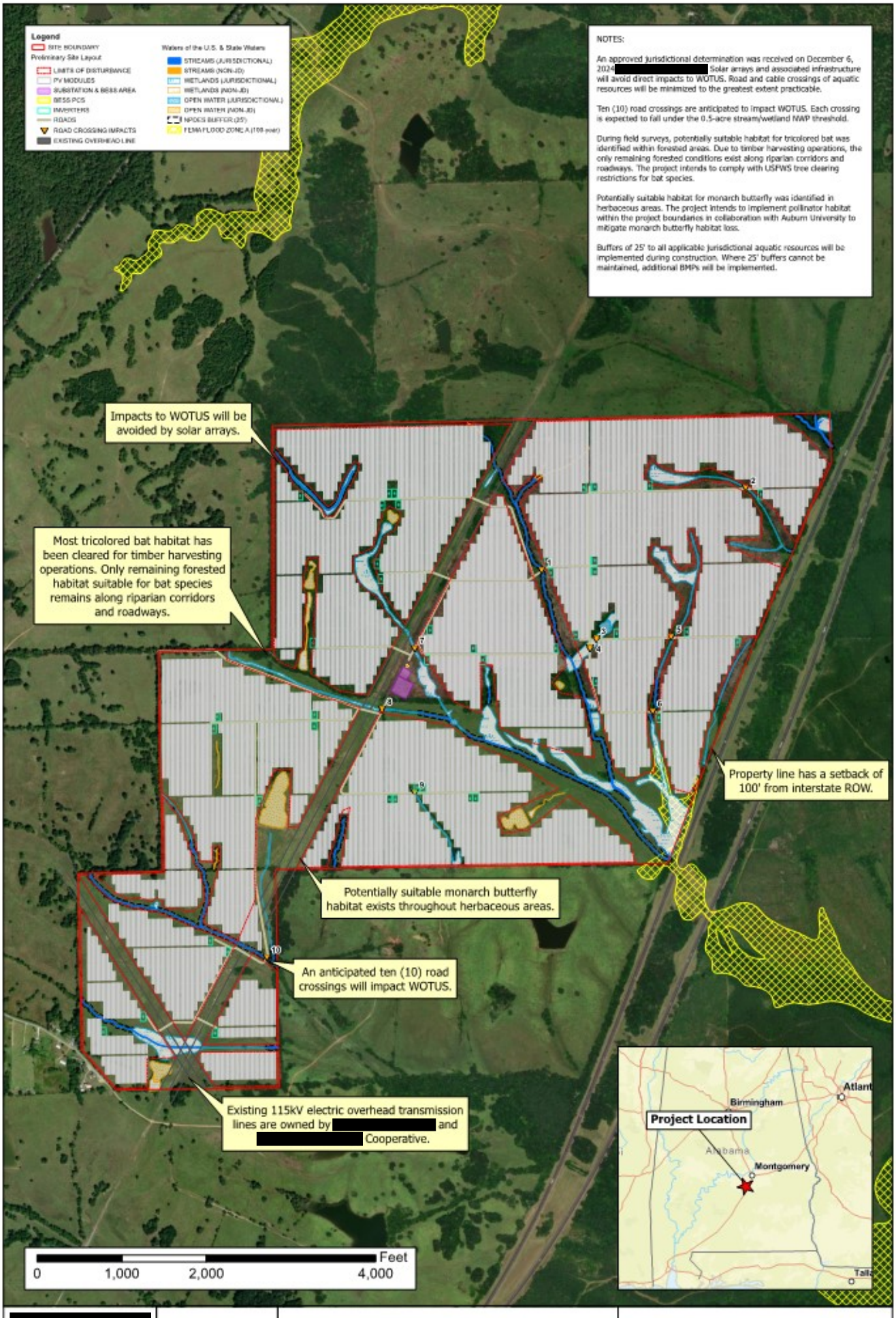
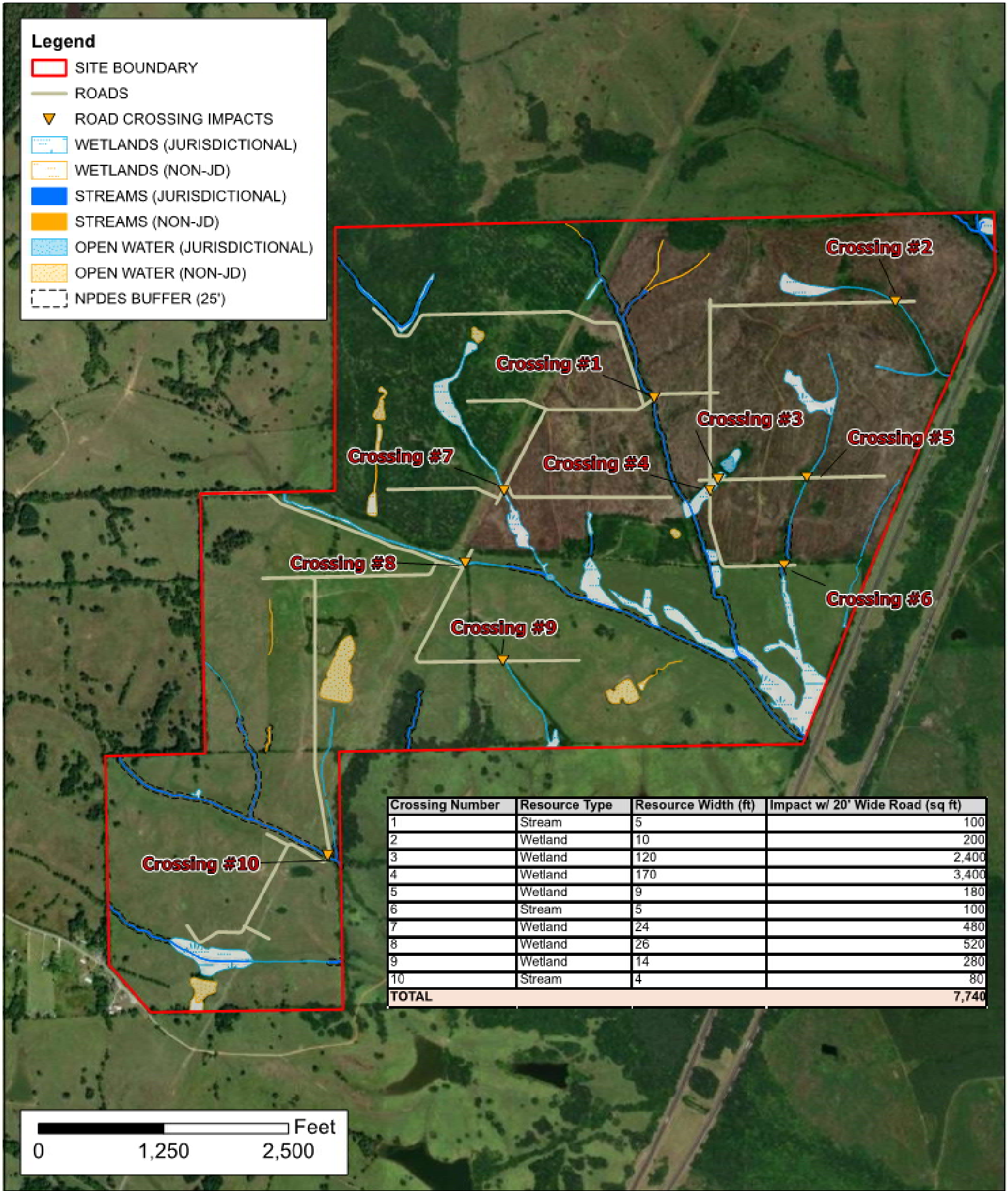
Environmental Constraints Mapping - Renewable Energy Development



