

Appendix D
Phase I Archaeological Survey



**Phase I Archaeological Survey for the Proposed Central
Hampshire Public Service District-Purgitsville Phase III Water
Project in Hampshire County, West Virginia**

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November 25, 2023

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**Phase I Archaeological Survey for the Proposed Central
Hampshire Public Service District-Purgitsville Phase III Water
Project in Hampshire County, West Virginia**

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Abstract

In November of 2023, Weller & Associates, Inc. (Weller) conducted a Phase I Archaeological Survey for the proposed Central Hampshire Public Service District-Purgitsville Phase III Water Project in Hampshire County, West Virginia. The work was performed under contract with the Central Hampshire Public Service District and Region 8 Planning and Development Authority. The lead agency is the West Virginia Division of Culture and History (WVDCH).

The proposed project involves the installation of sections of water line in the southwestern portion of Hampshire County, West Virginia. This includes the installation of approximately 45,000 linear feet of water line. The depth of disturbance is between 36 and 48 inches and surface disturbances will be a maximum of 10 feet wide, 5.0 feet on either side of the waterline, during construction. The project includes installation along Russeldale Road, Rada Road, Bridge Hollow, Chickadee Road, Rilla Smith Road, Hidden Springs Road, Huffman Road, McCool Road, Stringtown Road, Mud Run, and Rt. 220. The total limit of disturbance (LOD) is approximately 4.16 hectares (ha) (10.33 acres [ac]). The project area is situated in a rural setting dotted with farms. For the most part the project runs along existing roads on stream valley floors as well as moderate to steep slopes and bench landforms.

The literature review study area and the Area of Potential Effects (APE) for visual effects are defined as a 1.6-kilometer (km) (1 mile [mi]) radius from the center of the project. There have been three professional surveys conducted within the study area, one of which (FR# RR-4-HM) is within the project area. There is one archaeological site recorded in the study area, but it is not in the project area. There are 35 architectural sites within the study area, but none are in the project. There are no National Register of Historic Places (NRHP) properties recorded in the study area. There is one Civil War battlefield recorded in the study area, but it is not in the project area. There are eight cemeteries recorded in the study area, but none are in the project area.

Fieldwork for this investigation included visual inspection and the excavation of shovel tests. As a result of this survey no previously undocumented sites were identified. Therefore, it is Weller's opinion that the proposed project will have no effect on archaeological resources that are eligible for inclusion on the NRHP. No further work is deemed necessary for this project.

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Introduction

In November of 2023, Weller & Associates, Inc. (Weller) conducted a Phase I Archaeological Survey for the proposed Central Hampshire Public Service District-Purgitsville Phase III Water Project in Hampshire County, West Virginia (Figures 1-7). The work was performed under contract with the Central Hampshire Public Service District and the Region 8 Planning & Development Authority. The West Virginia Division of Culture and History (WVDCH) is the lead agency for this project. The archaeological investigation for this project was conducted in response to Section 106 of the National Historic Preservation Act of 1966, as amended in 1992, U.S.C. 470f and WVSHPO correspondence (Appendix A). The document is congruent with the standards established by the Advisory Council of Historic Preservation and all new Section 106 (36 CFR Part 800) regulations. The federal standards and guidelines are supplemented by the procedures presented by the West Virginia Historic Preservation Office (WVSHPO) [Trader 2001]. The goals of this survey are to determine whether archaeological resources exist within the Area of Potential Effect (APE) and to determine whether any identified cultural resources meet the National Register of Historic Places (NRHP) Criteria for Evaluation.

Project Description

The proposed project involves the installation of sections of water line in the southwestern portion of Hampshire County, West Virginia. This includes the installation of approximately 45,000 linear feet of water line. The depth of disturbance is between 36 and 48 inches and surface disturbances will be a maximum of 10 feet wide, 5.0 feet on either side of the waterline, during construction. The project includes installation along Russeldale Road, Rada Road, Bridge Hollow, Chickadee Road, Rilla Smith Road, Hidden Springs Road, Huffman Road, McCool Road, Stringtown Road, Mud Run, and Rt. 220. The total limit of disturbance (LOD) is approximately 4.16 hectares (ha) (10.33 acres [ac]). The project area is situated in a rural setting dotted with farms. For the most part the project runs along existing roads on stream valley floors as well as moderate to steep slopes and bench landforms.

No archaeological sites were identified as a result of this investigation, as such, this report utilizes the short report format that is detailed in the West Virginia Guidelines for Phase I, II, and III Archaeological Investigations and Technical Reports (Trader 2001).

The field investigations were conducted on November 9-11, 2023, by Sharon Hedinger, Trevor Howell, and Jamie Vosvick. The Principal Investigator for this project was Seth T. Cooper (Appendix B). Justin Fryer served as the primary author, conducted the literature review, and was responsible for the figures. The weather during the investigation consisted of cloudy conditions with sporadic rain showers and high temperatures averaging 60 degrees daily.

Environmental Setting

Climate

Hampshire County has cold, snowy, and cloudy winters and is fairly warm and humid in the summer. During the winter months of December, January, and February, the average low temperature is in the mid-20s (Fahrenheit). The temperature during the summer months averages the mid-70s° F. The annual precipitation of the county is approximately 33 in. In November, the average precipitation is 2.0 in., while in August the average precipitation is 3.5 in. (United States Department of Agriculture, Soil Conservation Service [USDA, SCS] 1978).

Physiography, Relief and Drainage

Most of Hampshire County is hilly and sloped. The South and North Branch Potomac River, Little Cacapon River, North River, and Cacapon River and their tributaries are the principal drainages in the county (USDA, SCS 1978). The project area is drained by Elliber Run, Mill Creek, and Elmlick Run.

Geology

The geological bedrock of Hampshire County, including the project, consists of sedimentary rock. The sedimentary bedrocks in the majority of the county are part of the Devonian system. Small sections of the Mississippian and Silurian systems are found throughout the southern and eastern aspects of the county (USDA, SCS 1978).

Soils

There are 19 specific soils within the survey area (Appendix C, Table 1; USDA, SCS 1978). The majority of the project area is confined to sloping conditions/ ridges. A smaller portion is located within flood plain settings.

Table 1. Soils in the Project Area.				
Soil Symbol	Soil Name	% Slope	% In Project	Location
At	Atkins silt loam	-	4.7	Flood plains
BcC3	Berks channery silt loam	8-15	4.2	Hillslopes
BcD3	Berks channery silt loam	15-25	4.4	Hillslopes
BcE3	Berks channery silt loam	25-35	21.6	Hillslopes
BkC	Berks channery silt loam	8-15	3.4	Mountain slopes/ Ridges
BkD	Berks channery silt loam	15-25	2.4	Mountain slopes/ Ridges
BkF	Berks channery silt loam	35-65	3.9	Mountain slopes/ Ridges
CkB	Clarksburg channery silt loam	3-8	0.7	Hillslopes

Table 1. Soils in the Project Area.				
Soil Symbol	Soil Name	% Slope	% In Project	Location
CkC	Clarksburg channery silt loam	8-15	7.6	Hillslopes
EbD3	Edom silt clay loam	15-25	2.0	Hillslopes
ErB	Ernest silt loam	3-8	0.5	Hillslopes
ErC	Ernest silt loam	8-15	1.1	Hillslopes
FA	Fluvaquents	-	13.4	Flood plains
MvB	Murrill channery loam	3-8	6.0	Hillslopes
Ph	Philo silt loam	-	2.1	Flood plains
WeD3	Weikert channery silt loam	15-25	1.3	Ridges
WeE3	Weikert channery silt loam	25-35	9.9	Ridges
WeF3	Weikert channery silt loam	35-65	0.1	Hillslopes
WkF	Weikert-Berks channery silt loams	35-65	10.6	Hillslopes

Flora & Fauna

The Pleistocene-Holocene environment for this region of West Virginia was characterized as a mixed hardwoods forest region (Delcourt and Delcourt 1980). The first European settlers in the region encountered an environment which had become established ca. 8,000 Before Present (B.P.) and remained essentially unchanged until their arrival. The predominant trees were oak, poplar, chestnut, spruce, maple, and hemlock; but less dominant species such as ash, blackgum, black walnut, sycamore, elm, beech, cherry, and butternut were also found. Shrubs included sumac, elder, pawpaw, dogwood, haw, sassafras, hazel, crab apple, redbud, laurel, and rhododendron. There were wild fruits such as blackberries, strawberries, service berries, cherries, haws, mulberries, raspberries, grapes, plums, crab apples, elderberries, huckleberries, and teaberries (Miller 1969). Most early settlers used the land primarily to grow the crops necessary to sustain themselves and their families. Fauna encountered by these first settlers included bison, bear, deer, elk, panthers, wolves, wildcats, foxes, raccoons, beavers, opossums, skunks, otters, minks, muskrats, squirrels, rabbits, and woodchucks (Miller 1969).

Research Design

The purpose of this Phase I survey is to locate and identify cultural resources that will be affected by the planned construction activities within the APE. Once these resources are identified, they are evaluated for their eligibility to the NRHP. The literature review aspect of these investigations is to answer or address the following questions:

- 1) Did the literature review reveal anything that suggests the project will impact previously recorded resources, and what is the relationship of previously recorded properties to the project?
- 2) Are cultural resources likely to be encountered in the APE?

Archaeological Field Methods

Field methods utilized by Weller during this survey consisted of shovel test excavation and visual inspection. The following is a brief description of these methods.

Shovel tests. This method was utilized in areas where ground surface visibility was less than 20 percent. Shovel tests were 50 centimeters (cm) by 50 cm in size and were excavated at 15-meter (m) intervals. The soil from these shovel tests was screened through 0.25-inch hardware mesh cloth. Excavation of the shovel tests terminated when either 10 cm of sterile subsoil had been excavated, or if subsoil was not encountered in the shovel test, then at 50 cm. A record was kept for all shovel tests excavated. This record included soil profile, soil texture, soil color (Munsell), and the presence /absence of cultural materials. After excavation of the shovel test was complete, a representative profile was drawn in each area which showed the depth of the shovel test and the stratigraphy. If a shovel test contained cultural artifacts, then radial shovel tests will be excavated at 5-meter (m) intervals within the project boundaries.

Visual inspection. All of the APE was visually inspected. This consisted of a walkover with the intention to locate disturbed areas, as well as potential structure remnants, dumps, etc. During the visual inspection, it can also be sometimes determined whether soil disturbances may be present by the identification of existing utility markers and old two track roadbeds. Additional project pertinent information that can be ascertained and useful consists of tree growth age and varying types of ground cover such as specific flower/plant types which are present and may be associated with past historic activities.

The application of the resulting field survey methods was documented in field notes, field maps, and project plan maps.

Curation

No artifacts 50 years or older were recovered from this investigation. The field notes and maps for this project will be maintained at Weller & Associates.

Literature Review

The literature review was initiated by Justin Fryer on November 9, 2023. This review consisted of the examination of the records maintained on the West Virginia State Historic Preservation Office (WVSHPO) online database for an area extending 1.0 mile from the project center line. This information included cultural resource management

reports, topographic maps, site forms, cemetery files, and National Register of Historic Places (NRHP) files (Figures 6-9).

The literature indicated that there have been three professional surveys conducted within the study area, one of which is within the project area (Table 2). FR # RR-4-HM (Vosvick and Jackson 2017) encompasses the entirety of the project area. This was a survey and NRHP evaluation for cemeteries in Hampshire County.

Table 2. Previous Archaeological Surveys Recorded in the Study Area.			
<u>FR #</u>	<u>Type</u>	<u>In Project</u>	<u>Author</u>
09-1306-HM	Phase I Cell Tower	N	Zink 2009
18-75-MULTI	Phase I Communication	N	Klein and Salvato 2017
RR-4-HM	Survey and NRHP Cemetery Evaluation	Y	Vosvick and Jackson 2017

A review of the archaeological site location map showed that there is one archaeological site in the study area, but it is not in the project area. This site, 46MI27, is recorded as a prehistoric workshop. There are no temporal known temporal periods associated with this site.

An examination of Historic Property Inventory files indicated the presence of 35 architectural sites within the study area (Table 3). None of these are within the project area.

