

APPALACHIAN POWER COMPANY  
BEFORE THE  
VIRGINIA STATE CORPORATION COMMISSION  
CASE NO. PUR-2021-00219

APPLICATION FOR APPROVAL AND CERTIFICATION OF  
ELECTRICAL TRANSMISSION LINE

Fieldale to Ridgeway  
138 kV Rebuild Project

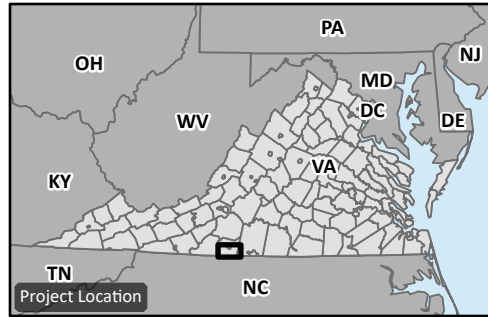
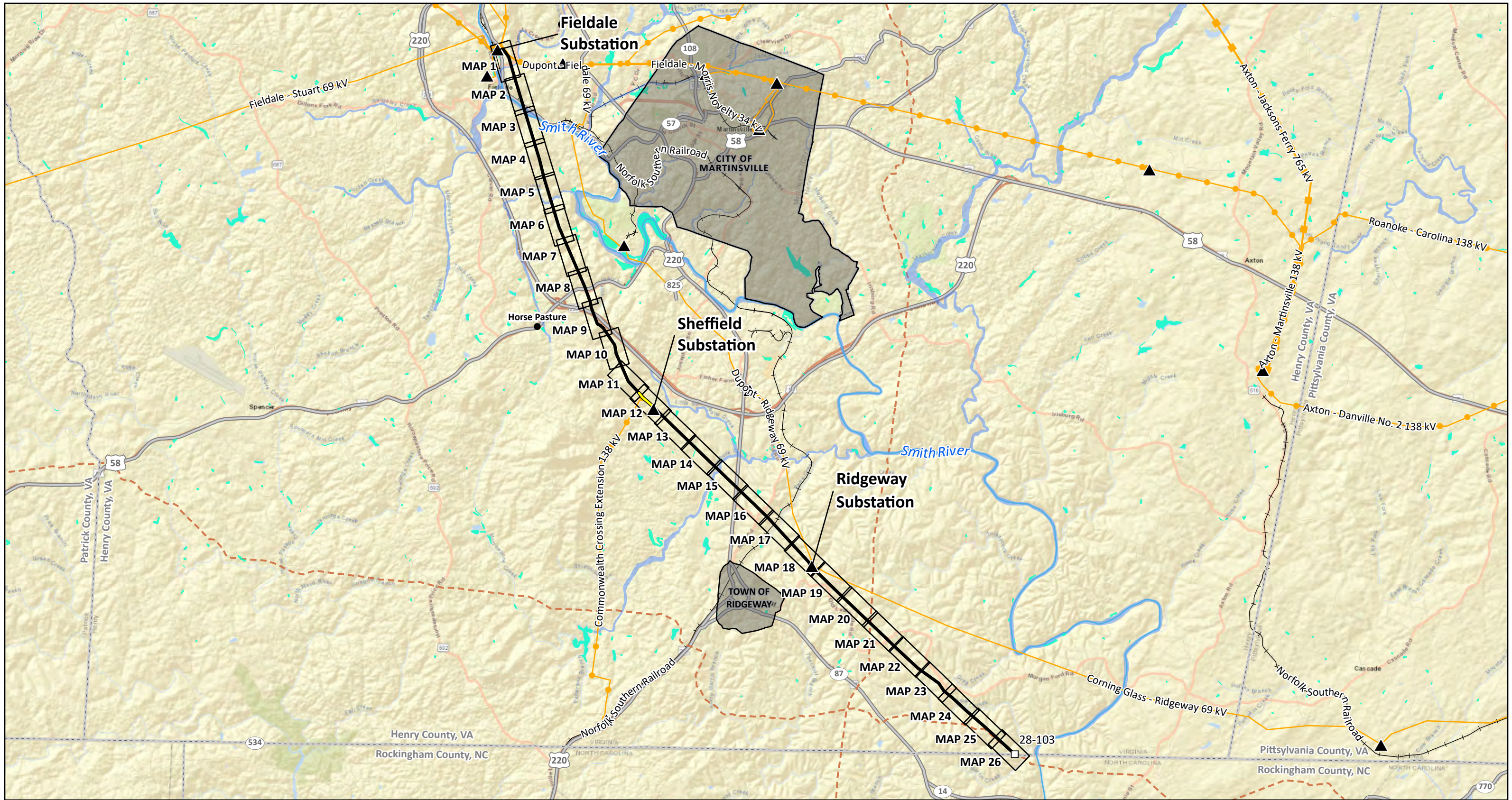
VOLUME 2 OF 2

Siting Study and VDEQ Supplement

November 2021

**ATTACHMENT B: DESKTOP DELINEATED FEATURES AND ROW ROUTE MAP**





▲ Existing AEP Substation	— Existing AEP Transmission Line (69 kV or lower)	— Highway	■ 100-year Floodplain (FEMA)
□ Existing AEP Structure	— Existing AEP Transmission Line (115-230 kV)	— Railroad	■ Town/City Limits
— Fieldale-Dan River 138 kV Line Proposed Route	— Existing AEP Transmission Line (345 kV +)	- - - Pipeline	— County/State Boundary
— 138 kV to be Reconductored	● Populated Place	— Stream (NHD)	□ Map Tile
		■ NWI Wetland	

**Henry County, Virginia**

1" = 1.5 miles

Date: 11/4/2021; Author: jhumiston; Project: 159105

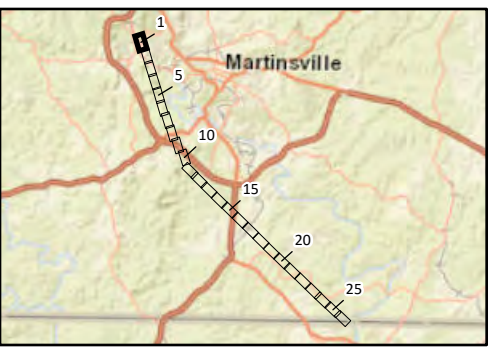
**Index**  
**Desktop Wetland and Stream Delineation**  
 Fieldale to Ridgeway 138 kV Rebuild Project



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Map 2



Existing AEP Substation	High Probability Stream	State Route
Proposed AEP Structure	Moderate Probability Wetland	Road
Fieldale-Dan River 138 kV Line Proposed Route	NWI Wetland	Railroad
ROW (100')	100-year Floodplain (FEMA)	Index Contour (50')
Existing AEP Transmission Line (69 kV or lower)	NHD Stream	Intermediate Contour (5')
Existing AEP Transmission Line (115-230 kV)	Hydric Soils	Map Tile

Henry County,  
Virginia

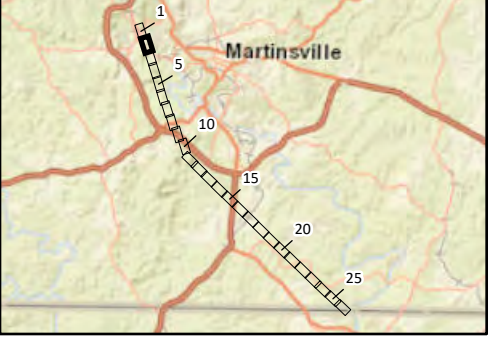
1" = 200'

Date: 11/4/2021; Author: jhumiston; Project: 159105

**Map 1 of 26**  
**Desktop Wetland and Stream Delineation**  
 Fieldale to Ridgeway 138 kV Rebuild Project



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Proposed AEP Structure	Moderate Probability Wetland	Road
Fieldale-Dan River 138 kV Line Proposed Route	100-year Floodplain (FEMA)	Railroad
ROW (100')	NHD Stream	Index Contour (50')
High Probability Stream	Hydric Soils	Intermediate Contour (5')
Low Probability Stream	State Route	Map Tile

Henry County,  
Virginia

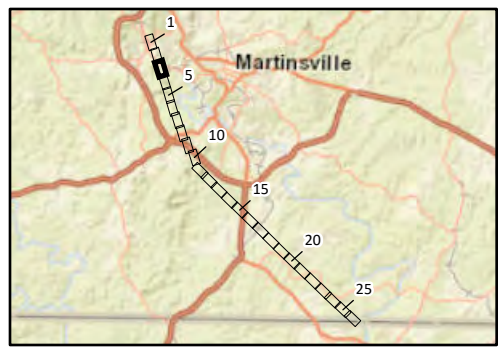
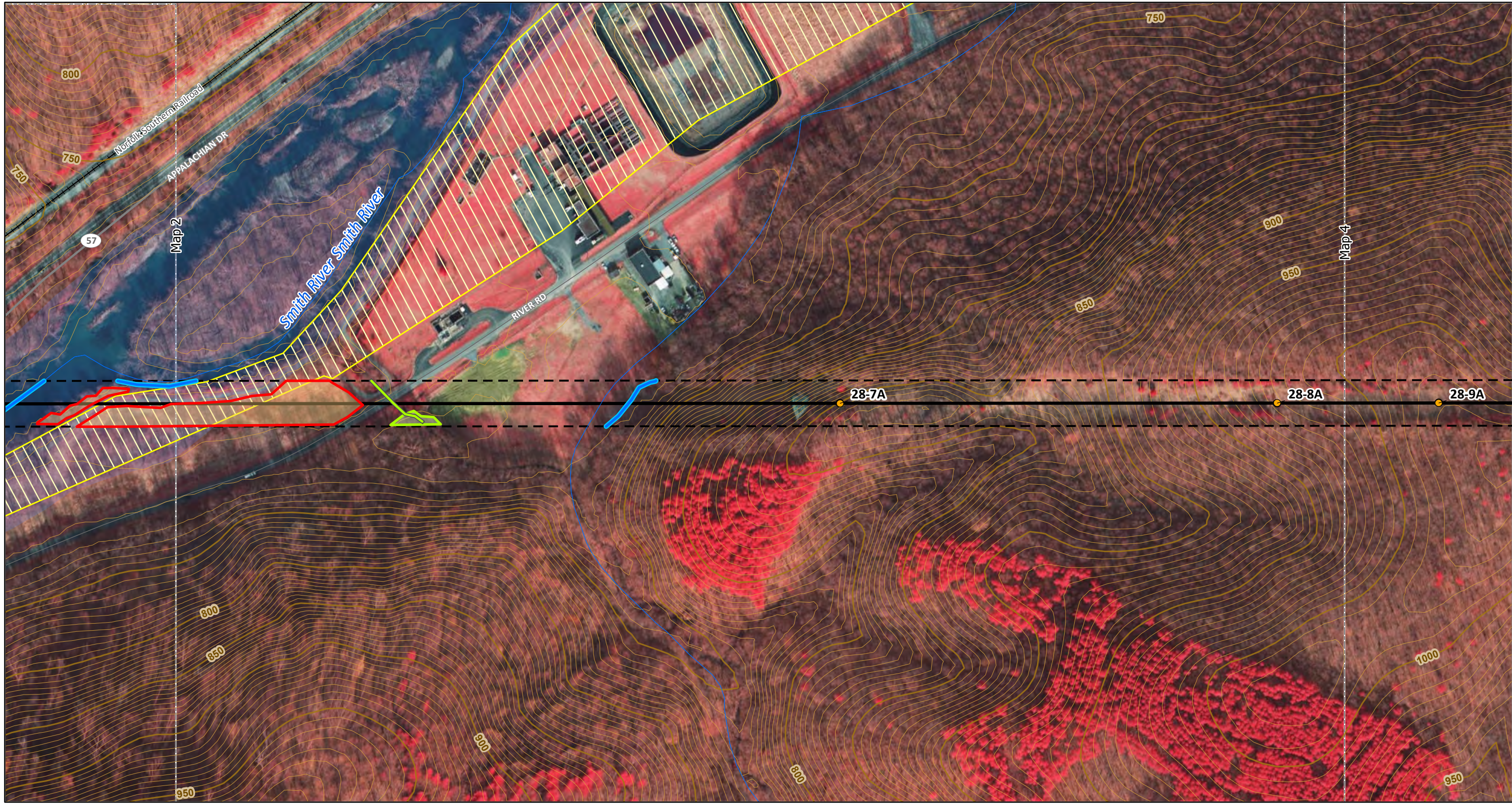
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**Map 2 of 26**  
**Desktop Wetland and Stream Delineation**  
 Fieldale to Ridgeway 138 kV Rebuild Project



