

EXHIBIT 12

Part 3 of 4



Proposed Structure

Substation

Proposed Transmission Line

Existing Prestonsburg - Thelma 46kV Line

New Access Road

Existing Road (to be improved)

Existing Road (no improvement)

Road

Water

Slope (degree)

≤18

18.1 - 26.5

26.6 - 45

> 45

REFERENCES:

- Centerline data sent by AEP Siting via e-mail on August 3, 2021; Structures preliminary spotted by DiGioia Gray.
- Access roads and associated features preliminary spotted by DiGioia Gray, September 2021.
- Slope developed in ArcGIS Pro 2.x using slope tool
- Hillshade Basemap - Ky_DEM_KYAPED_5FT_Phase2_MultiDirectionalHillshadeImage Service
- Coordinate System: NAD 1983 2011 StatePlane Kentucky South FIPS 1602 FT US

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Prestonsburg - Thelma 46kV Rebuild
Geohazard Risk Assessment

Slope Map

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| PROJECT NO. | | 2021-147 |
| DRAWN BY | | MLS |
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Name: 2021-147_AEP_PrestonsburgThelma46kV



- Legend
- Proposed Structure
 - Proposed Transmission Line
 - Existing Prestonsburg - Thelma 46kV Line
 - New Access Road
 - Existing Road (to be improved)
 - Existing Road (no improvement)
 - Road
 - Water
 - Slope (degree)
 - ≤18
 - 18.1 - 26.5
 - 26.6 - 45
 - > 45

REFERENCES:

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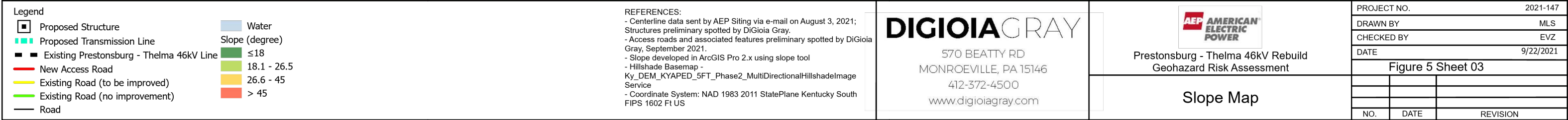
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Geohazard Risk Assessment

Slope Map

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 Proposed Structure
 Proposed Transmission Line
 Existing Prestonsburg - Thelma 46kV Line
 New Access Road
 Existing Road (to be improved)
 Existing Road (no improvement)
 Road

Water

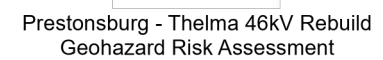
Slope (degree)

- ≤18
- 18.1 - 26.5
- 26.6 - 45
- > 45

REFERENCES:







- Centerline data sent by AEP Siting via e-mail on August 3, 2021;
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Slope Map

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 Proposed Structure
 Proposed Transmission Line
 Existing Prestonsburg - Thelma 46kV Line
 New Access Road
 Existing Road (no improvement)
 Road

Water

Slope (degree)

≤18

18.1 - 26.5

26.6 - 45

> 45













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Slope Map

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Legend







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|--|--|--|-------------|
|  | Proposed Structure |  | Water |
|  | Proposed Transmission Line | Slope (degree) | |
|  | Existing Prestonsburg - Thelma 46kV Line |  | ≤18 |
|  | New Access Road |  | 18.1 - 26.5 |
|  | Existing Road (to be improved) |  | 26.6 - 45 |
|  | Existing Road (no improvement) |  | > 45 |
|  | Road | | |






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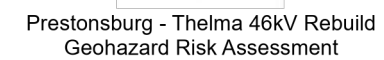
 Proposed Structure
 Substation
 Proposed Transmission Line
 Existing Prestonsburg - Thelma 46kV Line
 New Access Road
 Existing Road (to be improved)

— Road
 Water
 Slope (degree)
 ≤ 18
 18.1 - 26.5
 26.6 - 45
 > 45

REFERENCES:

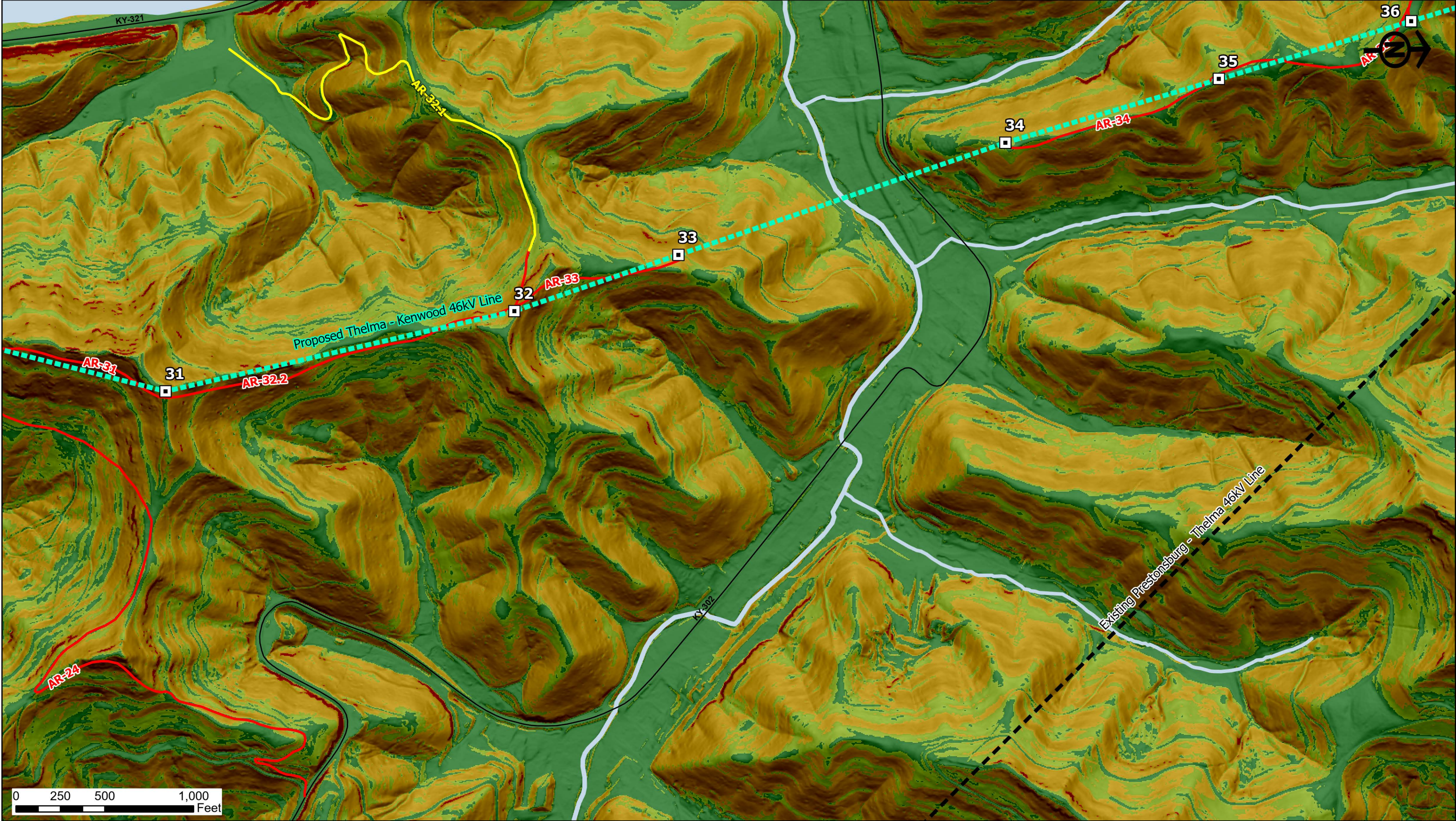
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- Coordinate System: NAD 1983 2011 StatePlane Kentucky South FIPS 1602 Ft US