[redacted]	**Environmental Constraints Map**	[redacted] **December 2024**	**1 inch = 1,000 feet**



Crossing Number	Resource Type	Resource Width (ft)	Impact w/ 20' Wide Road (sq ft)
1	Stream	5	100
2	Wetland	10	200
3	Wetland	120	2,400
4	Wetland	170	3,400
5	Wetland	9	180
6	Stream	5	100
7	Wetland	24	480
8	Wetland	26	520
9	Wetland	14	280
10	Stream	4	80
TOTAL			7,740

[redacted]

Road Crossing Impacts

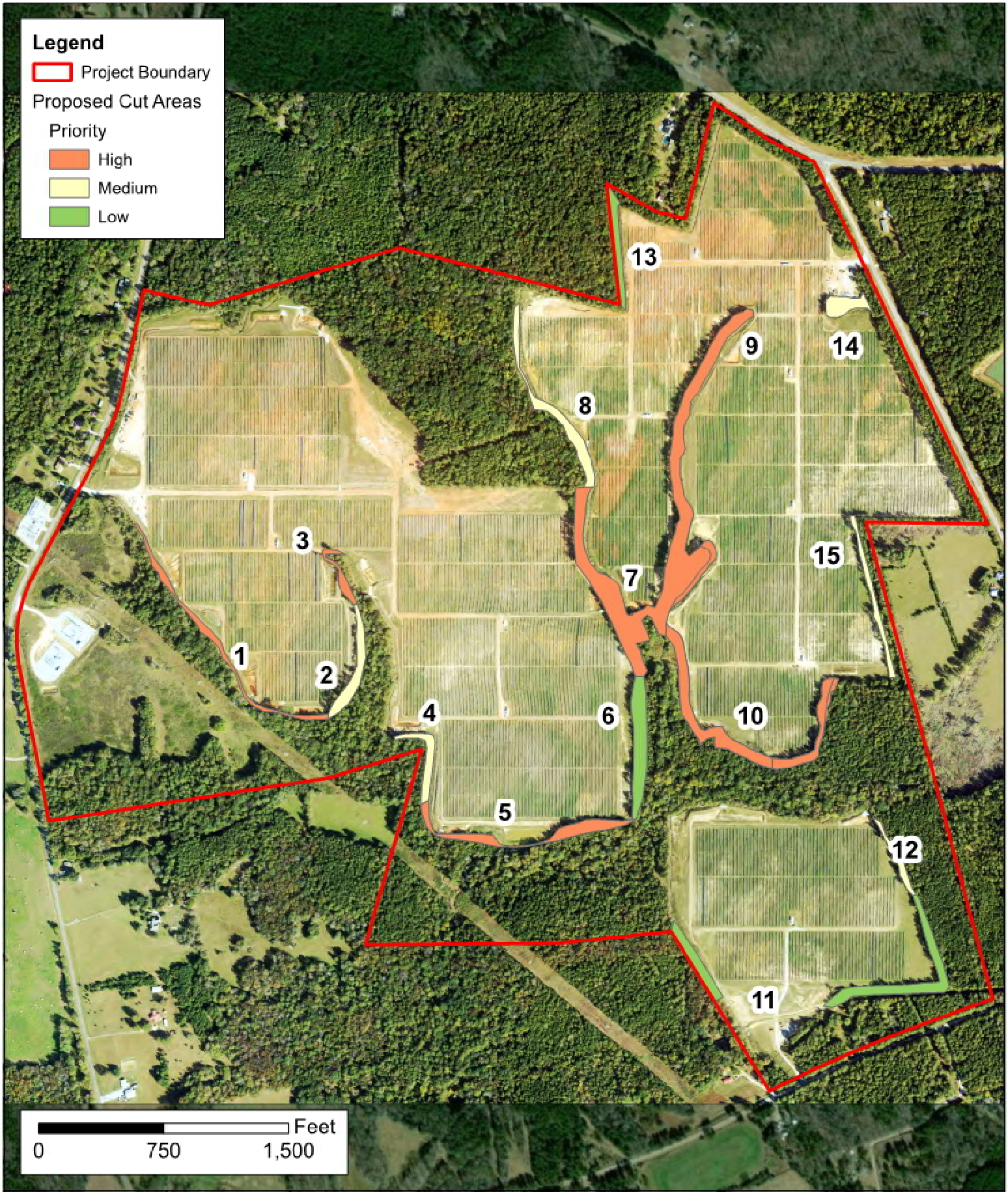
[redacted]

