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August 11, 2020
File No. 04.0190923.09

Mr. Ridgely Mauck, P.E.
Program Supervisor - Permitting
NHDES Land Resources Management
Alteration of Terrain Bureau
29 Hazen Drive, P.O. Box 95
Concord, New Hampshire 03302

Re: Alteration of Terrain Permit Amendment and Waiver Request
AoT Permit #1769
M127 Transmission Line Structure Replacement Project
Sunapee, Springfield, New London, Andover, Franklin, New Hampshire

Dear Mr. Mauck:

On behalf of Public Service Company of New Hampshire dba Eversource Energy (Eversource), GZA GeoEnvironmental, Inc. (GZA) is submitting this Alteration of Terrain (AoT) Permit Amendment and Waiver Request associated with the proposed M127 Transmission Line Structure Replacement Project in accordance with Terrain Alteration Law (RSA 485-A:17), Administrative Rules (Env-Wq 1500 Alteration of Terrain), and communication between New Hampshire Department of Environmental Services (NHDES) AoT Bureau and GZA on May 14, 2020.

Proposed impact changes are summarized in the table below, and shown in the attached Figures 1-4.

Aot Area	Original Impact Area (sq. ft.)	Revised Impact Area (sq. ft.)
B	151,518	169,787
C	337,771	335,065
D	117,300	119,053
E	224,751	220,134

A formal amendment or new permit is not required if the permit holder meets all of the criteria listed in AoT 1503.21(d). Pursuant to AoT 1503.21(d), the project meets criteria (1)-(3), (5), and (7)-(9).

As discussed during communications between NDHES AoT Bureau and GZA on May 14, 2020, GZA is requesting a waiver from AoT 1503.21(d):



- (4) As compared to the project as originally approved, the total impervious area has decreased, remained the same, or increased by the smaller of 5% or 2,500 square feet; and
- (6) The roadway centerline has not been relocated or has been relocated to no more than 20 feet from the center line of the roadway as originally approved.

Amendments are being proposed to access routes within AoT Areas C, D, and E as a result of contractor review of proposed access routes and work locations prior to the start of construction. Proposed access route amendments are necessary to provide safer vehicle and equipment access within the M127 Transmission Line right-of-way, and maintain required ground clearance between equipment and electric lines.

An amendment is also being proposed to extend access in Area B from Structure 237 to a pull pad at Structure 234. The location of the pull pad is required in order to complete fiber wire replacement. Fiber wire replacement is proposed to begin after the structure replacement project in Fall 2020. Recently, new information regarding pull pad locations became available that was not included in the original AoT application submitted. Eversource proposes to complete fiber wire replacement directly following structure replacement work since access roads and wetland matting will already be in place from the structure replacement work, and completing the two projects in tandem will ultimately reduce wetland impact by not having to re-mat wetlands in the next growing season.

In addition to this letter, amended AoT plans are attached, and pages containing amendments are listed below;

- Area B: Pages 8-8.1;
- Area C: Pages 20-21;
- Area D: Pages 24-25; and
- Area E: Pages 27-31.

Please feel free to contact us with any questions.

Very truly yours,

GZA GEOENVIRONMENTAL, INC.

Handwritten signature of Lindsey E. White in black ink.

Lindsey E. White, Apprentice Wetland Scientist
Assistant Project Manager

Handwritten signature of Deborah M. Zarta Gier in black ink.

Deborah M. Zarta Gier, CNRP
Consultant/Reviewer

Handwritten signature of Tracy L. Tarr in black ink.

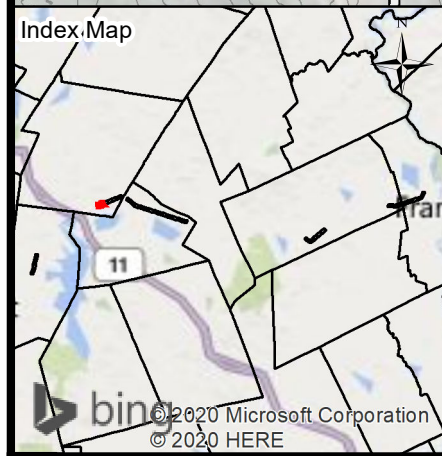
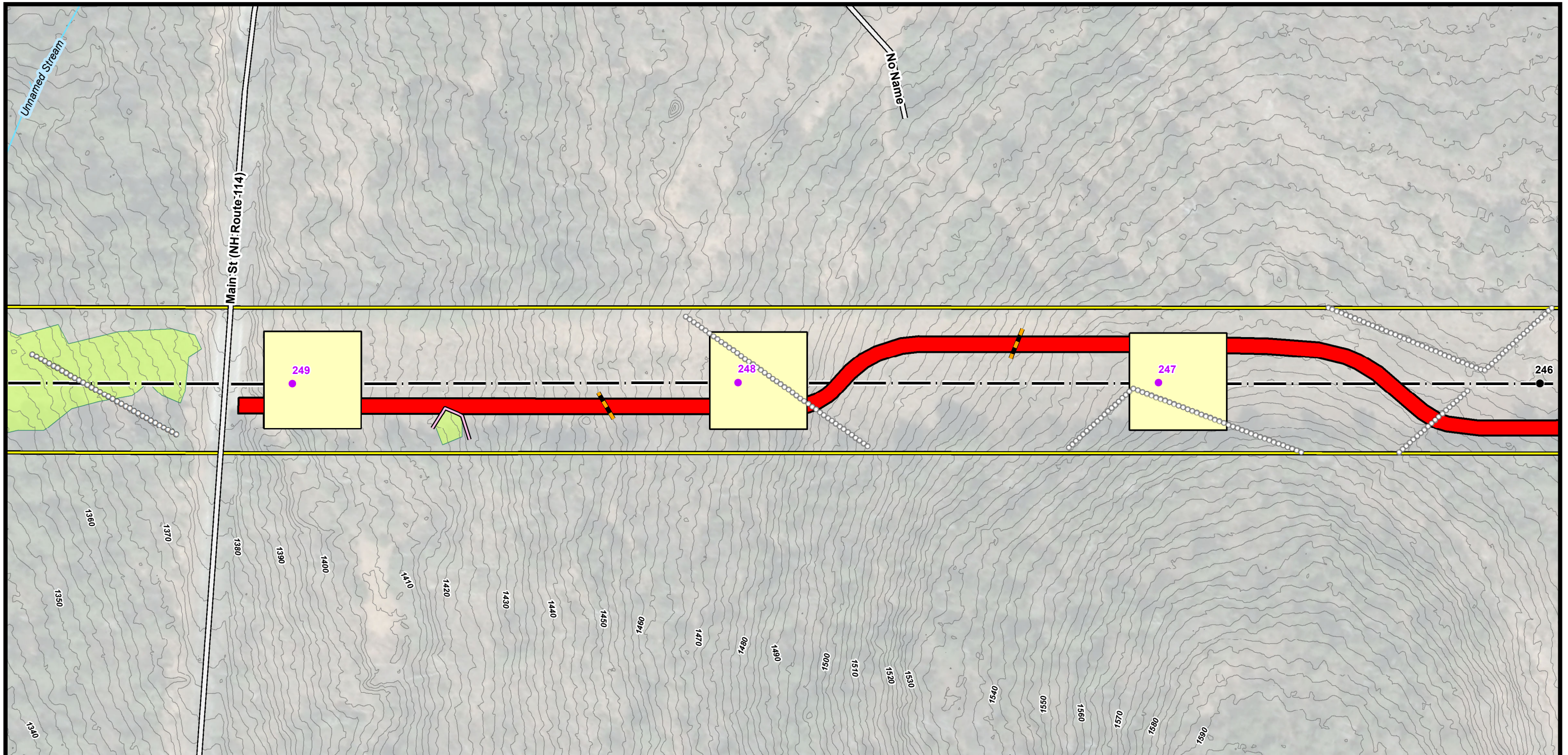
Tracy L. Tarr, CWS, CWB, CESSWI
Associate Principal

LEW/TLT/DMZ



Attachment: Figure 1 - Amended Alteration of Terrain Plans – Area B
Figure 2 - Amended Alteration of Terrain Plans – Area C
Figure 3 - Amended Alteration of Terrain Plans – Area D
Figure 4 - Amended Alteration of Terrain Plans – Area E

AoT Plans Revision Area B



Sunapee ← **Current Town: Springfield** → **Franklin**

● EXISTING STRUCTURE - NO PROPOSED WORK	■ WETLAND
● EXISTING STRUCTURE - TO BE REMOVED	— TRANSMISSION LINE
● EXISTING STRUCTURE - TO BE REPLACED	— DOT ROADS
● EXISTING STRUCTURE - FIBER REPLACE	→ NHD FLOWLINE
— SRAW WATTLE	— APPROXIMATE ROW
— WATER BAR	— SHORELAND ZONE
— ACCESS	— TOWN BOUNDARY
○ STONEWALL	■ POTENTIAL VERNAL POOL
■ TEMPORARY WETLAND IMPACT	— FENCE
■ ORIGINAL TEMPORARY WETLAND IMPACTS	— GATE
■ AOT DISTURBANCE AREA	— 2FT ELEVATION CONTOURS
■ ORIGINAL AOT DISTURBANCE AREA	■ UPLAND MATTING
■ AOT DISTURBANCE AREA - PULL PAD LOCATION	■ WORK PAD
■ EXISTING-IMPROVED ACCESS	

NOTES:

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2. DATA INCLUDING "STRUCTURES", "TRANSMISSION LINE", "WETLAND", "PARCEL DATA", "ARCHAEOLOGICAL SENSITIVITY AREAS", "RARE SPECIES" AND "APPROXIMATE ROW" WERE PROVIDED BY EVERSOURCE ENERGY.
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0 50 100 200 Feet

M127 STRUCTURE REPLACEMENT PROJECT

ALTERATION OF TERRAIN PERMITTING PLANS - REVISED August 11, 2020

SUNAPEE, SPRINGFIELD, NEW LONDON, ANDOVER, & FRANKLIN NEW HAMPSHIRE

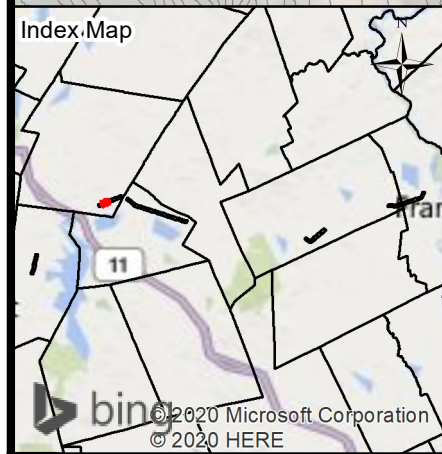
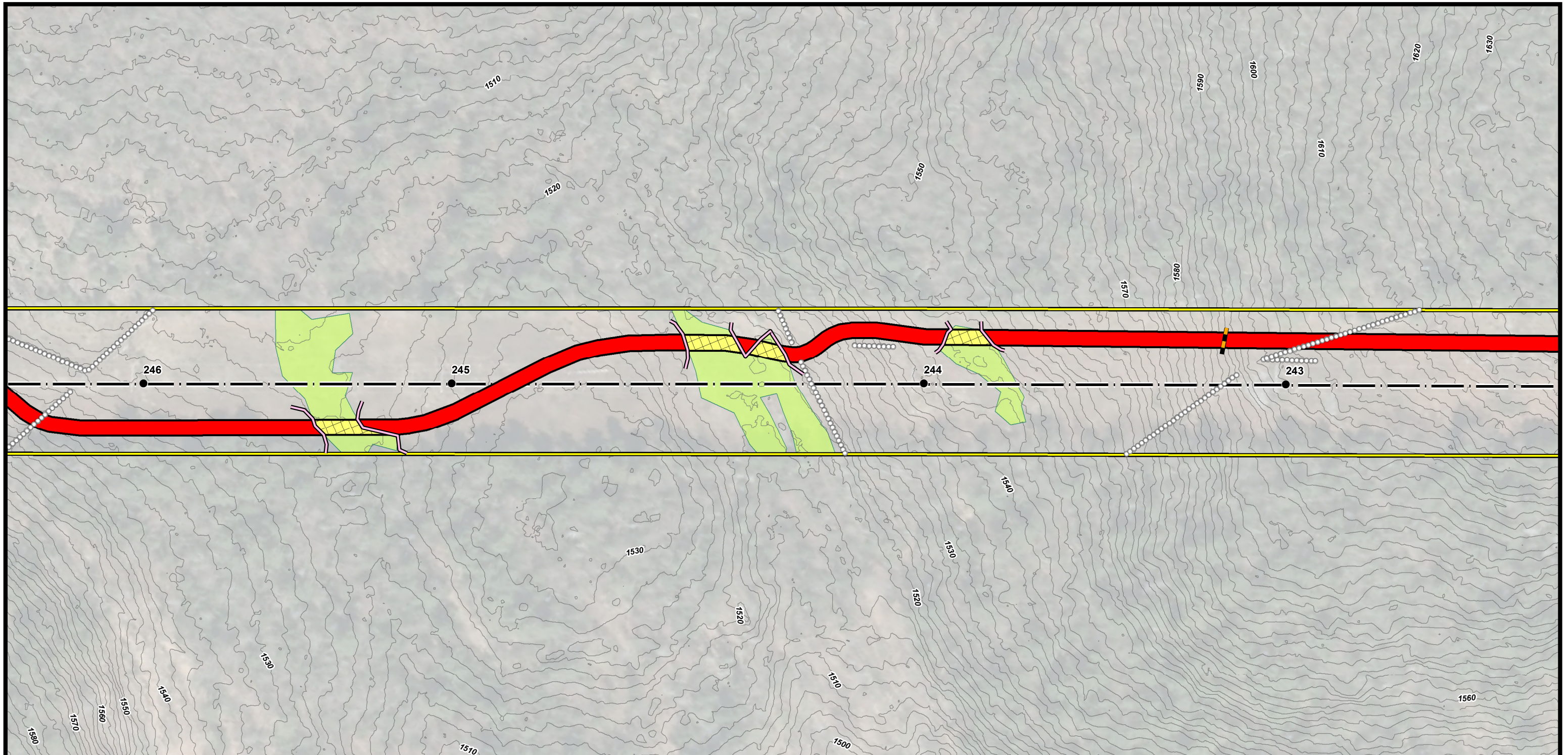
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Project No.: 04.0190923.09