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Slope Map

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Legend

Proposed Structure

Proposed Transmission Line

Existing Prestonsburg - Thelma 46kV Line

New Access Road

Existing Road (to be improved)

Road

Water

Slope (degree)

≤18

18.1 - 26.5

26.6 - 45

> 45

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Slope Map

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 Proposed Structure
 Proposed Transmission Line
 Existing Prestonsburg - Thelma 46kV Line
 New Access Road
 Existing Road (to be improved)
 Existing Road (no improvement)
 Road

Water

Slope (degree)

≤18

18.1 - 26.5

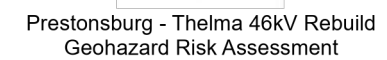
26.6 - 45

> 45

REFERENCES:

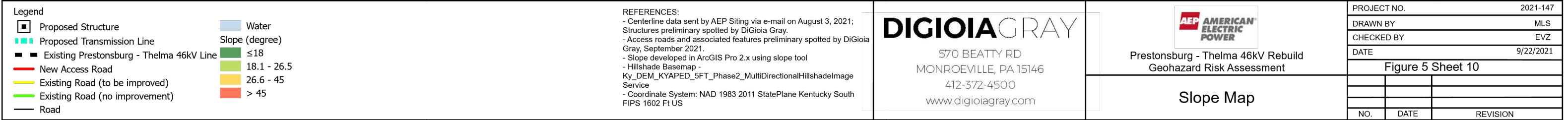
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| Figure 5 Sheet 09 | | |
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- Coordinate System: NAD 1983 2011 StatePlane Kentucky South
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Slope Map

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Legend

- Proposed Structure
- Substation
- Proposed Transmission Line
- Existing Prestonsburg - Thelma 46kV Line

- New Access Road
- Existing Road (to be improved)
- Existing Road (no improvement)
- Road
- Water

Slope (degree)

- ≤18
- 18.1 - 26.5
- 26.6 - 45
- > 45

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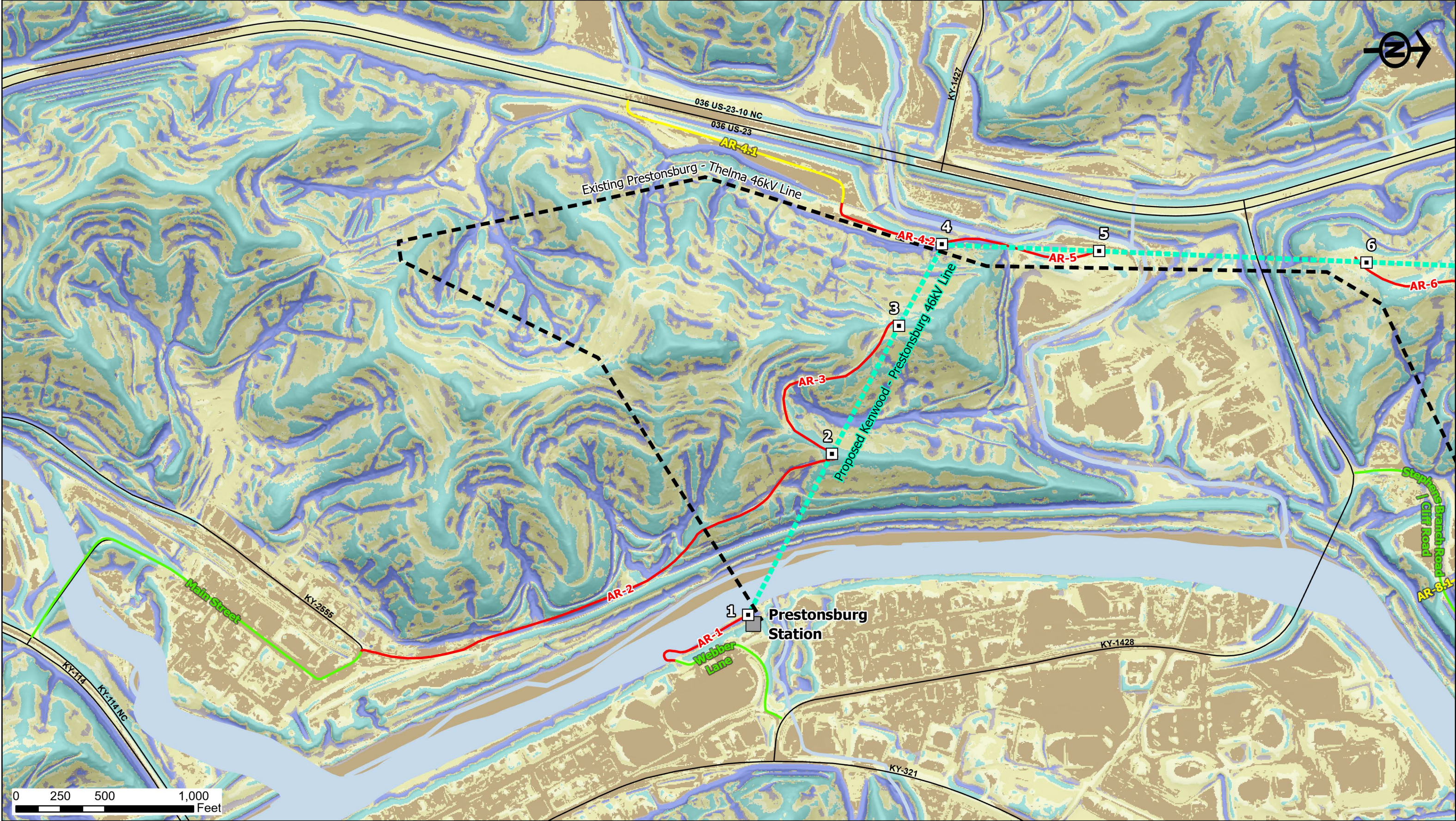
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Slope Map

