Pike Energy Solutions, LLC

Facilities Planning and Siting Group

Visual Impact Assessment

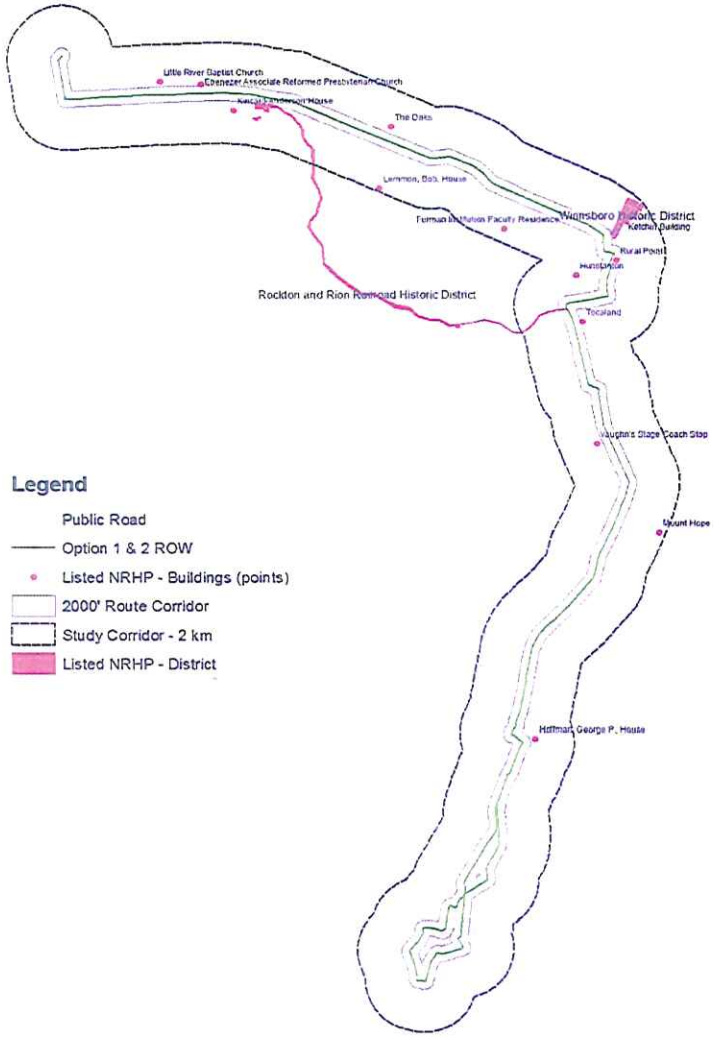
of NRHP-LISTED/Eligible Properties Within 2 km of the VCS1-Killian 230 kV Line

Visual Impact Assessment

On behalf of SCE&G, landscape architects and professional geographers of Pike Energy Solutions have conducted a study that analyzes the potential visual impact on National Register of Historic Places ("NHRP") properties and districts within 2 kilometers of the VCS1-Killian 230 kV line. This study not only includes objective data with the use of conservative digital terrain models and lines of sight to existing and proposed transmission structures, but also a subjective yet structured analysis of the regions scenic quality as outlined by the United States Bureau of Land Management ("BLM"). Results of digital models are field checked and verified.

Using the data derived from our research, models, and field visits we rated each of the properties individually (from no impact to high impact on a 0-10 scale) based on the potential for visible impact caused by the presence of the VCS1-Killian 230 kV line. This rating system was developed for no other reason than to condense the data for ease of communication as well as to isolate properties that may require further exploration.

Visual Impact Assessment



NRHP-LISTED Properties

George P. Hoffman House
Mount Hope Plantation
Vaughn's Stage Coach Shop
Tocaland
Hunstanton
Rural Point
Little River Baptist Church
Ebenezer A.R.P. Church
Kincaid-Anderson House
The Oaks
Bob Lemmon House
Furman Institution Faculty Residence
Ketchin Building

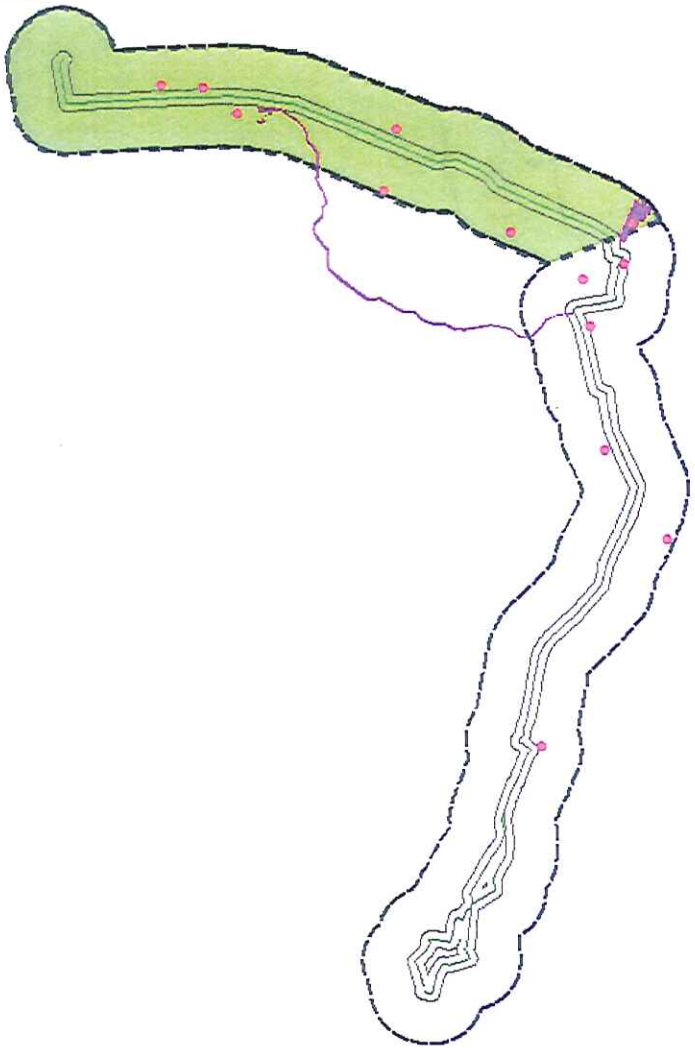
NRHP-Eligible Properties

Manigault-Ross House
Mount Zion Institute

NRHP-LISTED Districts

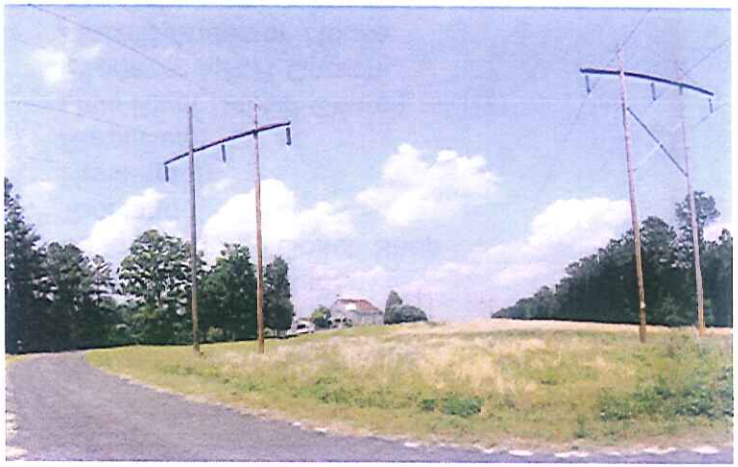
Rockton and Rion Railroad Historic District
Winnsboro Historic District

Current Structure Type: H-Frame

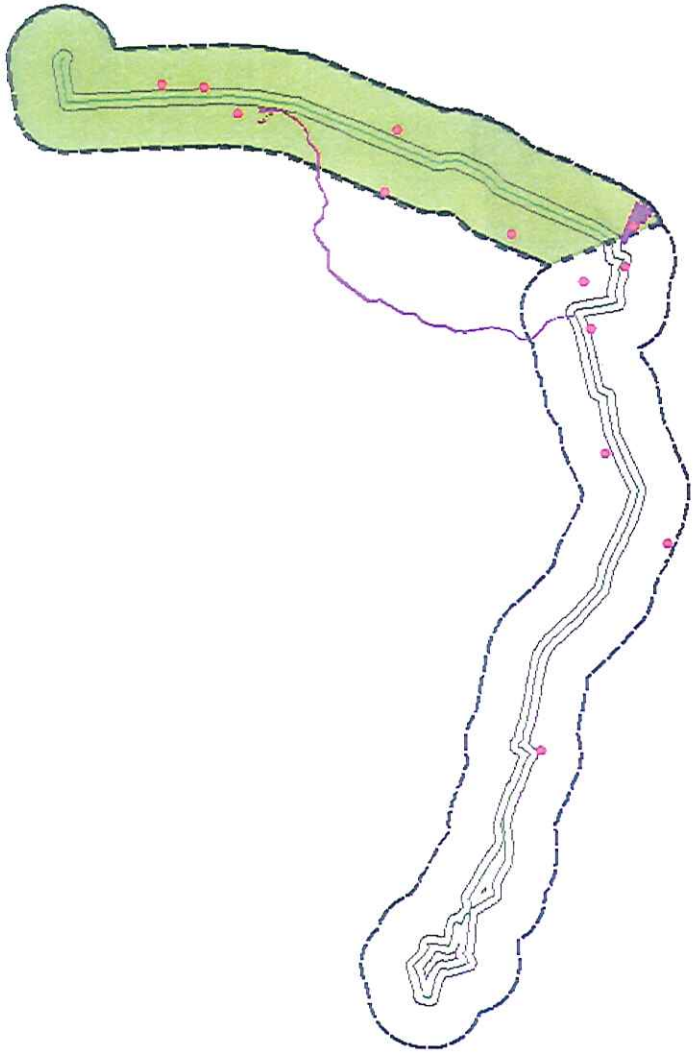


Location:
VC Summer Nuclear Plant to the Winnsboro Substation

Average Height:
Wooden Poles 45'



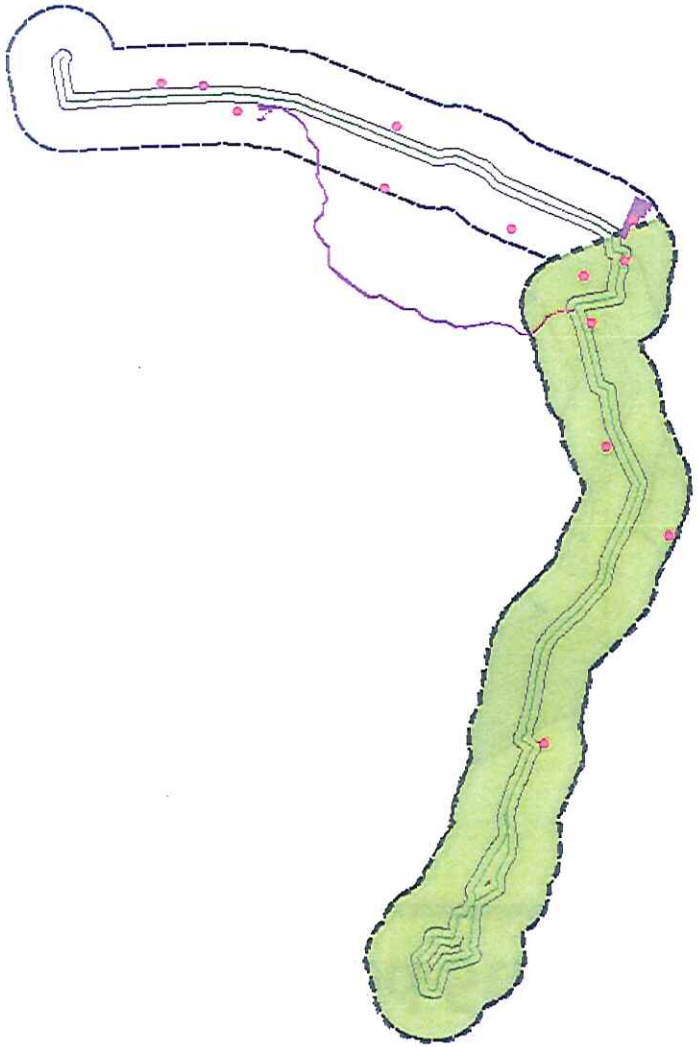
Proposed Structure Type: Steel Pole



Location:
VC Summer Nuclear Plant to the Winnsboro Substation

Average Height:
Steel or Concrete Poles 90'

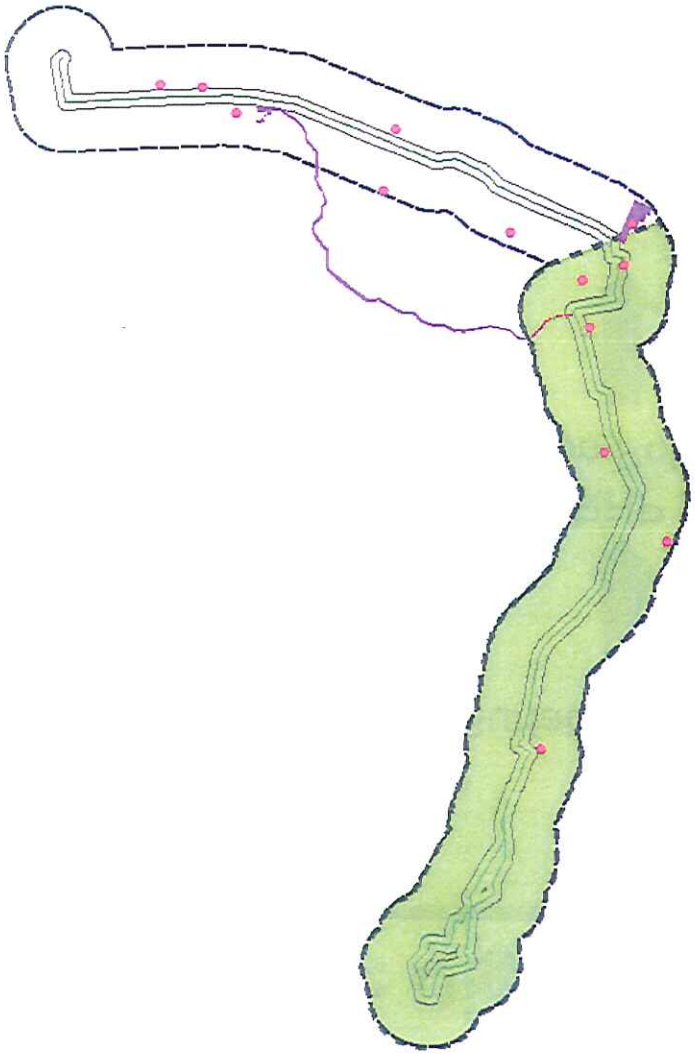
Current Structure Type: Steel Pole



Location:
Winnsboro Substation to Killian Substation

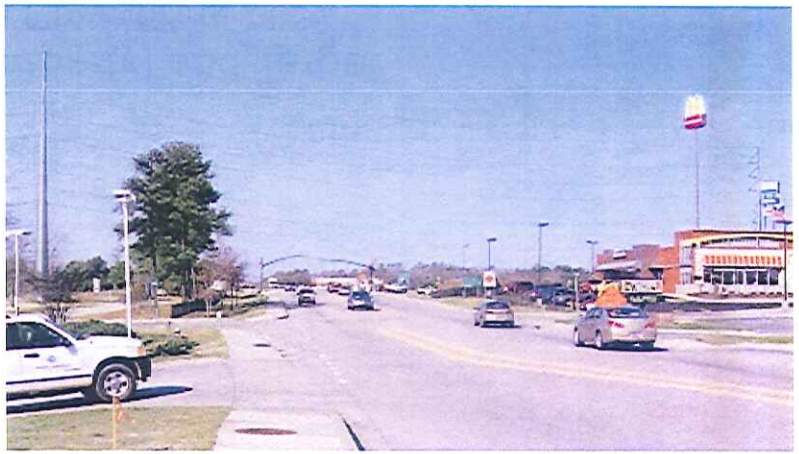
Average Height:
Steel or Concrete Poles 90'

Current Structure Type: Steel Pole



Location:
Winnsboro Substation to Killian Substation

Average Height:
Steel or Concrete Poles 120'



Process: Digital Terrain Model

Surface Creation

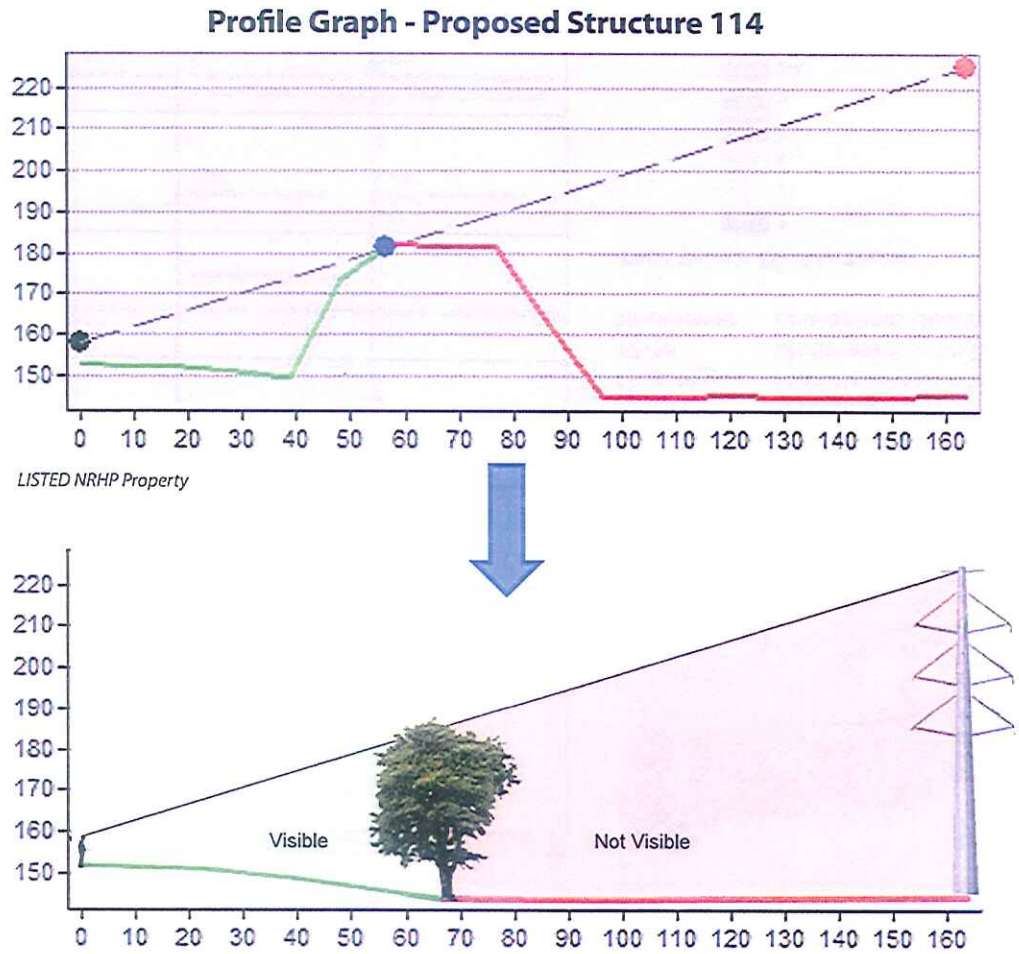
↓

Setting Observer (NRHP Property) and Target (Transmission Pole) Elevations

↓

Creating & Graphing Individual Lines of Sight

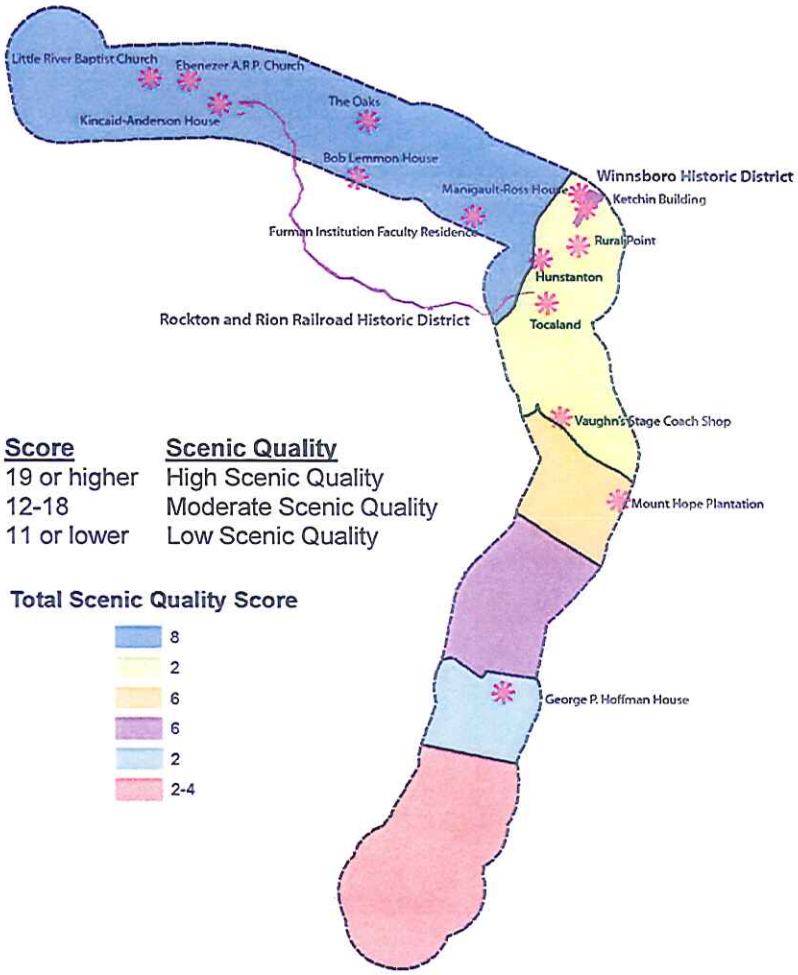
Process: Digital Terrain Model



Bureau of Land Management

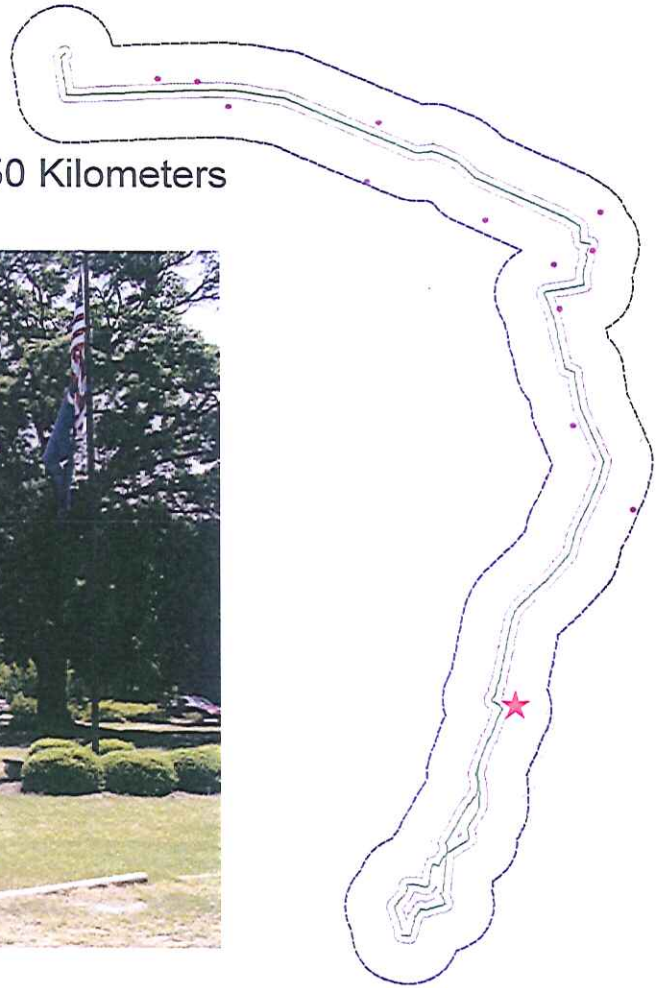
Scenic Quality of Property Assessment

Key factors	Rating Criteria and Score	Rating Criteria and Score	Rating Criteria and Score
Landform	High vertical relief as expressed in prominent cliffs, spires, or massive rock outcrops, or severe surface variation or highly eroded formations including major badlands or dune systems; or detail features dominant and exceptionally striking and intriguing such as glaciers. 5	Steep canyons, mesas, buttes, cinder cones, and drumlins; or interesting erosional patterns or variety in size and shape of landforms; or detail features which are interesting though not dominant or exceptional 3	Low rolling hills, foothills, or flat valley bottoms; or few or no interesting landscape features. 1
Vegetation	A variety of vegetative types as expressed in interesting forms, textures, and patterns. 5	Some variety of vegetation, but only one or two major types. 3	Little or no variety or contrast in vegetation. 1
Water	Clear and clean appearing, still, or cascading white water, any of which are a dominant factor in the landscape. 5	Flowing, or still, but not dominant in the landscape. 3	Absent, or present, but not noticeable. 0
Color	Rich color combinations, variety or vivid color; or pleasing contrasts in the soil, rock, vegetation, water or snow fields. 5	Some intensity or variety in colors and contrast of the soil, rock and vegetation, but not a dominant scenic element. 3	Subtle color variations, contrast, or interest; generally mute tones. 1
Influence of adjacent scenery	Adjacent scenery greatly enhances visual quality. 5	Adjacent scenery moderately enhances overall visual quality. 3	Adjacent scenery has little or no influence on overall visual quality. 0
Scarcity	One of a kind; or unusually memorable, or very rare within region. Consistent chance for exceptional wildlife or wildflower viewing, etc. • 5+	Distinctive, though somewhat similar to others within the region. 3	Interesting within its setting, but fairly common within the region. 1
Cultural modifications	Modifications add favorably to visual variety while promoting visual harmony. 2	Modifications add little or no visual variety to the area, and introduce no discordant elements. 0	Modifications add variety but are very discordant and promote strong disharmony. -4

