

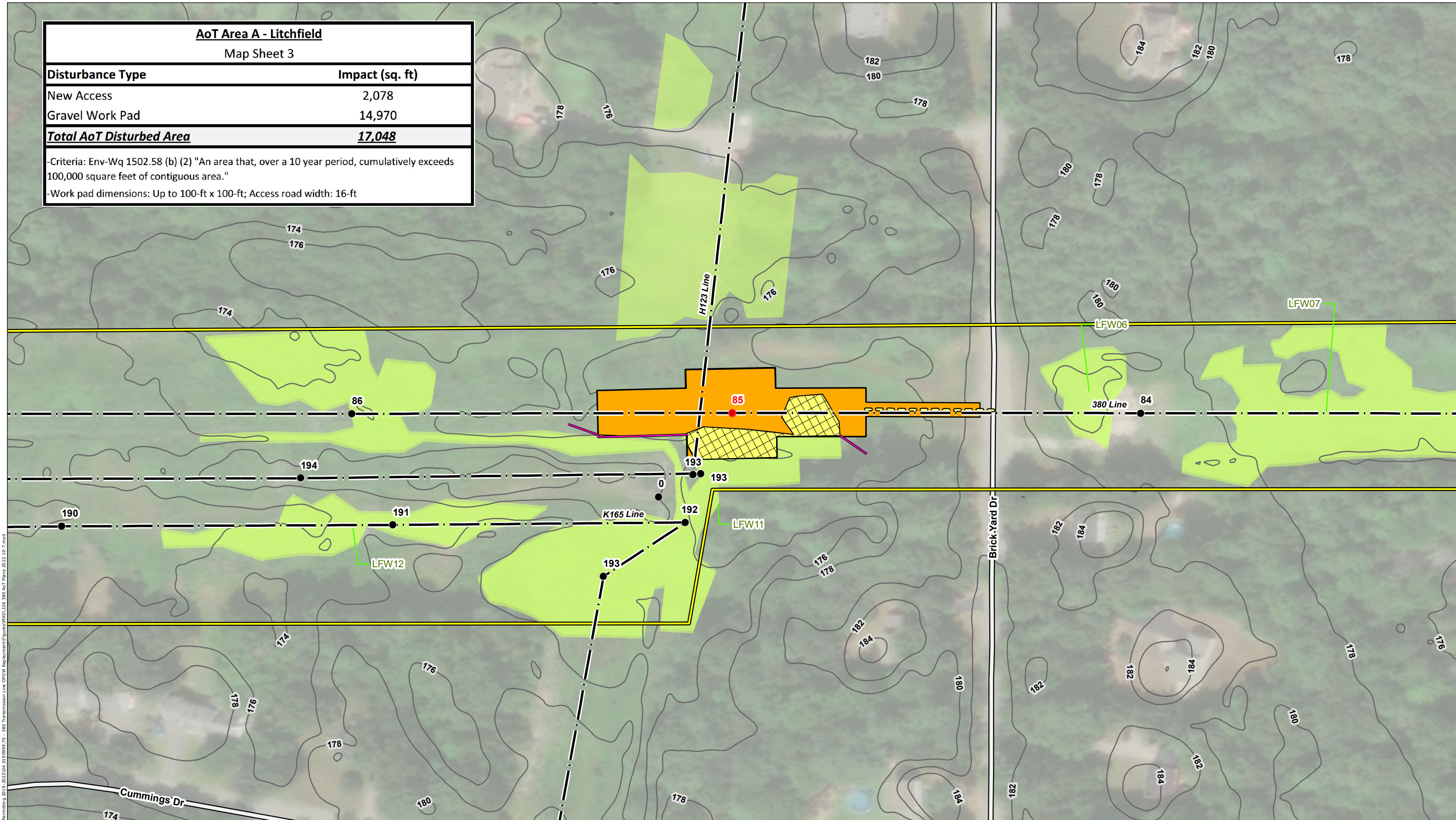
**AoT Area A - Litchfield**

Map Sheet 3

Disturbance Type	Impact (sq. ft)
New Access	2,078
Gravel Work Pad	14,970
<b>Total AoT Disturbed Area</b>	<b>17,048</b>

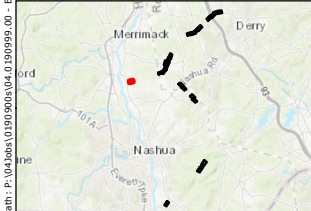
-Criteria: Env-Wq 1502.58 (b) (2) "An area that, over a 10 year period, cumulatively exceeds 100,000 square feet of contiguous area."

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



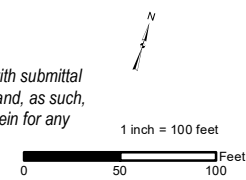
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		<b>EVERSOURCE ENERGY</b>	
		<b>326 and 380 Line Structure Replacement &amp; OPGW Project</b>	
		<b>Alteration of Terrain Permitting Plans</b>	
		Litchfield, NH	MAP SHEET
		Date: March, 2022	<b>1</b>
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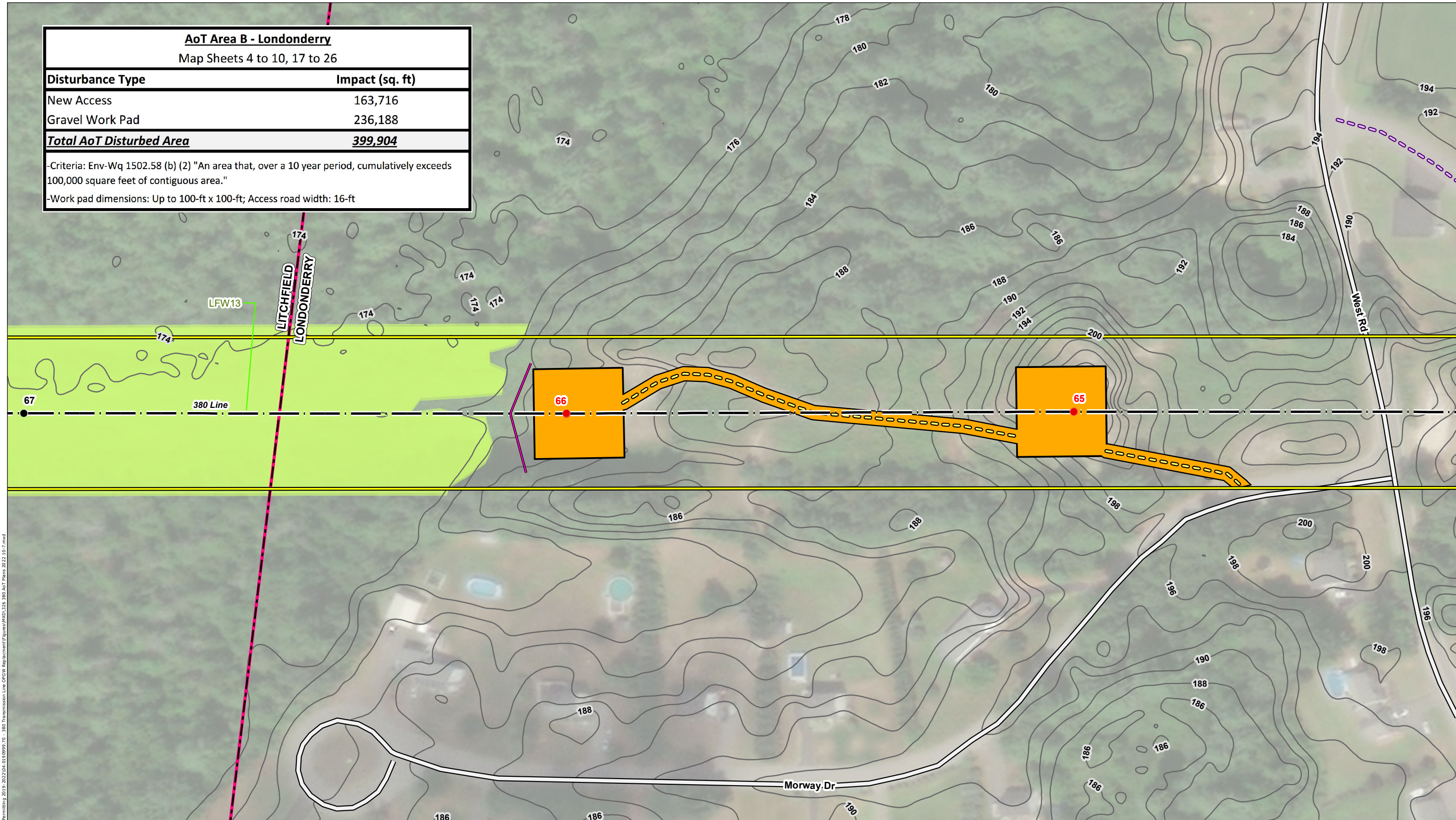
**AoT Area B - Londonderry**

Map Sheets 4 to 10, 17 to 26

Disturbance Type	Impact (sq. ft)
New Access	163,716
Gravel Work Pad	236,188
<b>Total AoT Disturbed Area</b>	<b>399,904</b>

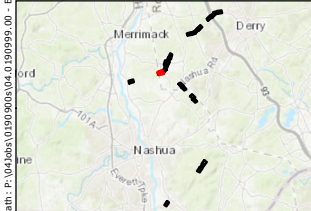
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-Work pad dimensions: Up to 100-ft x 100-ft; Access road width: 16-ft



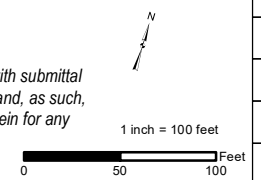
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**EVERSOURCE ENERGY**

**326 and 380 Line Structure Replacement & OPGW Project**  
Alteration of Terrain Permitting Plans

Londonderry, NH      MAP SHEET

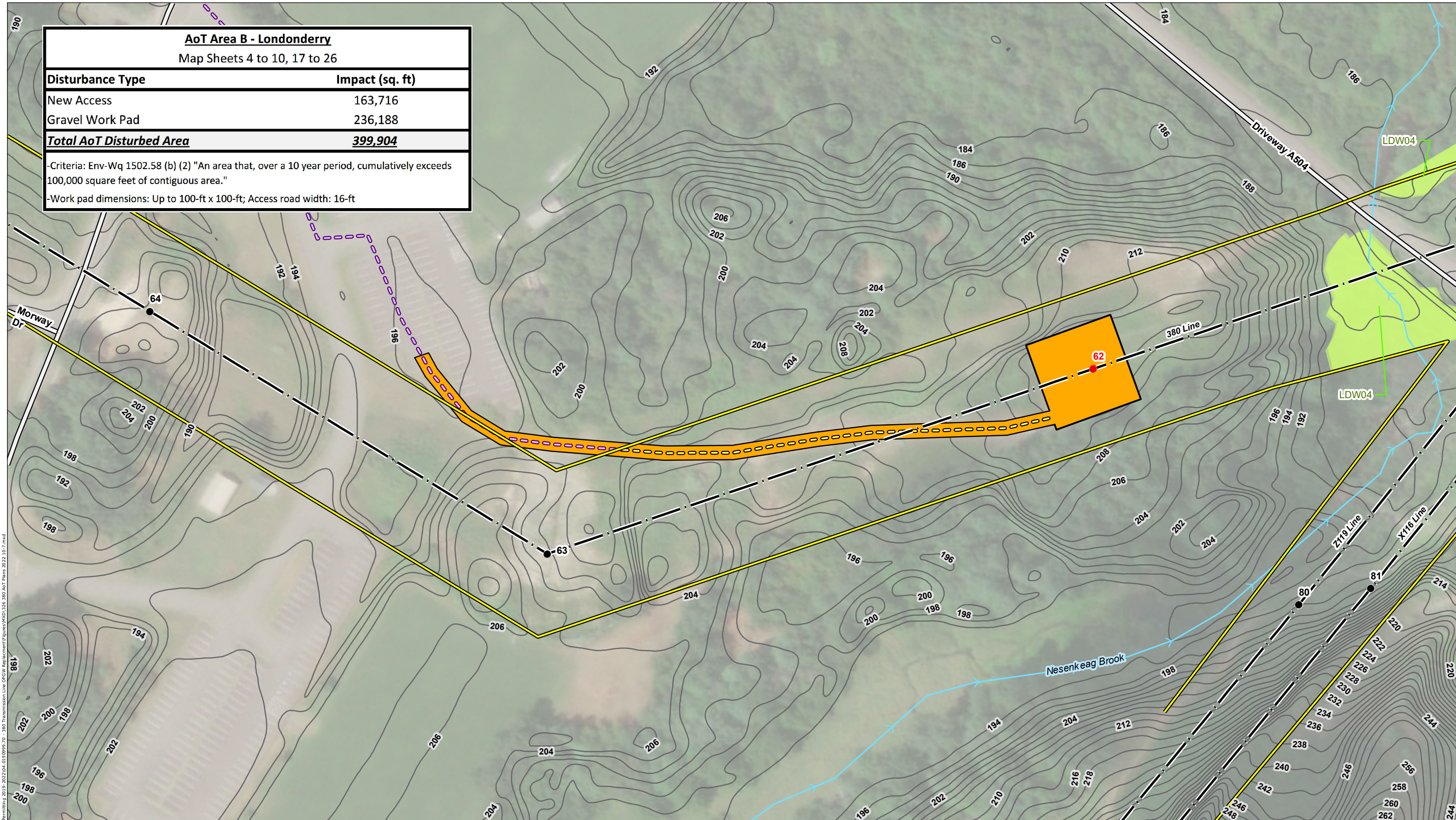
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**AoT Area B - Londonderry**  
Map Sheets 4 to 10, 17 to 26

