed Area	8,000

Criteria: Env-Wq 1502.58 (b) (1) "An area that: Is more than 2,500 square feet in size; Is within 50 feet of any surface water; Is sloped such that runoff is in the direction of the surface water; and Is subject to runoff over 50 feet or more of land having a grade of 25% or greater when measured at 2-foot intervals..."



- Londonderry** ←
- EXISTING STRUCTURE
 - STRUCTURE TO BE REPLACES
 - APPROXIMATE ROW
 - ACCESS ROUTE
 - EXISTING IMPROVED ACCESS
 - AoT DISTURBANCE AREA
 - STRAW WATTLE
 - WATER BAR
 - TEMPORARY WETLAND IMPACT
 - PRIME WETLANDS
 - PERENNIAL STREAM CHANNEL BANK
 - INTERMITTENT STREAM CHANNEL BANK
 - FIELD DELINEATED WETLANDS
 - SHORELAND ZONE
 - TOWN BOUNDARY
- TRANSMISSION LINE
- FENCE
- FENCE GATE
- ROCK WALL
- NHDOT ROAD
- NHD FLOWLINE
- 2FT ELEVATION CONTOURS

- Current Town: Chester**
- Rochester** →
- NOTES:
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- 0 50 100 200 Feet

391, 385, AND 373 TRANSMISSION LINE STRUCTURE REPLACEMENT PROJECT

ALTERATION OF TERRAIN PERMITTING PLANS
JANUARY 20, 2020

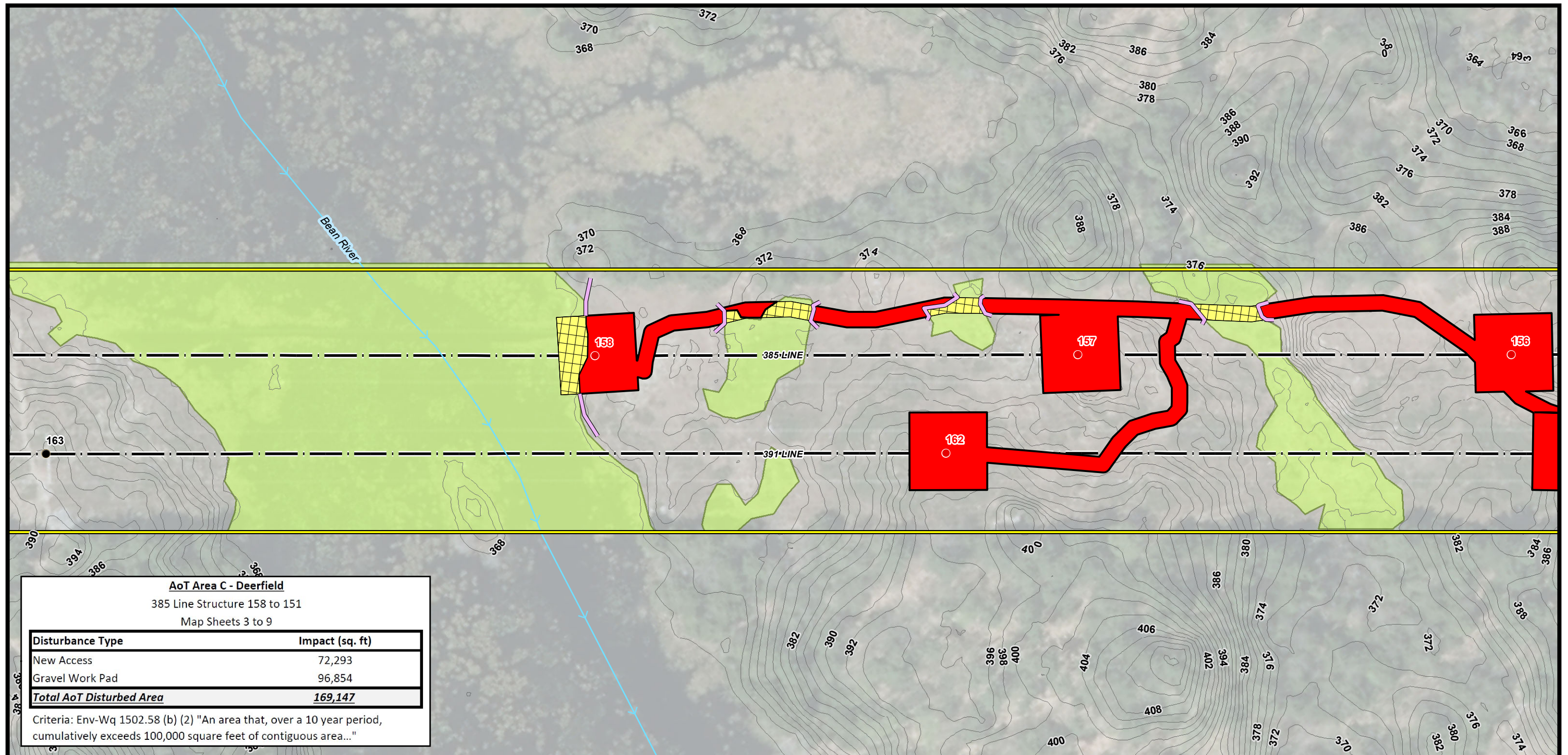
CHESTER, DEERFIELD, AND STRAFFORD, NEW HAMPSHIRE

PAGE 2 OF 13

Project No.: 04.0190999.05 1 inch = 100 feet

EVERSOURCE ENERGY

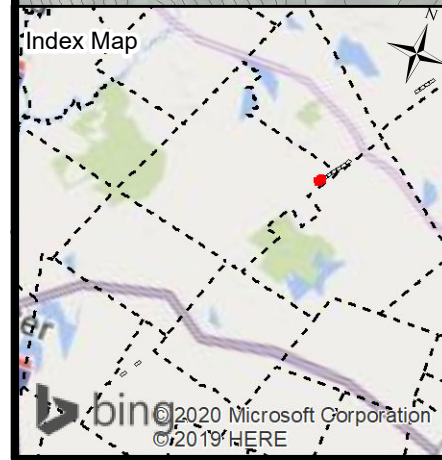
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Engineers and Scientists
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AoT Area C - Deerfield
385 Line Structure 158 to 151
Map Sheets 3 to 9

Disturbance Type	Impact (sq. ft)
New Access	72,293
Gravel Work Pad	96,854
Total AoT Disturbed Area	169,147

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



- Legend**
- EXISTING STRUCTURE
 - STRUCTURE TO BE REPLACES
 - APPROXIMATE ROW
 - ACCESS ROUTE
 - ▨ EXISTING IMPROVED ACCESS
 - AoT DISTURBANCE AREA
 - STRAW WATTLE
 - WATER BAR
 - ▨ TEMPORARY WETLAND IMPACT
 - ▨ PRIME WETLANDS
 - PERENNIAL STREAM CHANNEL BANK
 - INTERMITTENT STREAM CHANNEL BANK
 - ▨ FIELD DELINEATED WETLANDS
 - SHORELAND ZONE
 - TOWN BOUNDARY
 - TRANSMISSION LINE
 - FENCE
 - FENCE GATE
 - ROCK WALL
 - NHDOT ROAD
 - NHD FLOWLINE
 - 2FT ELEVATION CONTOURS

Current Town: Deerfield **Rochester**

NOTES:

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0 50 100 200 Feet

391, 385, AND 373 TRANSMISSION LINE STRUCTURE REPLACEMENT PROJECT

ALTERATION OF TERRAIN PERMITTING PLANS
JANUARY 20, 2020

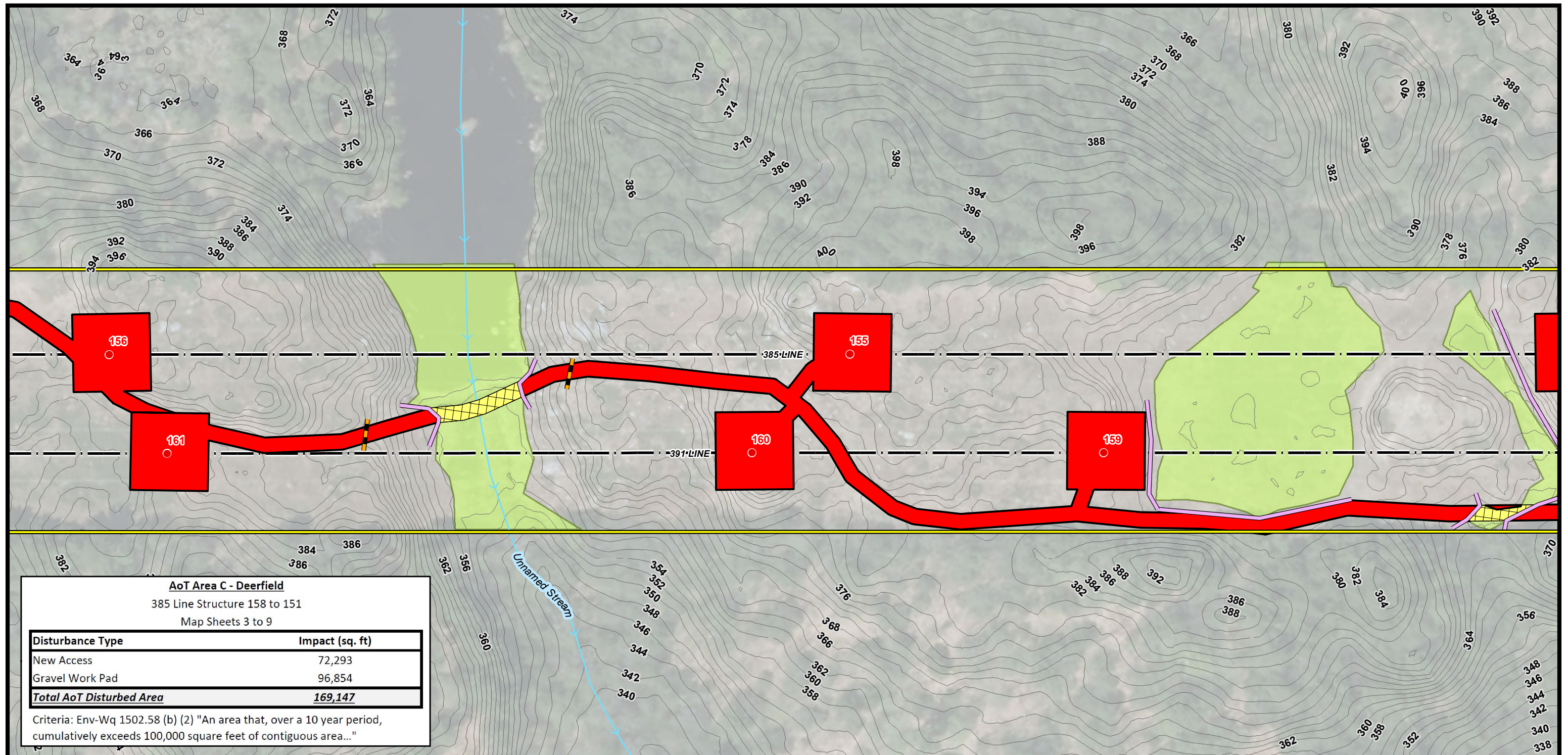
CHESTER, DEERFIELD, AND STRAFFORD, NEW HAMPSHIRE