Table 3. Historic Properties Recorded in the Study Area.					
<u>HPI #</u>	<u>Name</u>	<u>Address</u>	<u>Arch Style</u>	<u>Historic Use</u>	<u>Date</u>
HM0090 0001	Marvin Chapel UM Church	Rt. 220/28	Gothic	Church	c. 1920
HM0090 0002		Rt. 220/8	Cross Gable	Residence	c. 1960
HM0091 0004		U.S. 220	Double-Pile	Residence	c. 1900
HM0091 0005		U.S. 220	Vernacular	Residence	c. 1880
HM0091 0006	White Pine Church of the Brethren	U.S. 220	Gable Front	Church	c. 1950
HM0091 0007		U.S. 220	I House	Residence	c. 1900
HM0122	Kelley House	Mill Creek District Mud Run Road	Mid-19th Century	Residence	1856
HM1180	Old Turnpike Segment	Off road, behind the Old Pine Church		Turnpike Segment	c. 1830
HM1182		U.S. 220	Bungalow	Residence	c. 1930
HM1186	Old Purgitsville Post Office	U.S. 220	Gable Front	Post Office	c. 1920
HM1187		U.S. 220	Double House	Residence	c. 1800
HM1188		U.S. 220	Side Hallway	Residence	c. 1880
HM1189		U.S. 220	I House	Residence	c. 1900

Table 3. Historic Properties Recorded in the Study Area.					
<u>HPI #</u>	<u>Name</u>	<u>Address</u>	<u>Arch Style</u>	<u>Historic Use</u>	<u>Date</u>
HM1190	Mill Creek School	U.S. 220	Modern	Commercial	c. 1950
HM1193		Unnamed dirt lane off of Huffman Road	I House	Residence	c. 1850
HM1194		Huffman Road	Side Gable	Residence	c. 1880
HM1195		Huffman Road	Gable Front	Residence	c. 1900
HM1196		Huffman Road	Double House	Residence	c. 1800
HM1197		Huffman Road at the Hardy County Line	Gable Front and Wing	Residence	c. 1880
HM1198	Stonework Culvert	Huffman Road/ 220 Intersection		Stone Culvert	c. 1930
HM1199		Grove Lane	Massed Plan	Residence	c. 1880
HM1200		Grove Lane	I House	Residence	c. 1880
HM1201	Cement Culvert	Grove Lane		Stone Structure	c. 1930
HM1211		Stringtown Road	Massed Plan	Residence	c. 1900
HM1212		Stringtown Road/ Sector Road Intersection	Bungalow	Residence	c. 1930
HM1213		Stringtown Road	I House	Residence	C. 1910
HM1214		U.S. 220/28	I House	Residence	c. 1930
HM1215		183 Mud Run Road	I House	Residence	c. 1820
HM1216		HC 66, U.S. 220	I House	Residence	c. 1890
HM1217		Rt. 220 Box 9 HC 66	Gable Front	Commercial	c. 1930
HM1218	Mill Creek Valley Farms	HC66 Rt. 220	Bungalow	Residence	c. 1930
HM1219		Rt. 1, Box 44 A7 U.S. 220	I House	Residence	c. 1880
HM1220	Mt. Olive UM Church	Rt. 220	Gable Front	Church	c. 1920
HM1221		Intersection of U.S. 220 and Davy Rd.	American Foursquare	Residence	c. 1910
HM1222		U.S. 220	Cemetery	Cemetery	

A review of the WVSHPO Civil War online database indicates that a small skirmish associated with the actions further to the north in Burlington may have occurred near Purgitsville on April 7-7, 1863. (Brewer & Donaldson 2011). However, there is insufficient evidence to corroborate this.

There are no NRHP properties recorded in the study area.

There are eight cemeteries recorded in the study area, but none are within the project area. These are sites 46HM114 (Unnamed), 46HM142 (Unnamed), 46HM145

(Rinker-Hartman Cemetery), 46HM188 (Unnamed), 46HM226 (Unnamed), 46HM227 (Burns Family Cemetery), 46HM228 (Unnamed), and 46HM262 (Agnew Family Cemetery).

A review of the USGS *1920 Keyser and 1920 Moorefield, West Virginia 15 Minute Series (Topographic)* map depicts four structures within the project area (Figures 10-11). A review of the USGS *1975 Burlington and 1973 Old Fields, West Virginia 7.5 Minute Series (Topographic)* map indicates several structures adjacent, but none located directly within the project area (Figures 2-3).

Evaluation of Research Questions 1 and 2

There were two questions presented in the research design that will be addressed at this point. These are:

- 1) Did the literature review reveal anything that suggests the project will impact previously recorded resources, and what is the relationship of previously recorded properties to the APE?
- 2) Are cultural resources likely to be identified in the APE?

There are no sites indicated within the project area, and only one site in the study area. The project area has been subjected to professional survey in two small areas as well as a county wide cemetery research project. Although only one known site has been identified in the study area, the general setting of the project is similar to the conditions that many archaeological sites in West Virginia have been found in. The project is close to several major drainages including Mill Creek and Patterson Creek just to the west in Mineral County. Much of the project is confined to floodplain and terrace settings, making the likelihood of finding prehistoric artifacts high. However, the majority of the project runs adjacent to existing roads, so disturbance could explain the lack of prehistoric material. Historic materials could be present due to several structures being indicated on historic and modern topographic maps adjacent to the project.

Fieldwork Results

The fieldwork was conducted between November 9-11, 2023 (Figures 7-36). The weather was cloudy with occasional rain showers with high temperatures around 60° F. The fieldwork involved shovel tests and visual inspection. These investigations did not result in the identification of any archaeological sites.

Project Description

The proposed project involves the installation of sections of water line in the southwestern portion of Hampshire County, West Virginia. This includes the installation of approximately 45,000 linear feet of water line. The depth of disturbance is between 36 and 48 inches and surface disturbances will be a maximum of 10 feet wide, 5.0 feet on either side of the waterline, during construction. The project includes installation along

Russeldale Road, Rada Road, Bridge Hollow, Chickadee Road, Rilla Smith Road, Hidden Springs Road, Huffman Road, McCool Road, Stringtown Road, Mud Run, and Rt. 220. The total limit of disturbance (LOD) is approximately 4.16 hectares (ha) (10.33 acres [ac]). The project area is situated in a rural setting dotted with farms. For the most part the project runs along existing roads on stream valley floors as well as moderate to steep slopes and bench landforms.

Fieldwork began within the northern portion of the project area on Russeldale Road (Figure 12). Shovel testing was conducted in a grassy area until steeply sloped conditions were observed (Figures 12 and 26-27). Shovel testing was resumed in a relatively flat area until the project crosses Chickadee Road. Beyond Chickadee Road, disturbance was identified in the form of grading and buried utilities (Figures 13 and 28-29). As the project moved to the northeast a small portion of the project was situated on steep slope before the topography leveled out and shovel testing was resumed (Figures 14 and 30.) The project crosses Russeldale Road to the northwest where steeply sloped conditions were observed. Shovel testing was resumed in an open grassy area to the northeast (Figures 14-15 and 31-32). Steep slope was identified to the northeast of this area from Rada Road to Purgitsville Pike/Rt. 220 (Figures 15-16 and 33-37).

The second segment of the project is located to the east of Purgitsville Pike/ Rt. 220 (Figure 16). Steeply sloped conditions were identified in the first portion of this segment (Figures 16-17 and 38-39). Shovel testing was resumed to the northeast in a relatively flat pasture setting until the terminus of the segment (Figures 17 and 40).

Fieldwork began on the third segment of the project near the intersection of Purgitsville Pike and Rilla Smith Road (Figure 18). Shovel testing was conducted along Rilla Smith Road until steeply sloped conditions were identified (Figures 18 and 41-42). The eastern terminus was found to be disturbed by an existing road (Figures 18 and 43).

Visual inspection indicated that the beginning of the fourth portion of the project area, adjacent to RG Burns Drive, was within steeply sloped settings (Figures 19 and 44). These conditions were evident as the project continued on Mud Run Road (Figures 19 and 45-47). The project diverts to the north along Hidden Springs Lane where shovel testing was performed until steeply sloped conditions were observed (Figures 19 and 48-49). These conditions continued to be observed along Mud Run Road to the east (Figures 20 and 50). Shovel testing was resumed in a grassy setting to the east until steep slope was observed (Figures 20 and 51). Disturbance to the east was identified in the form of a ditch along the south side of Mud Run Road. Shovel testing was resumed as the project moved further away from Mud Run Road in a grassy pasture setting until steep sloped was observed again (Figures 21 and 52). There is another small segment of the project area to the northeast that was observed as being all steep slope as well (Figures 21 and 53-54).

The next segment of the project is located west of Purgitsville Pike along Bridge Hollow (Figure 22). This area was found to be disturbed from a road and ditch within the western portion and on steep slope within the eastern portion (Figures 22 and 55-56).

Fieldwork began on the final segment of the project adjacent to McCool Road (Figure 23). Steeply sloped conditions were identified as the project moved south until a small portion of the project was found to be flat and shovel tested (Figures 23 and 57-58). After shovel testing this small area, the remainder of the project area was found to be either disturbed from a ditch/ road or located within steeply sloped conditions (Figures 24-25 and 59-62).

A total of 193 shovel tests were excavated within the project area. 15 of these were found to contain disturbed soils. Disturbed shovel tests typically displayed a profile of fill soils overlying a B horizon of yellow (10YR7/8) sandy clay with manganese staining (Figure 63). These fill layers ranged in depth from 8 cm to 33 cm, with an average depth of 20 cm. Shovel tests with intact soils typically displayed a profile of a 0-24 centimeter grayish brown (10YR5/2) channery loam Ap (plowzone) horizon over a strong brown (7.5YR5/8) silt loam B horizon (Figure 64). The depth of the Ap horizon ranged from 13 cm to 27 cm, with a depth of 21 cm. These investigations did not result in the identification of any archaeological sites or buried cultural horizons.

APE Definition and NRHP Determination

The APE is a term that must be applied on an individual project basis. The nature of the project or undertaking is considered in determining the APE. This may include areas that are off the property or outside of the actual project's boundaries to account for possible visual impacts. When construction is limited to underground activity, the APE may be contained within the footprint of the project area. The APE for this project includes the footprint of the project and a limited area surrounding it as this document is pertinent to the archaeological component of the cultural resource's investigation.

There were no new archaeological sites identified during the field reconnaissance for this project. The archaeological APE for this project is considered to be the footprint of the development. The undertaking is considered to have no effect on historic properties or landmarks.

Recommendations

In November of 2023, Weller & Associates, Inc. conducted a Phase I Archaeological Survey for the proposed Central Hampshire Public Service District-Purgitsville Phase III Water Project in Hampshire County, West Virginia. Fieldwork for this investigation included visual inspection and the excavation of shovel tests. As a result of this survey no previously undocumented sites were identified. Therefore, it is Weller's opinion that the proposed project will have no effect on archaeological resources that are eligible for inclusion on the NRHP. No further work is deemed necessary for this project.

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2009 *Phase I Cultural Resources Management Survey for the Proposed Purgitsville Wireless Cellular Tower in Hampshire County, West Virginia*. Weller & Associates, Inc. Copy available for review at the West Virginia Department of Culture and History, Charleston.

Figures

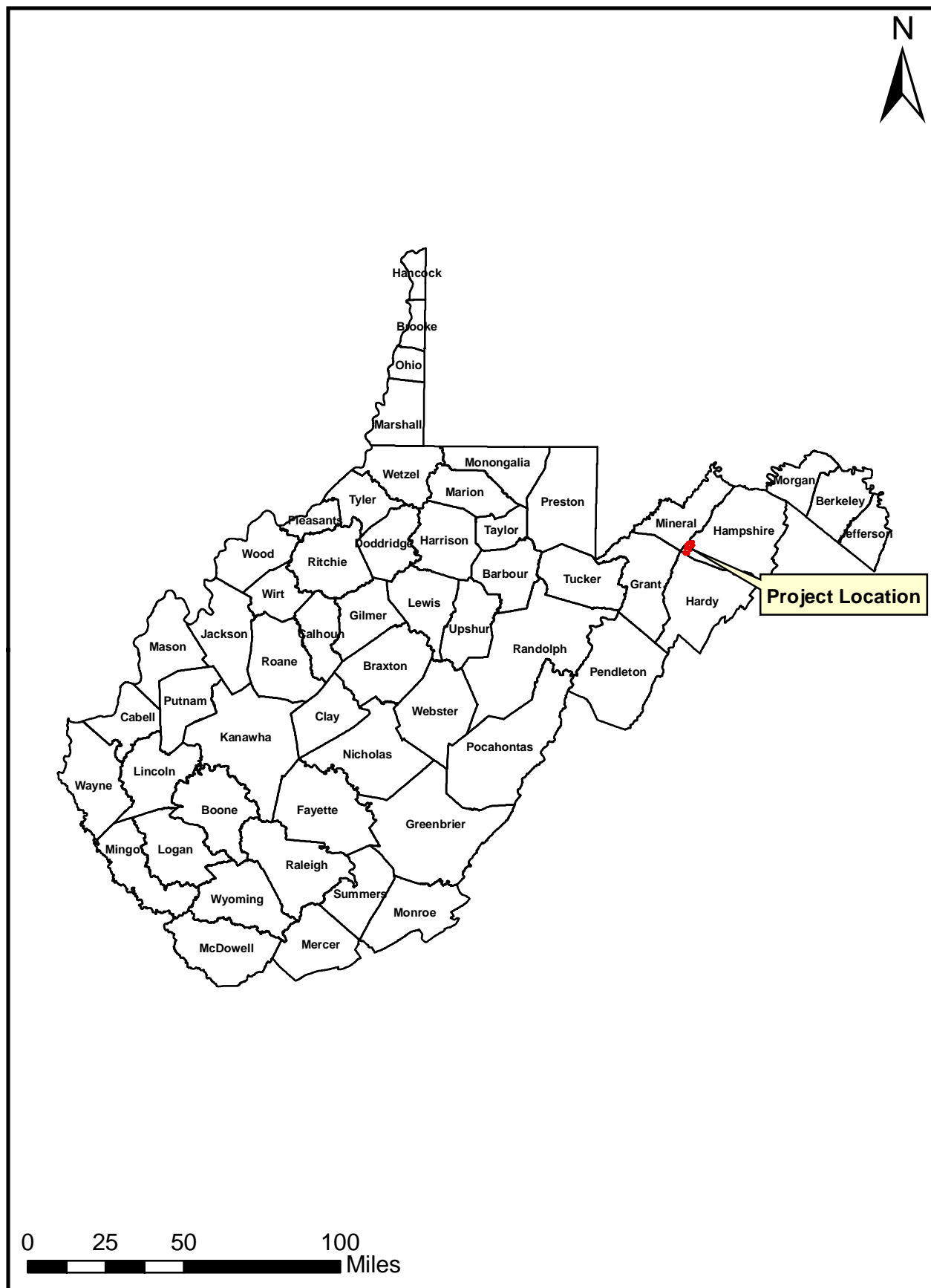


Figure 1. Map of West Virginia showing county boundaries and the project area.