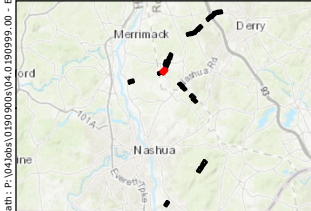
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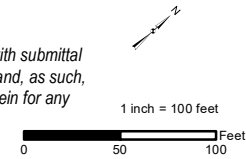
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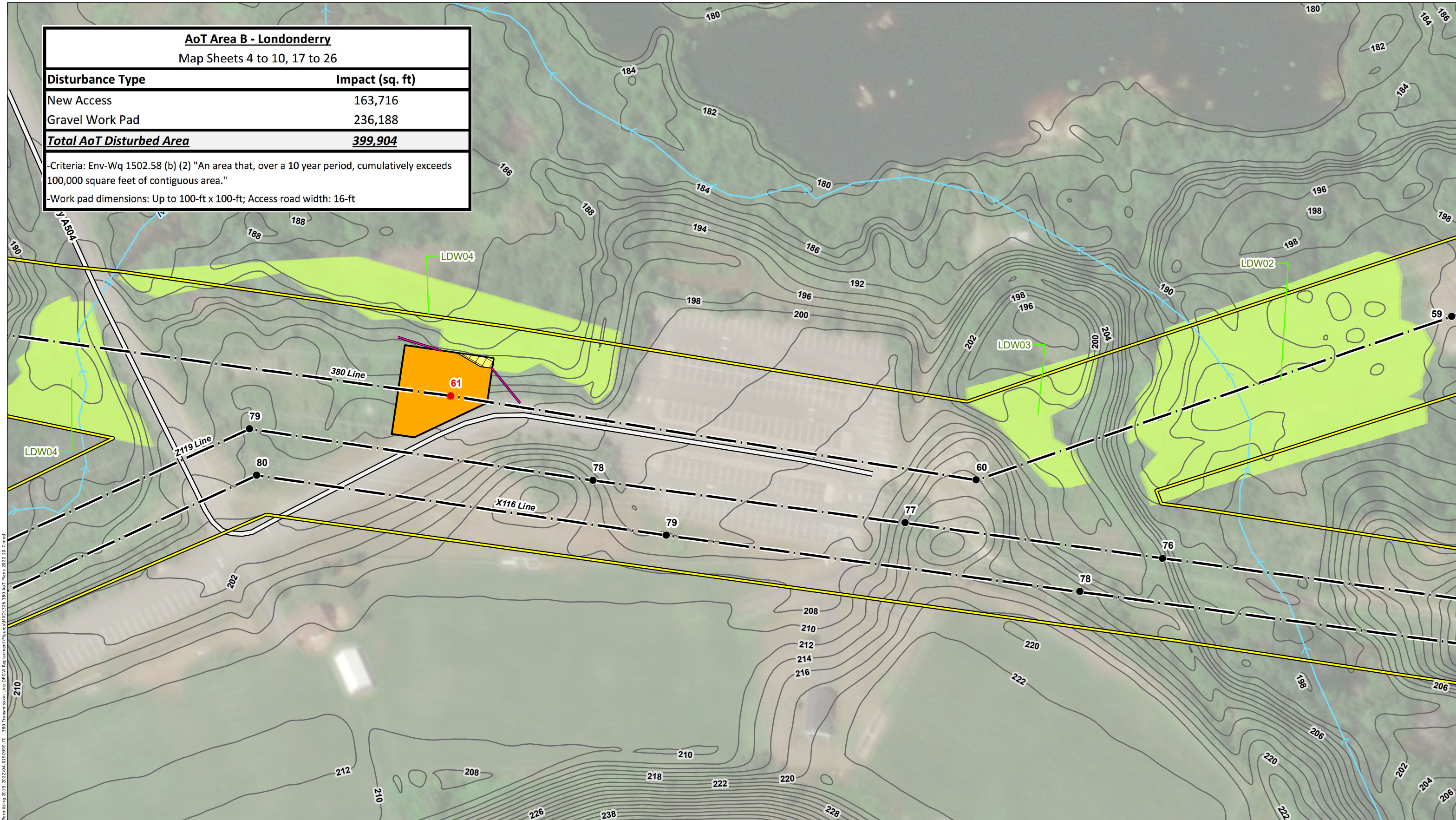
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		<b>326 and 380 Line Structure Replacement &amp; OPGW Project</b>	
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		Date: March, 2022	<b>3</b>
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**AoT Area B - Londonderry**  
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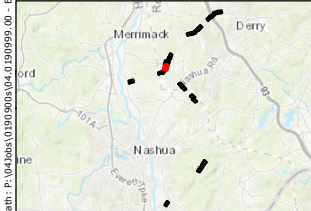
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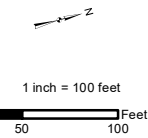
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								Date: March, 2022	
								<b>4</b>	
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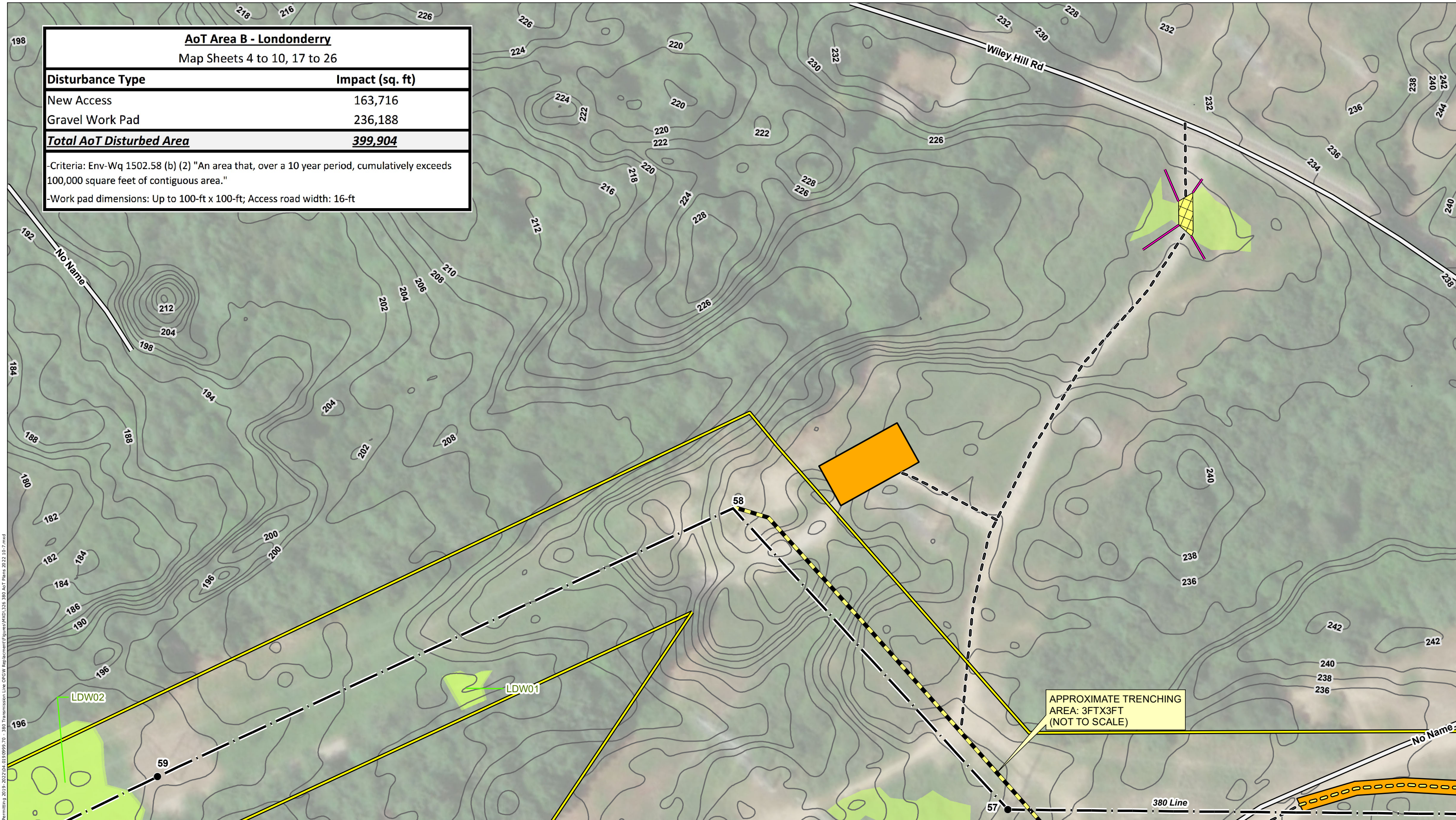


**AoT Area B - Londonderry**

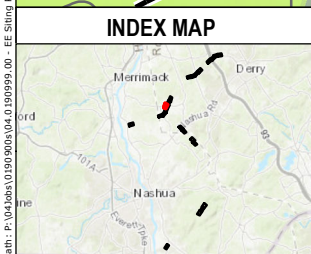
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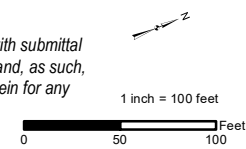


APPROXIMATE TRENCHING AREA: 3FTX3FT (NOT TO SCALE)



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**EVERSOURCE ENERGY**

**326 and 380 Line Structure Replacement & OPGW Project**

**Alteration of Terrain Permitting Plans**

Londonderry, NH

Date: March, 2022

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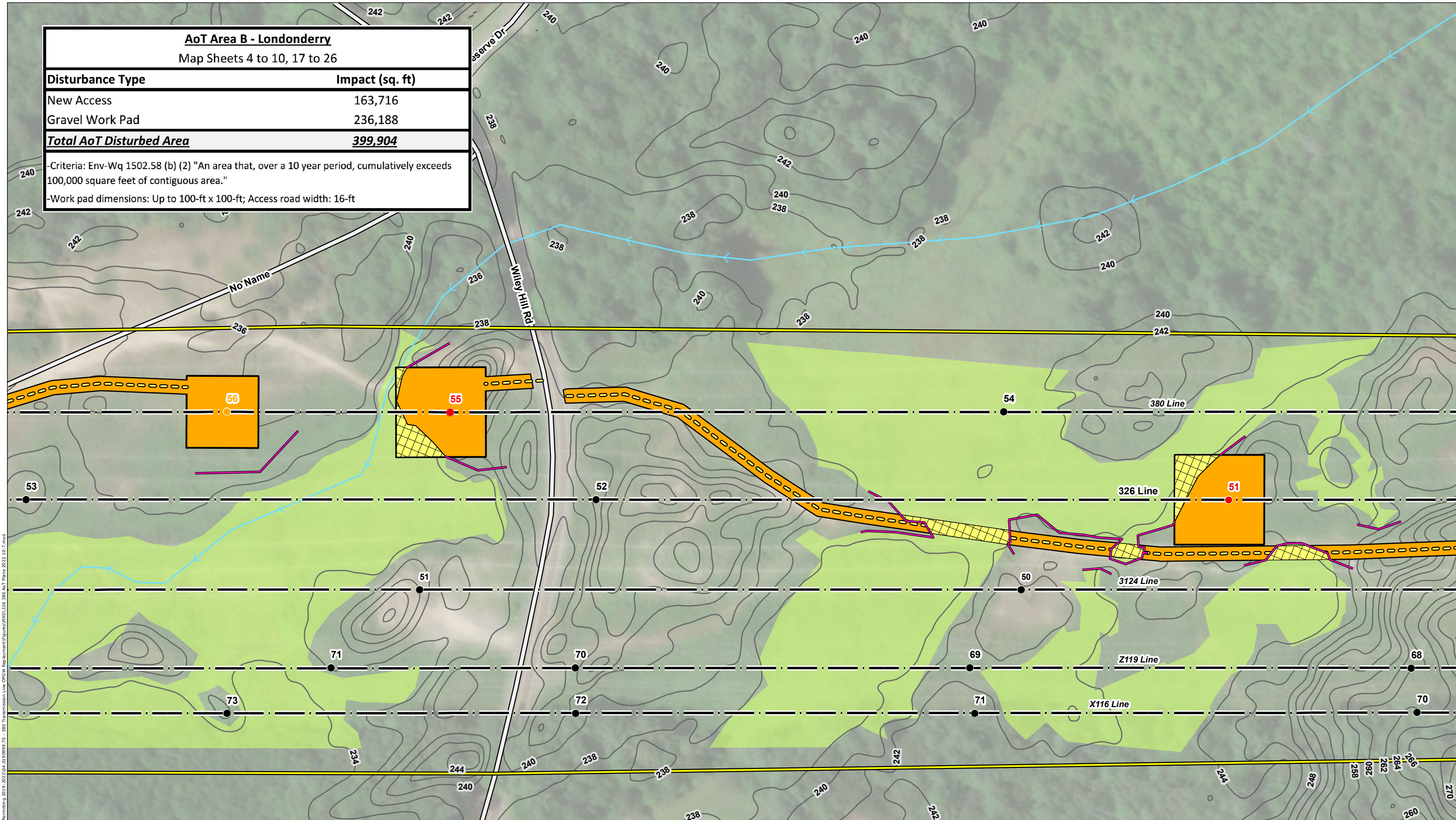
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**AoT Area B - Londonderry**  
Map Sheets 4 to 10, 17 to 26

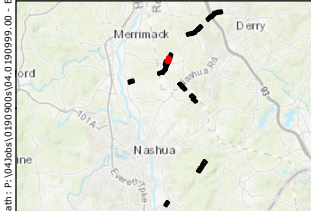
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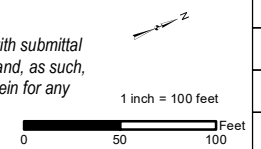
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**EVERSOURCE ENERGY**

**326 and 380 Line Structure Replacement & OPGW Project**  
**Alteration of Terrain Permitting Plans**

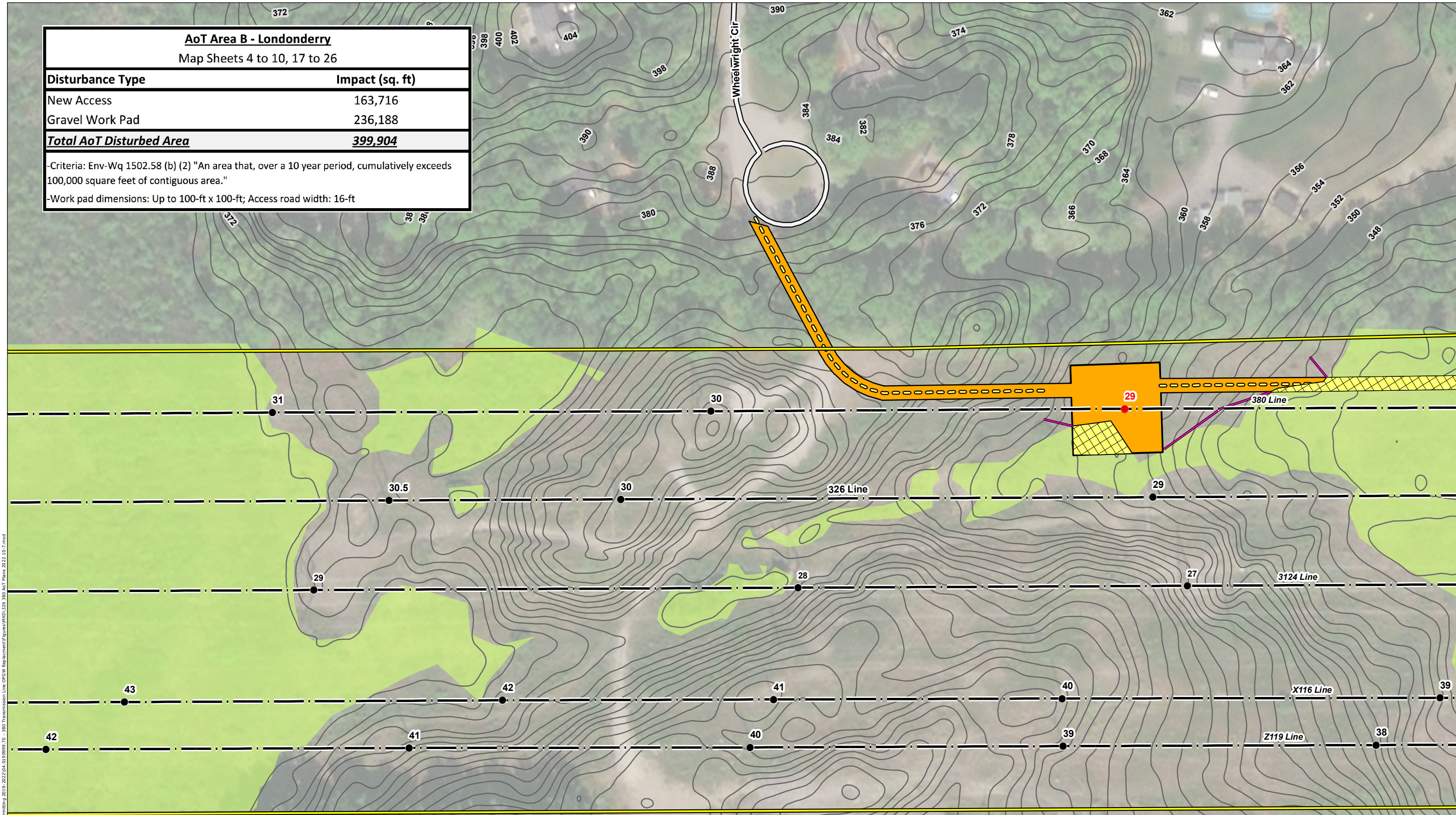
Londonderry, NH      MAP SHEET

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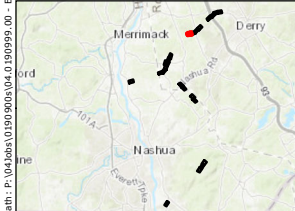


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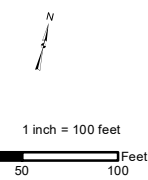
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**EVERSOURCE ENERGY**