December 2024

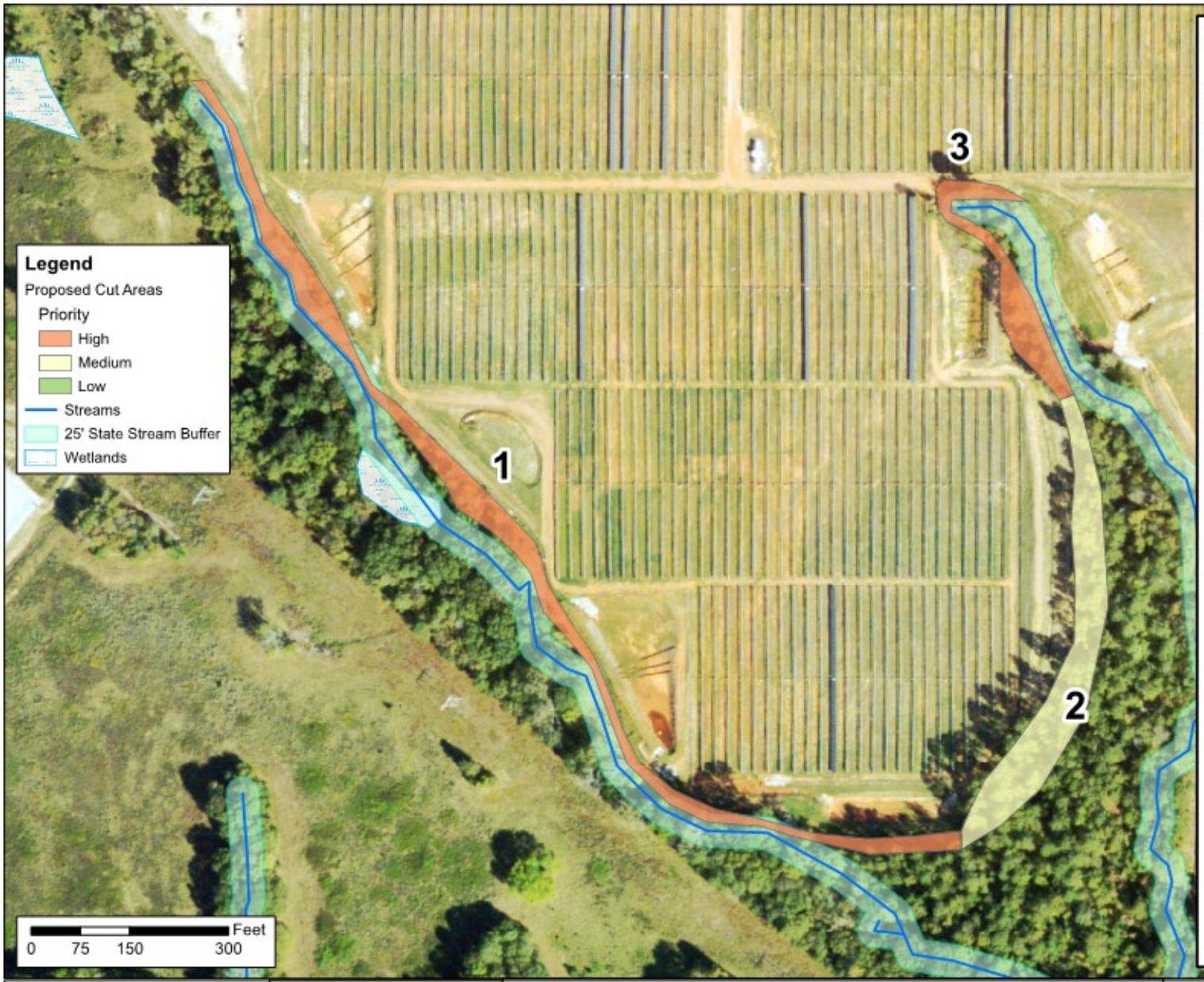
1 inch = 1,250 feet

N
W
E
S

3D Shading Impacts



[redacted]	Overall Figure	[redacted] Tree Trimming [redacted] Georgia November 2024	1 inch = 750 feet N W E S



NOTES:

1. High priority area. Individual trees are flagged and marked to cut. Flagging is blue and white stripe (see photo below). This stretch is entirely within a stream buffer and close to fence line. There is not a lot of room to operate and machinery is unlikely. Controlled dropping of limbs is necessary. Avoid soil disturbance and implement erosion BMPs.

2. Medium priority area. A storm water basin in this corner provides some space between trees and fence line, so shading is not a big issue. If needed, can cut as many trees as possible. There is no issue with buffers here. Trees are not flagged.

3. High priority area. Individual trees are flagged to cut. Tight quarters to fence line and entirely within stream buffer. Avoid soil disturbance and implement erosion BMPs.

Photo: Area 1 where individual trees are flagged for cutting.