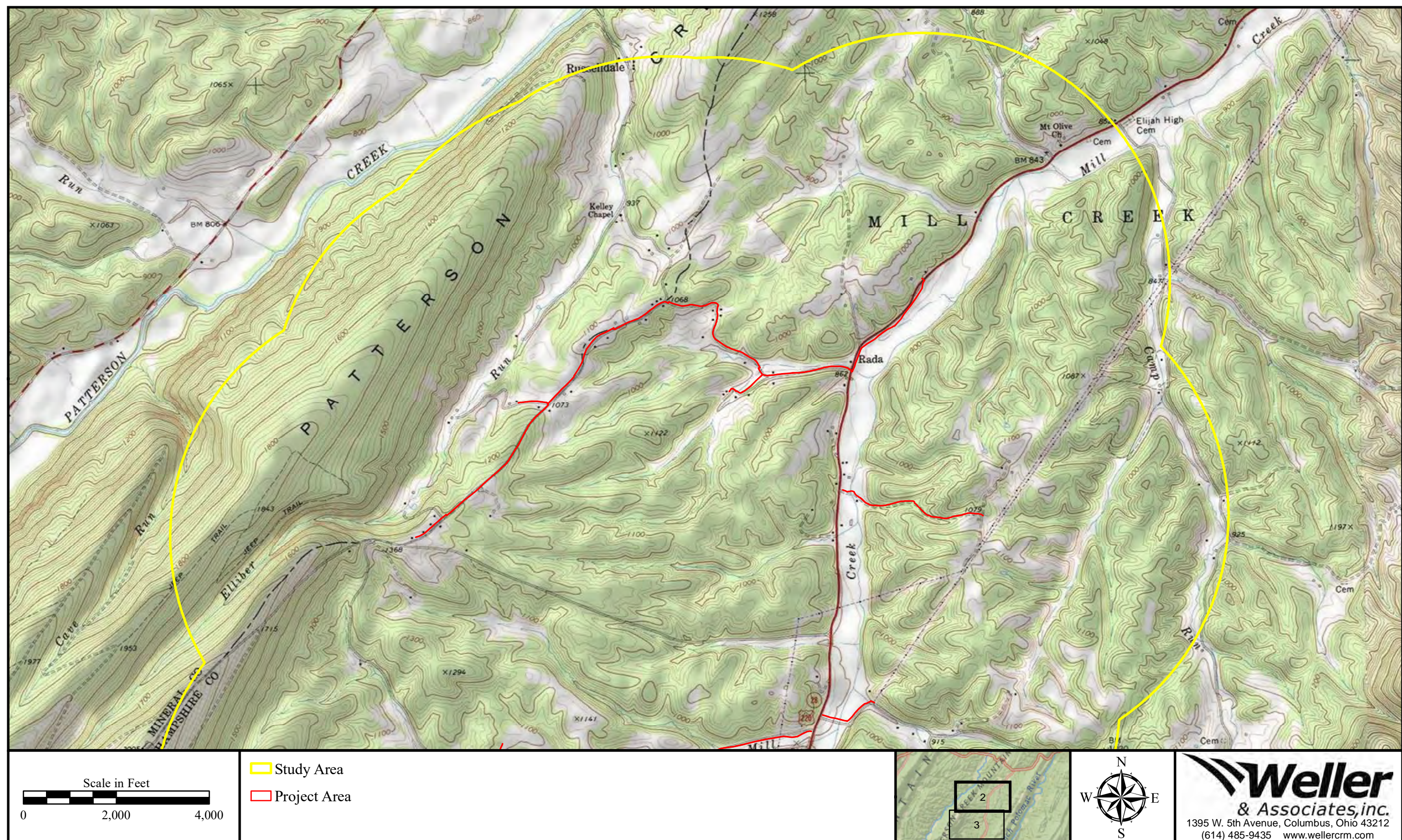


Figure 2. Portion of the USGS 1975 *Burlington, West Virginia 7.5 Minute Series (Topographic)* map indicating the location of the project and study area.

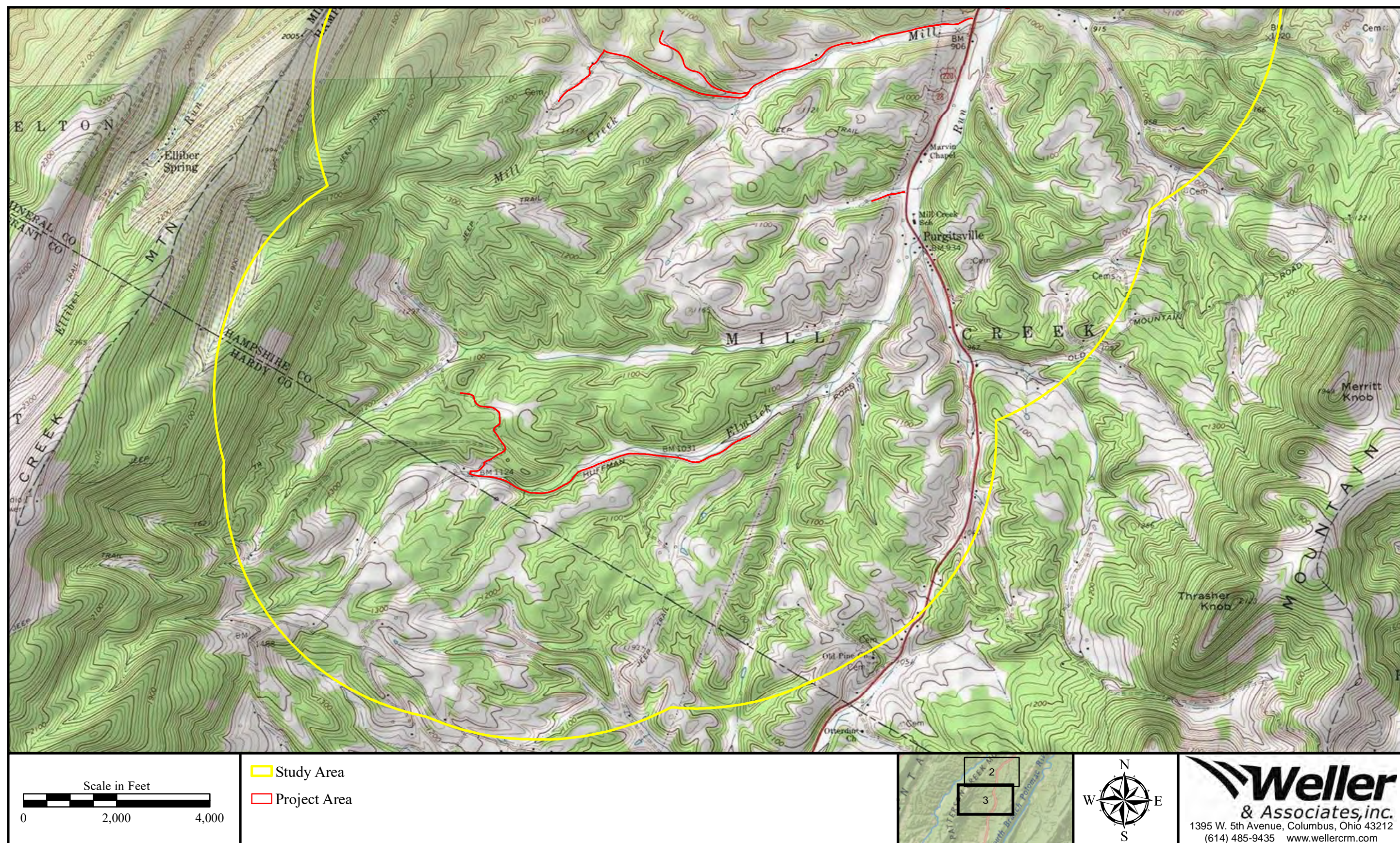


Figure 3. Portions of the USGS 1975 *Burlington* and 1973 *Old Fields*, West Virginia 7.5 Minute Series (*Topographic*) maps indicating the location of the project and study area.

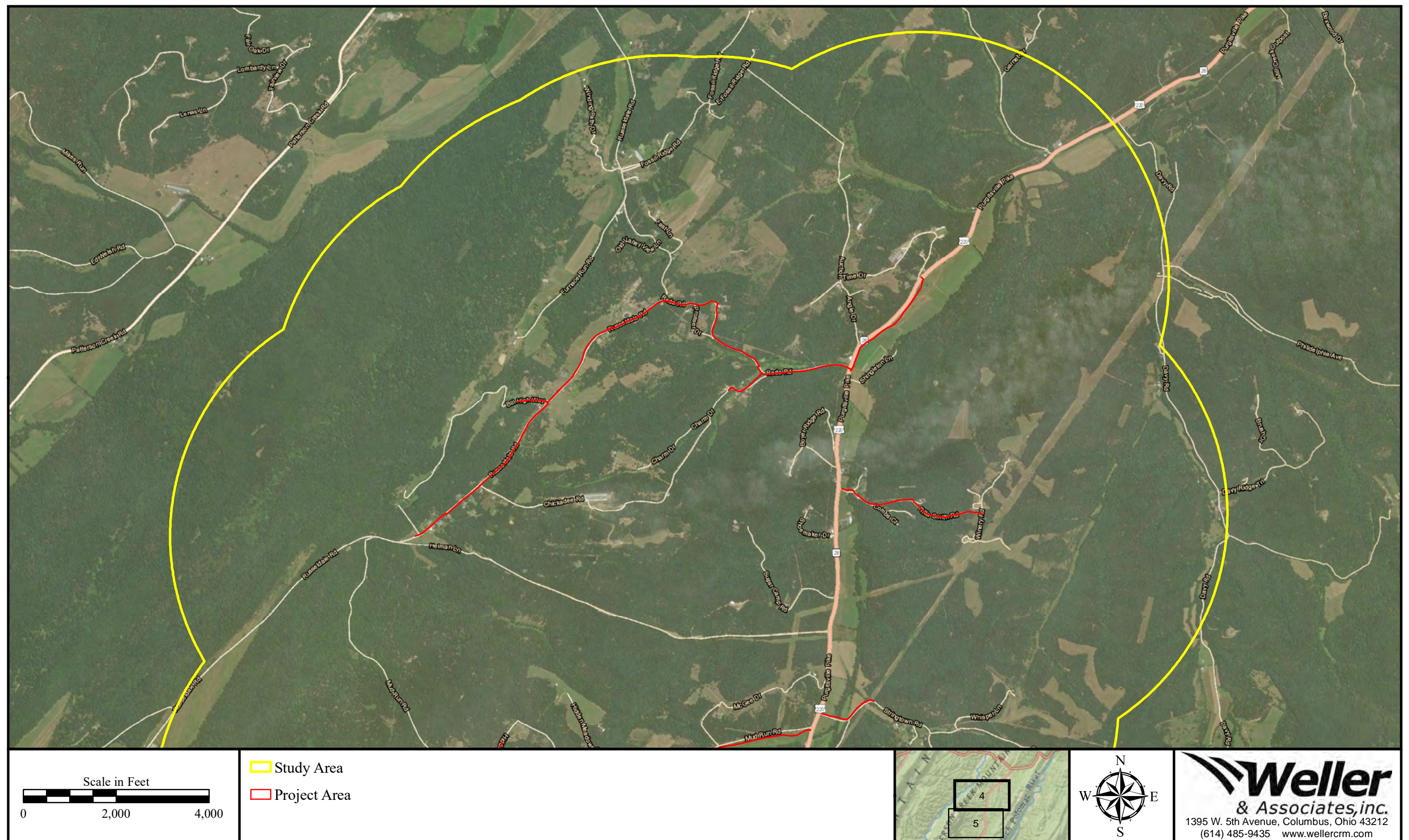


Figure 4. Aerial map indicating the location of the project and study area.