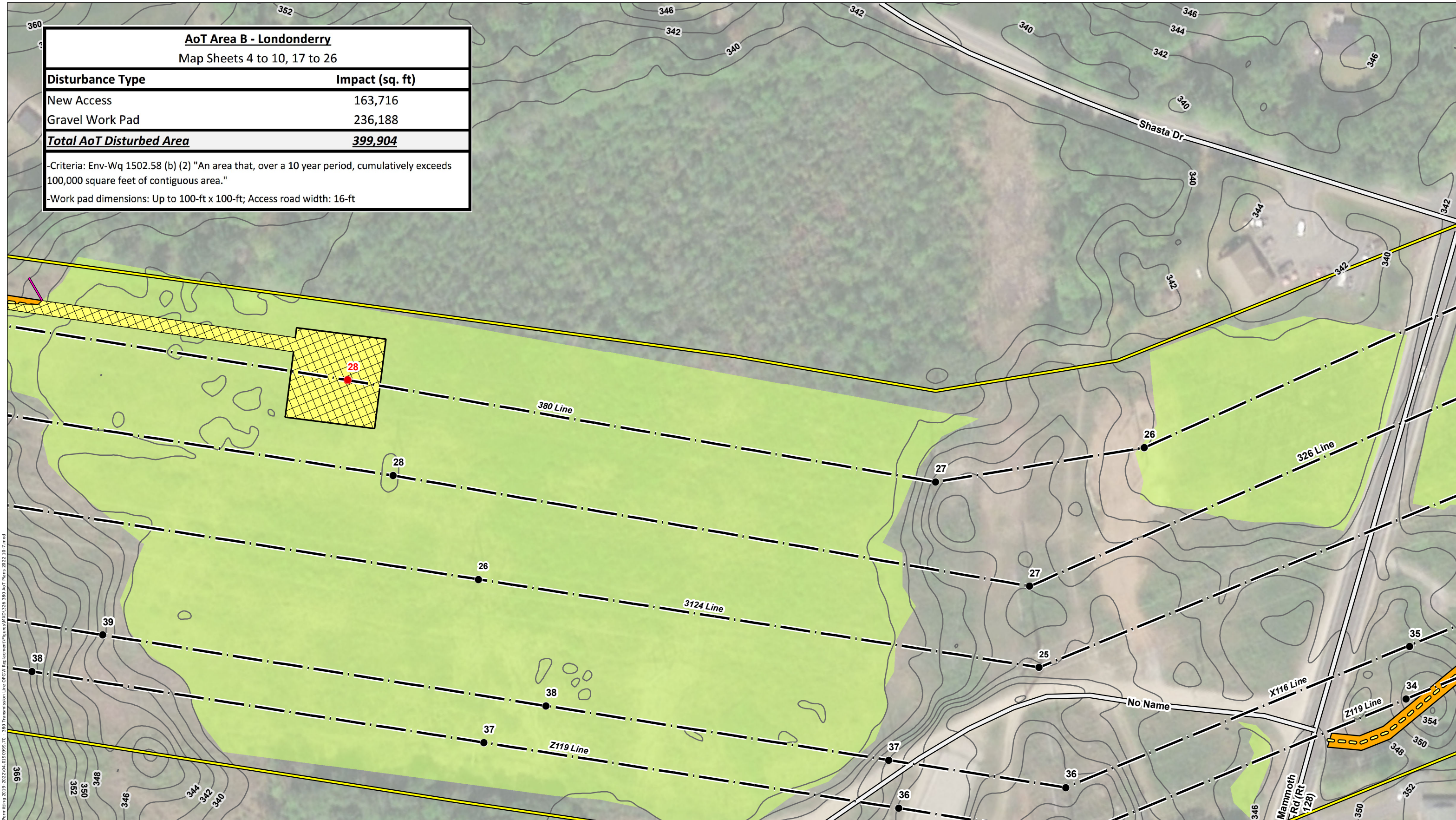
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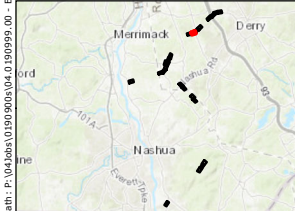


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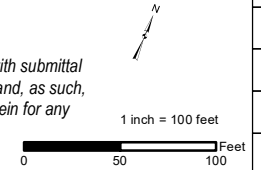
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**326 and 380 Line Structure Replacement & OPGW Project**  
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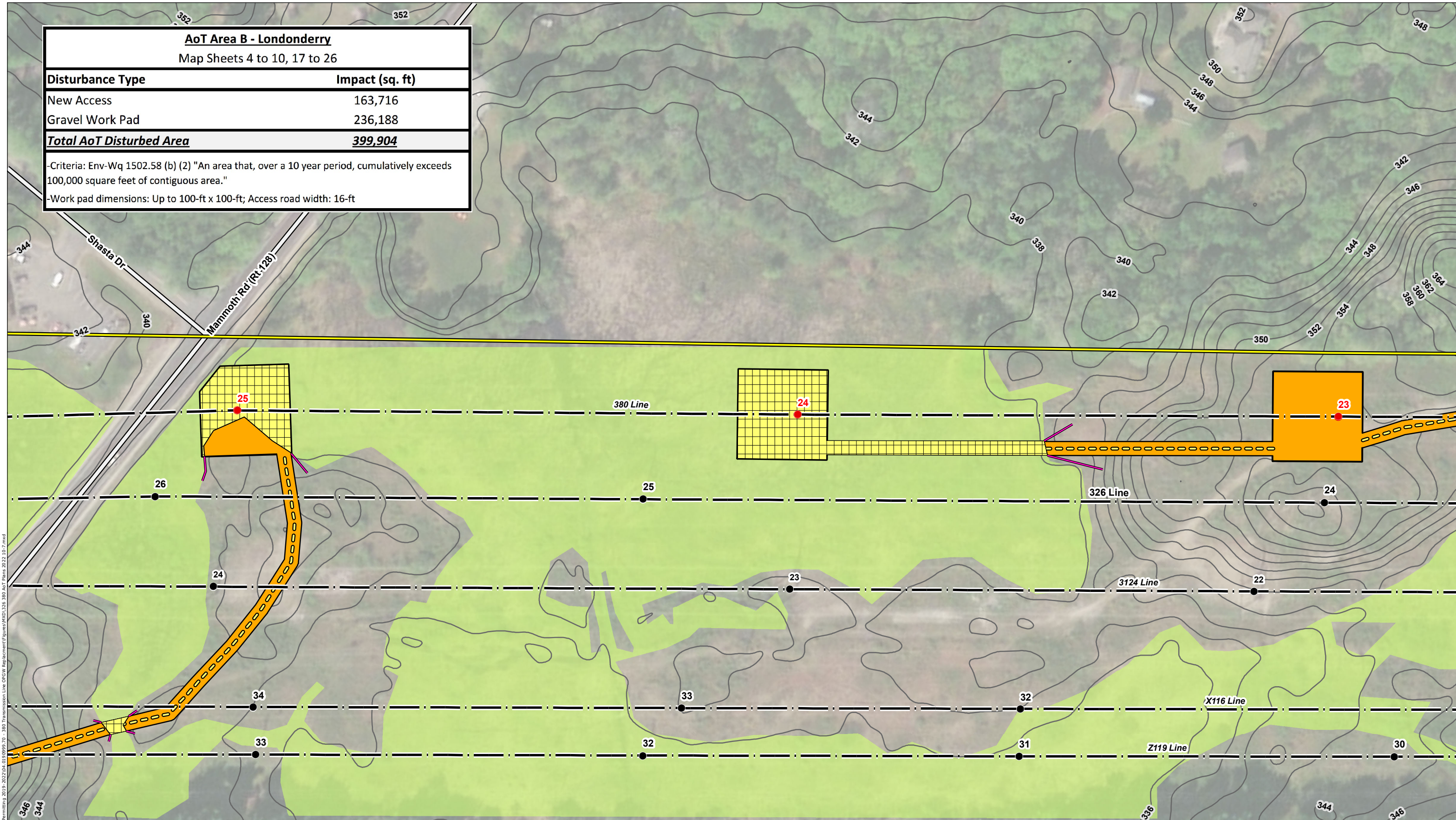


**AoT Area B - Londonderry**

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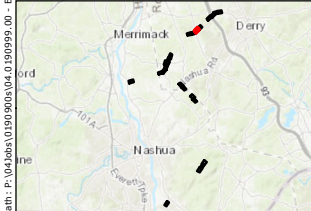
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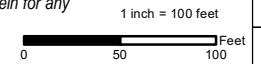
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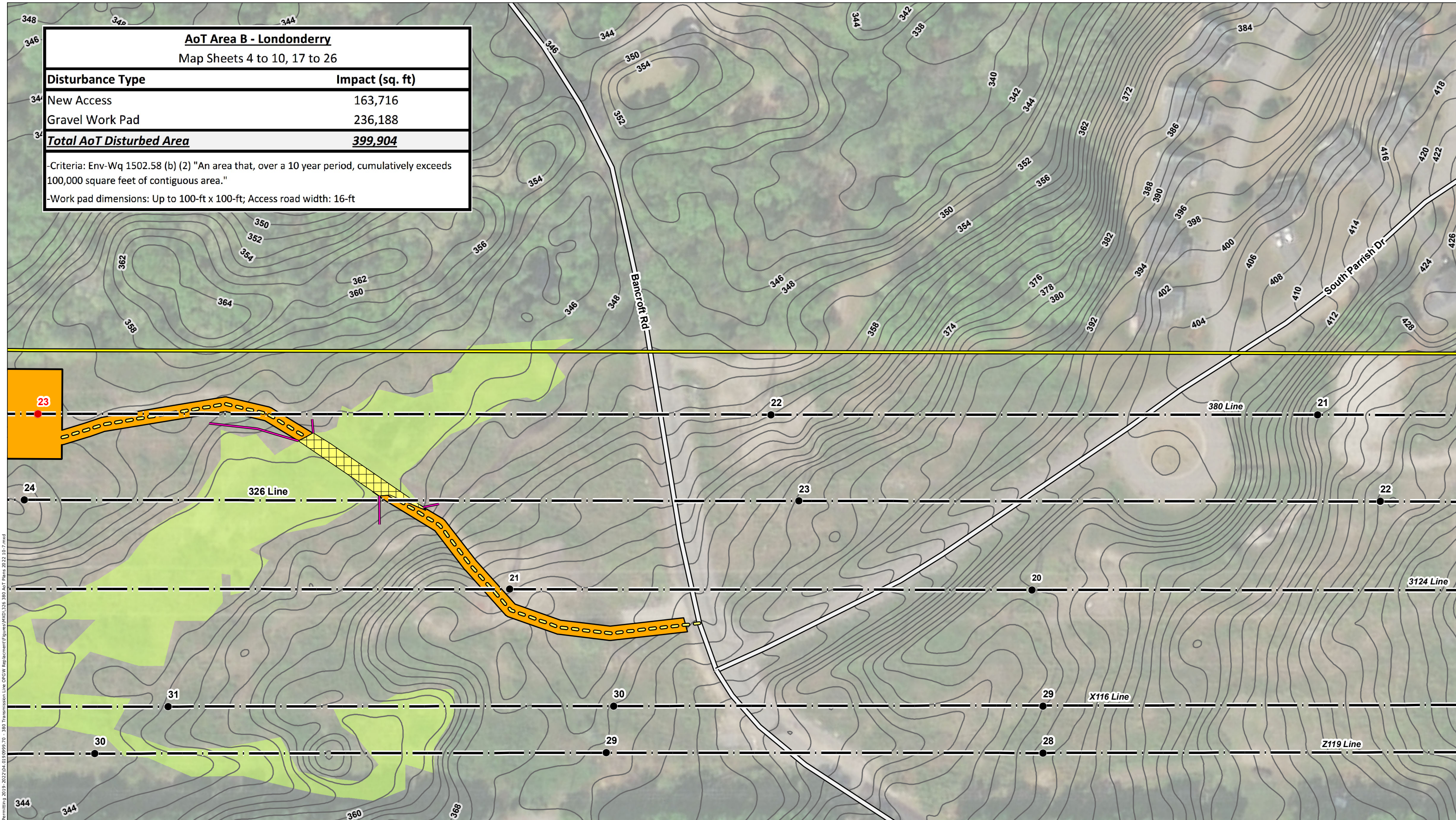
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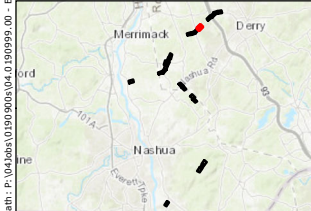


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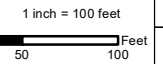
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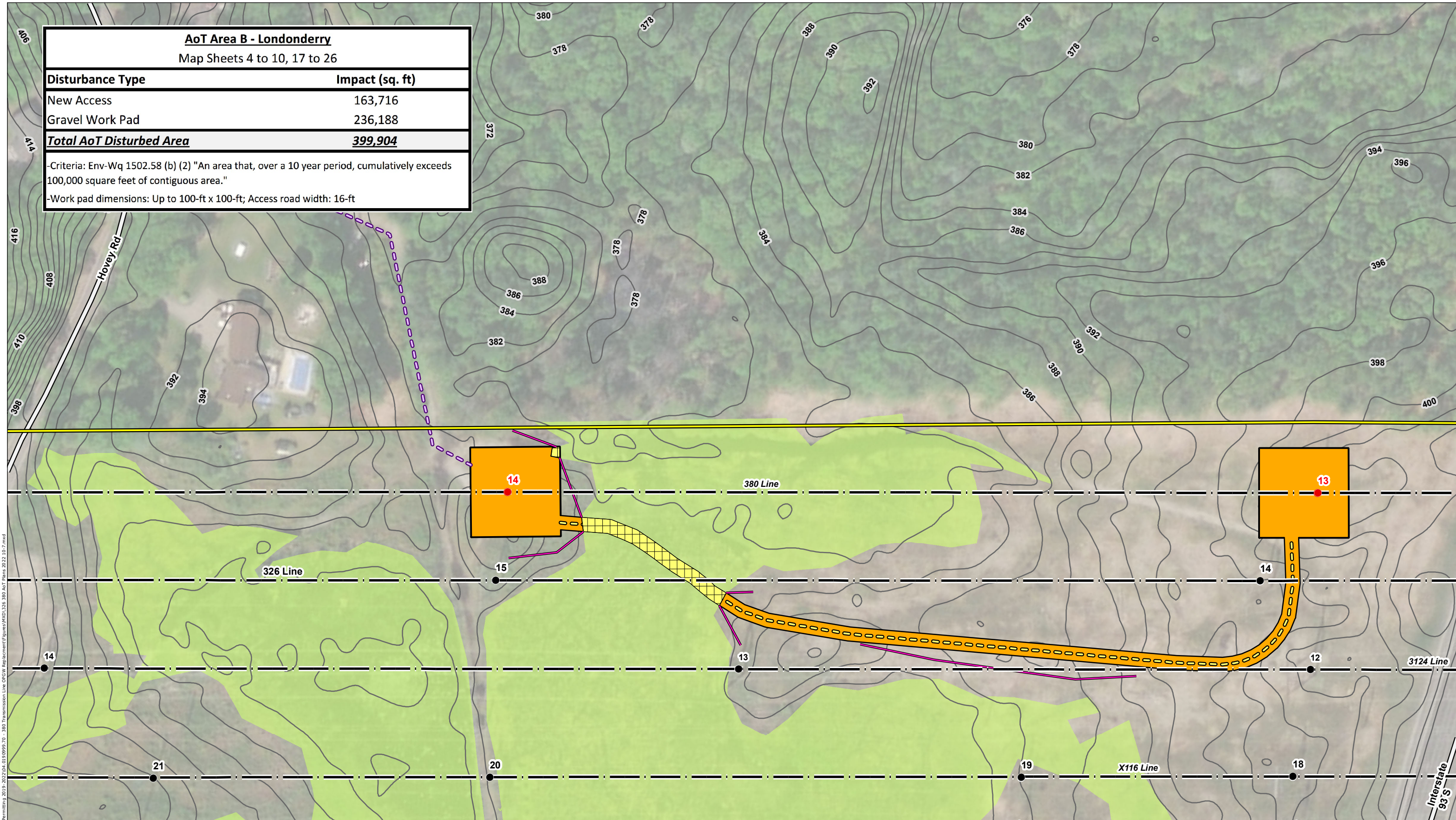
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**AoT Area B - Londonderry**  
Map Sheets 4 to 10, 17 to 26

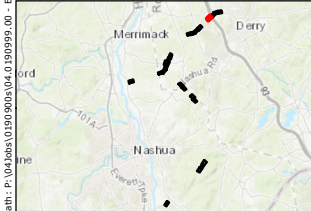
Disturbance Type	Impact (sq. ft)
New Access	163,716
Gravel Work Pad	236,188
<b>Total AoT Disturbed Area</b>	<b>399,904</b>

-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



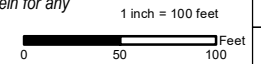
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NO.	DATE	REVISIONS