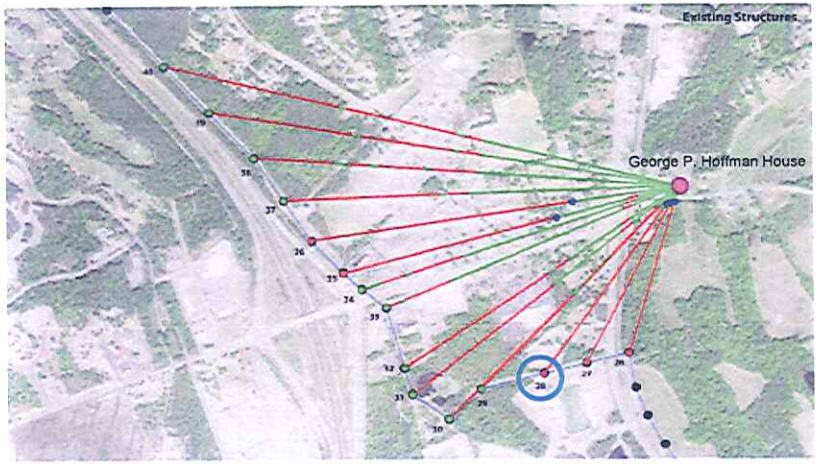


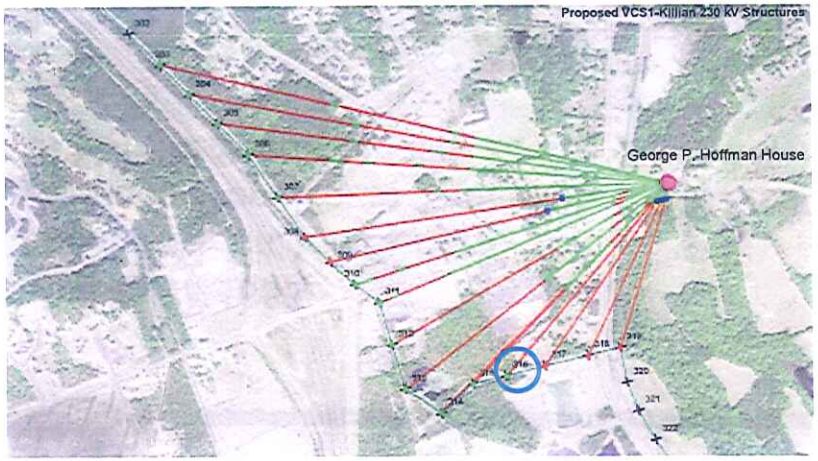
George P. Hoffman House, NRHP-LISTED

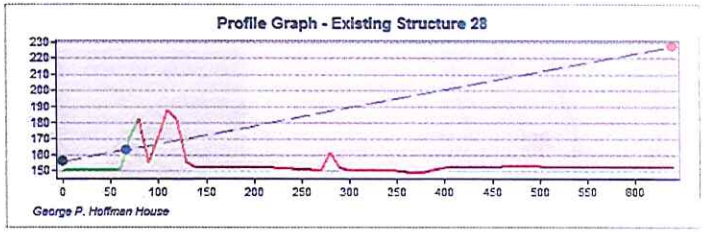
Year Built: 1855
Location: Richland County
Distance From Route Centerline: 0.31 Miles/ 0.50 Kilometers
BLM Total Scenic Quality Score: 2

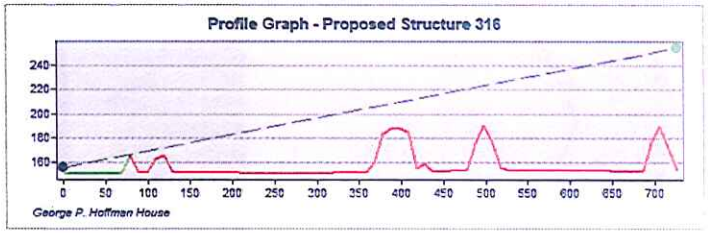


George P. Hoffman House, NRHP-LISTED









Total Structures Visible		Increase in Height	
Existing:	10	28(E) – 316(P):	+20'
Proposed:	12		

LEGEND

- Observer Location - 5' Vertical Elevation
- Target Location - Visible
- Target Location - Not Visible
- Field of Vision Surface Contact
- Visible Surface
- Not Visible Surface

Note: Profile Graphs are vertically and horizontally exaggerated.

George P. Hoffman House, NRHP-LISTED

Potential Visual Impact Rating

0 — 2 ——— 10

No Impact — High Impact

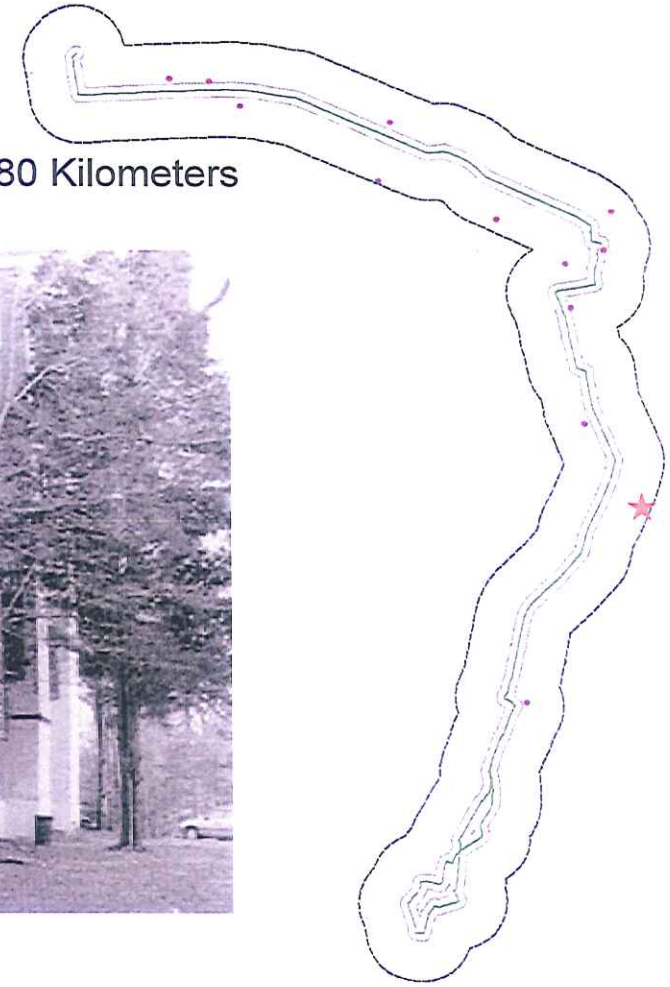
Direction of VCS1-Killian 230 kV Line: West

Panoramic Photograph

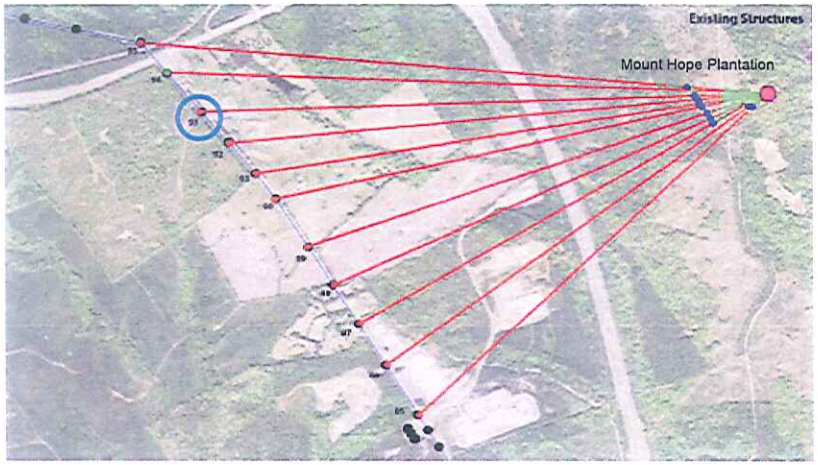
Now home to the Blythewood town hall, the George P. Hoffman House sits on the edge of the commercial district of town. Current viewsheds display a number of urban features including an adjacent railroad track, old and new commercial buildings, as well as a "web" of overhead distribution lines. While the digital terrain model shows up to 10 visible existing structures, none of these structures were actually visible from the sight due to some foreground screening and heavy midground screening from vegetation and buildings. While the dominantly deciduous tree cover may yield views to the proposed transmission structures located only 0.31 miles away, the urban and developed nature of the immediate area will likely prevent the view from diminishing the quality of the property.

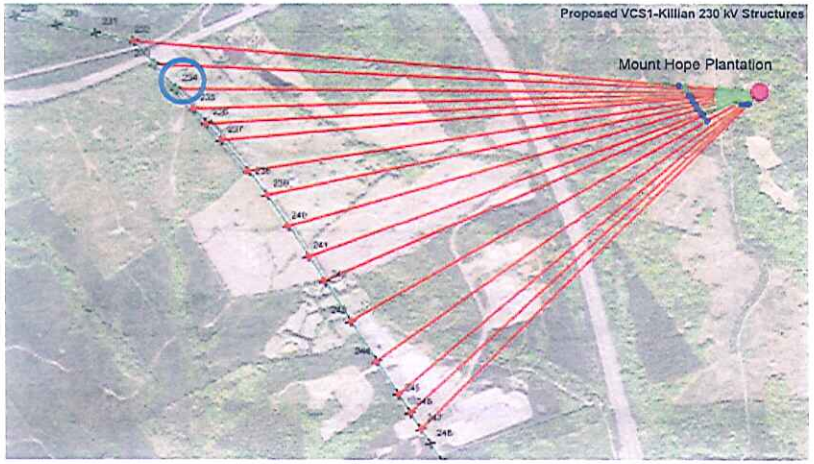
Mount Hope Plantation, NRHP-LISTED

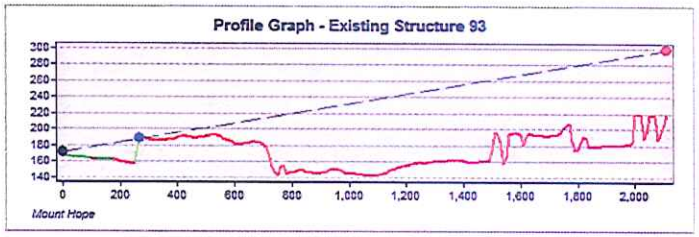
Year Built: 1836
Location: Fairfield County, SC
Distance From Route Centerline: 1.12 Miles/ 1.80 Kilometers
BLM Total Scenic Quality Score: 6

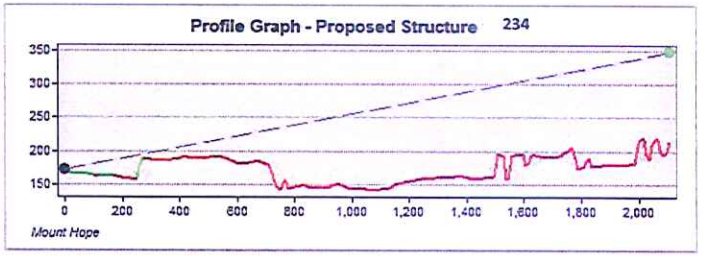


Mount Hope Plantation, NRHP-LISTED









Total Structures Visible		Increase in Height	
Existing:	1	93(E) – 234(P):	+25'
Proposed:	2		

LEGEND

- Observer Location - 5' Vertical Elevation
- Target Location - Visible
- Target Location - Not Visible
- Field of Vision Surface Contact
- Visible Surface
- Not Visible Surface

Note: Profile Graphs are vertically and horizontally exaggerated.

Mount Hope Plantation, NRHP-LISTED

Potential Visual Impact Rating

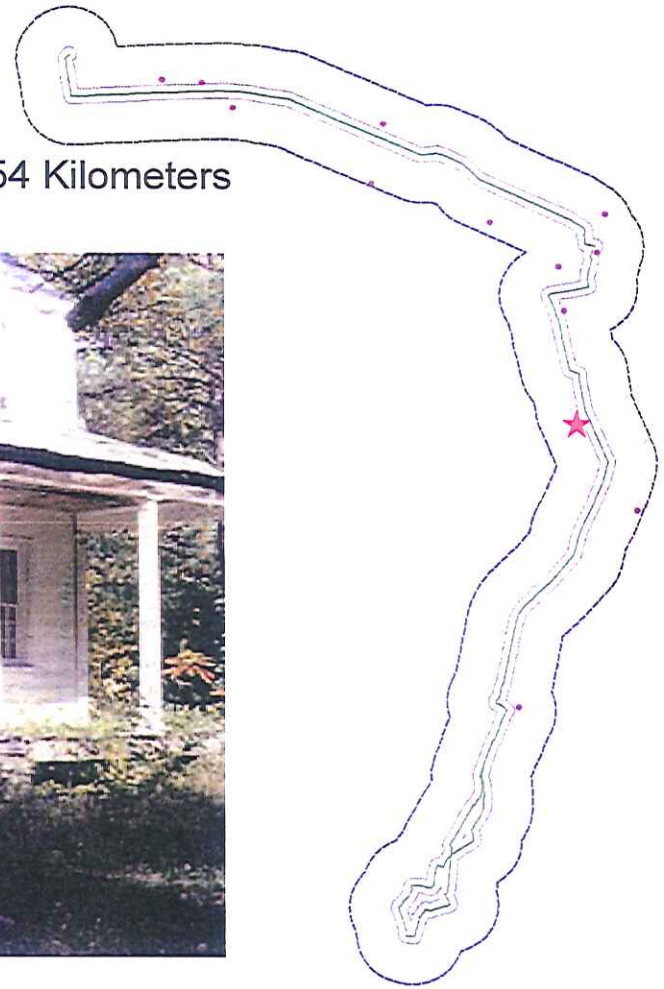
0 — 1 ———————— 10

No Impact — High Impact

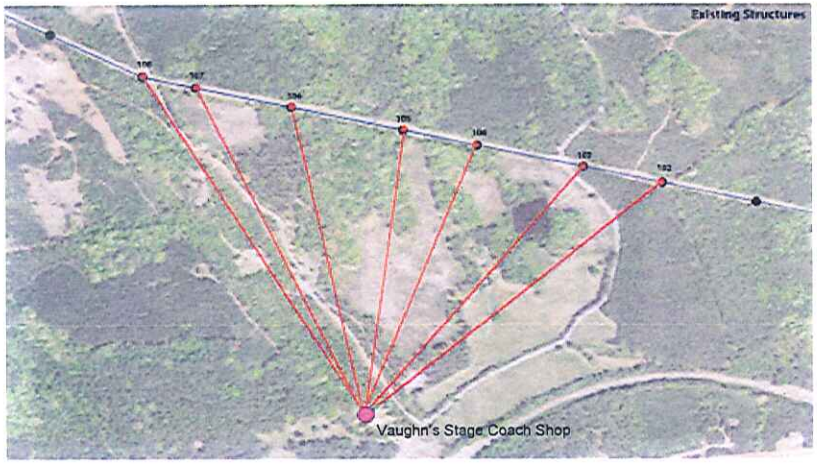
Mount Hope Plantation was not directly visited during the field study. The area is characterized by farmland, pastureland, and a dense mix of hardwood/evergreen forests. The digital terrain model displayed one existing structure visible and three additional proposed transmission structures visible. However, taking into account the landcover from satellite imagery, the results of the digital terrain model, and the distance (1.12 miles at its closest point), we can confidently infer that the existing and proposed transmission lines will not be visible. Our previous studies show that transmission lines that are ¾ of a mile away or more are not easily identifiable and tend to not affect the visual quality of a property.

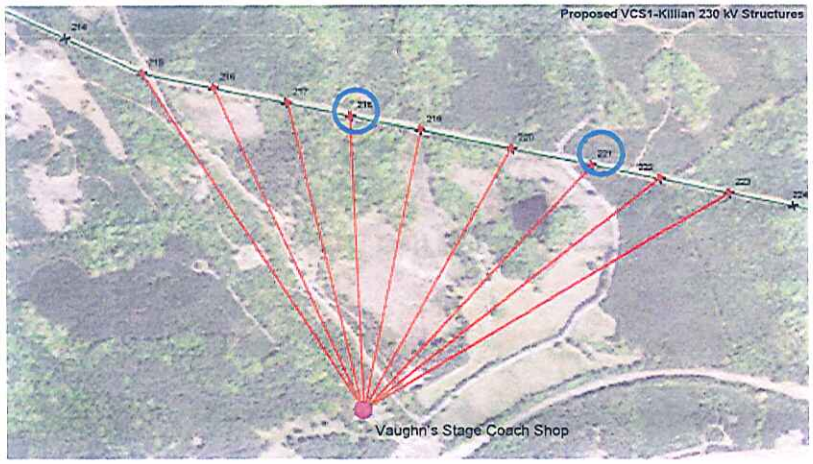
Vaughn's Stage Coach Shop, NRHP-LISTED

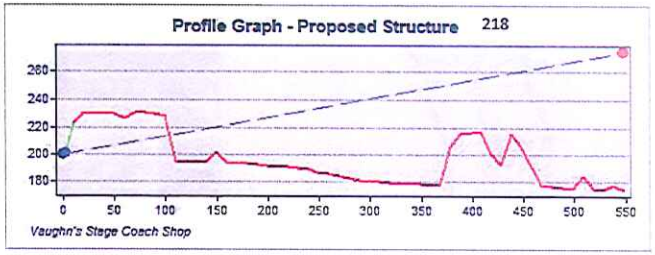
Year Built: 1820
Location: Fairfield County, SC
Distance From Route Centerline: 0.34 Miles/ 0.54 Kilometers
BLM Total Scenic Quality Score: 6

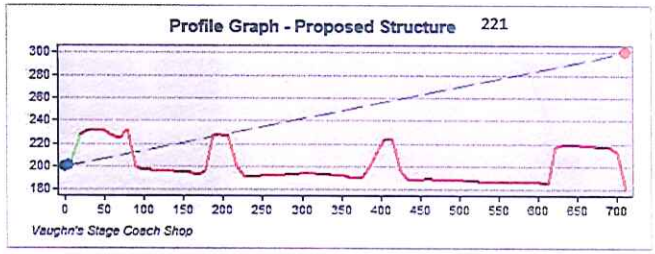


Vaughn's Stage Coach Shop, NRHP-LISTED









Total Structures Visible		Increase in Height
Existing:	0	N/A (Both Not Visible)
Proposed:	0	

LEGEND

- Observer Location - 5' Vertical Elevation
- Target Location - Visible
- Target Location - Not Visible
- Field of Vision Surface Contact
- Visible Surface
- Not Visible Surface

Note: Profile Graphs are vertically and horizontally exaggerated.

Vaughn's Stage Coach Shop, NRHP-LISTED

Potential Visual Impact Rating

0 — 1 ——————— 10

No Impact — High Impact

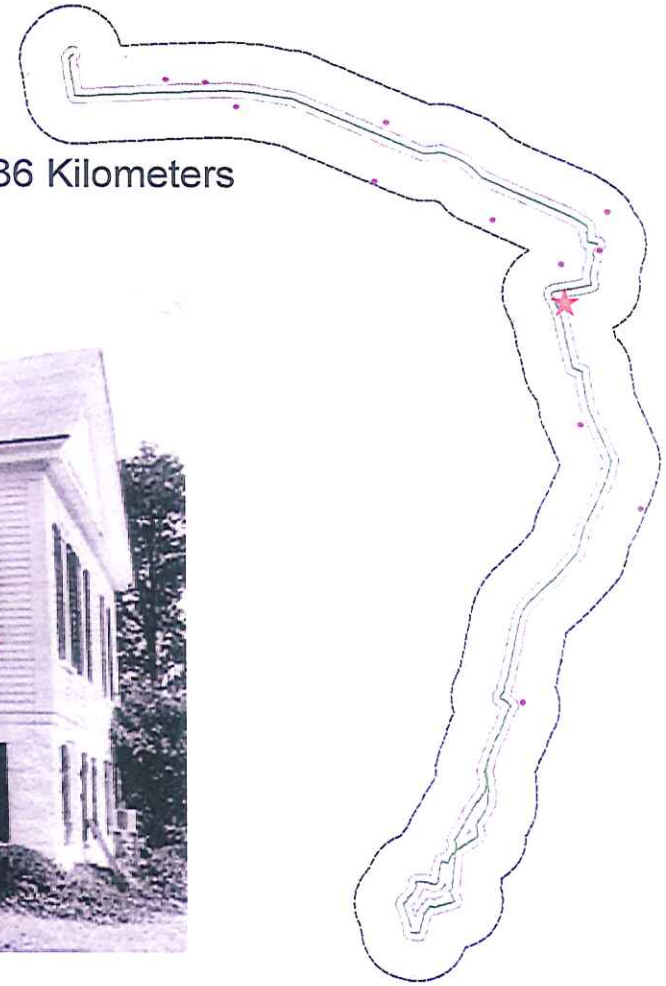
Located a short distance off Highway 34 in rural Fairfield County, the Vaughn's Stage Coach Shop sits in an area characterized primarily by dense mix of hardwood/evergreen forests. No existing transmission structures could be seen from the property and due to the heavy amounts of foreground screening it is highly unlikely that proposed transmission structures would be visible as well. However, the relatively long viewsheds from this property warrant some concern on the Potential Visual Impact Rating scale.