PAGE 3 OF 13

Project No.: 04.0190999.05 1 inch = 100 feet

EVERSOURCE ENERGY

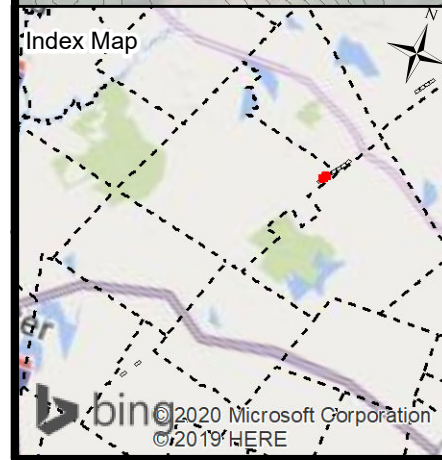
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AoT Area C - Deerfield
385 Line Structure 158 to 151
Map Sheets 3 to 9

Disturbance Type	Impact (sq. ft)
New Access	72,293
Gravel Work Pad	96,854
Total AoT Disturbed Area	169,147

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



- Londonderry** ←
- EXISTING STRUCTURE
 - STRUCTURE TO BE REPLACES
 - APPROXIMATE ROW
 - ACCESS ROUTE
 - ▨ EXISTING IMPROVED ACCESS
 - AoT DISTURBANCE AREA
 - STRAW WATTLE
 - WATER BAR
 - ▨ TEMPORARY WETLAND IMPACT
 - ▨ PRIME WETLANDS
 - PERENNIAL STREAM CHANNEL BANK
 - INTERMITTENT STREAM CHANNEL BANK
 - ▨ FIELD DELINEATED WETLANDS
 - SHORELAND ZONE
 - TOWN BOUNDARY
- Current Town: Deerfield**
- TRANSMISSION LINE
 - FENCE
 - FENCE GATE
 - ROCK WALL
 - NHDOT ROAD
 - NHD FLOWLINE
 - 2FT ELEVATION CONTOURS

Rochester →

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0 50 100 200 Feet

391, 385, AND 373 TRANSMISSION LINE STRUCTURE REPLACEMENT PROJECT

ALTERATION OF TERRAIN PERMITTING PLANS
JANUARY 20, 2020

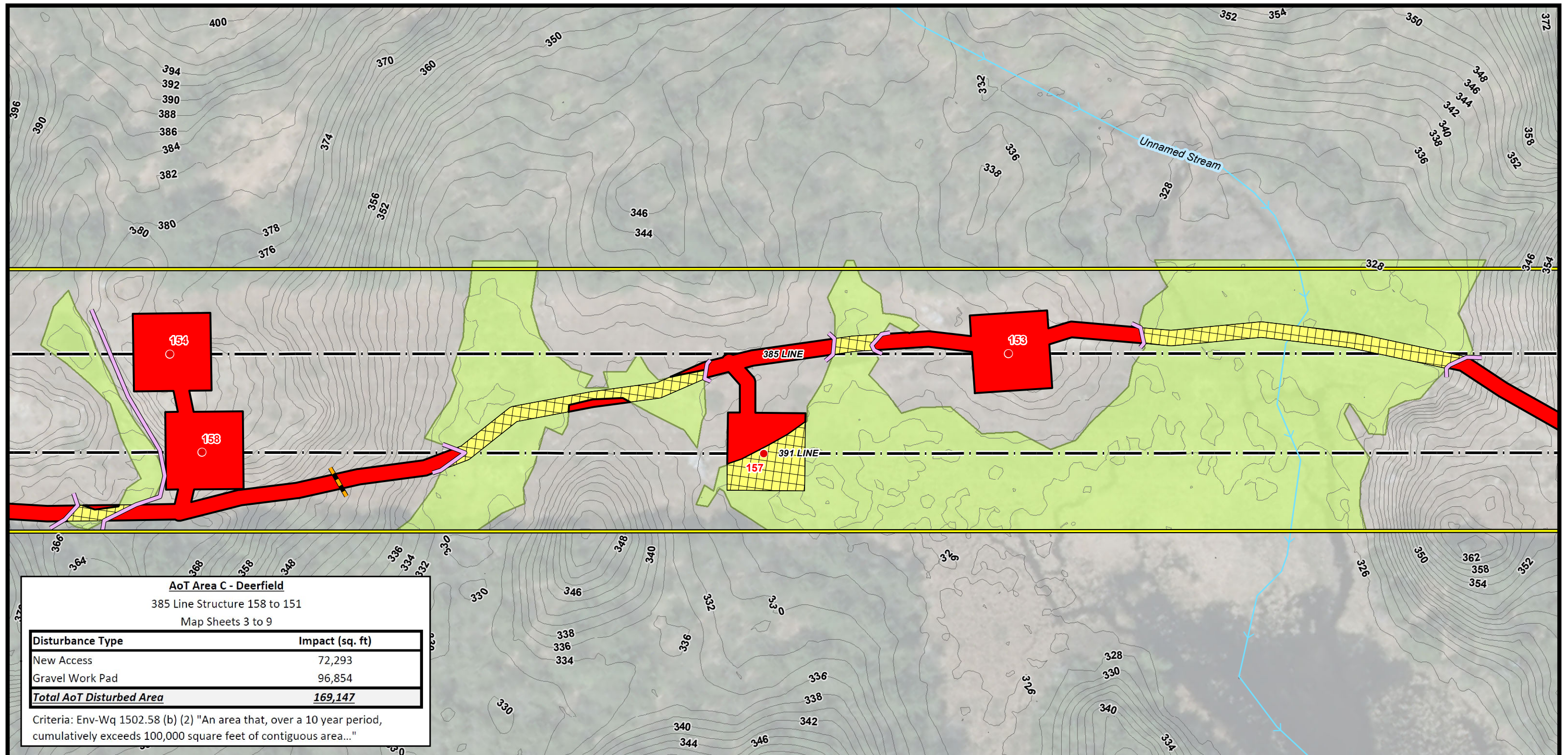
CHESTER, DEERFIELD, AND STRAFFORD, NEW HAMPSHIRE

PAGE 4 OF 13

Project No.: 04.0190999.05 1 inch = 100 feet

EVERSOURCE ENERGY

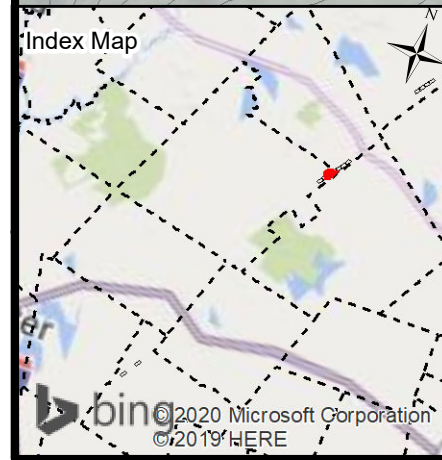
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AoT Area C - Deerfield
385 Line Structure 158 to 151
Map Sheets 3 to 9

Disturbance Type	Impact (sq. ft)
New Access	72,293
Gravel Work Pad	96,854
Total AoT Disturbed Area	169,147

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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- EXISTING STRUCTURE
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 - APPROXIMATE ROW
 - ACCESS ROUTE
 - ▨ EXISTING IMPROVED ACCESS
 - ▨ AoT DISTURBANCE AREA
 - STRAW WATTLE
 - WATER BAR
 - ▨ TEMPORARY WETLAND IMPACT
 - ▨ PRIME WETLANDS
 - PERENNIAL STREAM CHANNEL BANK
 - INTERMITTENT STREAM CHANNEL BANK
 - ▨ FIELD DELINEATED WETLANDS
 - SHORELAND ZONE
 - TOWN BOUNDARY
- TRANSMISSION LINE
 X-X FENCE
 — FENCE GATE
 ○ ROCK WALL
 — NHDOT ROAD
 — NHD FLOWLINE
 — 2FT ELEVATION CONTOURS