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| Figure 5 Sheet 12 | | |
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Name: 2021-147_AEP_PrestonsburgTheima46kV



Legend

Proposed Structure

Substation

Proposed Transmission Line

Existing Prestonsburg - Thelma 46kV Line

New Access Road

Existing Road (to be improved)

Existing Road (no improvement)

Road

Water

Slope Position

Ridge

Upper Slope

Middle Slope

Flat

Lower Slope

Valley

REFERENCES:

- Centerline data sent by AEP Siting via e-mail on August 3, 2021; Structures preliminary spotted by DiGioia Gray.
- Access roads and associated features preliminary spotted by DiGioia Gray, September 2021.
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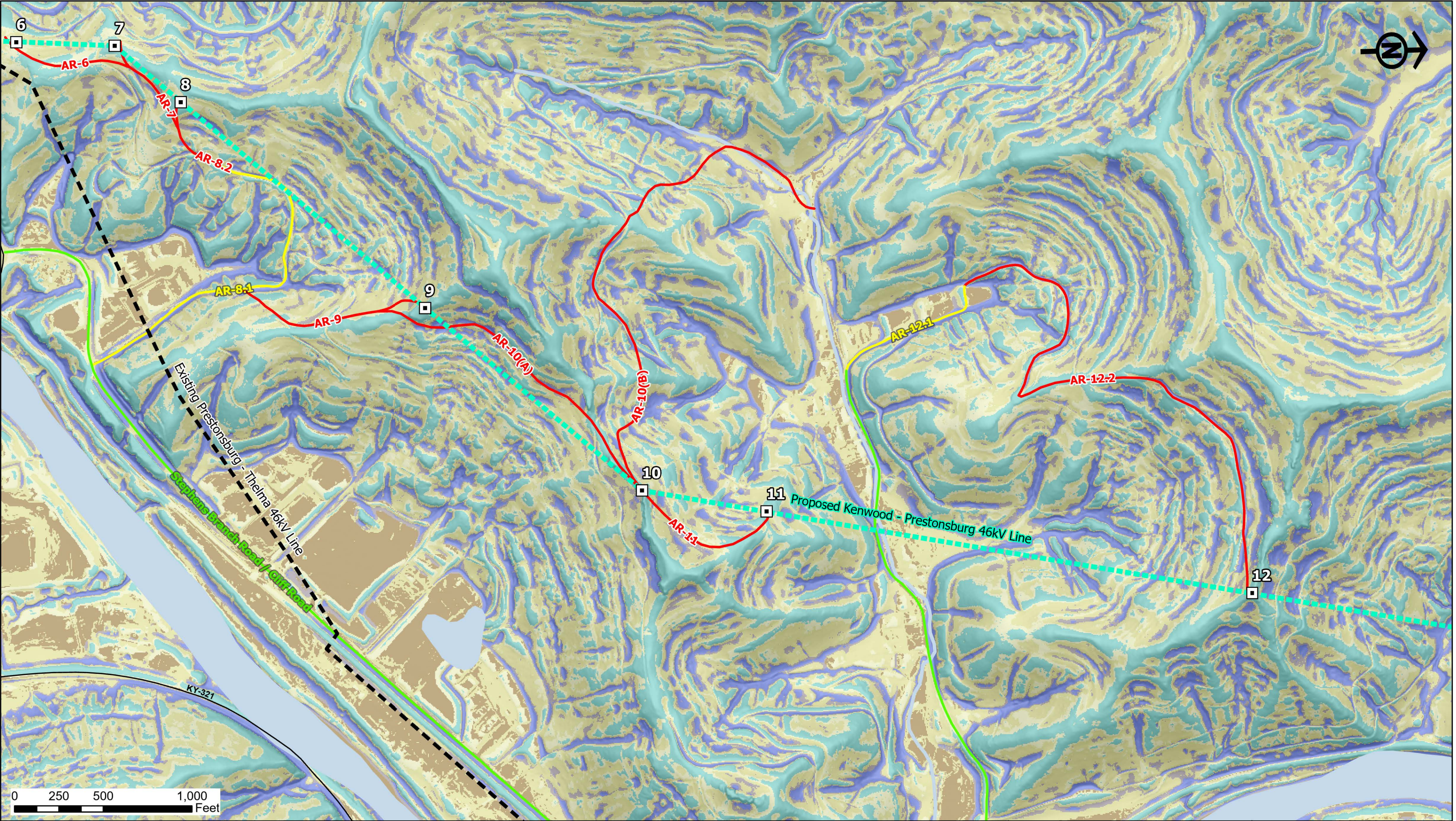
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Geohazard Risk Assessment

Slope Position

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Proposed Structure

Proposed Transmission Line

Existing Prestonsburg - Thelma 46kV Line

New Access Road

Existing Road (to be improved)

Existing Road (no improvement)

Road

Water

Slope Position

Ridge

Upper Slope

Middle Slope

Flat

Lower Slope

Valley

REFERENCES:

- Centerline data sent by AEP Siting via e-mail on August 3, 2021;