**EVERSOURCE ENERGY**

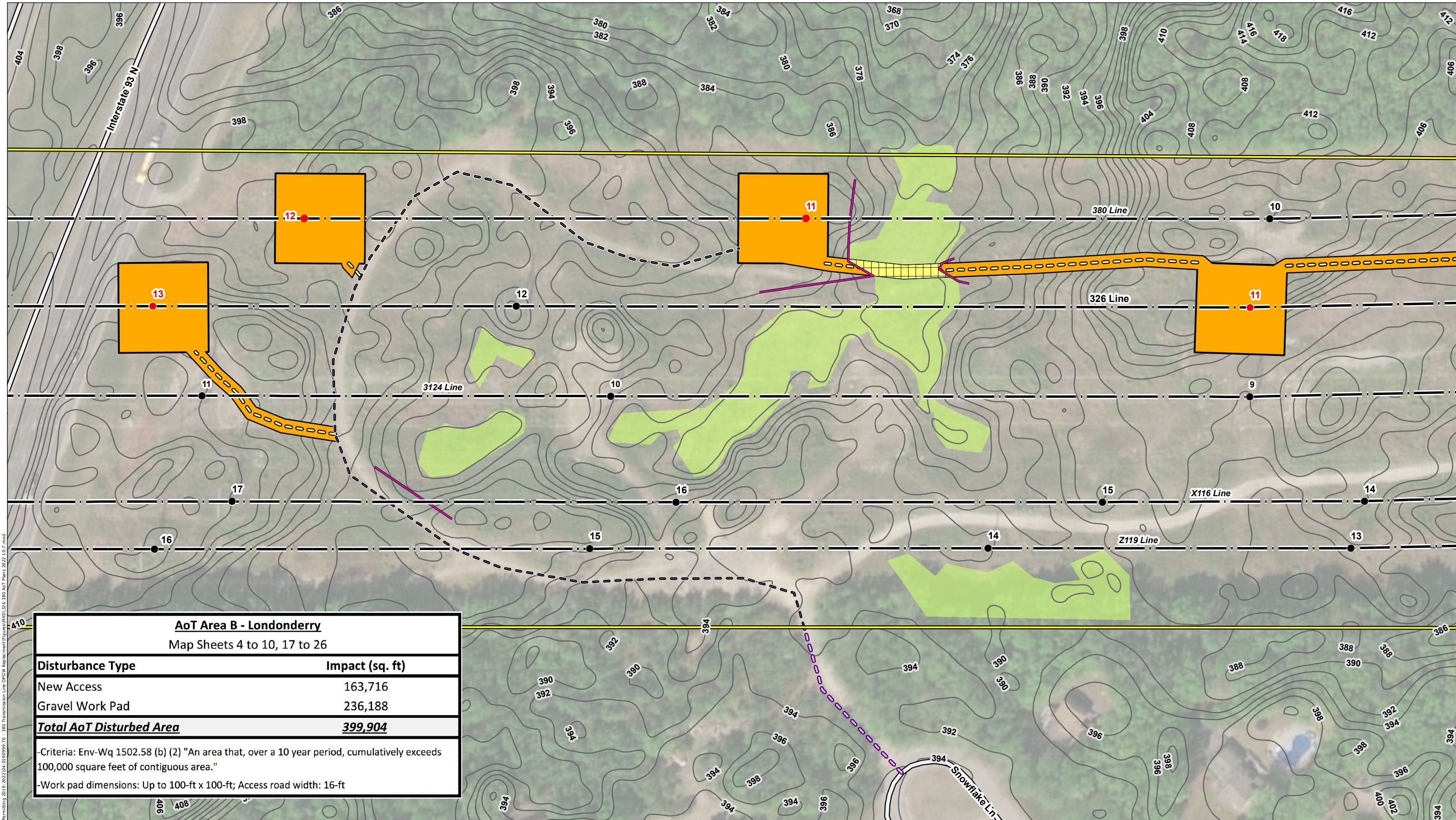
**326 and 380 Line Structure Replacement & OPGW Project**  
**Alteration of Terrain Permitting Plans**

Londonderry, NH      MAP SHEET

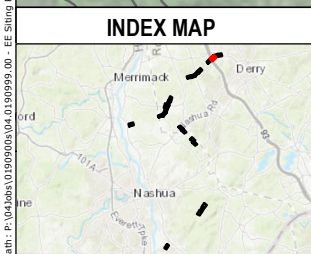
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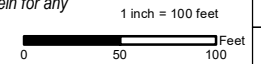


AoT Area B - Londonderry	
Map Sheets 4 to 10, 17 to 26	
<b>Disturbance Type</b>	<b>Impact (sq. ft)</b>
New Access	163,716
Gravel Work Pad	236,188
<b>Total AoT Disturbed Area</b>	<b>399,904</b>
-Criteria: Env-Wq 1502.58 (b) (2) "An area that, over a 10 year period, cumulatively exceeds 100,000 square feet of contiguous area."	
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**EVERSOURCE ENERGY**

**326 and 380 Line Structure Replacement & OPGW Project**  
Alteration of Terrain Permitting Plans

Londonderry, NH      MAP SHEET

Date: March, 2022

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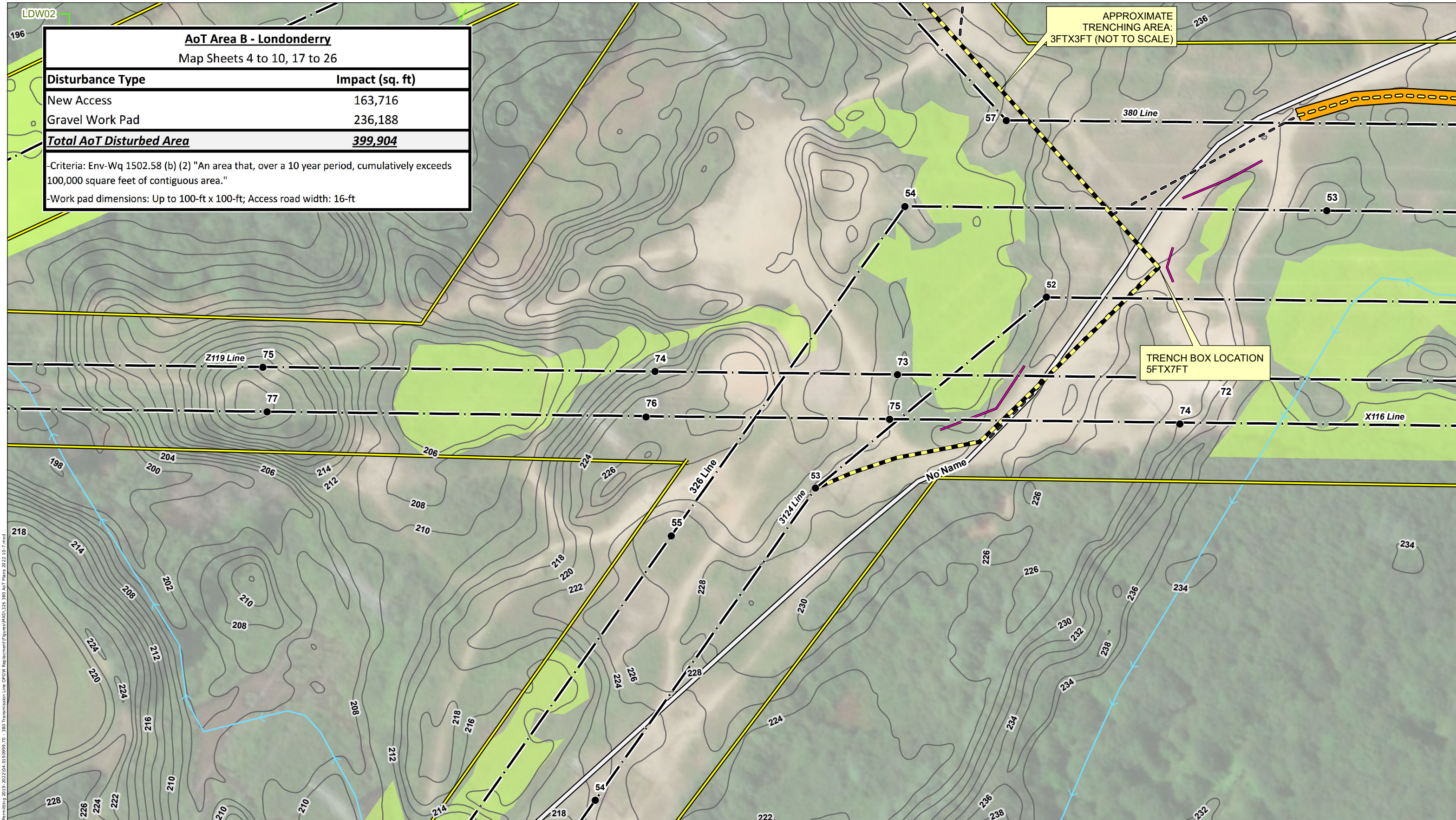
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AoT Area B - Londonderry	
Map Sheets 4 to 10, 17 to 26	
Disturbance Type	Impact (sq. ft)
New Access	163,716
Gravel Work Pad	236,188
<b>Total AoT Disturbed Area</b>	<b>399,904</b>

-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

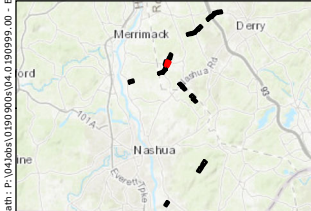
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TRENCH BOX LOCATION 5FTX7FT



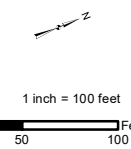
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**EVERSOURCE ENERGY**

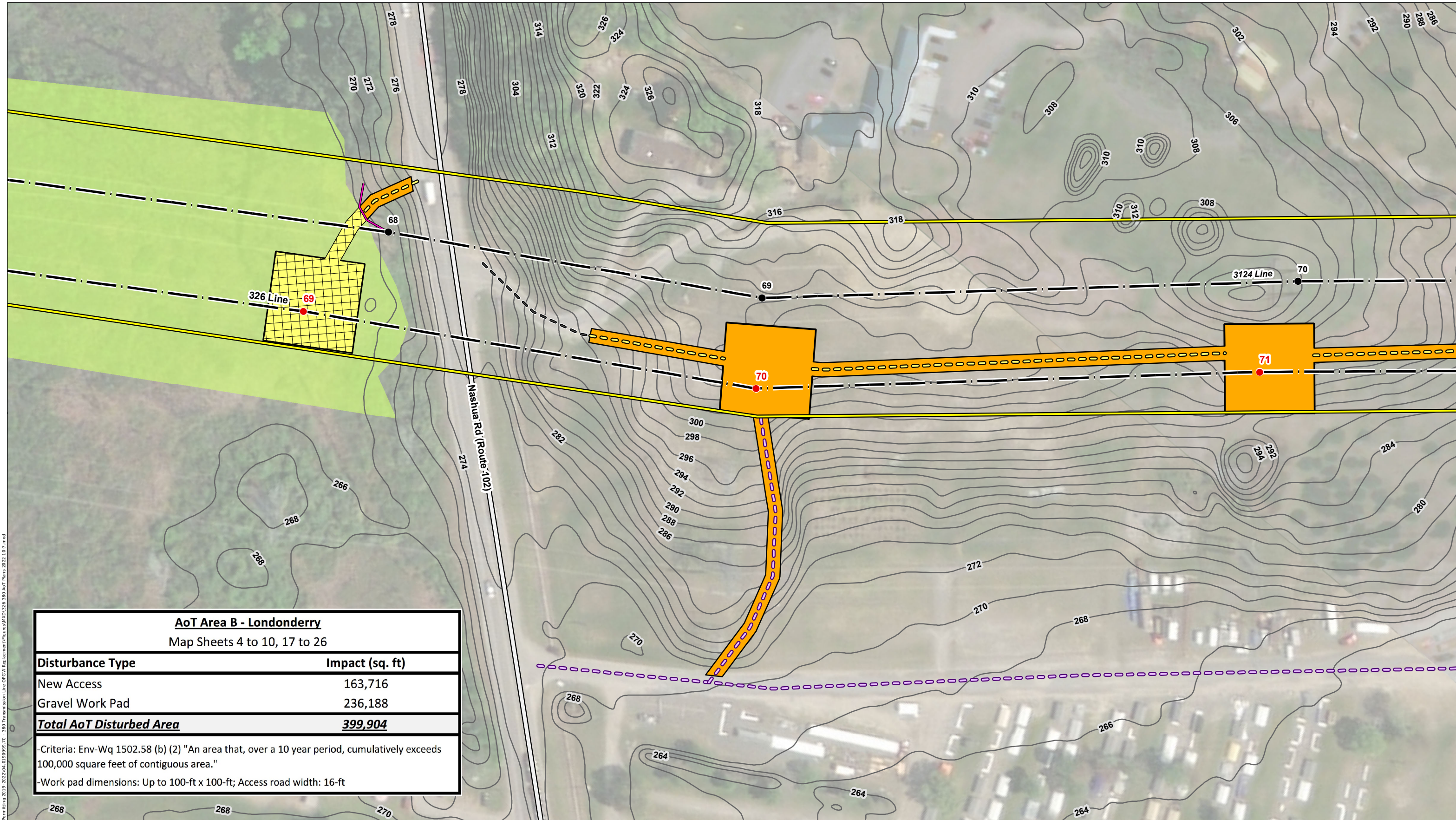
**326 and 380 Line Structure Replacement & OPGW Project**  
**Alteration of Terrain Permitting Plans**

Londonderry, NH      MAP SHEET

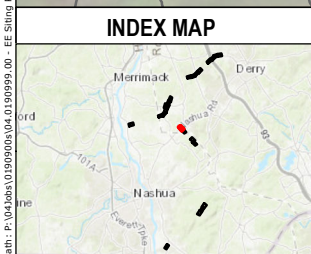
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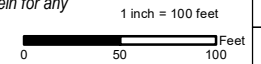
AoT Area B - Londonderry	
Map Sheets 4 to 10, 17 to 26	
Disturbance Type	Impact (sq. ft)
New Access	163,716
Gravel Work Pad	236,188
<b>Total AoT Disturbed Area</b>	<b>399,904</b>
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-Work pad dimensions: Up to 100-ft x 100-ft; Access road width: 16-ft	



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**326 and 380 Line Structure Replacement & OPGW Project**  
**Alteration of Terrain Permitting Plans**