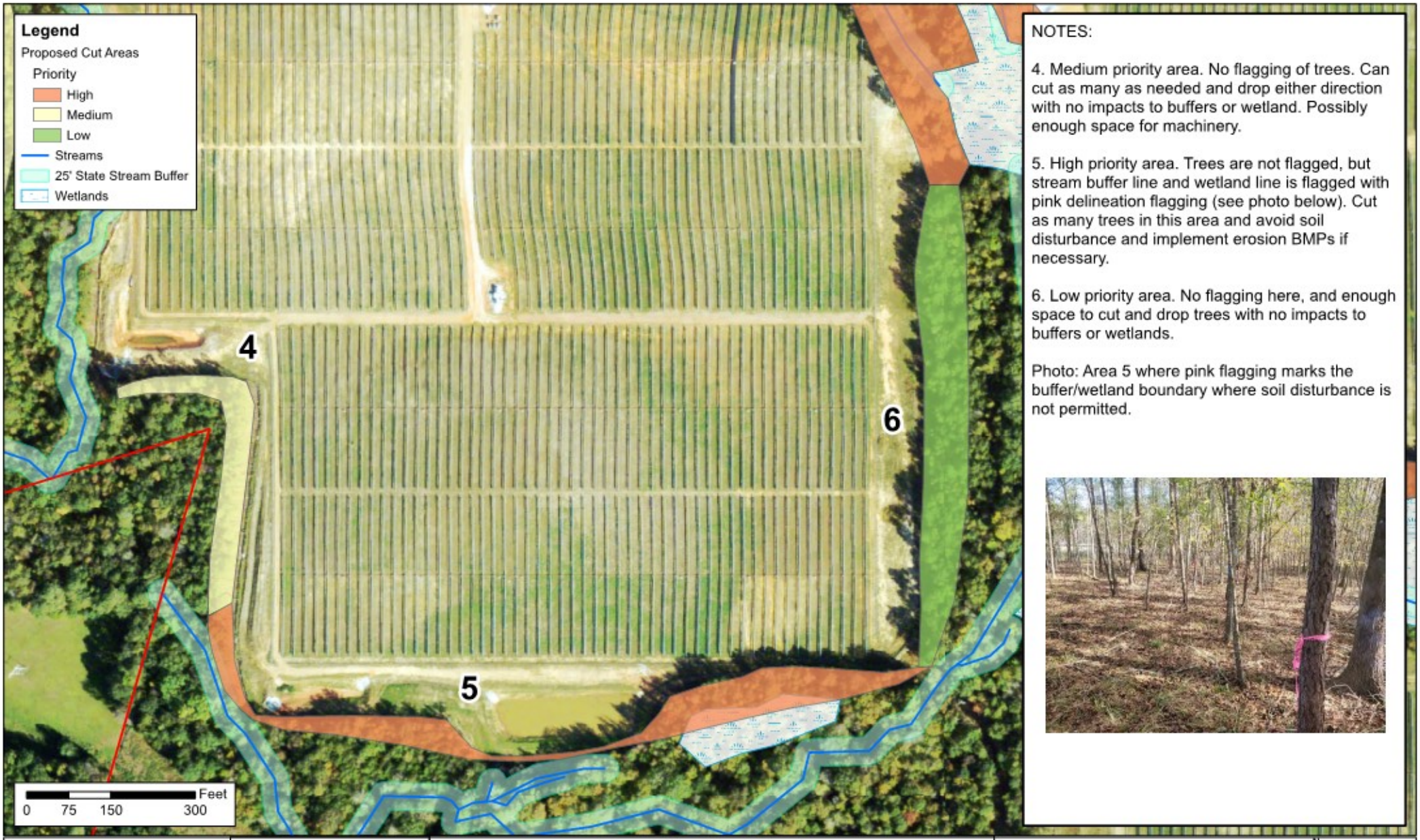
[redacted]

Figure A
(SW Corner of Site)

[redacted] - Tree Trimming
[redacted] Georgia
November 2024

1 inch = 150 feet

N
W E
S



NOTES:

4. Medium priority area. No flagging of trees. Can cut as many as needed and drop either direction with no impacts to buffers or wetland. Possibly enough space for machinery.

5. High priority area. Trees are not flagged, but stream buffer line and wetland line is flagged with pink delineation flagging (see photo below). Cut as many trees in this area and avoid soil disturbance and implement erosion BMPs if necessary.

6. Low priority area. No flagging here, and enough space to cut and drop trees with no impacts to buffers or wetlands.

Photo: Area 5 where pink flagging marks the buffer/wetland boundary where soil disturbance is not permitted.

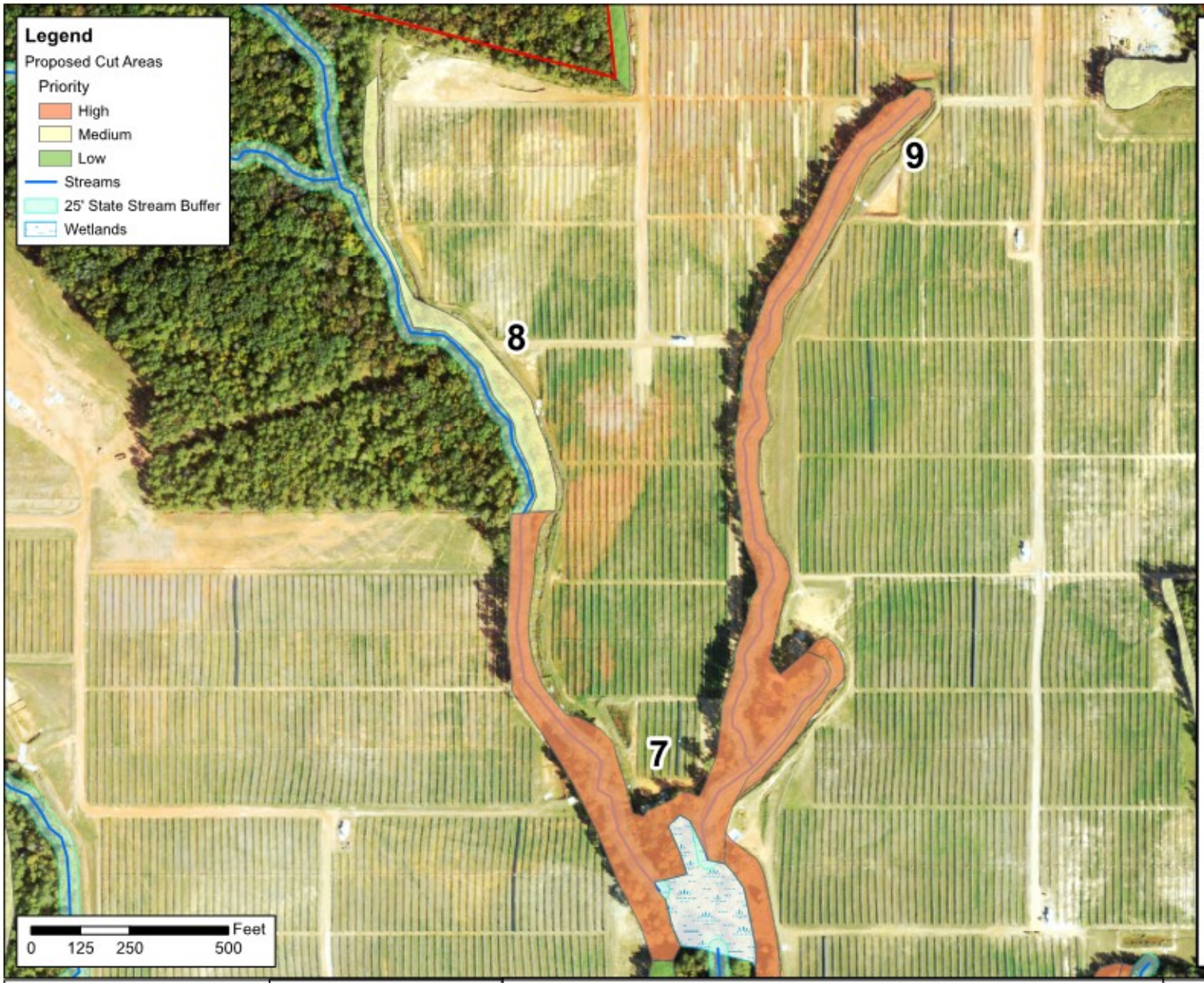
[redacted]