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Proposed AEP Structure	Low Probability Wetland	Railroad
Fieldale-Dan River 138 kV Line Proposed Route	100-year Floodplain (FEMA)	Index Contour (50')
ROW (100')	NHD Stream	Intermediate Contour (5')
High Probability Stream	Hydric Soils	Map Tile
Low Probability Stream	State Route	
Moderate Probability Wetland	Road	

Henry County, Virginia

0 100 200 400 Feet

1" = 200'

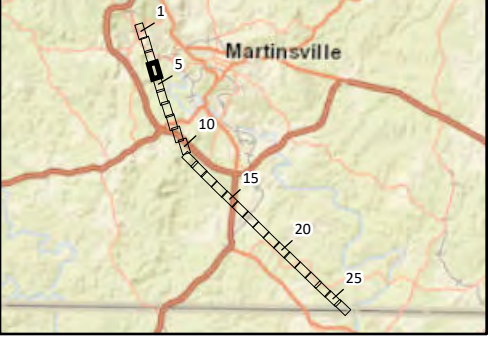
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**Map 3 of 26**  
**Desktop Wetland and Stream Delineation**  
 Fieldale to Ridgeway 138 kV Rebuild Project

**APPALACHIAN POWER**  
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Proposed AEP Structure	NHD Stream
Fieldale-Dan River 138 kV Line Proposed Route	Index Contour (50')
ROW (100')	Intermediate Contour (5')
Existing Transmission Line to be Retired	Map Tile
High Probability Stream	

Henry County, Virginia

0    100    200    400  
Feet

1" = 200'

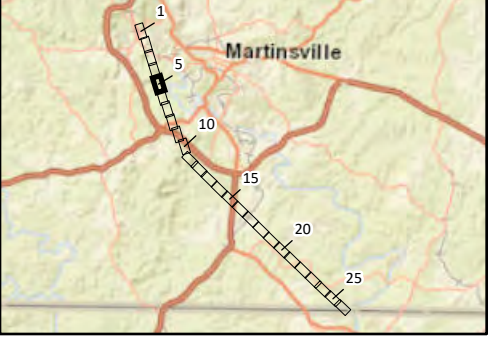
Date: 11/4/2021; Author: jhumiston; Project: 159105



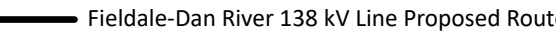


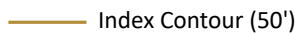
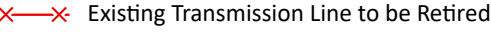

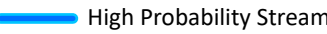
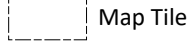

**Map 4 of 26**  
**Desktop Wetland and Stream Delineation**  
Fieldale to Ridgeway 138 kV Rebuild Project


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 Proposed AEP Structure	 100-year Floodplain (FEMA)
 Fieldale-Dan River 138 kV Line Proposed Route	 NHD Stream
 ROW (100')	 Index Contour (50')
 Existing Transmission Line to be Retired	 Intermediate Contour (5')
 High Probability Stream	 Map Tile
 Moderate Probability Wetland	


 Henry County, Virginia

 0 100 200 400 Feet

1" = 200'

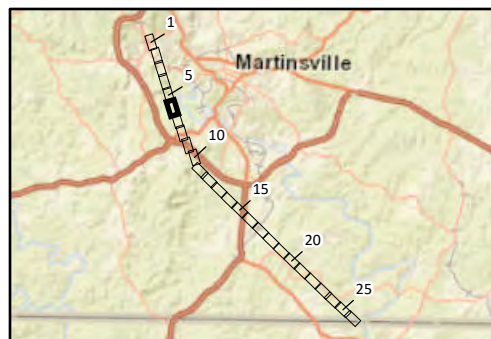
Date: 11/4/2021; Author: jhumiston; Project: 159105












**Map 5 of 26**  
**Desktop Wetland and Stream Delineation**  
 Fieldale to Ridgeway 138 kV Rebuild Project


  
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 Proposed AEP Structure	 Low Probability Wetland
 Fieldale-Dan River 138 kV Line Proposed Route	 NHD Stream
 ROW (100')	 Index Contour (50')
 Existing Transmission Line to be Retired	 Intermediate Contour (5')
 Moderate Probability Stream	 Map Tile
 Low Probability Stream	


 Henry County,  
Virginia

0    100    200    400  
Feet

1" = 200'

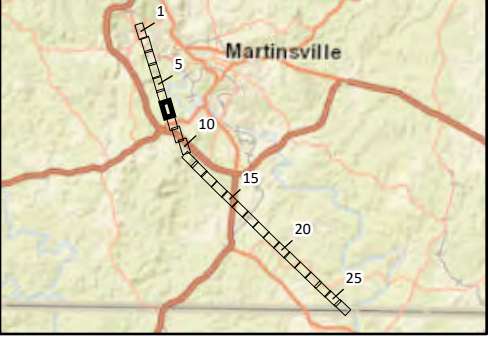
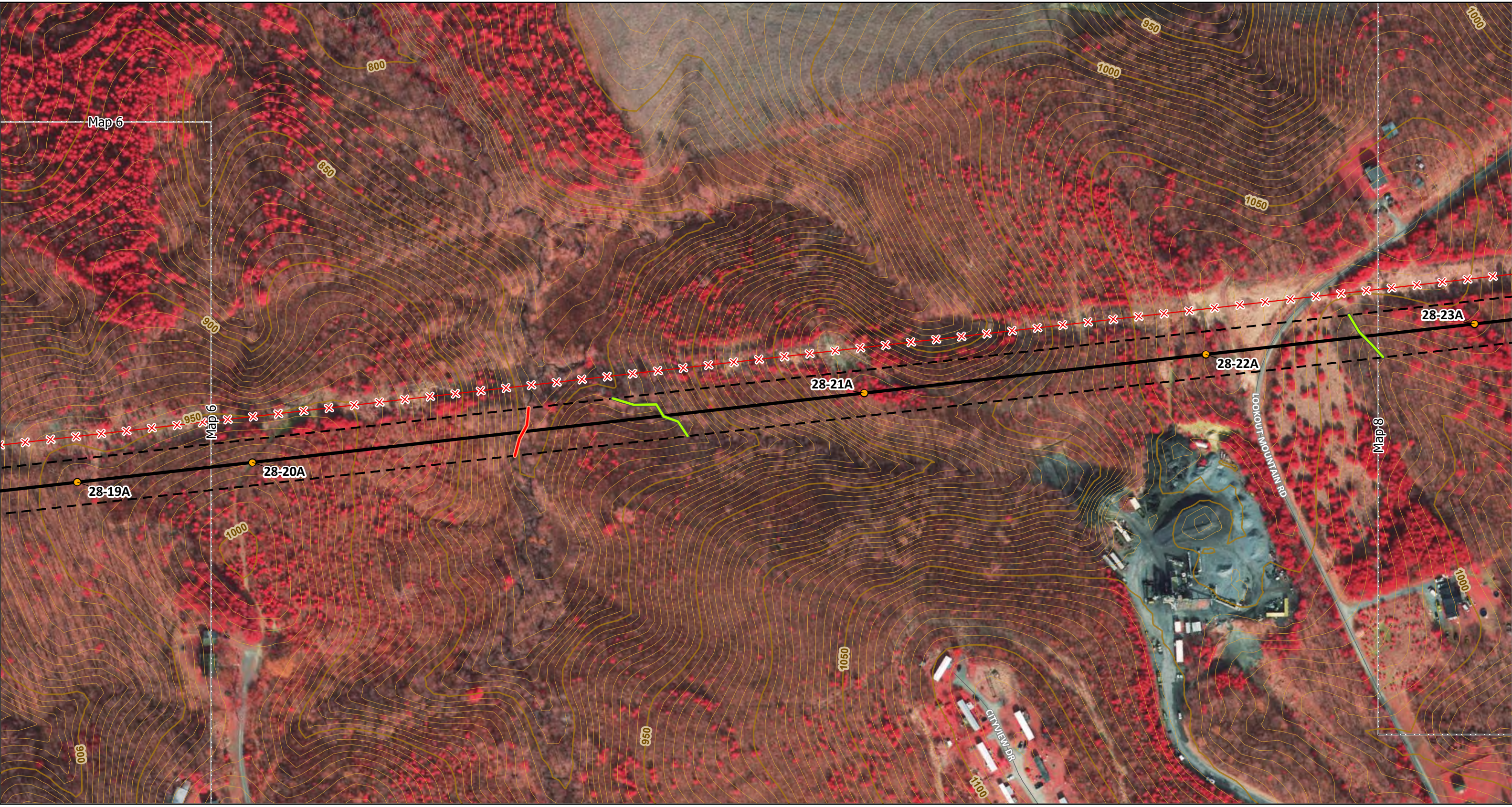
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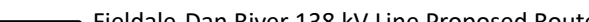