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1 inch = 100 feet



Sunapee		Current Town: Springfield		Franklin	
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● EXISTING STRUCTURE - TO BE REMOVED	■ ORIGINAL TEMPORARY WETLAND IMPACTS	— SHORELAND ZONE	— TOWN BOUNDARY	■ POTENTIAL VERNAL POOL	— FENCE
● EXISTING STRUCTURE - TO BE REPLACED	■ AOT DISTURBANCE AREA	— 2FT ELEVATION CONTOURS	— UPLAND MATTING	■ WORK PAD	
● EXISTING STRUCTURE - FIBER REPLACE	■ ORIGINAL AOT DISTURBANCE AREA				
— SRAW WATTLE	■ AOT DISTURBANCE AREA - PULL PAD LOCATION				
— WATER BAR	■ EXISTING-IMPROVED ACCESS				
— ACCESS					
— STONEWALL					
— TEMPORARY WETLAND IMPACT					
— ORIGINAL TEMPORARY WETLAND IMPACTS					
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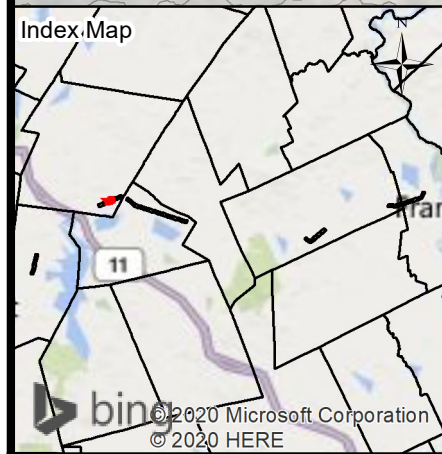
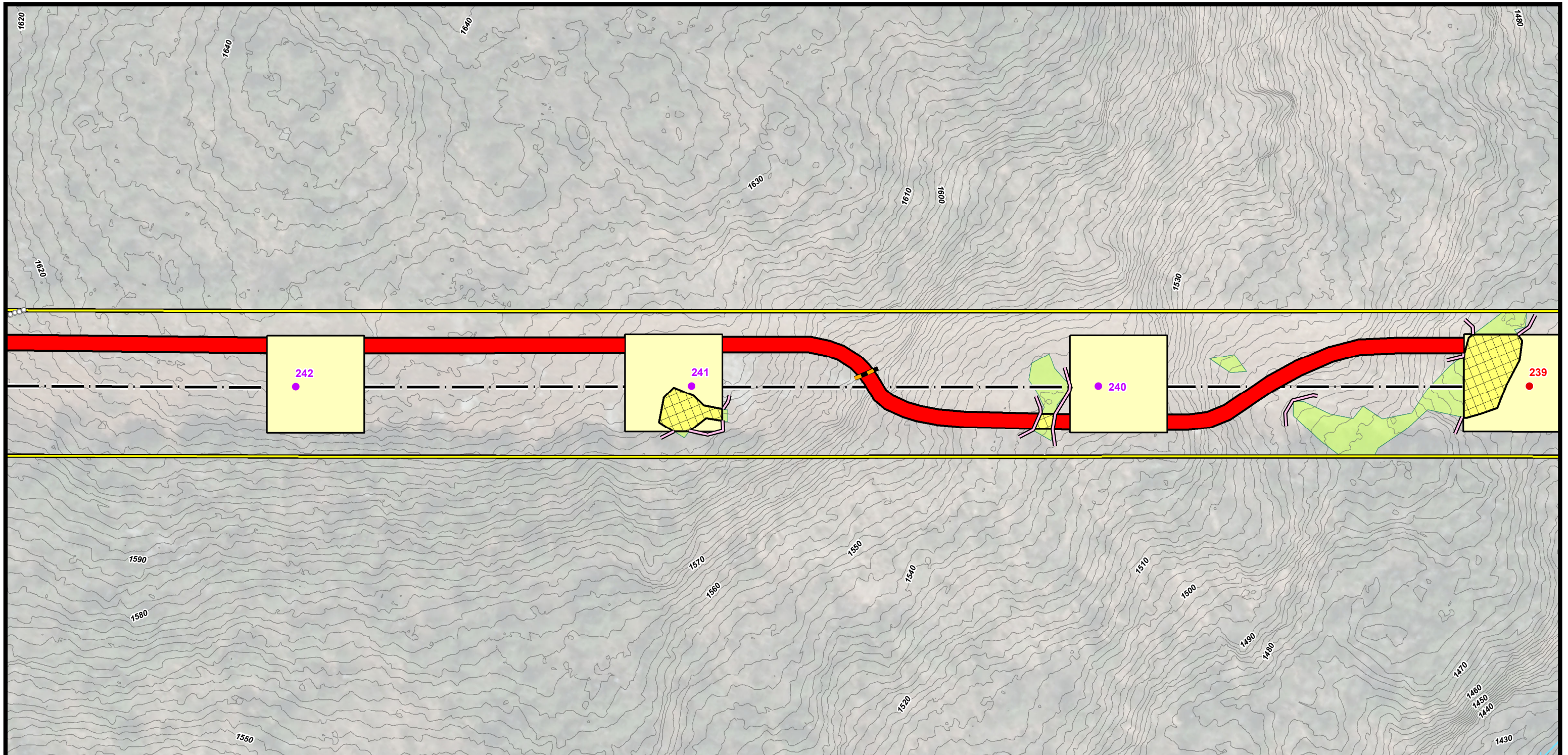
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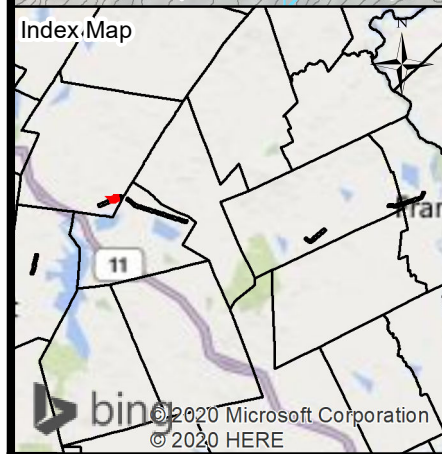
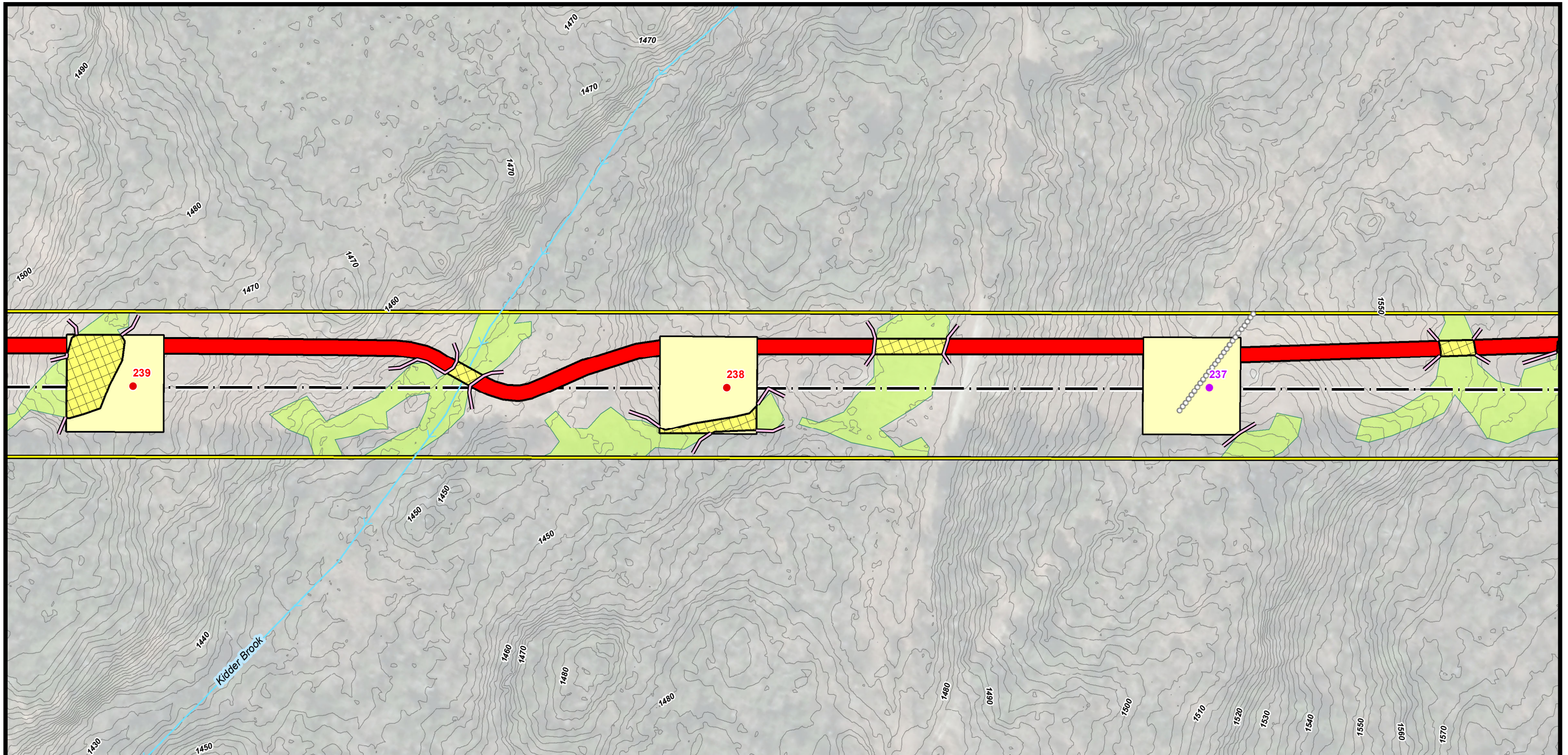
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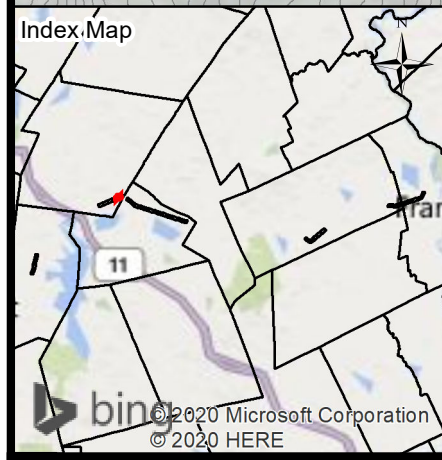
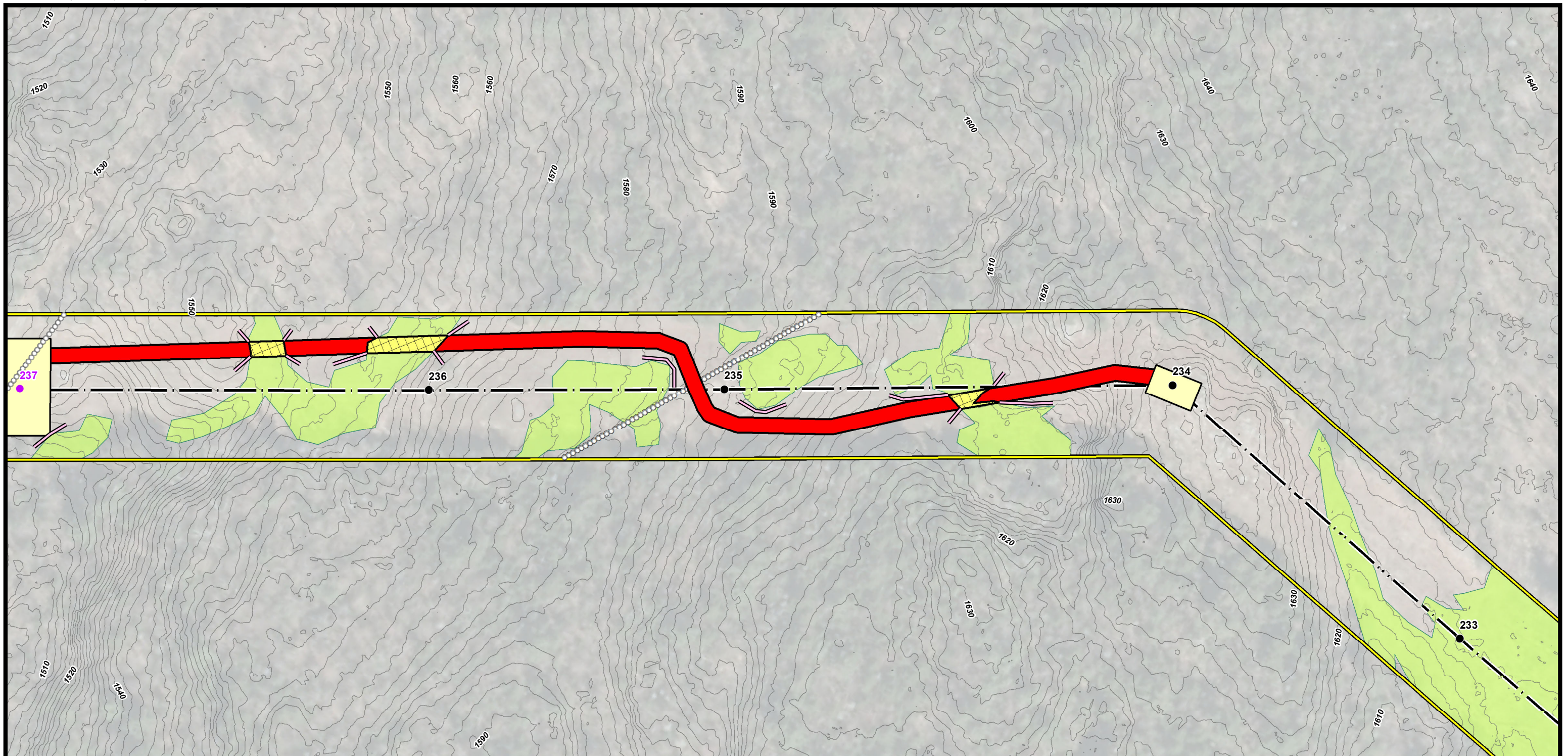
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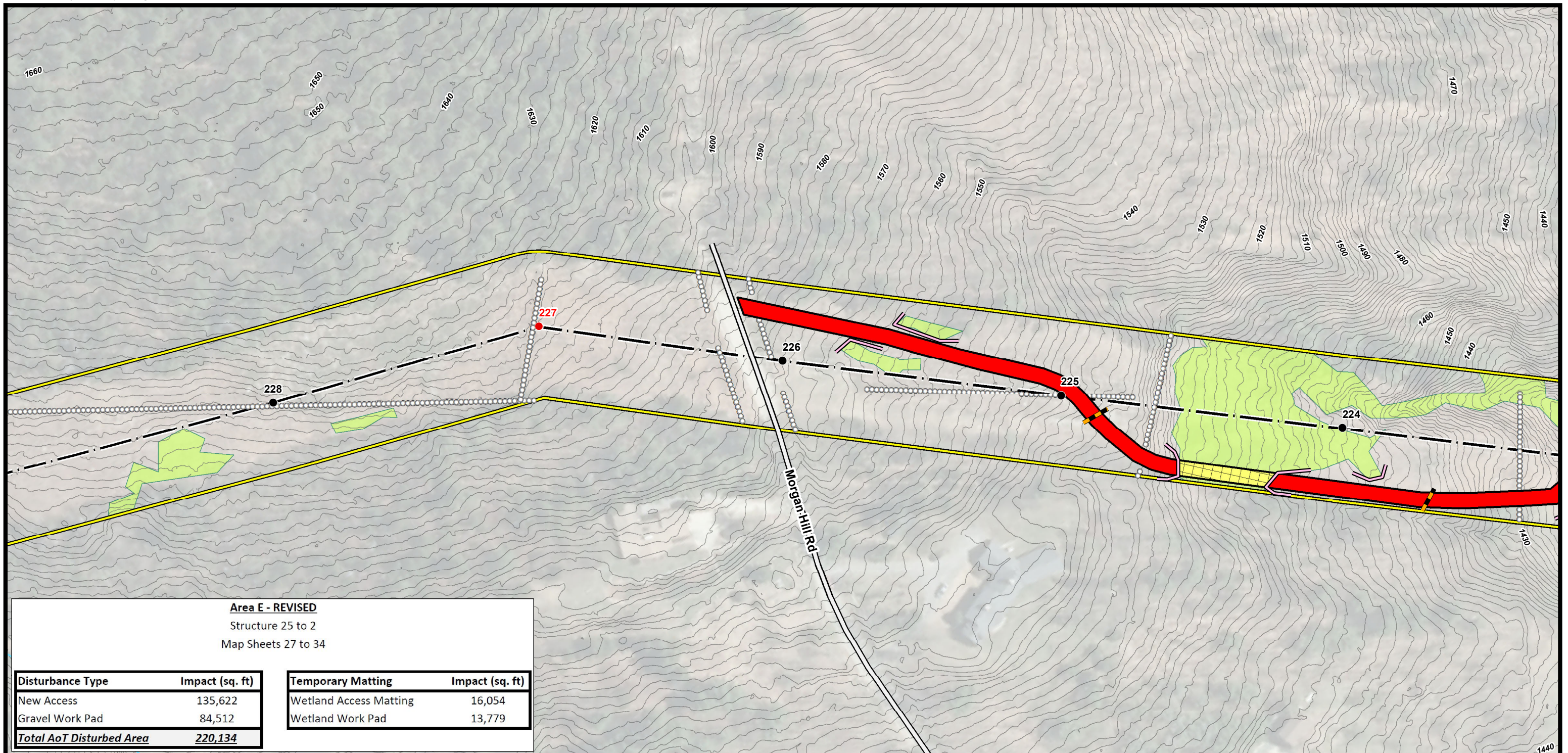
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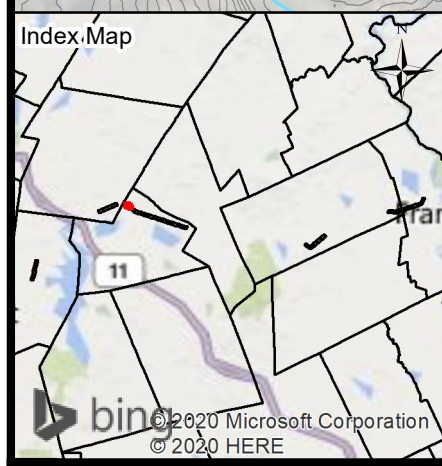
AoT Plans Revision Area C



Area E - REVISED
 Structure 25 to 2
 Map Sheets 27 to 34

Disturbance Type	Impact (sq. ft)
New Access	135,622
Gravel Work Pad	84,512
Total AoT Disturbed Area	220,134

Temporary Matting	Impact (sq. ft)
Wetland Access Matting	16,054
Wetland Work Pad	13,779



Sunapee ← **Current Town: New London** → **Franklin**

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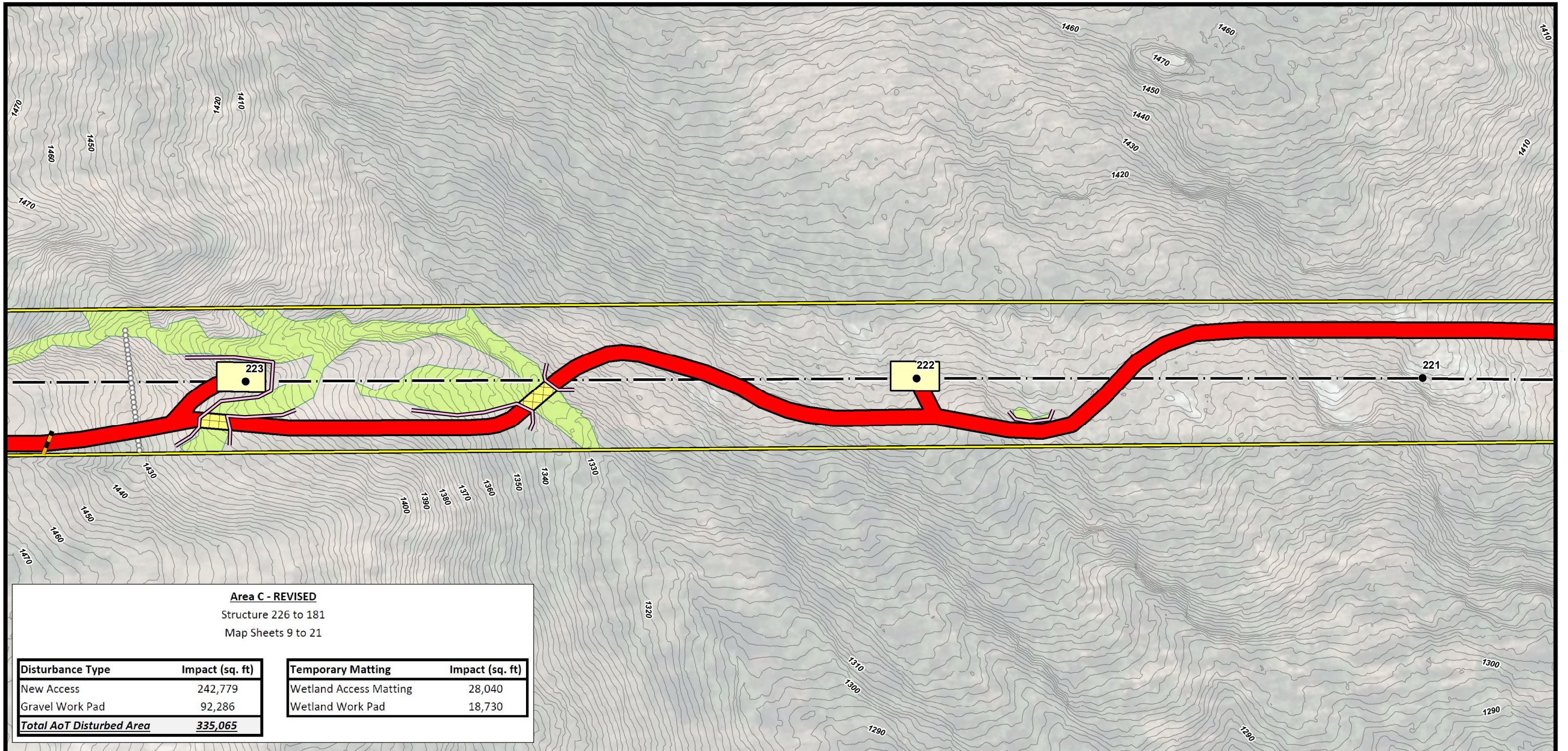
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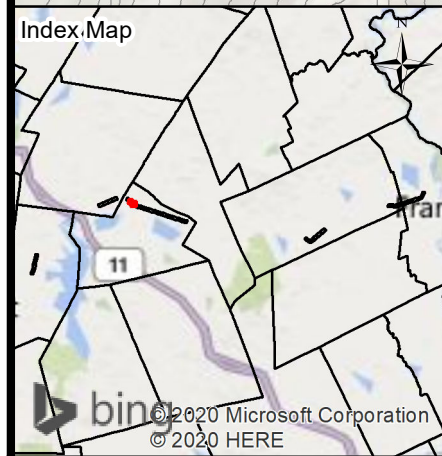


Area C - REVISED

Structure 226 to 181
Map Sheets 9 to 21

Disturbance Type	Impact (sq. ft)
New Access	242,779
Gravel Work Pad	92,286
Total AoT Disturbed Area	335,065

Temporary Matting	Impact (sq. ft)
Wetland Access Matting	28,040
Wetland Work Pad	18,730