Londonderry, NH      MAP SHEET

Date: March, 2022

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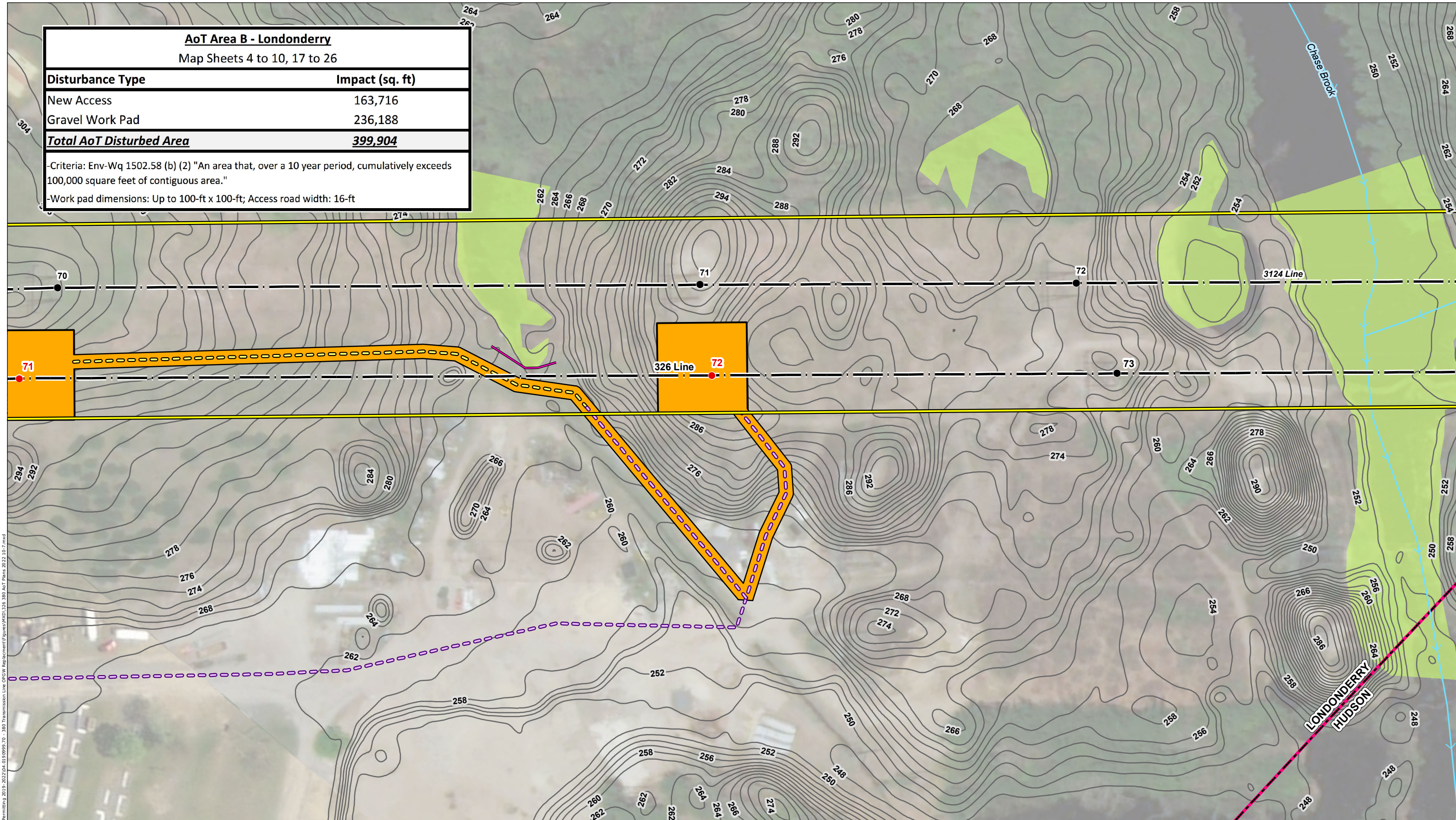
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**AoT Area B - Londonderry**  
Map Sheets 4 to 10, 17 to 26

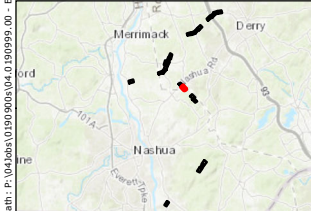
Disturbance Type	Impact (sq. ft)
New Access	163,716
Gravel Work Pad	236,188
<b>Total AoT Disturbed Area</b>	<b>399,904</b>

-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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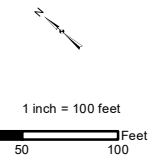
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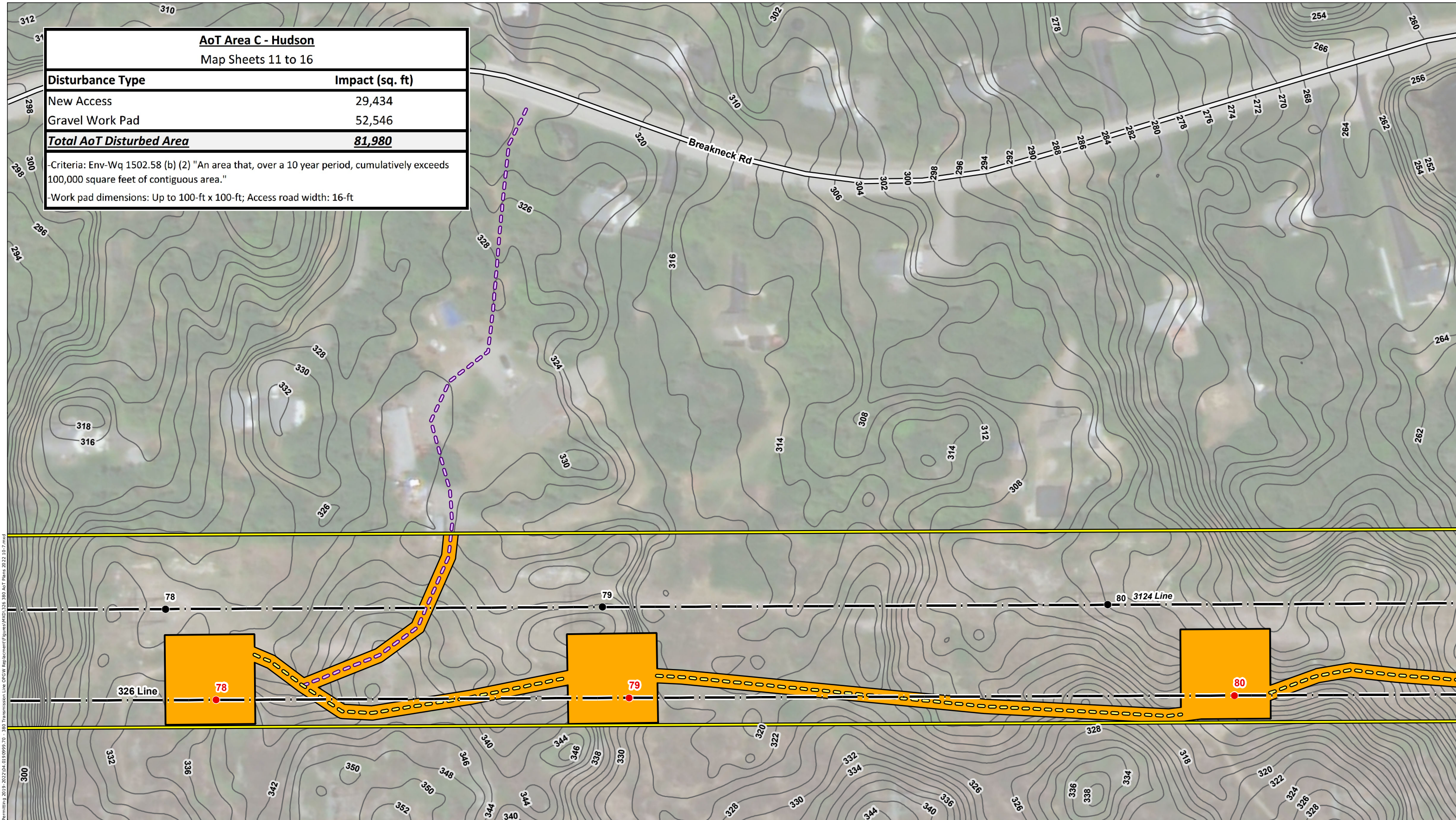
**EVERSOURCE ENERGY**

**326 and 380 Line Structure Replacement & OPGW Project**  
**Alteration of Terrain Permitting Plans**

Londonderry, NH	MAP SHEET
Date: March, 2022	<b>15</b>

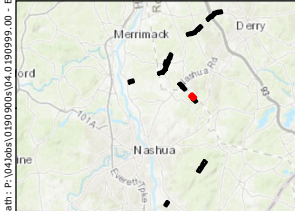


AoT Area C - Hudson	
Map Sheets 11 to 16	
Disturbance Type	Impact (sq. ft)
New Access	29,434
Gravel Work Pad	52,546
<b>Total AoT Disturbed Area</b>	<b>81,980</b>
-Criteria: Env-Wq 1502.58 (b) (2) "An area that, over a 10 year period, cumulatively exceeds 100,000 square feet of contiguous area."	
-Work pad dimensions: Up to 100-ft x 100-ft; Access road width: 16-ft	



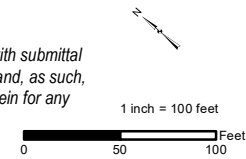
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**EVERSOURCE ENERGY**

**326 and 380 Line Structure Replacement & OPGW Project**  
Alteration of Terrain Permitting Plans

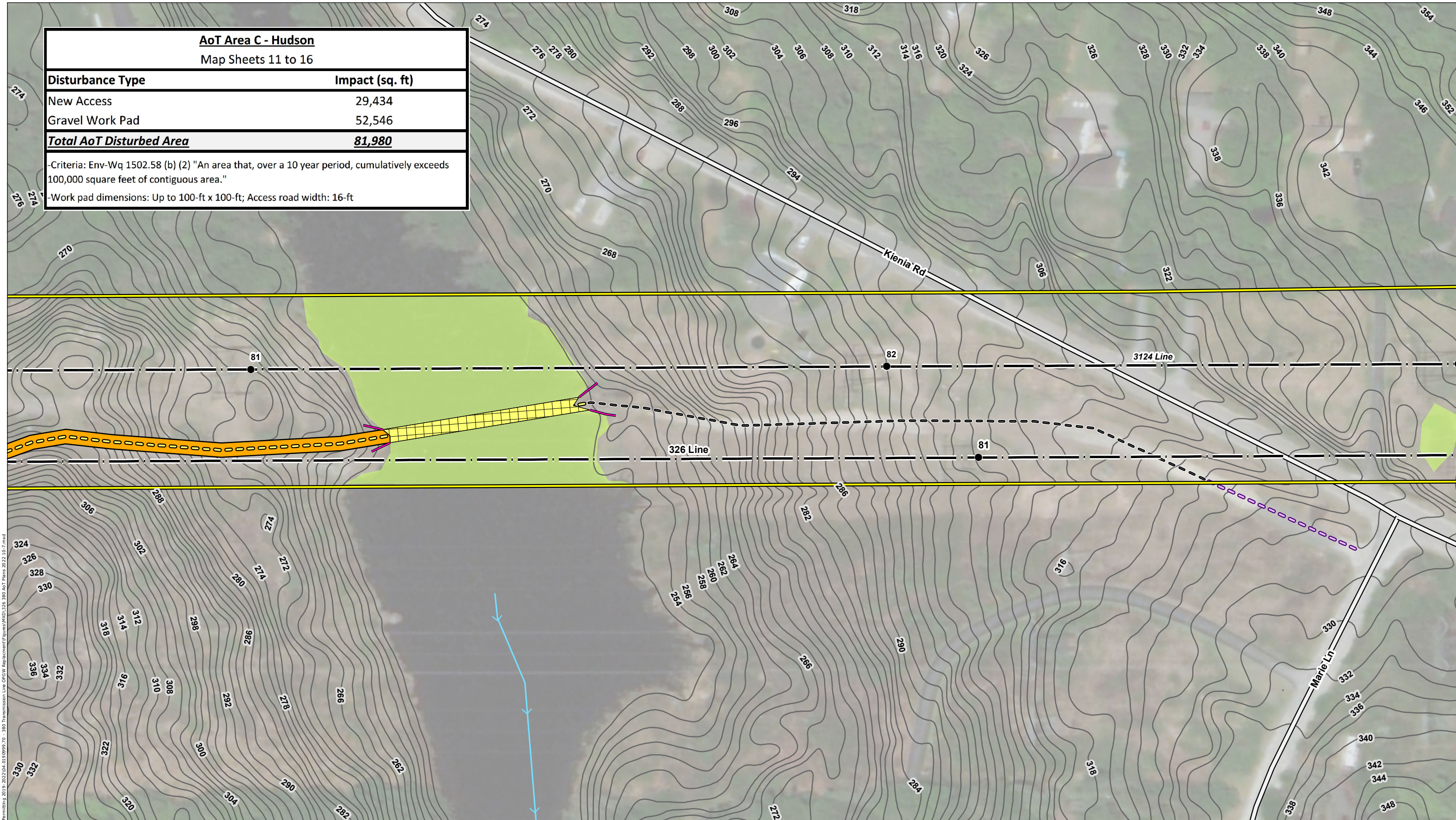
Hudson, NH      MAP SHEET

Date: March, 2022

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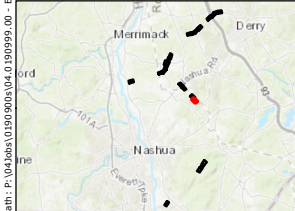


AoT Area C - Hudson	
Map Sheets 11 to 16	
Disturbance Type	Impact (sq. ft)
New Access	29,434
Gravel Work Pad	52,546
<b>Total AoT Disturbed Area</b>	<b>81,980</b>
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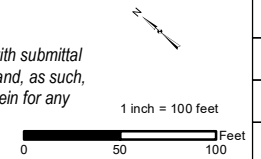
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NO.	DATE	REVISIONS

**EVERSOURCE ENERGY**

**326 and 380 Line Structure Replacement & OPGW Project**  
Alteration of Terrain Permitting Plans

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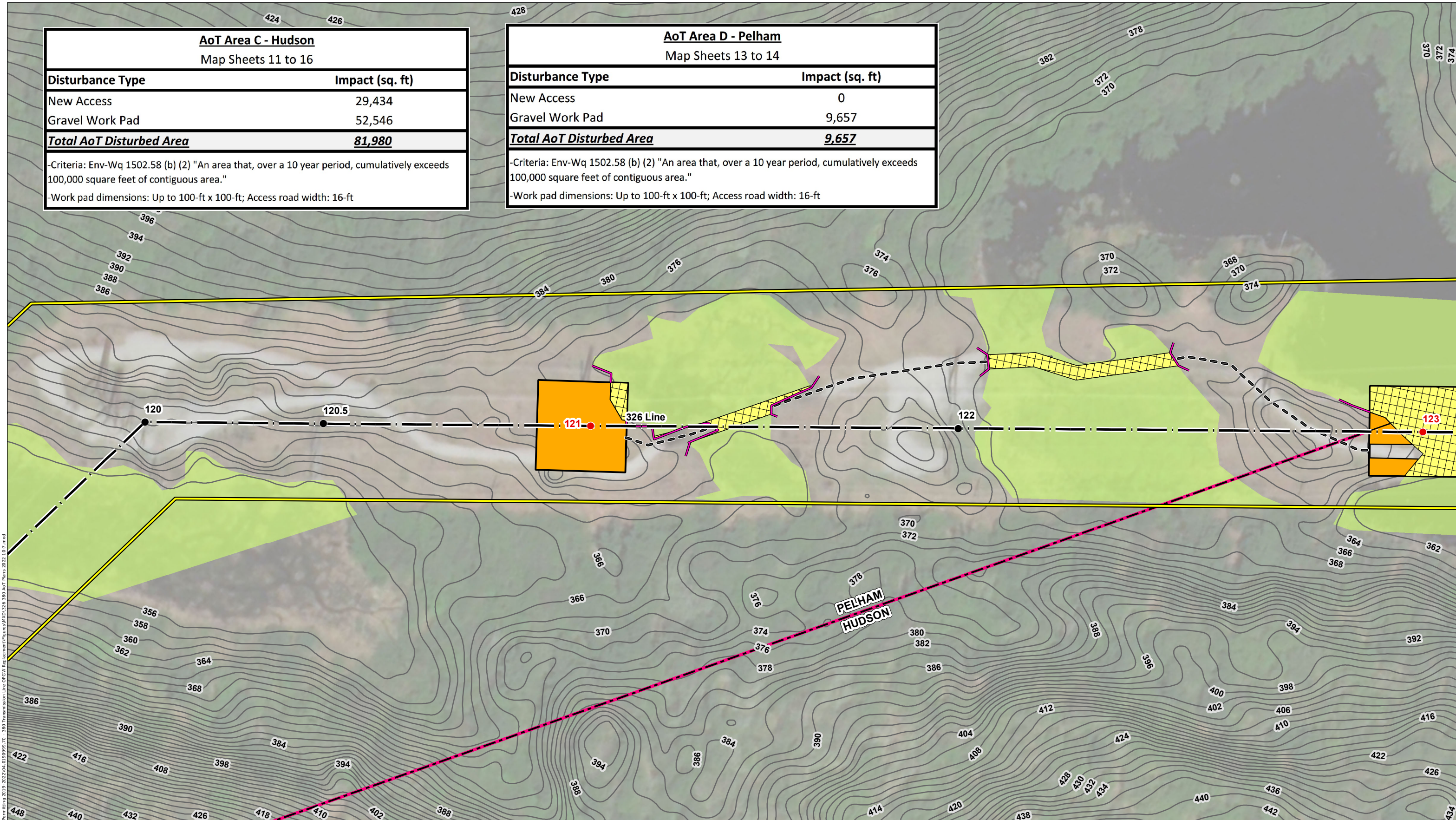