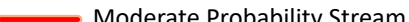

**Map 6 of 26**  
**Desktop Wetland and Stream Delineation**  
Fieldale to Ridgeway 138 kV Rebuild Project


  
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 Proposed AEP Structure	 Low Probability Stream
 Fieldale-Dan River 138 kV Line Proposed Route	 Road
 ROW (100')	 Index Contour (50')
 Existing Transmission Line to be Retired	 Intermediate Contour (5')
 Moderate Probability Stream	 Map Tile


 Henry County, Virginia

0    100    200    400  
Feet

1" = 200'

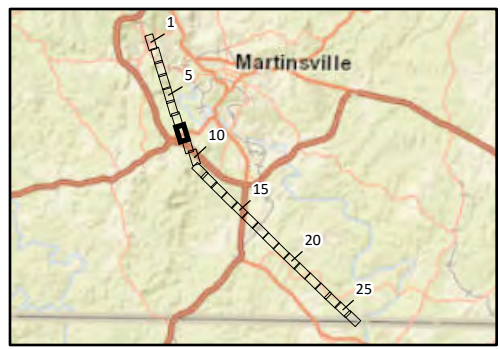
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**Map 7 of 26**  
**Desktop Wetland and Stream Delineation**  
Fieldale to Ridgeway 138 kV Rebuild Project

  
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Proposed AEP Structure	NHD Stream
Fieldale-Dan River 138 kV Line Proposed Route	U.S. Route
ROW (100')	Road
Existing Transmission Line to be Retired	Index Contour (50')
High Probability Stream	Intermediate Contour (5')
Low Probability Stream	Map Tile

Henry County, Virginia

0    100    200    400  
Feet

1" = 200'

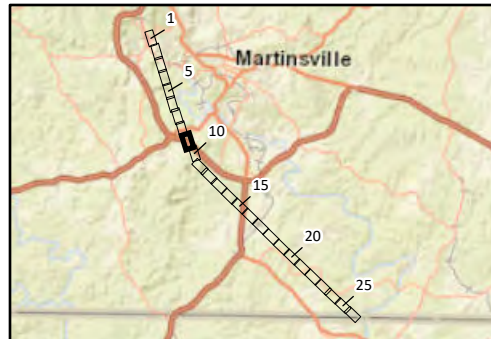
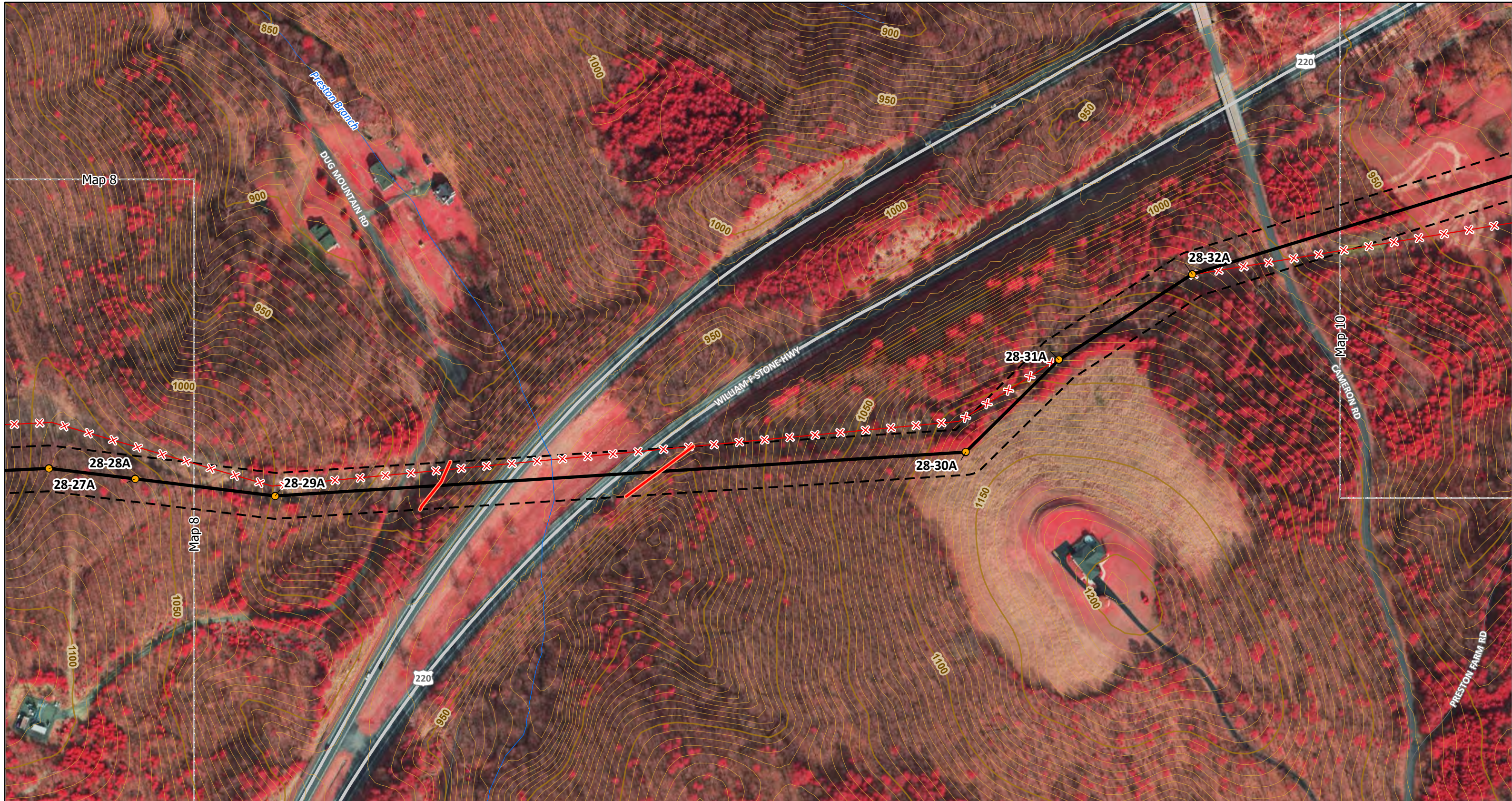
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**Map 8 of 26**  
**Desktop Wetland and Stream Delineation**  
Fieldale to Ridgeway 138 kV Rebuild Project

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Proposed AEP Structure	U.S. Route
Fieldale-Dan River 138 kV Line Proposed Route	Road
ROW (100')	Index Contour (50')
Existing Transmission Line to be Retired	Intermediate Contour (5')
Moderate Probability Stream	Map Tile
NHD Stream	

Henry County, Virginia

0    100    200    400  
Feet

1" = 200'

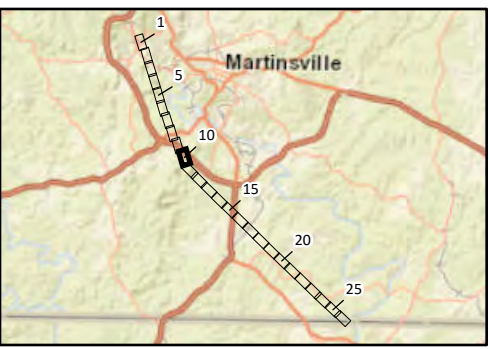
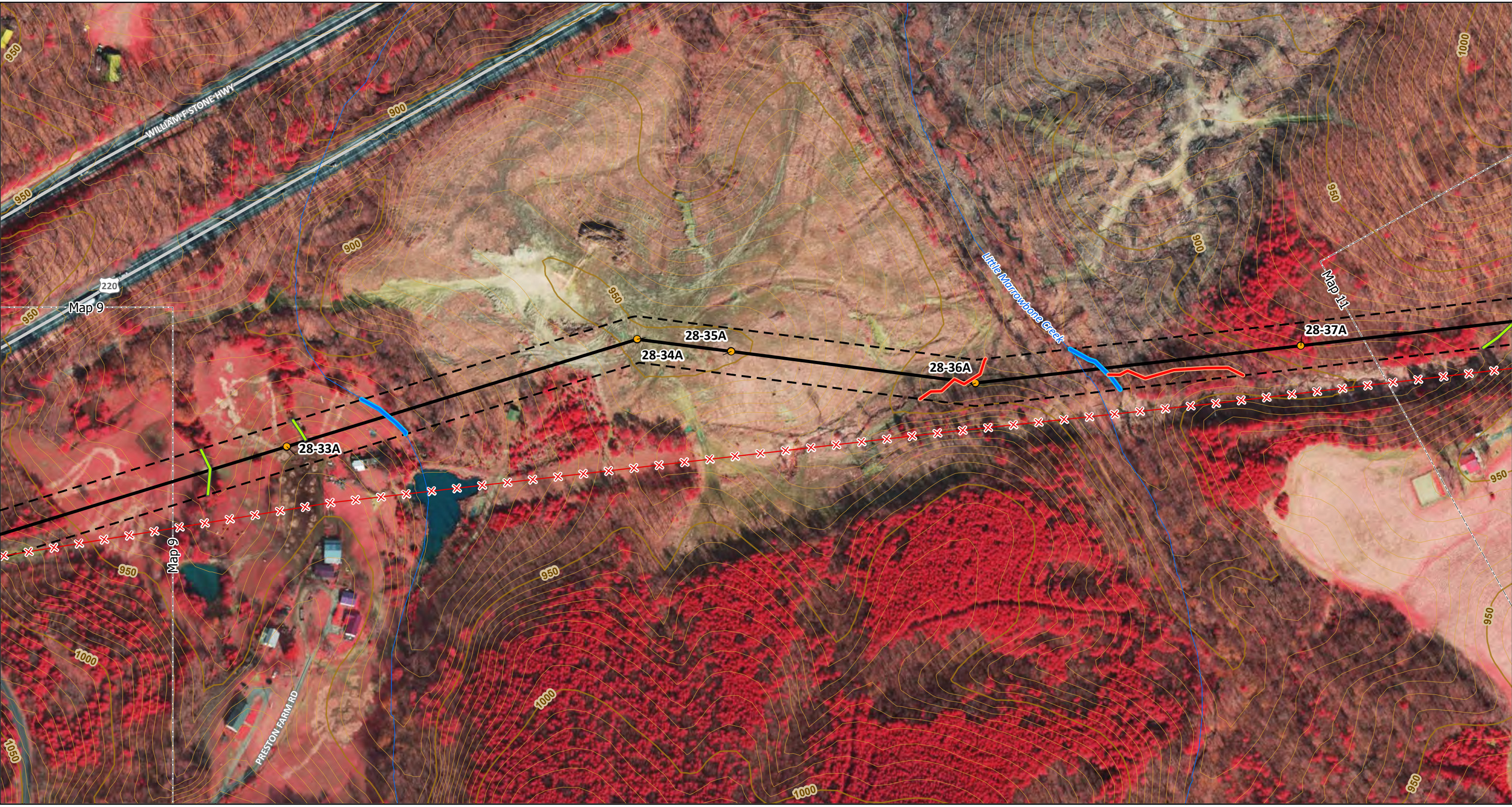
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**Map 9 of 26**  
Desktop Wetland and Stream Delineation  
Fieldale to Ridgeway 138 kV Rebuild Project