← Sunapee Current Town: **New London** Franklin →

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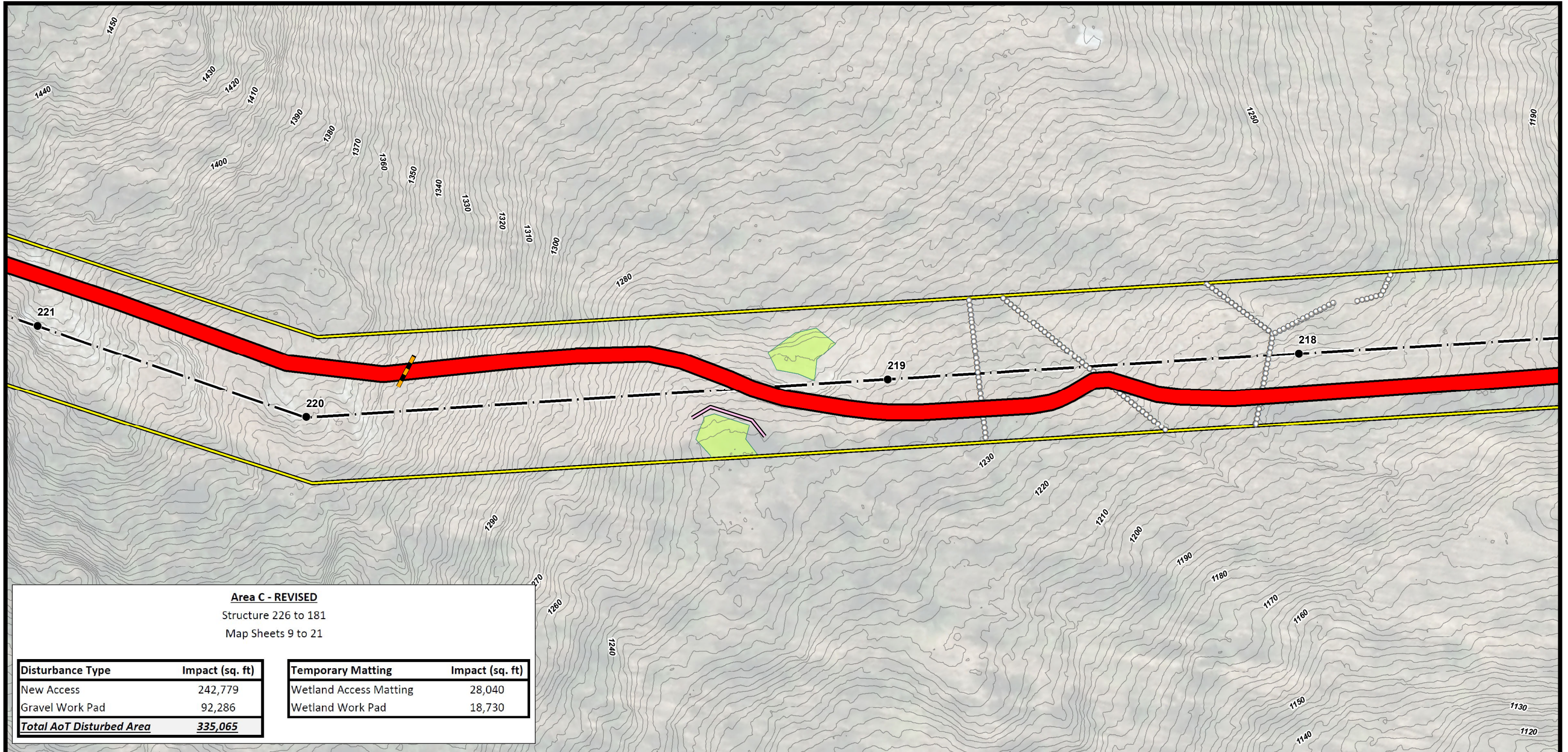
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SUNAPEE, SPRINGFIELD, NEW LONDON, ANDOVER, & FRANKLIN
NEW HAMPSHIRE
PAGE 10 OF 34

Project No.: 04.0190923.09 1 inch = 100 feet

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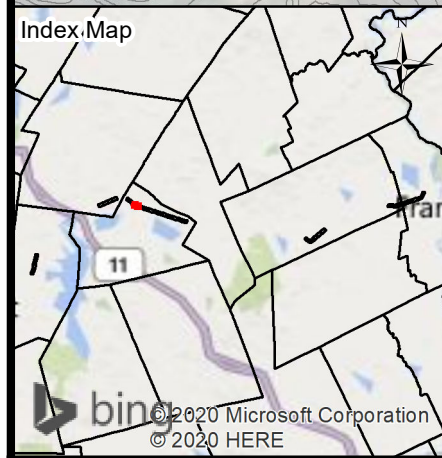
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Area C - REVISED
 Structure 226 to 181
 Map Sheets 9 to 21

Disturbance Type	Impact (sq. ft)
New Access	242,779
Gravel Work Pad	92,286
Total AoT Disturbed Area	335,065

Temporary Matting	Impact (sq. ft)
Wetland Access Matting	28,040
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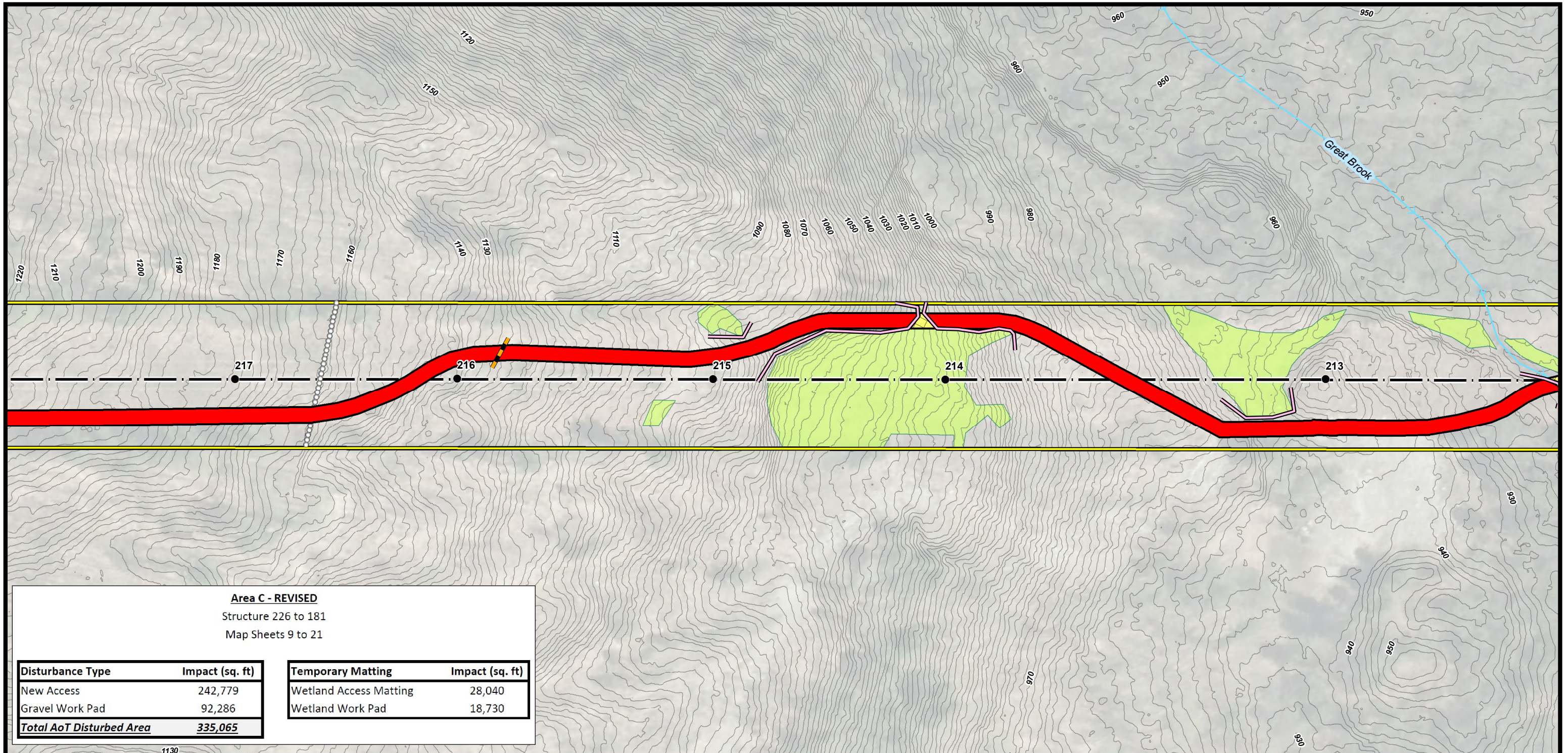
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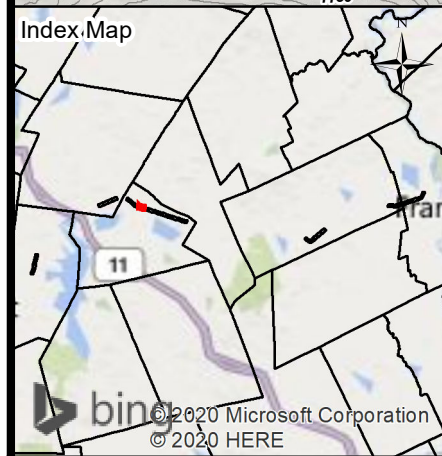
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Area C - REVISED
 Structure 226 to 181
 Map Sheets 9 to 21

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New Access	242,779
Gravel Work Pad	92,286
Total AoT Disturbed Area	335,065

Temporary Matting	Impact (sq. ft)
Wetland Access Matting	28,040
Wetland Work Pad	18,730



Sunapee ← **Current Town: New London** **Franklin** →

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- EXISTING STRUCTURE - TO BE REMOVED
- EXISTING STRUCTURE - TO BE REPLACED
- EXISTING STRUCTURE - FIBER REPLACE
- SRAW WATTLE
- WATER BAR
- ACCESS
- STONEWALL
- TEMPORARY WETLAND IMPACT
- ORIGINAL TEMPORARY WETLAND IMPACTS
- AoT DISTURBANCE AREA
- ORIGINAL AoT DISTURBANCE AREA
- AoT DISTURBANCE AREA - PULL PAD LOCATION
- EXISTING-IMPROVED ACCESS
- WETLAND
- TRANSMISSION LINE
- DOT ROADS
- NHD FLOWLINE
- APPROXIMATE ROW
- SHORELAND ZONE
- TOWN BOUNDARY
- POTENTIAL VERNAL POOL
- FENCE
- GATE
- 2FT ELEVATION CONTOURS
- UPLAND MATTING
- WORK PAD

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0 50 100 200
 Feet

M127 STRUCTURE REPLACEMENT PROJECT

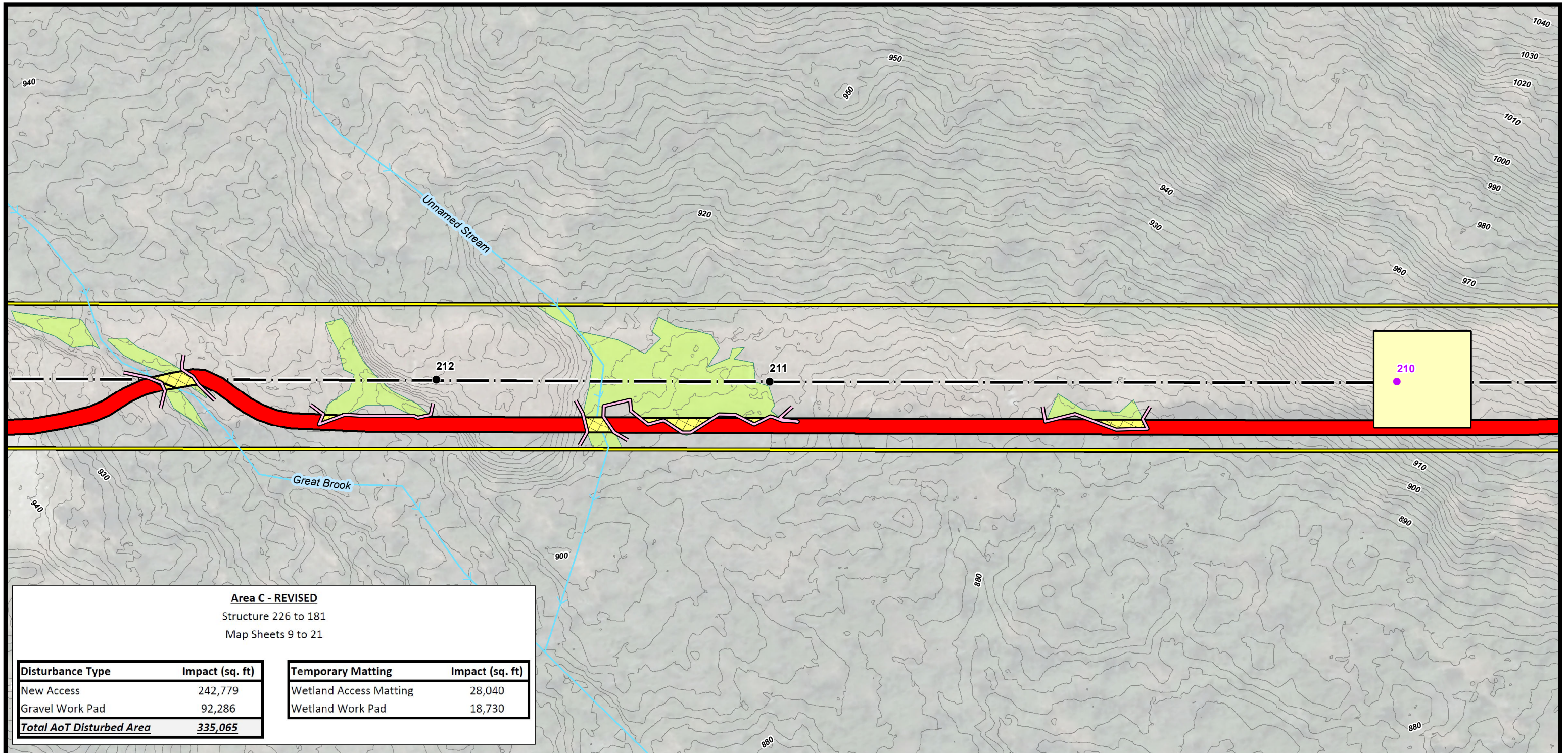
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 August 11, 2020

SUNAPEE, SPRINGFIELD, NEW LONDON, ANDOVER, & FRANKLIN
 NEW HAMPSHIRE
 PAGE 12 OF 34

Project No.: 04.0190923.09 1 inch = 100 feet

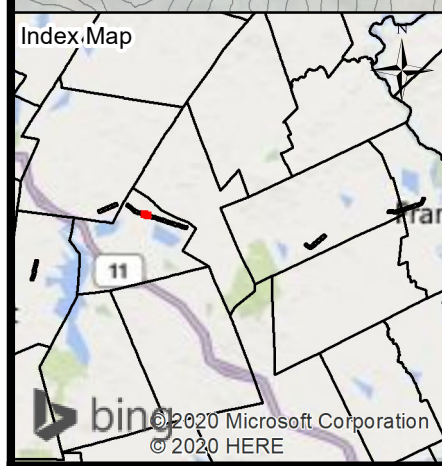
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Area C - REVISED
 Structure 226 to 181
 Map Sheets 9 to 21

Disturbance Type	Impact (sq. ft)	Temporary Matting	Impact (sq. ft)
New Access	242,779	Wetland Access Matting	28,040
Gravel Work Pad	92,286	Wetland Work Pad	18,730
Total AoT Disturbed Area	335,065		



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0 50 100 200 Feet

M127 STRUCTURE REPLACEMENT PROJECT

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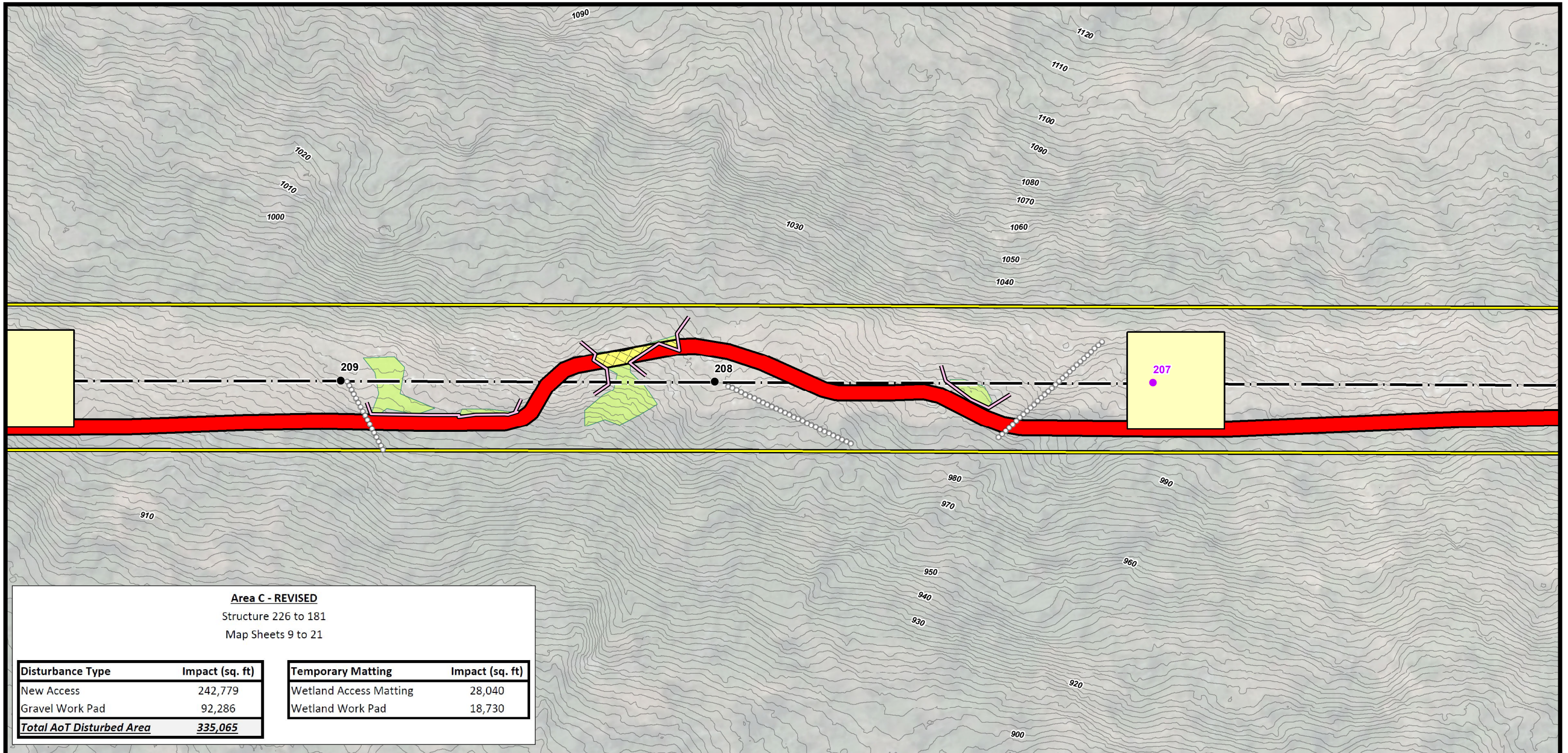
SUNAPEE, SPRINGFIELD, NEW LONDON, ANDOVER, & FRANKLIN
 NEW HAMPSHIRE