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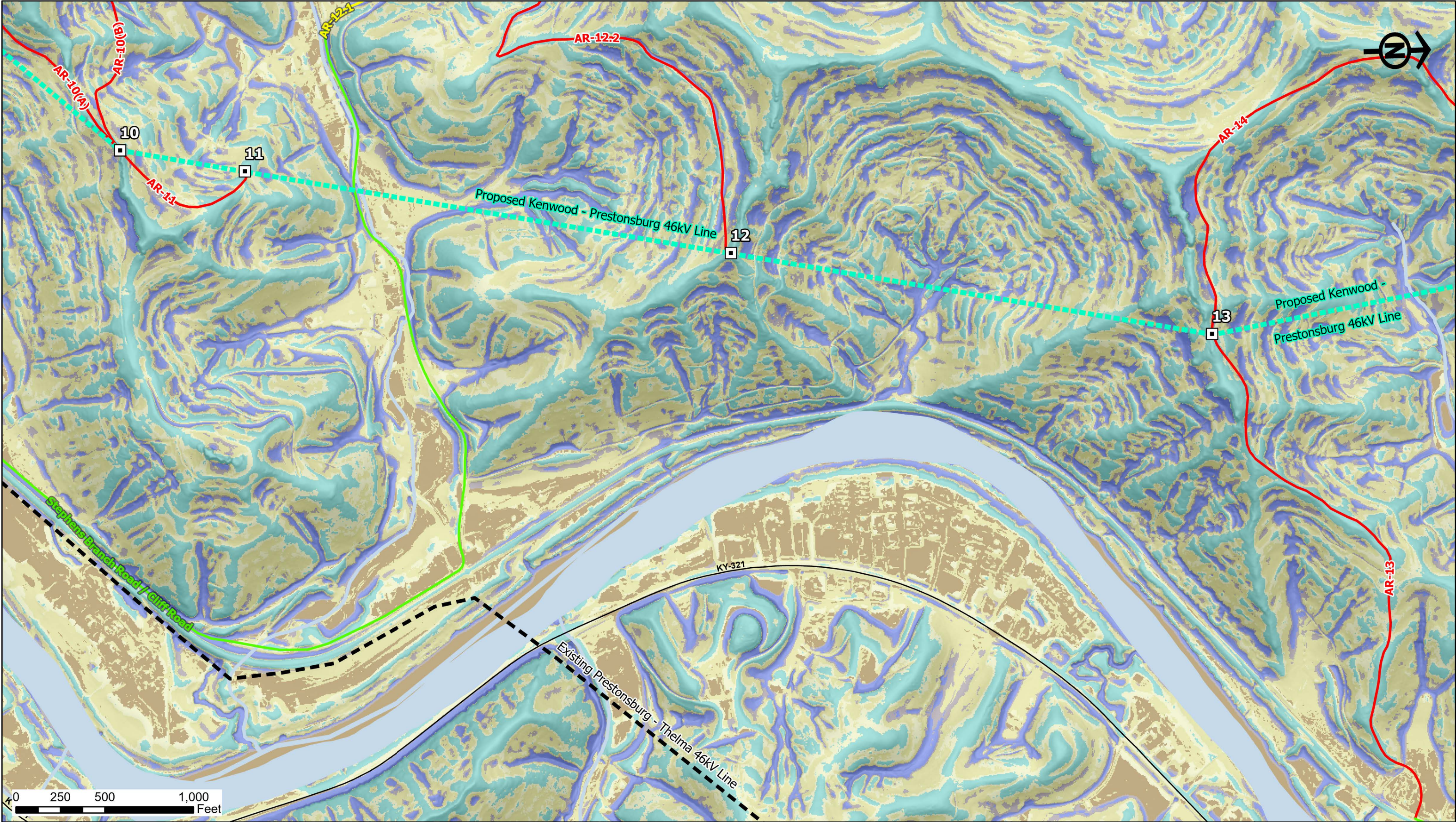
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Geohazard Risk Assessment

Slope Position

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| PROJECT NO. 2021-147 | | |
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| Figure 6 Sheet 02 | | |
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Name: 2021-147_AEP_PrestonsburgThelma46kV



Legend

Proposed Structure

Proposed Transmission Line

Existing Prestonsburg - Thelma 46kV Line

New Access Road

Existing Road (to be improved)

Existing Road (no improvement)

Road

Water

Slope Position

Ridge

Upper Slope

Middle Slope

Flat

Lower Slope

Valley

REFERENCES:

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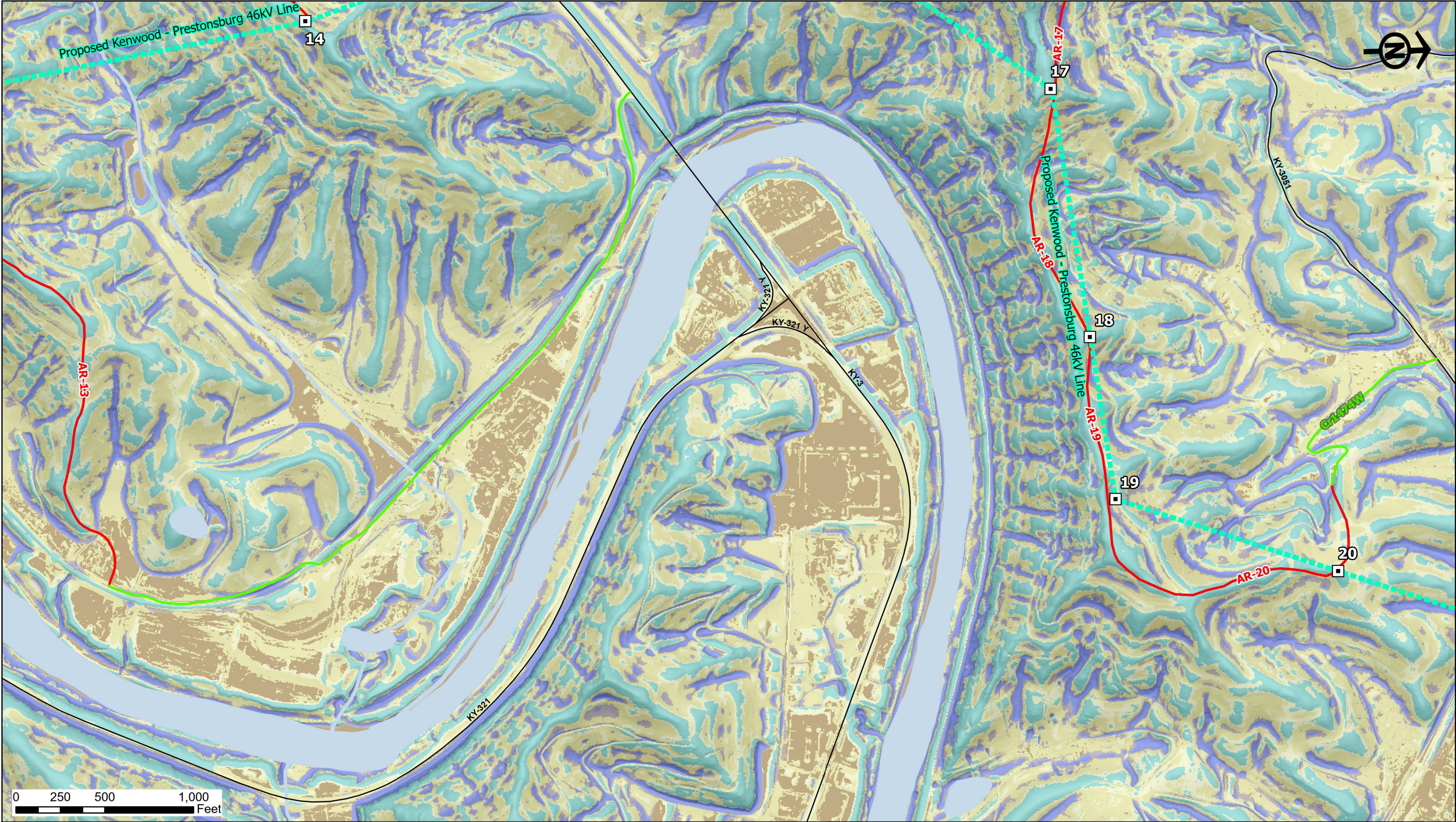
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Legend

Proposed Structure

Proposed Transmission Line

Existing Prestonsburg - Thelma 46kV Line

New Access Road

Existing Road (no improvement)

Road

Water

Ridge

Upper Slope

Middle Slope

Flat

Lower Slope

Valley

REFERENCES:

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Slope Position

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 Proposed Structure
 Proposed Transmission Line
 Existing Prestonsburg - Thelma 46kV Line

Slope Position

- Ridge
- Upper Slope
- Middle Slope
- Flat
- Lower Slope
- Valley

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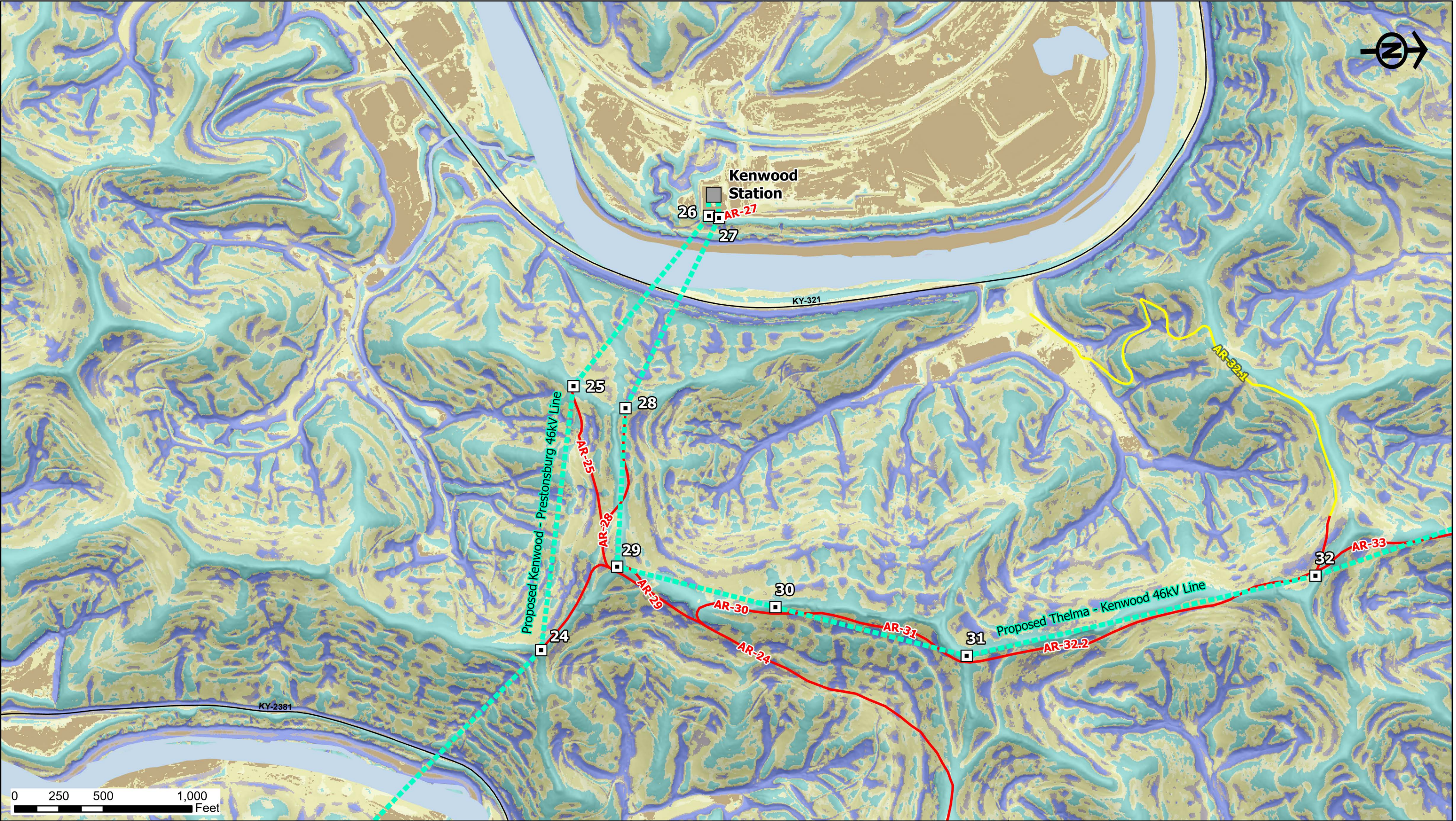
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Slope Position