Direction of VCS1-Killian 230 kV Line: North

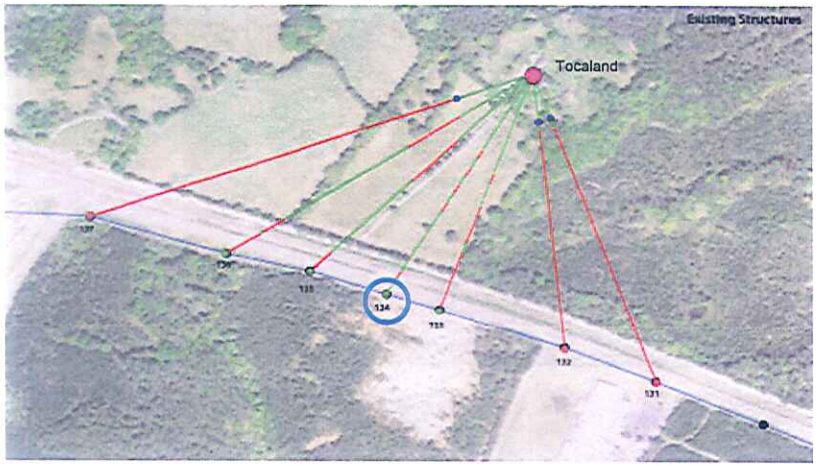
Panoramic Photograph

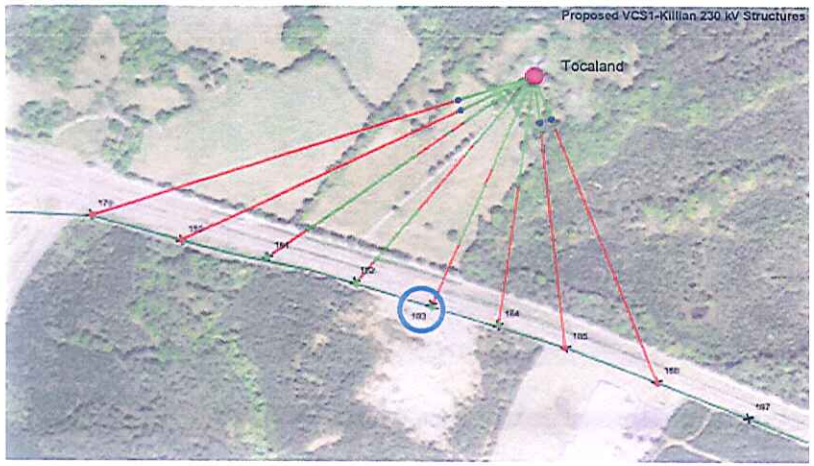
Tocaland, NRHP-LISTED

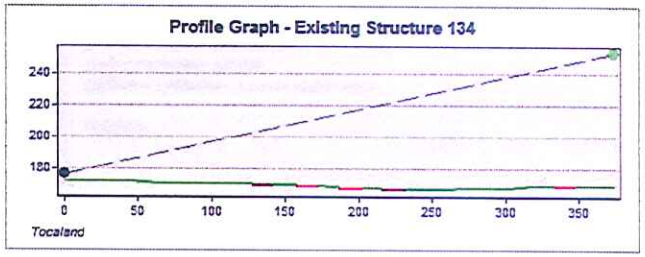
Year Built: 1854
Location: Fairfield County, SC
Distance From Route Centerline: 0.22 Miles/ 0.36 Kilometers
BLM Total Scenic Quality Score: 2

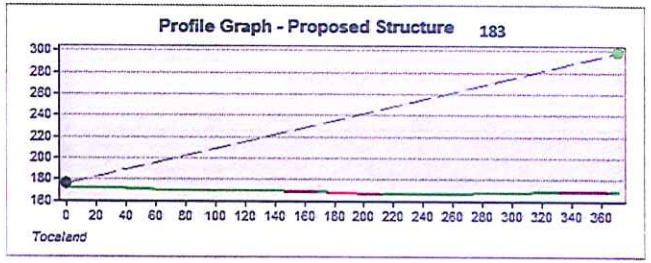


Tocaland, NRHP-LISTED









Total Structures Visible
Existing: 4
Proposed: 4

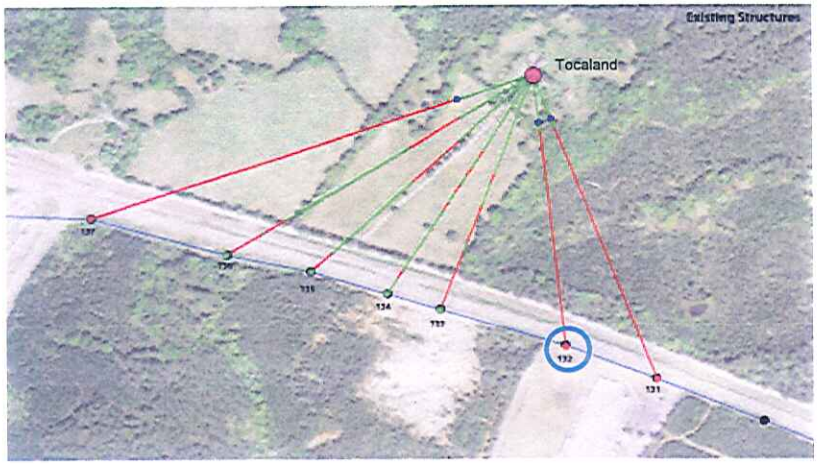
Increase in Height
134(E) – 183(P): +20'

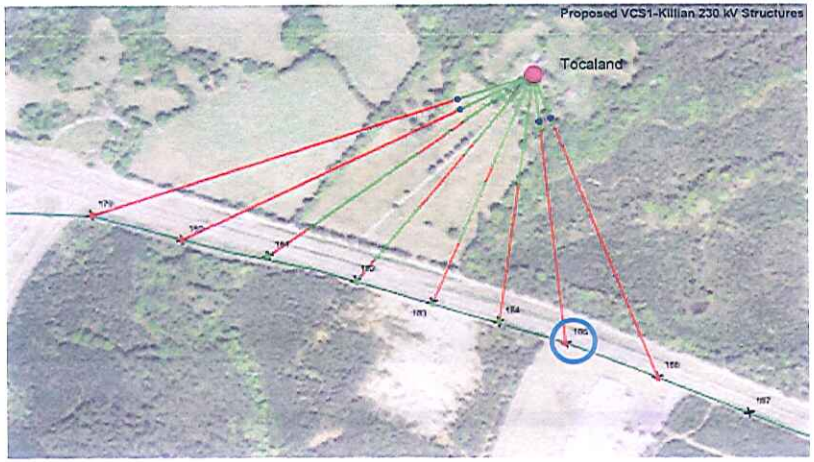
LEGEND

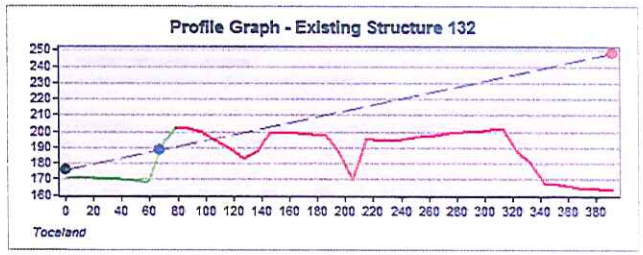
- Observer Location - 5' Vertical Elevation
- Target Location - Visible
- Target Location - Not Visible
- Field of Vision Surface Contact
- Visible Surface
- Not Visible Surface

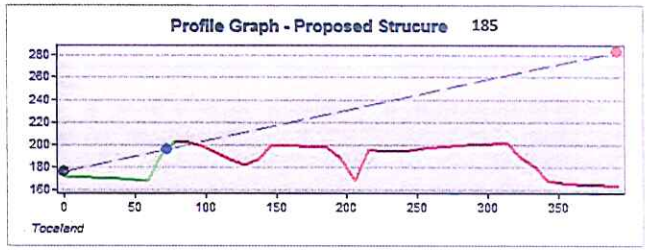
Note: Profile Graphs are vertically and horizontally exaggerated.

Tocaland, NRHP-LISTED









Total Structures Visible	Increase in Height
Existing: 4	N/A (Both Not Visible)
Proposed: 4	

LEGEND

- Observer Location - 5' Vertical Elevation
- Target Location - Visible
- Target Location - Not Visible
- Field of Vision Surface Contact
- Visible Surface
- Not Visible Surface

Note: Profile Graphs are vertically and horizontally exaggerated.

Tocaland, NRHP-LISTED

Potential Visual Impact Rating

0 — 3 — 10

No Impact — High Impact

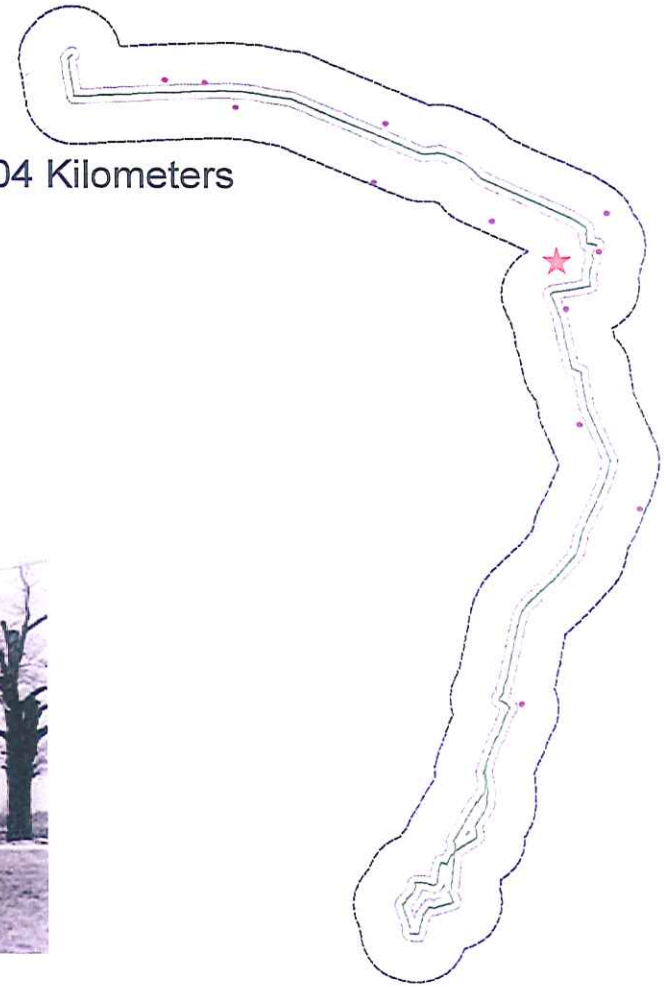
Direction of VCS1-Killian 230 kV Line: Southeast

Panoramic Photograph

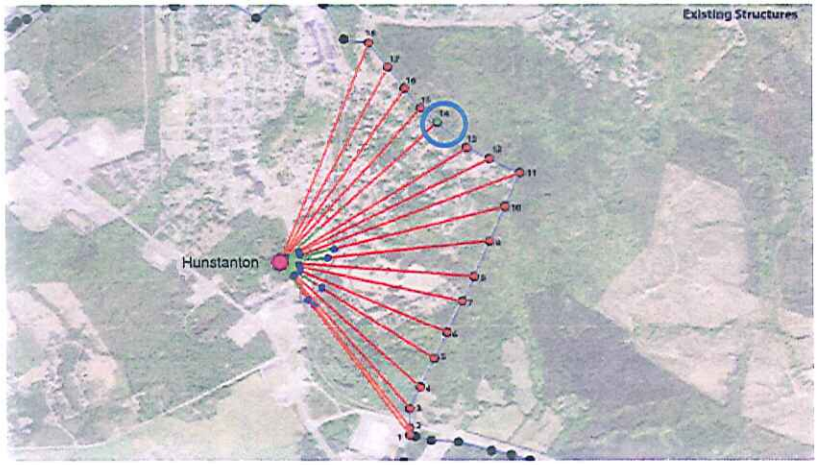
The Tocaland house sits at the end of a long gravel driveway facing Highway 34 and the existing parallel transmission route. The property is characterized by mature hardwoods and evergreens scattered in a front pasture with dense forests on the sides and rear of the property. While the top 10% of the existing structures are visible from an observation area approximately 100 feet in front of the house, they are barely recognizable due to the verticality and similar height of the pines in the distant scene. Increases in height of proposed transmission structures will likely be evident from this and any location closer to the road. However it should be noted that due to foreground screening of mature hardwoods directly in front of the house visual impacts of existing or proposed transmission structures from the house itself would be minimal at best.

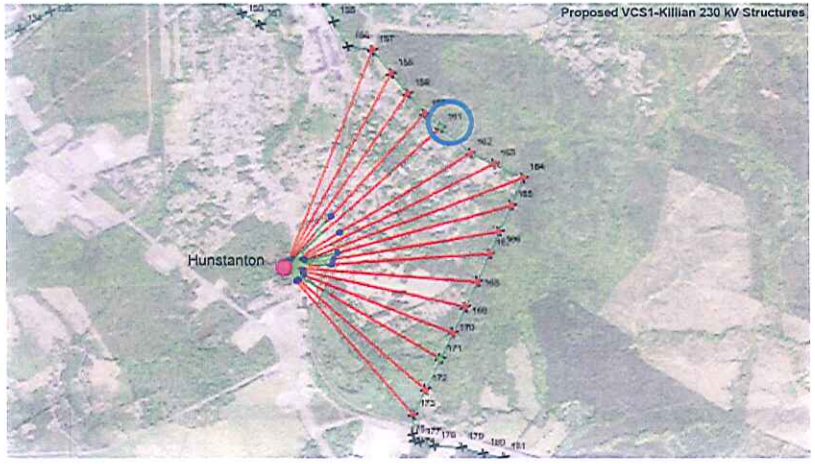
Hunstanton, NRHP-LISTED

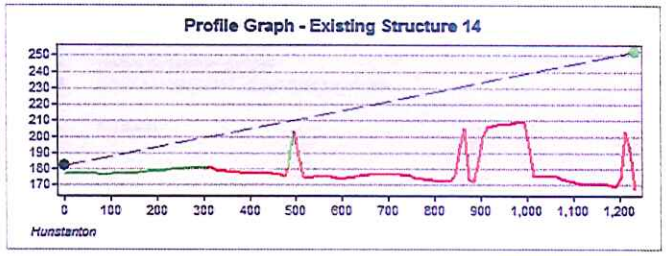
Year Built: 1850
Location: Fairfield County, SC
Distance From Route Centerline: 0.65 Miles/ 1.04 Kilometers
BLM Total Scenic Quality Score: 2

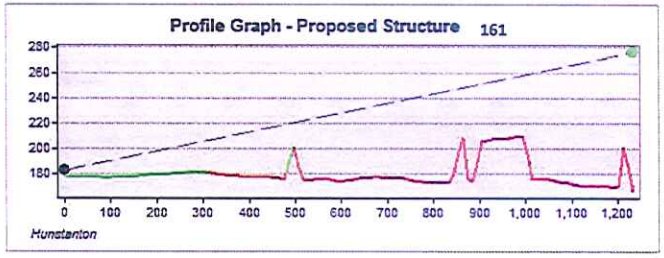


Hunstanton, NRHP-LISTED









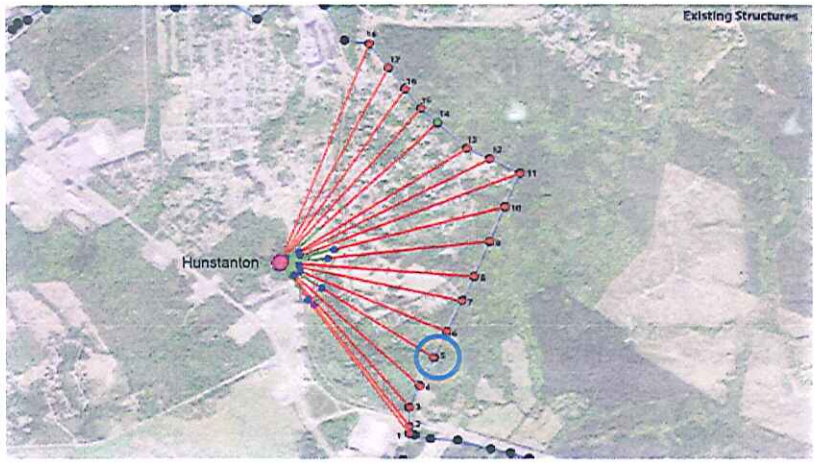
Total Structures Visible		Increase in Height	
Existing:	1	14(E) – 161(P):	+30'
Proposed:	2		

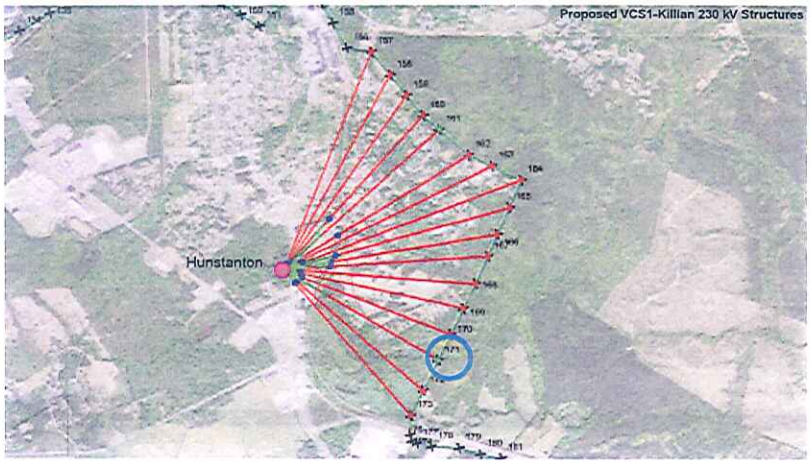
LEGEND

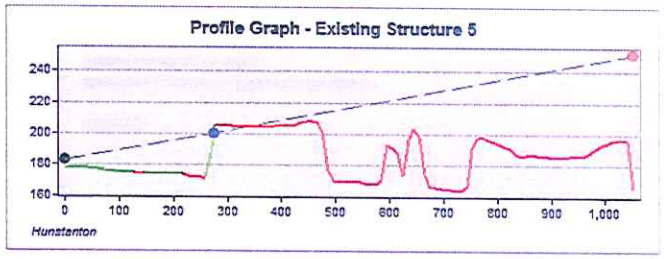
- Observer Location - 5' Vertical Elevation
- Target Location - Visible
- Target Location - Not Visible
- Field of Vision Surface Contact
- Visible Surface
- Not Visible Surface

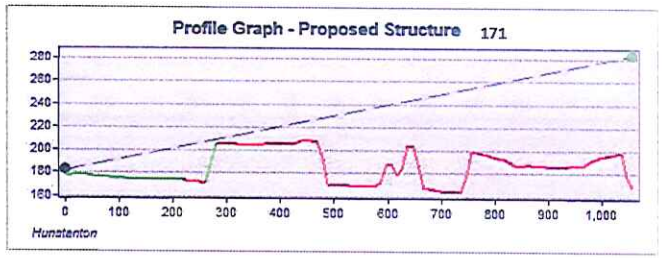
Note: Profile Graphs are vertically and horizontally exaggerated.

Hunstanton, NRHP-LISTED









Total Structures Visible		Increase in Height	
Existing:	1	5(E) – 171(P):	+15'
Proposed:	2		

LEGEND

- Observer Location - 5' Vertical Elevation
- Target Location - Visible
- Target Location - Not Visible
- Field of Vision Surface Contact
- Visible Surface
- Not Visible Surface

Note: Profile Graphs are vertically and horizontally exaggerated.

Hunstanton, NRHP-LISTED

Potential Visual Impact Rating

0 — 1 ——————— 10

No Impact — High Impact

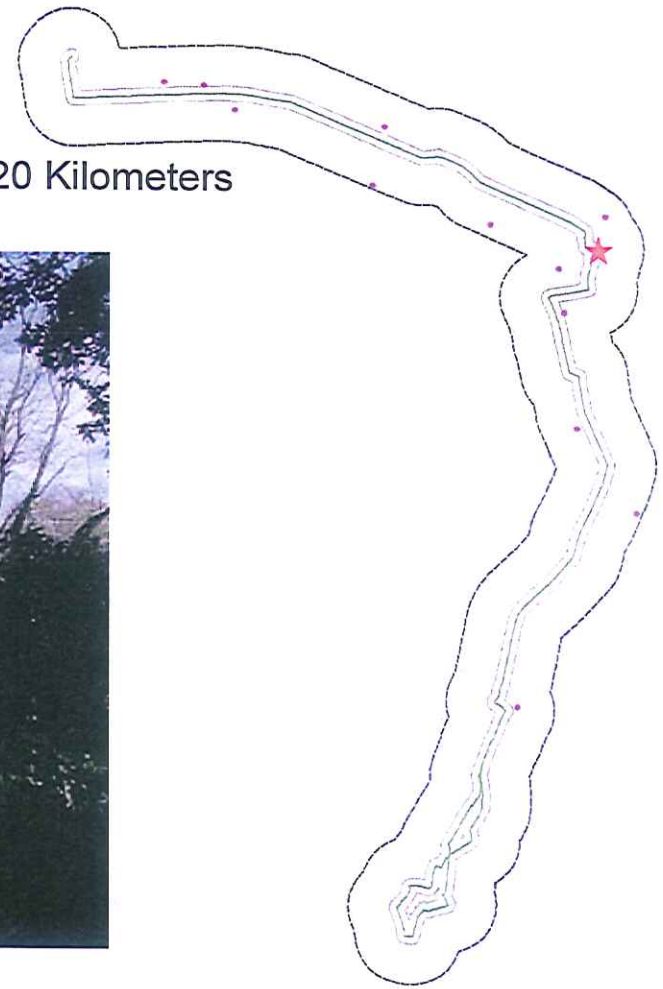
Hunstanton is now home to the Fairfield Animal Hospital and is located in an area that appears to contain low-income housing units and across the street from a local diner and old commercial/storage buildings. According to the digital terrain model one existing transmission structure was visible along with 2 additional proposed transmission structures. Further investigation in the field revealed that no existing transmission structures were visible from the property and no proposed transmission structures are expected to be visible due to heavy foreground screening on the sides and rear and with moderate foreground screening in the front.

Direction of VCS1-Killian 230 kV Line: East

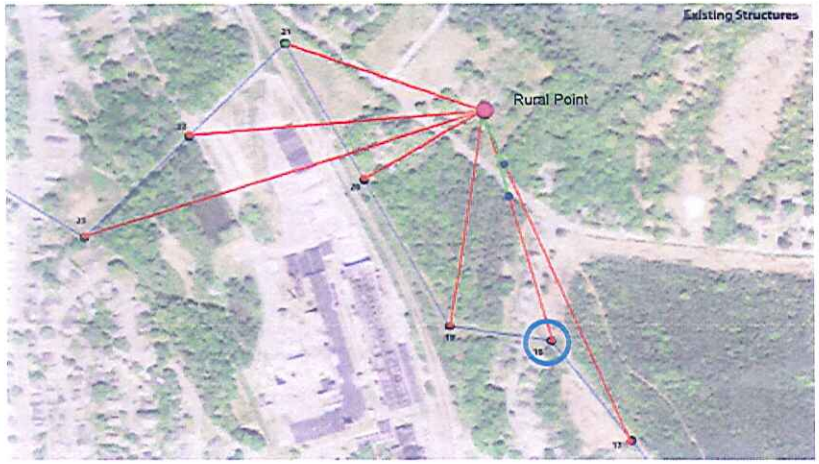
Panoramic Photograph

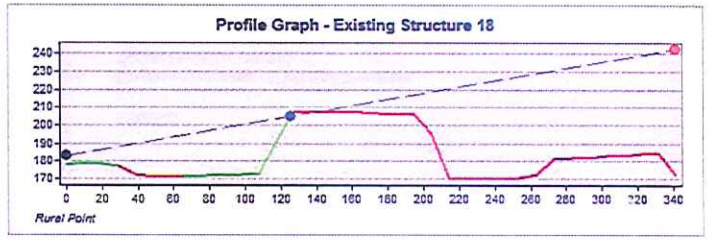
Rural Point, NRHP-LISTED

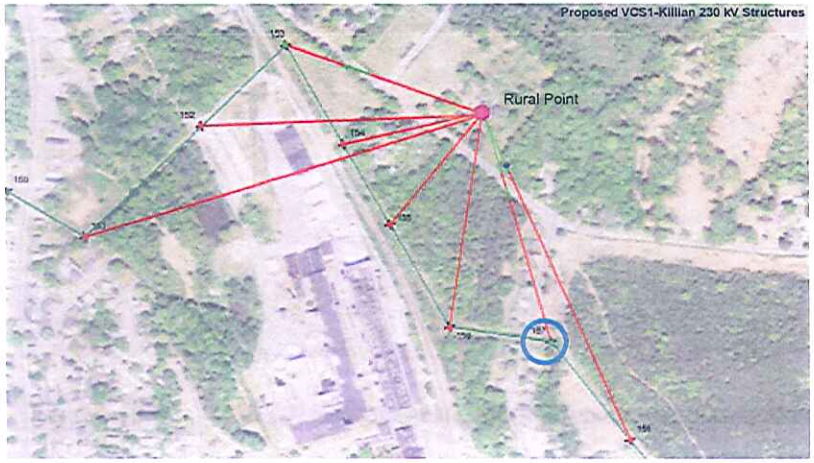
Year Built: 1852
Location: Fairfield County, SC
Distance From Route Centerline: 0.12 Miles/ 0.20 Kilometers
BLM Total Scenic Quality Score: 2

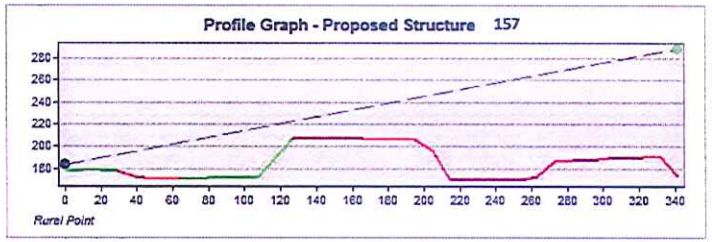


Rural Point, NRHP-LISTED









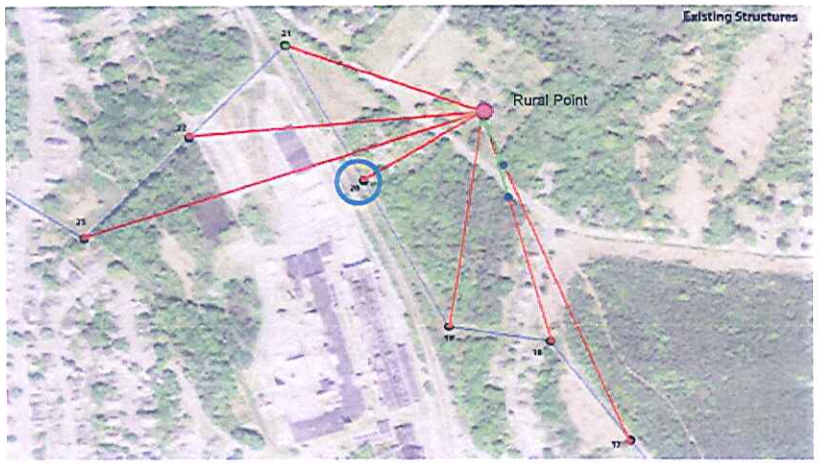
Total Structures Visible	Increase in Height
Existing: 1	18(E) – 157 (P): 40'
Proposed: 2	

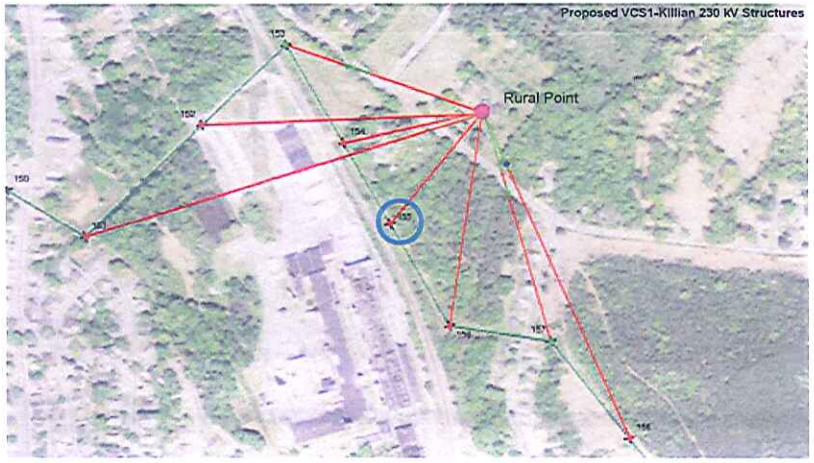
LEGEND

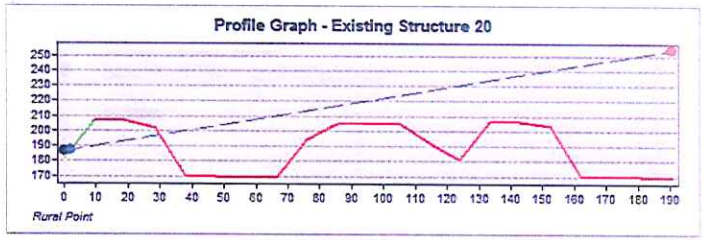
- Observer Location - 5' Vertical Elevation
- Target Location - Visible
- Target Location - Not Visible
- Field of Vision Surface Contact
- Visible Surface
- Not Visible Surface

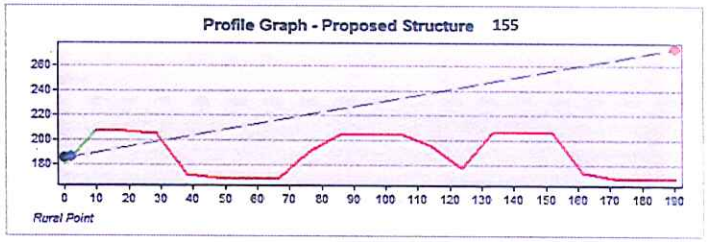
Note: Profile Graphs are vertically and horizontally exaggerated.