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Proposed AEP Structure	Moderate Probability Stream	Index Contour (50')
Fieldale-Dan River 138 kV Line Proposed Route	Low Probability Stream	Intermediate Contour (5')
ROW (100')	NHD Stream	Map Tile
Existing Transmission Line to be Retired	U.S. Route	
High Probability Stream	Road	

Henry County, Virginia

0    100    200    400  
Feet

1" = 200'

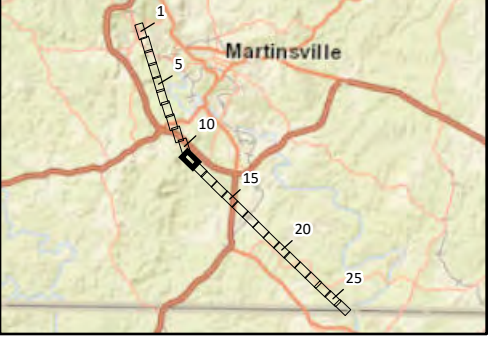
Date: 11/4/2021; Author: jhumiston; Project: 159105












**Map 10 of 26**  
**Desktop Wetland and Stream Delineation**  
Fieldale to Ridgeway 138 kV Rebuild Project


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 Proposed AEP Structure	 Existing City of Danville Transmission Line (69 kV)
 Existing AEP Structure	 Low Probability Stream
 Fieldale-Dan River 138 kV Line Proposed Route	 Index Contour (50')
 138 kV to be Reconstructed	 Intermediate Contour (5')
 ROW (100')	 Map Tile
 Existing Transmission Line to be Retired	


 Henry County,  
Virginia

0    100    200    400  
Feet

1" = 200'

Date: 11/4/2021; Author: jhumiston; Project: 159105

**Map 11 of 26**  
**Desktop Wetland and Stream Delineation**  
Fieldale to Ridgeway 138 kV Rebuild Project

  
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**Note:** Existing structures 28-38A, 28-39A, and 28-40A were replaced in 2019 and were designed with enough capacity to allow new conductor and shield wire to be installed as part of this Project without replacing the structures.



▲ Existing AEP Substation	⊠ ROW (100')	▨ Hydric Soils
● Proposed AEP Structure	⊗ Existing Transmission Line to be Retired	— Road
□ Existing AEP Structure	● Existing AEP Transmission Line (115-230 kV)	— Index Contour (50')
— Fieldale-Dan River 138 kV Line Proposed Route	— Moderate Probability Stream	— Intermediate Contour (5')
— 138 kV to be Reconducted	— NHD Stream	⊠ Map Tile

Henry County,  
Virginia

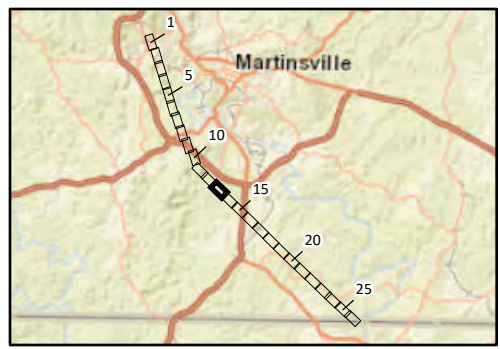
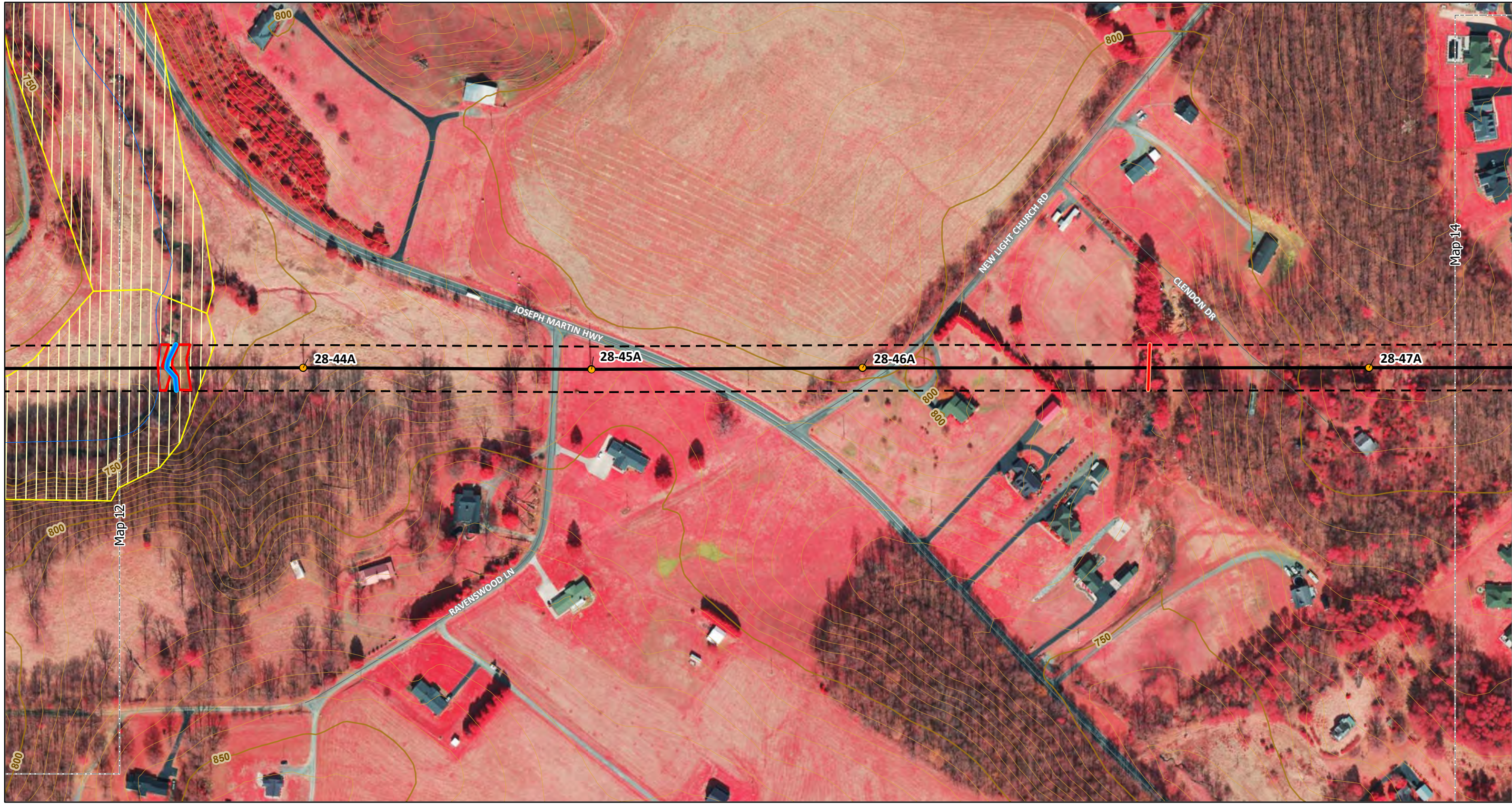
1" = 200'

**Map 12 of 26**  
**Desktop Wetland and Stream Delineation**  
 Fieldale to Ridgeway 138 kV Rebuild Project

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Proposed AEP Structure	NHD Stream
Fieldale-Dan River 138 kV Line Proposed Route	Hydric Soils
ROW (100')	Road
High Probability Stream	Index Contour (50')
Moderate Probability Stream	Intermediate Contour (5')
Moderate Probability Wetland	Map Tile

Henry County, Virginia

0 100 200 400 Feet

1" = 200'

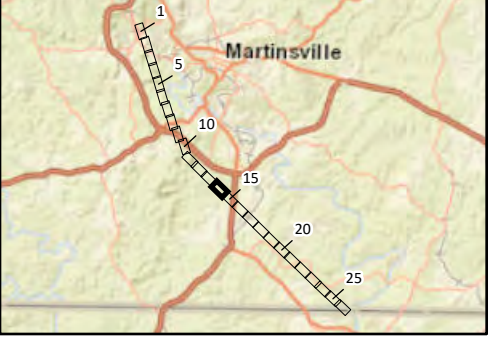
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**Map 13 of 26**  
**Desktop Wetland and Stream Delineation**  
 Fieldale to Ridgeway 138 kV Rebuild Project

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Proposed AEP Structure	NWI Wetland	Index Contour (50')
Fieldale-Dan River 138 kV Line Proposed Route	100-year Floodplain (FEMA)	Intermediate Contour (5')
ROW (100')	NHD Stream	Map Tile
High Probability Stream	Hydric Soils	
High Probability Wetland	Road	

Henry County, Virginia

0    100    200    400  
Feet

1" = 200'