Figure B
(South-Central)

[redacted] - Tree Trimming
[redacted] Georgia
November 2024

1 inch = 150 feet

N
W E
S



NOTES:

7. High priority area. No flagging of trees or buffers. As many trees need to be cut as possible. Entire area is within stream buffer/wetland with tight quarters to the fence line. Avoid soil disturbance and implement erosion BMPs.

8. Medium priority area. No flagging. Cut as many trees as possible. Area is within stream buffer. Avoid soil disturbance and implement erosion BMPs.

9. High priority area. Entire stream reach needs to be cut. No flagging and all within stream buffer. Avoid soil disturbance and implement erosion BMPs.

Photo: Area 7 where tree line and stream buffer abuts the fence line.

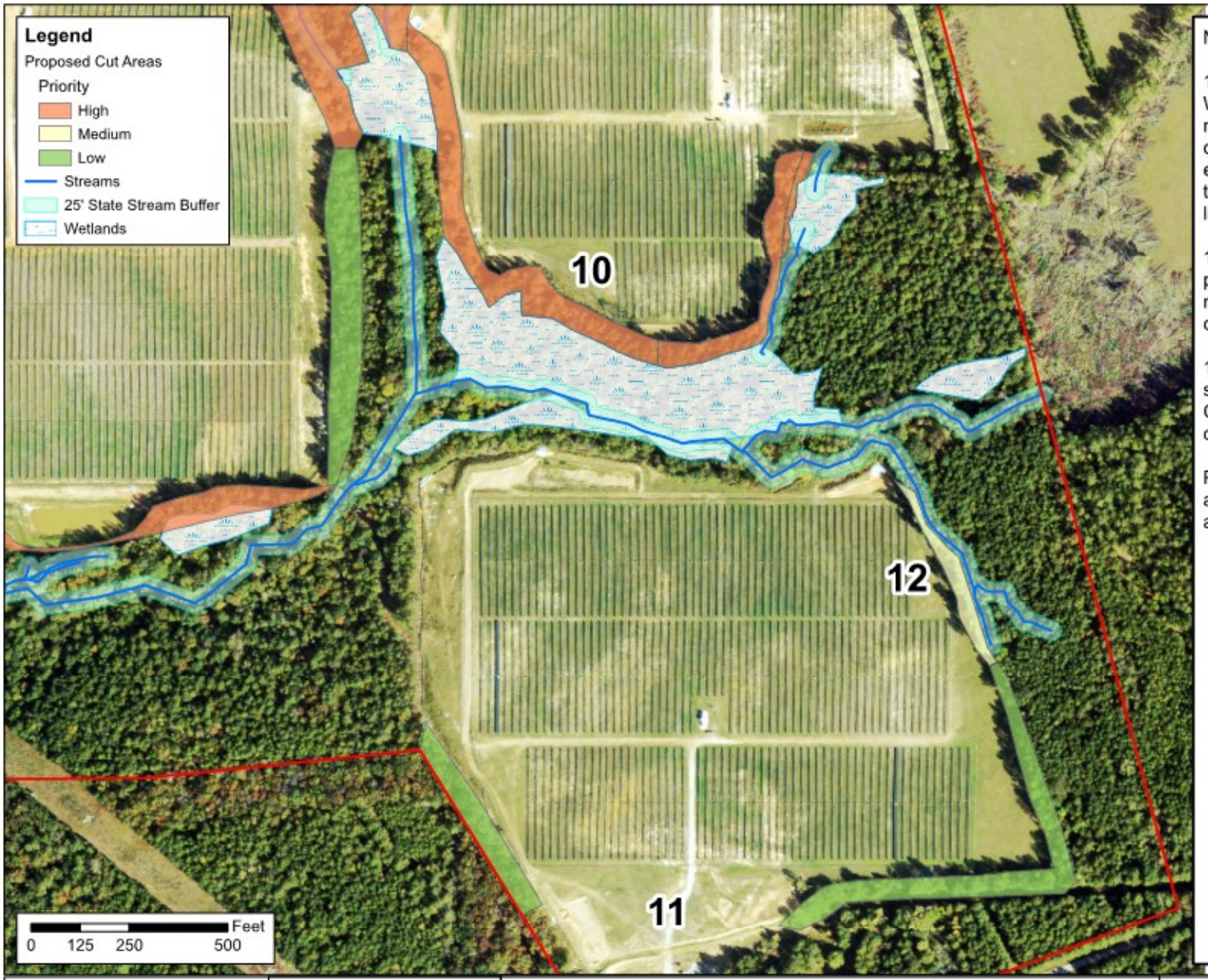
[redacted]

Figure C (Central)

[redacted] - Tree Trimming
[redacted] Georgia
November 2024

1 inch = 250 feet

N
W E
S



NOTES:

10. High priority area. Trees are not flagged. Wetland and buffer line is flagged pink. Cut as many trees as possible here with no soil disturbance within buffer/wetland and implement erosion BMPs if necessary. May be enough space toward the fence line for machinery or dropping of limbs.