Rural Point, NRHP-LISTED









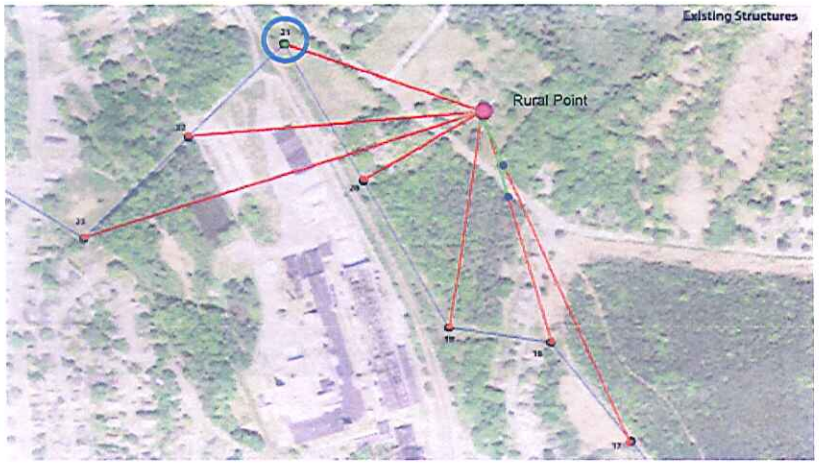
Total Structures Visible	Increase in Height
Existing: 1	N/A (Both Not Visible)
Proposed: 2	

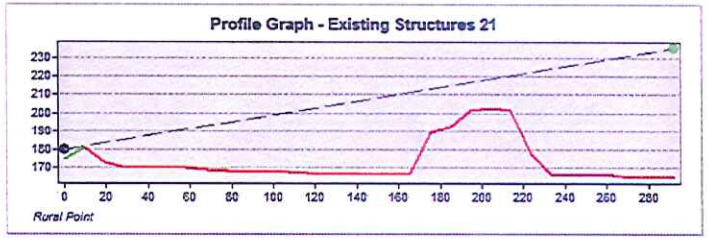
LEGEND

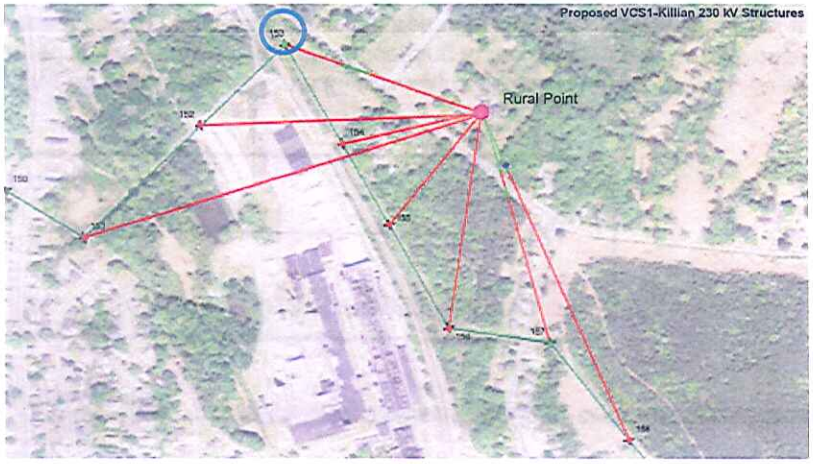
- Observer Location - 5' Vertical Elevation
- Target Location - Visible
- Target Location - Not Visible
- Field of Vision Surface Contact
- Visible Surface
- Not Visible Surface

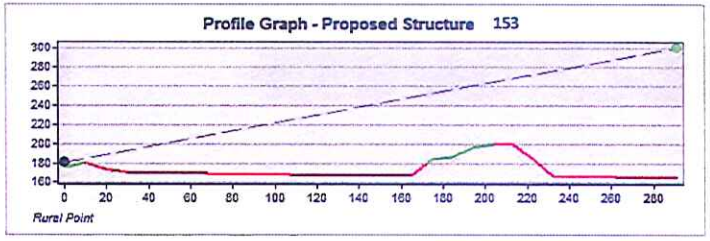
Note: Profile Graphs are vertically and horizontally exaggerated.

Rural Point, NRHP-LISTED









Total Structures Visible	Increase in Height
Existing: 1	21(E) – 153(P): +20'
Proposed: 2	

LEGEND

- Observer Location - 5' Vertical Elevation
- Target Location - Visible
- Target Location - Not Visible
- Field of Vision Surface Contact
- Visible Surface
- Not Visible Surface

Note: Profile Graphs are vertically and horizontally exaggerated.

Rural Point, NRHP-LISTED

Potential Visual Impact Rating

0 — 2 — 10

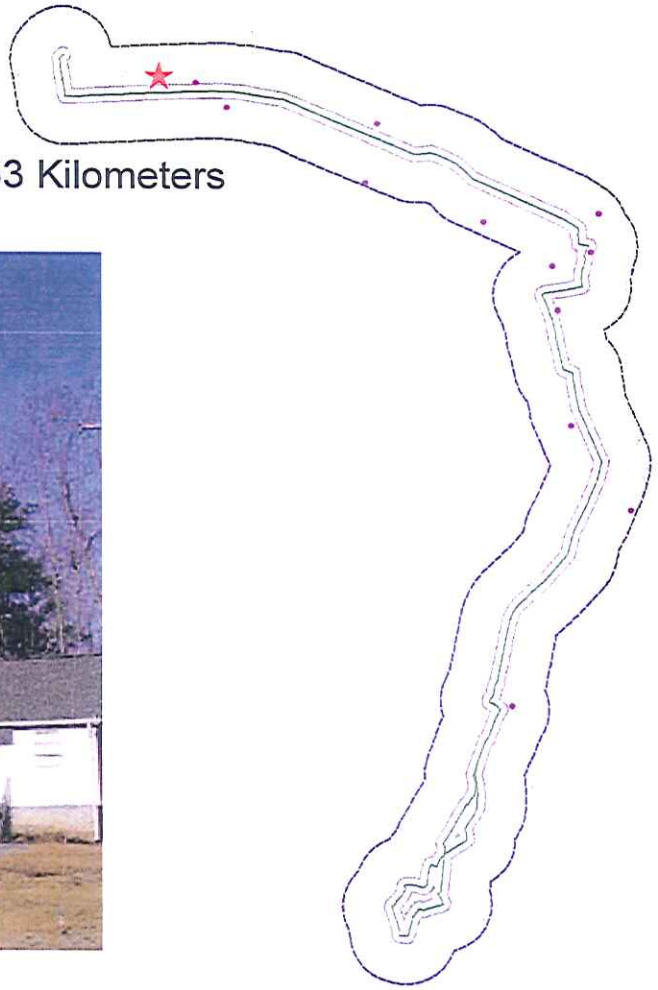
No Impact — High Impact

This property is located in a low-density area and characterized by large houses, some pastureland, and a dense mix of hardwood/evergreen forests. According to the digital terrain model one existing transmission structure and one additional proposed transmission structure was visible from this location. However, further investigation in the field revealed that no existing transmission structures could be seen even though the line is only 0.12 miles away at its closest point. One or more existing or proposed transmission structures may be visible in the winter months after the leaves drop due to the lines close proximity to the property.

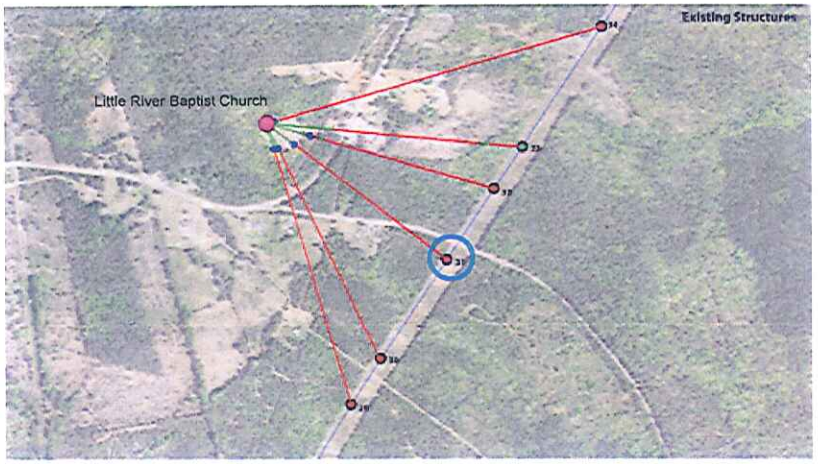
Direction of VCS1-Killian 230 kV Line: Northwest

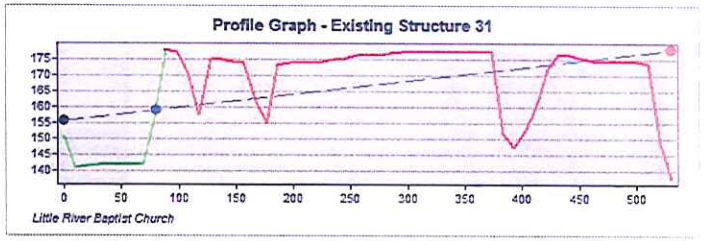
Little River Baptist Church, NRHP-LISTED

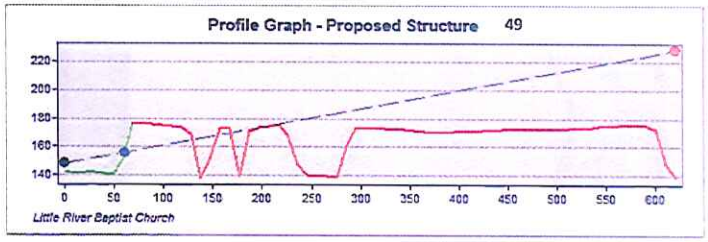
Year Built: 1845
Location: Fairfield County, SC
Distance From Route Centerline: 0.33 Miles/ 0.53 Kilometers
BLM Total Scenic Quality Score: 8



Little River Baptist Church, NRHP-LISTED







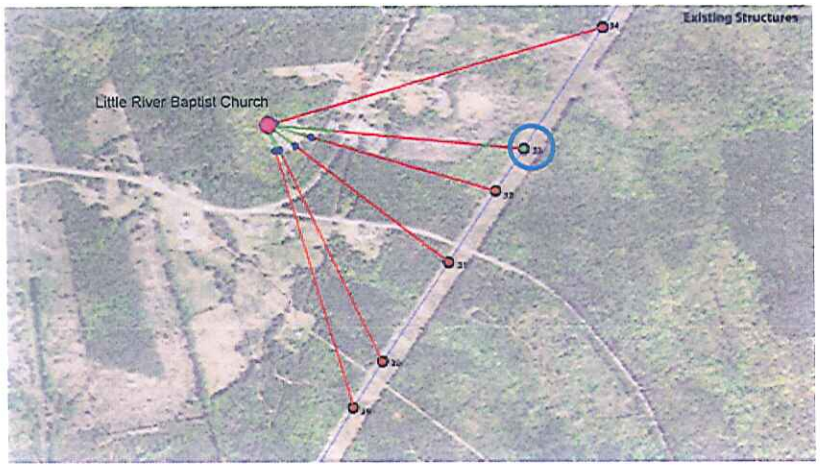
Total Structures Visible		Increase in Height
Existing:	1	N/A (Both Not Visible)
Proposed:	1	

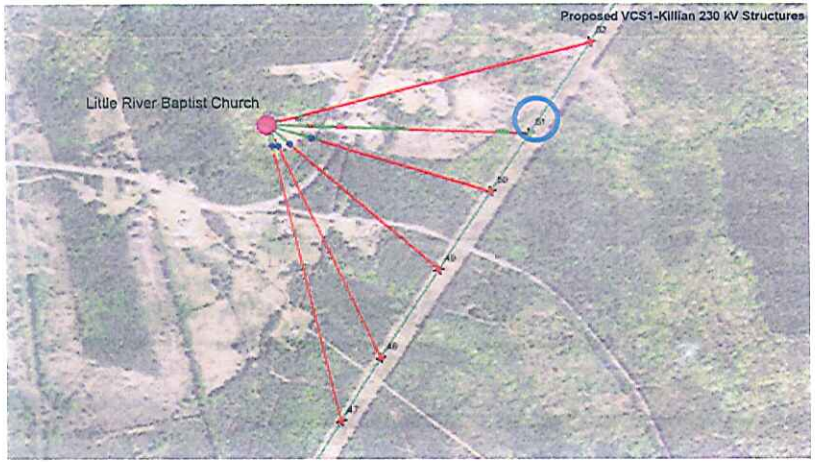
LEGEND

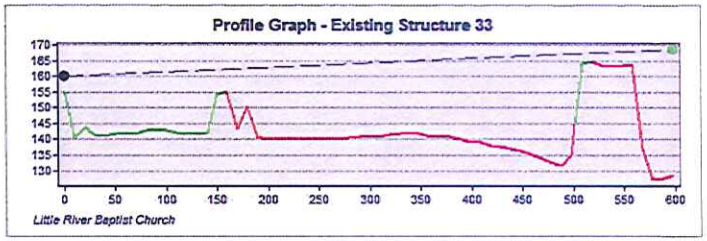
- Observer Location - 5' Vertical Elevation
- Target Location - Visible
- Target Location - Not Visible
- Field of Vision Surface Contact
- Visible Surface
- Not Visible Surface

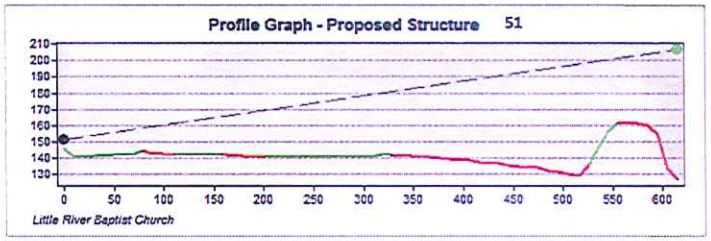
Note: Profile Graphs are vertically and horizontally exaggerated.

Little River Baptist Church, NRHP-LISTED









Total Structures Visible	Increase in Height
Existing: 1	33(E) – 51(P): +40'
Proposed: 1	

LEGEND

- Observer Location - 5' Vertical Elevation
- Target Location - Visible
- Target Location - Not Visible
- Field of Vision Surface Contact
- Visible Surface
- Not Visible Surface

Note: Profile Graphs are vertically and horizontally exaggerated.

Little River Baptist Church, NRHP-LISTED

Potential Visual Impact Rating

0 — 1 ———————— 10

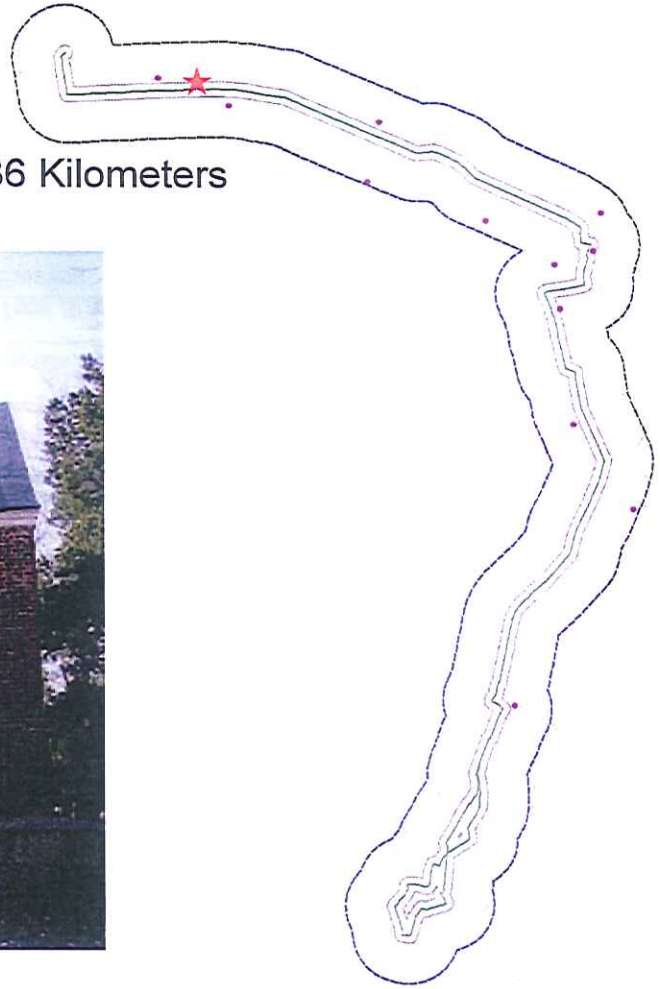
No Impact — High Impact

The church property is located only a couple hundred feet off of Highway 213 facing the VCS1-Killian 230 kV Line. Heavy midground screening from a hardwood/evergreen forest prohibited a view of the existing transmission structures that lie 0.33 miles away. As displayed by the photograph and the digital terrain model, it is highly unlikely that a view of the proposed transmission structures will be visible from the site.

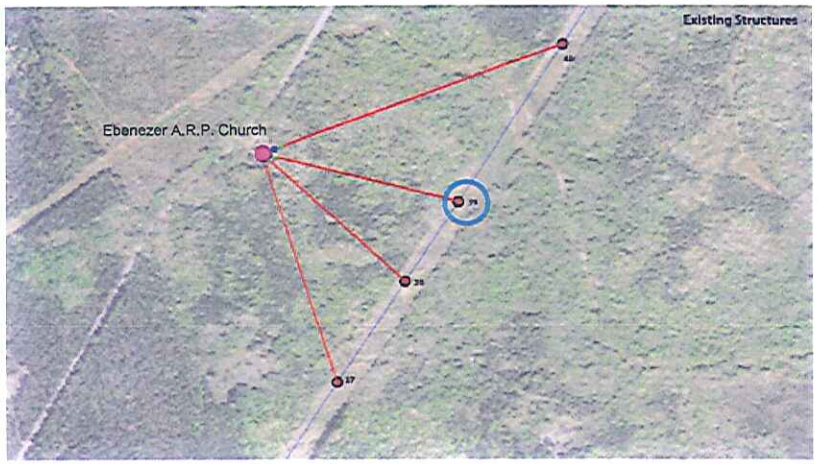
Direction of VCS1-Killian 230 kV Line: East

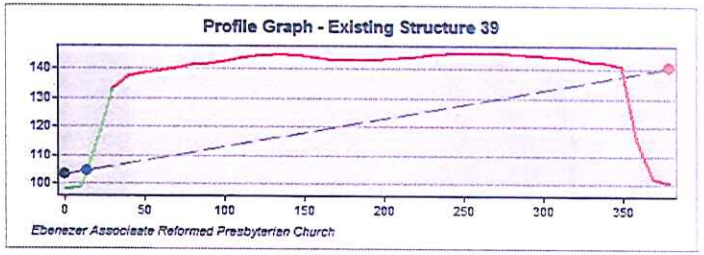
Ebenezer A.R.P. Church, NRHP-LISTED

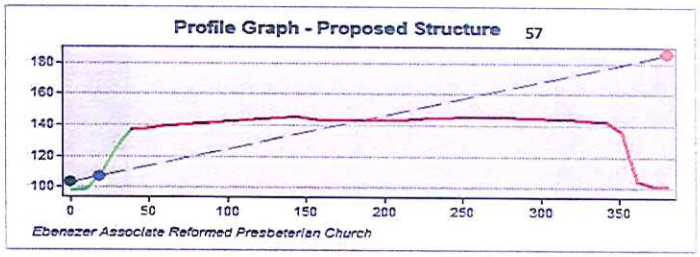
Year Built: 1788
Location: Fairfield County, SC
Distance From Route Centerline: 0.22 Miles/ 0.36 Kilometers
BLM Total Scenic Quality Score: 8



Ebenezer A.R.P. Church, NRHP-LISTED







Total Structures Visible		Increase in Height
Existing:	0	N/A (Both Not Visible)
Proposed:	0	

LEGEND

- Observer Location - 5' Vertical Elevation
- Target Location - Visible
- Target Location - Not Visible
- Field of Vision Surface Contact
- Visible Surface
- Not Visible Surface

Note: Profile Graphs are vertically and horizontally exaggerated.

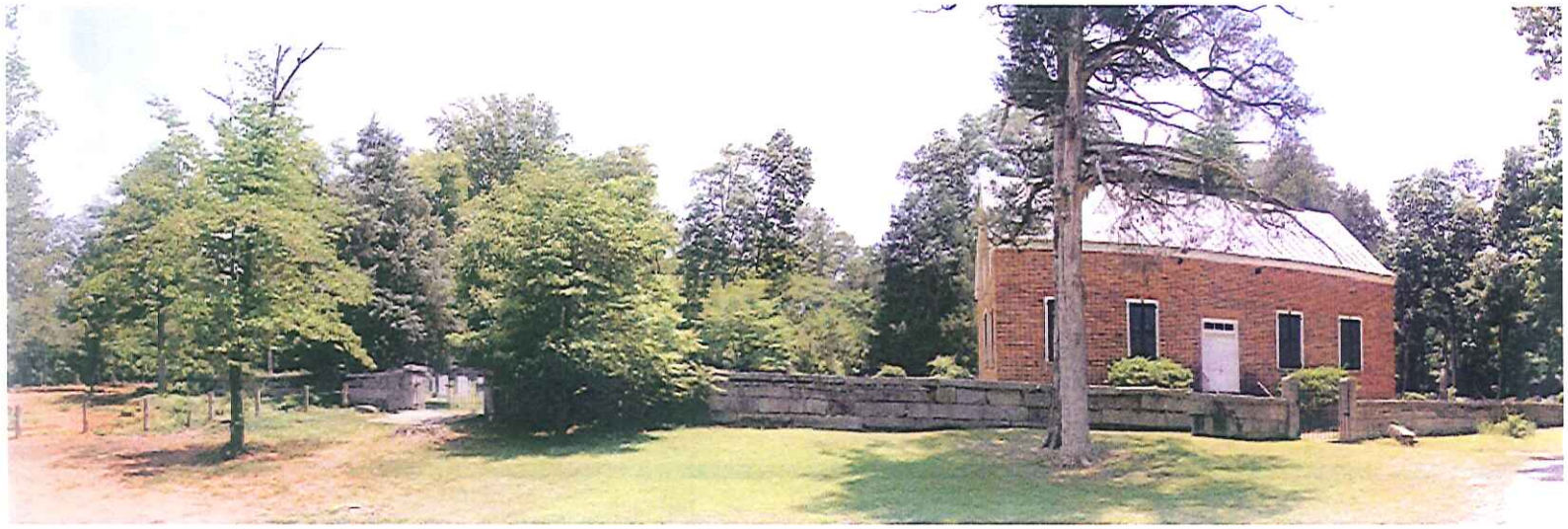
Ebenezer A.R.P. Church, NRHP-LISTED

Potential Visual Impact Rating

0 ——————————— 10

No Impact — High Impact

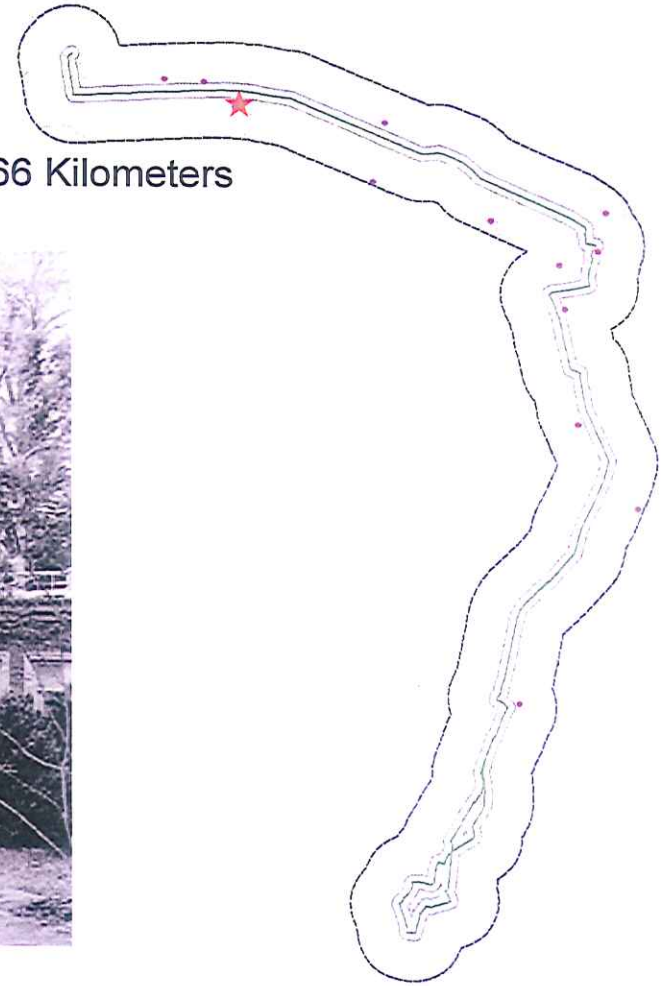
This late 18th century church is located on Highway 213, heavily screened on all sides by a hardwood/evergreen forest. No existing structures could be seen on the field visit. Based on the density of the forests and distance the forests are from the church building, the view angle required is far too great to have a clear view of the the proposed transmission structures.