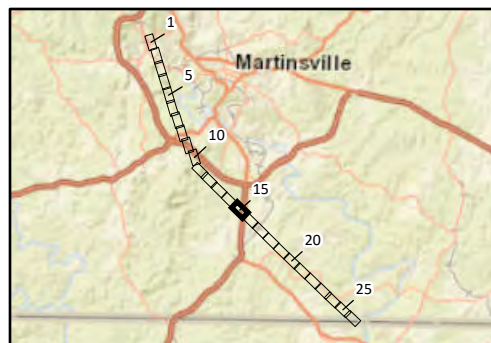
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**Map 14 of 26**  
**Desktop Wetland and Stream Delineation**  
 Fieldale to Ridgeway 138 kV Rebuild Project

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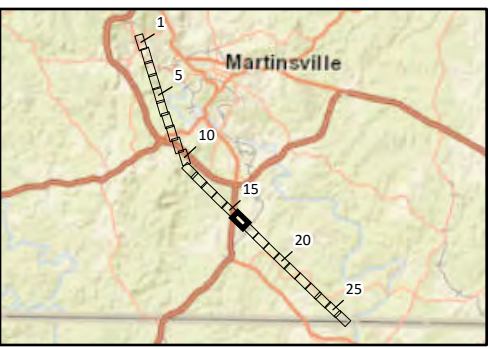
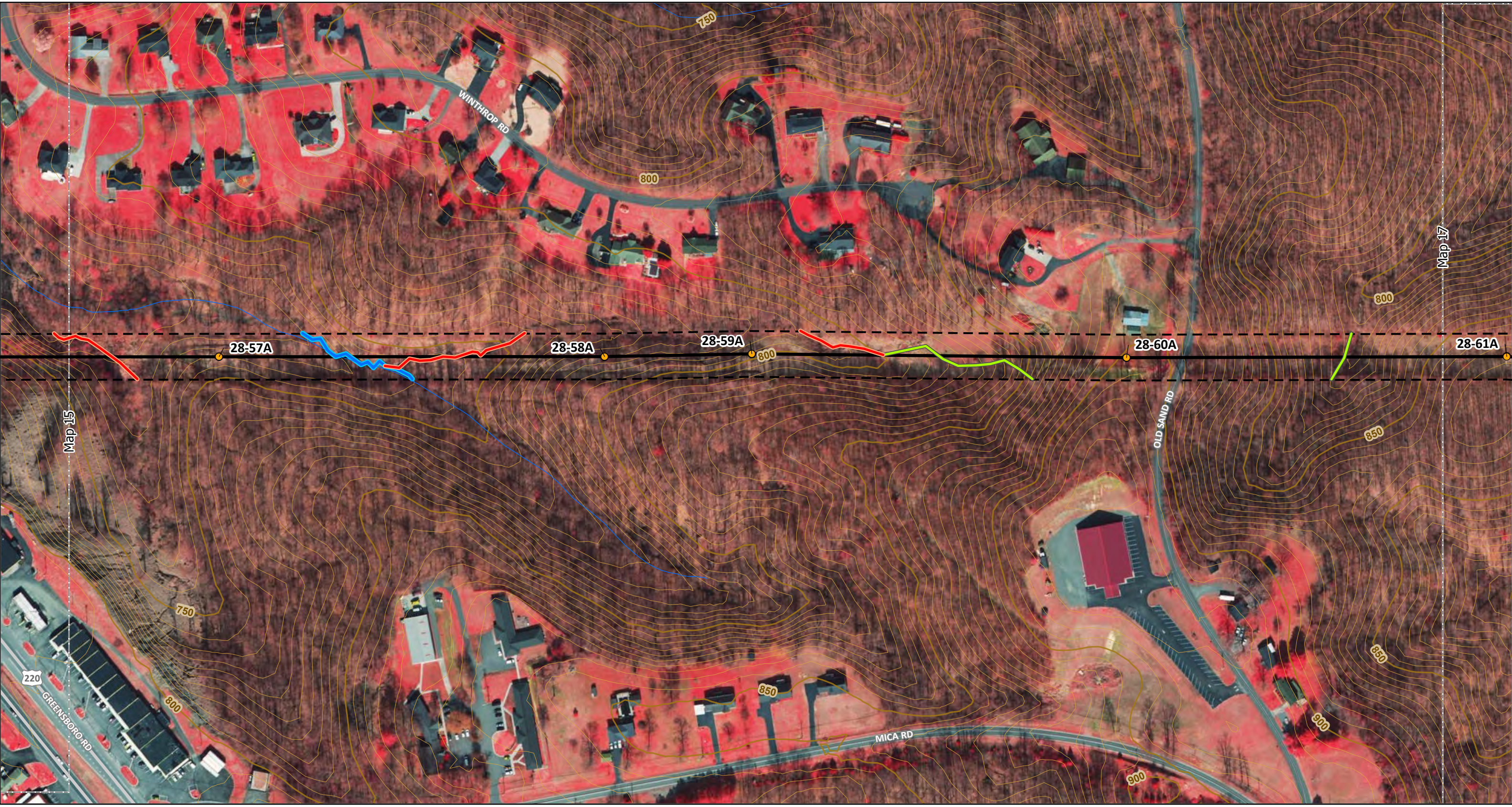
Proposed AEP Structure	Moderate Probability Wetland	U.S. Route
Fieldale-Dan River 138 kV Line Proposed Route	Low Probability Wetland	Road
ROW (100')	NWI Wetland	Index Contour (50')
High Probability Stream	100-year Floodplain (FEMA)	Intermediate Contour (5')
Moderate Probability Stream	NHD Stream	Map Tile
High Probability Wetland	Hydric Soils	

Henry County, Virginia  
 0 100 200 400 Feet  
 1" = 200'

**Map 15 of 26**  
**Desktop Wetland and Stream Delineation**  
 Fieldale to Ridgeway 138 kV Rebuild Project  
  
 An AEP Company  
Date: 11/4/2021; Author: jhumiston; Project: 159105



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Proposed AEP Structure	NHD Stream
Fieldale-Dan River 138 kV Line Proposed Route	U.S. Route
ROW (100')	Road
High Probability Stream	Index Contour (50')
Moderate Probability Stream	Intermediate Contour (5')
Low Probability Stream	Map Tile

Henry County, Virginia

1" = 200'

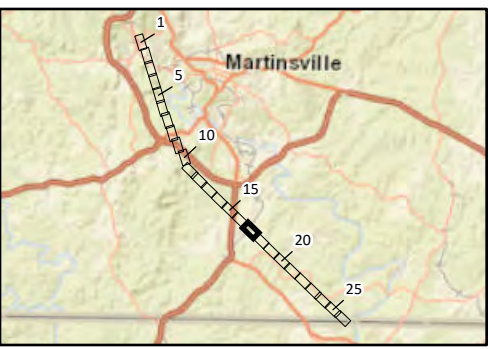
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**Map 16 of 26**  
**Desktop Wetland and Stream Delineation**  
 Fieldale to Ridgeway 138 kV Rebuild Project

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Proposed AEP Structure	Road
Fieldale-Dan River 138 kV Line Proposed Route	Railroad
ROW (100')	Index Contour (50')
High Probability Stream	Intermediate Contour (5')
Moderate Probability Stream	Map Tile
NHD Stream	

Henry County,  
Virginia

0    100    200    400  
Feet

1" = 200'

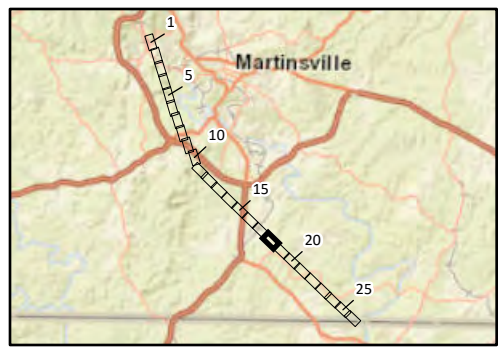
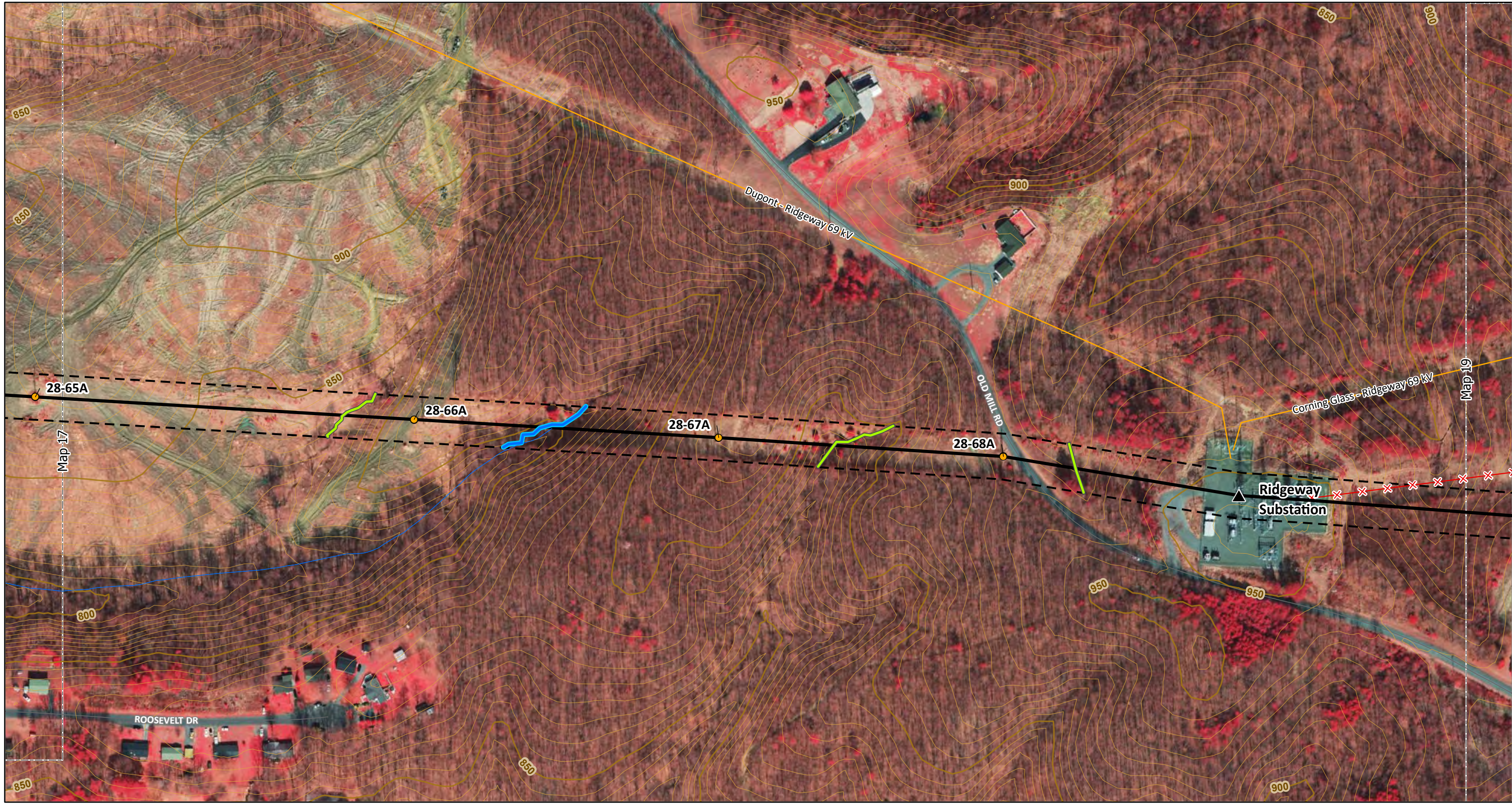
Date: 11/4/2021; Author: jhumiston; Project: 159105