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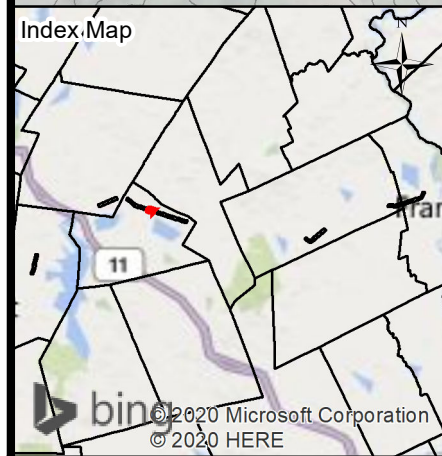
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Area C - REVISED
 Structure 226 to 181
 Map Sheets 9 to 21

Disturbance Type	Impact (sq. ft)
New Access	242,779
Gravel Work Pad	92,286
Total AoT Disturbed Area	335,065

Temporary Matting	Impact (sq. ft)
Wetland Access Matting	28,040
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0 50 100 200
 Feet

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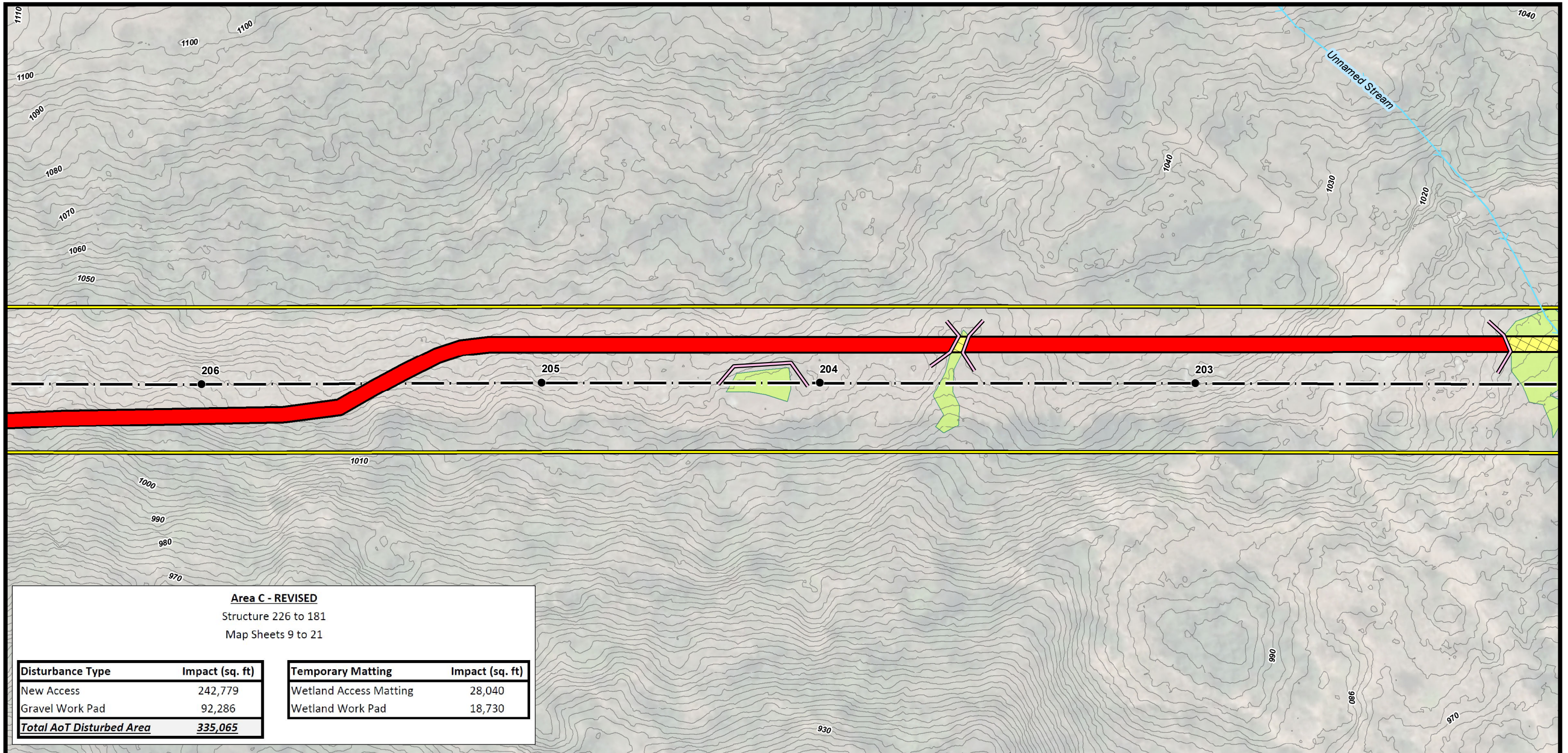
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 NEW HAMPSHIRE
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Project No.: 04.0190923.09 1 inch = 100 feet

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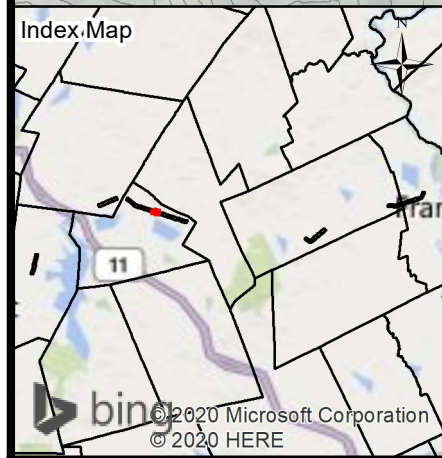
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Area C - REVISED
Structure 226 to 181
Map Sheets 9 to 21

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New Access	242,779
Gravel Work Pad	92,286
Total AoT Disturbed Area	335,065

Temporary Matting	Impact (sq. ft)
Wetland Access Matting	28,040
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0 50 100 200 Feet

M127 STRUCTURE REPLACEMENT PROJECT

ALTERATION OF TERRAIN PERMITTING PLANS - REVISED
August 11, 2020

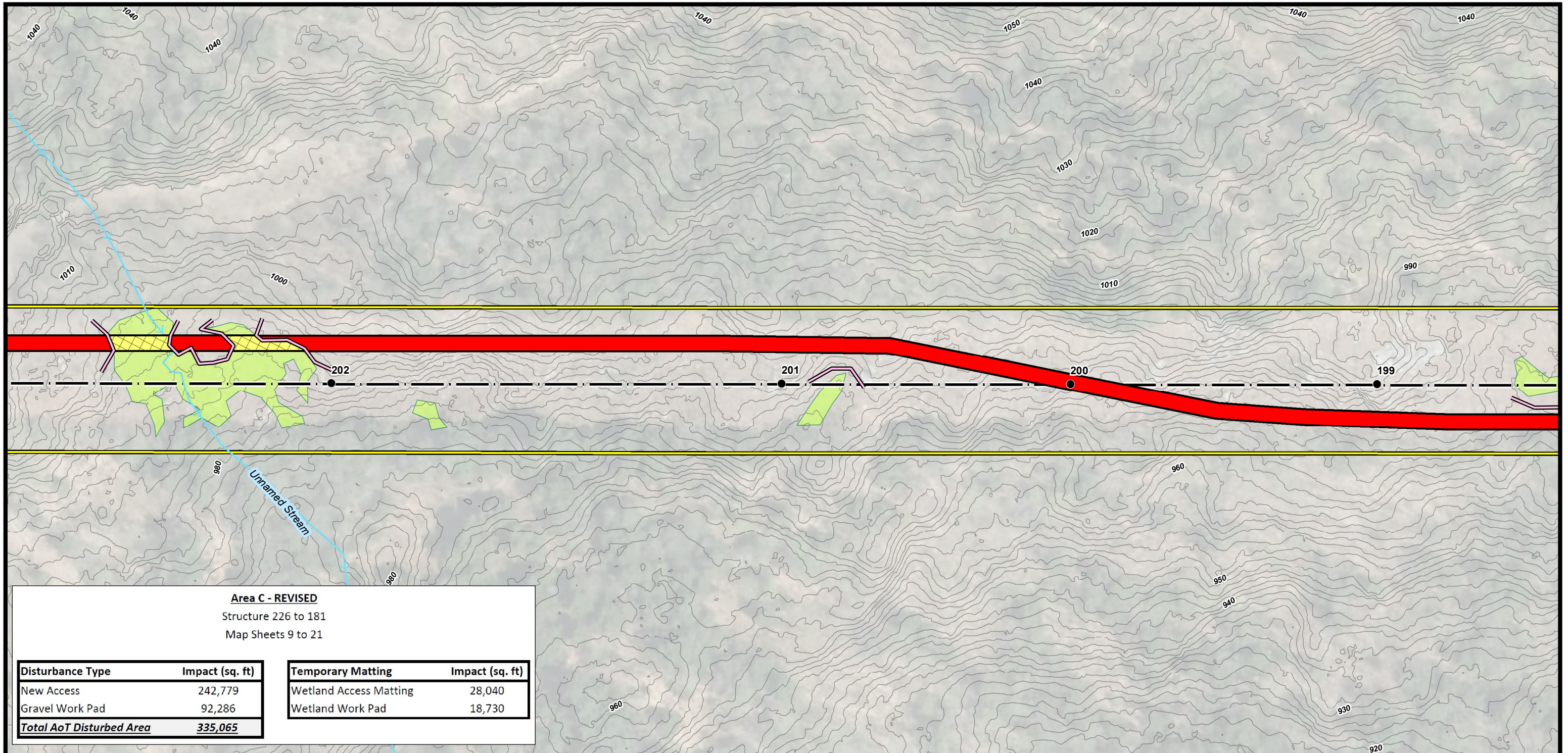
SUNAPEE, SPRINGFIELD, NEW LONDON, ANDOVER, & FRANKLIN
NEW HAMPSHIRE
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Project No.: 04.0190923.09

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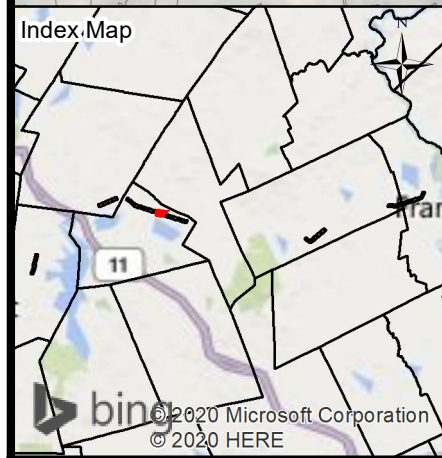
1 inch = 100 feet



Area C - REVISED
 Structure 226 to 181
 Map Sheets 9 to 21

Disturbance Type	Impact (sq. ft)
New Access	242,779
Gravel Work Pad	92,286
Total AoT Disturbed Area	335,065

Temporary Matting	Impact (sq. ft)
Wetland Access Matting	28,040
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0 50 100 200
 Feet

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ALTERATION OF TERRAIN PERMITTING PLANS - REVISED
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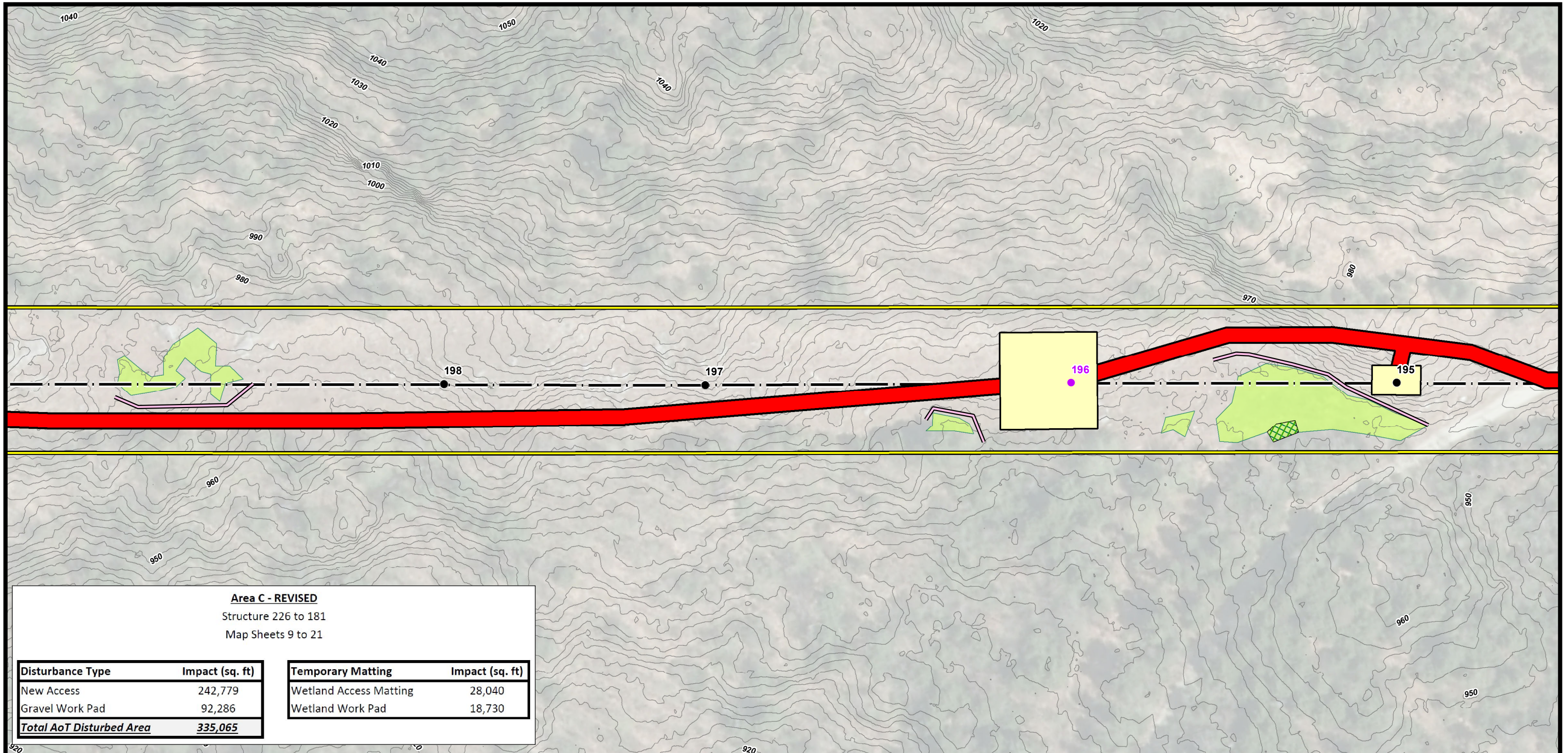
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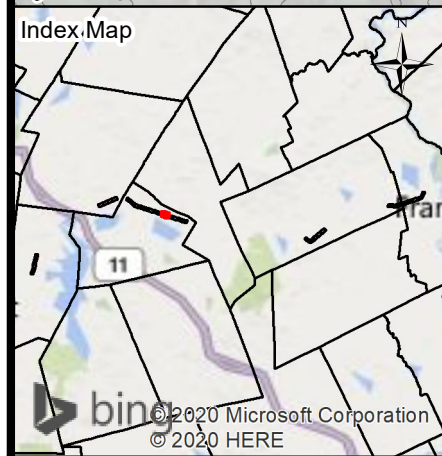
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Area C - REVISED
 Structure 226 to 181
 Map Sheets 9 to 21

Disturbance Type	Impact (sq. ft)
New Access	242,779
Gravel Work Pad	92,286
Total AoT Disturbed Area	335,065

Temporary Matting	Impact (sq. ft)
Wetland Access Matting	28,040
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0 50 100 200
 Feet

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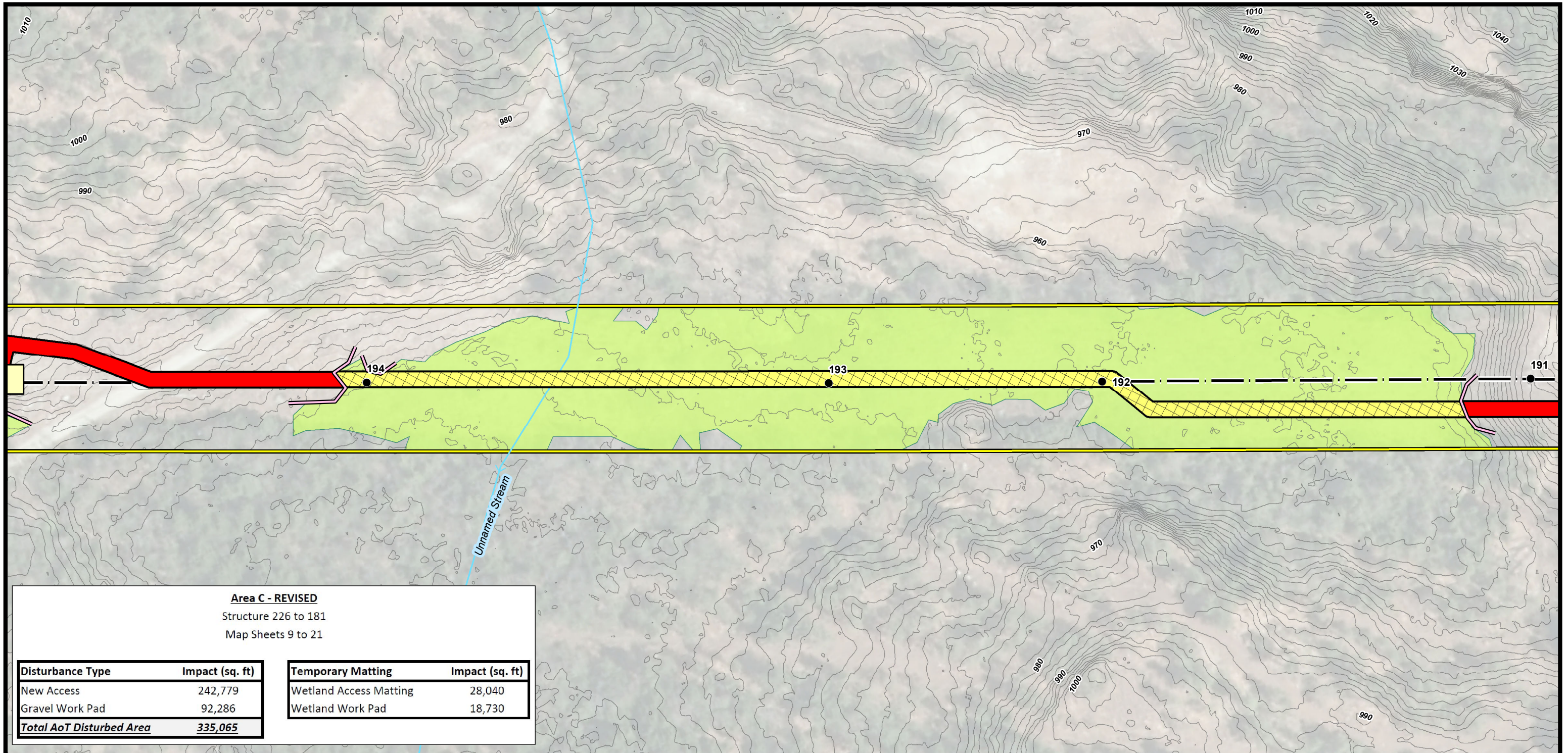
SUNAPEE, SPRINGFIELD, NEW LONDON, ANDOVER, & FRANKLIN
 NEW HAMPSHIRE
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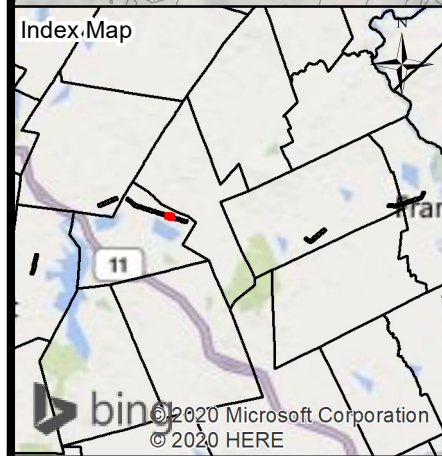