Current Town: Deerfield

→ **Rochester**

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0 50 100 200
 Feet

391, 385, AND 373 TRANSMISSION LINE STRUCTURE REPLACEMENT PROJECT

ALTERATION OF TERRAIN PERMITTING PLANS
 JANUARY 20, 2020

CHESTER, DEERFIELD, AND STRAFFORD, NEW HAMPSHIRE

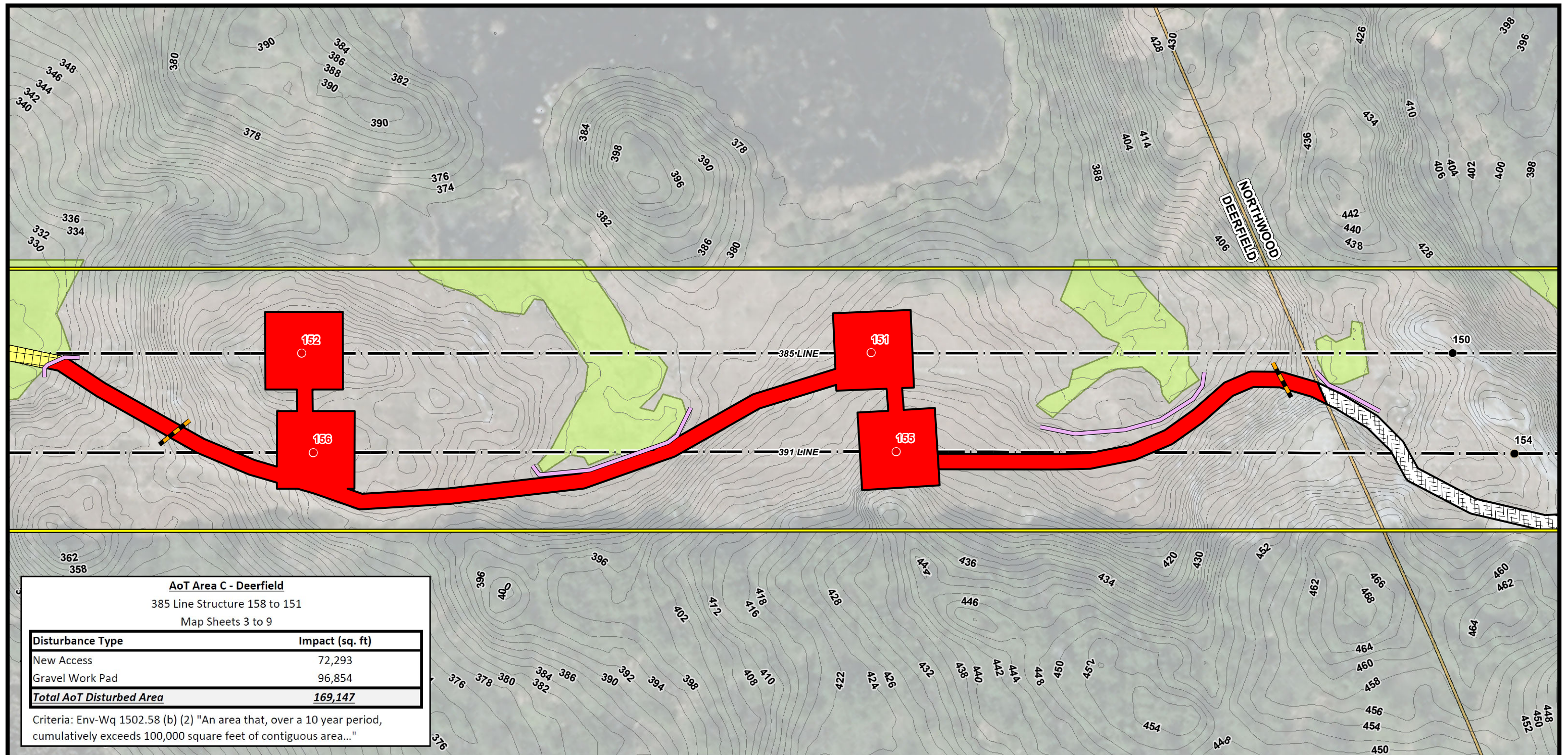
PAGE 5 OF 13

Project No.: 04.0190999.05

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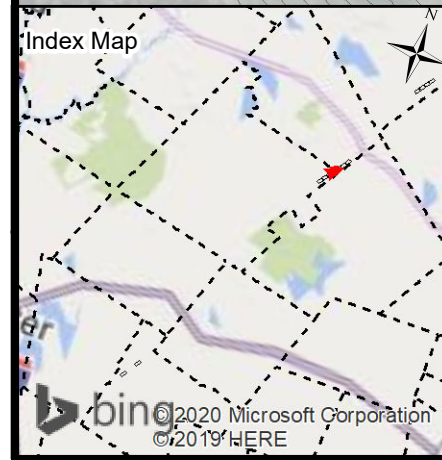
1 inch = 100 feet



AoT Area C - Deerfield
 385 Line Structure 158 to 151
 Map Sheets 3 to 9

Disturbance Type	Impact (sq. ft)
New Access	72,293
Gravel Work Pad	96,854
Total AoT Disturbed Area	169,147

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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 - ACCESS ROUTE
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 - ▨ AoT DISTURBANCE AREA
 - STRAW WATTLE
 - WATER BAR
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 - ▨ PRIME WETLANDS
 - PERENNIAL STREAM CHANNEL BANK
 - INTERMITTENT STREAM CHANNEL BANK
 - ▨ FIELD DELINEATED WETLANDS
 - SHORELAND ZONE
 - TOWN BOUNDARY
- Current Town: Deerfield/Northwood**
- TRANSMISSION LINE
 - FENCE
 - FENCE GATE
 - ROCK WALL
 - NHDOT ROAD
 - NHD FLOWLINE
 - 2FT ELEVATION CONTOURS

Rochester →

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0 50 100 200 Feet

391, 385, AND 373 TRANSMISSION LINE STRUCTURE REPLACEMENT PROJECT

ALTERATION OF TERRAIN PERMITTING PLANS
 JANUARY 20, 2020

CHESTER, DEERFIELD, AND STRAFFORD, NEW HAMPSHIRE

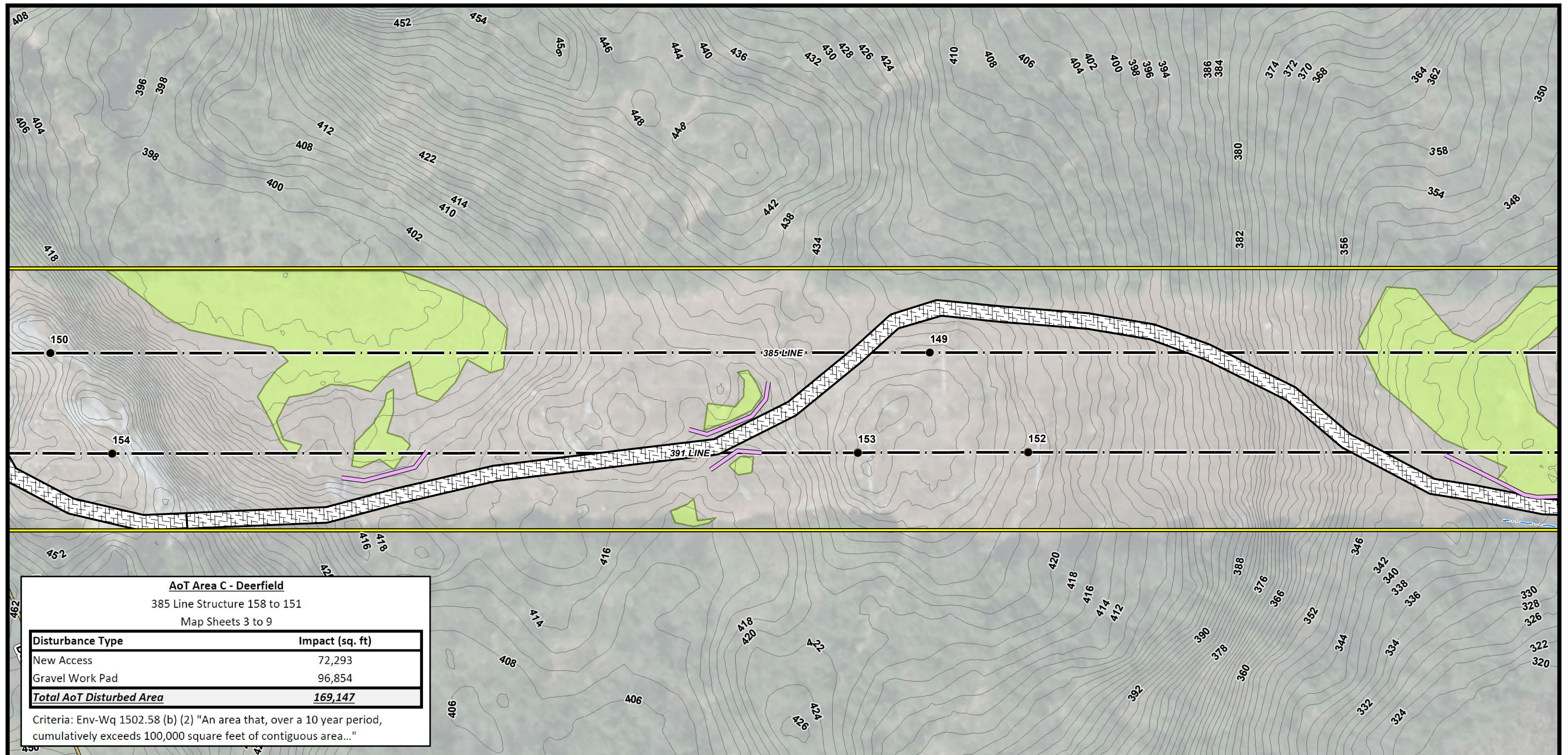
PAGE 6 OF 13

Project No.: 04.0190999.05

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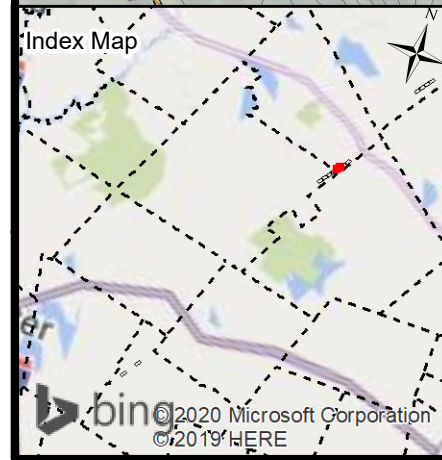
1 inch = 100 feet



AoT Area C - Deerfield
385 Line Structure 158 to 151
Map Sheets 3 to 9

Disturbance Type	Impact (sq. ft)
New Access	72,293
Gravel Work Pad	96,854
Total AoT Disturbed Area	169,147

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



- Londonderry** ←
- EXISTING STRUCTURE
 - STRUCTURE TO BE REPLACES
 - APPROXIMATE ROW
 - ACCESS ROUTE
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 - AoT DISTURBANCE AREA
 - STRAW WATTLE
 - WATER BAR
 - ▨ TEMPORARY WETLAND IMPACT
 - ▨ PRIME WETLANDS
 - PERENNIAL STREAM CHANNEL BANK
 - INTERMITTENT STREAM CHANNEL BANK
 - ▨ FIELD DELINEATED WETLANDS
 - SHORELAND ZONE
 - TOWN BOUNDARY

- Current Town: Northwood**
- TRANSMISSION LINE
 - FENCE
 - FENCE GATE
 - ROCK WALL
 - NHDOT ROAD
 - NHD FLOWLINE
 - 2FT ELEVATION CONTOURS
- Rochester** →
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- 0 50 100 200 Feet