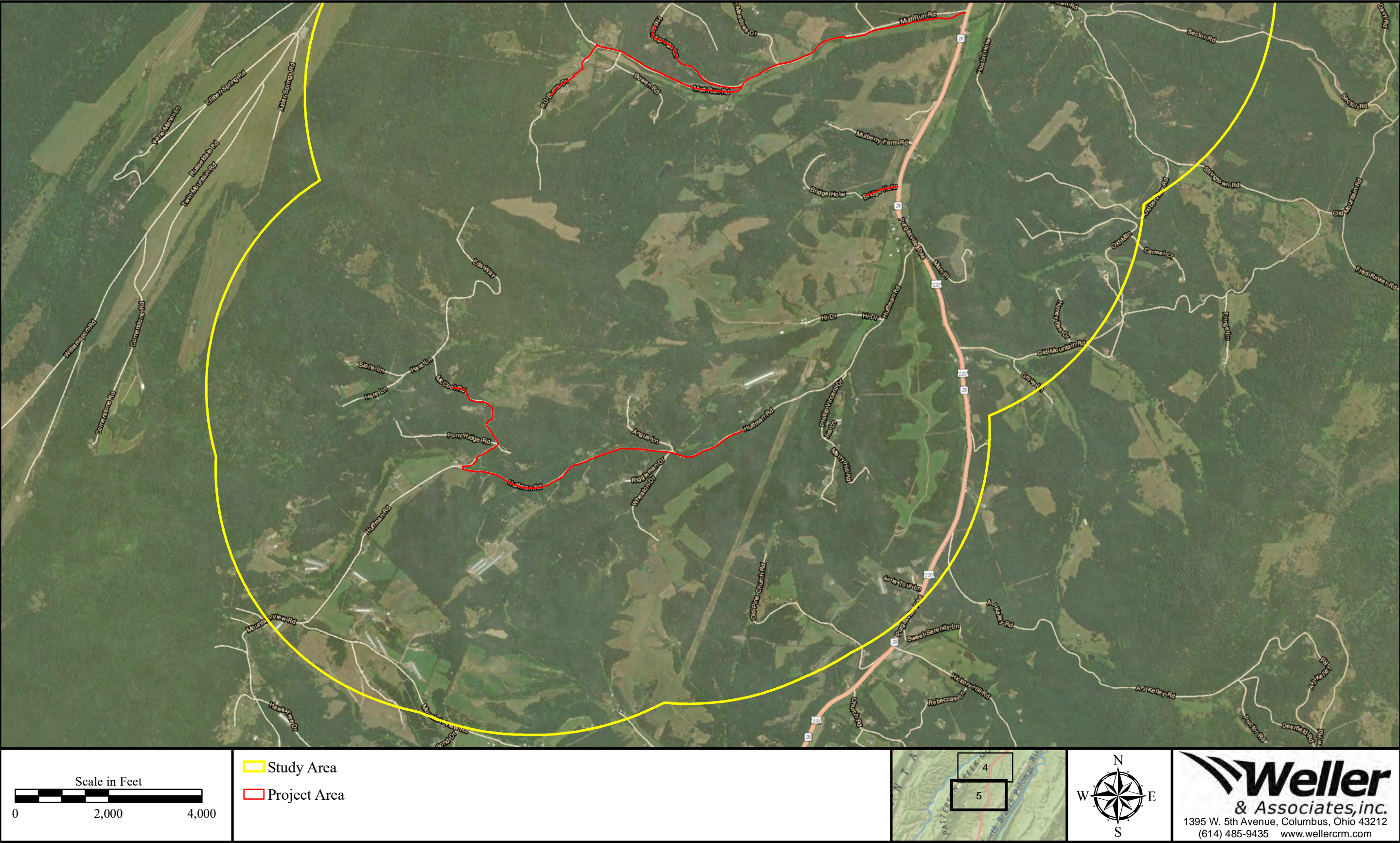
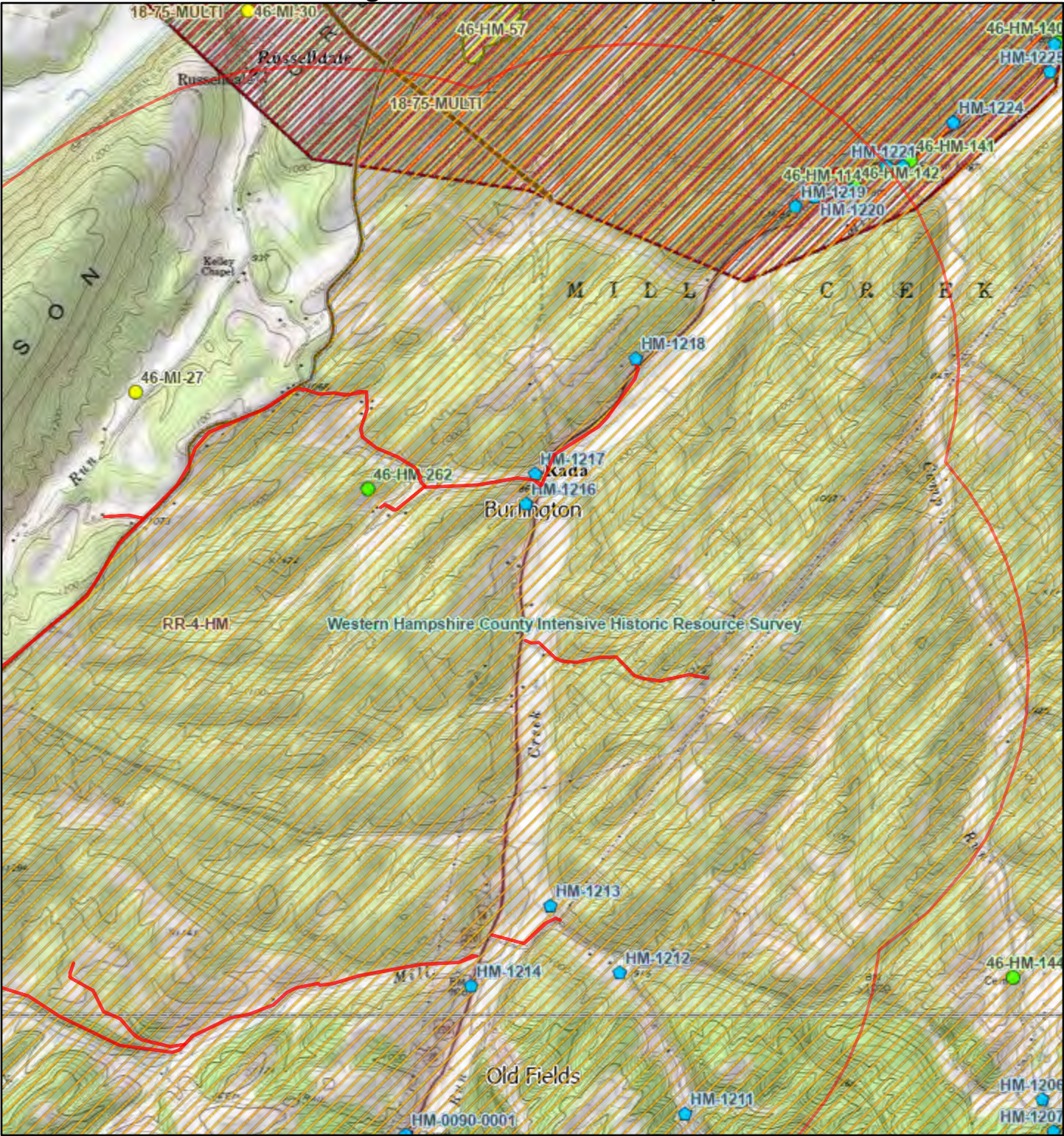


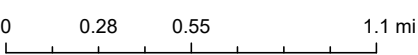
Figure 5. Aerial map indicating the location of the project and study area.

Figure 6. WV SHPO Map.



November 14, 2023

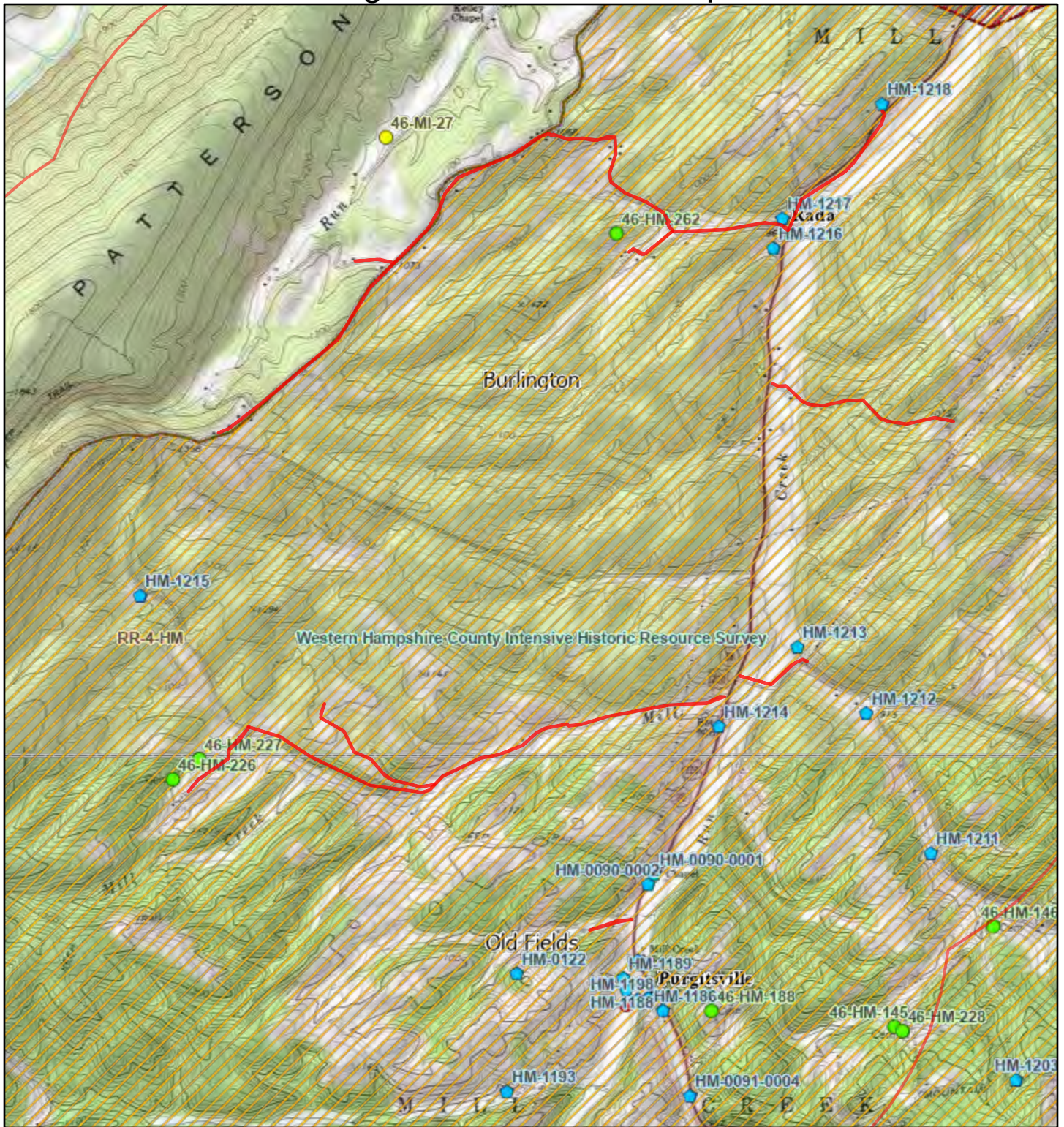
1:36,112



- | | |
|-------------------------------------|--------------------------------------|
| Architecture Survey - Area | Cemeteries - Point |
| Cemeteries - Area | Civil War Sites |
| Civil War Battlefields | Restricted National Register - Point |
| Restricted National Register - Area | Condition |
| Condition | Demolished |
| Demolished | Active |
| Active | Architecture Sites - Point |
| Architecture Sites - Area | Condition |
| Condition | Demolished |
| Demolished | Active |
| Active | Archaeology Survey - Point |
| Archaeology Survey - Area | Archaeology Sites - Point |
| Archaeology Sites - Area | |

Notes:

Figure 7. WV SHPO Map.



November 14, 2023

1:36,112

0 0.28 0.55 1.1 mi

- Legend:**

 - Architecture Survey - Area (Green diagonal lines)
 - Cemeteries - Area (Blue diagonal lines)
 - Civil War Battlefields (Red diagonal lines)
 - Cemeteries - Point (Green dot)
 - Civil War Sites (Red dot)
 - Restricted National Register - Point**
 - Condition
 - Demolished (Grey pentagon)
 - Active (Purple pentagon)
 - Architecture Sites - Point**
 - Condition
 - Demolished (Grey hexagon)
 - Active (Blue hexagon)
 - Archaeology Survey - Area (Orange diagonal lines)
 - Archaeology Sites - Area (Yellow diagonal lines)
 - Archaeology Survey - Point (Orange dot)
 - Archaeology Sites - Point (Yellow dot)

Notes:

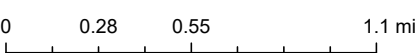
WVGISTC, WVSHPO

Figure 8. WV SHPO Map.