Area C - REVISED

Structure 226 to 181
Map Sheets 9 to 21

Disturbance Type	Impact (sq. ft)
New Access	242,779
Gravel Work Pad	92,286
Total AoT Disturbed Area	335,065

Temporary Matting	Impact (sq. ft)
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0 50 100 200
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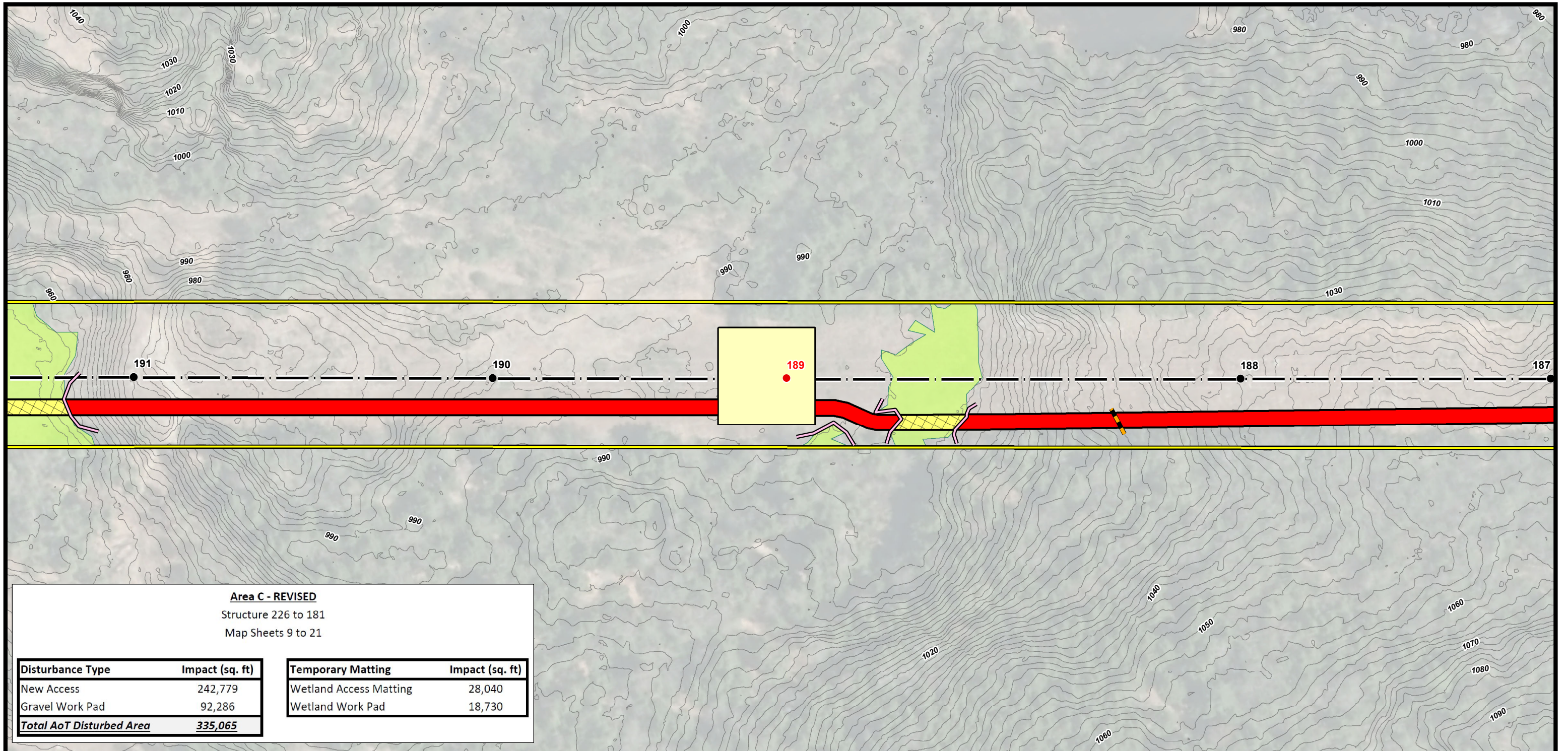
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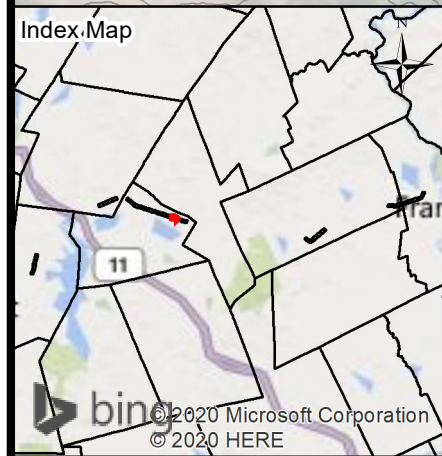


Area C - REVISED

Structure 226 to 181
Map Sheets 9 to 21

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New Access	242,779
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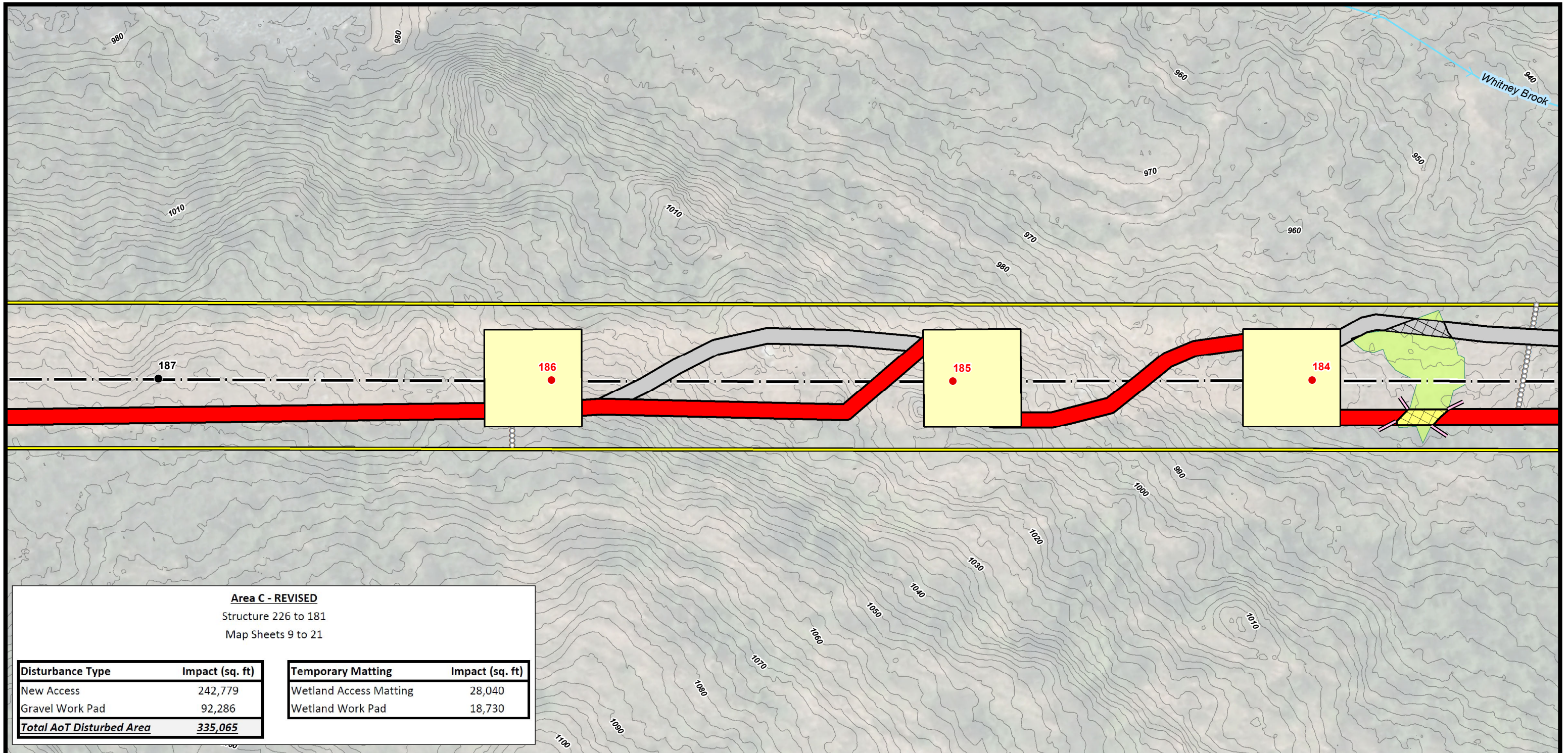
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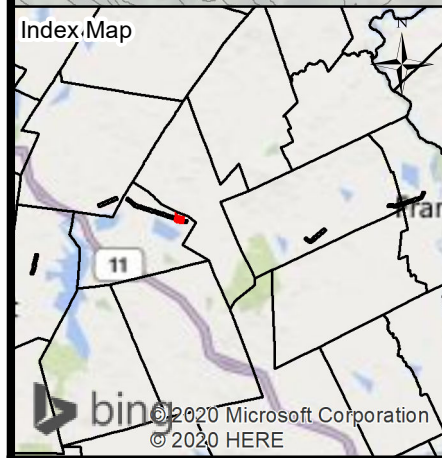
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Area C - REVISED
Structure 226 to 181
Map Sheets 9 to 21

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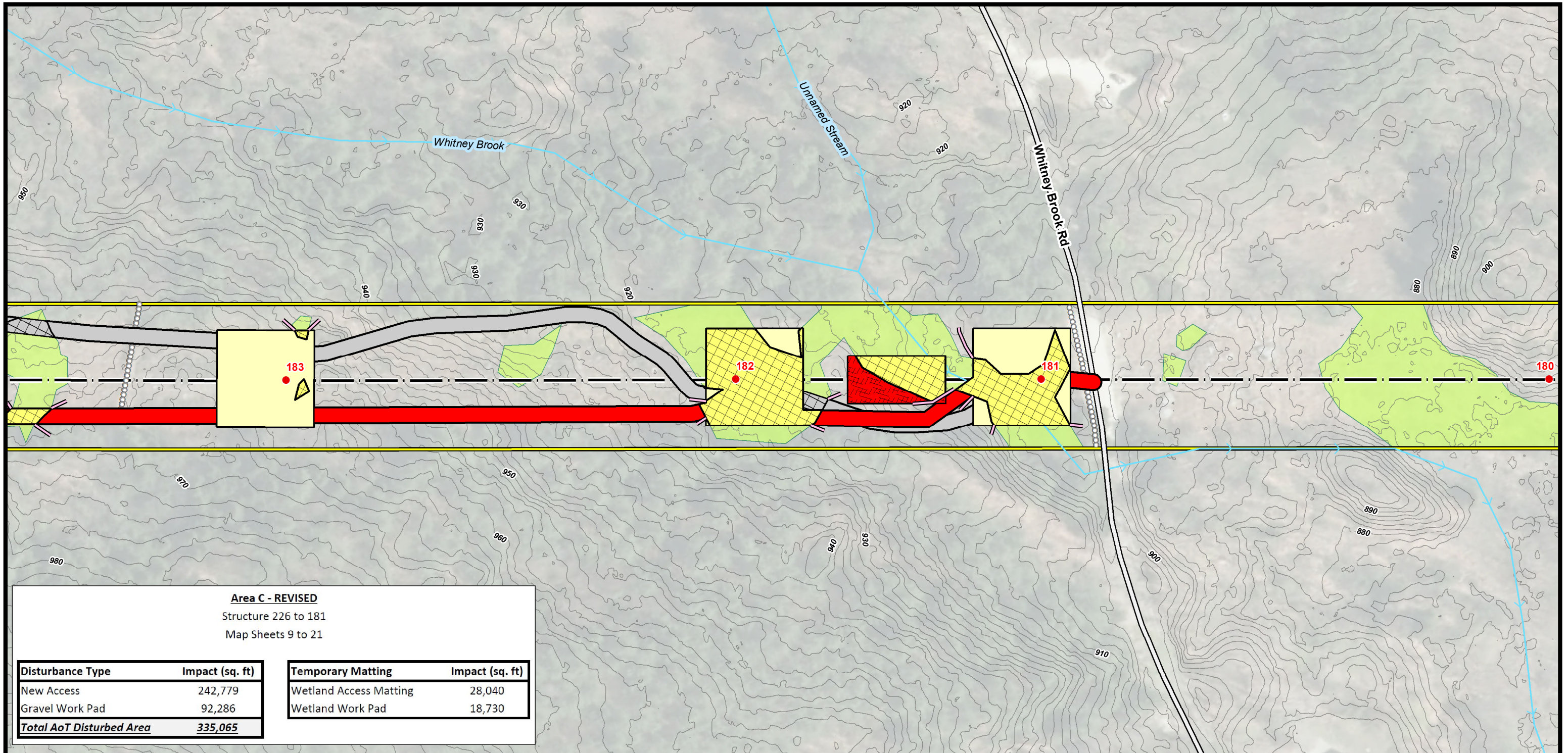
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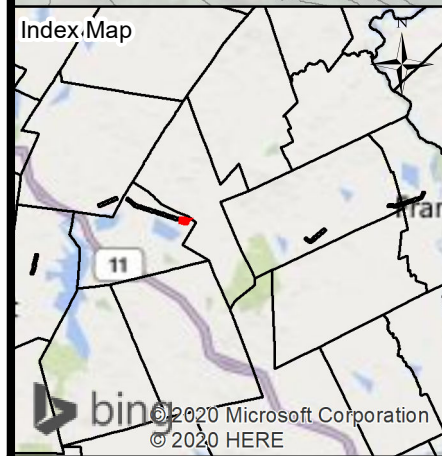
1 inch = 100 feet



Area C - REVISED
 Structure 226 to 181
 Map Sheets 9 to 21

Disturbance Type	Impact (sq. ft)
New Access	242,779
Gravel Work Pad	92,286
Total AoT Disturbed Area	335,065

Temporary Matting	Impact (sq. ft)
Wetland Access Matting	28,040
Wetland Work Pad	18,730



Sunapee ← **Current Town: New London** → **Franklin**

- EXISTING STRUCTURE - NO PROPOSED WORK
- EXISTING STRUCTURE - TO BE REMOVED
- EXISTING STRUCTURE - TO BE REPLACED
- EXISTING STRUCTURE - FIBER REPLACE
- SRAW WATTLE
- WATER BAR
- ACCESS
- STONEWALL
- TEMPORARY WETLAND IMPACT
- ORIGINAL TEMPORARY WETLAND IMPACTS
- AoT DISTURBANCE AREA
- ORIGINAL AoT DISTURBANCE AREA
- AoT DISTURBANCE AREA - PULL PAD LOCATION
- EXISTING-IMPROVED ACCESS
- WETLAND
- TRANSMISSION LINE
- DOT ROADS
- NHD FLOWLINE
- APPROXIMATE ROW
- SHORELAND ZONE
- TOWN BOUNDARY
- POTENTIAL VERNAL POOL
- FENCE
- GATE
- 2FT ELEVATION CONTOURS
- UPLAND MATTING
- WORK PAD

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0 50 100 200
 Feet

M127 STRUCTURE REPLACEMENT PROJECT

ALTERATION OF TERRAIN PERMITTING PLANS - REVISED
 August 11, 2020

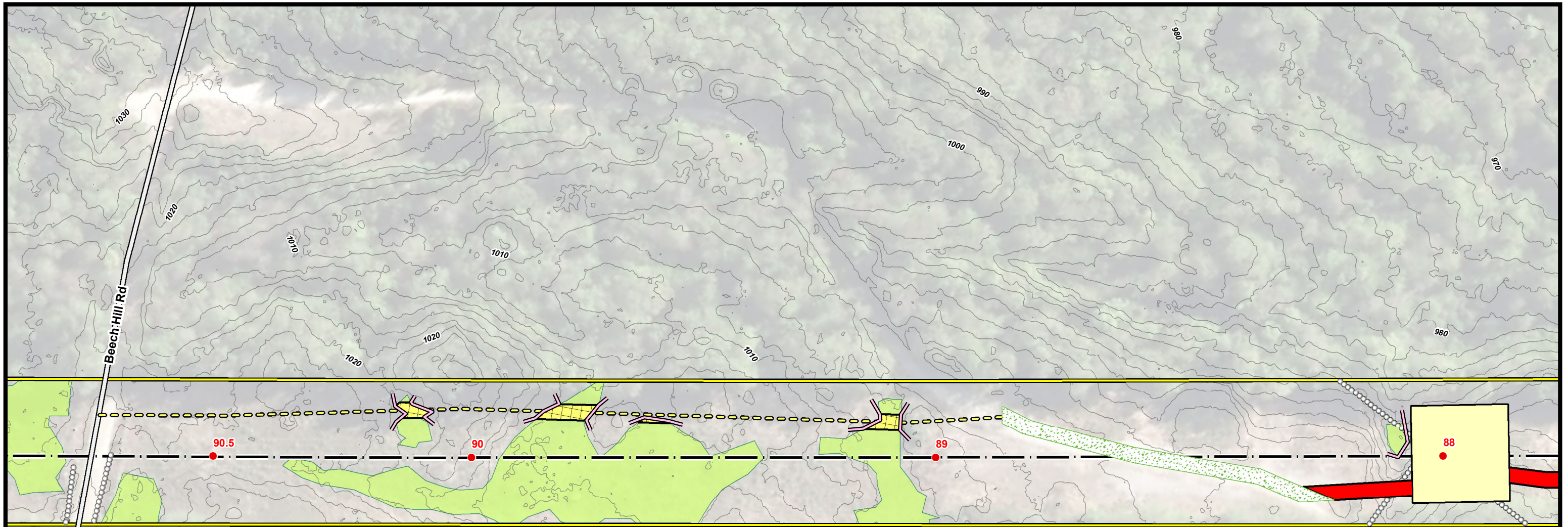
SUNAPEE, SPRINGFIELD, NEW LONDON, ANDOVER, & FRANKLIN
 NEW HAMPSHIRE
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Project No.: 04.0190923.09 1 inch = 100 feet

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AoT Plans Revision Area D

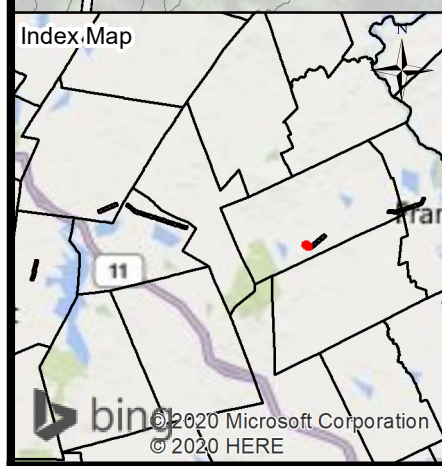


**STRUCTURES 90.5, 90, AND 89 TO BE REPLACED,
BUT DO NOT EXCEED AOT THRESHOLDS**

Area D - REVISED
Structure 89 to 77
Map Sheets 22 to 26

Disturbance Type	Impact (sq. ft)
New Access	72,603
Gravel Work Pad	46,450
Total AoT Disturbed Area	119,053