391, 385, AND 373 TRANSMISSION LINE STRUCTURE REPLACEMENT PROJECT

ALTERATION OF TERRAIN PERMITTING PLANS
JANUARY 20, 2020

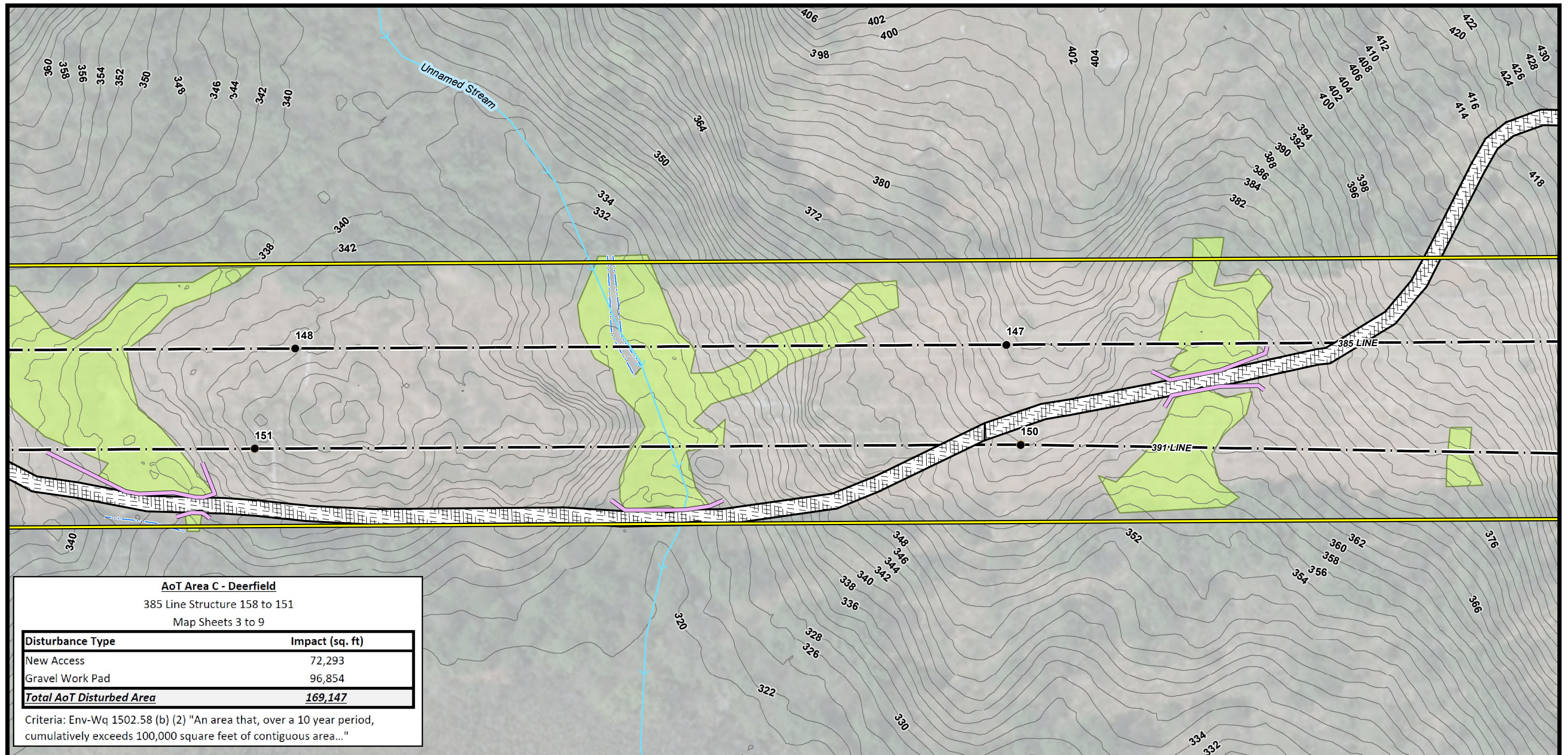
CHESTER, DEERFIELD, AND STRAFFORD, NEW HAMPSHIRE

PAGE 7 OF 13

Project No.: 04.0190999.05 1 inch = 100 feet

EVERSOURCE ENERGY

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AoT Area C - Deerfield

385 Line Structure 158 to 151
Map Sheets 3 to 9

Disturbance Type	Impact (sq. ft)
New Access	72,293
Gravel Work Pad	96,854
Total AoT Disturbed Area	169,147

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



- Londonderry** ←
- EXISTING STRUCTURE
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 - APPROXIMATE ROW
 - ACCESS ROUTE
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 - ▨ INTERMITTENT STREAM CHANNEL BANK
 - ▨ FIELD DELINEATED WETLANDS
 - ▨ SHORELAND ZONE
 - ▨ TOWN BOUNDARY
- Current Town: Northwood**
- TRANSMISSION LINE
 - FENCE
 - FENCE GATE
 - ROCK WALL
 - NHDOT ROAD
 - NHD FLOWLINE
 - 2FT ELEVATION CONTOURS
- **Rochester**

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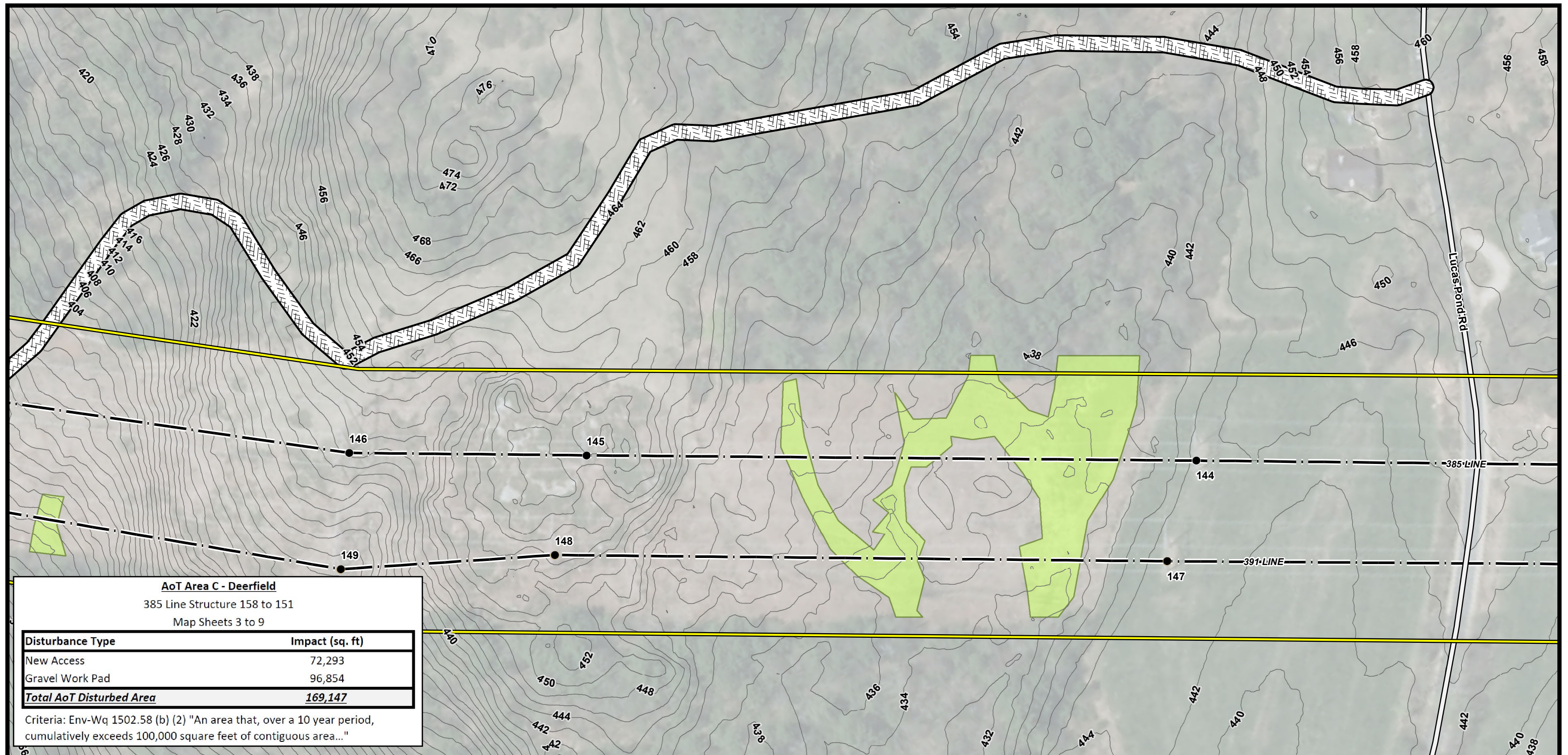
0 50 100 200 Feet

391, 385, AND 373 TRANSMISSION LINE STRUCTURE REPLACEMENT PROJECT

ALTERATION OF TERRAIN PERMITTING PLANS
JANUARY 20, 2020

CHESTER, DEERFIELD, AND STRAFFORD, NEW HAMPSHIRE



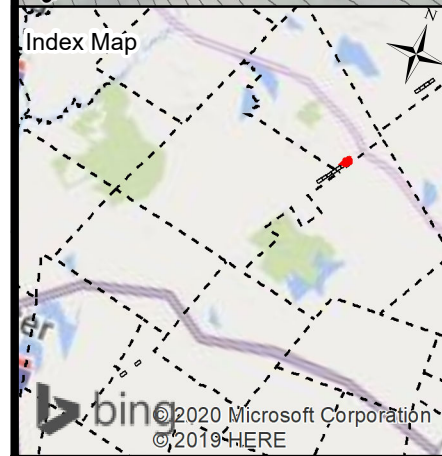


AoT Area C - Deerfield

385 Line Structure 158 to 151
Map Sheets 3 to 9

Disturbance Type	Impact (sq. ft)
New Access	72,293
Gravel Work Pad	96,854
Total AoT Disturbed Area	169,147

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

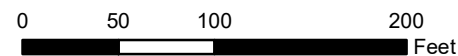


- Londonderry** ←
- EXISTING STRUCTURE
 - STRUCTURE TO BE REPLACES
 - APPROXIMATE ROW
 - ACCESS ROUTE
 - ▨ EXISTING IMPROVED ACCESS
 - ▨ AoT DISTURBANCE AREA
 - ▨ STRAW WATTLE
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 - ▨ PERENNIAL STREAM CHANNEL BANK
 - ▨ INTERMITTENT STREAM CHANNEL BANK
 - ▨ FIELD DELINEATED WETLANDS
 - ▨ SHORELAND ZONE
 - ▨ TOWN BOUNDARY
- TRANSMISSION LINE
- ✂ FENCE
 - FENCE GATE
 - ROCK WALL
 - NHDOT ROAD
 - NHD FLOWLINE
 - 2FT ELEVATION CONTOURS