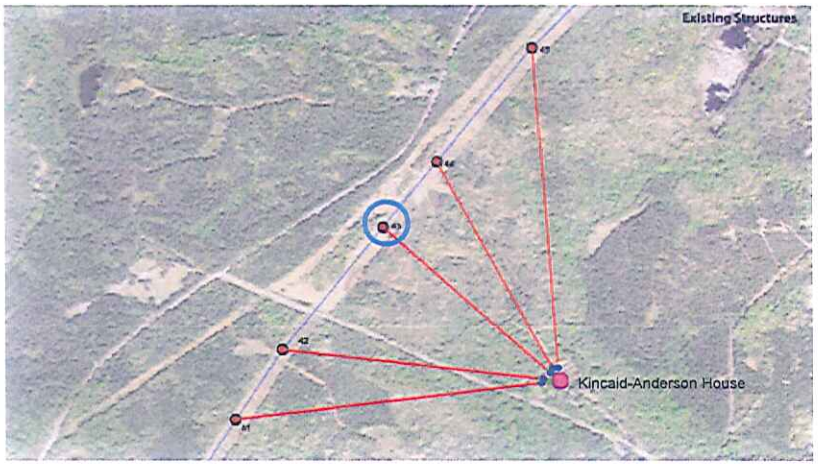
Direction of VCS1-Killian 230 kV Line: East

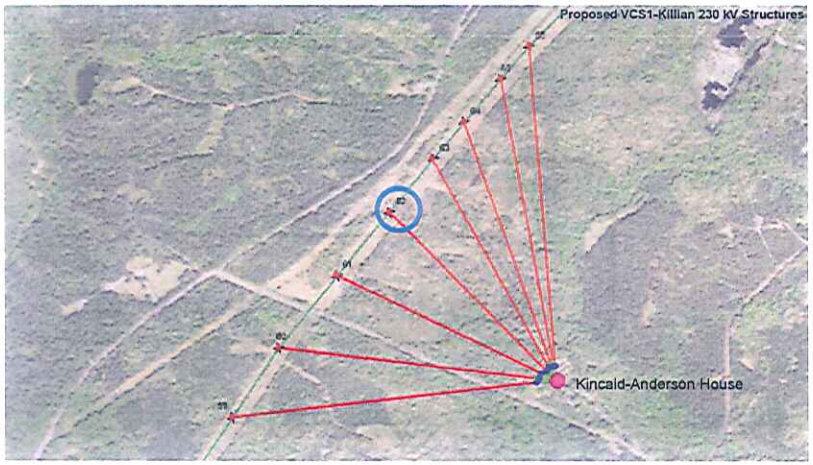
Kincaid-Anderson House, NRHP-LISTED

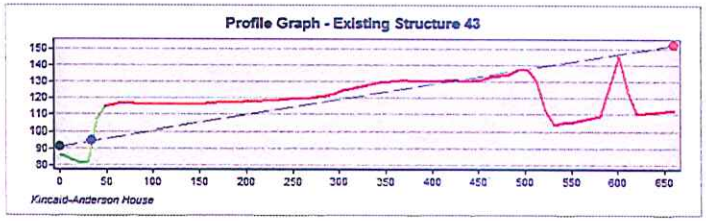
Year Built: 1774
Location: Fairfield County, SC
Distance From Route Centerline: 0.41 Miles/ 0.66 Kilometers
BLM Total Scenic Quality Score: 8

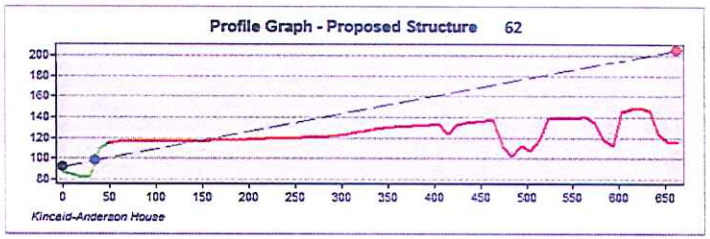


Kincaid-Anderson House, NRHP-LISTED









Total Structures Visible		Increase in Height
Existing:	0	N/A (Both Not Visible)
Proposed:	0	

LEGEND

- Observer Location - 5' Vertical Elevation
- Target Location - Visible
- Target Location - Not Visible
- Field of Vision Surface Contact
- Visible Surface
- Not Visible Surface

Note: Profile Graphs are vertically and horizontally exaggerated.

Kincaid-Anderson House, NRHP-LISTED

Potential Visual Impact Rating

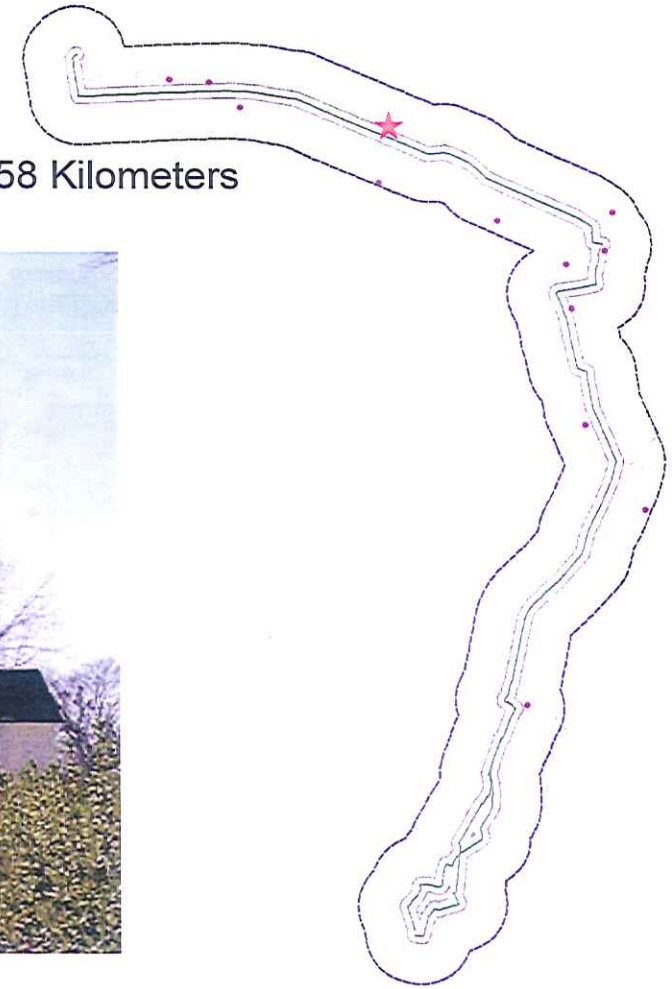
0 ——————————— 10

No Impact — High Impact

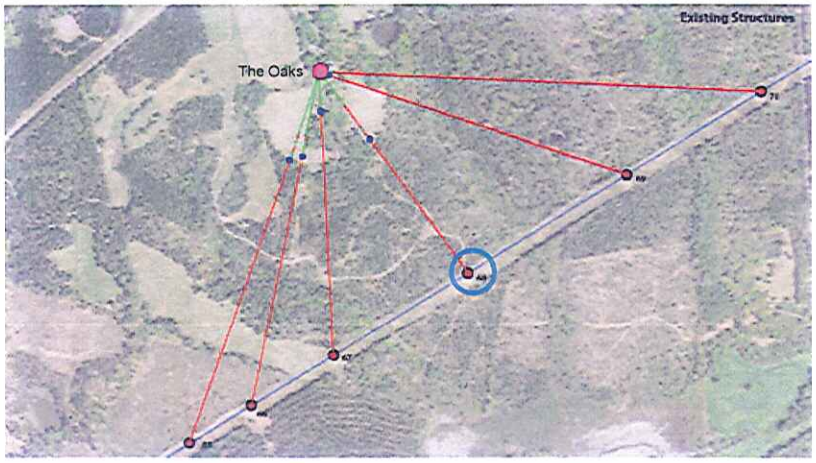
Located just off Highway 213 on Landis Road, The Kincaid-Anderson House sits on a secluded piece of property with little view in or out. The high density of tree cover prohibits any view of the existing transmission structures. The tree cover, elevation change, and distance from the line (0.41 miles) would likely not allow a view of the proposed transmission structures, therefore confirming the results of the digital terrain model.

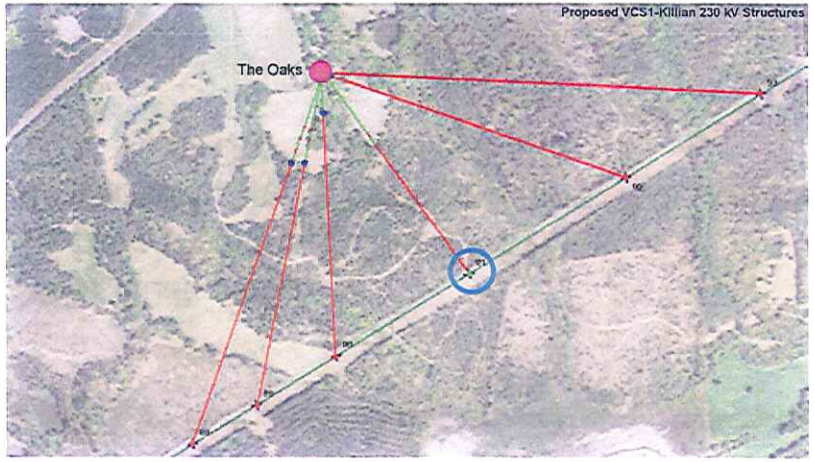
The Oaks, NRHP-LISTED

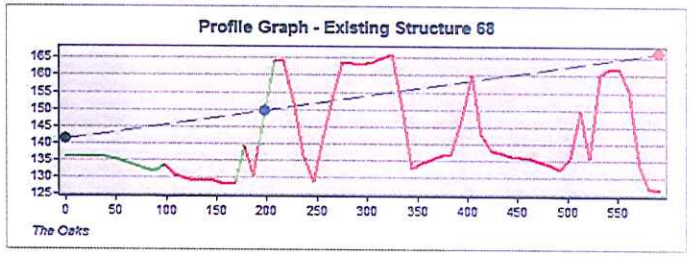
Year Built: 1850
Location: Fairfield County, SC
Distance From Route Centerline: 0.36 Miles/ 0.58 Kilometers
BLM Total Scenic Quality Score: 8

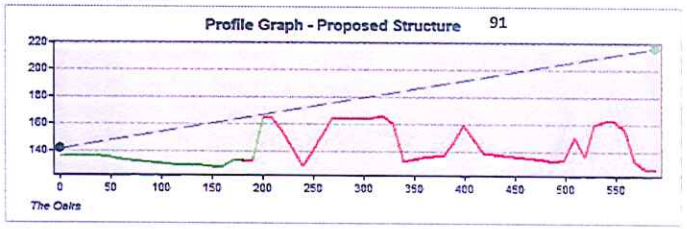


The Oaks, NRHP-LISTED









Total Structures Visible		Increase in Height	
Existing:	0	68(E) – 91(P):	+40'
Proposed:	1		

LEGEND

- Observer Location - 5' Vertical Elevation
- Target Location - Visible
- Target Location - Not Visible
- Field of Vision Surface Contact
- Visible Surface
- Not Visible Surface

Note: Profile Graphs are vertically and horizontally exaggerated.

The Oaks, NRHP-LISTED

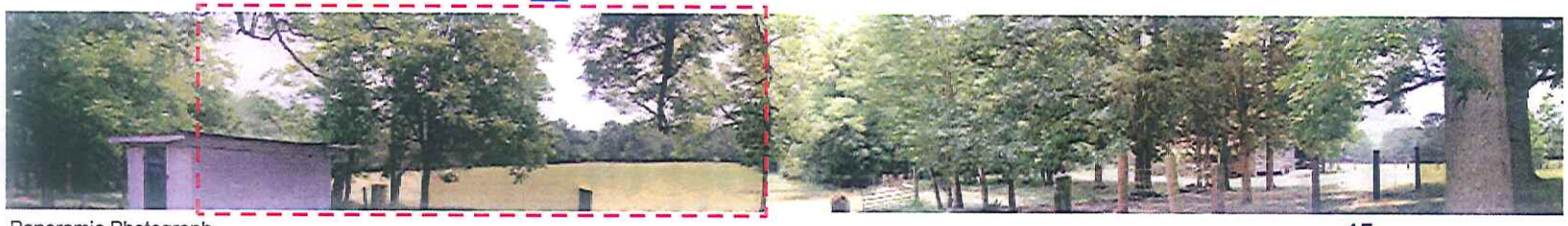
Potential Visual Impact Rating

0 — 3 — 10

No Impact — High Impact

The Oaks, located in Fairfield County on Highway 213, is prime example of a southern plantation house. The house sits on a subtle ridge, surrounded by pastureland with scattered deciduous trees on all sides. The existing transmission structures, which run behind the property approximately 0.36 miles away, cannot be seen from the house. While light foreground screening protects the house's view in the summer, the deciduous nature of the trees could possibly allow a view of the proposed transmission structures as the house overlooks the forests in the rear.

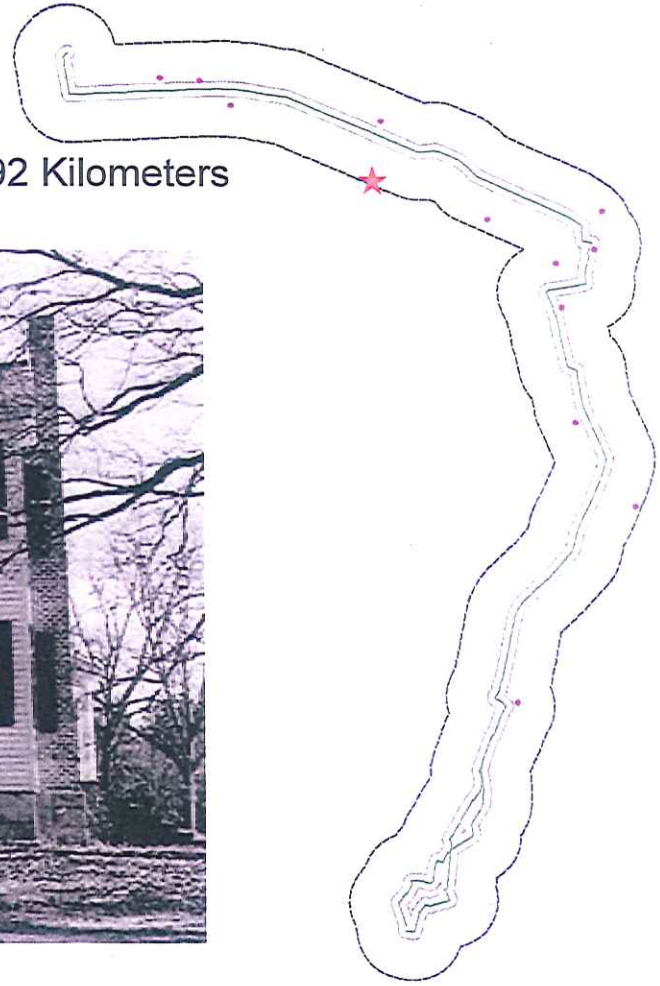
Direction of VCS1-Killian 230 kV Line: Southeast



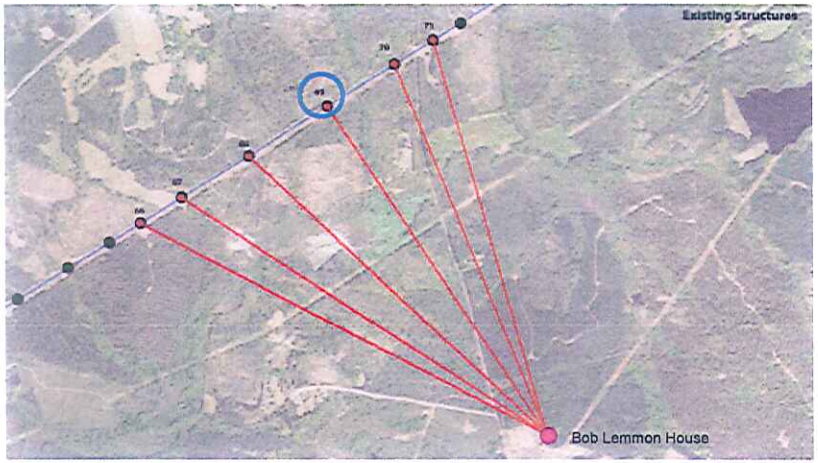
Panoramic Photograph

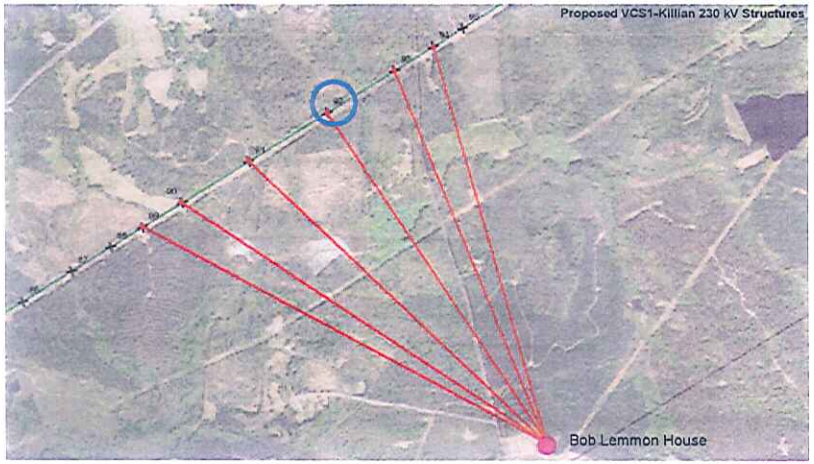
Bob Lemmon House, NRHP-LISTED

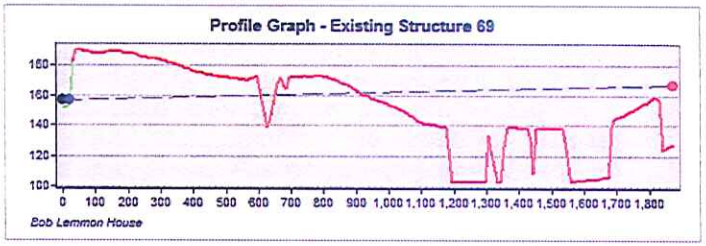
Year Built: 1850
Location: Fairfield County, SC
Distance From Route Centerline: 1.19 Miles/ 1.92 Kilometers
BLM Total Scenic Quality Score: 8

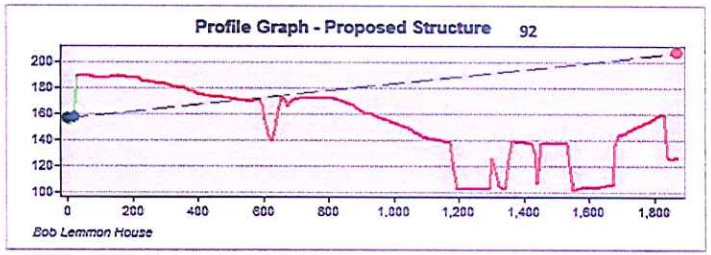


Bob Lemmon House, NRHP-LISTED









Total Structures Visible		Increase in Height
Existing:	0	N/A (Both Not visible)
Proposed:	0	

LEGEND

- Observer Location - 5' Vertical Elevation
- Target Location - Visible
- Target Location - Not Visible
- Field of Vision Surface Contact
- Visible Surface
- Not Visible Surface

Note: Profile Graphs are vertically and horizontally exaggerated.

Bob Lemmon House, NRHP-LISTED

Potential Visual Impact Rating

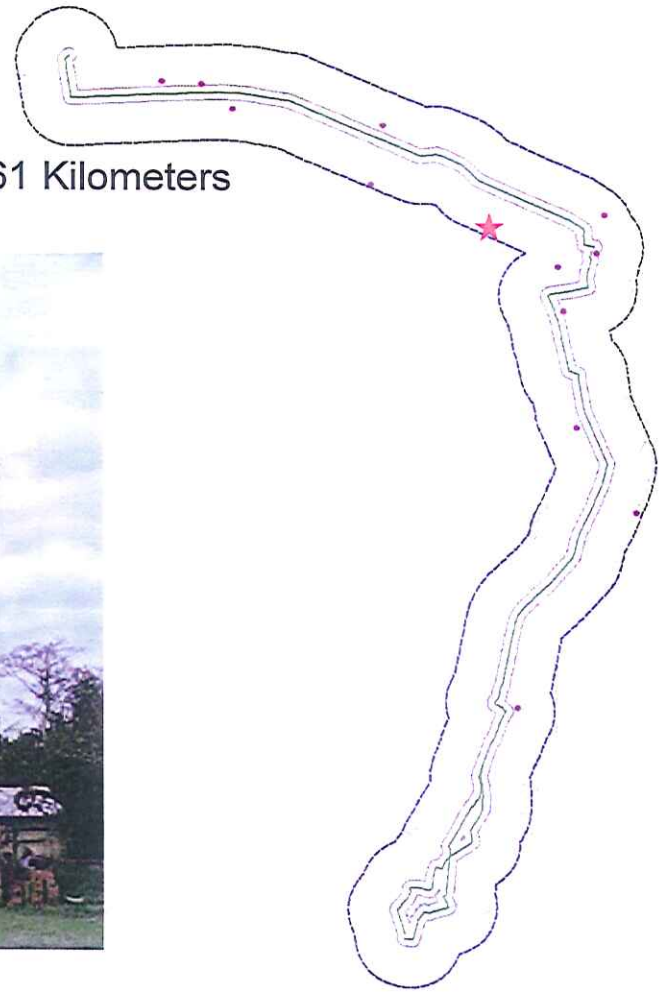
0 ———————— 10

No Impact High Impact

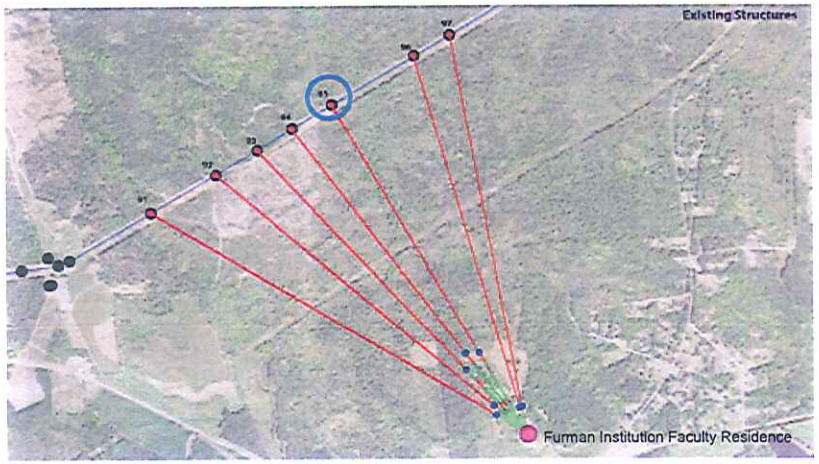
The Bob Lemmon House was not directly visited and photographed during the field study. However, taking into account the landcover from satellite imagery, the results of the digital terrain model, and the distance (1.19 miles), we can confidently infer that the existing and proposed transmission structures will not be visible. Our previous studies show that transmission lines that are ¾ of a mile away or more are not easily identifiable and tend to not affect the visual quality of a property.

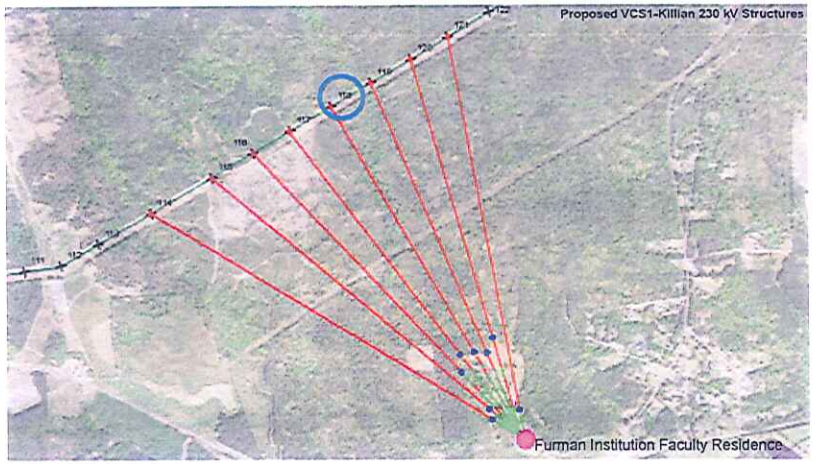
Furman Institution Faculty Residence, NRHP-LISTED

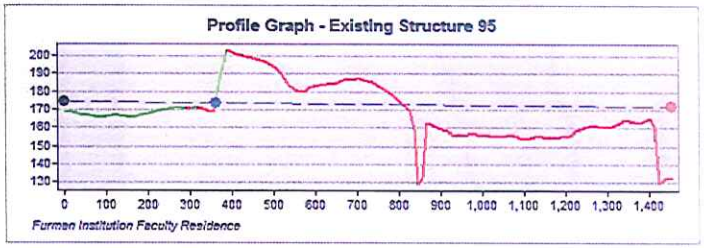
Year Built: 1837
Location: Fairfield County, SC
Distance From Route Centerline: 0.90 Miles/ 1.61 Kilometers
BLM Total Scenic Quality Score: 8

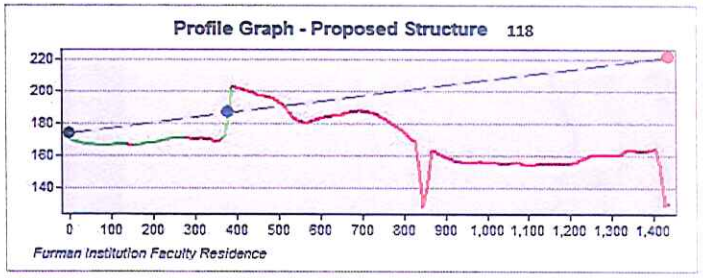


Furman Institution Faculty Residence, NRHP-LISTED









Total Structures Visible		Increase in Height
Existing:	0	N/A (Both Not visible)
Proposed:	0	

LEGEND

- Observer Location - 5' Vertical Elevation
- Target Location - Visible
- Target Location - Not Visible
- Field of Vision Surface Contact
- Visible Surface
- Not Visible Surface

Note: Profile Graphs are vertically and horizontally exaggerated.