Temporary Matting	Impact (sq. ft)
Wetland Access Matting	9,201
Wetland Work Pad	2,414



← Sunapee Current Town: Andover Franklin →

● EXISTING STRUCTURE - NO PROPOSED WORK	■ WETLAND
● EXISTING STRUCTURE - TO BE REMOVED	— TRANSMISSION LINE
● EXISTING STRUCTURE - TO BE REPLACED	— DOT ROADS
● EXISTING STRUCTURE - FIBER REPLACE	→ NHD FLOWLINE
— SRAW WATTLE	— APPROXIMATE ROW
— WATER BAR	— SHORELAND ZONE
— ACCESS	— TOWN BOUNDARY
— STONEWALL	— POTENTIAL VERNAL POOL
— TEMPORARY WETLAND IMPACT	— FENCE
— ORIGINAL TEMPORARY WETLAND IMPACTS	— GATE
— AoT DISTURBANCE AREA	— 2FT ELEVATION CONTOURS
— ORIGINAL AoT DISTURBANCE AREA	— UPLAND MATTING
— AoT DISTURBANCE AREA - PULL PAD LOCATION	— WORK PAD
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0 50 100 200
Feet

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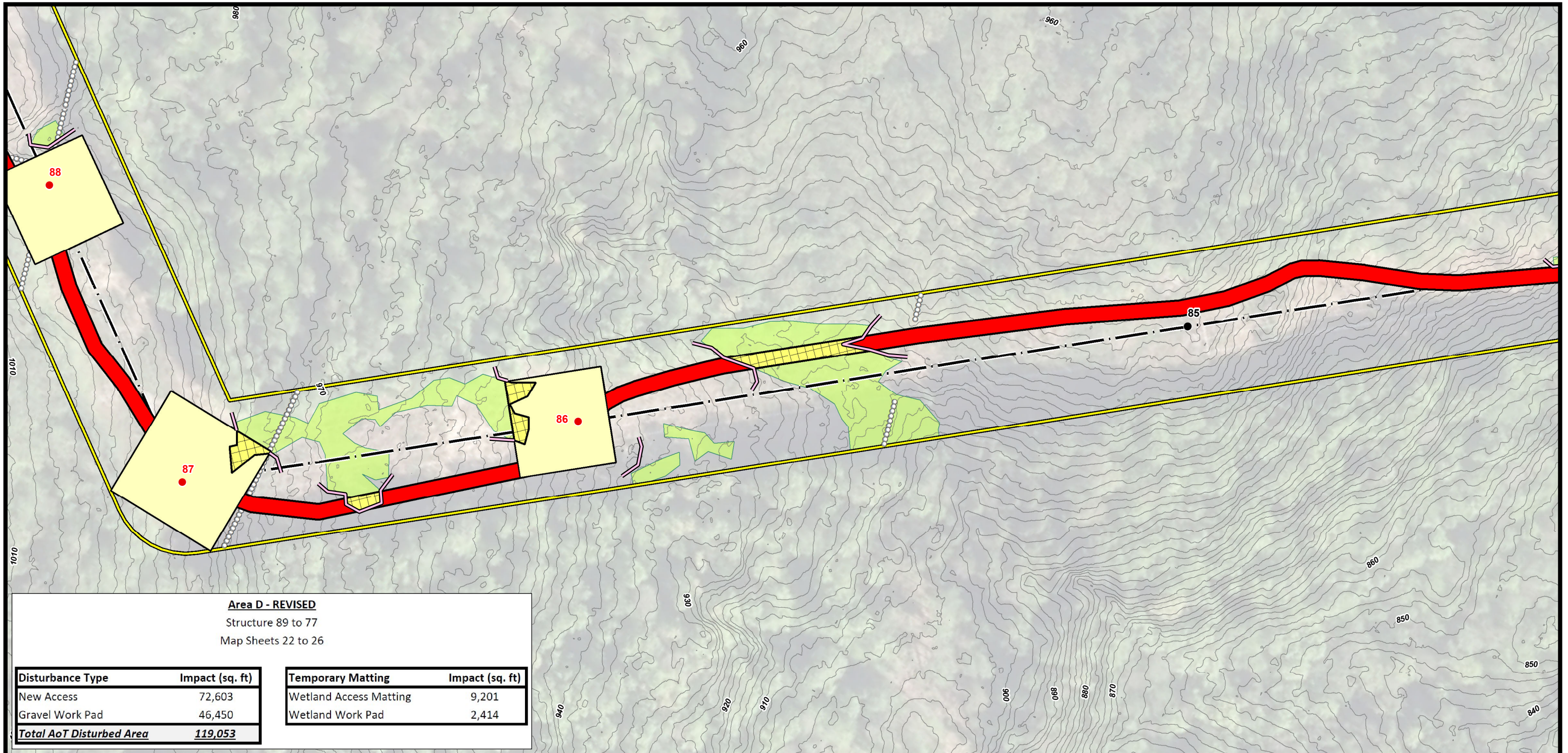
SUNAPEE, SPRINGFIELD, NEW LONDON, ANDOVER, & FRANKLIN
NEW HAMPSHIRE
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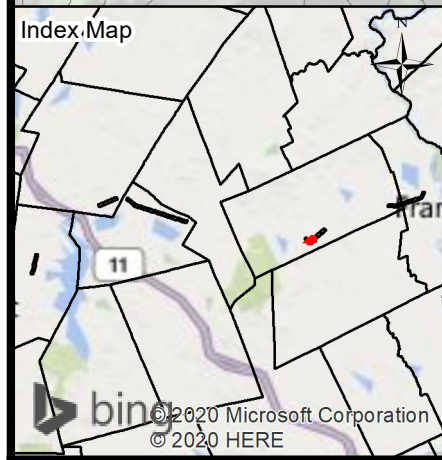
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Area D - REVISED
 Structure 89 to 77
 Map Sheets 22 to 26

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 Feet

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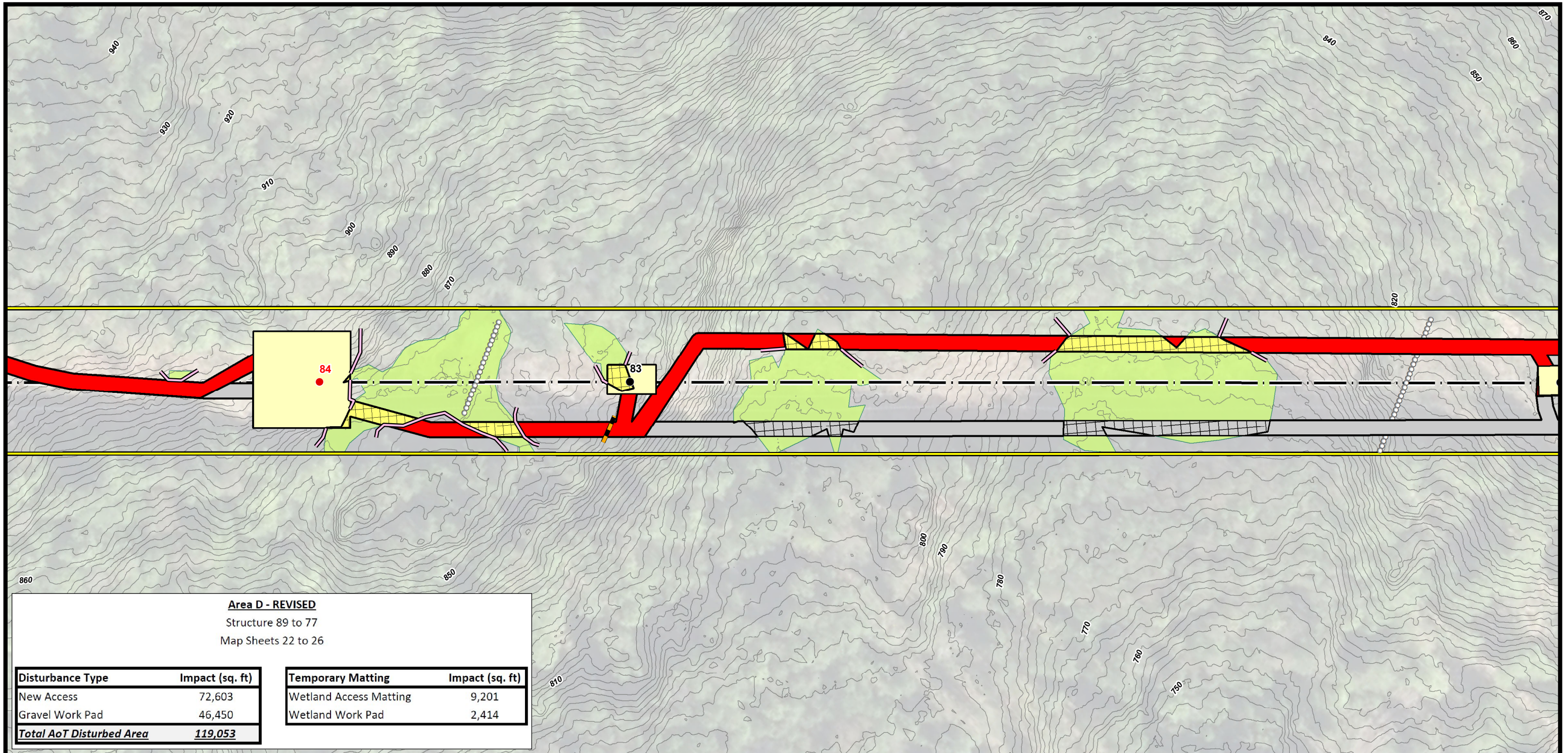
ALTERATION OF TERRAIN PERMITTING PLANS - REVISED
 August 11, 2020

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 NEW HAMPSHIRE
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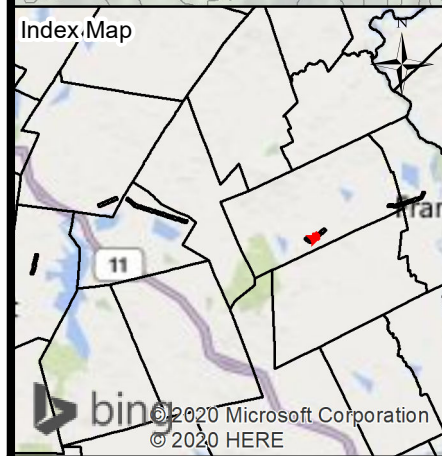
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Area D - REVISED
 Structure 89 to 77
 Map Sheets 22 to 26

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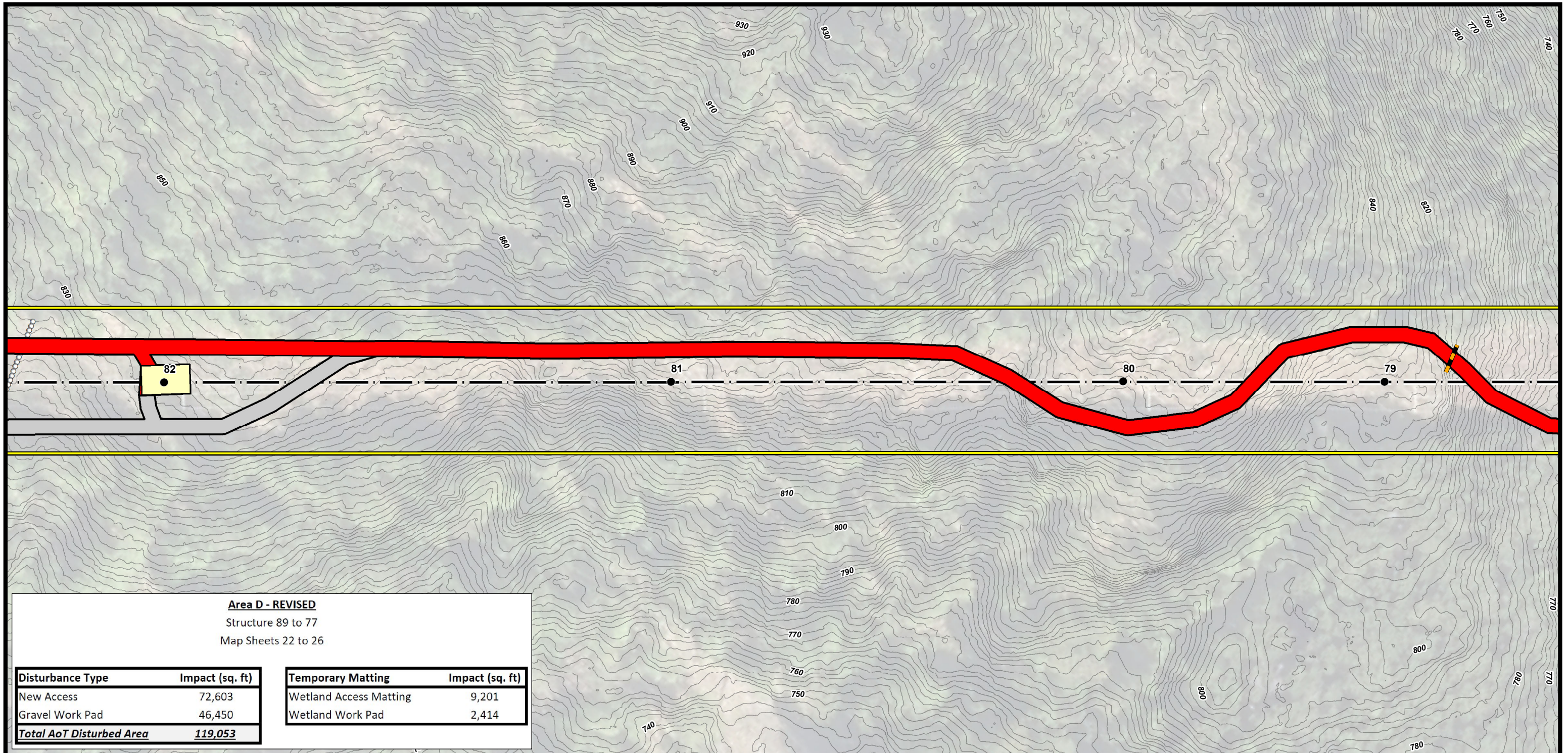
SUNAPEE, SPRINGFIELD, NEW LONDON, ANDOVER, & FRANKLIN
 NEW HAMPSHIRE
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Project No.: 04.0190923.09

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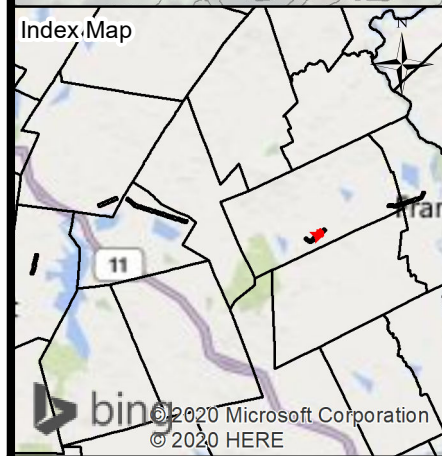


Area D - REVISED

Structure 89 to 77
Map Sheets 22 to 26

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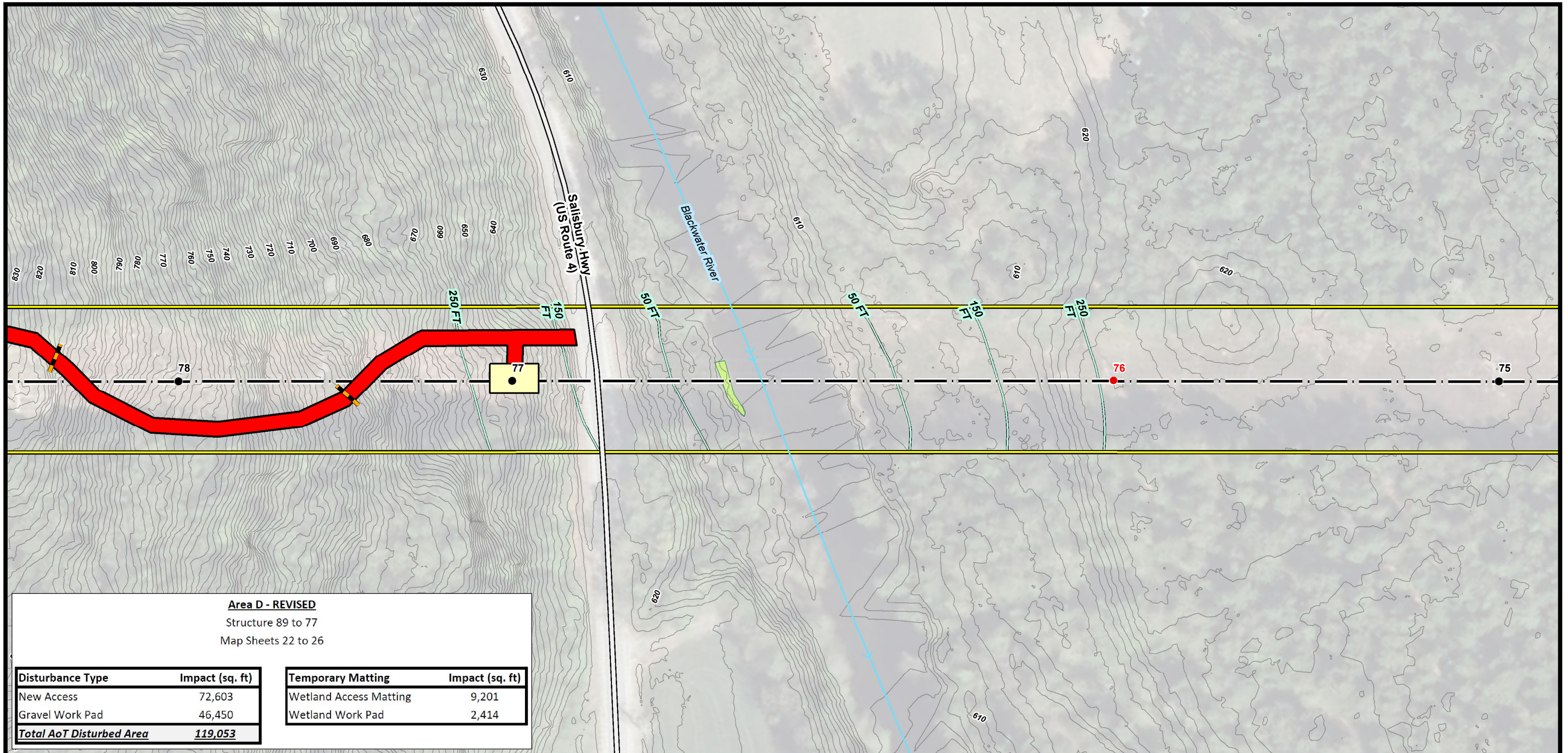
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ALTERATION OF TERRAIN PERMITTING PLANS - REVISED
August 11, 2020