AoT Area C - Hudson Map Sheets 11 to 16	
Disturbance Type	Impact (sq. ft)
New Access	29,434
Gravel Work Pad	52,546
<b>Total AoT Disturbed Area</b>	<b>81,980</b>

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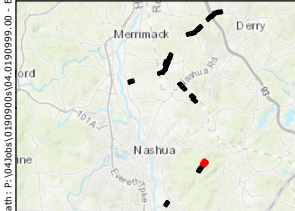
AoT Area D - Pelham Map Sheets 13 to 14	
Disturbance Type	Impact (sq. ft)
New Access	0
Gravel Work Pad	9,657
<b>Total AoT Disturbed Area</b>	<b>9,657</b>

-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



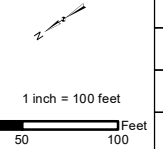
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		<b>326 and 380 Line Structure Replacement &amp; OPGW Project</b>	
		<b>Alteration of Terrain Permitting Plans</b>	
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**AoT Area C - Hudson**

Map Sheets 11 to 16

Disturbance Type	Impact (sq. ft)
New Access	29,434
Gravel Work Pad	52,546
<b>Total AoT Disturbed Area</b>	<b>81,980</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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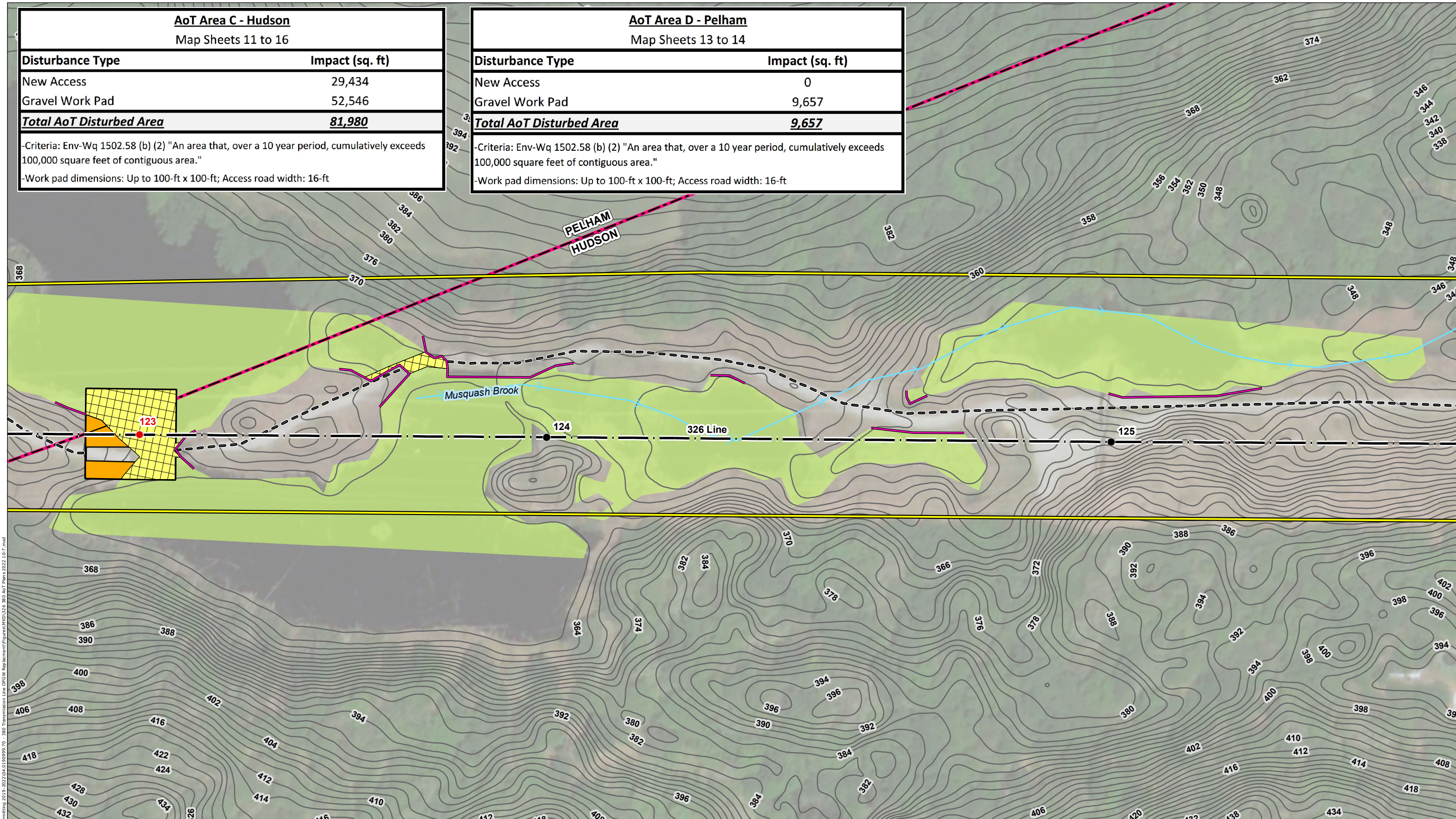
**AoT Area D - Pelham**

Map Sheets 13 to 14

Disturbance Type	Impact (sq. ft)
New Access	0
Gravel Work Pad	9,657
<b>Total AoT Disturbed Area</b>	<b>9,657</b>

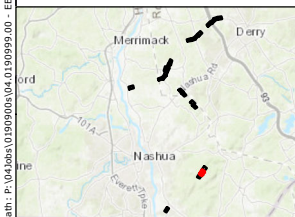
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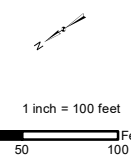
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								<p><b>EVERSOURCE ENERGY</b></p> <p><b>326 and 380 Line Structure Replacement &amp; OPGW Project</b></p> <p><b>Alteration of Terrain Permitting Plans</b></p>	
								Date: March, 2022	
								<p><b>19</b></p>	
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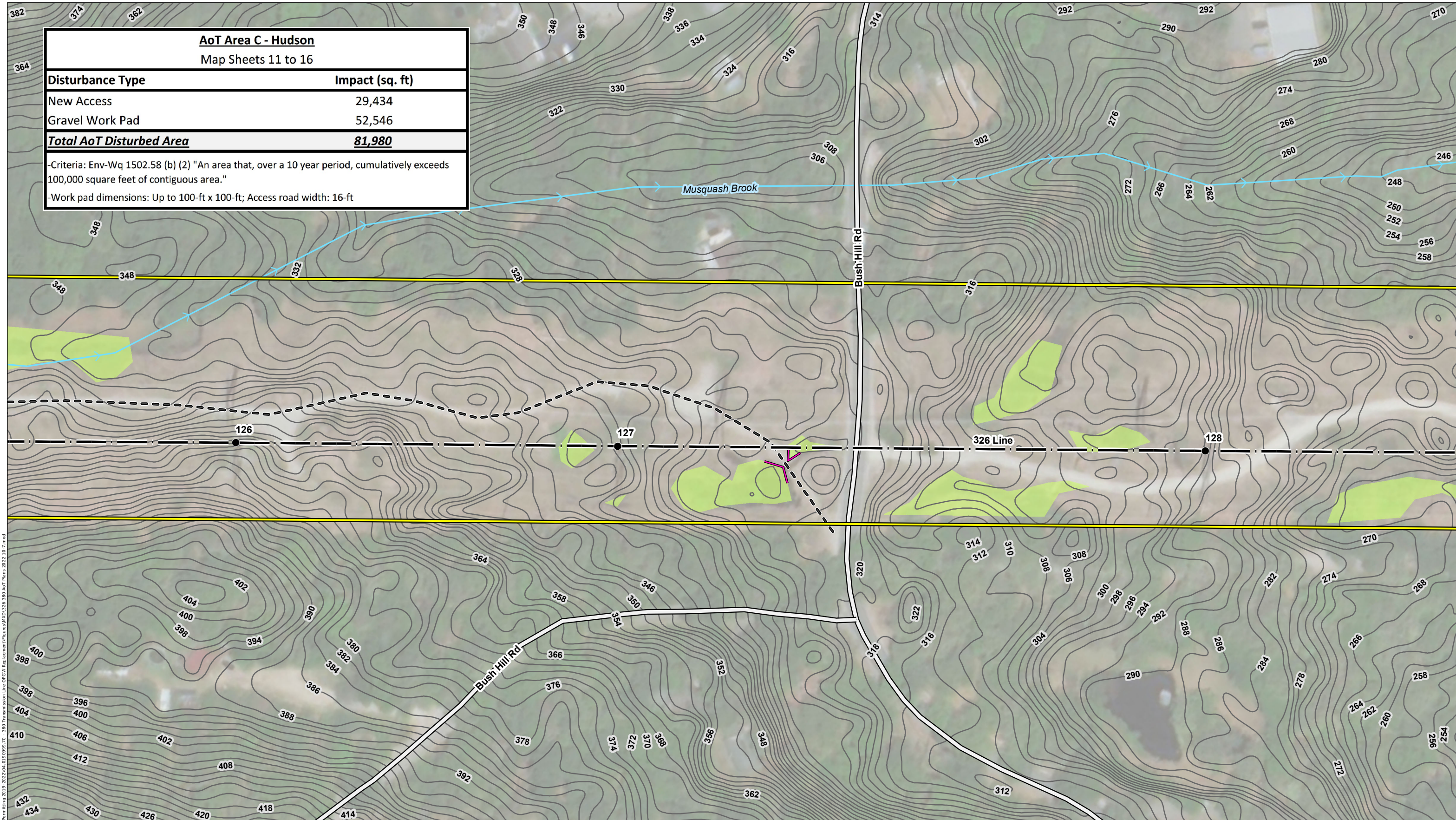
**AoT Area C - Hudson**

Map Sheets 11 to 16

Disturbance Type	Impact (sq. ft)
New Access	29,434
Gravel Work Pad	52,546
<b>Total AoT Disturbed Area</b>	<b>81,980</b>

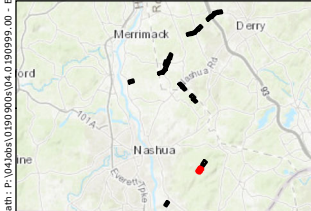
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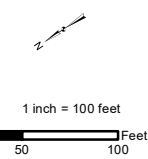
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**326 and 380 Line Structure Replacement & OPGW Project**  
Alteration of Terrain Permitting Plans

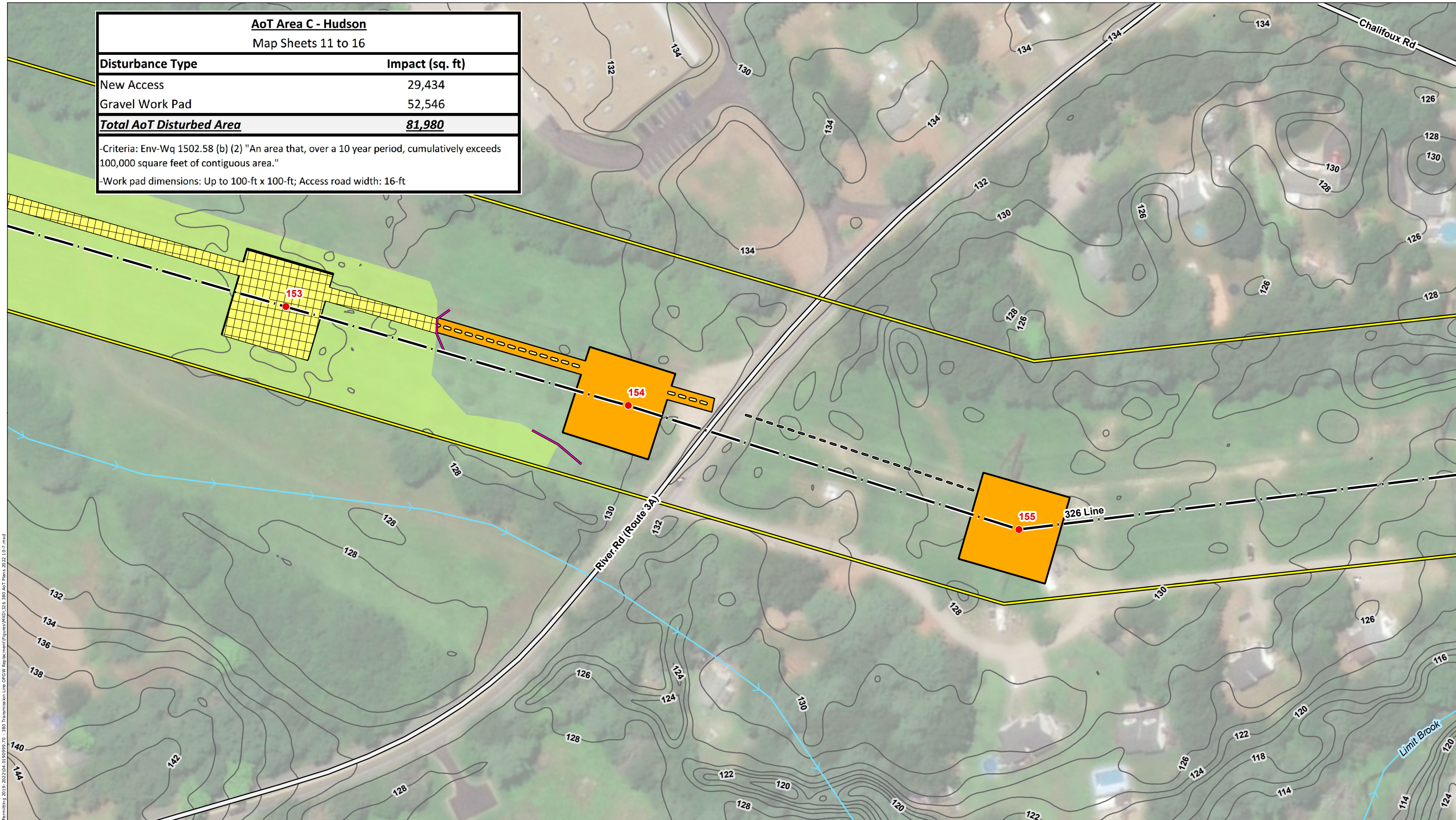
Hudson, NH      MAP SHEET

Date: March, 2022

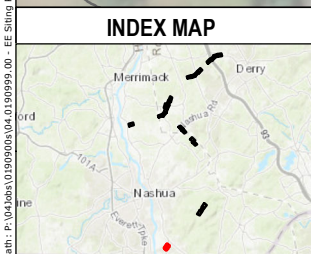
**20**



AoT Area C - Hudson Map Sheets 11 to 16	
Disturbance Type	Impact (sq. ft)
New Access	29,434
Gravel Work Pad	52,546
<b>Total AoT Disturbed Area</b>	<b>81,980</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	

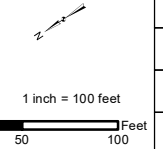


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- EXISTING STRUCTURE
- EXISTING STRUCTURE TO BE REMOVED
- EXISTING STRUCTURE TO BE REPLACED
- EXISTING TRANSMISSION LINE
- APPROXIMATE ROW
- TRENCH AREA
- EROSION AND SEDIMENT CONTROL
- TEMPORARY CONSTRUCTION MATTING
- EXISTING ACCESS
- PRIMARY ACCESS
- OFF-ROW ACCESS
- AOAT AREA
- ▭ PULL PAD
- ▭ NHDOT ROADS
- ▭ WORK PAD
- ▭ RAILROAD
- NHD FLOWLINE
- ▭ TOWN BOUNDARY
- ▭ 2 FOOT CONTOUR
- ▭ WETLAND