Furman Institution Faculty Residence, NRHP-LISTED

Potential Visual Impact Rating

0 1 ——— 10

No Impact — High Impact

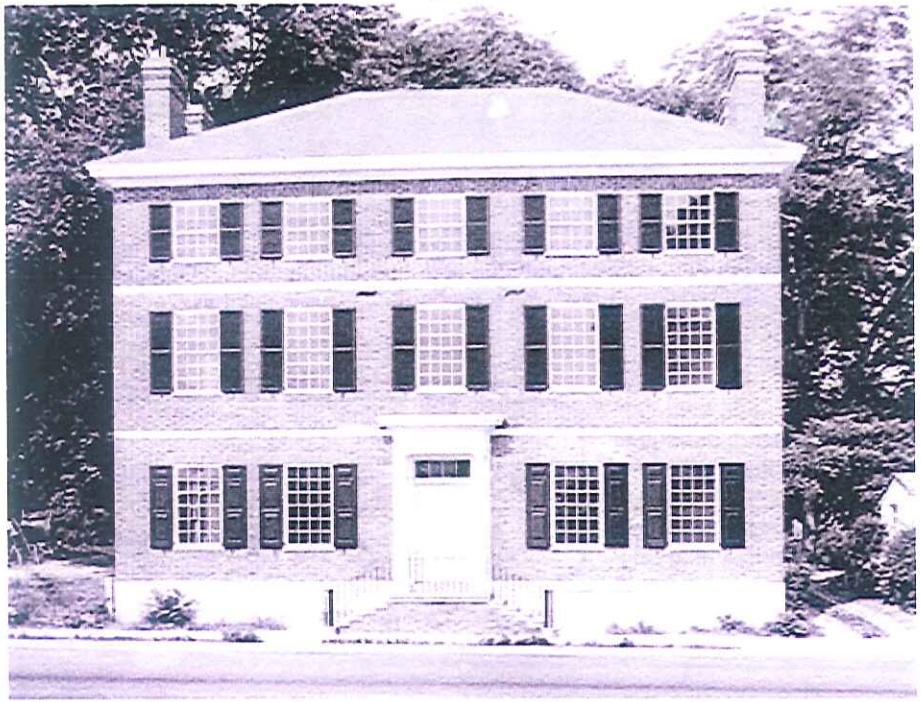
This historic property sits off Highway 213 and is surrounded by farmland and mixed hardwood/evergreen forests. The existing transmission structures run behind the property just under a mile away. Elevation changes, distance, and dense midground forests obstruct the view of existing transmission structures and likely that of proposed transmission structures as well.

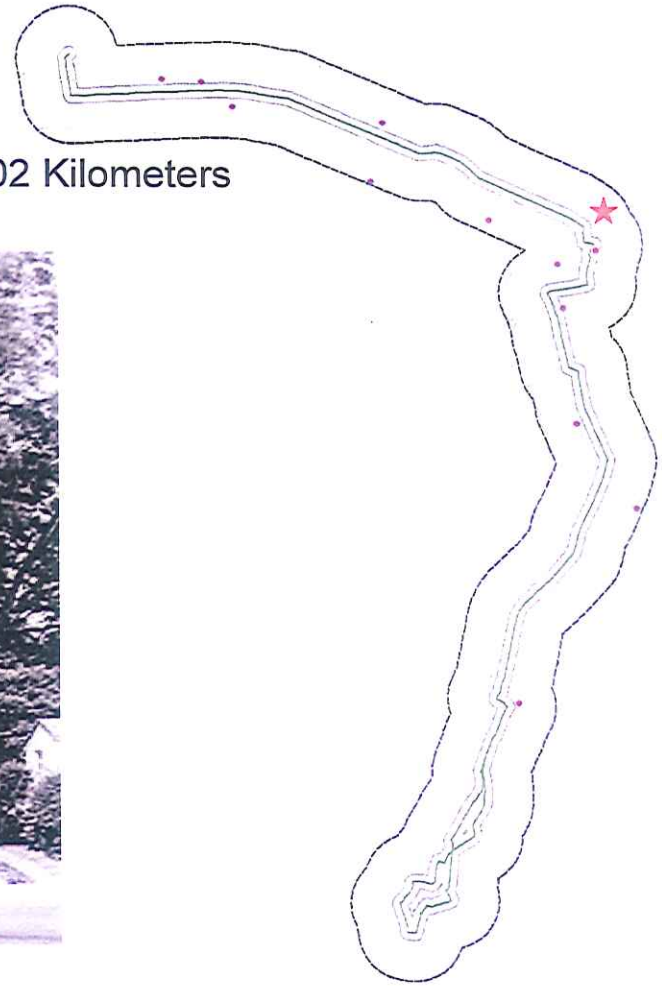
Direction of VCS1-Killian 230 kV Line: Northwest

Panoramic Photograph

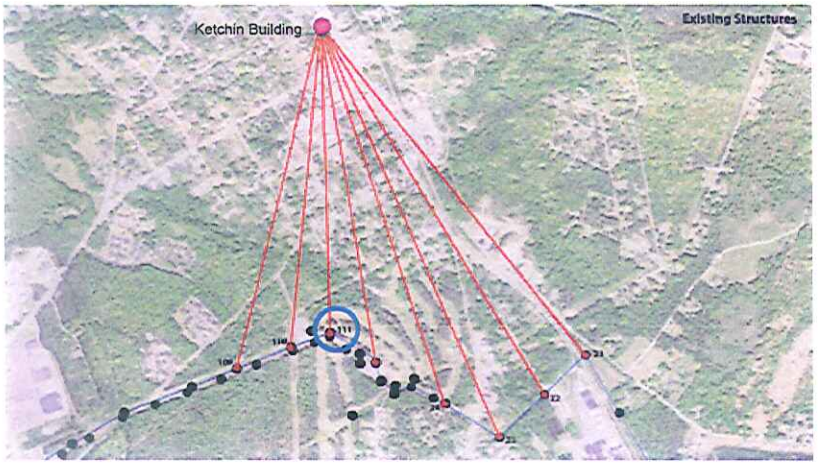
Ketchin Building, NRHP-LISTED

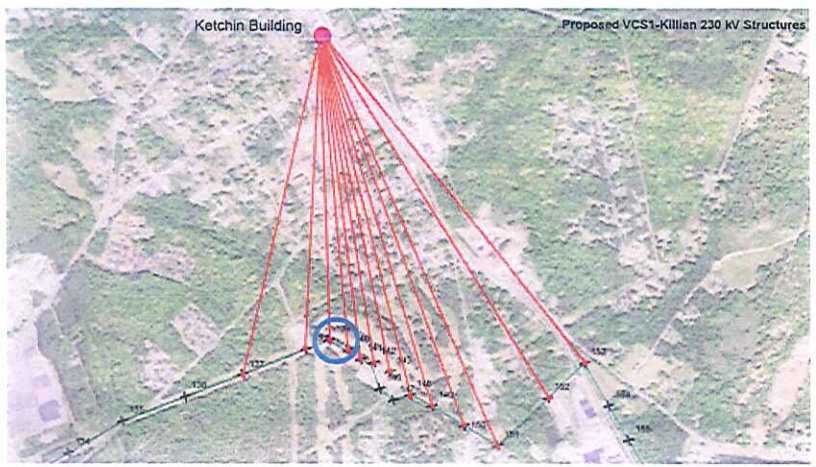
Year Built: 1830
Location: Fairfield County, SC
Distance From Route Centerline: 0.63 Miles/ 1.02 Kilometers
BLM Total Scenic Quality Score: 2

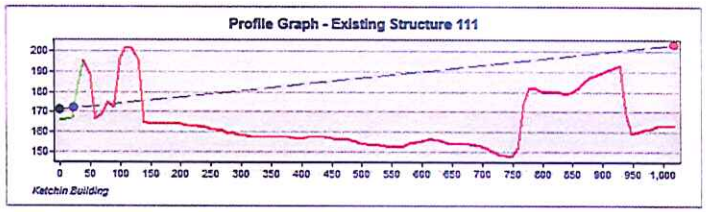


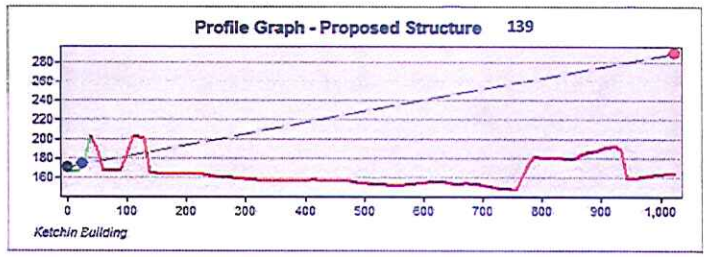


Ketchin Building, NRHP-LISTED









Total Structures Visible		Increase in Height
Existing:	0	N/A (Both Not visible)
Proposed:	0	

LEGEND

- Observer Location - 5' Vertical Elevation
- Target Location - Visible
- Target Location - Not Visible
- Field of Vision Surface Contact
- Visible Surface
- Not Visible Surface

Note: Profile Graphs are vertically and horizontally exaggerated.

Ketchin Building, NRHP-LISTED

Potential Visual Impact Rating

0 — 2 — 10

No Impact — High Impact

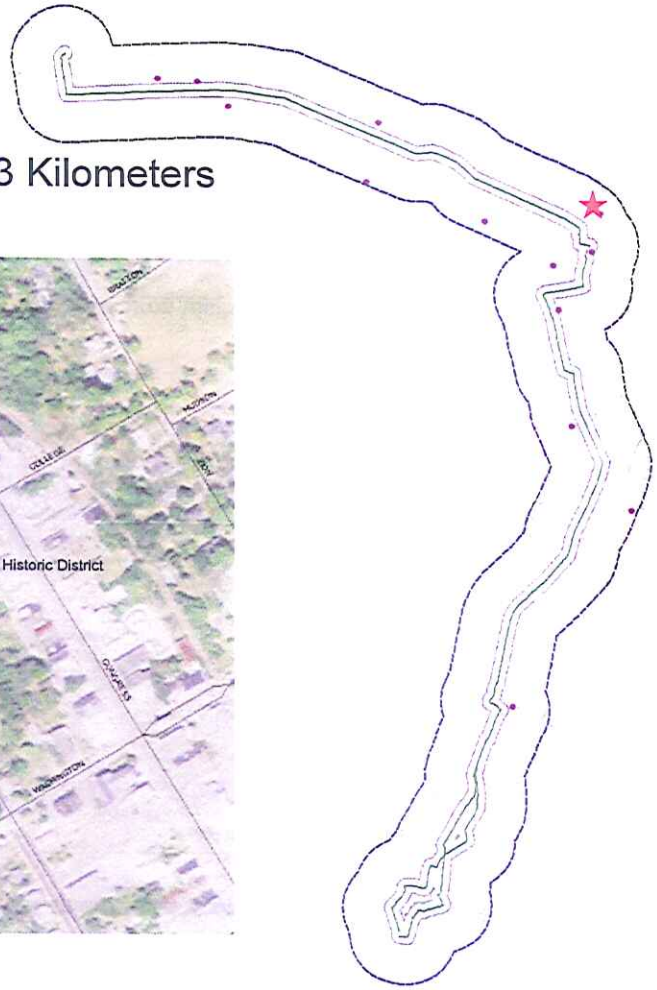
Located in the heart of downtown Winnsboro, the Ketchin Building sits in an area characterized by commercial activity, scattered mature hardwoods, and a variety of utility structures. From the observer location, the existing transmission structures were not visible. Long viewsheds are possible towards the transmission route, providing potential views of proposed structures. However, it is our determination that the complexity of foreground elements will likely distract the common observer from seeing the line, which runs at its closest 0.63 miles away.

Direction of VCS1-Killian 230 kV Line: South

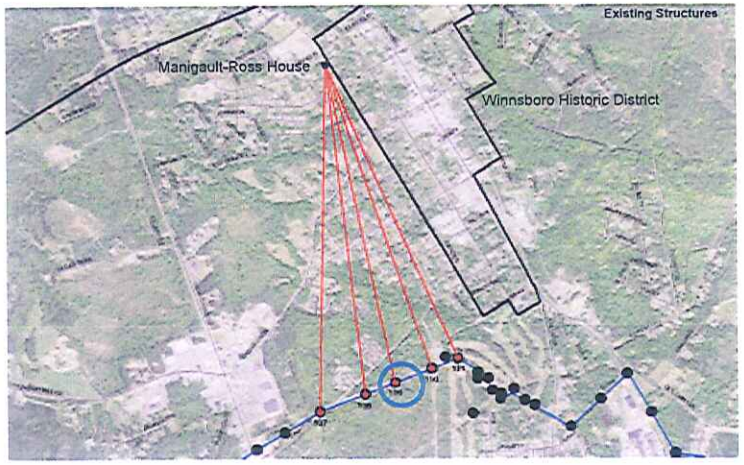
Panoramic Photograph

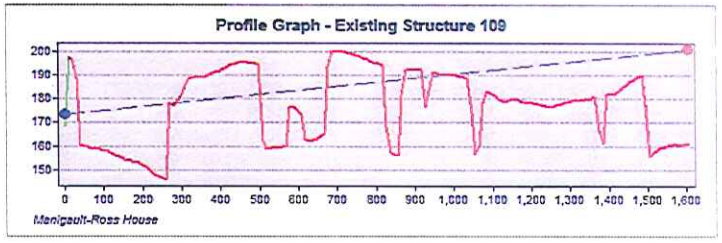
Manigault-Ross House, NRHP Eligible

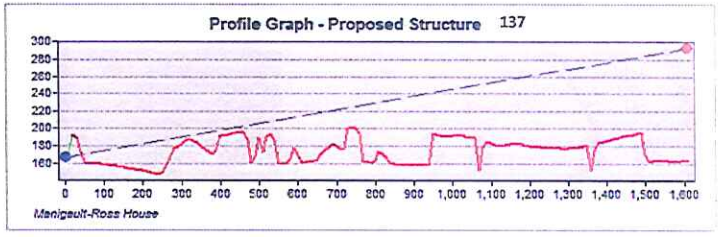
Year Built: Late 1800's – 1900's
Location: Fairfield County, SC
Distance From Route Centerline: 1.01Miles/ 1.63 Kilometers
BLM Total Scenic Quality Score: 2

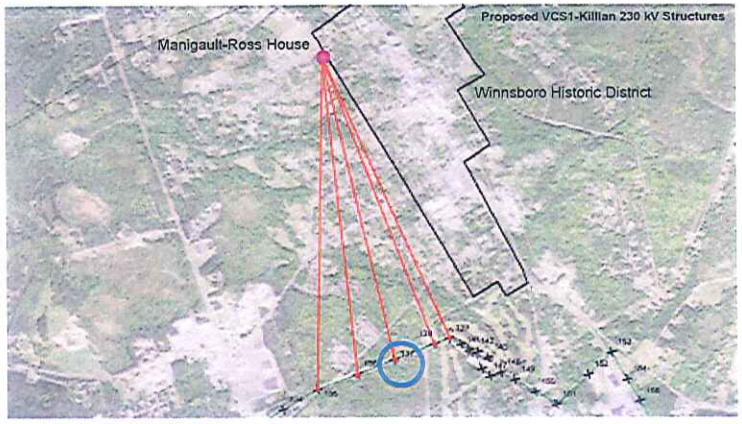


Manigault-Ross House, NRHP Eligible









Total Structures Visible		Increase in Height
Existing:	0	N/A (Both Not visible)
Proposed:	0	

LEGEND

- Observer Location - 5' Vertical Elevation
- Target Location - Visible
- Target Location - Not Visible
- Field of Vision Surface Contact
- Visible Surface
- Not Visible Surface

Note: Profile Graphs are vertically and horizontally exaggerated.

Manigault-Ross House, NRHP Eligible

Potential Visual Impact Rating

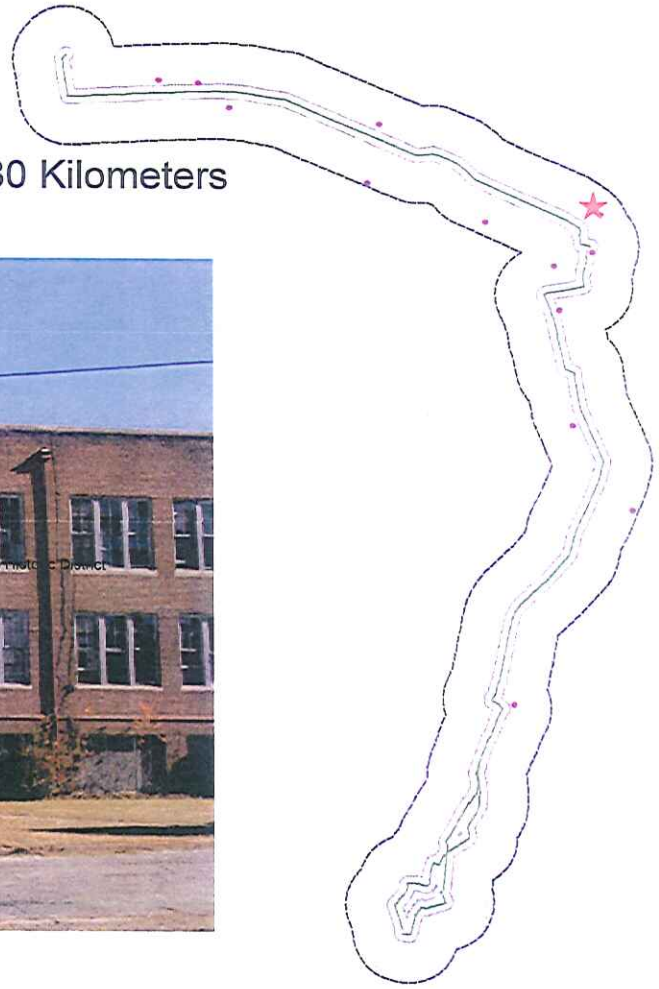
0 ——————————— 10

No Impact — High Impact

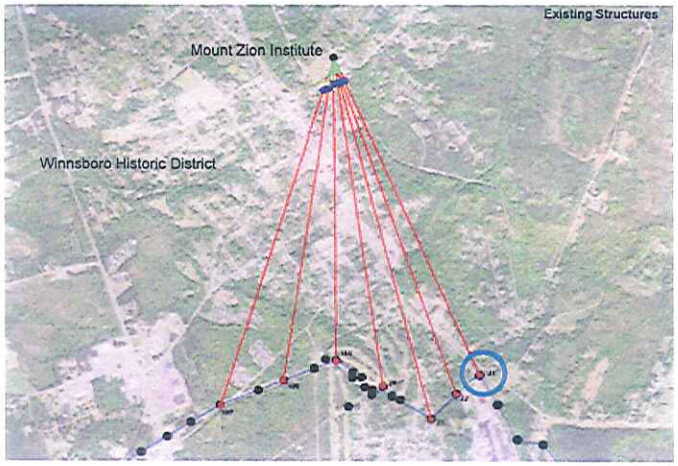
The Manigault-Ross House was not located in the field study; either it was destroyed or had no recognizable identification at the site. However, observations of that area along with the digital terrain model results provided no visibility of existing transmission structures and little possibility of visibility to proposed transmission structures due to the high density of adjacent houses and other foreground screening elements.

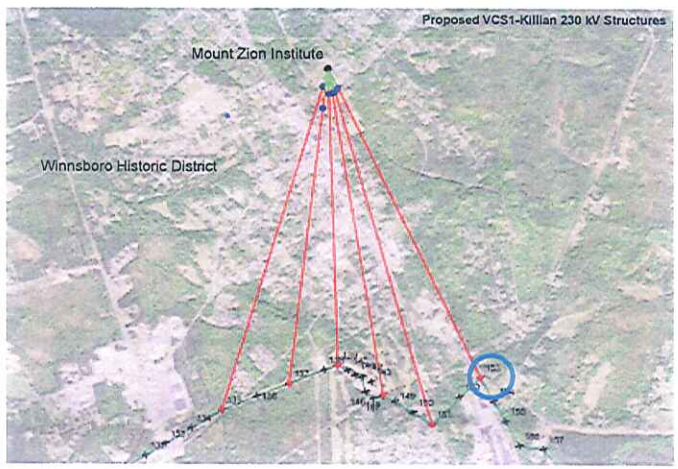
Mount Zion Institute, NRHP Eligible

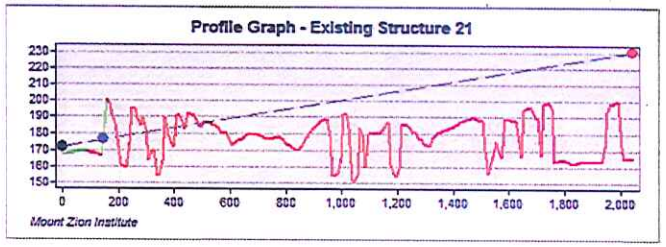
Year Built: Late 1935
Location: Fairfield County, SC
Distance From Route Centerline: 1.17 Miles/ 1.80 Kilometers
BLM Total Scenic Quality Score: 2

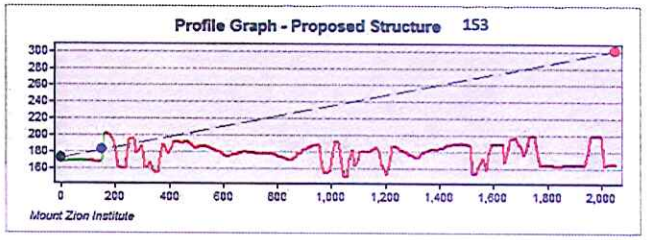


Mount Zion Institute, NRHP Eligible









Total Structures Visible		Increase in Height
Existing:	0	N/A (Both Not visible)
Proposed:	0	

LEGEND

- Observer Location - 5' Vertical Elevation
- Target Location - Visible
- Target Location - Not Visible
- Field of Vision Surface Contact
- Visible Surface
- Not Visible Surface

Note: Profile Graphs are vertically and horizontally exaggerated.

Mount Zion Institute, NRHP Eligible

Potential Visual Impact Rating

0 1 ——— 10

No Impact — High Impact

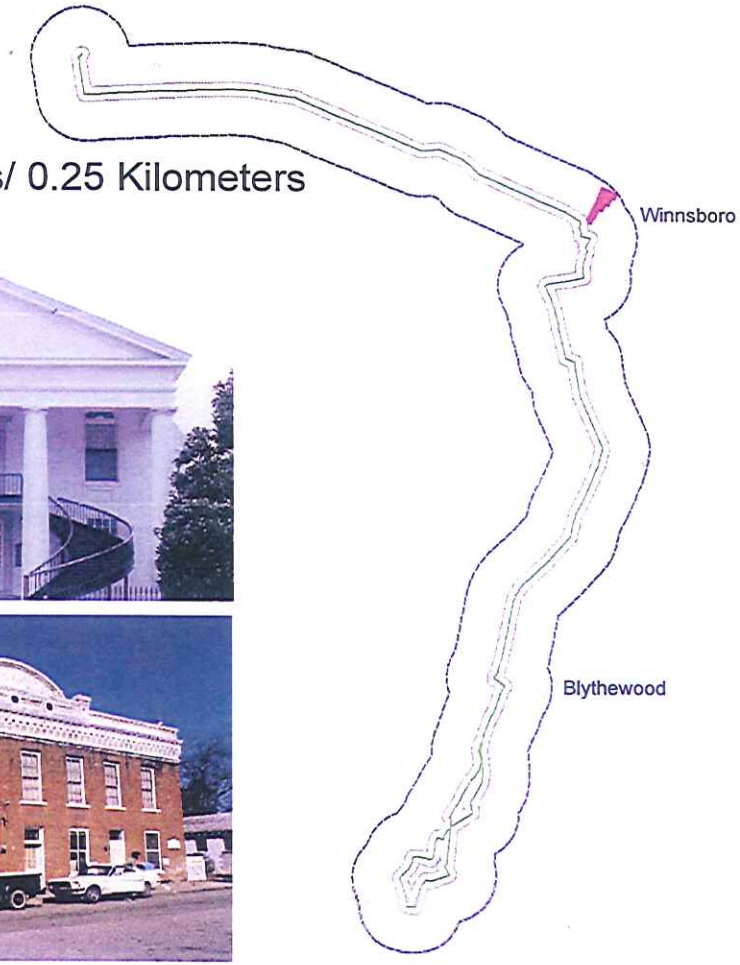
Located in a primarily residential area, the unoccupied Mount Zion Institute had no view of existing transmission lines over 1.17 miles away. The distance and presence of heavy midground elements would likely screen the proposed transmission line from view. Again, our previous studies show that transmission lines that are ¾ of a mile away or more are not easily identifiable and tend to not affect the visual quality of a property.