November 14, 2023

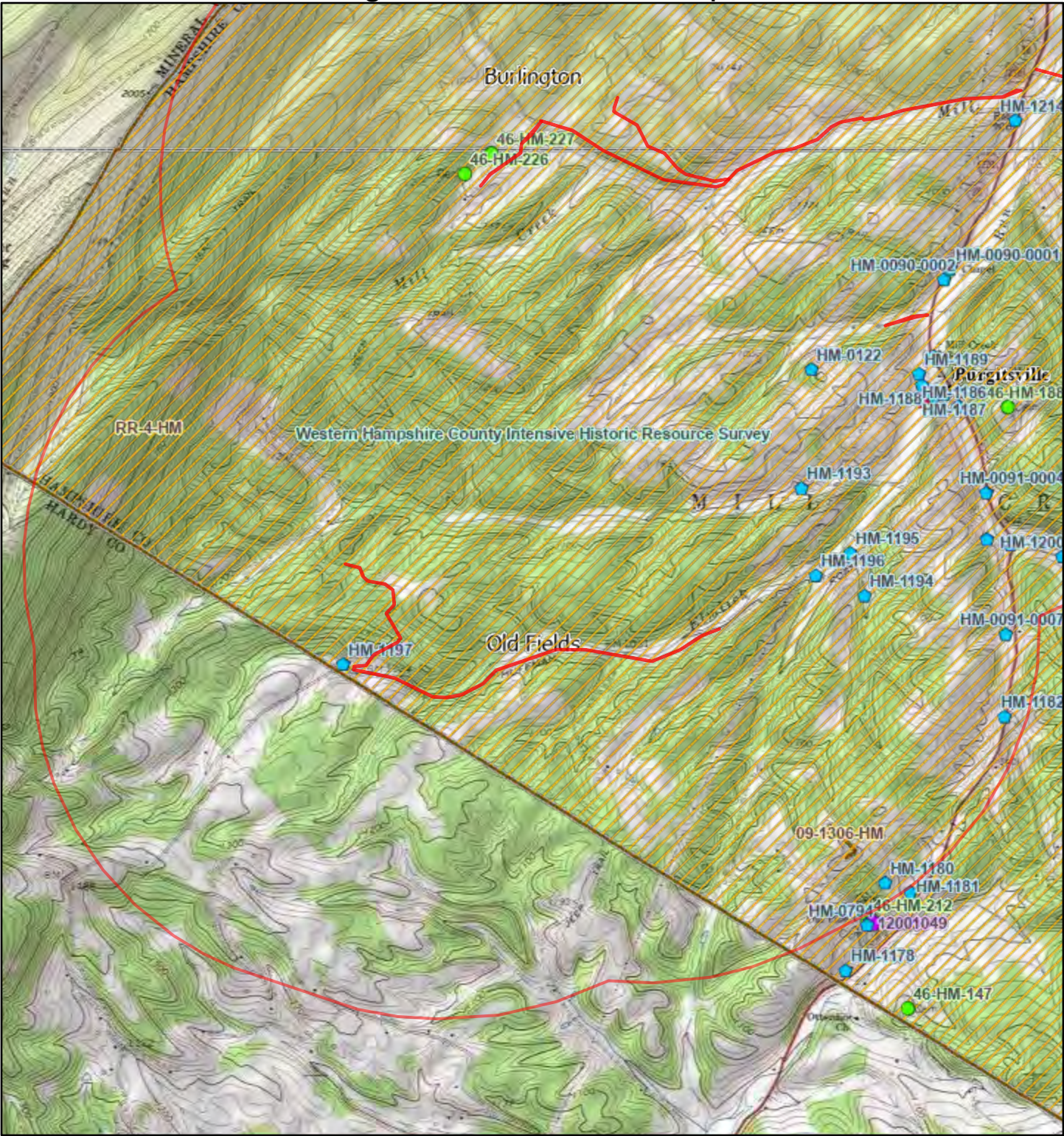
1:36,112



- | | |
|-------------------------------------|--------------------------------------|
| Architecture Survey - Area | Cemeteries - Point |
| Cemeteries - Area | Civil War Sites |
| Civil War Battlefields | Restricted National Register - Point |
| Restricted National Register - Area | Demolished |
| Condition | Active |
| Demolished | Architecture Sites - Point |
| Active | Condition |
| Architecture Sites - Area | Demolished |
| Condition | Active |
| Demolished | Archaeology Survey - Point |
| Active | Archaeology Sites - Point |
| Archaeology Survey - Area | |
| Archaeology Sites - Area | |

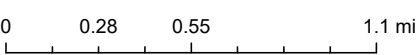
Notes:

Figure 9. WV SHPO Map.



November 14, 2023

1:36,112



- | | |
|-------------------------------------|--------------------------------------|
| Architecture Survey - Area | Cemeteries - Point |
| Cemeteries - Area | Civil War Sites |
| Civil War Battlefields | Restricted National Register - Point |
| Restricted National Register - Area | Demolished |
| Condition | Active |
| Demolished | Architecture Sites - Point |
| Active | Condition |
| Architecture Sites - Area | Demolished |
| Condition | Active |
| Demolished | Archaeology Survey - Point |
| Active | Archaeology Sites - Point |
| Archaeology Survey - Area | |
| Archaeology Sites - Area | |

Notes:

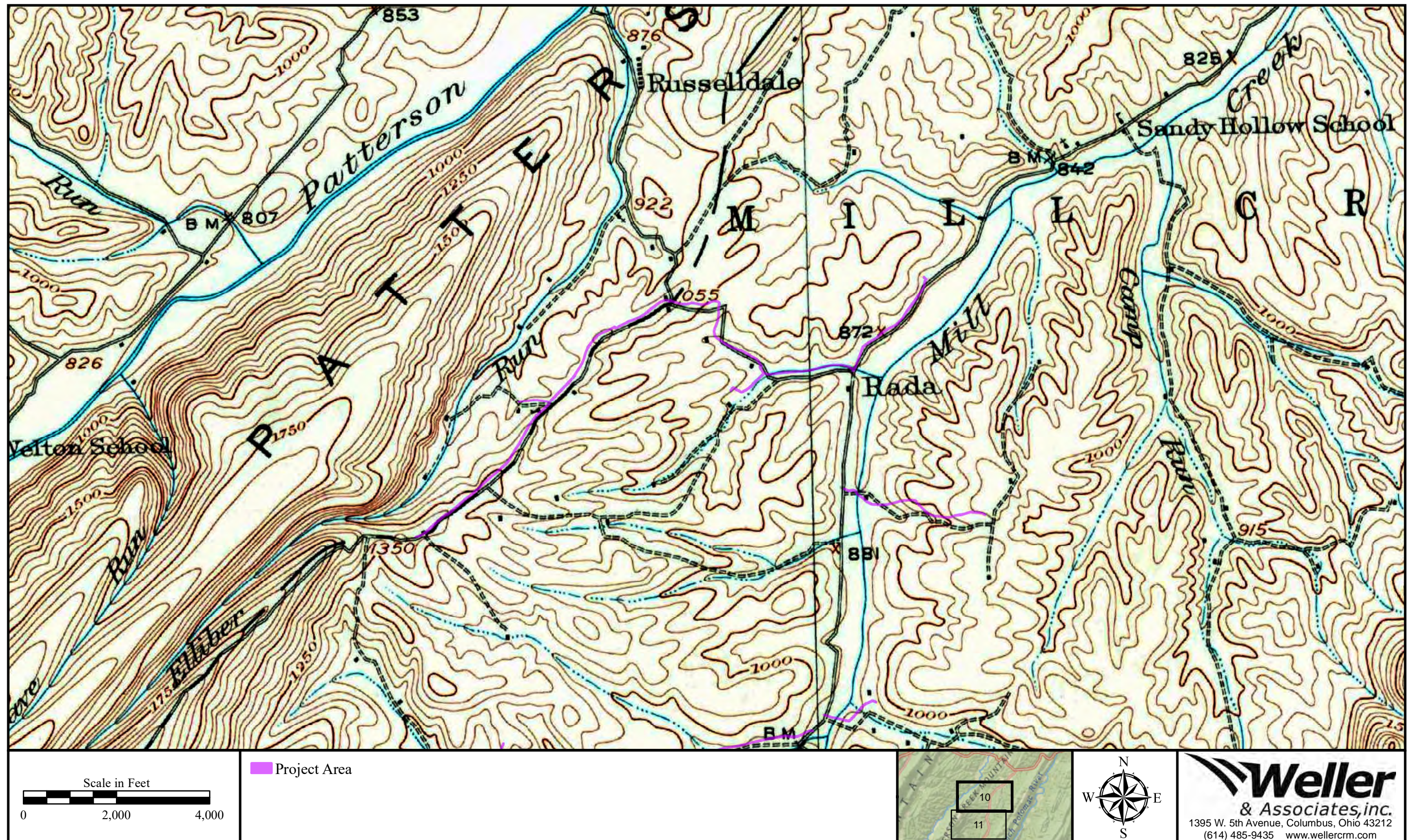


Figure 10. Portion of the USGS 1920 Keyser, West Virginia 15 Minute Series (Topographic) map indicating the approximate location of the project.

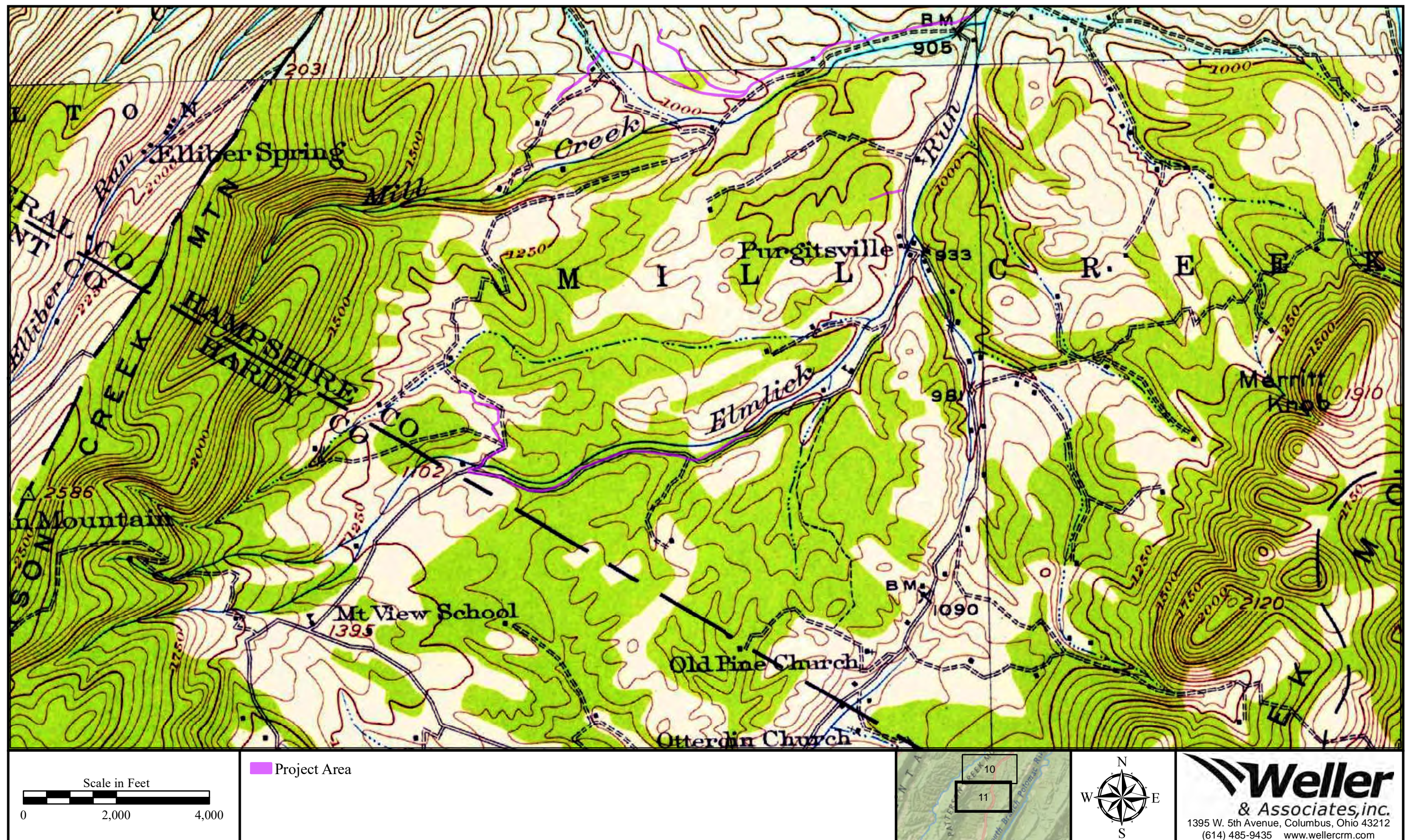


Figure 11. Portions of the USGS 1920 Moorefield and 1920 Keyser, West Virginia 15 Minute Series (Topographic) maps indicating the approximate location of the project.

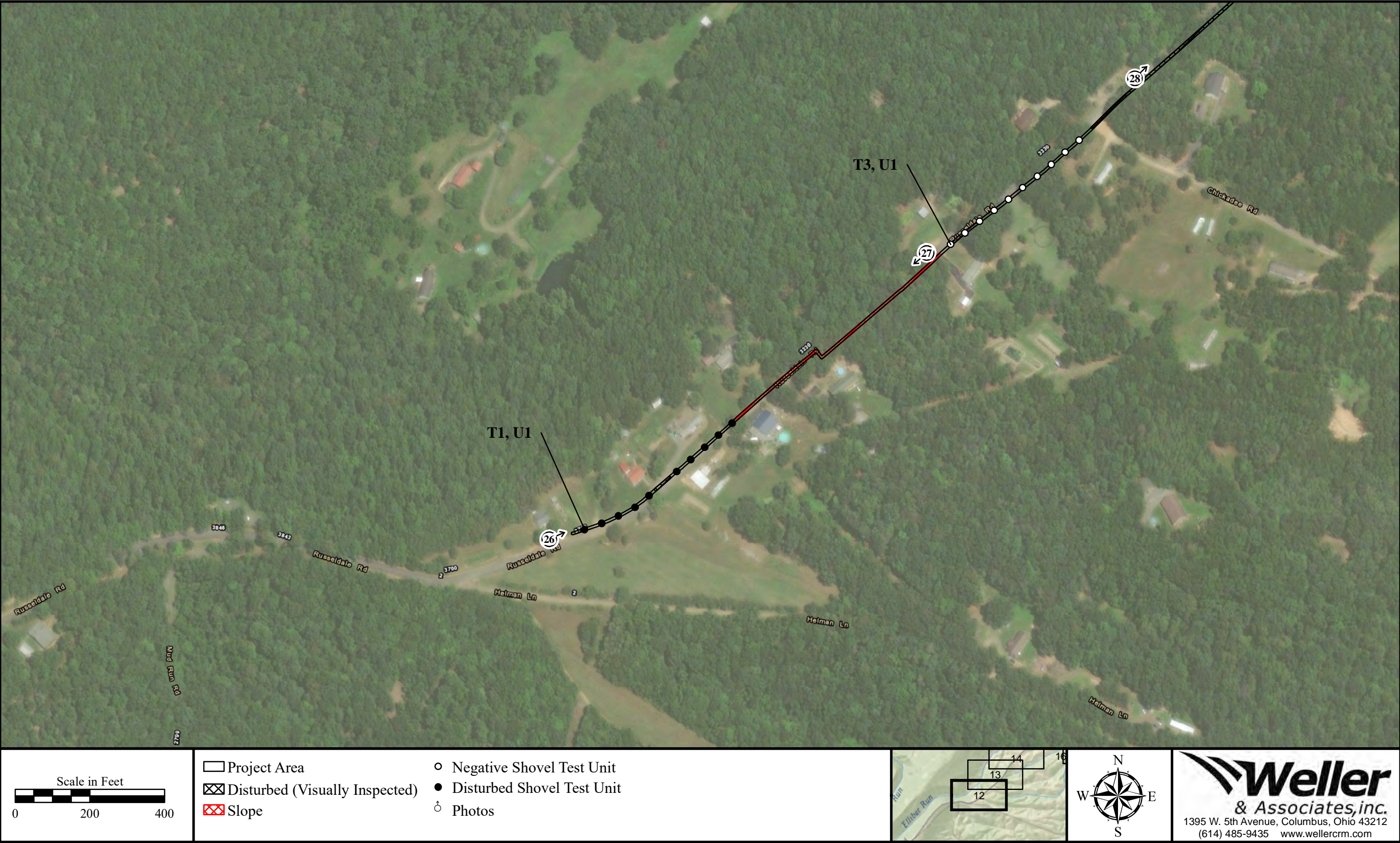


Figure 12. Fieldwork results and photo orientation map.