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Name: 2021-147_AEP_PrestonsburgThelma46kV



Legend

Proposed Structure

Substation

Proposed Transmission Line

Existing Prestonsburg - Thelma 46kV Line

New Access Road

Existing Road (to be improved)

Road

Water

Slope Position

Ridge

Upper Slope

Middle Slope

Flat

Lower Slope

Valley

REFERENCES:

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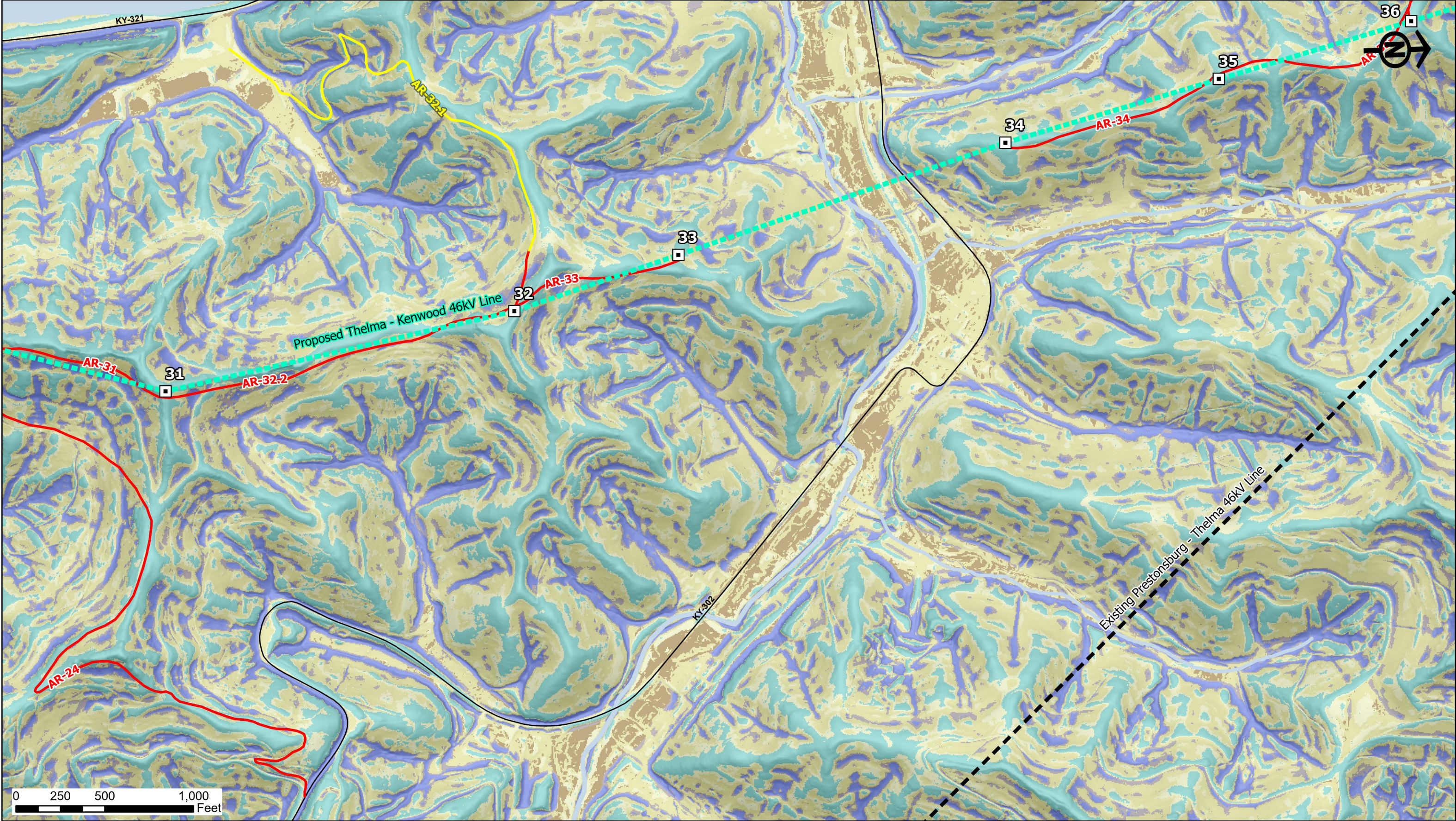
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Prestonsburg - Thelma 46kV Rebuild

Geohazard Risk Assessment

Slope Position

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Legend

Proposed Structure

Proposed Transmission Line

Existing Prestonsburg - Thelma 46kV Line

New Access Road

Existing Road (to be improved)