Current Town: Northwood

Rochester →

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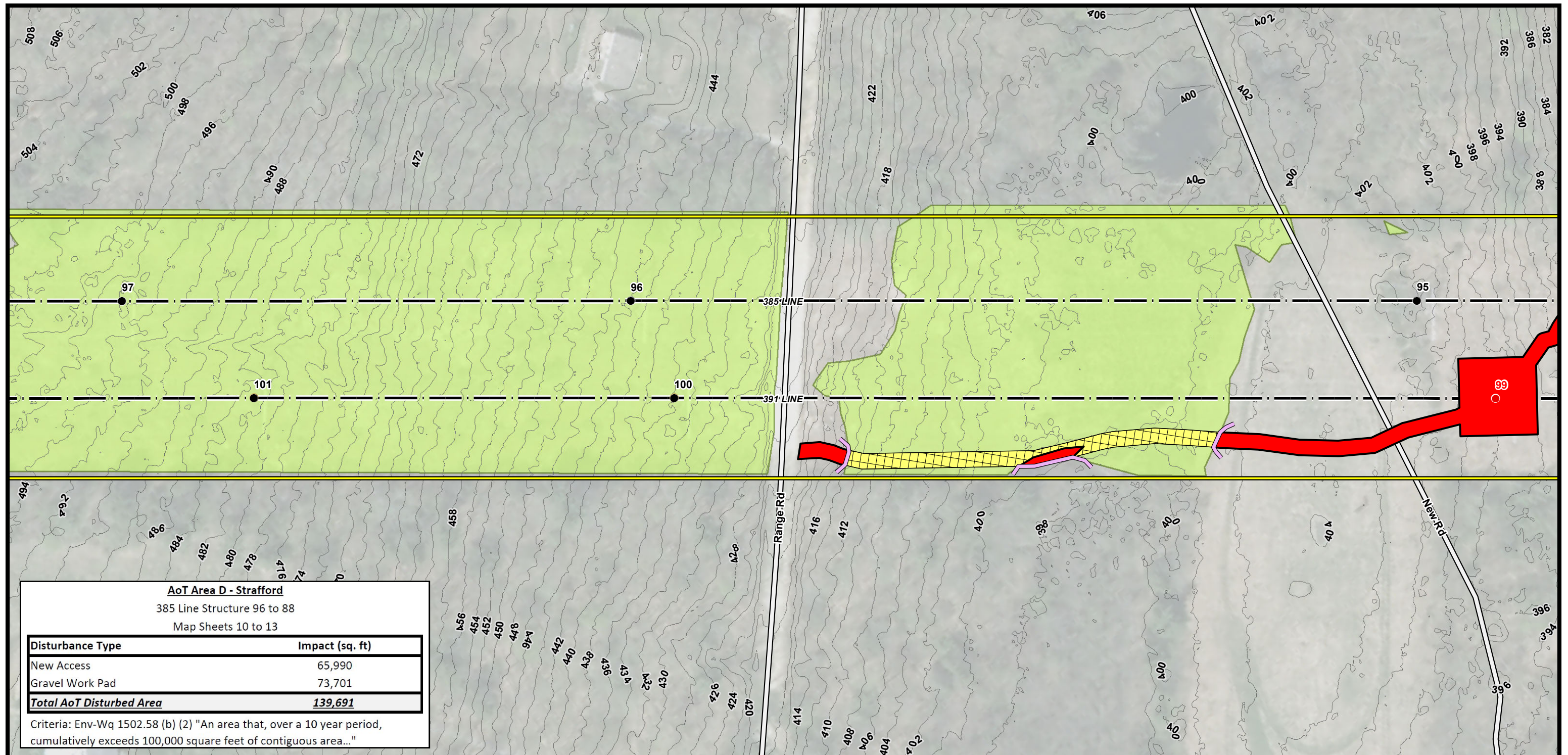


391, 385, AND 373 TRANSMISSION LINE STRUCTURE REPLACEMENT PROJECT

ALTERATION OF TERRAIN PERMITTING PLANS
JANUARY 20, 2020

CHESTER, DEERFIELD, AND STRAFFORD, NEW HAMPSHIRE

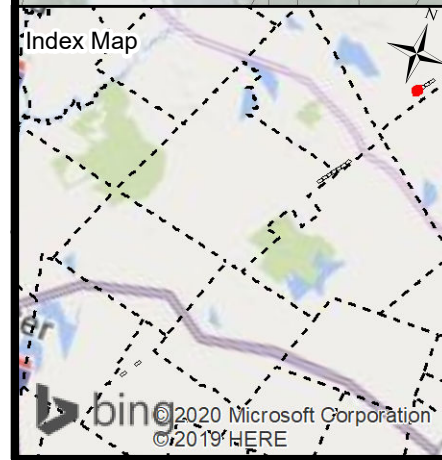




AoT Area D - Strafford
385 Line Structure 96 to 88
Map Sheets 10 to 13

Disturbance Type	Impact (sq. ft)
New Access	65,990
Gravel Work Pad	73,701
Total AoT Disturbed Area	139,691

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



- Londonderry** ←
- EXISTING STRUCTURE
 - STRUCTURE TO BE REPLACES
 - APPROXIMATE ROW
 - ACCESS ROUTE
 - ▨ EXISTING IMPROVED ACCESS
 - ▨ AoT DISTURBANCE AREA
 - ▨ STRAW WATTLE
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 - ▨ TEMPORARY WETLAND IMPACT
 - ▨ PRIME WETLANDS
 - ▨ PERENNIAL STREAM CHANNEL BANK
 - ▨ INTERMITTENT STREAM CHANNEL BANK
 - ▨ FIELD DELINEATED WETLANDS
 - ▨ SHORELAND ZONE
 - ▨ TOWN BOUNDARY
- Current Town: Strafford**
- TRANSMISSION LINE
 - ✕ FENCE
 - FENCE GATE
 - ROCK WALL
 - NHDOT ROAD
 - NHD FLOWLINE
 - 2FT ELEVATION CONTOURS
- **Rochester**

NOTES:

1. AERIAL IMAGERY WAS OBTAINED FROM NH GRANIT CLEARINGHOUSE AND IS DATED 2015.
2. EXISTING STRUCTURE AND TRANSMISSION LINE WERE PROVIDED BY EVERSOURCE ENERGY.
3. DATA LAYERS INCLUDING "NHDOT ROAD", "NHD FLOWLINE", "TOWN BOUNDARY", AND "PARCEL BOUNDARY" WERE OBTAINED FROM NH GRANIT CLEARINGHOUSE.
4. APPROXIMATE ROW WAS GENERATED USING MILESHEETS PROVIDED BY EVERSOURCE ENERGY.
5. THE DATA LAYER "FIELD DELINEATED WETLANDS" WAS DELINEATED BY TIGHE & BOND IN 2018.
6. WATER MAIN WAS GPS LOCATED BY THE CITY OF ROCHESTER.
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0 50 100 200 Feet

**391, 385, AND 373 TRANSMISSION LINE
STRUCTURE REPLACEMENT PROJECT**

ALTERATION OF TERRAIN
PERMITTING PLANS
JANUARY 20, 2020

CHESTER, DEERFIELD, AND STRAFFORD,
NEW HAMPSHIRE

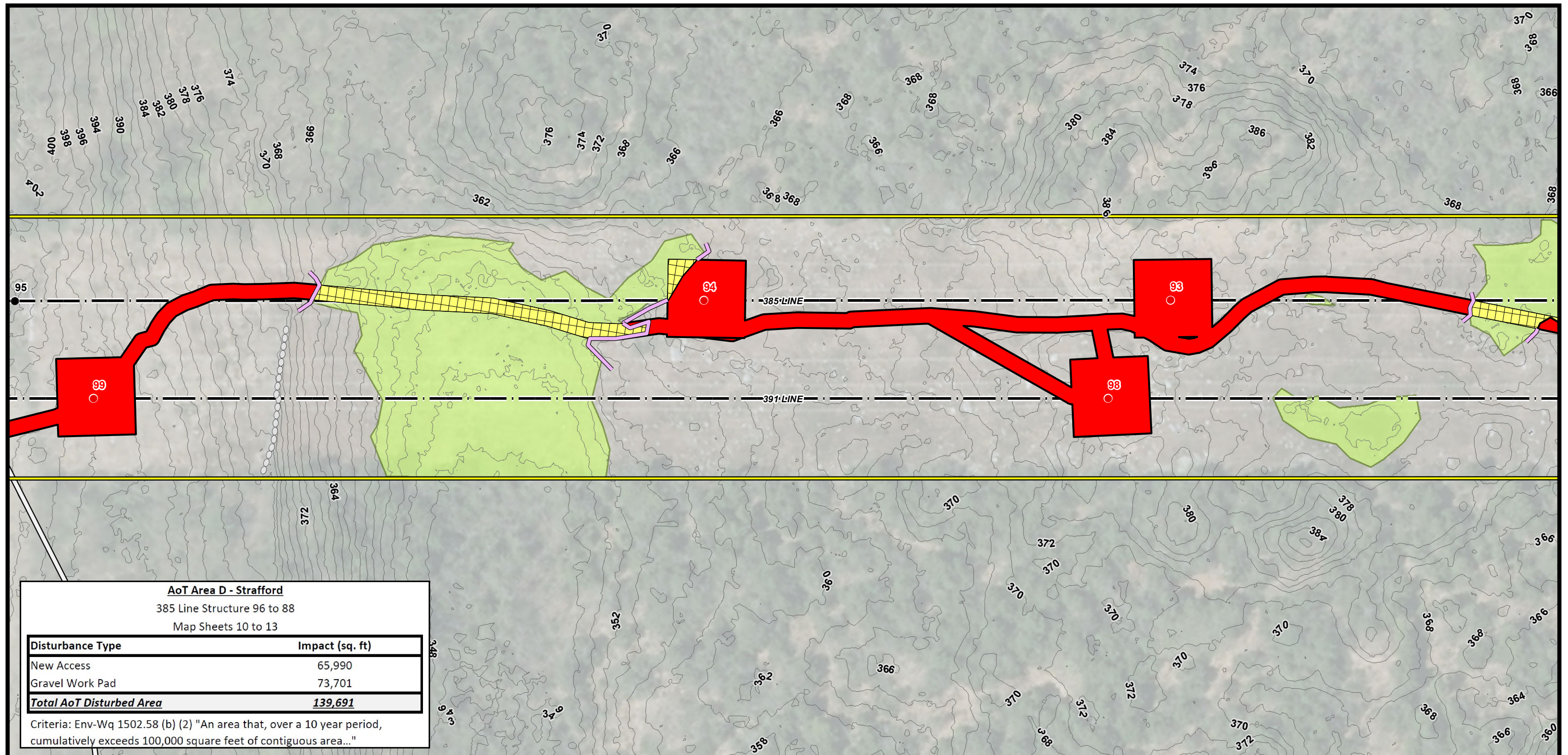
PAGE 10 OF 13

Project No.: 04.0190999.05

EVERSOURCE ENERGY

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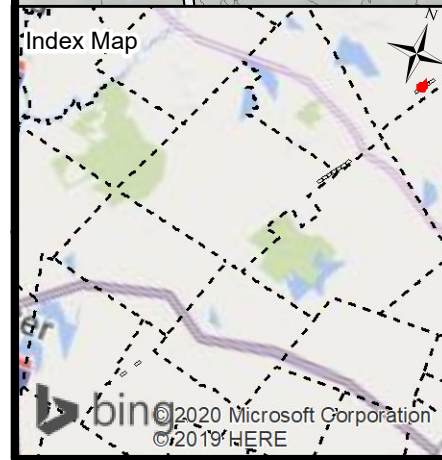
1 inch = 100 feet