Direction of VCS1-Killian 230 kV Line: South

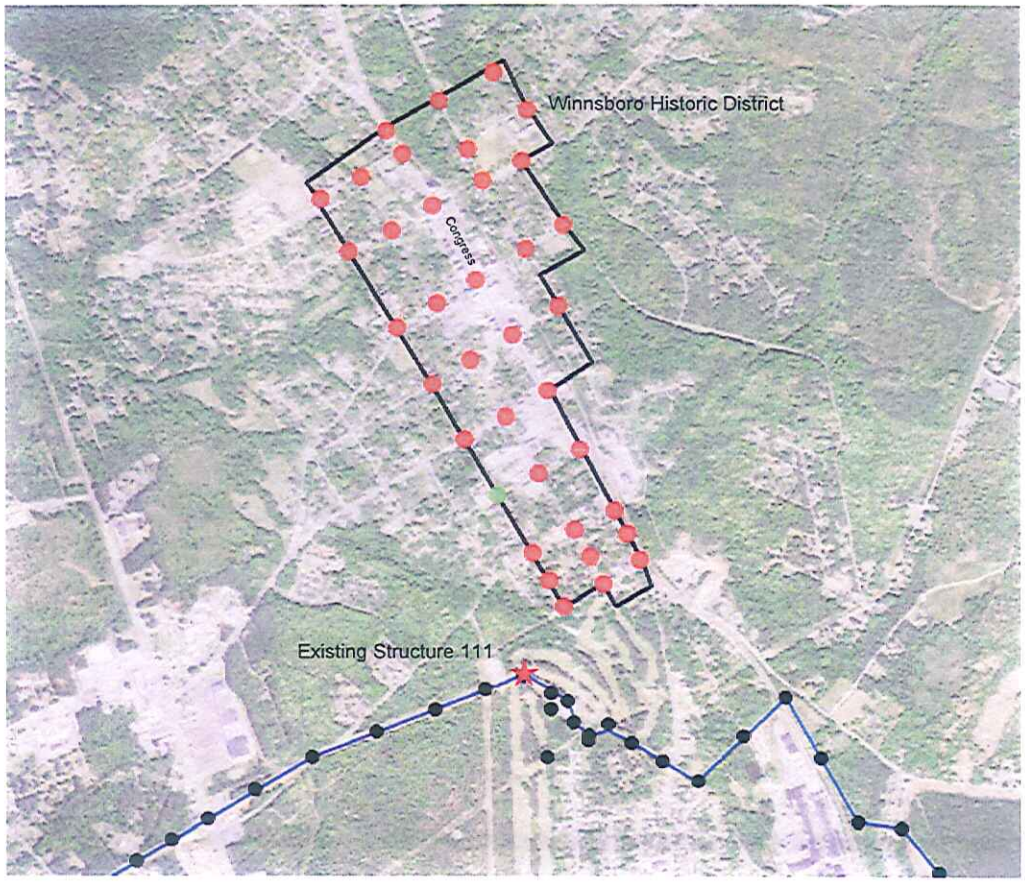
Panoramic Photograph

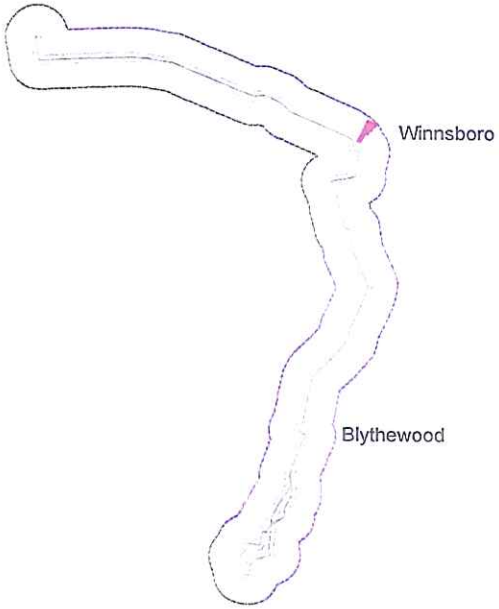
Winnsboro Historic District, NRHP-LISTED

Year Laid Out: 1785
Location: Fairfield County, SC
Distance From Route Centerline: 0.15 Miles/ 0.25 Kilometers
BLM Total Scenic Quality Score: 2



