

Bright Mountain Solar Project

Case No. 2022-00274



TAB 13

TAB 13 DESCRIPTION OF THE PROPOSED ELECTRIC TRANSMISSION LINE, ROUTE, AND APPURTENANCES

KRS 278.714(2)(b) *A full description of the proposed route of the electric transmission line or the carbon dioxide transmission pipeline and its appurtenances. The description shall include a map or maps showing:*

1. *The location of the proposed line or pipeline and all proposed structures that will support it;*
2. *The proposed right-of-way limits;*
3. *Existing property lines and the names of persons who own the property over which the line or pipeline will cross; and*
4. *a. The distance of the proposed electric transmission line from residential neighborhoods, schools, and public and private parks within one (1) mile of the proposed facilities; or
b. The distance of the proposed carbon dioxide transmission pipeline from residential neighborhoods, schools, and parks, either private or public, within one thousand (1,000) feet of the proposed facilities;*

KRS 278.714(2)(c) *With respect to electric transmission lines, a full description of the proposed line and appurtenances, including the following:*

1. *Initial and design voltages and capacities;*
2. *Length of line;*
3. *Terminal points; and*
4. *Substation connections;*

The proposed Project includes a 69 kV nonregulated transmission line, approximately 4 miles in length, to connect the Facility's collection substation to the regional electric grid at the POI. As described in Tab 2, the POI is the existing Bonnyman Substation, which is owned by Kentucky Power, a wholly-owned subsidiary of American Electric Power, Inc. A map of the proposed transmission line route, including proposed structure locations, property lines crossed, and schools, parks, and residential neighborhoods as defined by KRS 278.700(6) within 1 mile is included with this Tab as Attachment K.

The proposed right-of-way for the transmission line is approximately a 100-foot-wide corridor centered on the transmission line, with the right-of-way width varying slightly in some locations due to landowner considerations. The approximate locations of the terminal points of the transmission line are as follows:

- Facility collection substation: 83.28262°W, 37.29012°N
- Existing Bonnyman substation: 83.23654°W, 37.29054°N

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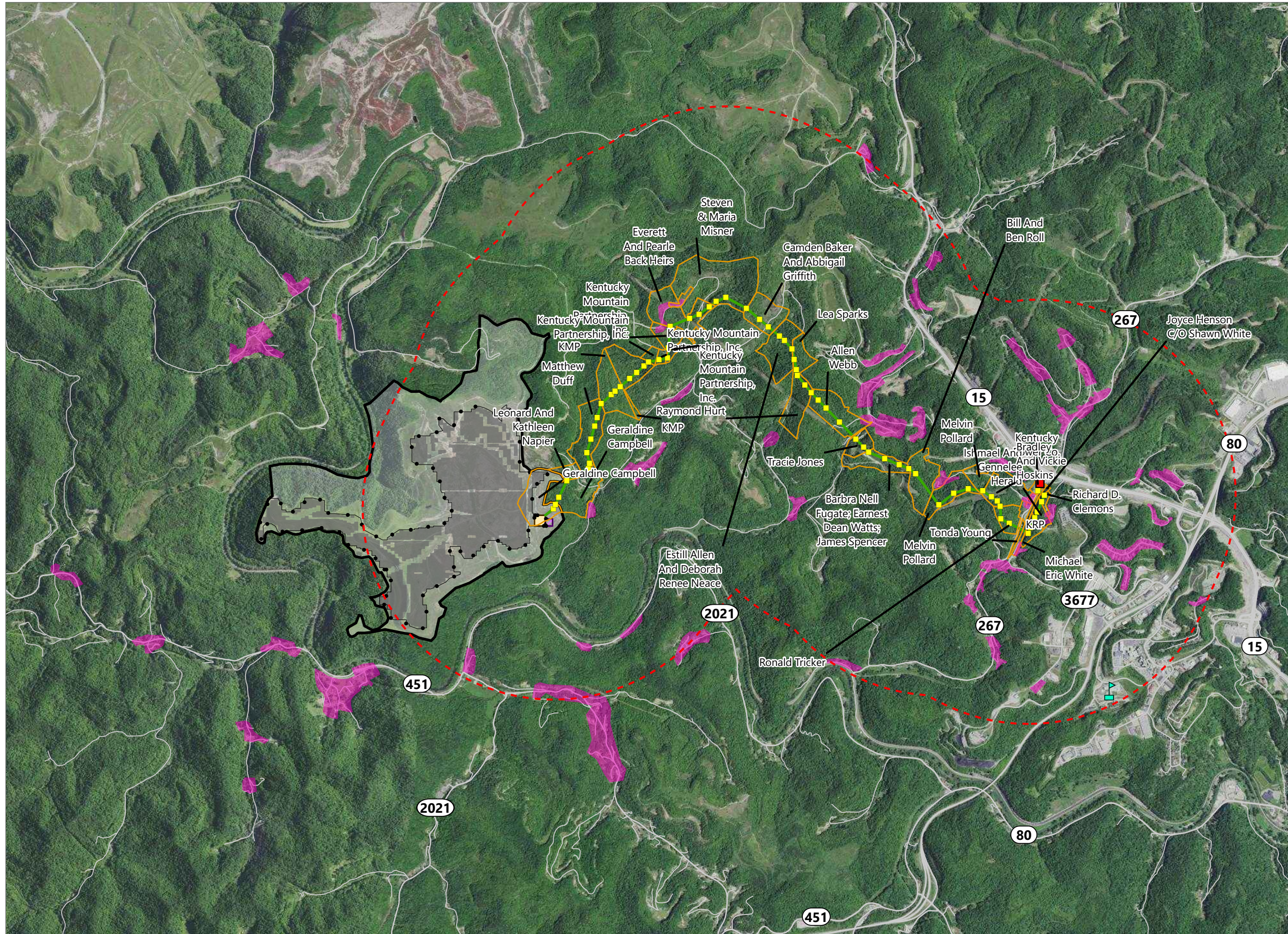