**Map 17 of 26**  
**Desktop Wetland and Stream Delineation**  
Fieldale to Ridgeway 138 kV Rebuild Project

An AEP Company



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Existing AEP Substation	Existing AEP Transmission Line (69 kV or lower)	Index Contour (50')
Proposed AEP Structure	High Probability Stream	Intermediate Contour (5')
Fieldale-Dan River 138 kV Line Proposed Route	Low Probability Stream	Map Tile
ROW (100')	NHD Stream	
Existing Transmission Line to be Retired	Road	

Henry County, Virginia

0 100 200 400 Feet

1" = 200'

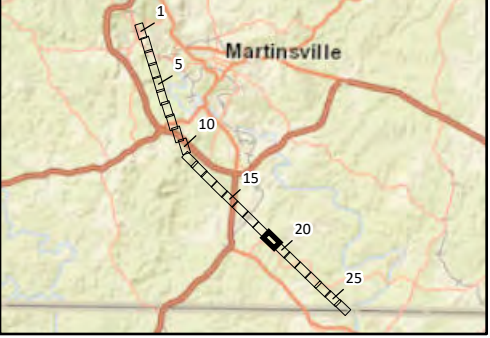
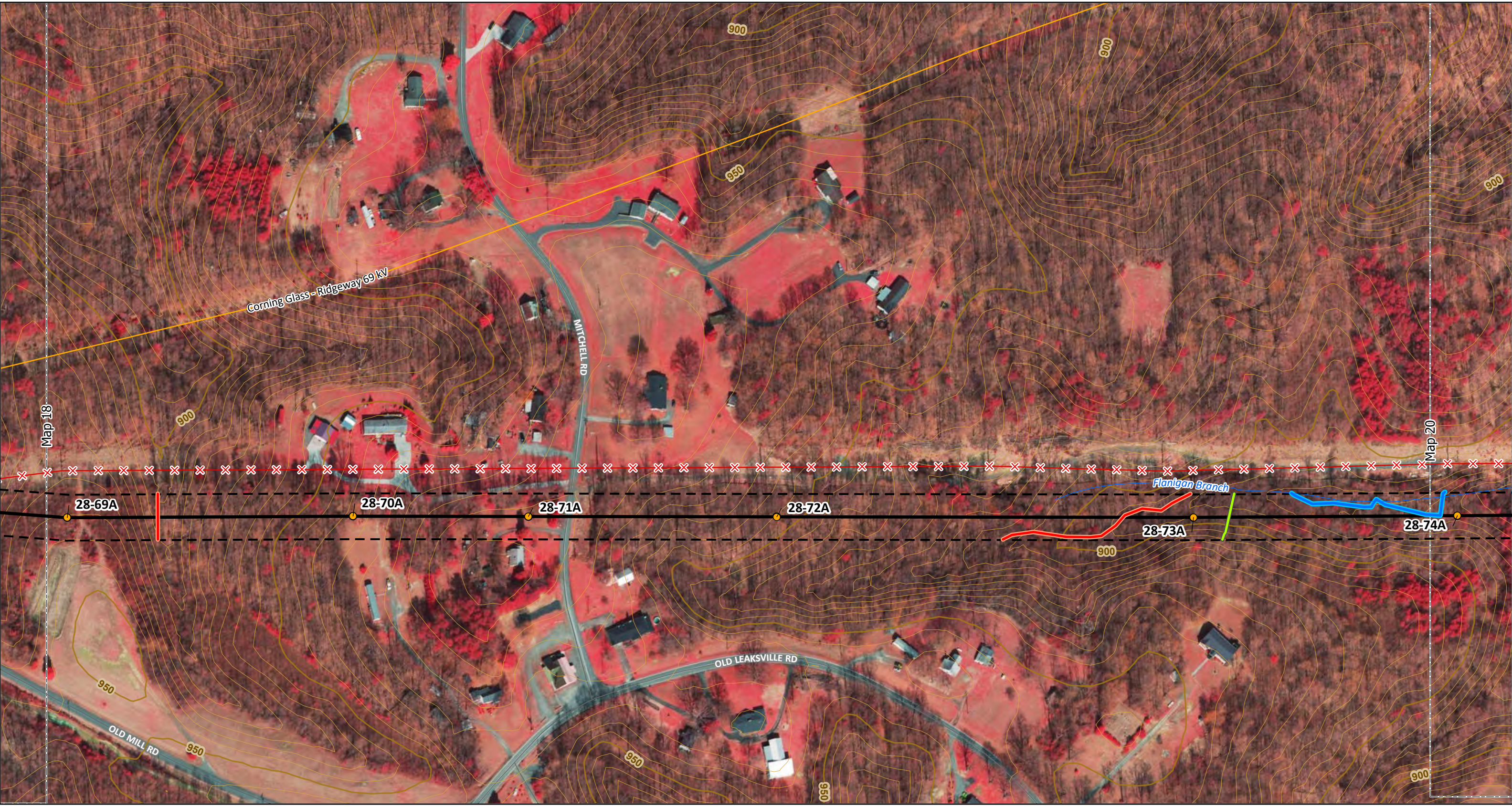
Date: 11/4/2021; Author: jhumiston; Project: 159105

**Map 18 of 26**  
**Desktop Wetland and Stream Delineation**  
 Fieldale to Ridgeway 138 kV Rebuild Project

**APPALACHIAN POWER**  
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Proposed AEP Structure	High Probability Stream	Index Contour (50')
Fieldale-Dan River 138 kV Line Proposed Route	Moderate Probability Stream	Intermediate Contour (5')
ROW (100')	Low Probability Stream	Map Tile
Existing Transmission Line to be Retired	NHD Stream	
Existing AEP Transmission Line (69 kV or lower)	Road	

Henry County, Virginia

0 100 200 400  
Feet

1" = 200'

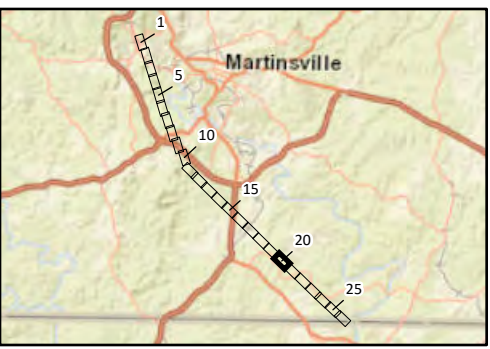
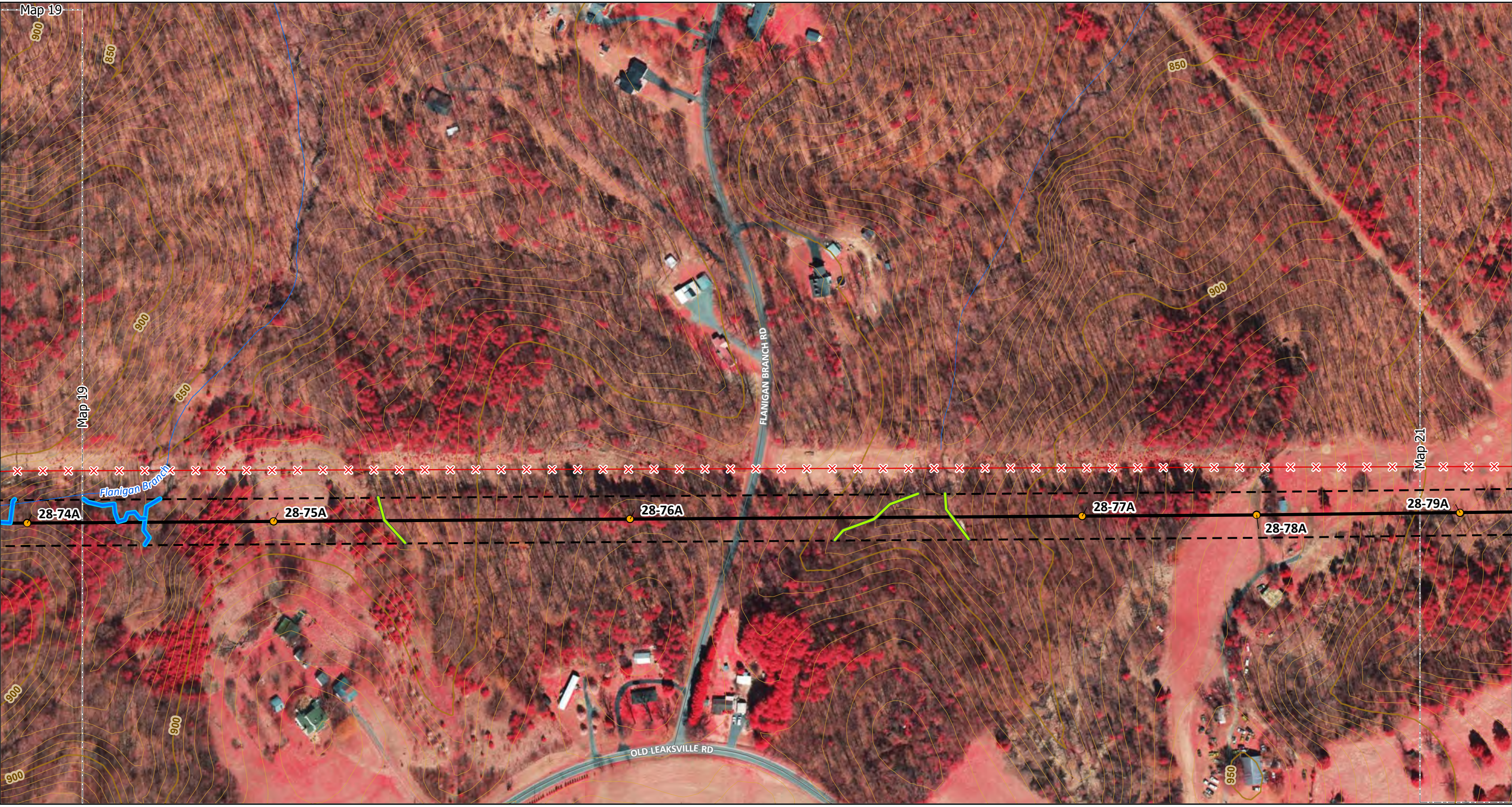
Date: 11/4/2021; Author: jhumiston; Project: 159105