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

**EVERSOURCE**  
ENERGY

**326 and 380 Line Structure Replacement & OPGW Project**  
**Alteration of Terrain Permitting Plans**

Hudson, NH	MAP SHEET
Date: March, 2022	<b>21</b>



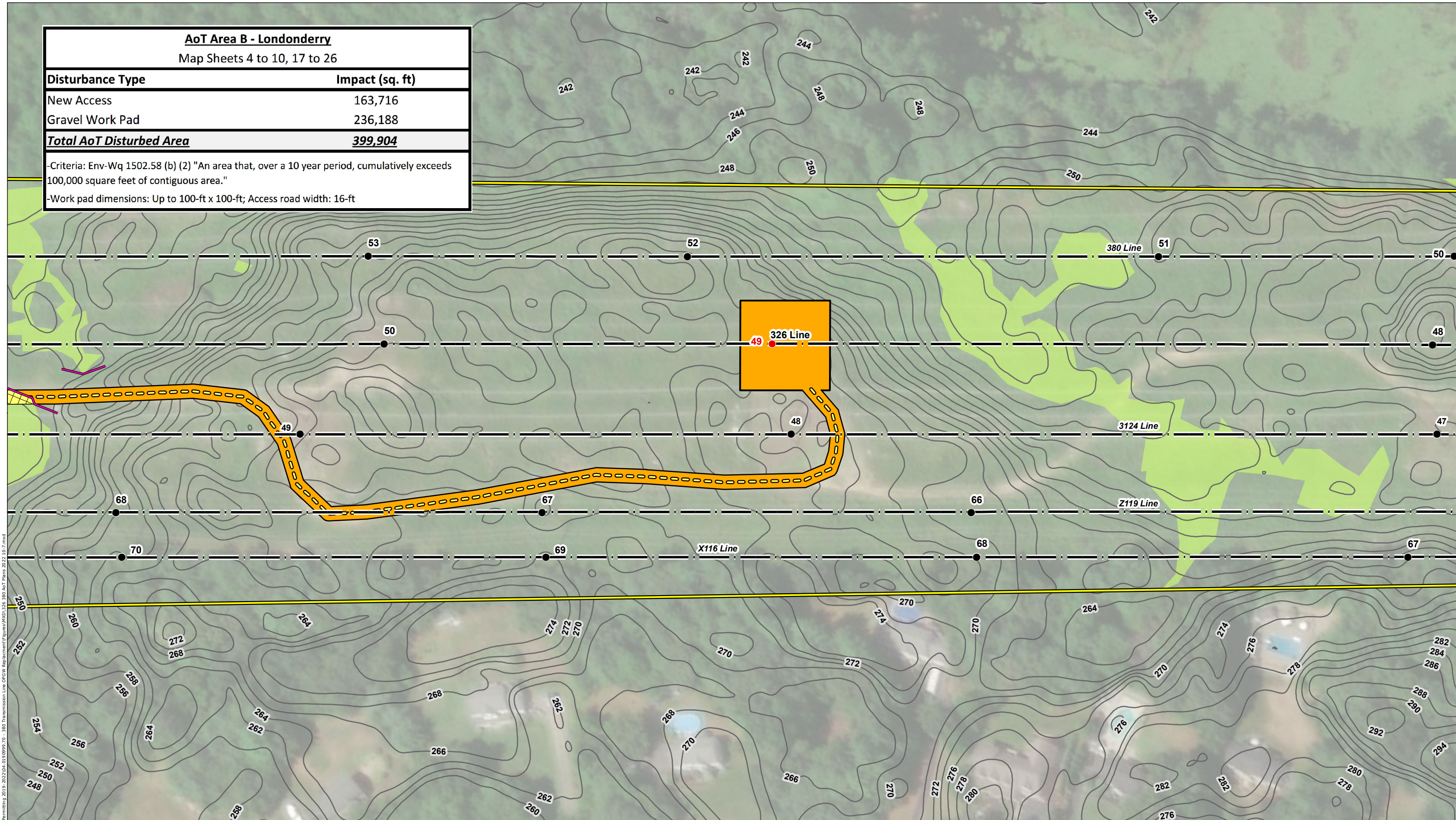
**AoT Area B - Londonderry**

Map Sheets 4 to 10, 17 to 26

Disturbance Type	Impact (sq. ft)
New Access	163,716
Gravel Work Pad	236,188
<b>Total AoT Disturbed Area</b>	<b>399,904</b>

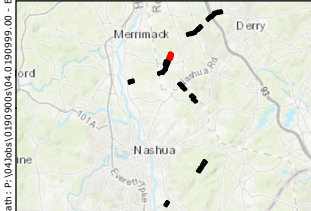
-Criteria: Env-Wq 1502.58 (b) (2) "An area that, over a 10 year period, cumulatively exceeds 100,000 square feet of contiguous area."

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



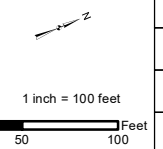
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**INDEX MAP**



- EXISTING STRUCTURE
- EXISTING STRUCTURE TO BE REMOVED
- EXISTING STRUCTURE TO BE REPLACED
- EXISTING TRANSMISSION LINE
- APPROXIMATE ROW
- TRENCH AREA
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- EXISTING ACCESS
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- ▭ 2 FOOT CONTOUR
- ▭ WETLAND

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NO.	DATE	REVISIONS

**EVERSOURCE ENERGY**

**326 and 380 Line Structure Replacement & OPGW Project**  
Alteration of Terrain Permitting Plans

Londonderry, NH      MAP SHEET

Date: March, 2022

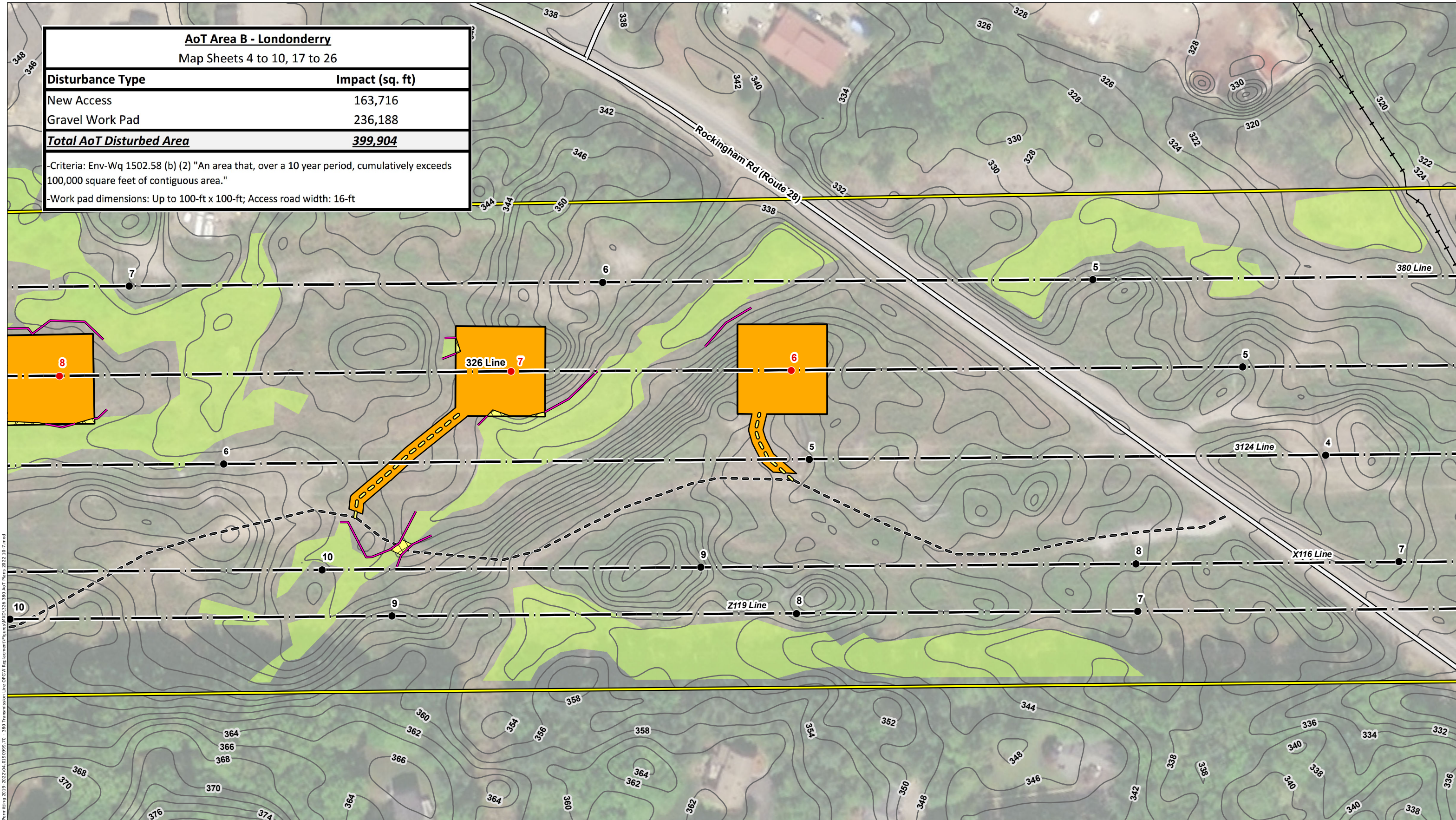
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**AoT Area B - Londonderry**  
Map Sheets 4 to 10, 17 to 26

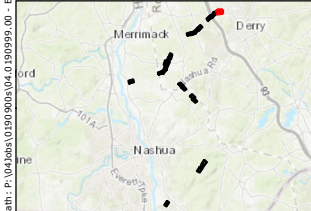
Disturbance Type	Impact (sq. ft)
New Access	163,716
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<b>Total AoT Disturbed Area</b>	<b>399,904</b>

-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



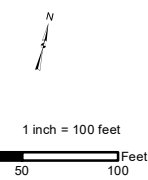
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**INDEX MAP**



- EXISTING STRUCTURE
- EXISTING STRUCTURE TO BE REMOVED
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NO.	DATE	REVISIONS

**EVERSOURCE ENERGY**

**326 and 380 Line Structure Replacement & OPGW Project**  
**Alteration of Terrain Permitting Plans**

Londonderry, NH      MAP SHEET

Date: March, 2022

**23**



© 2022 - GZA GeoEnvironmental, Inc. P:\04.Jobs\0190999\04.0190999\04.0190999\00 - EE Siting Permitting 2019-2022\04.0190999.70 - 380 Transmission Line OPGW Replacement\Figures\MXD\326.380 AOT Notesheet 1 10-8.mxd, 3/4/2022, 1:06:57 PM, matthew.deane

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 (NH DOT 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 NORMANDEAU IN 2016, 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. NORMANDEAU EVALUATED WETLANDS AS POTENTIAL VERNAL POOLS IN 2016 IN ACCORDANCE WITH "IDENTIFICATION AND DOCUMENTATION OF VERNAL POOLS IN NEW HAMPSHIRE," 1997, NEW HAMPSHIRE FISH AND GAME DEPARTMENT, NONGAME AND ENDANGERED WILDLIFE PROGRAM.
4. NORMANDEAU COMPLETED WETLANDS FUNCTION AND VALUES ASSESSMENT IN 2016 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.
8. 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).


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.

326 AND 380 TRANSMISSION LINE STRUCTURE REPLACEMENT & OPGW PROJECT  
MERRIMACK, LITCHFIELD, LONDONDERRY, HUDSON, AND PELHAM  
NEW HAMPSHIRE

NOTES

PREPARED BY:  <b>GZA GeoEnvironmental, Inc.</b> Engineers and Scientists www.gza.com		PREPARED FOR: <b>EVSOURCE ENERGY</b>	
PROJ MGR: LEW	REVIEWED BY: TLT	CHECKED BY: DMZ	SHEET <b>S1</b>
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	
DATE: 03/04/2022	PROJECT NO: 04.0190999.70	REVISION NO.	



## Best Management Practices (BMP's) for Straw wattles

### Definition and purpose:

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

### Applications:

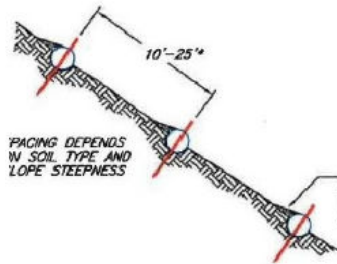
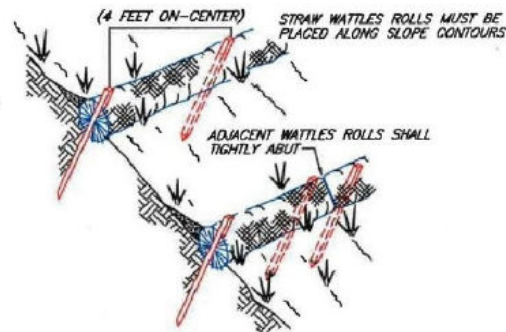
- \* Along erodible or unstabilized slopes
- \* Spread overland waterflow
- \* Trap sediment
- \* Around storm drain inlets to slow water and settle out sediment
- \* Overlap ends approximately 6 inches

### Installation:

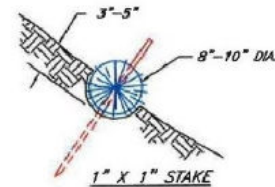
Straw wattles are installed parallel to slope contours and perpendicular to sheet flow.

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

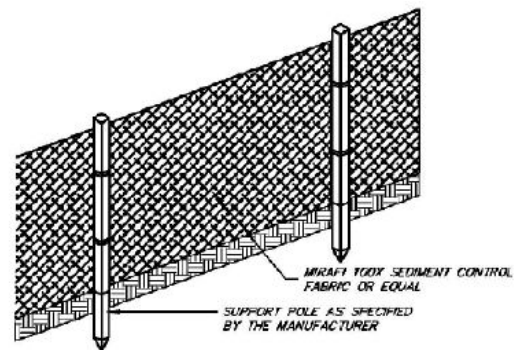
Trenching - 2"-5" inch trench  
Stacking - at each end and four foot on center (i.e. 25 foot wattle uses 6 stacks)



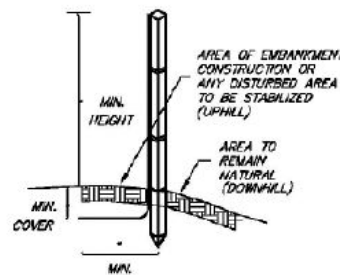
SEDIMENT, ORGANIC MATTER, AND NATIVE SEEDS ARE CAPTURED BEHIND THE WATTLE ROWS.



NOT TO SCALE



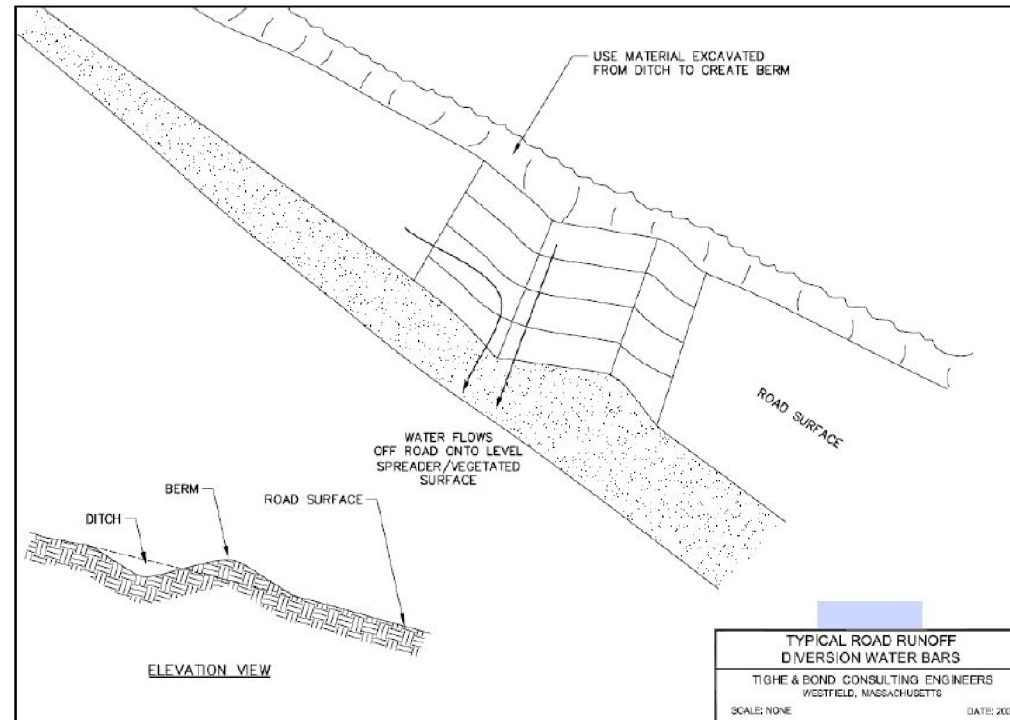
FRONT VIEW



SIDE VIEW

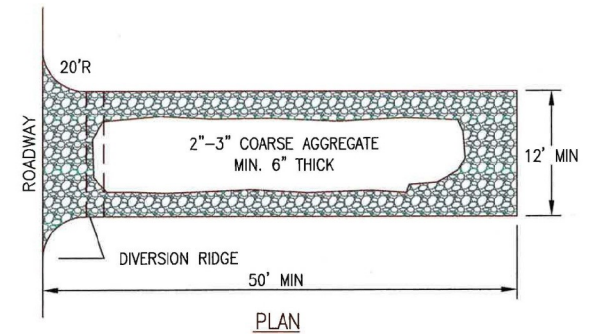
### NOTES (SILT FENCE)