Attachment K – Map of Proposed
Electric Transmission Line

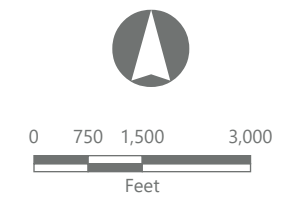
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Perry County, Kentucky

Tab 13 - Description of the Proposed Electric Transmission Line, Route, and Appurtenances



- Transmission Line Structure
- ▲ West Perry Elementary School
- Existing Bonnyman Substation
- Transmission Line
- Fenceline
- Proposed Transmission Line
- Parcel Residential Neighborhood
- O&M Building
- Facility Substation
- PV Panel Area
- 1-Mile Transmission Line Study Area
- Facility Area

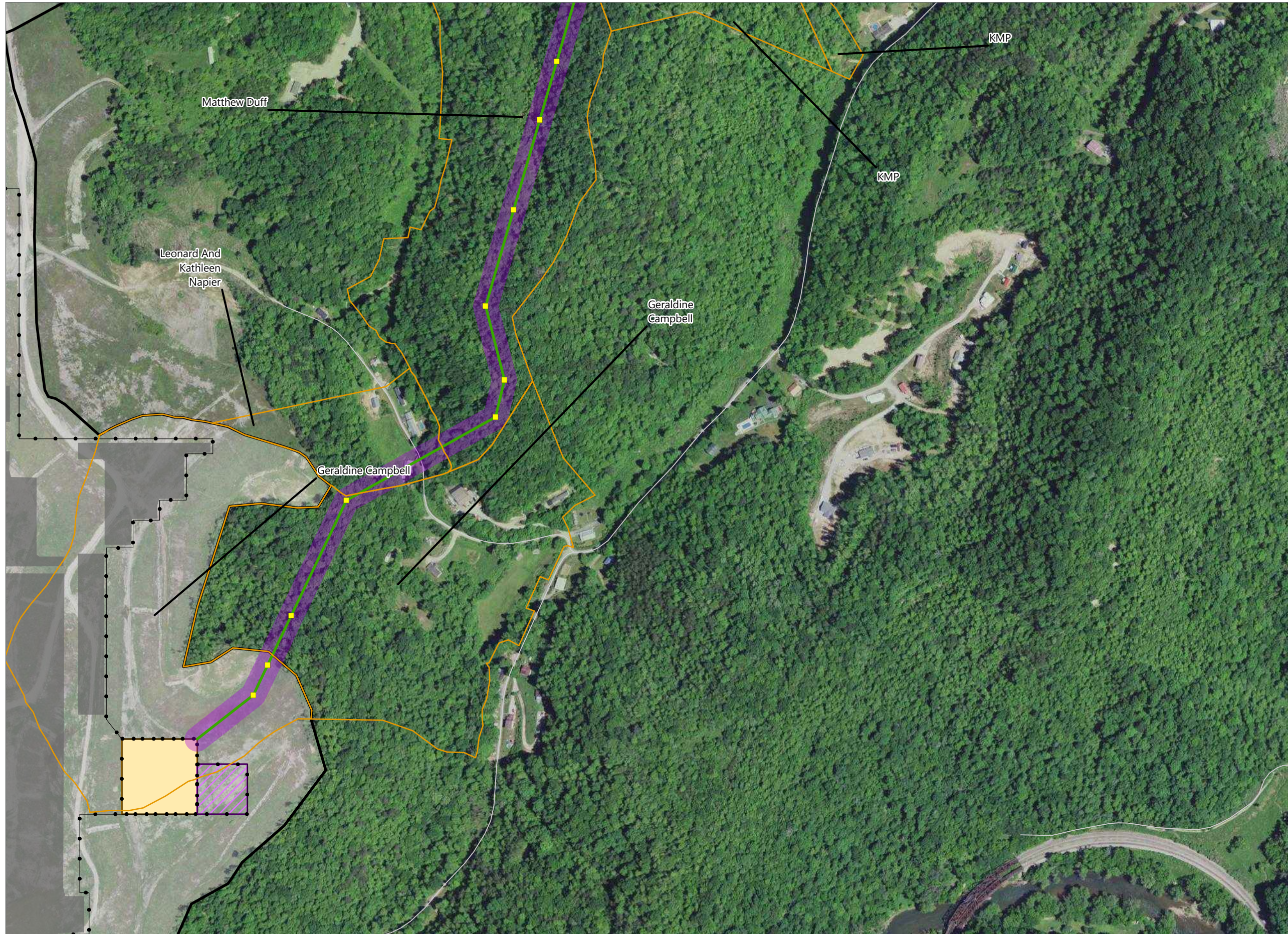


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 Basemap: USGS "NAIP Plus" orthoimagery map service

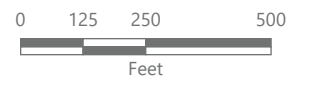
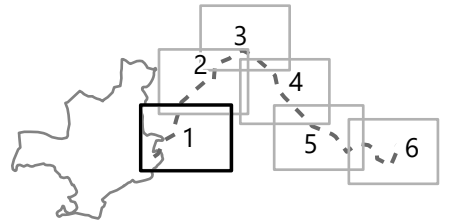
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Perry County, Kentucky

Tab 13 - Description of the Proposed Electric Transmission Line, Route, and Appurtenances



- Transmission Line Structure
- Transmission Line
- - - Collection Line
- Access Road
- Fenceline
- Approximate Transmission Line right-of-way
- ▨ O&M Building
- Facility Substation