Road

Water

Slope Position

Ridge

Upper Slope

Middle Slope

Flat

Lower Slope

Valley

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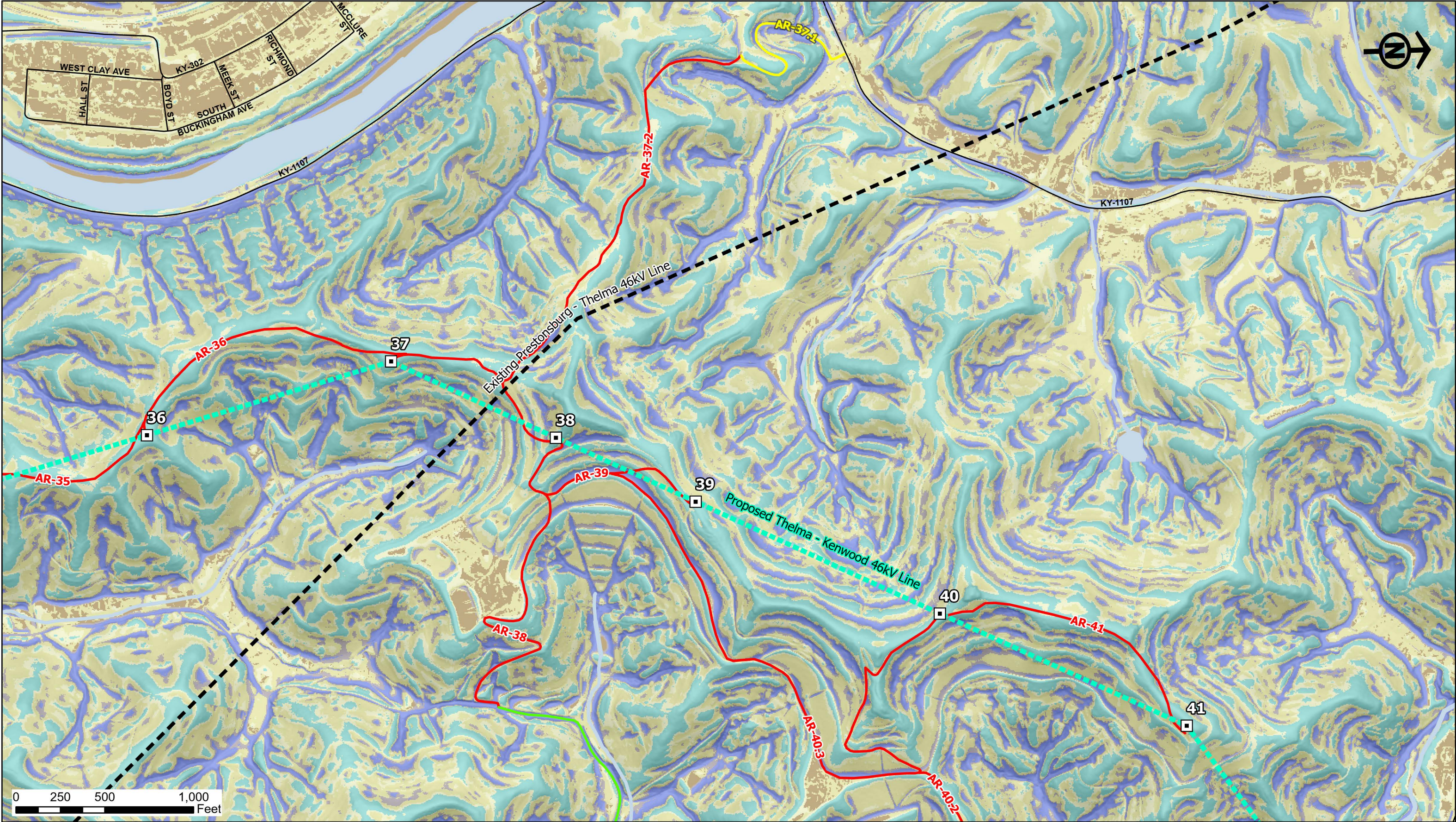
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Geohazard Risk Assessment

Slope Position

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Name: 2021-147_AEP_PrestonsburgThelma46kV



Legend

- Proposed Structure
- Proposed Transmission Line
- Existing Prestonsburg - Thelma 46kV Line
- New Access Road
- Existing Road (to be improved)
- Existing Road (no improvement)
- Road
- Water

Slope Position

- Ridge
- Upper Slope
- Middle Slope
- Flat
- Lower Slope
- Valley

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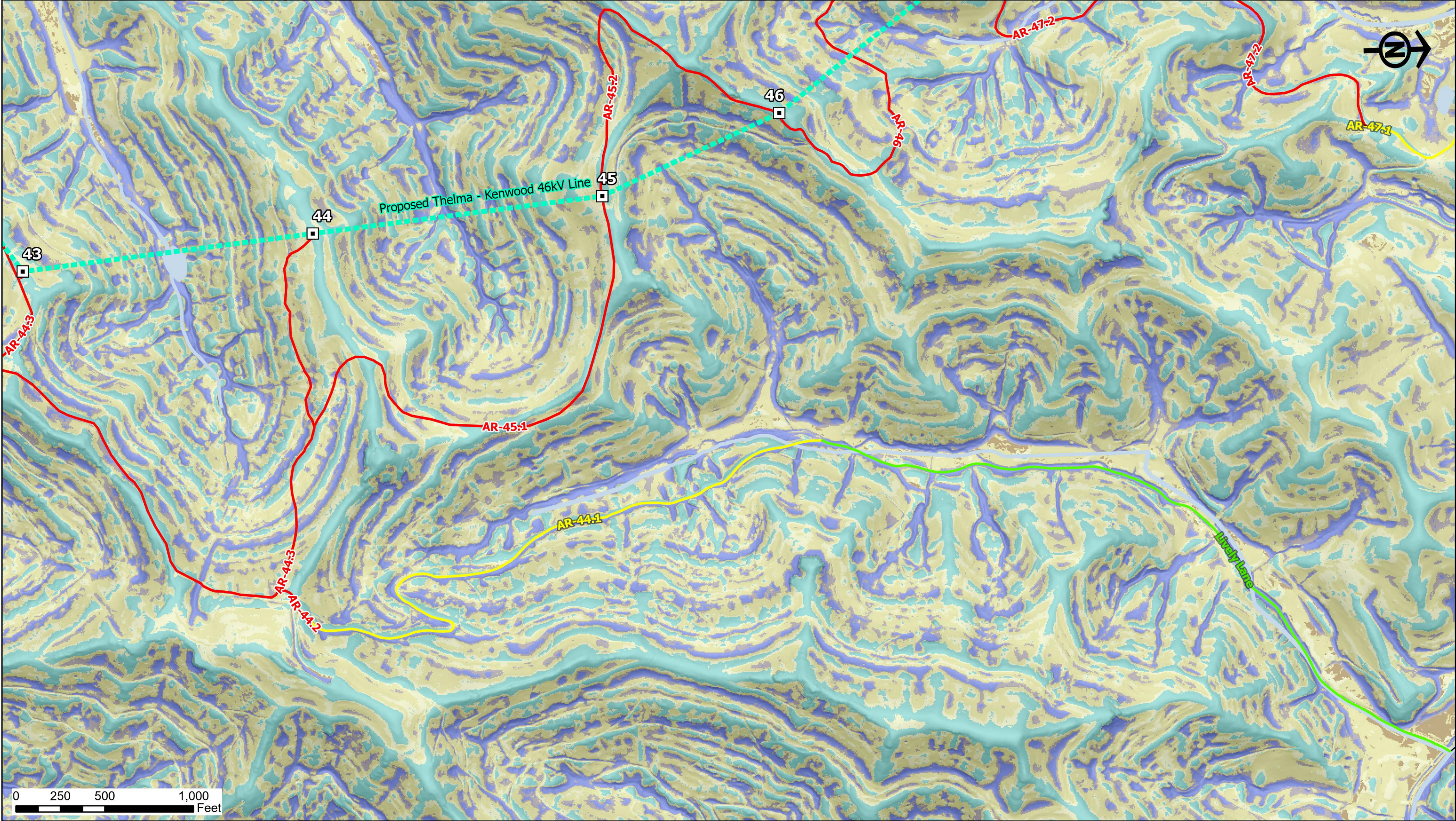
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Legend