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



ELEVATION VIEW

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



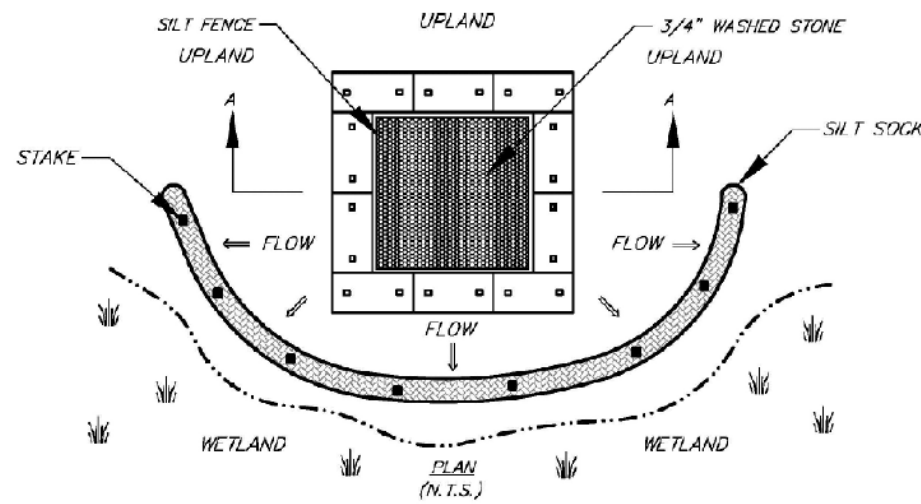
PLAN

### NOTES:

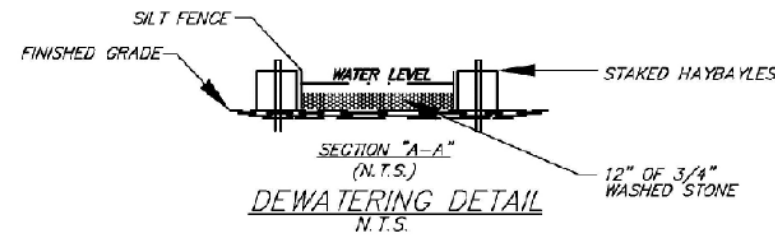
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.

## CONSTRUCTION ENTRANCE

NOT TO SCALE



PLAN (N.T.S.)



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

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326 AND 380 TRANSMISSION LINE  
OPGW AND STRUCTURE REPLACEMENT PROJECT  
MERRIMACK, LITCHFIELD, LONDONDERRY, HUDSON, AND PELHAM  
NEW HAMPSHIRE

## BMP DETAILS

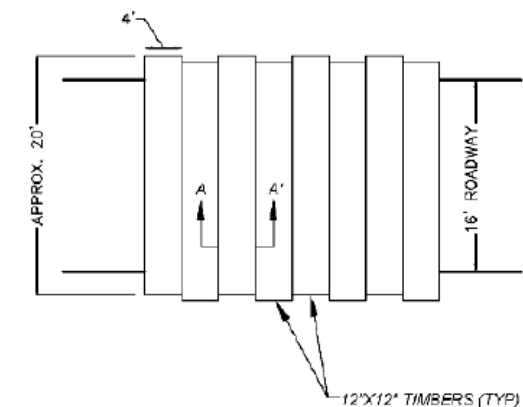
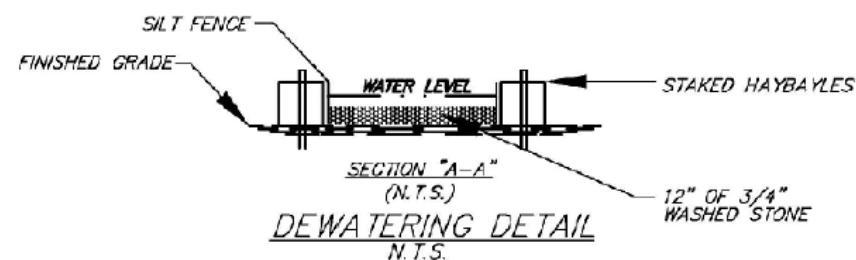
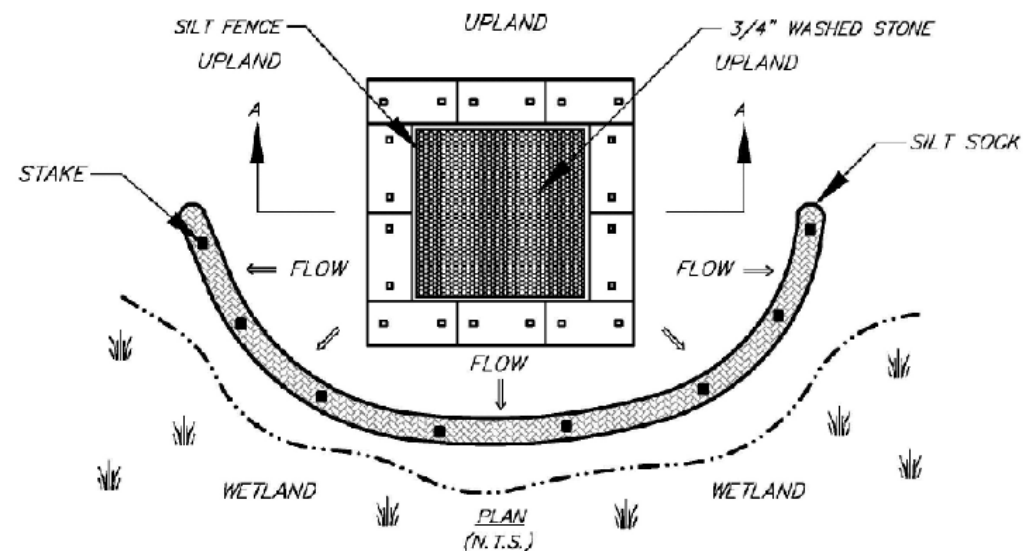
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PROJ MGR: LEW	REVIEWED BY: TLT	CHECKED BY: DMZ	SHEET <b>S2</b>
DESIGNED BY: MJD	DRAWN BY: MJD	SCALE:	
DATE: 03/04/2022	PROJECT NO: 04.0190999.70	REVISION NO:	



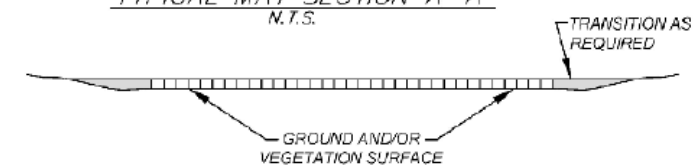
© 2022 - GZA GeoEnvironmental, Inc. P:\04\Jobs\0190999\00 - EE Siting Permitting 2019-2022\04.0190999.70 - 380 Transmission Line OPGW Replacement\Figures\MXD\326 380 AOT Notesheet 3 10-8.mxd, 3/4/2022, 1:11:12 PM, matthew.deane



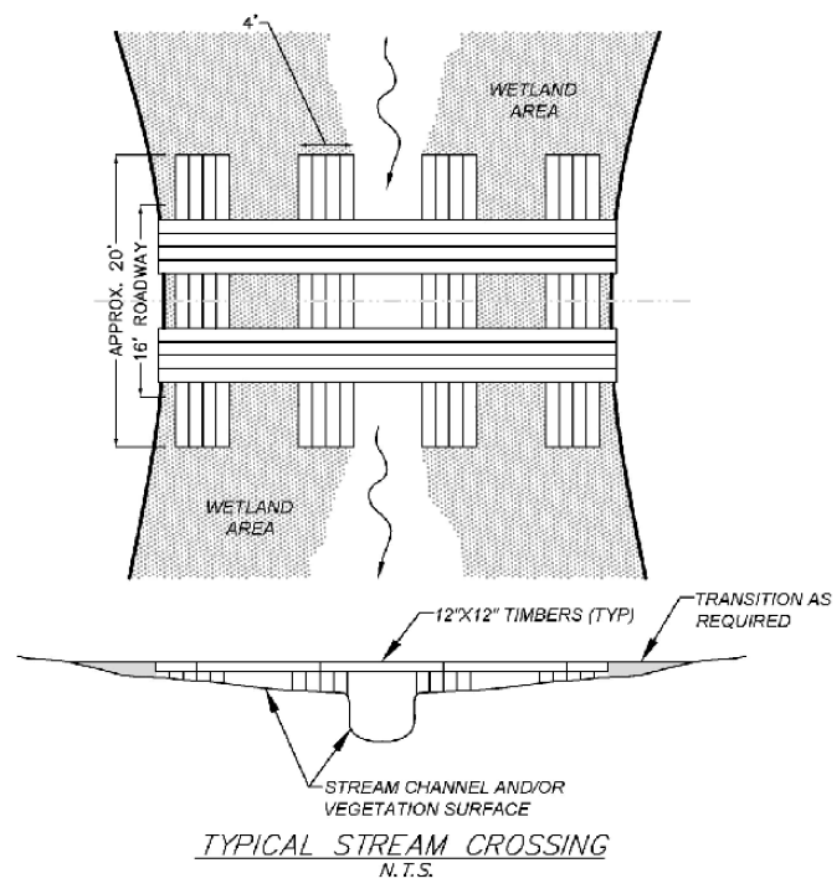
TYPICAL SWAMP MAT PLAN VIEW  
N.T.S.



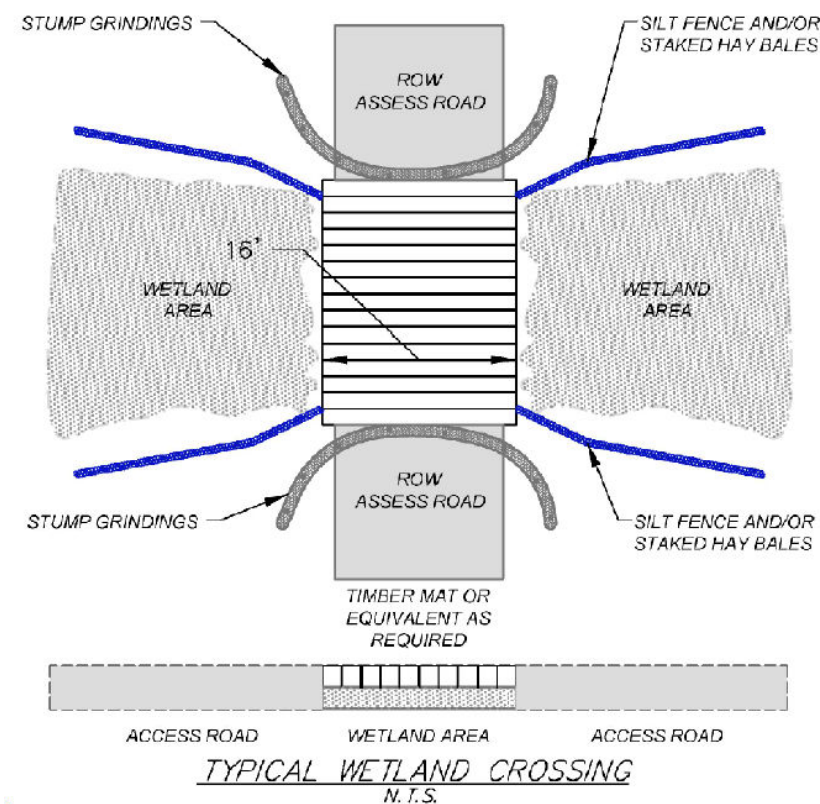
TYPICAL MAT SECTION A-A  
N.T.S.



TYPICAL SWAMP MAT SECTION DETAIL  
N.T.S.



TYPICAL STREAM CROSSING  
N.T.S.



TYPICAL WETLAND CROSSING  
N.T.S.

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BMP DETAILS

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DATE: 03/04/2022	PROJECT NO: 04.0190999.70	REVISION NO.	







**NORTHERN BLACK RACER (COLUBER CONSTRICTOR)**

STATE THREATENED



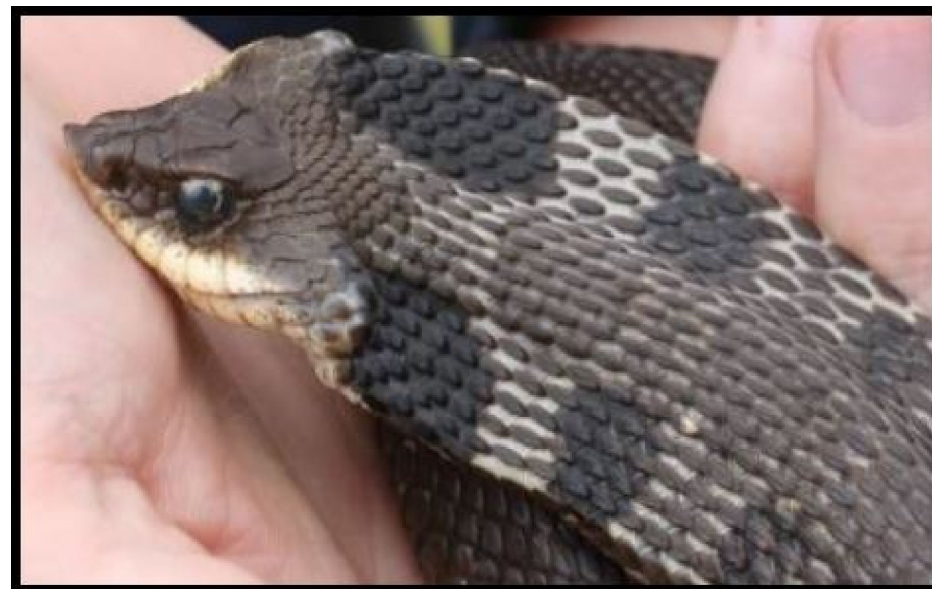
**NORTHERN BLACK RACER IDENTIFICATION**

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



**EASTERN HOGNOSE SNAKE (HETERODON PLATIRHINOS)**

STATE ENDANGERED



**EASTERN HOGNOSE SNAKE IDENTIFICATION**



1. BLACK, GRAY OR PATTERNED APPEARANCE.
2. UPTURNED SNOUT.
3. 2-3 FT. LONG
4. MAY SPREAD NECK OUT OR HISS.



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PELHAM, LITCHFIELD, LONDONDERRY, AND HUDSON  
NEW HAMPSHIRE

**WILDLIFE NOTES (CONT.)**

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



**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.

**EASTERN BOX TURTLE (TERRAPENE CAROLINA CAROLINA)**

STATE ENDANGERED





**EASTERN BOX TURTLE IDENTIFICATION**

1. A SMALL 4.5-7 INCH TURTLE WITH A HIGHLY DOMED SHELL AND VARIABLE PATTERNING.
2. COLOR PATTERNS OF THE CARAPACE TYPICALLY CONSIST OF IRREGULAR YELLOW OR ORANGE MARKINGS OVER A BROWN OR BLACK BASE..
3. THE SKIN IS UNIFORMLY DARK WITH YELLOW OR ORANGE MARKINGS.

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**WILDLIFE NOTES (CONT.)**

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**JEFFERSON/BLUE-SPOTTED SALAMANDER COMPLEX (AMBYSTOMA POP. 3)**

RARE SPECIES



**JEFFERSON/BLUE-SPOTTED SALAMANDER COMPLEX IDENTIFICATION**

1. DARK-BODIED SALAMANDER
2. APPROXIMATELY 3.5-5 INCHES LONG
3. SPECKLED WITH BLUE OR WHITE FLECKS AND SPOTS ACROSS BACK, SIDES, AND TAIL

**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

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NEW HAMPSHIRE**

**WILDLIFE NOTES (CONT.)**

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