**Map 19 of 26**  
**Desktop Wetland and Stream Delineation**  
Fieldale to Ridgeway 138 kV Rebuild Project

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Proposed AEP Structure	NHD Stream
Fieldale-Dan River 138 kV Line Proposed Route	Road
ROW (100')	Index Contour (50')
Existing Transmission Line to be Retired	Intermediate Contour (5')
High Probability Stream	Map Tile
Low Probability Stream	

Henry County, Virginia

0 100 200 400 Feet

1" = 200'

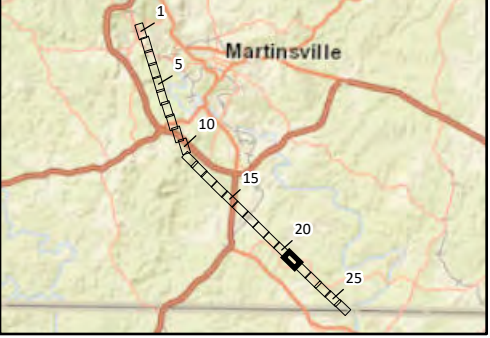
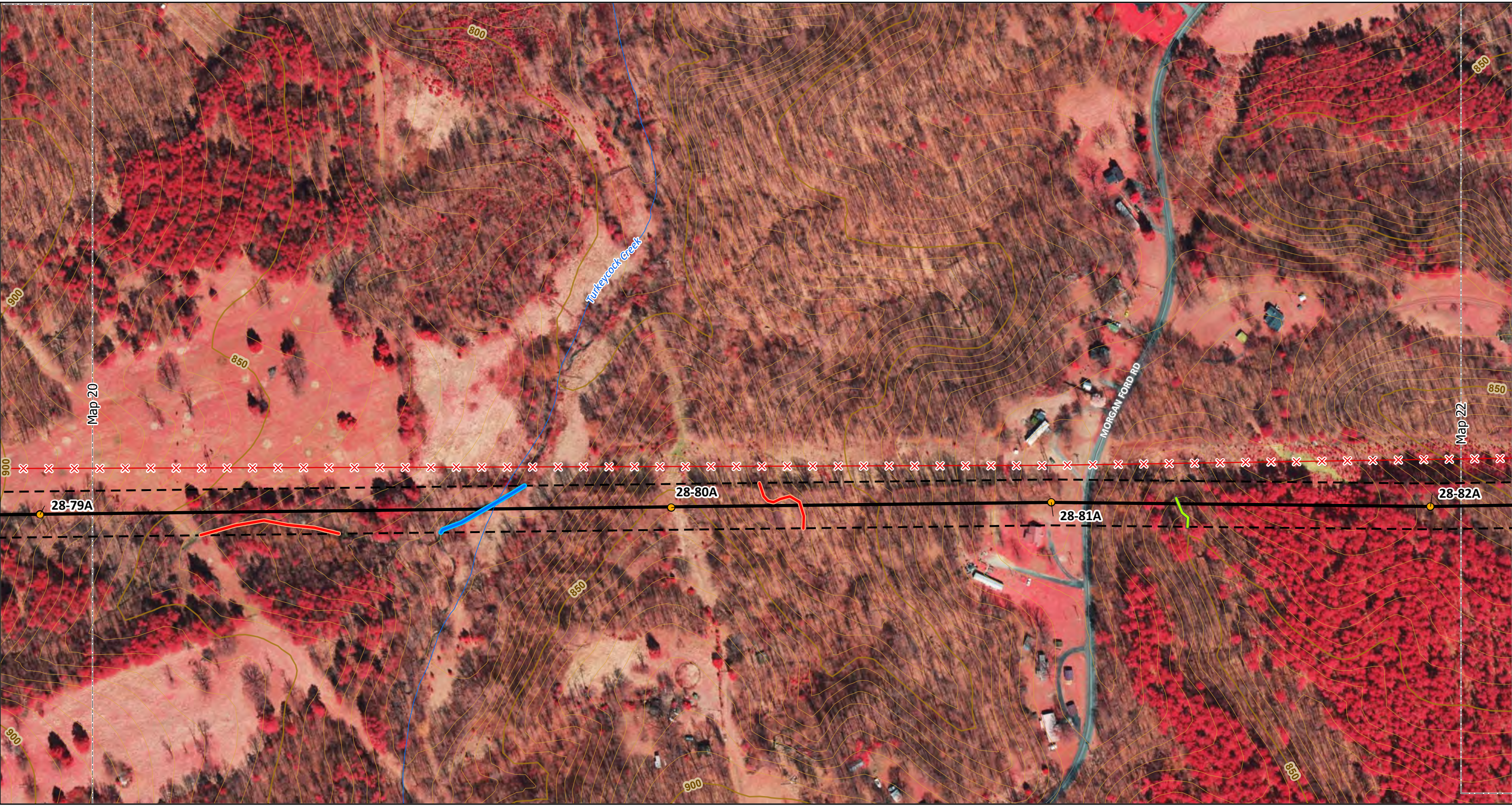
Date: 11/4/2021; Author: jhumiston; Project: 159105

**Map 20 of 26**  
**Desktop Wetland and Stream Delineation**  
 Fieldale to Ridgeway 138 kV Rebuild Project

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Proposed AEP Structure	Low Probability Stream
Fieldale-Dan River 138 kV Line Proposed Route	NHD Stream
ROW (100')	Road
Existing Transmission Line to be Retired	Index Contour (50')
High Probability Stream	Intermediate Contour (5')
Moderate Probability Stream	Map Tile

Henry County, Virginia

0 100 200 400  
Feet

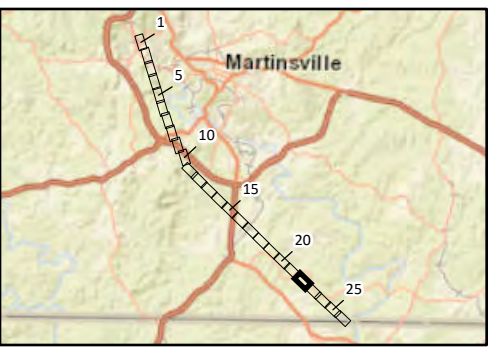
1" = 200'

Date: 11/4/2021; Author: jhumiston; Project: 159105


**Map 21 of 26**  
**Desktop Wetland and Stream Delineation**  
 Fieldale to Ridgeway 138 kV Rebuild Project

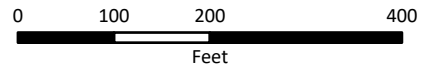
**APPALACHIAN POWER**  
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Proposed AEP Structure	Low Probability Stream
Fieldale-Dan River 138 kV Line Proposed Route	NHD Stream
ROW (100')	Road
Existing Transmission Line to be Retired	Index Contour (50')
High Probability Stream	Intermediate Contour (5')
Moderate Probability Stream	Map Tile


 Henry County,  
Virginia

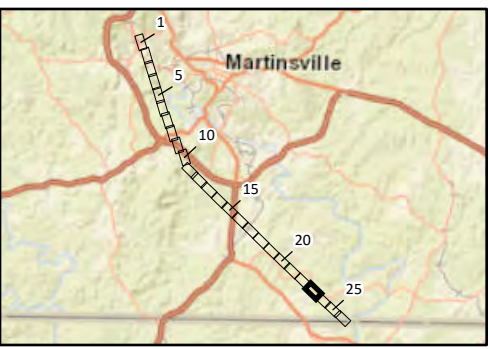
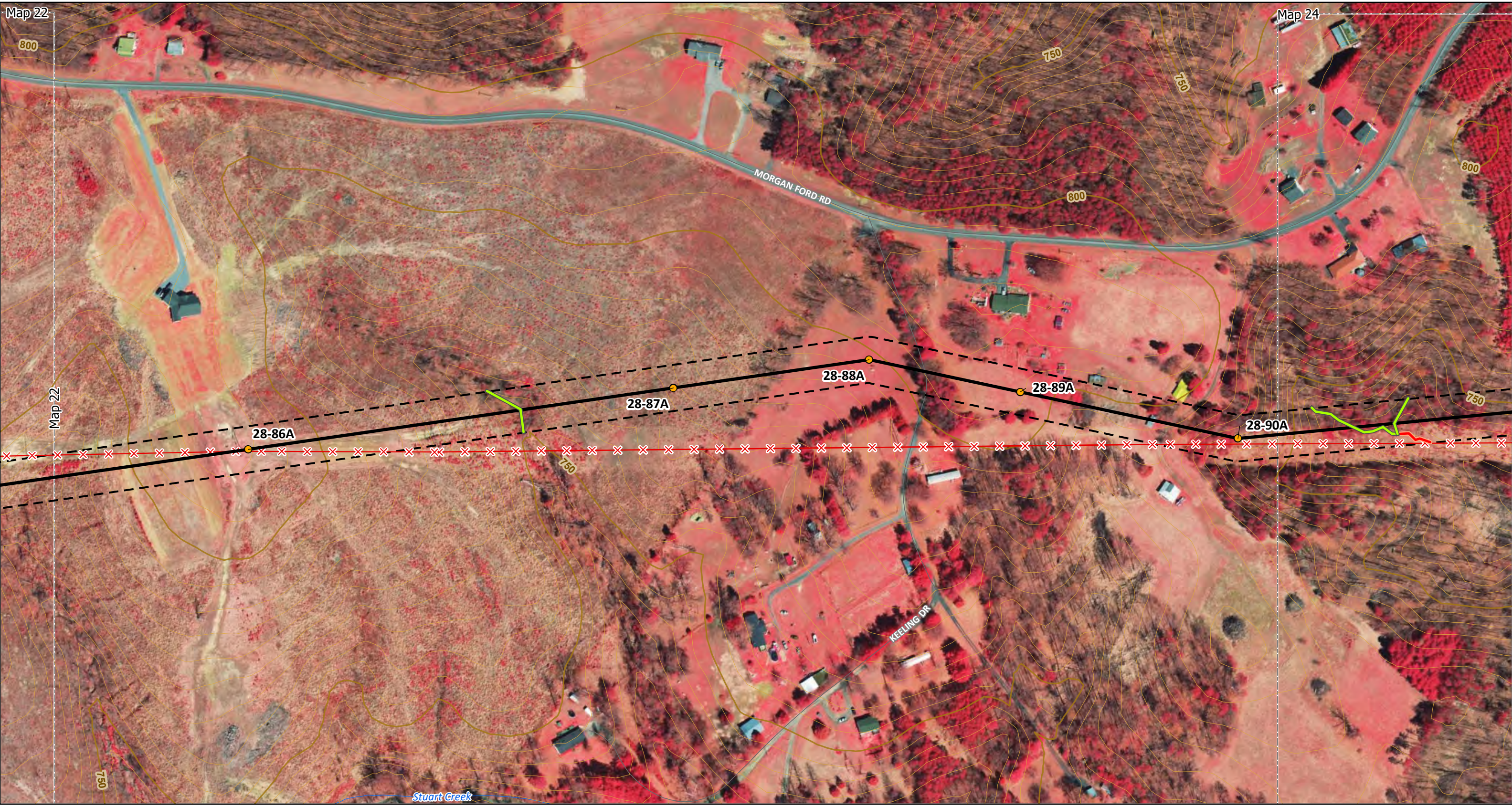
  