11. Low priority area. Minor shading impacts with plenty of space between trees and fence line. If needed, can cut up to site boundary with no concern for buffer or wetland impacts.

12. Medium priority area. Tight quarters between stream buffer and fence line. No flagging here. Cut as many trees as possible. Avoid soil disturbance and implement erosion BMPs.

Photo: Area 12 where trees and stream buffer abut the fence line and shading impacts to arrays are a concern.

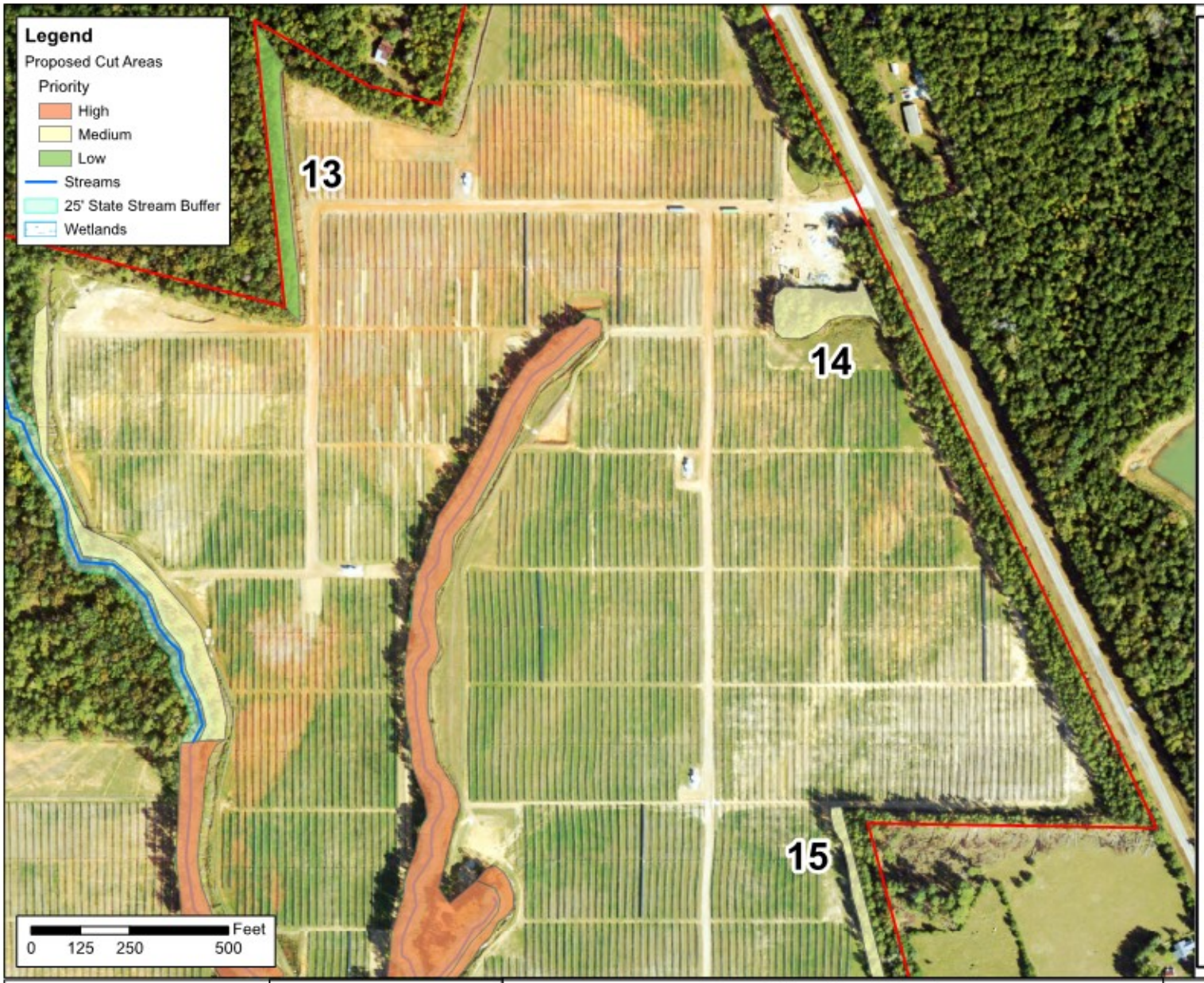
[redacted]

Figure D (East)

[redacted] - Tree Trimming
[redacted] Georgia
November 2024

1 inch = 250 feet

N
W E
S



NOTES:

13. Low priority area. Minor shading impacts to arrays. No flagging here. Can cut trees up to site boundary with no concern for buffer or wetland impacts.

14. Medium priority area. Pocket of trees adjacent to parking lot area that can be cut down with no concerns for buffer or wetland impacts.

15. Medium priority area. This stretch is a vegetative screen for the adjacent residential property. If possible to cut, can remove some of these trees with no concerns for buffer or wetland impacts.

Photo: Area 15 of the vegetative screen for the residential property.