AoT Area D - Strafford
 385 Line Structure 96 to 88
 Map Sheets 10 to 13

Disturbance Type	Impact (sq. ft)
New Access	65,990
Gravel Work Pad	73,701
Total AoT Disturbed Area	139,691

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



- Londonderry** ←
- EXISTING STRUCTURE
 - STRUCTURE TO BE REPLACES
 - APPROXIMATE ROW
 - ACCESS ROUTE
 - ▨ EXISTING IMPROVED ACCESS
 - AoT DISTURBANCE AREA
 - STRAW WATTLE
 - WATER BAR
 - ▨ TEMPORARY WETLAND IMPACT
 - ▨ PRIME WETLANDS
 - PERENNIAL STREAM CHANNEL BANK
 - INTERMITTENT STREAM CHANNEL BANK
 - ▨ FIELD DELINEATED WETLANDS
 - SHORELAND ZONE
 - TOWN BOUNDARY
- Current Town: Strafford**
- TRANSMISSION LINE
 - FENCE
 - FENCE GATE
 - ROCK WALL
 - NHDOT ROAD
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391, 385, AND 373 TRANSMISSION LINE STRUCTURE REPLACEMENT PROJECT

ALTERATION OF TERRAIN PERMITTING PLANS
 JANUARY 20, 2020

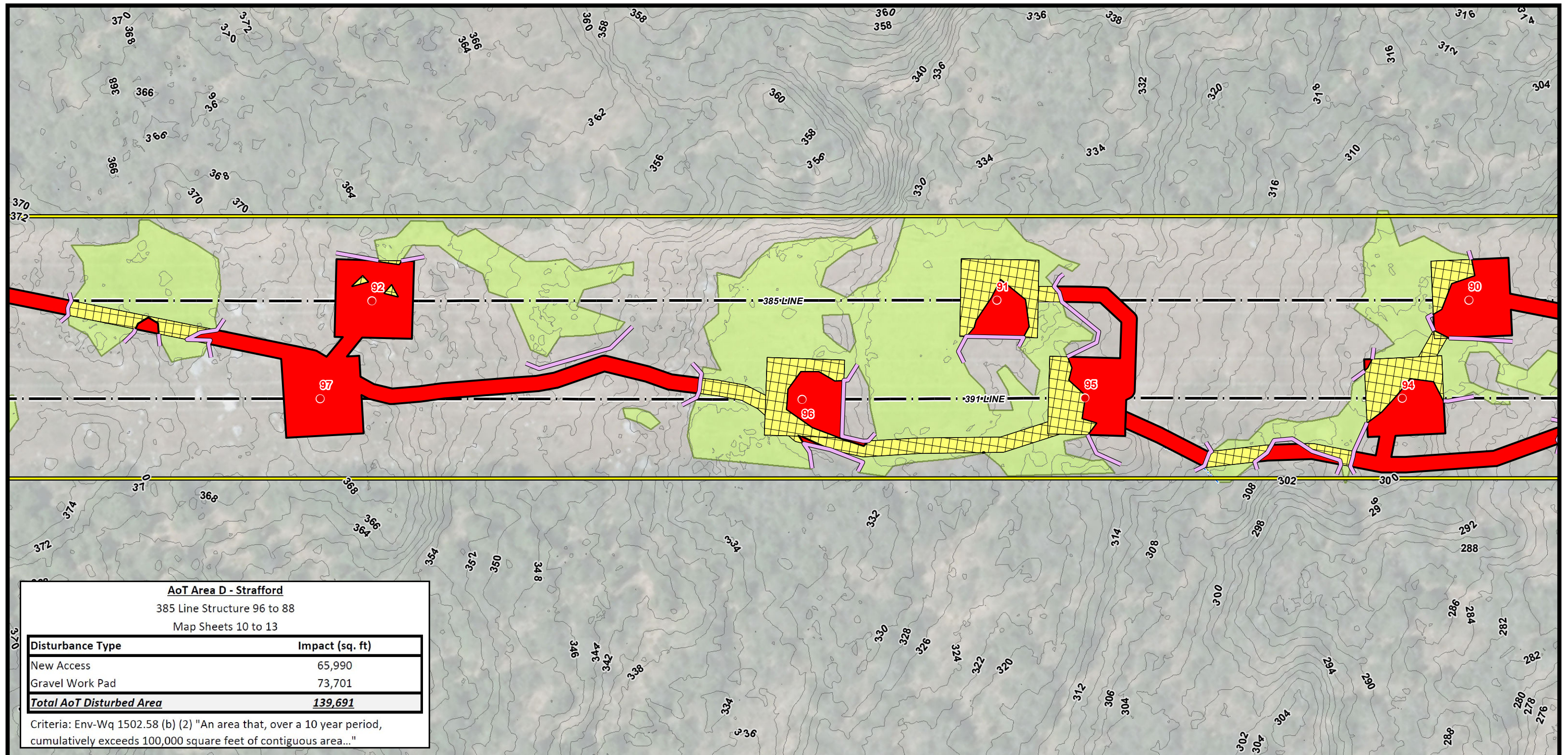
CHESTER, DEERFIELD, AND STRAFFORD,
 NEW HAMPSHIRE

PAGE 11 OF 13

Project No.: 04.0190999.05 1 inch = 100 feet

EVSOURCE ENERGY

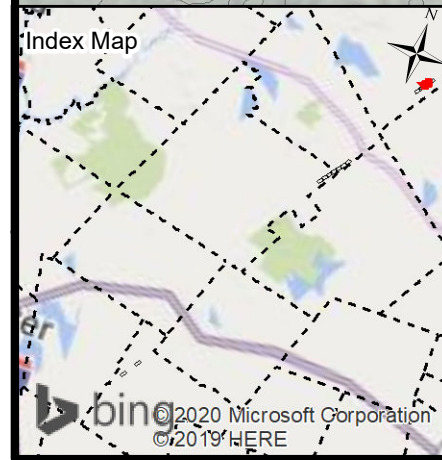
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385 Line Structure 96 to 88
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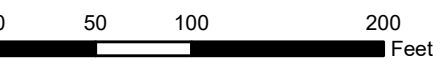
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- Legend**
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 - TOWN BOUNDARY

Current Town: **Strafford**

- Legend (continued)**
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 - FENCE
 - FENCE GATE
 - ROCK WALL
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EVERSOURCE ENERGY

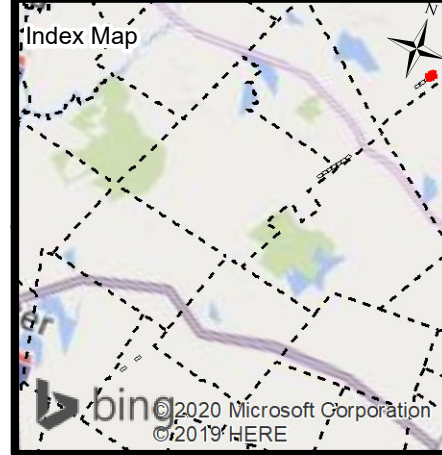
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 JANUARY 20, 2020

CHESTER, DEERFIELD, AND STRAFFORD, NEW HAMPSHIRE

PAGE 13 OF 13

Project No.: 04.0190999.05 1 inch = 100 feet

EVERSOURCE ENERGY

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 Engineers and Scientists
 www.gza.com

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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.
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 TIMBER MATS WHERE REQUIRED.
8. LOW GROWING VARIETIES OF VEGETATION ADJACENT TO WETLANDS SHALL BE PRESERVED TO THE EXTENT POSSIBLE. STUMPS AND ROCKS SHALL NOT BE REMOVED, AND THERE SHALL BE NO EXCAVATIONS, FILLS OR GRADING DONE ADJACENT TO WETLANDS, UNLESS MINOR EXCAVATIONS IS NEEDED FOR ACCESS.
9. TIMBER MATS WILL BE USED ALONG ACCESS ROUTES WITHIN WETLAND AREAS. THESE MATS ARE CONSTRUCTED OF HEAVY TIMBERS OR COMPOSITE MATERIAL, BOLTED TOGETHER, AND ARE PLACED END-TO-END IN THE WETLAND TO SUPPORT HEAVY EQUIPMENT. ALL SWAMP MATS SHALL BE PLACED AND REMOVED SO AS NOT TO CAUSE ANY RUTS, CHANNELS OR DEPRESSIONS, OR OTHERWISE CAUSE ANY UNDUE DISTURBANCE TO WETLANDS.
10. IF TIMBER MAT BMP IS NOT SUFFICIENT DUE TO HIGH WATER, ADDITIONAL BMP'S MAY INCLUDE THE PLACEMENT OF GEOTEXTILE FABRIC, 3"-4" STONE, AND GRAVEL TO PROVIDE A SUITABLE ROAD BED. A TEMPORARY CULVERT MAY BE REQUIRED IN AREAS OF HIGH FLOW TO MAINTAIN HYDROLOGIC CONNECTIVITY. ALL MATERIAL WILL BE REMOVED FROM JURISDICTIONAL AREAS AFTER CONSTRUCTION COMPLETION.
11. NO MATERIAL SHALL BE PLACED IN ANY LOCATION OR IN ANY MANNER SO AS TO IMPAIR SURFACE WATER FLOW INTO, THROUGH OR OUT OF ANY WETLAND AREA. NO INSTALLATION SHALL CREATE AN IMPOUNDMENT THAT WILL IMPEDE THE FLOW OF WATER OR CAUSE FLOODING.
12. NO MATERIAL SHALL BE TAKEN FROM THE WETLANDS AREA EXCEPT THAT WHICH MUST NECESSARILY BE REMOVED FOR THE STRUCTURE OR FOUNDATION PLACEMENT OR STABILIZATION. ALL EXCESS MATERIAL TAKEN FROM THE WETLAND WILL BE REMOVED FROM THE SITE.
13. ANY PROPOSED SUPPORT FILLS SHALL BE CLEAN GRAVEL AND STONE, FREE OF WASTE METAL PRODUCTS, ORGANIC MATERIALS AND SIMILAR DEBRIS AND SHALL NOT EXCEED THE AMOUNT PERMITTED. THIS ALLOWABLE FILL IS THE ONLY FILL THAT MAY REMAIN IN THE WETLAND AFTER CONSTRUCTION. ALL CUT AND FILLS SLOPES SHALL BE SEEDED/LOAMED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
14. 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. ALL SWAMP MATS, MATERIAL, AND DEBRIS WILL BE REMOVED FROM THE WORK AREA UPON THE COMPLETION OF CONSTRUCTION.
17. 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.
18. 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.
19. SEDIMENT AND EROSION CONTROL MEASURES WILL BE EVALUATED AND REMOVED IF NECESSARY UPON THE COMPLETION OF CONSTRUCTION.
20. COMMERCIAL LOAM WILL NOT BE USED AS PART OF RESTORATION. ONLY IN-SITU TOPSOIL WILL BE USED TO RESTORE DISTURBED AREAS.
21. 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.