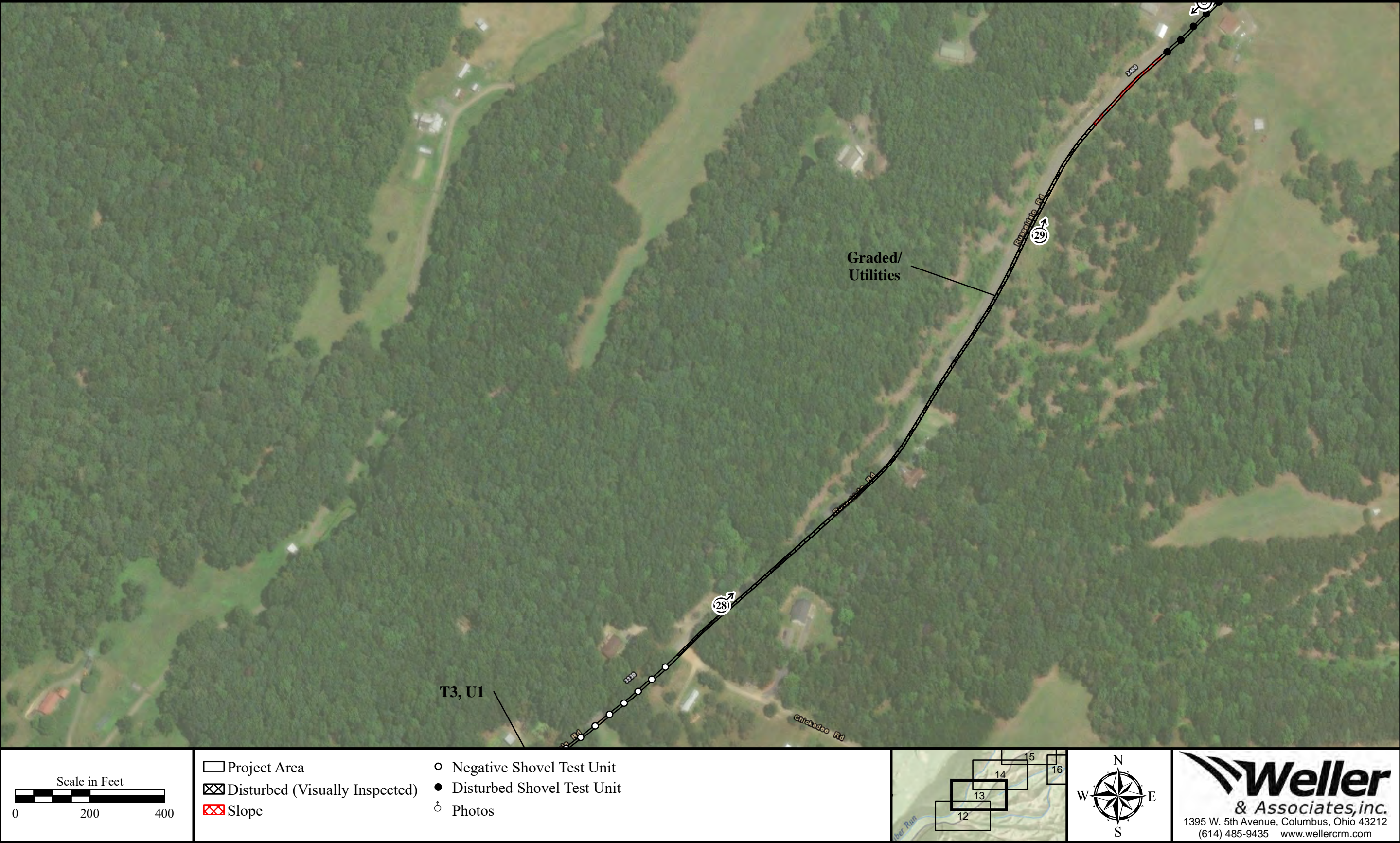


Figure 13. Fieldwork results and photo orientation map.

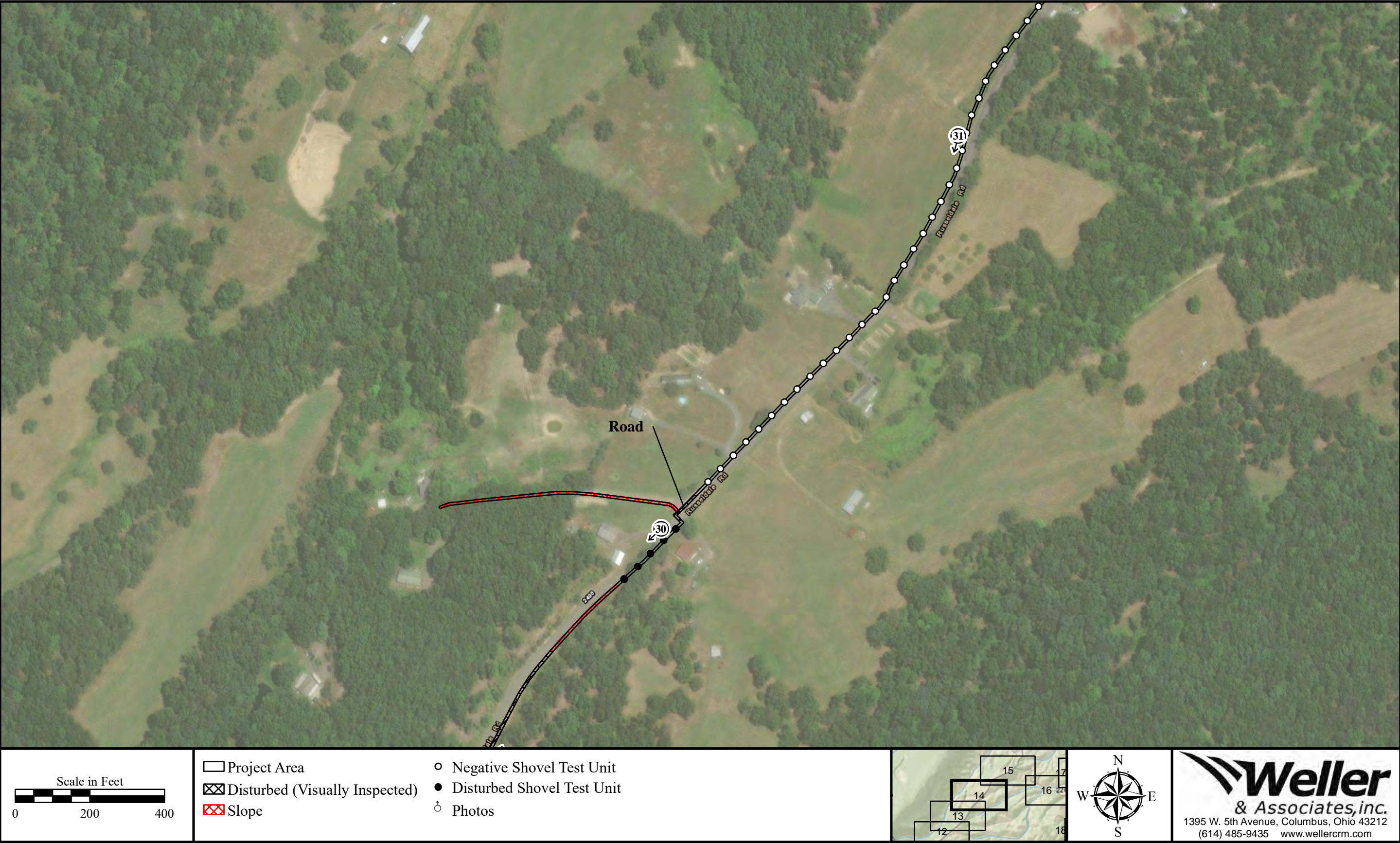


Figure 14. Fieldwork results and photo orientation map.

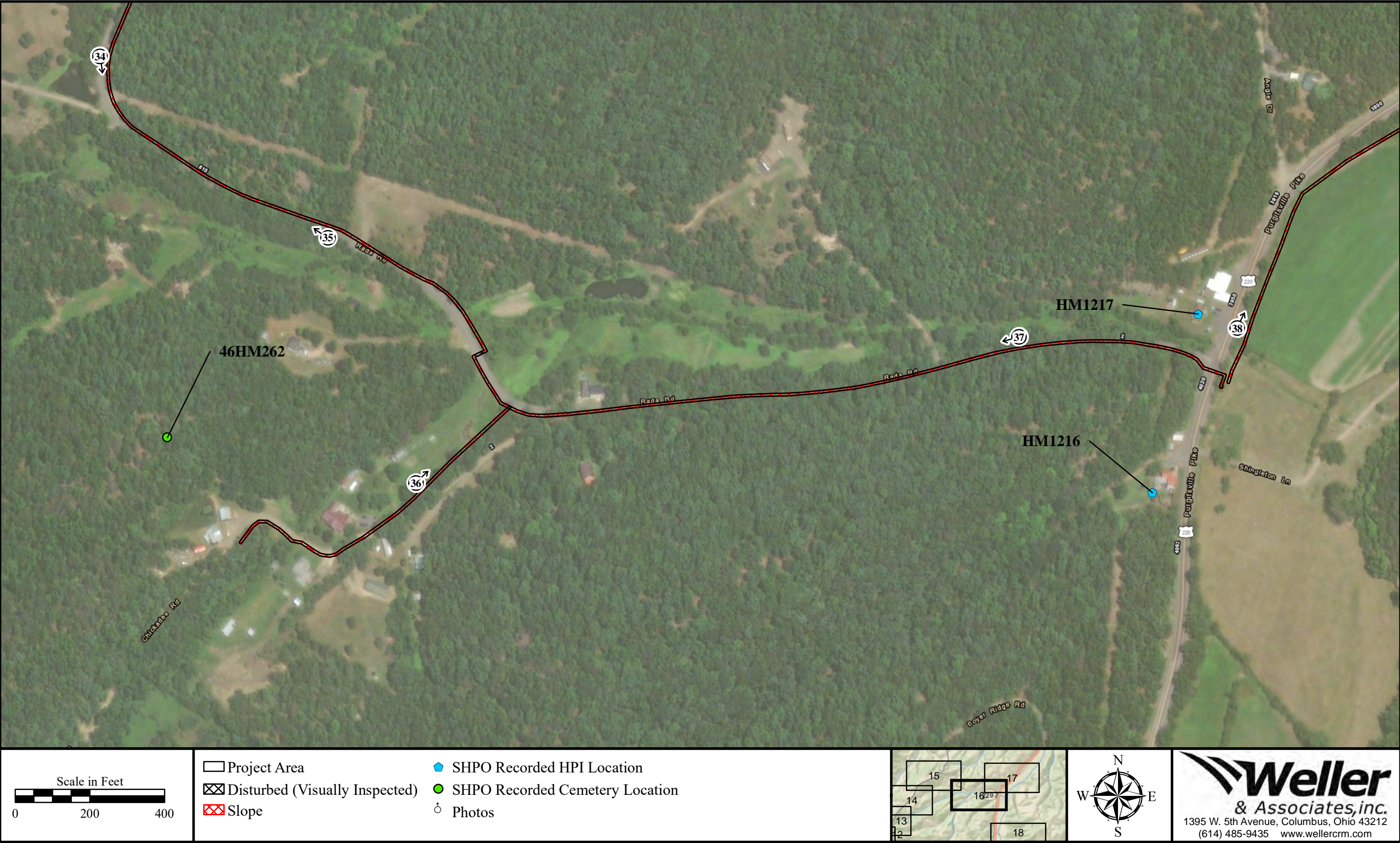


Figure 16. Fieldwork results and photo orientation map.