 1" = 200'

Date: 11/4/2021; Author: jhumiston; Project: 159105

**Map 22 of 26**  
**Desktop Wetland and Stream Delineation**  
 Fieldale to Ridgeway 138 kV Rebuild Project

  
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Proposed AEP Structure	NHD Stream
Fieldale-Dan River 138 kV Line Proposed Route	Road
ROW (100')	Index Contour (50')
Existing Transmission Line to be Retired	Intermediate Contour (5')
Moderate Probability Stream	Map Tile
Low Probability Stream	

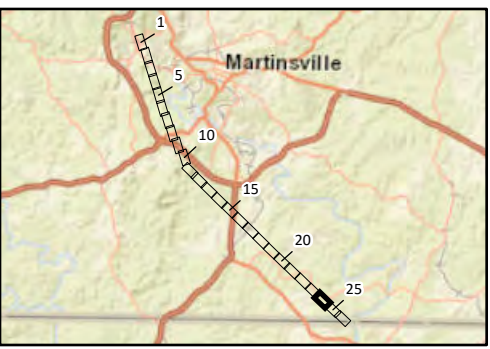
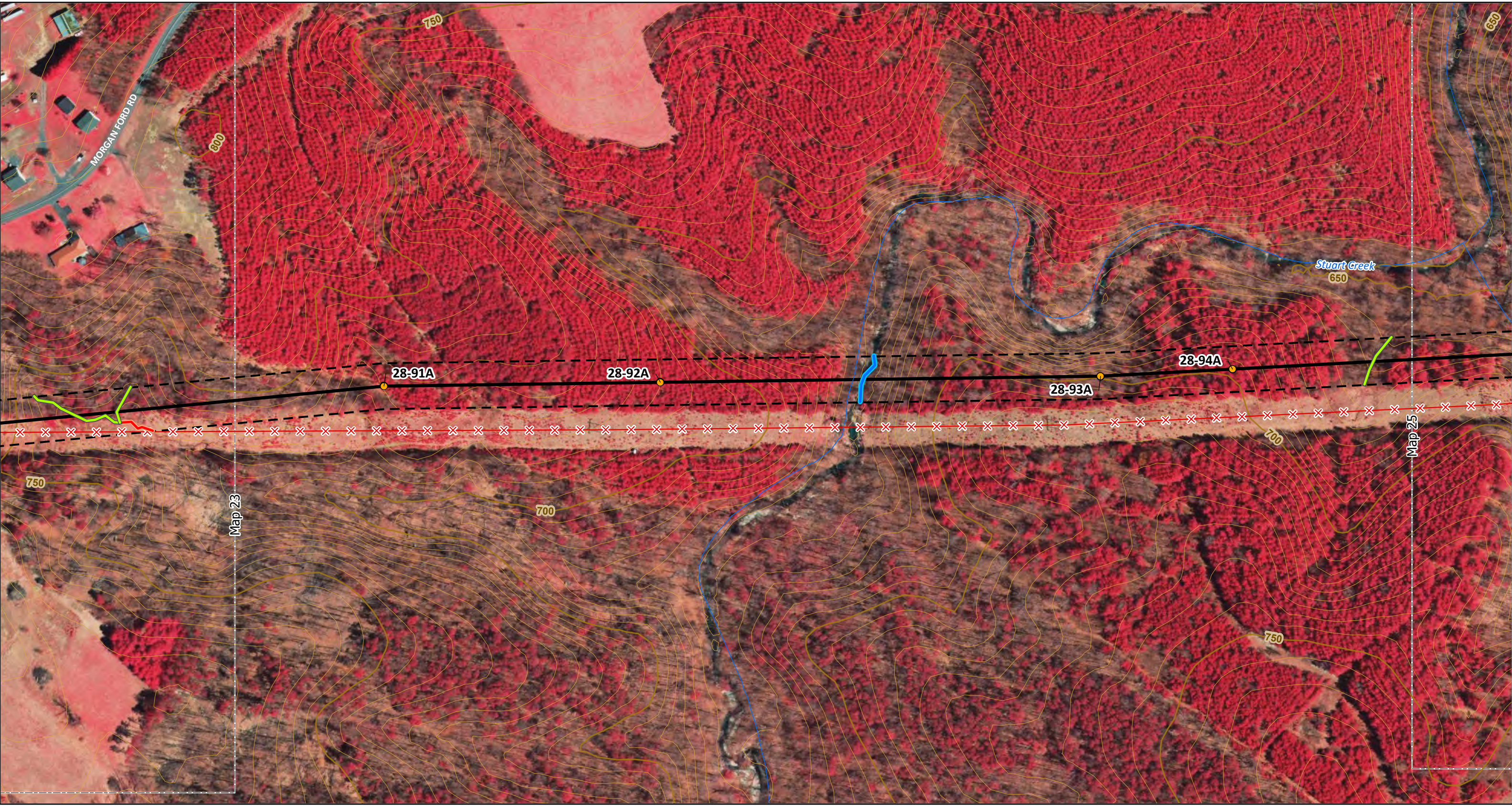
Henry County, Virginia  
 0 100 200 400  
 Feet  
 1" = 200'  
Date: 11/4/2021; Author: jhumiston; Project: 159105

**Map 23 of 26**  
**Desktop Wetland and Stream Delineation**  
 Fieldale to Ridgeway 138 kV Rebuild Project  
  
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Proposed AEP Structure	Low Probability Stream
Fieldale-Dan River 138 kV Line Proposed Route	NHD Stream
ROW (100')	Road
Existing Transmission Line to be Retired	Index Contour (50')
High Probability Stream	Intermediate Contour (5')
Moderate Probability Stream	Map Tile

Henry County, Virginia

0    100    200    400  
Feet

1" = 200'

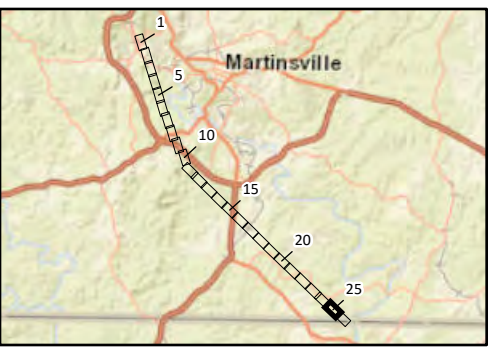
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**Map 24 of 26**  
**Desktop Wetland and Stream Delineation**  
Fieldale to Ridgeway 138 kV Rebuild Project

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Proposed AEP Structure	Low Probability Wetland
Fieldale-Dan River 138 kV Line Proposed Route	NHD Stream
ROW (100')	Index Contour (50')
Existing Transmission Line to be Retired	Intermediate Contour (5')
High Probability Stream	Map Tile
Low Probability Stream	

Henry County, Virginia

0    100    200    400  
Feet

1" = 200'

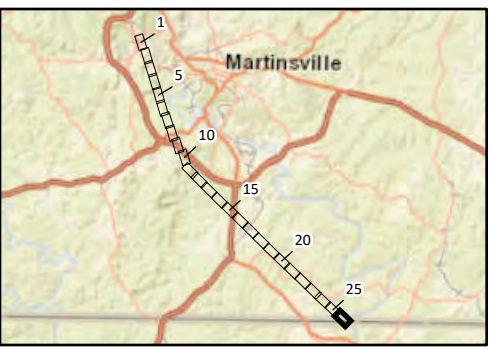
Date: 11/4/2021; Author: jhumiston; Project: 159105

**Map 25 of 26**  
Desktop Wetland and Stream Delineation  
Fieldale to Ridgeway 138 kV Rebuild Project

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Proposed AEP Structure	High Probability Stream	Intermediate Contour (5')
Existing AEP Structure	Low Probability Stream	County/State Boundary
Fieldale-Dan River 138 kV Line Proposed Route	NHD Stream	Map Tile
ROW (100')	Hydric Soils	Index Contour (50')
Existing Transmission Line to be Retired		

Henry County, Virginia

0 100 200 400  
Feet

1" = 200'

Date: 11/4/2021; Author: jhumiston; Project: 159105

**Map 26 of 26**  
**Desktop Wetland and Stream Delineation**  
 Fieldale to Ridgeway 138 kV Rebuild Project

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