SUNAPEE, SPRINGFIELD, NEW LONDON, ANDOVER, & FRANKLIN
NEW HAMPSHIRE
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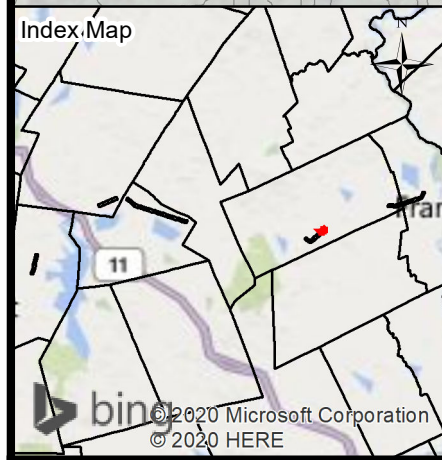




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0 50 100 200
 Feet

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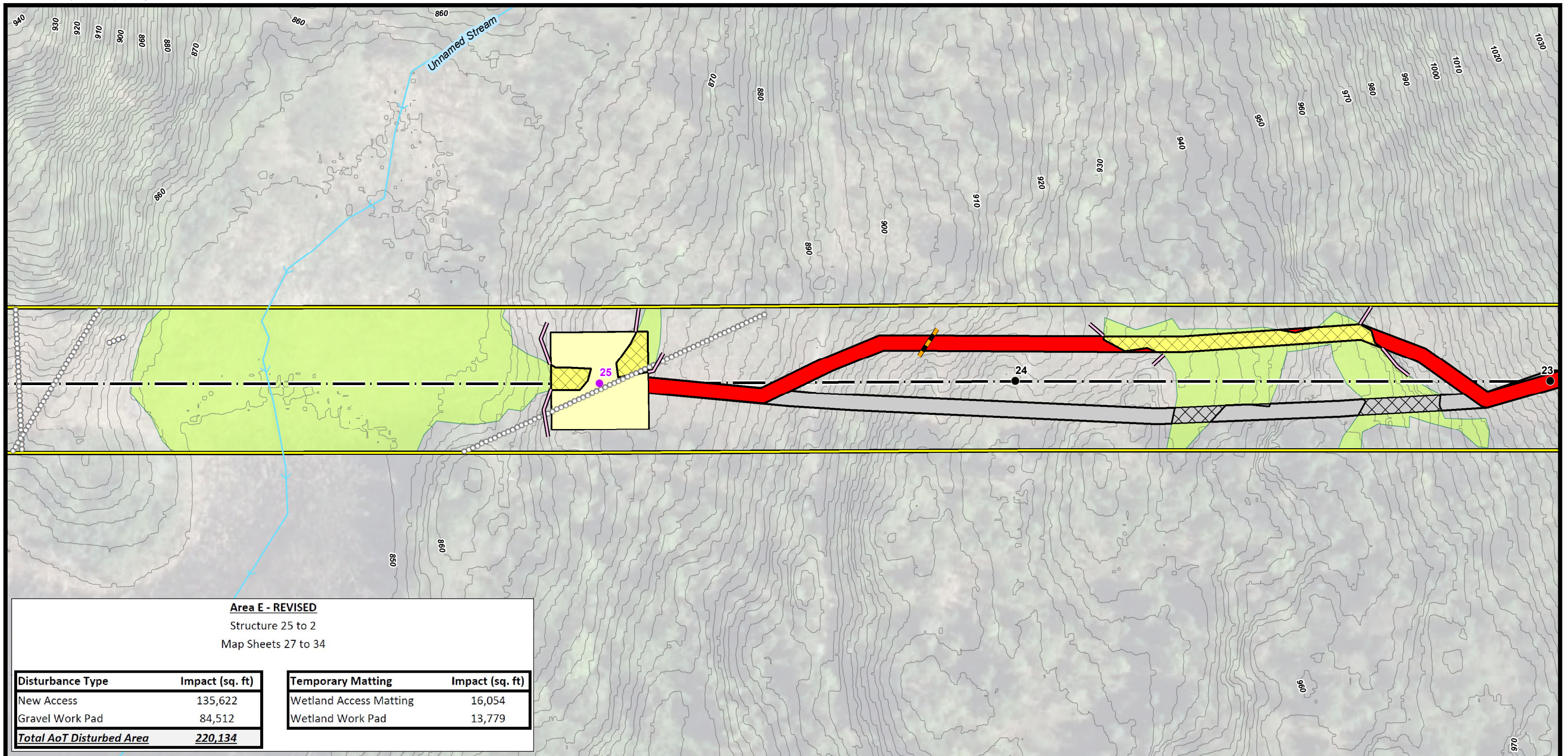
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 NEW HAMPSHIRE
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Project No.: 04.0190923.09 1 inch = 100 feet

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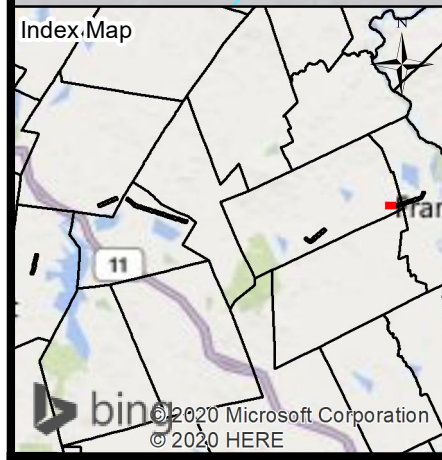
AoT Plans Revision Area E



Area E - REVISED
 Structure 25 to 2
 Map Sheets 27 to 34

Disturbance Type	Impact (sq. ft)
New Access	135,622
Gravel Work Pad	84,512
Total AoT Disturbed Area	220,134

Temporary Matting	Impact (sq. ft)
Wetland Access Matting	16,054
Wetland Work Pad	13,779



Sunapee ← **Current Town: Andover** → **Franklin**

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0 50 100 200 Feet

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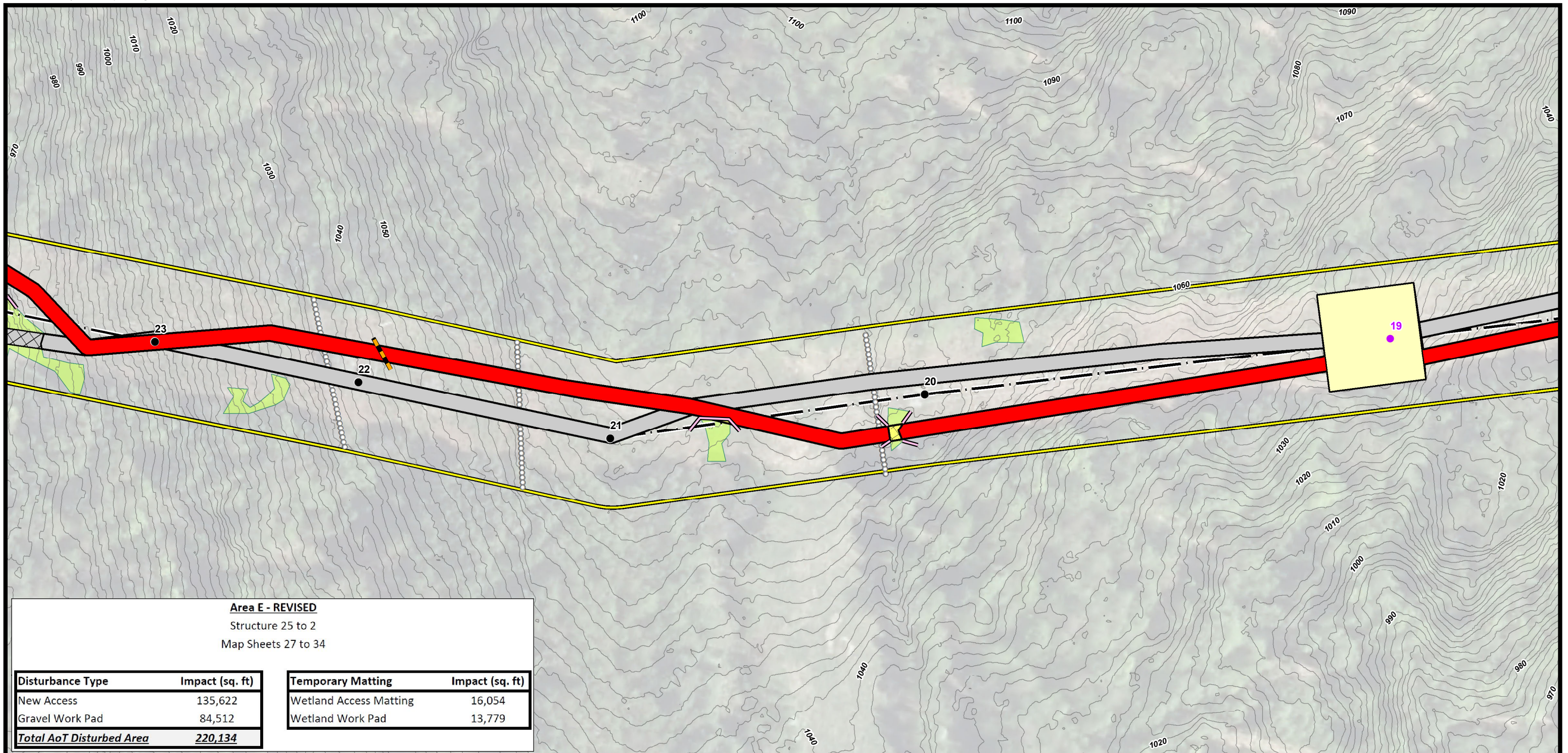
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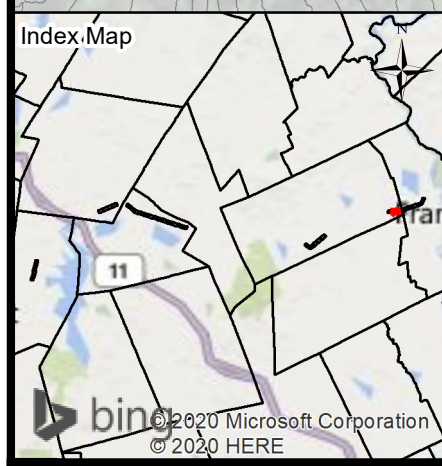
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Area E - REVISED
 Structure 25 to 2
 Map Sheets 27 to 34

Disturbance Type	Impact (sq. ft)
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Gravel Work Pad	84,512
Total AoT Disturbed Area	220,134

Temporary Matting	Impact (sq. ft)
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- ORIGINAL AoT DISTURBANCE AREA
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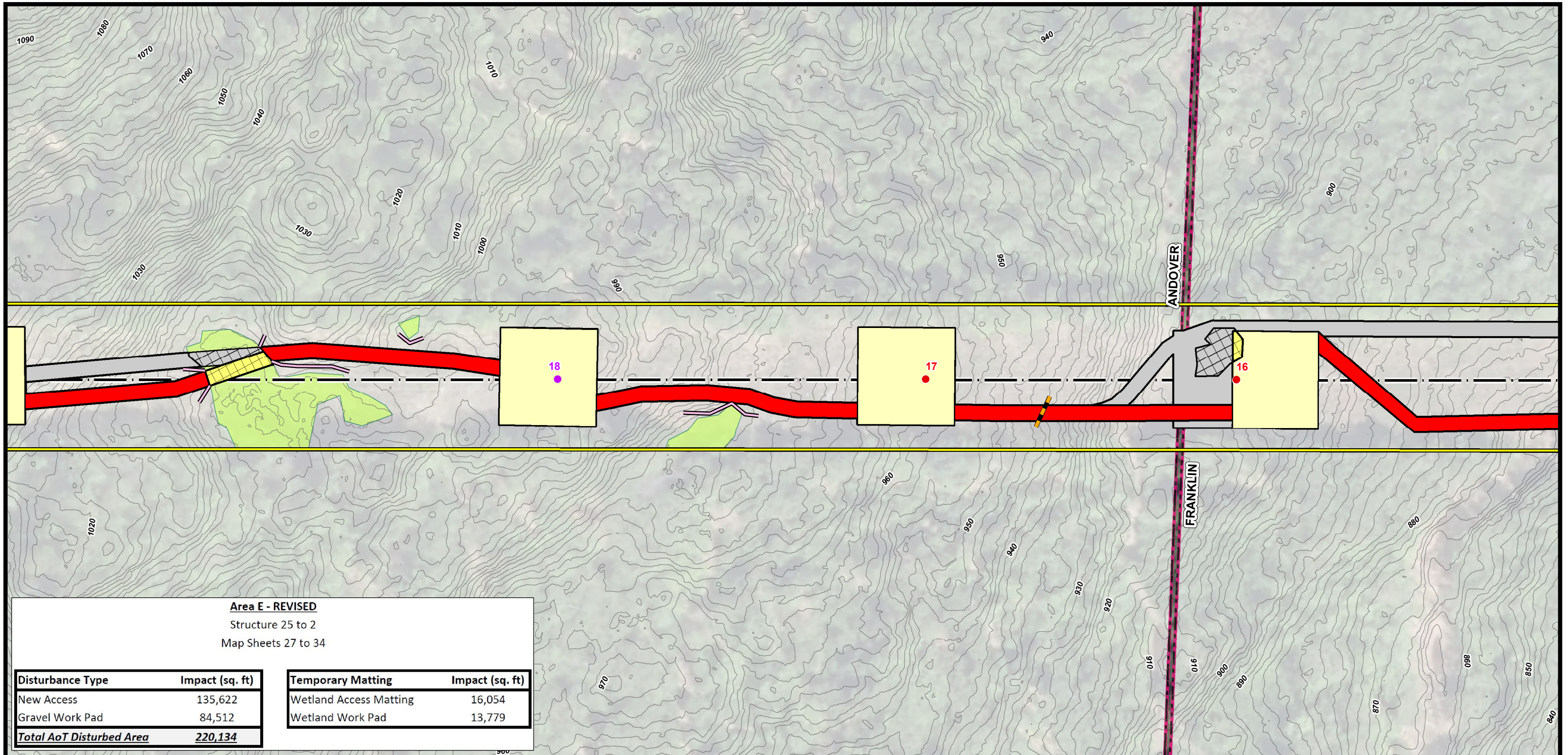
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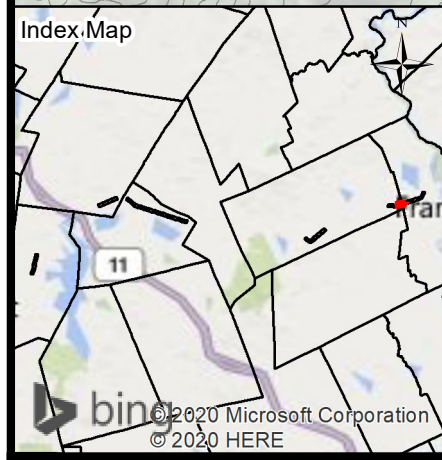
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Area E - REVISED
 Structure 25 to 2
 Map Sheets 27 to 34

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- AoT DISTURBANCE AREA
- ORIGINAL AoT DISTURBANCE AREA
- AoT DISTURBANCE AREA - PULL PAD LOCATION
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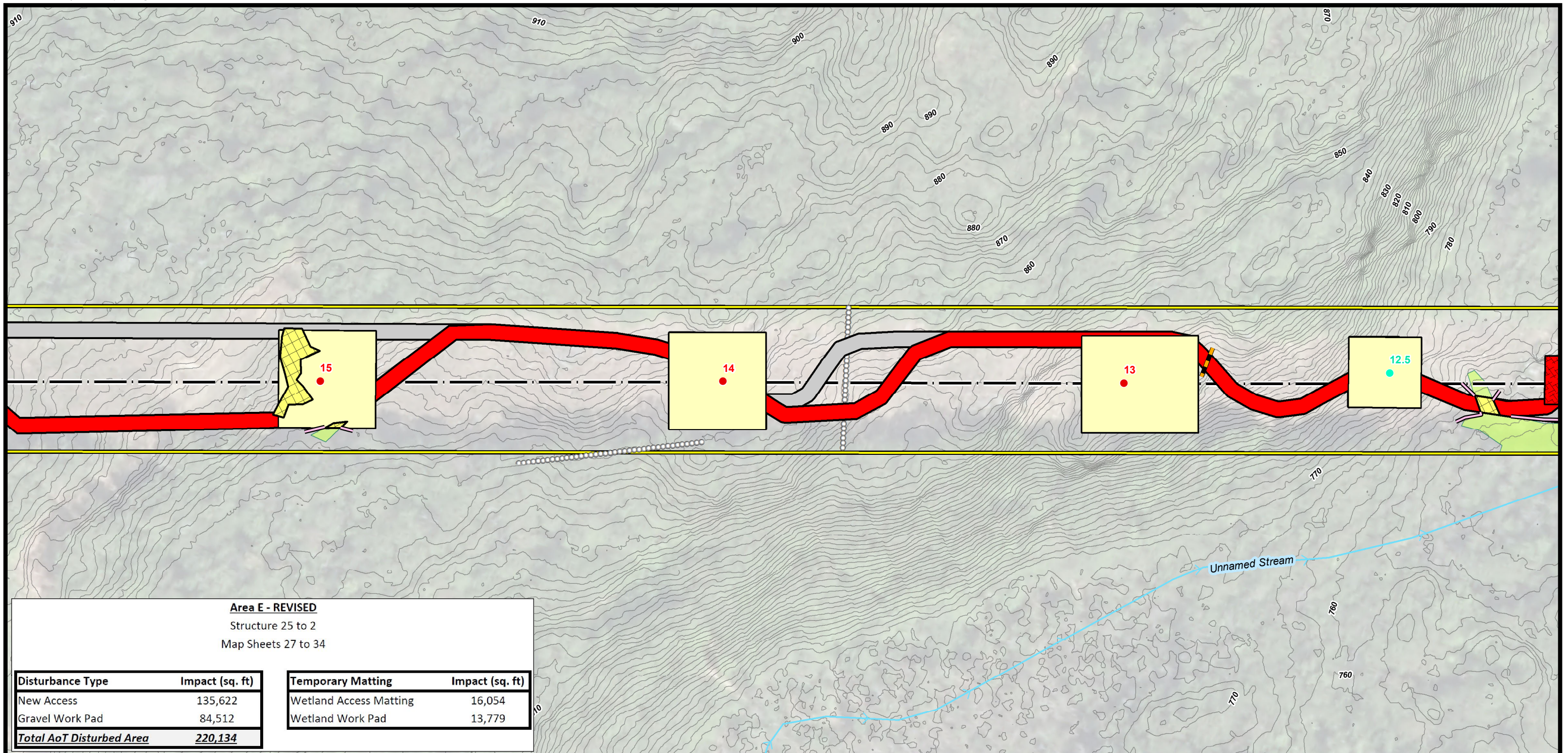
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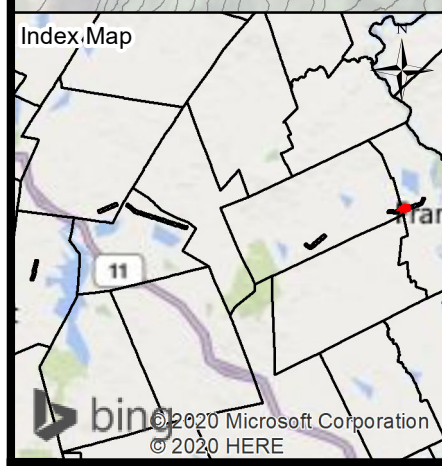
1 inch = 100 feet