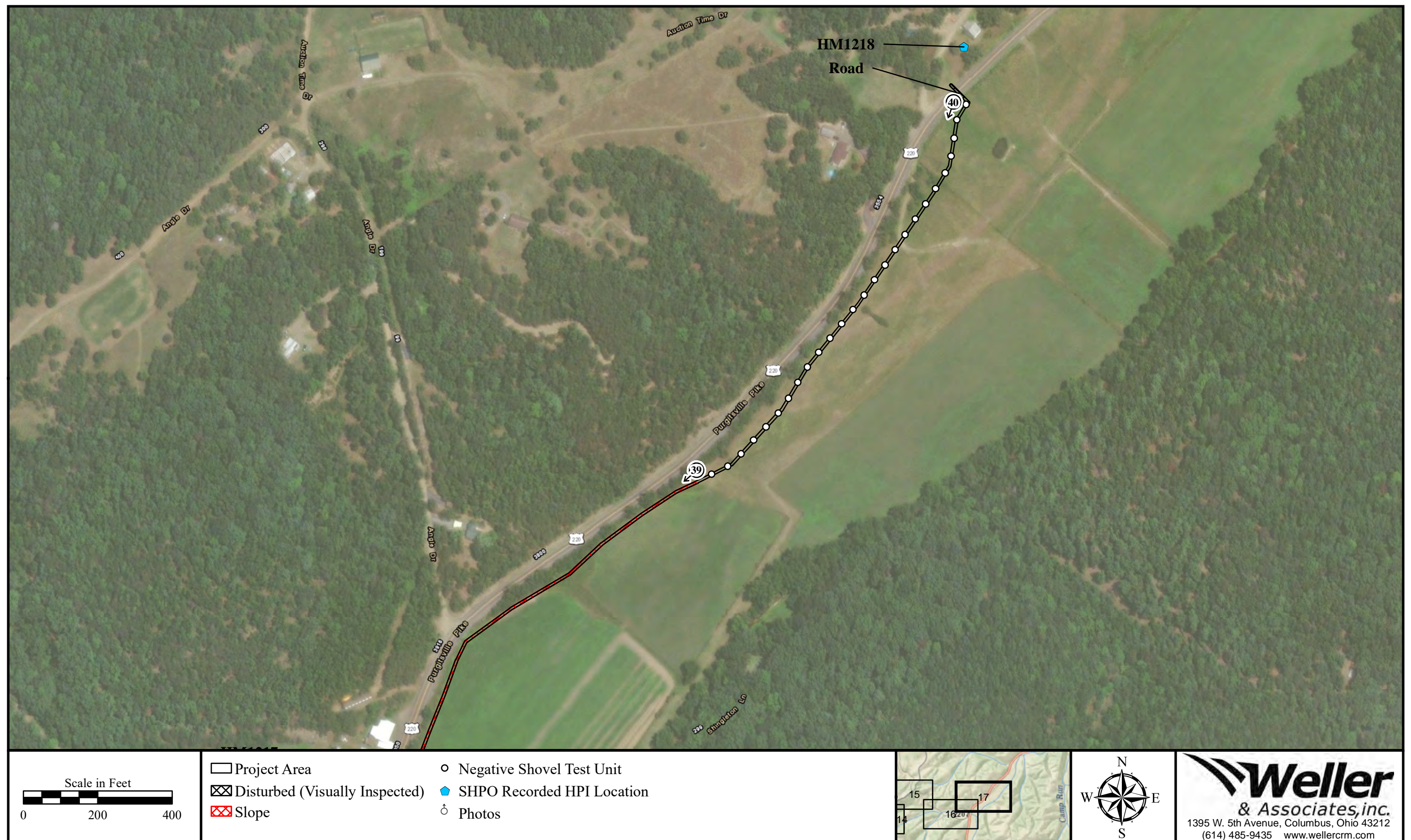


Figure 17. Fieldwork results and photo orientation map.



Figure 18. Fieldwork results and photo orientation map.

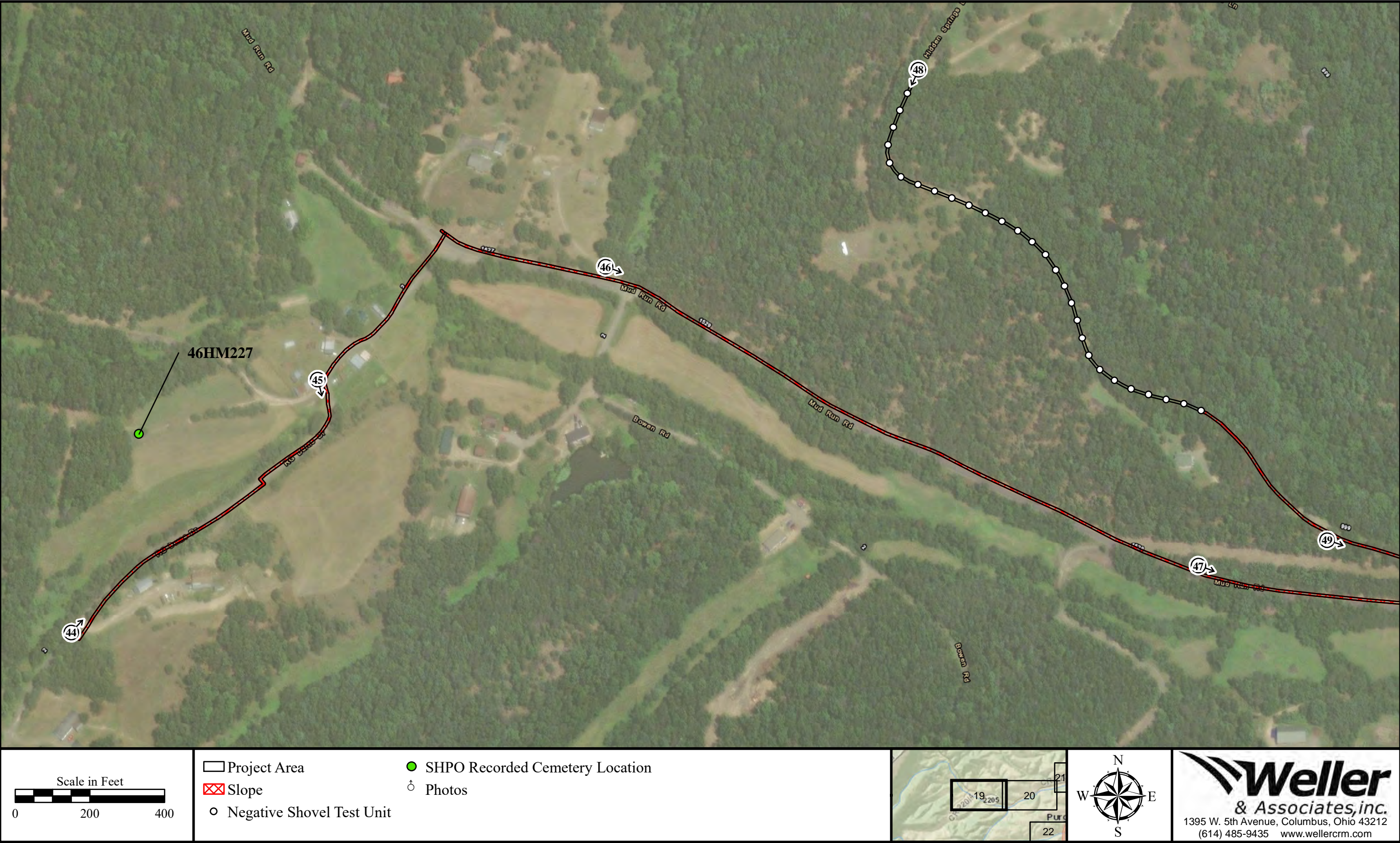


Figure 19. Fieldwork results and photo orientation map.

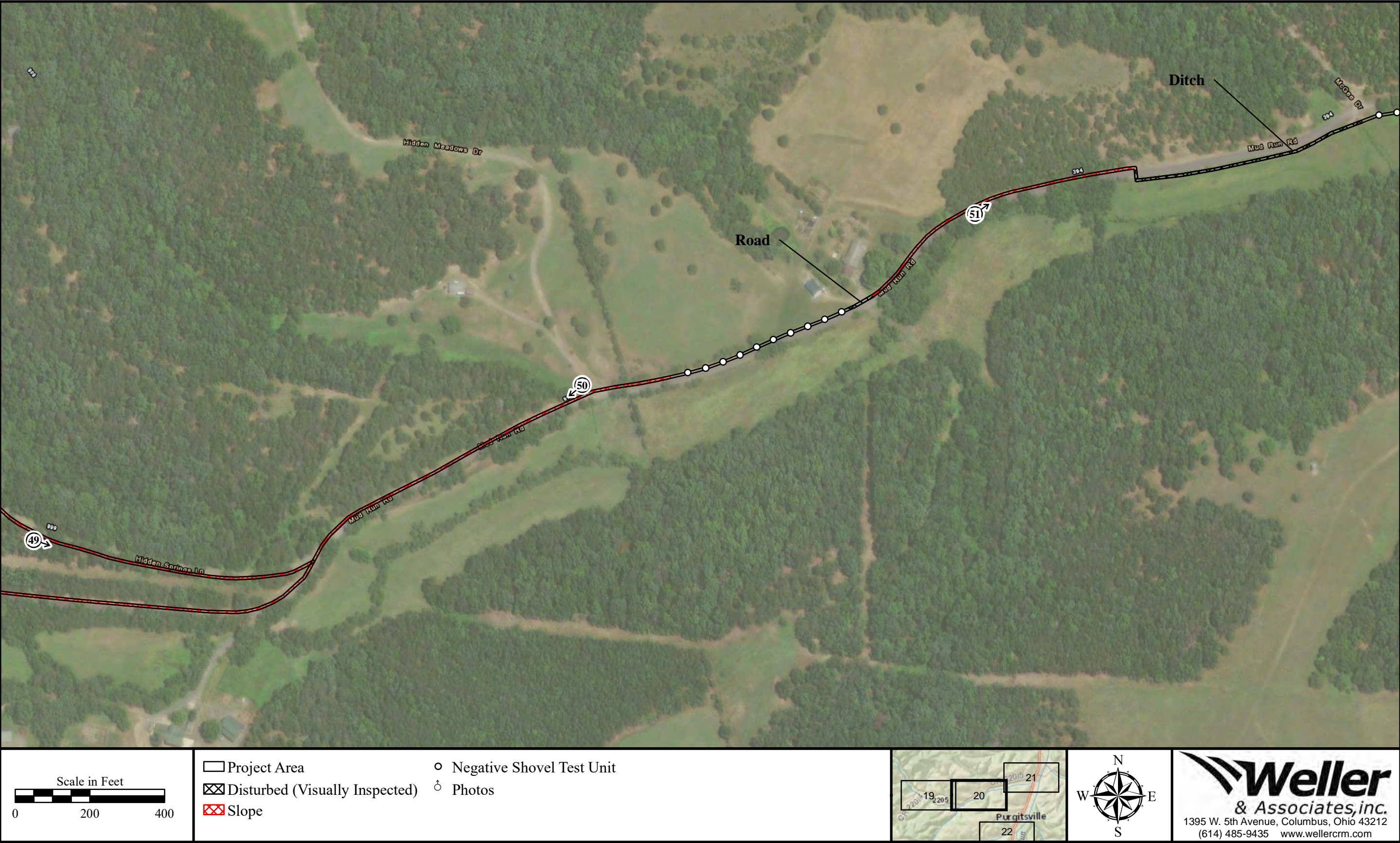


Figure 20. Fieldwork results and photo orientation map.

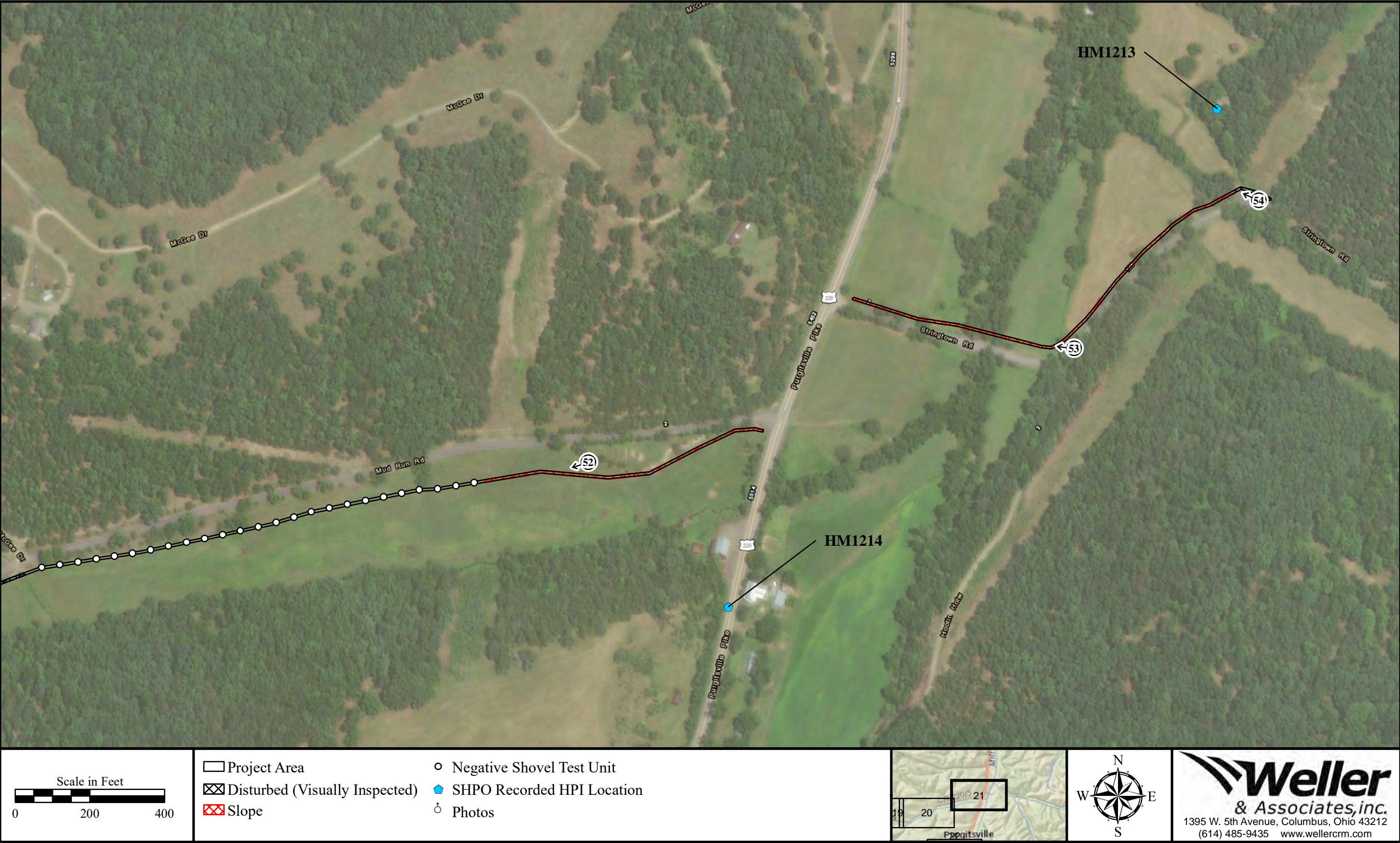


Figure 21. Fieldwork results and photo orientation map.