[redacted]

Figure E
(NE Corner of Site)

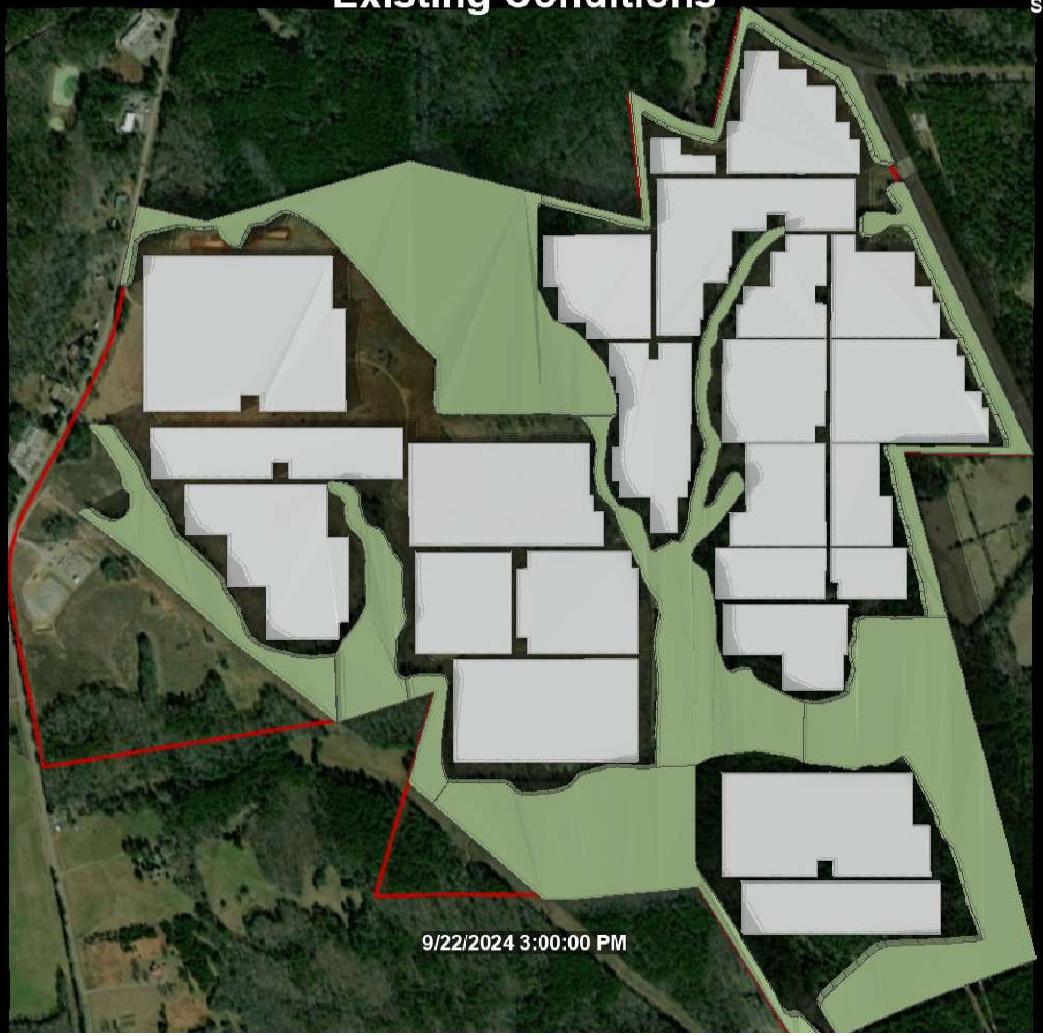
[redacted] **- Tree Trimming**
[redacted] **Georgia**
November 2024