Winnsboro Historic District, NRHP-LISTED

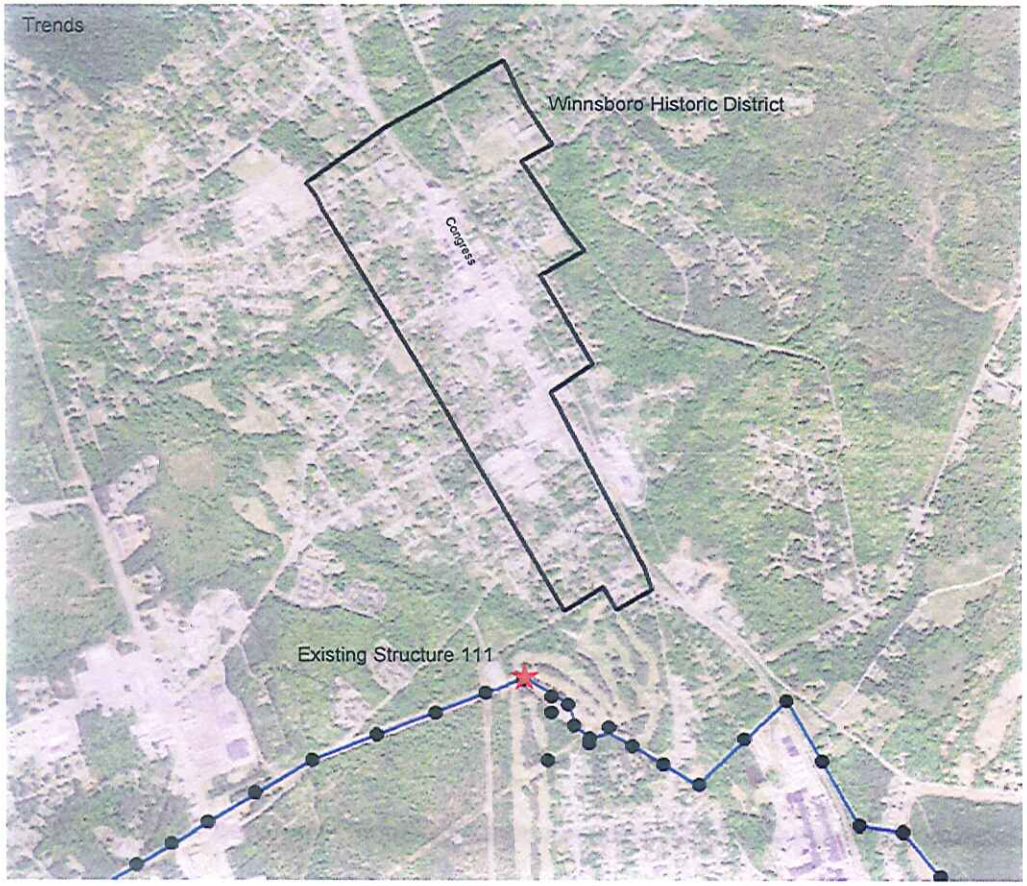


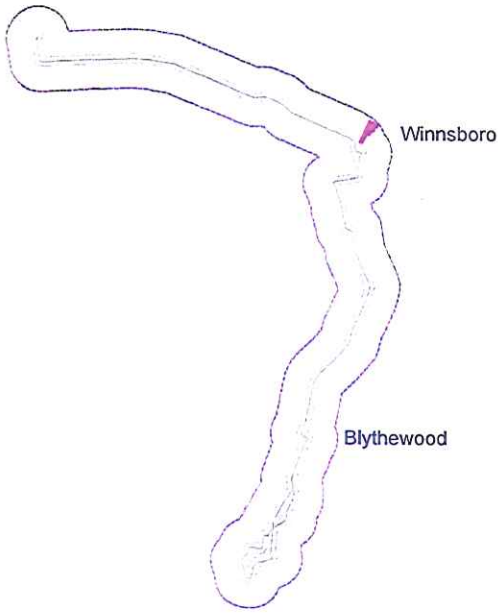


LEGEND

- Visible from Intersection
- Not Visible from Intersection

Winnsboro Historic District, NRHP-LISTED

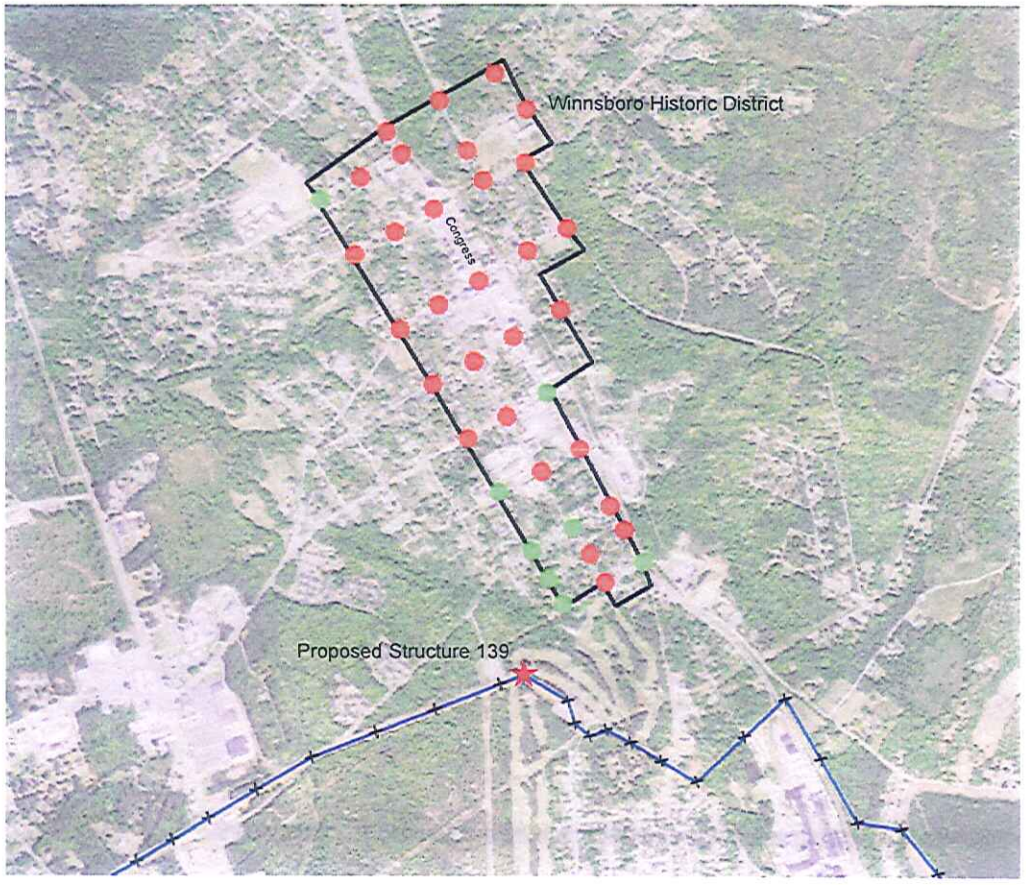


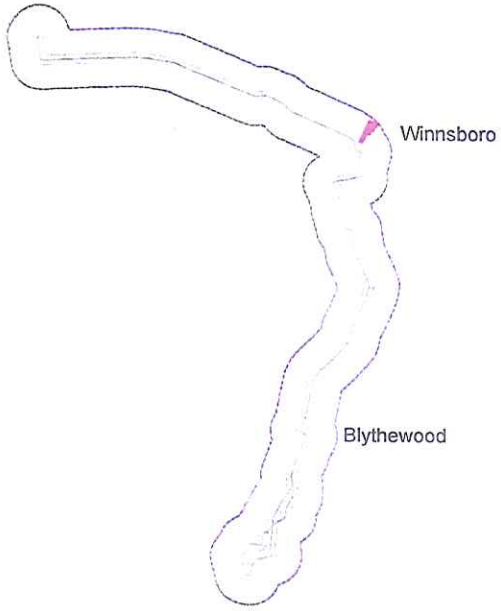


LEGEND

- Visible from Intersection
- Not Visible from Intersection

Winnsboro Historic District, NRHP-LISTED

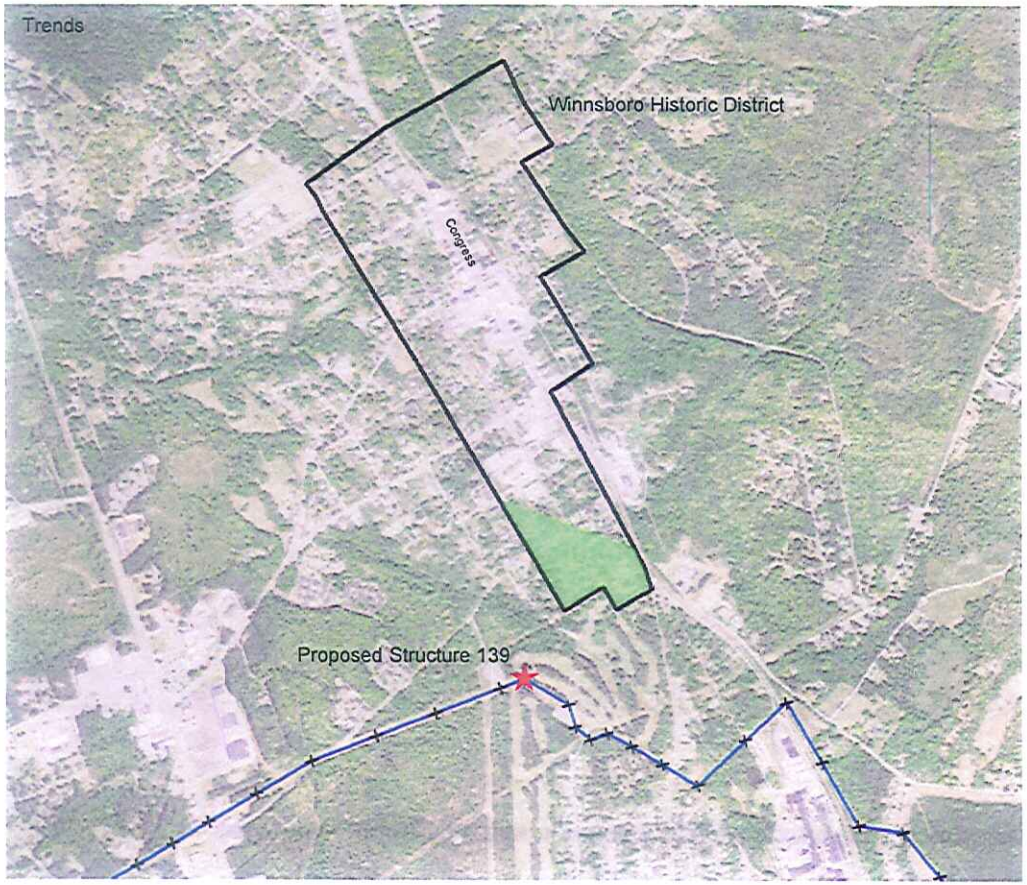


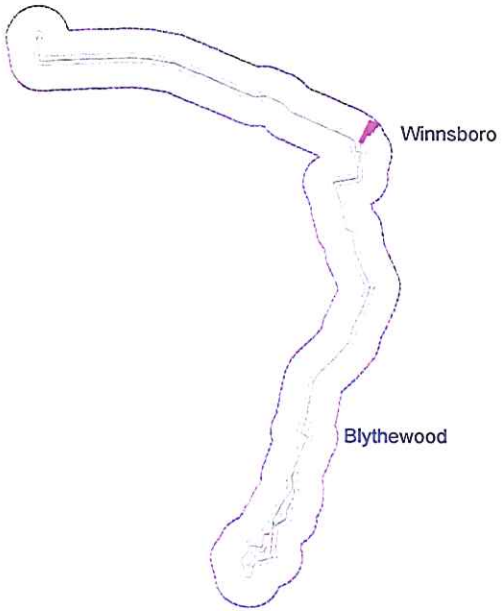


LEGEND

- Visible from Intersection
- Not Visible from Intersection

Winnsboro Historic District, NRHP-LISTED

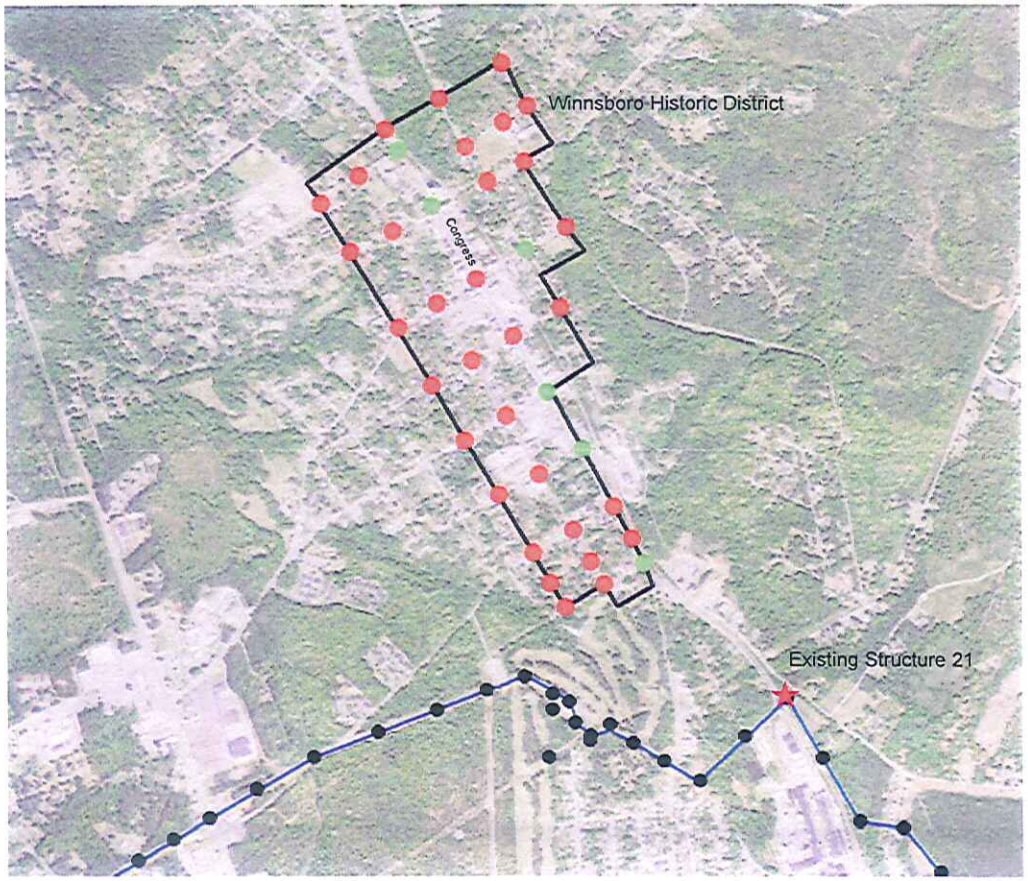


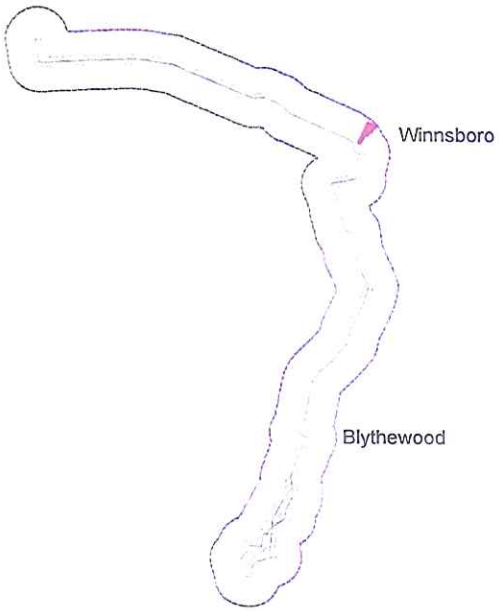


LEGEND

- Visible from Intersection
- Not Visible from Intersection

Winnsboro Historic District, NRHP-LISTED

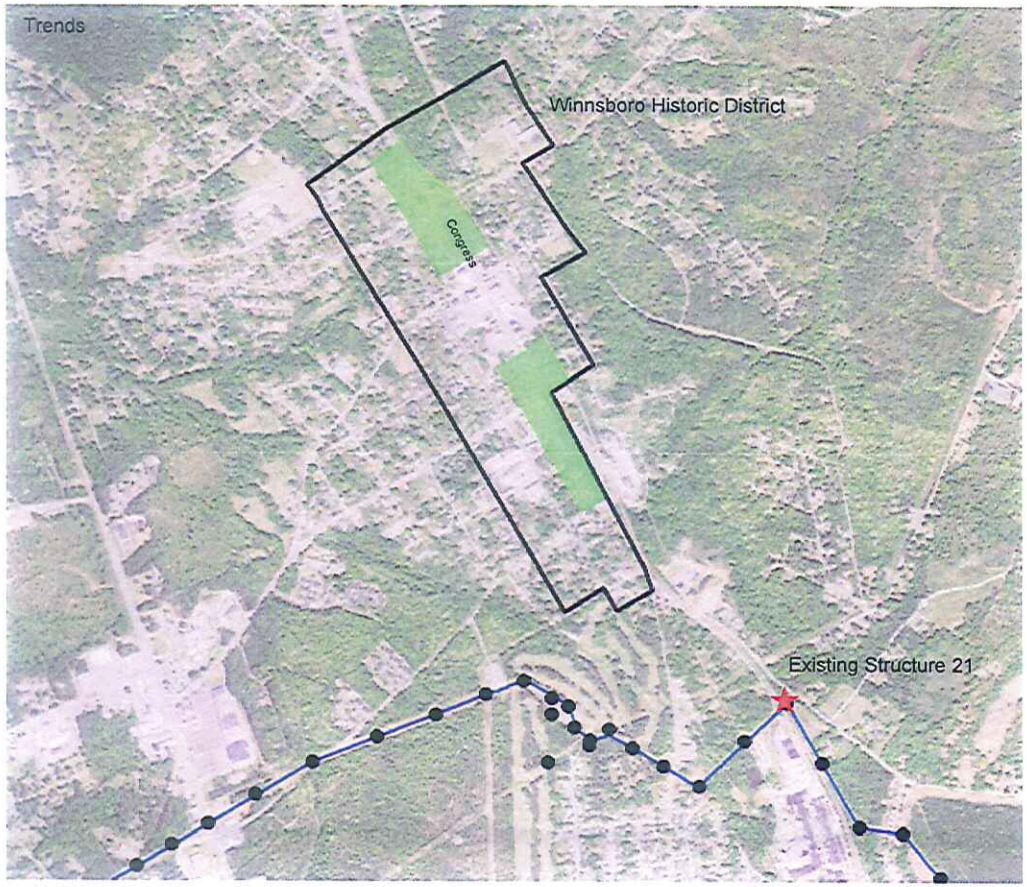


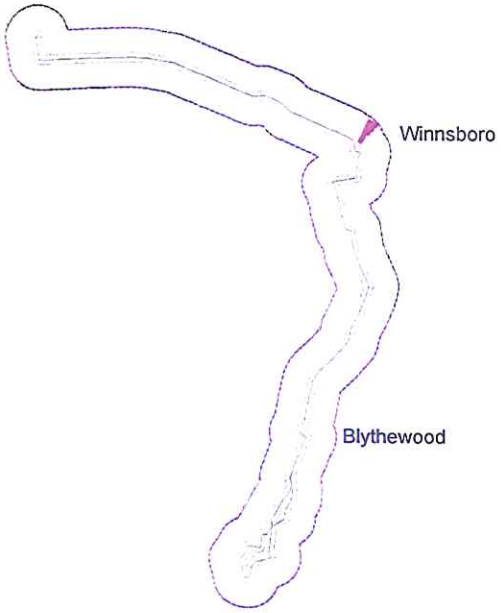


LEGEND

- Visible from Intersection
- Not Visible from Intersection

Winnsboro Historic District, NRHP-LISTED

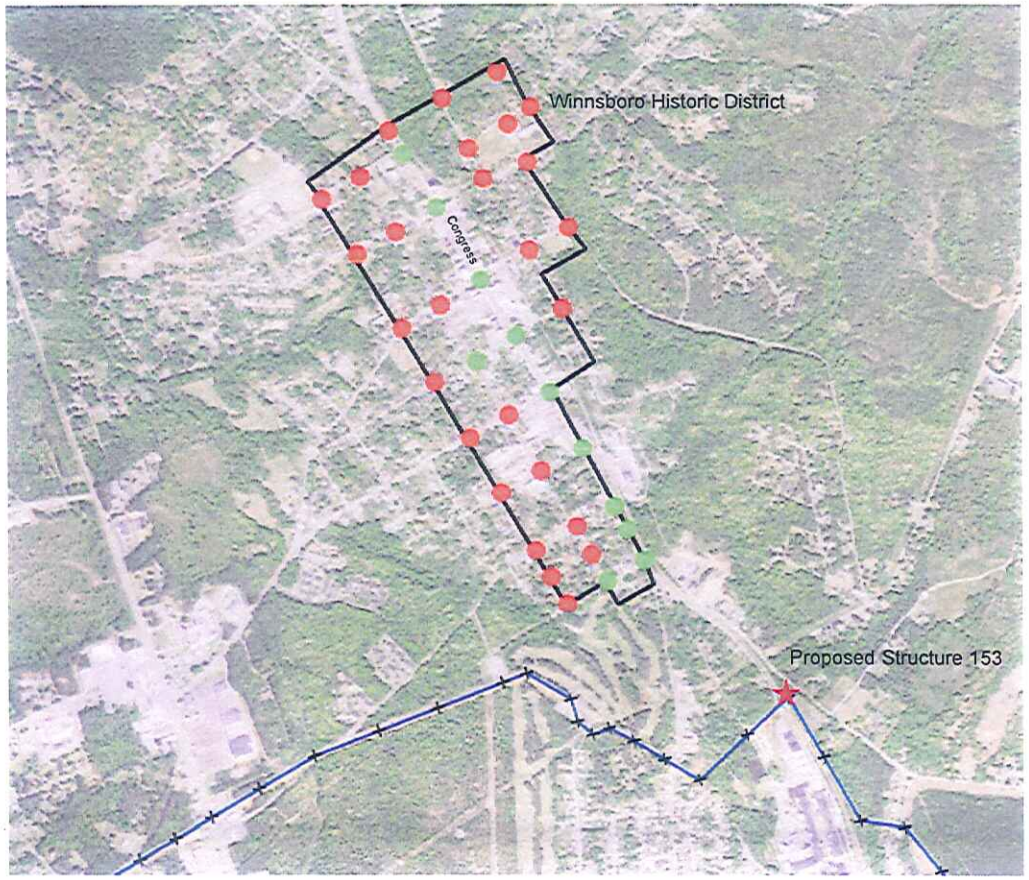


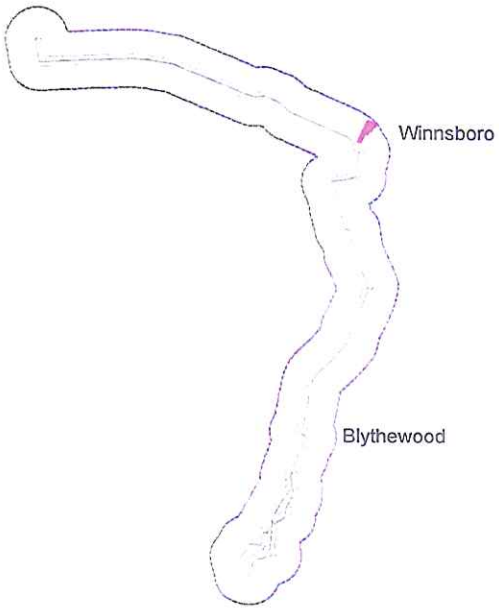


LEGEND

- Visible from Intersection
- Not Visible from Intersection

Winnsboro Historic District, NRHP-LISTED

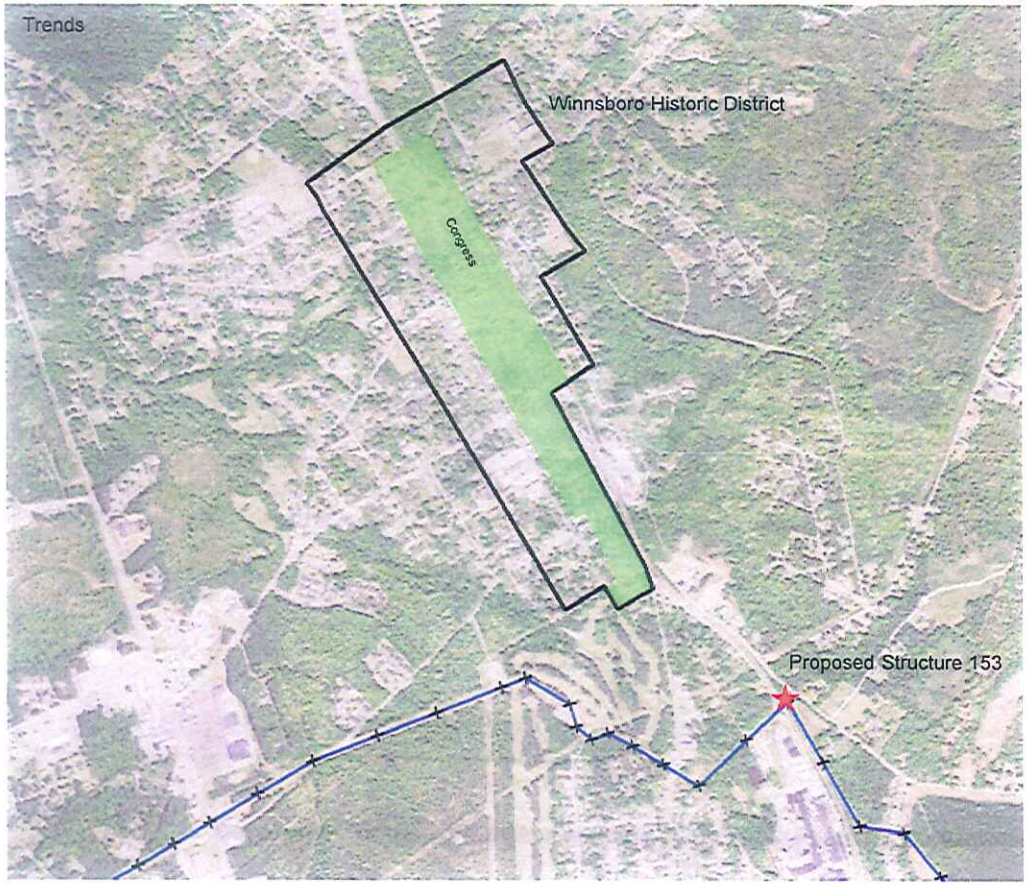


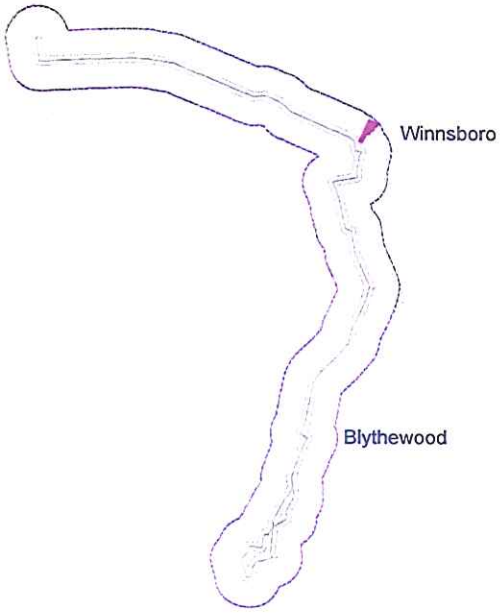


LEGEND

- Visible from Intersection
- Not Visible from Intersection

Winnsboro Historic District, NRHP-LISTED





LEGEND

- Visible from Intersection
- Not Visible from Intersection

Winnsboro Historic District, NRHP-LISTED

Potential Visual Impact Rating

0 — 4 — 10

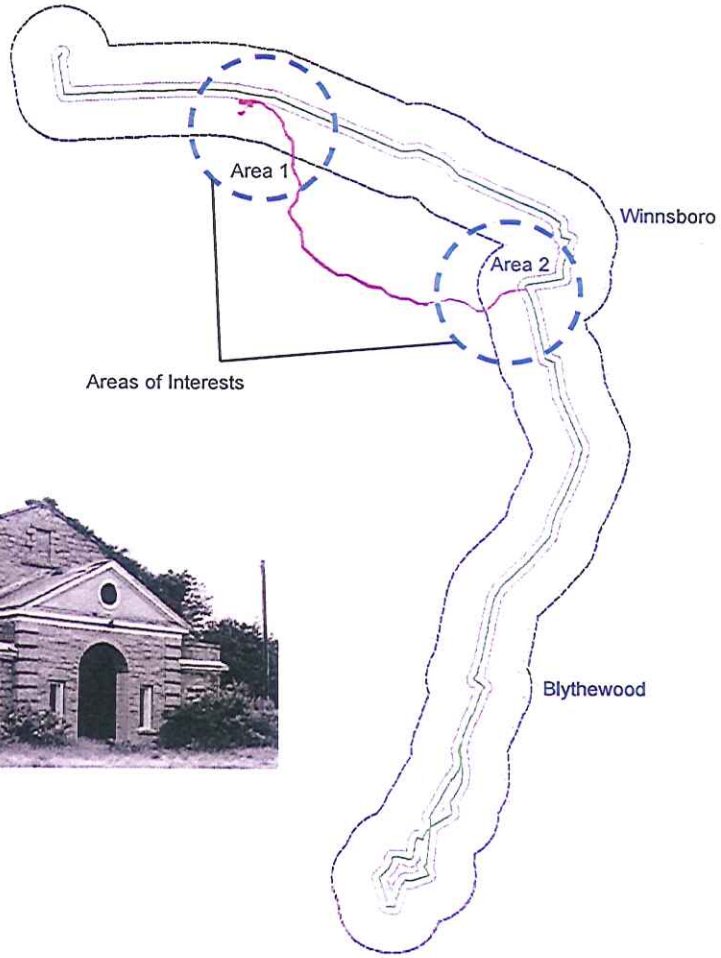
No Impact — High Impact

Encompassing the majority of downtown Winnsboro, this historic district has a high potential for individual viewpoints of the proposed transmission line. However, most of the district will be shielded from a potential view due to the close proximity of buildings, trees, and other foreground obstructions. As included in the description of the Ketchin Building, the complexity of the elements will likely distract the common observer from seeing distant objects. Also, the "industrial" qualities of the proposed transmission structures could almost conform to the urban fabric of downtown Winnsboro. The Potential Visual Impact Rating for this area is higher than the other properties simply because it has a potential for impacting more people and properties on a daily basis.

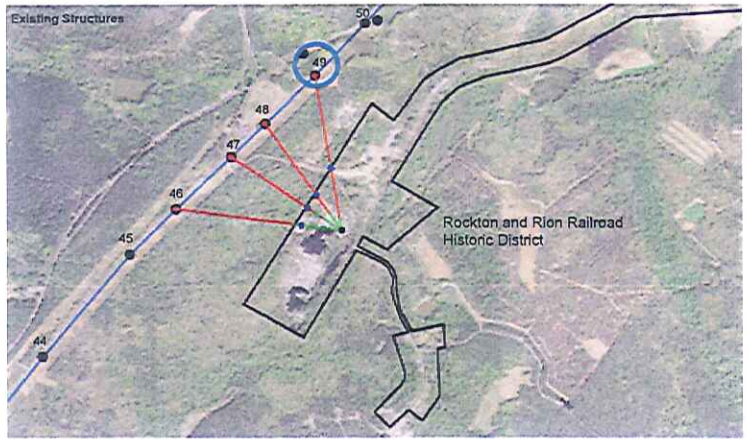
Direction of VCS1-Killian 230 kV Line

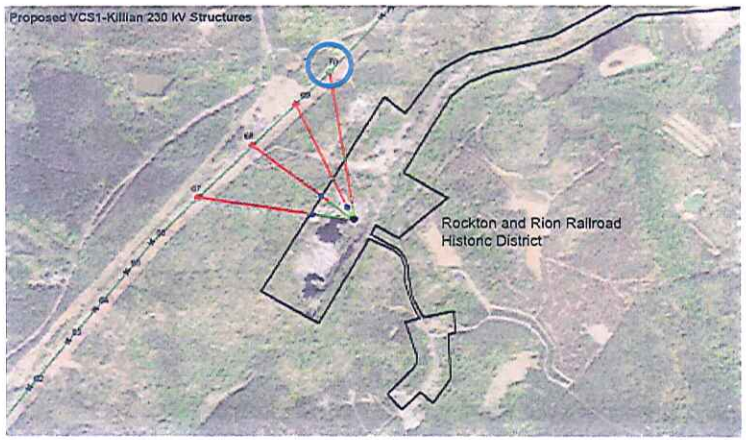
Rockton and Rion Railroad Historic District, NRHP-LISTED

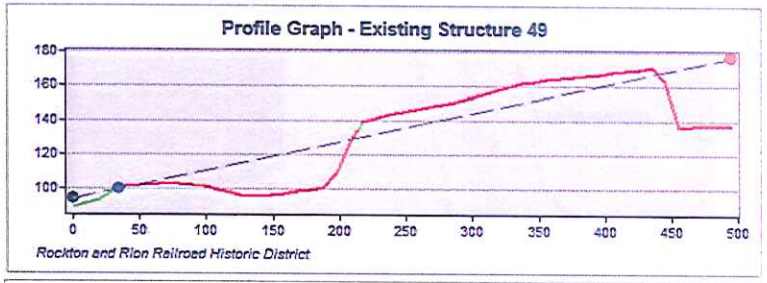
Year Laid Out: approx. 1883
Location: Fairfield County, SC
Distance From Route Centerline: N/A
BLM Total Scenic Quality Score: Range 2-8

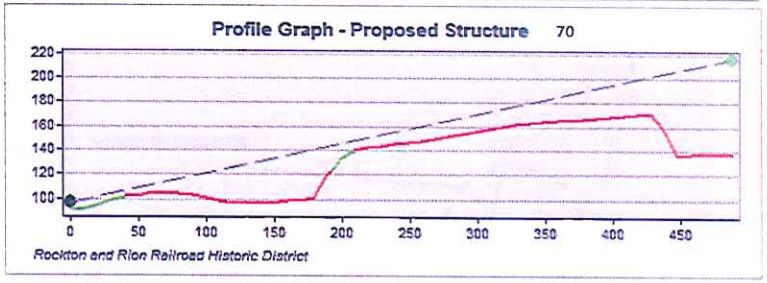


Rockton and Rion Railroad Historic District, NRHP-LISTED
Area 1









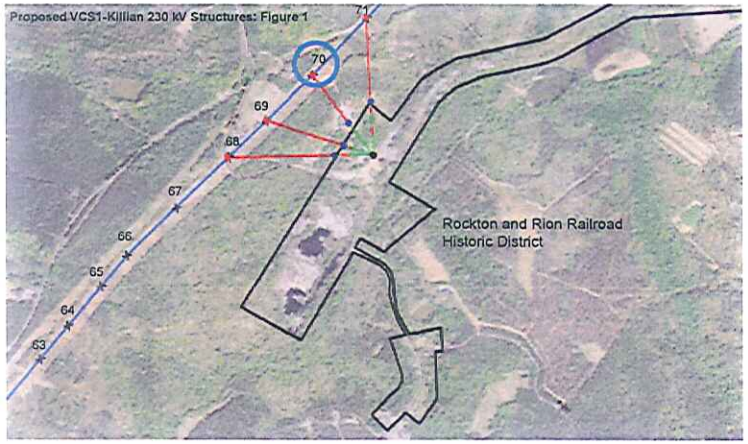
Total Structures Visible		Increase in Height	
Existing:	0	49(E) – 70(P):	+40'
Proposed:	1		

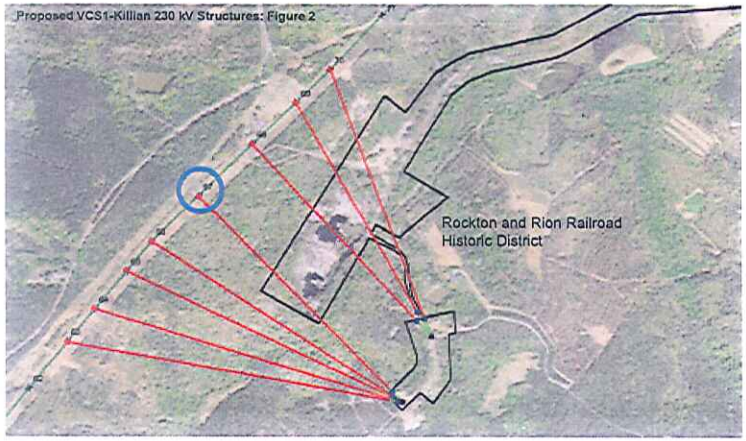
LEGEND

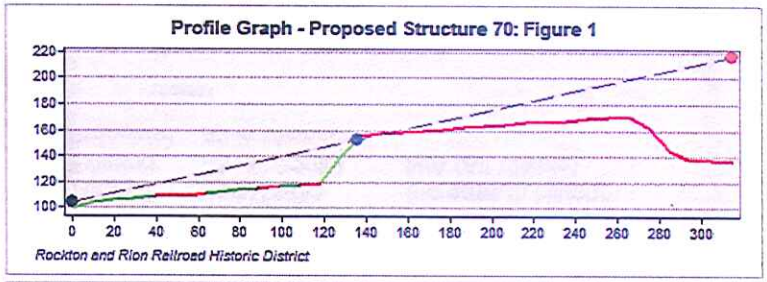
- Observer Location - 5' Vertical Elevation
- Target Location - Visible
- Target Location - Not Visible
- Field of Vision Surface Contact
- Visible Surface
- Not Visible Surface

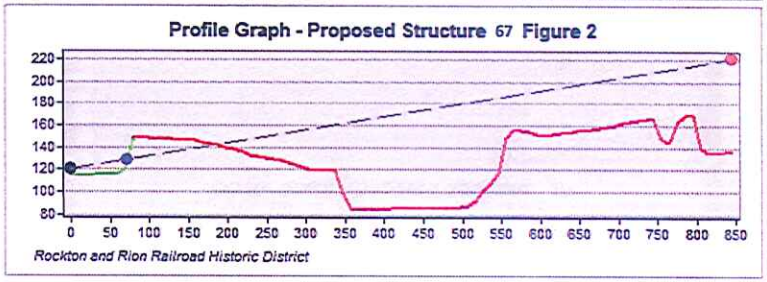
Note: Profile Graphs are vertically and horizontally exaggerated.

Rockton and Rion Railroad Historic District, NRHP-LISTED
Area 1









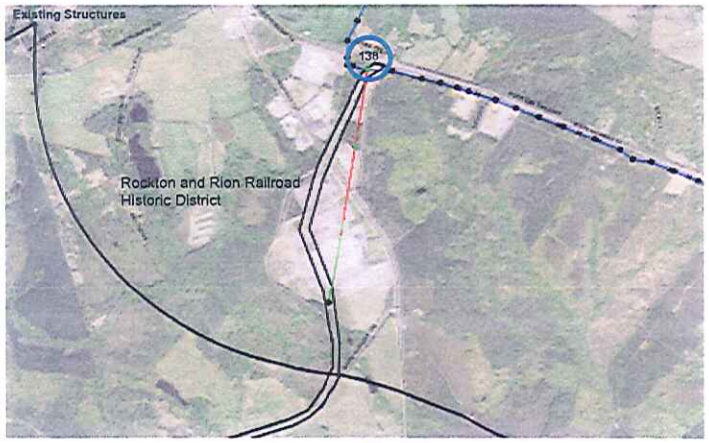
Total Structures Visible		Increase in Height
Existing:	0	N/A (None Visible)
Proposed:	0	

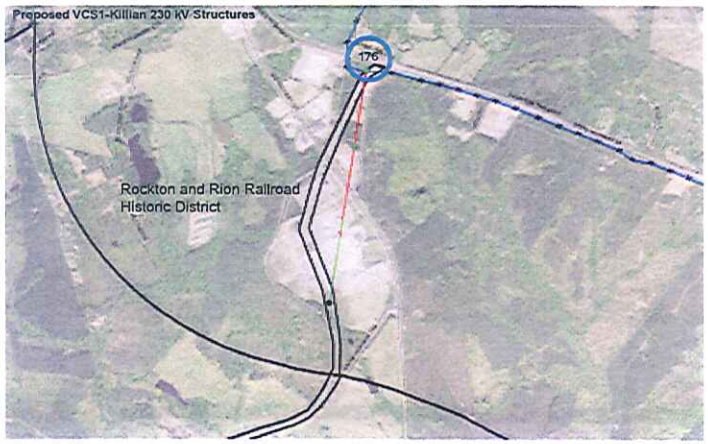
LEGEND

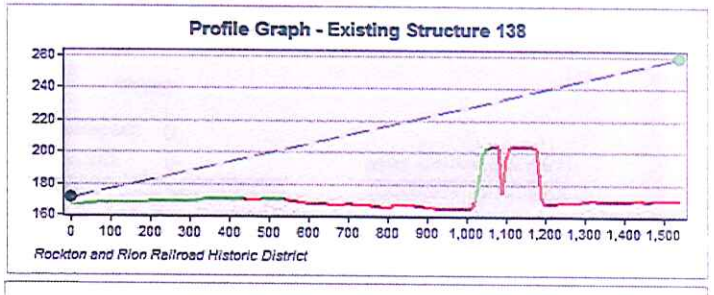
- Observer Location - 5' Vertical Elevation
- Target Location - Visible
- Target Location - Not Visible
- Field of Vision Surface Contact
- Visible Surface
- Not Visible Surface

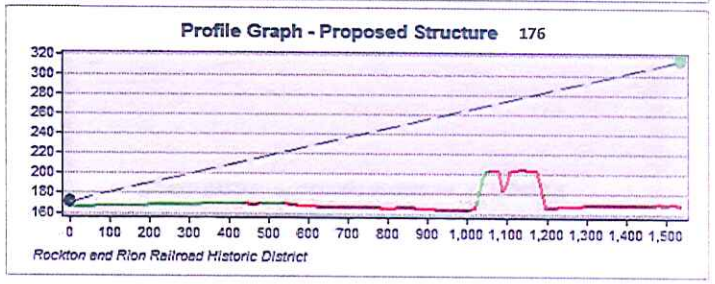
Note: Profile Graphs are vertically and horizontally exaggerated.

Rockton and Rion Railroad Historic District, NRHP-LISTED Area 2









Total Structures Visible		Increase in Height
Existing:	All in Vicinity	N/A (All Visible)
Proposed:	All in Vicinity	

LEGEND

- Observer Location - 5' Vertical Elevation
- Target Location - Visible
- Target Location - Not Visible
- Field of Vision Surface Contact
- Visible Surface
- Not Visible Surface

Note: Profile Graphs are vertically and horizontally exaggerated.

Rockton and Rion Railroad Historic District, NRHP-LISTED
Area 2

Potential Visual Impact Rating

0 1 ——— 10

No Impact — High Impact

Area 1

Located off Highway 213, this historic district is characterized by its late 19th century-early 20th century remnants of its industrial past. A transmission line would almost be appropriate crossing this property 100 years ago, but since its closure in 1945 the district has grown into a park-like setting, overgrown with vegetation and it's quarry filled with water. No existing transmission structures were visible from the field visit and only one proposed structure was visible according to the digital terrain model. However, that single visible location was derived from a location inaccessible to the public. All of the public roads are surrounded by dense vegetation and lie at elevations well below that of the proposed transmission structures, therefore reducing the likelihood of potential visible impacts.

Area 2

Area 2 adjoins Highway 34, just south of Winnsboro and directly under the Killian line. The entire area, which is only 160' wide, is characterized by light industrial buildings. While the entire district in Area 2 can view the proposed transmission structures, the lines should not negatively impact the already industrial area.

Area 1: Direction of VCS1-Killian 230 kV Line

Summary of Potential Changes in Structural Visibility from Historic Properties (Data From Digital Terrain Model)

Property (Structure #)	Existing Pole Height (Ft)	Proposed Pole Height (Ft)	Height Difference (Ft)	Amount of Proposed Pole Visible Over Obstructions (Ft)	Class
George P. Hoffman					
028(E) – 316(P)	85	100	20	50	Proposed Visible Only
029(E) – 315(P)	85	100	25	50	Both Visible
030(E) – 314(P)	85	100	15	35	Both Visible
031(E) – 313(E)	85	100	15	25	Both Visible
032(E) – 312(P)	85	95	10	20	Both Visible
033(E) – 311(P)	80	105	25	105	Both Visible
034(E) – 310(P)	80	105	25	105	Both Visible
037(E) – 307(P)	65	100	35	35	Both Visible
038(E) – 306(P)	75	105	40	70	Both Visible
039(E) – 304(P)	90	100	10	50	Both Visible
040(E) – 303(P)	70	100	30	50	Both Visible
Mount Hope					
094(E) – 233(P)	110	115	5	20	Both Visible
093(E) – 234(P)	80	105	25	25	Proposed Visible Only
Tocaland					
136(E) – 181(P)	90	100	10	85	Both Visible
135(E) – 182(P)	90	95	5	95	Both Visible
134(E) – 183(P)	90	110	20	110	Both Visible
133(E) – 184(P)	90	100	10	100	Both Visible
Hunstanton					
014(E) – 161(P)	80	110	30	40	Both Visible
005(E) – 171(P)	85	100	15	5	Proposed Visible Only
Rural Point					
018(E) – 157(P)	70	115	40	45	Proposed Visible Only
021(E) – 153(P)	90	110	20	60	Both Visible
Little River Baptist Church					
033(E) – 051(P)	40	80	40	50	Both Visible
The Oaks					
068(E) – 091(P)	50	90	40	10	Proposed Visible Only
Winnsboro Historic District					
111(E) – 139(P)	50	125	75	Varies By Location in District	
021(E) – 153(P)	90	110	20	Varies By Location in District	
Rockton and Rion Railroad HD					
049(E) – 070(P)	40	80	40	10	Proposed Visible Only
138(E) – 176(P)	90	115	25	65	Both Visible