- PV Panel Area
- ▭ Proposed Transmission Line Parcel
- ▭ Project Area



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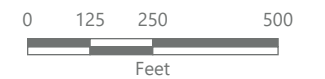
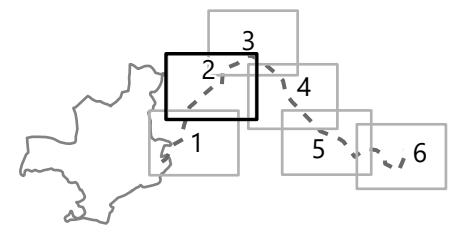


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- Transmission Line Structure
- Transmission Line
- Approximate Transmission Line right-of-way
- Proposed Transmission Line Parcel



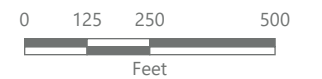
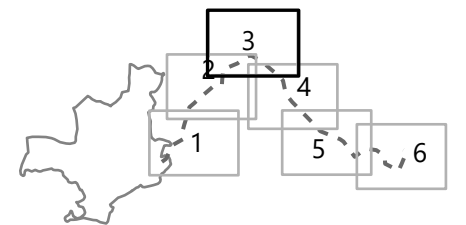
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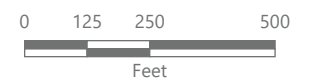
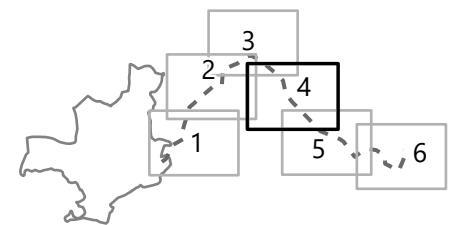


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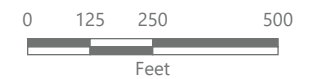
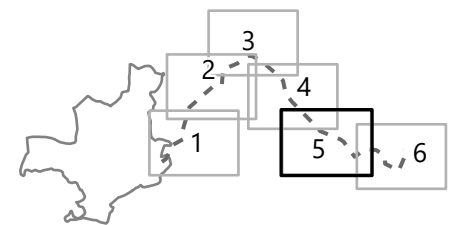


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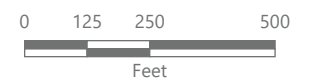
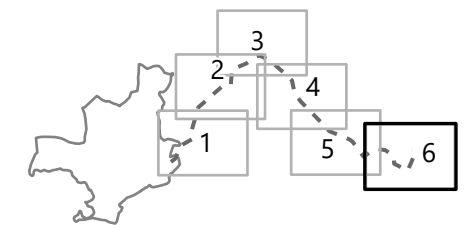


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- Transmission Line Structure
- Existing Bonnyman Substation
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- Approximate Transmission Line right-of-way
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