Proposed Structure

Proposed Transmission Line

Existing Prestonsburg - Thelma 46kV Line

New Access Road

Existing Road (to be improved)

Existing Road (no improvement)

Road

Water

Slope Position

Ridge

Upper Slope

Middle Slope

Flat

Lower Slope

Valley

REFERENCES:

- Centerline data sent by AEP Siting via e-mail on August 3, 2021; Structures preliminary spotted by DiGioia Gray.

- Access roads and associated features preliminary spotted by DiGioia Gray, September 2021.

- Slope position developed in ArcGIS Pro 2.x using ArcHydro Topographic Position Index tool

- Hillshade Basemap - Ky_DEM_KYAPED_5FT_Phase2_MultiDirectionalHillshadeImage Service

- Coordinate System: NAD 1983 2011 StatePlane Kentucky South FIPS 1602 Ft US

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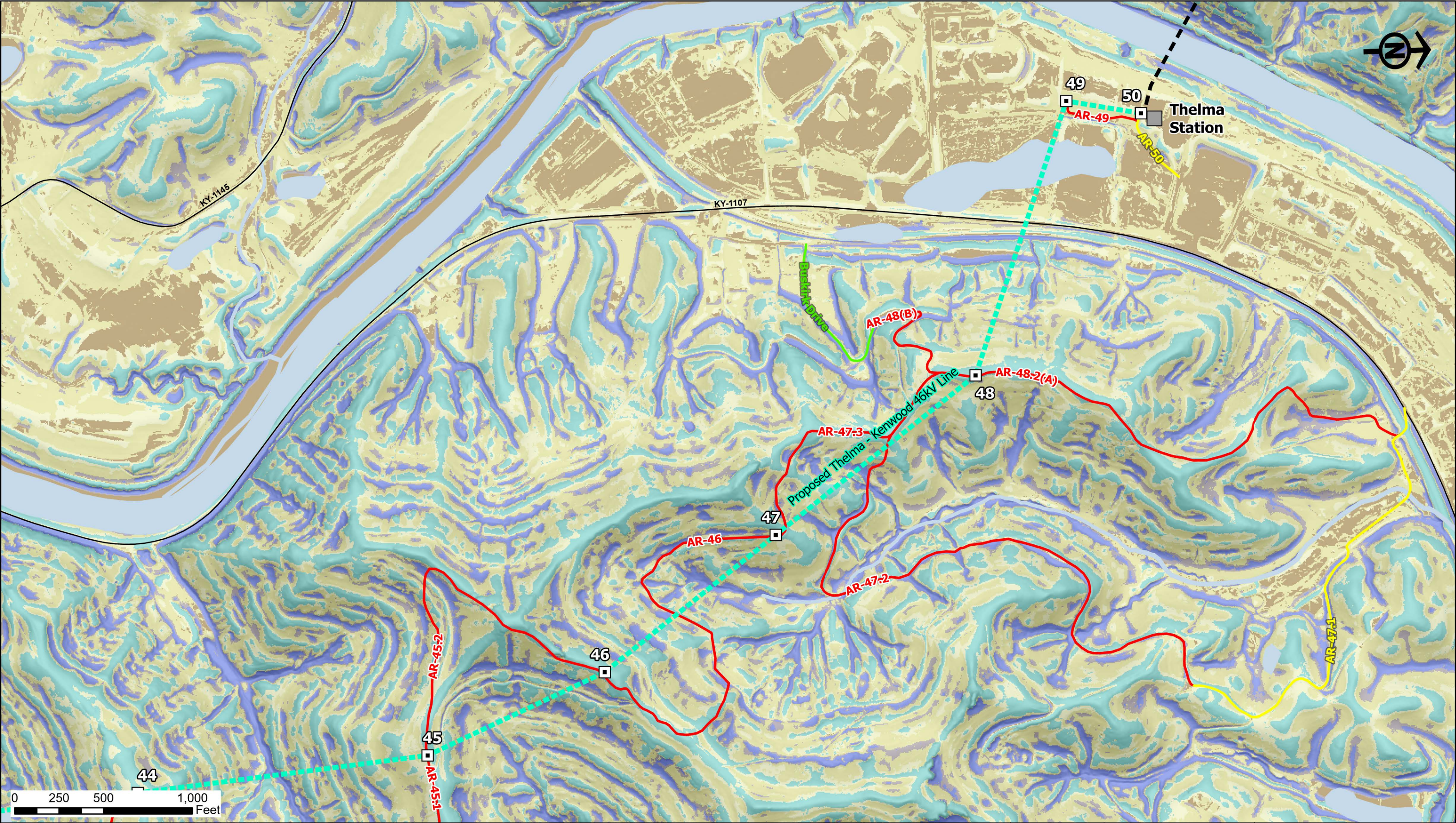
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AMERICAN
ELECTRIC
POWER

Prestonsburg - Thelma 46kV Rebuild
Geohazard Risk Assessment

Slope Position

| | | |
|----------------------|------|----------|
| PROJECT NO. 2021-147 | | |
| DRAWN BY MLS | | |
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| DATE 9/22/2021 | | |
| Figure 6 Sheet 11 | | |
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Legend

- Proposed Structure
- Substation
- Proposed Transmission Line
- Existing Prestonsburg - Thelma 46kV Line
- New Access Road
- Existing Road (to be improved)
- Existing Road (no improvement)
- Road
- Water

Slope Position

- Ridge
- Upper Slope
- Middle Slope
- Flat
- Lower Slope
- Valley

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| Figure 6 Sheet 12 | | |
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