Area E - REVISED
 Structure 25 to 2
 Map Sheets 27 to 34

Disturbance Type	Impact (sq. ft)
New Access	135,622
Gravel Work Pad	84,512
Total AoT Disturbed Area	220,134

Temporary Matting	Impact (sq. ft)
Wetland Access Matting	16,054
Wetland Work Pad	13,779



← Sunapee Current Town: Franklin Franklin →

● EXISTING STRUCTURE - NO PROPOSED WORK	■ WETLAND
● EXISTING STRUCTURE - TO BE REMOVED	— TRANSMISSION LINE
● EXISTING STRUCTURE - TO BE REPLACED	— DOT ROADS
● EXISTING STRUCTURE - FIBER REPLACE	→ NHD FLOWLINE
— SRAW WATTLE	— APPROXIMATE ROW
— WATER BAR	— SHORELAND ZONE
— ACCESS	— TOWN BOUNDARY
○ STONEWALL	■ POTENTIAL VERNAL POOL
■ TEMPORARY WETLAND IMPACT	— FENCE
■ ORIGINAL TEMPORARY WETLAND IMPACTS	— GATE
■ AoT DISTURBANCE AREA	— 2FT ELEVATION CONTOURS
■ ORIGINAL AoT DISTURBANCE AREA	■ UPLAND MATTING
■ AoT DISTURBANCE AREA - PULL PAD LOCATION	■ WORK PAD
■ EXISTING-IMPROVED ACCESS	

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0 50 100 200
 Feet

M127 STRUCTURE REPLACEMENT PROJECT

ALTERATION OF TERRAIN PERMITTING PLANS - REVISED
 August 11, 2020

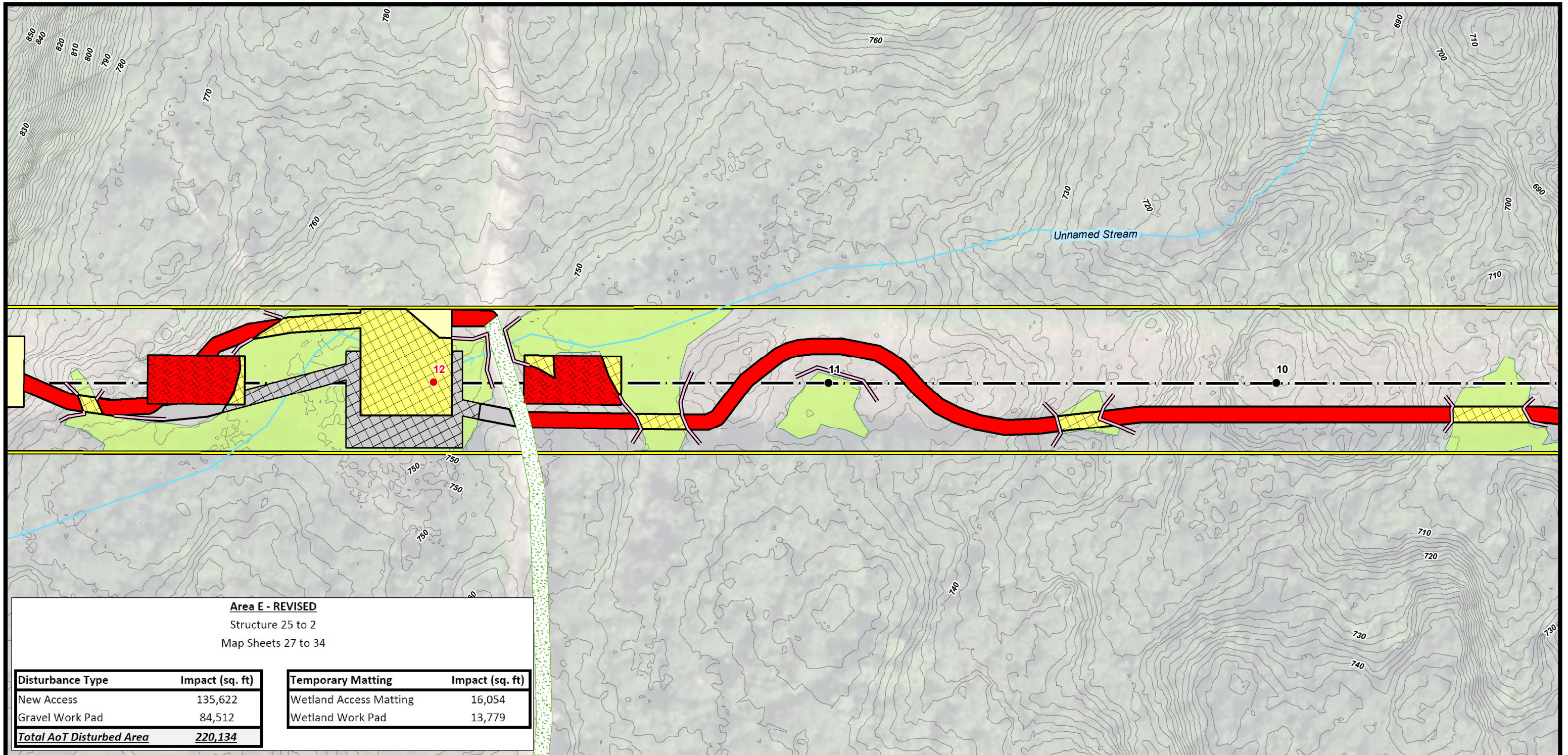
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 NEW HAMPSHIRE
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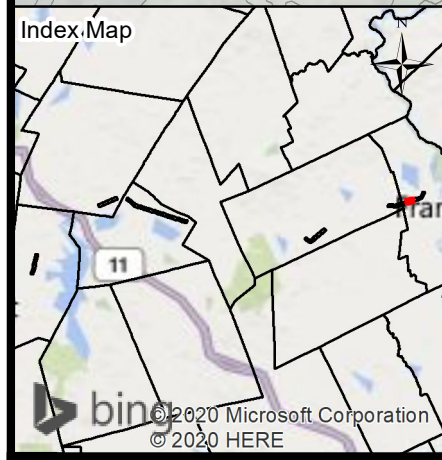
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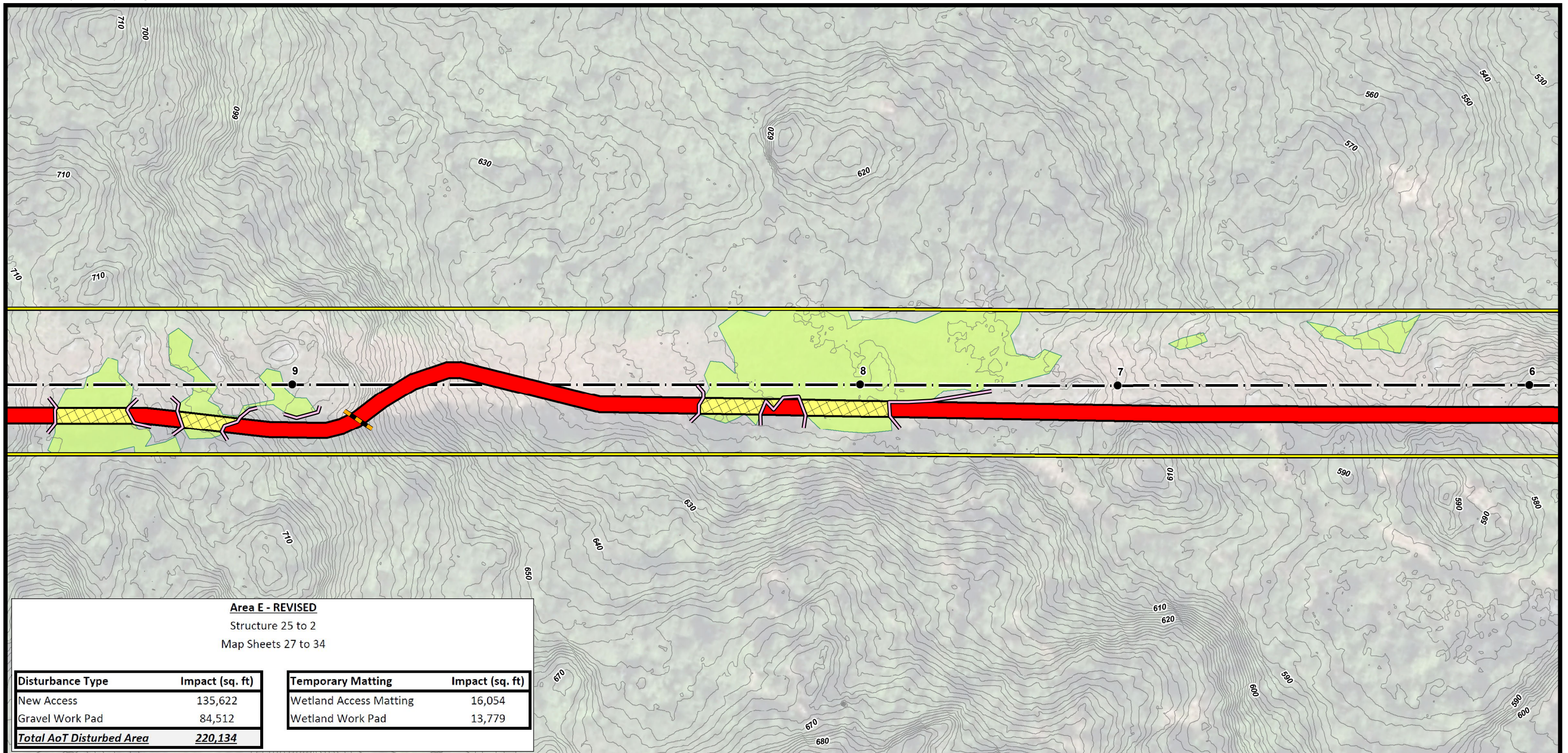
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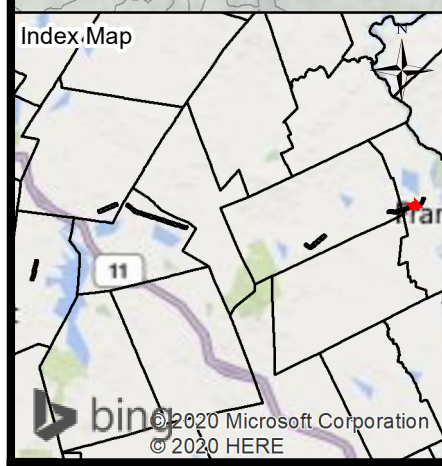
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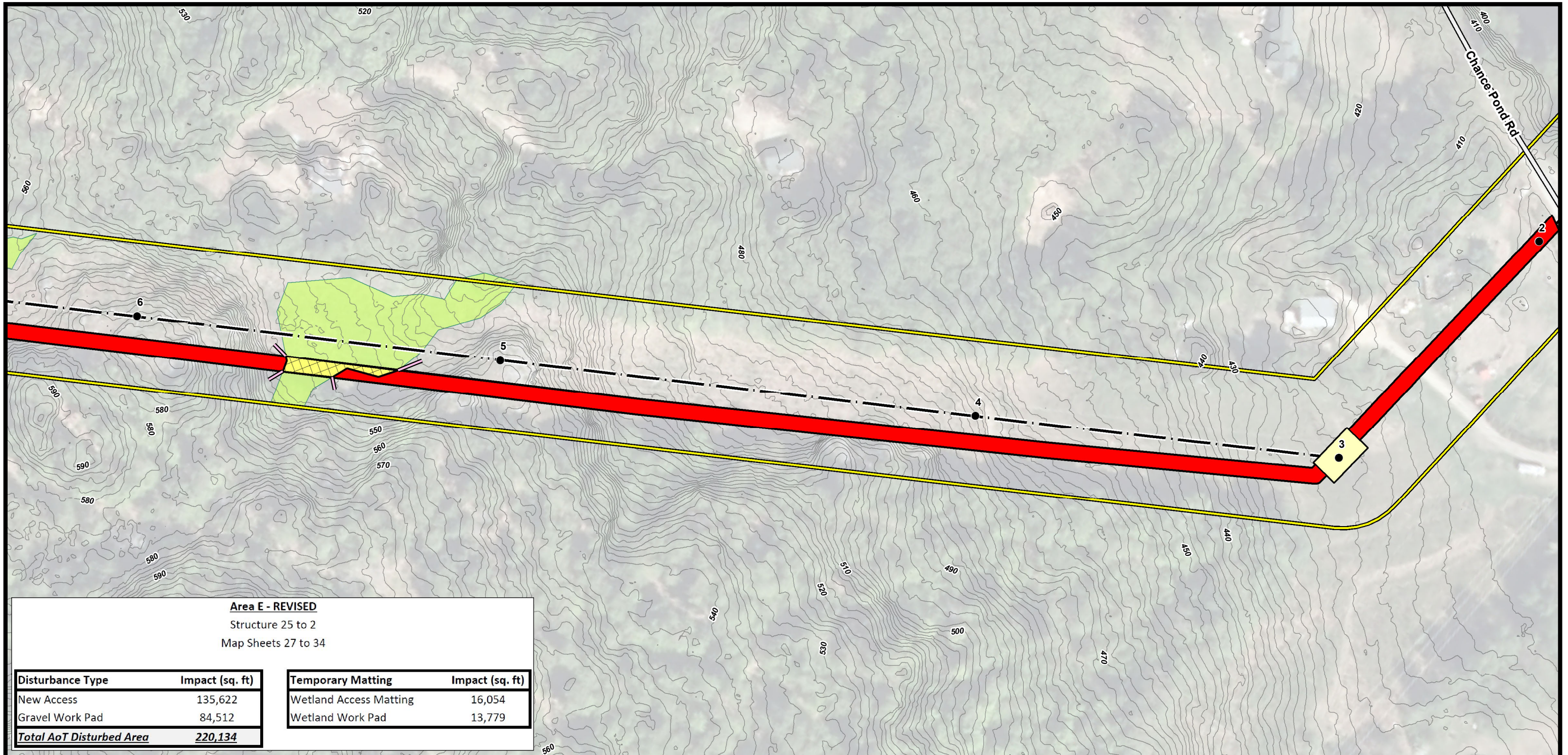
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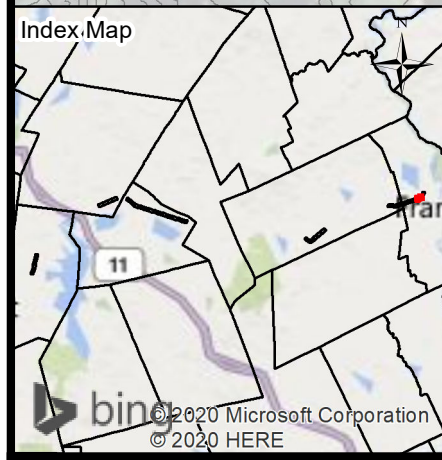
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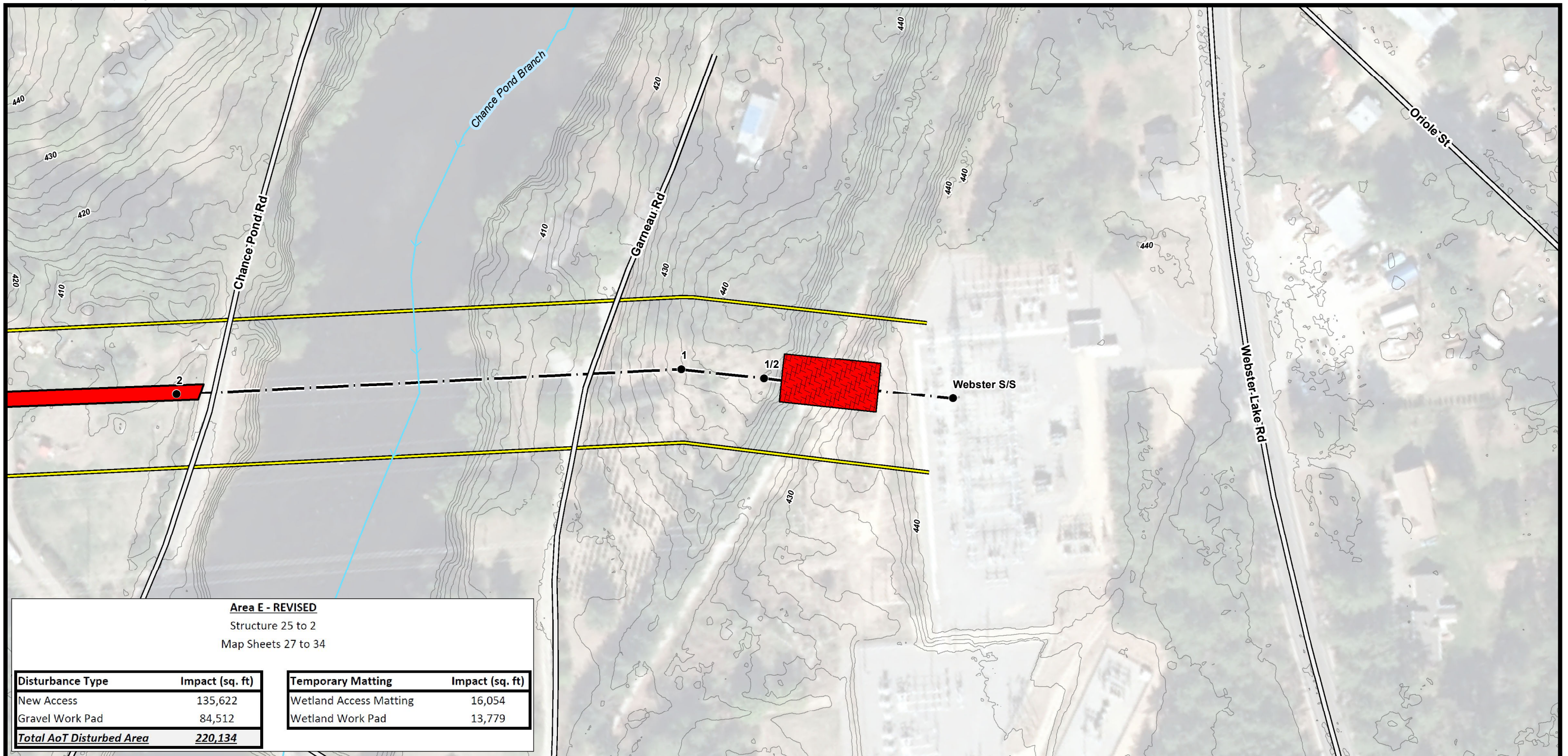
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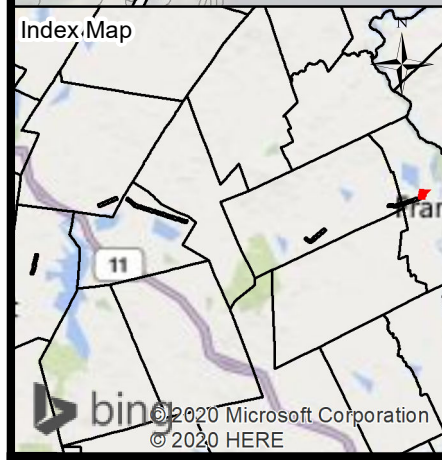
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