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 DELINEATED BY TIGHE AND BOND IN 2018, 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 WERE REVIEWED BY GZA GEOENVIRONMENTAL, INC. IN JANUARY AND FEBRUARY 2019.
3. GZA PERFORMED A WETLANDS FUNCTION AND VALUES ASSESSMENT IN ACCORDANCE WITH THE ACOE'S "HIGHWAY METHODOLOGY WORKBOOK SUPPLEMENT," SEPTEMBER 1999, IN THE TOWN OF STRAFFORD.
4. SITE PLAN IS FOR PERMITTING PURPOSES ONLY AND DOES NOT REPRESENT A PROPERTY BOUNDARY SURVEY.
5. THE PROJECT WILL BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.
6. 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.
7. IN THE EVENT THAT A RARE OR THREATENED SPECIES IS OBSERVED, THE NEW HAMPSHIRE FISH AND GAME AND NEW HAMPSHIRE NATURAL HERITAGE BUREAU WILL BE NOTIFIED. TURTLE NESTING SEASON EXTENDS FROM LATE MAY THROUGH THE BEGINNING OF JULY. IF WOOD, BLANDING'S OR SPOTTED TURTLES ARE FOUND LAYING EGGS IN THE WORK AREA, CONTACT MELISSA DOPERALSKI AT 603-271-1738 OR JOSH MEGYESY AT 603-271-1125 FOR FURTHER INSTRUCTIONS. OBSERVATIONS OF NORTHERN BLACK RACER SNAKES SEEN IN ANY AREA FROM THE END OF SEPTEMBER THROUGH THE MONTH OF APRIL MUST BE IMMEDIATELY REPORTED TO THE NHFG DEPARTMENT (BRENDAN CLIFFORD AT 603-271-0463 OR MELISSA DOPERALSKI AT 603-271-1738). IF NORTHERN BLACK RACER IS FOUND IN A WORK AREA FROM NOVEMBER THROUGH THE MONTH OF APRIL, WORK SHALL IMMEDIATELY CEASE AND THE OBSERVATION MUST BE REPORTED TO THE NHFG (BRENDAN CLIFFORD OR MELISSA DOPERALSKI).
8. TEMPORARY OR PERMANENT IMPACTS TO IDENTIFIED POTENTIAL OR SUSPECT VERNAL POOLS ARE PROHIBITED. ANY OBSERVATION OF ANY ADDITIONAL SUSPECT VERNAL POOLS ARE TO BE REPORTED TO NHFG PERSONNEL.


EROSION CONTROL NOTES:

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

391, 385, & 373 TRANSMISSION LINE STRUCTURE REPLACEMENT PROJECT
CHESTER, DEERFIELD, AND STRAFFORD, NEW HAMPSHIRE

NOTES

PREPARED BY:  GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: EVERSOURCE ENERGY	
PROJ MGR: LEW	REVIEWED BY: AJD	CHECKED BY: DMZ	SHEET 1
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	
DATE: 03/23/2020	PROJECT NO: 04.0190999.05	REVISION NO.	

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Best Management Practices (BMP's) for Straw wattles

Definition and purpose:

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

Applications:

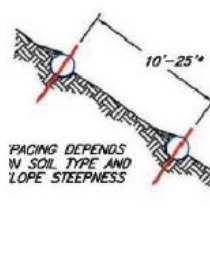
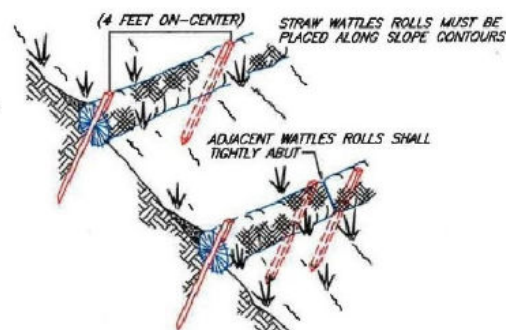
- * Along erodible or unstabilized slopes
- * Spread overland waterflow
- * Trap sediment
- * Around storm drain inlets to slow water and settle out sediment
- * Overlap ends approximately 6 inches

Installation:

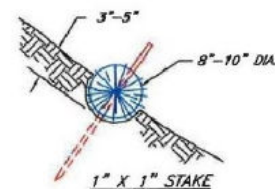
Straw wattles are installed parallel to slope contours and perpendicular to sheet flow.

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

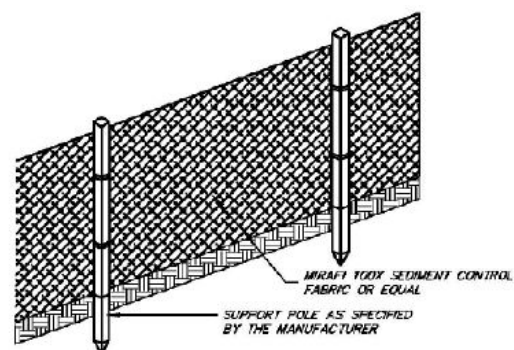
Trenching - 2"-5" inch trench
Stacking - at each end and four foot on center (i.e. 25 foot wattle uses 6 stacks)



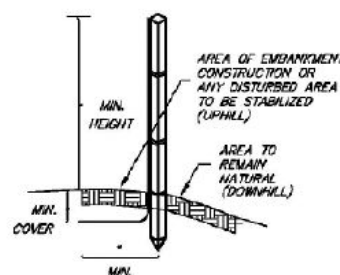
SEDIMENT, ORGANIC MATTER, AND NATIVE SEEDS ARE CAPTURED BEHIND THE WATTLE ROWS.



NOT TO SCALE



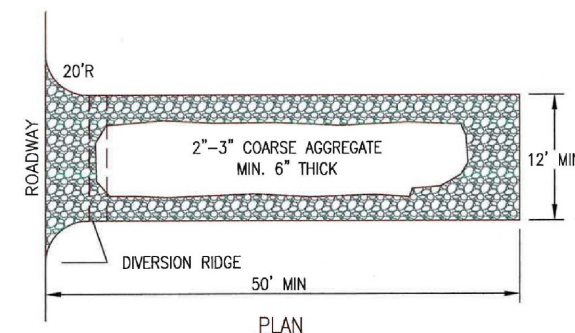
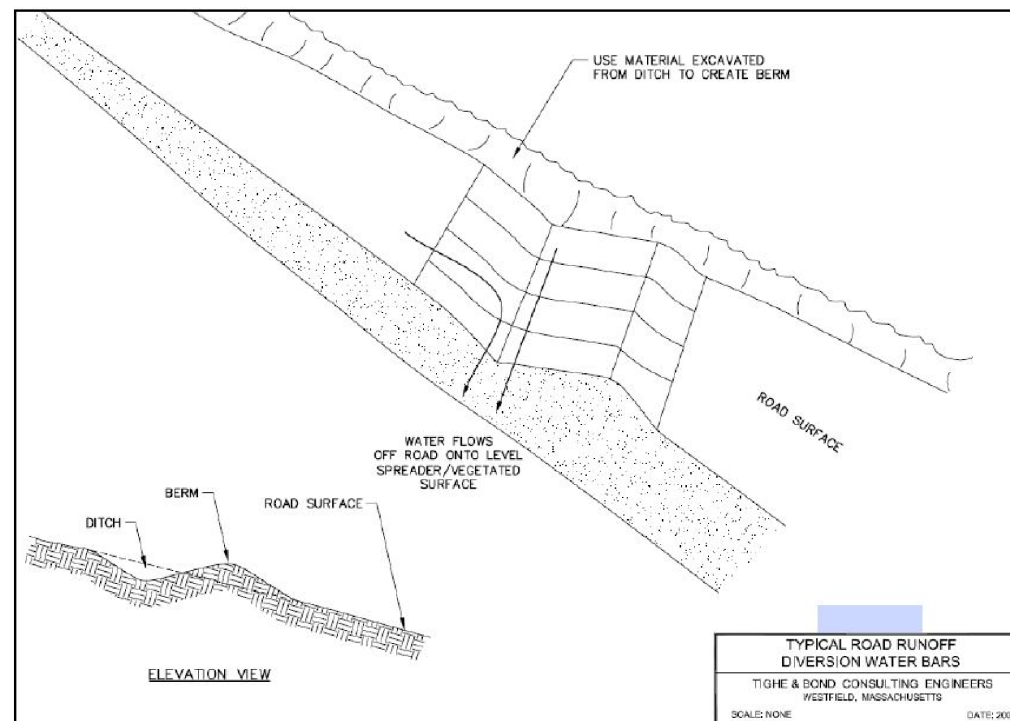
FRONT VIEW



SIDE VIEW

NOTES (SILT FENCE)

1. THE HEIGHT OF THE BARRIER SHALL NOT EXCEED 36 INCHES.
2. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPICED 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.