1 inch = 250 feet

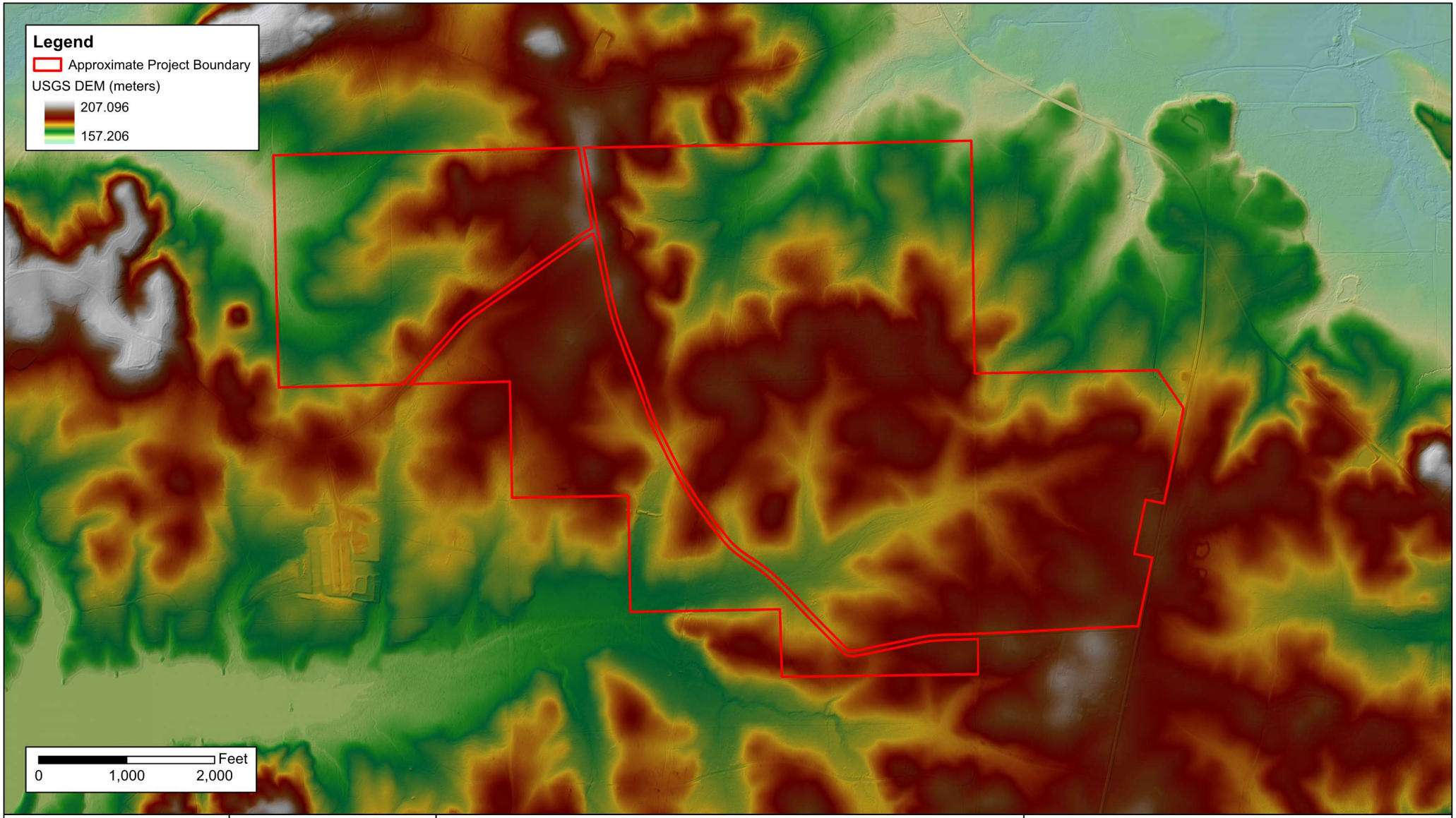
N
W E
S

Shading Analysis
Existing Conditions

Location: GA
Canopy Height: Variable (60'-100')
Panel Height: Mid-Panel (5')
Sun Position: September 22, 2024 (Fall Equinox)



Digital Elevation Models



[redacted]

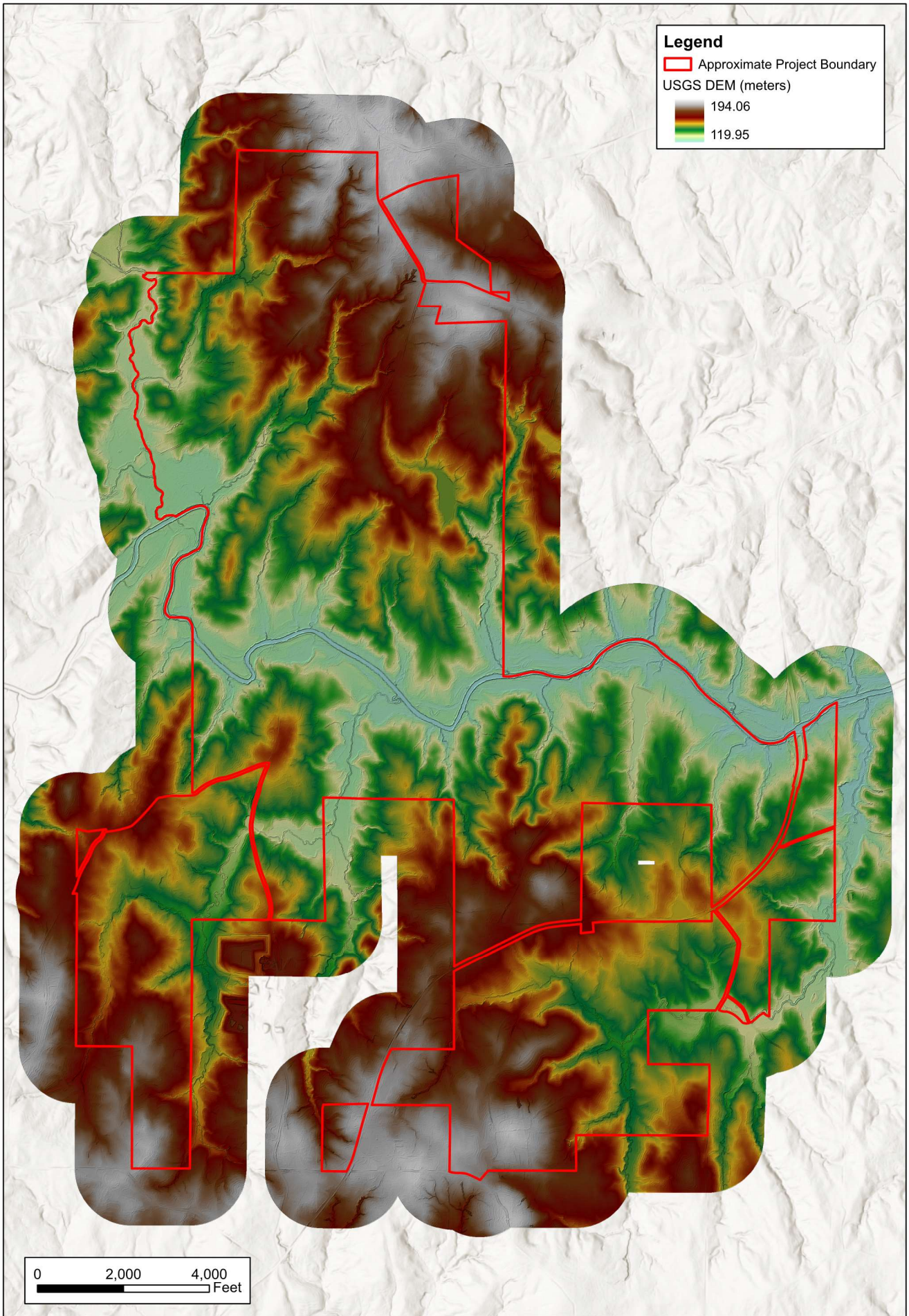
6. Digital Elevation Model Map

[redacted]

January 2025

1 inch = 1,000 feet

N
W
E
S



[redacted]

6. USGS Digital Elevation Model Map

[redacted]

March 2025

1 inch = 2,000 feet

N
W
E
S