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

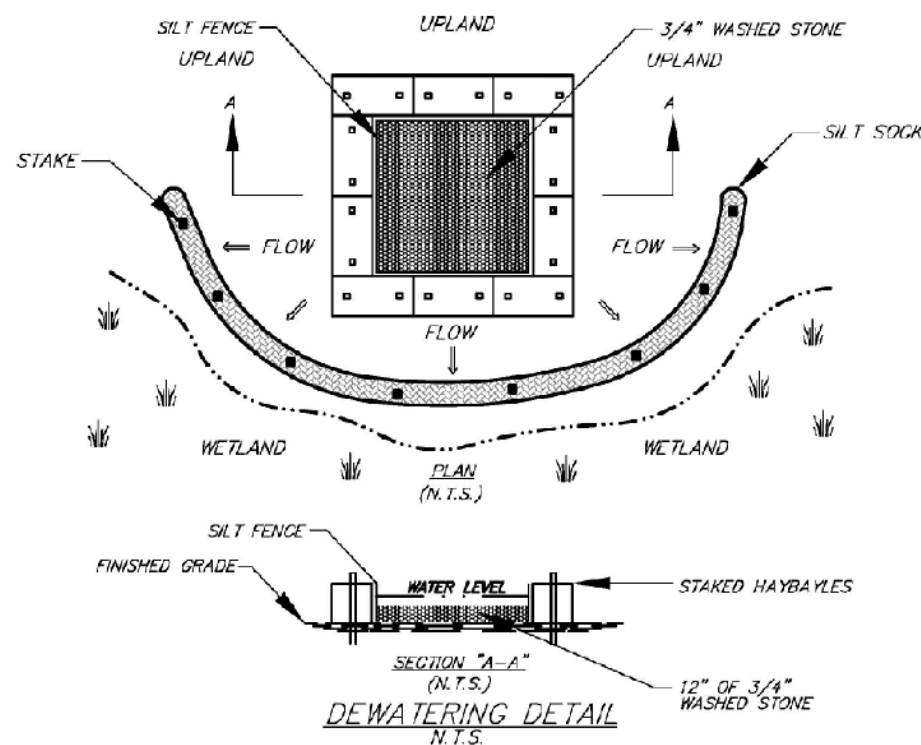


Figure 5

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CHESTER, DEERFIELD, AND STRAFFORD, NEW HAMPSHIRE

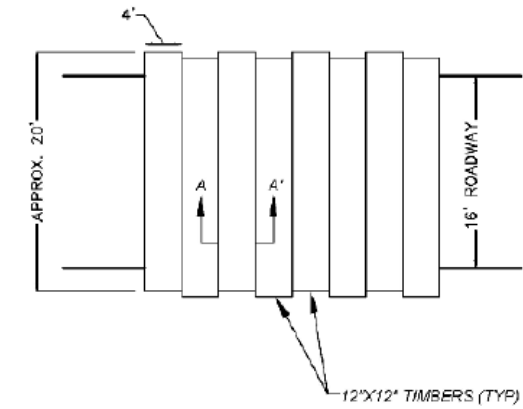
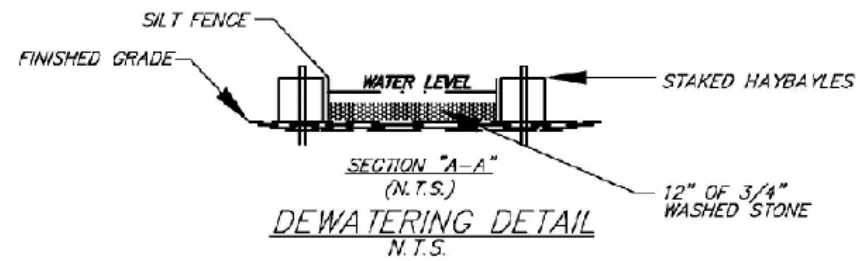
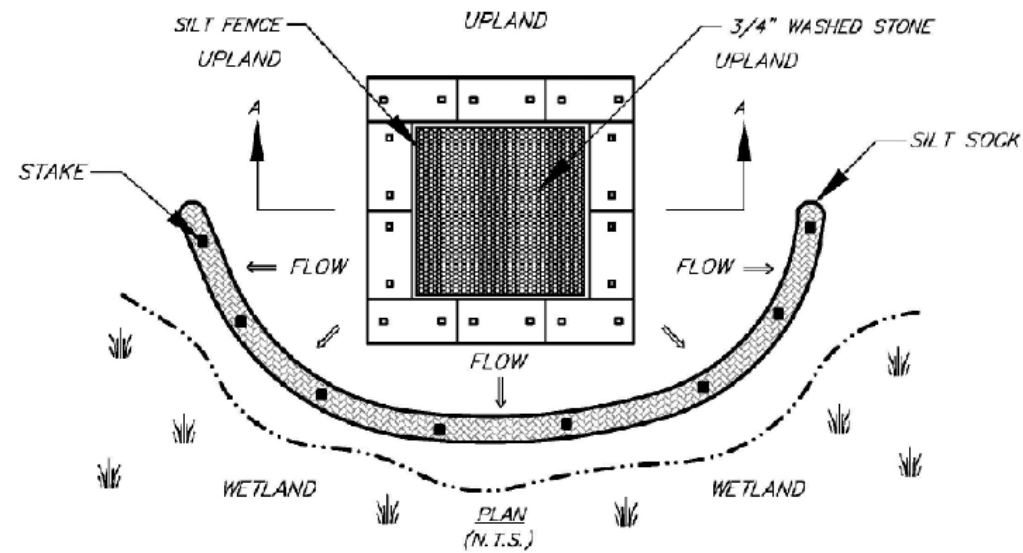
BMP DETAILS

PREPARED BY:
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Engineers and Scientists
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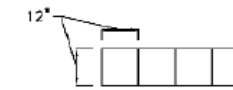
PREPARED FOR:
EVERSOURCE
ENERGY

PROJ MGR: LEW	REVIEWED BY: AJD	CHECKED BY: DMZ	SHEET 2
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	
DATE: 01/20/2020	PROJECT NO: 04.0190999.05	REVISION NO.	

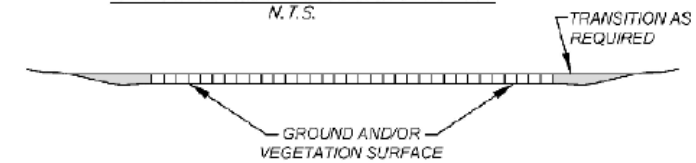
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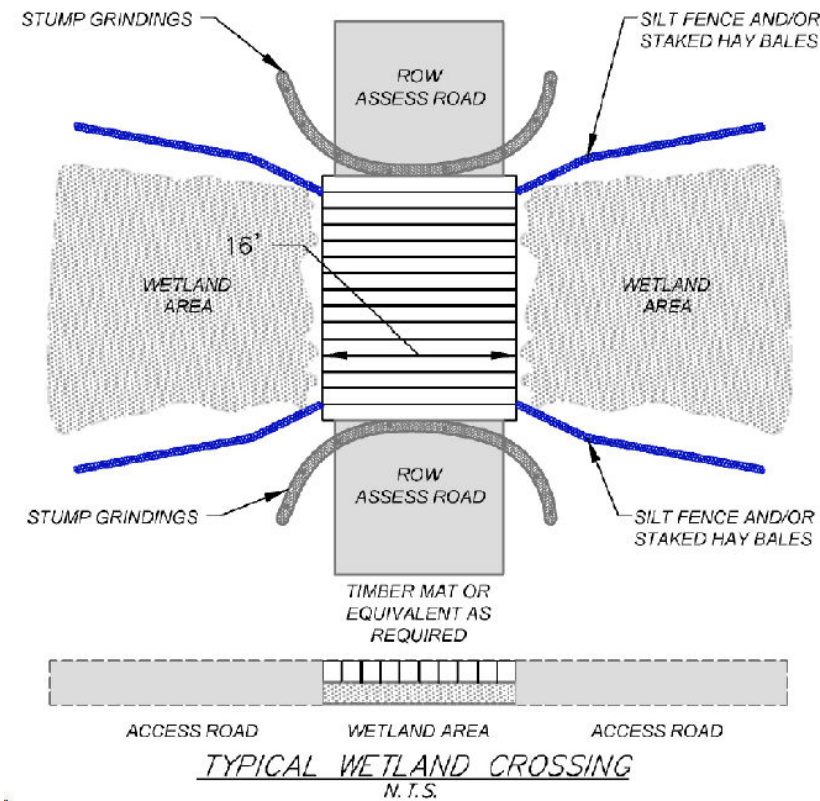
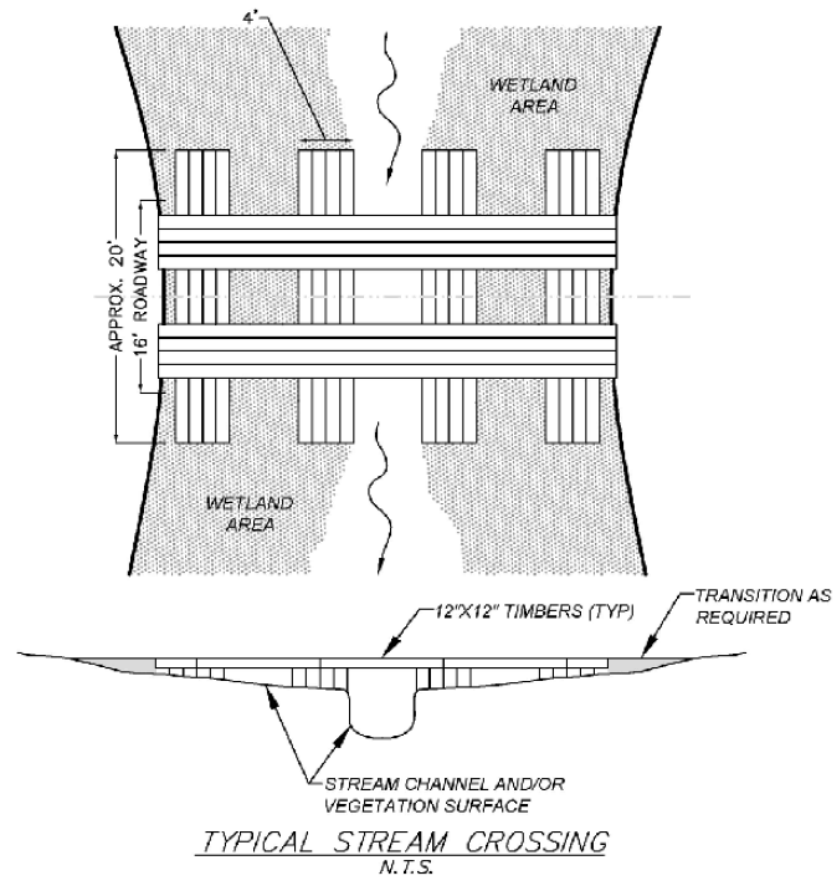
TYPICAL SWAMP MAT PLAN VIEW
N.T.S.



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



TYPICAL SWAMP MAT SECTION DETAIL
N.T.S.



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BMP DETAILS

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