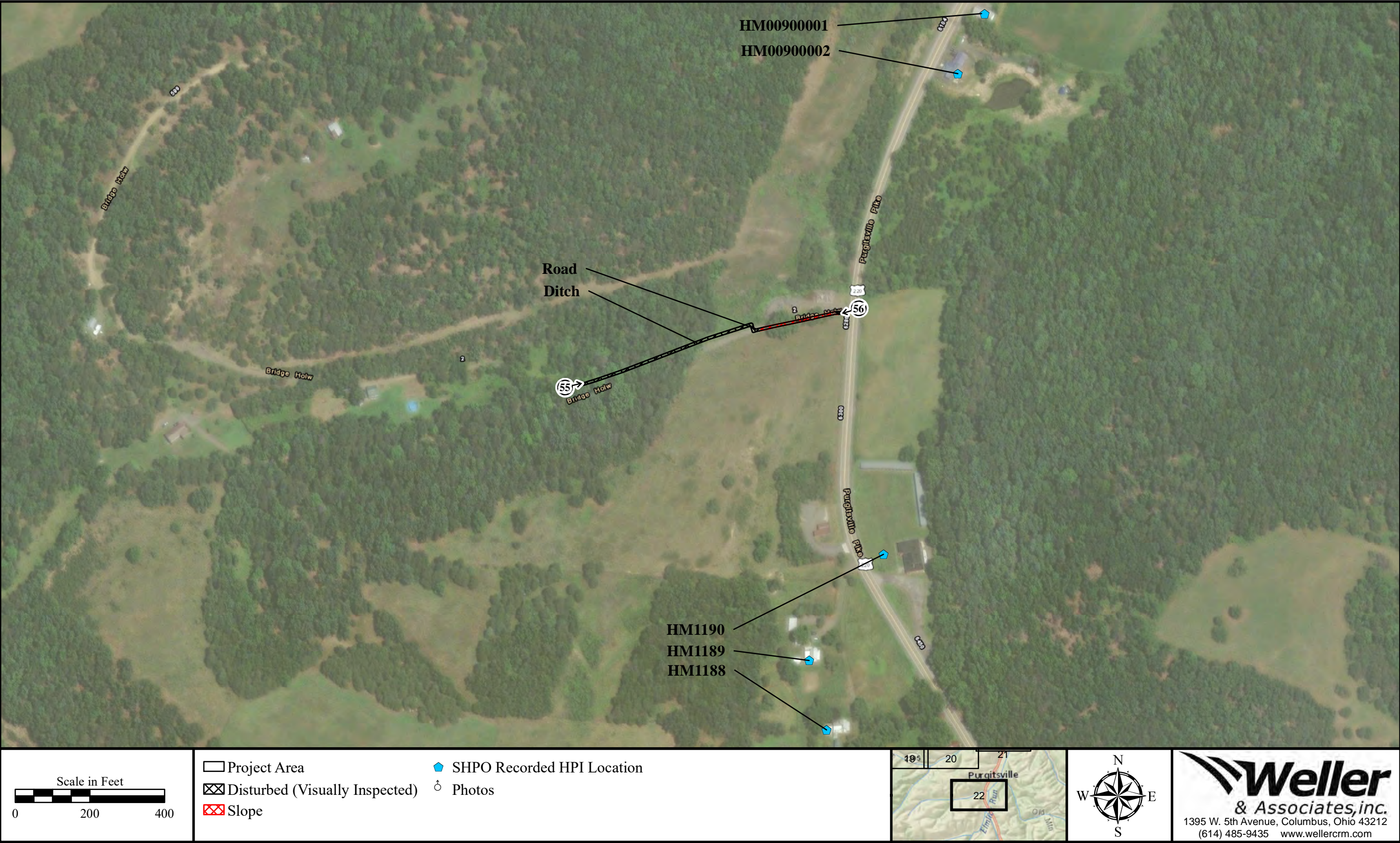


Figure 22. Fieldwork results and photo orientation map.



Figure 23. Fieldwork results and photo orientation map.

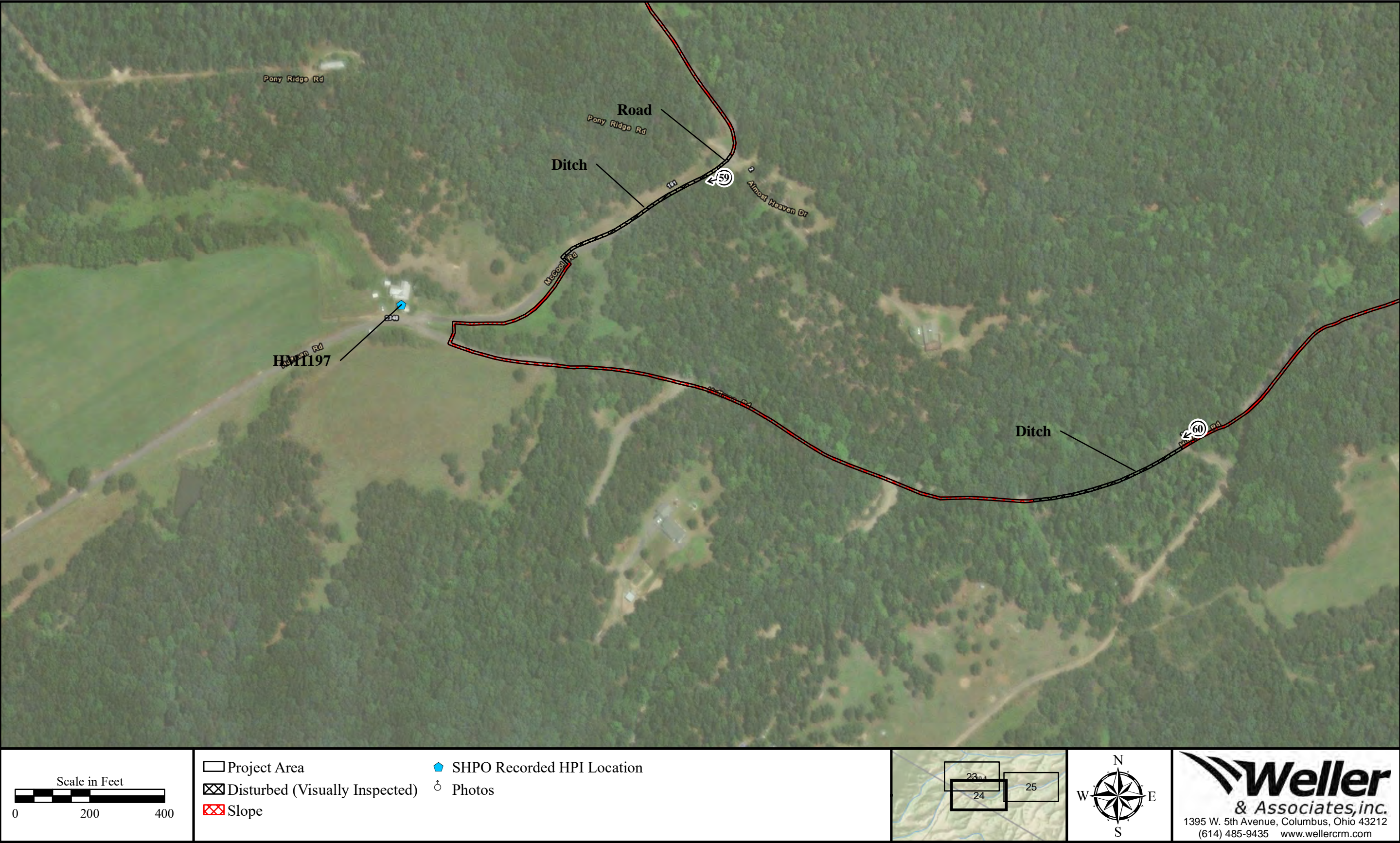


Figure 24. Fieldwork results and photo orientation map.

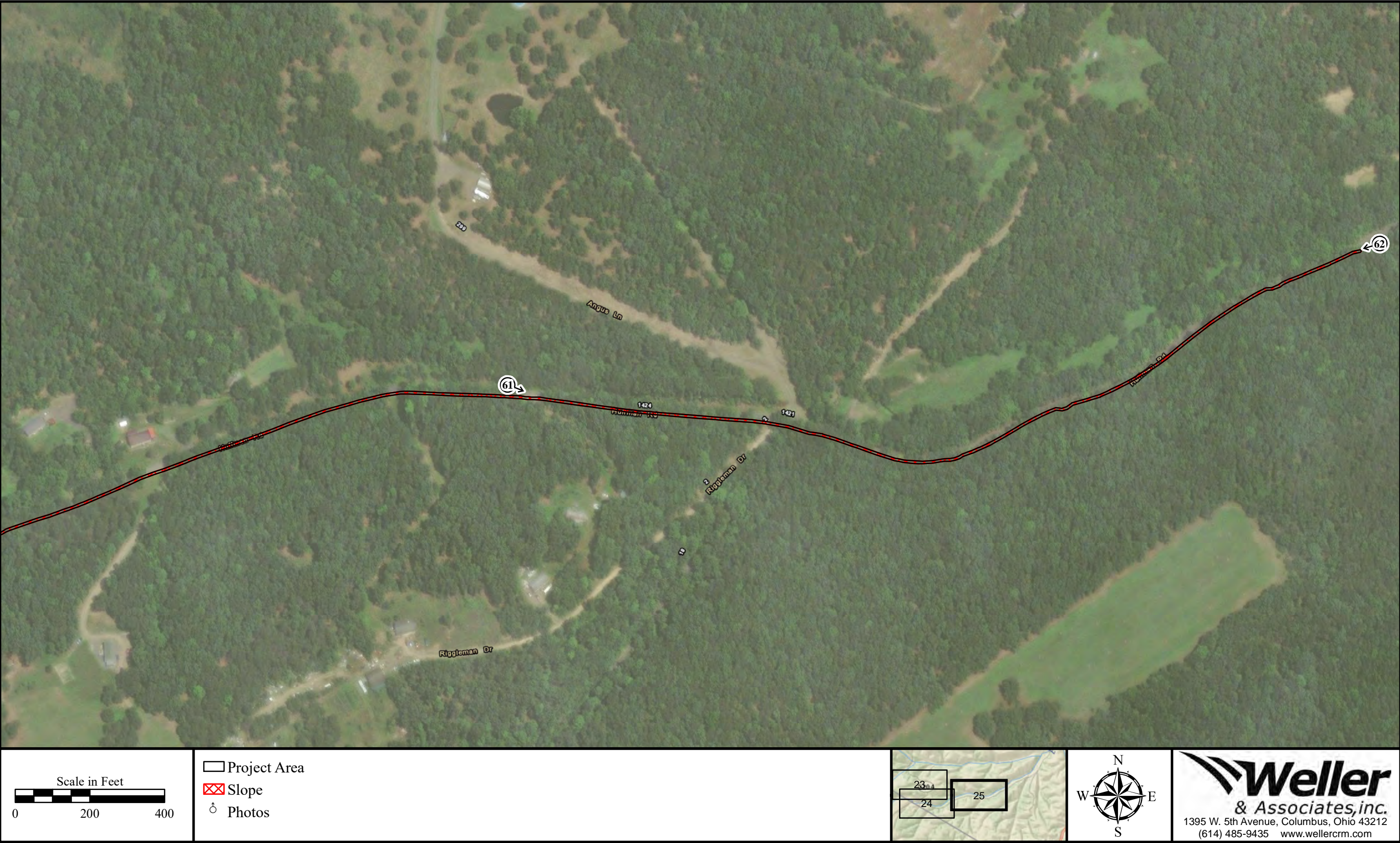


Figure 25. Fieldwork results and photo orientation map.



Figure 26. View of shovel tested conditions looking east.

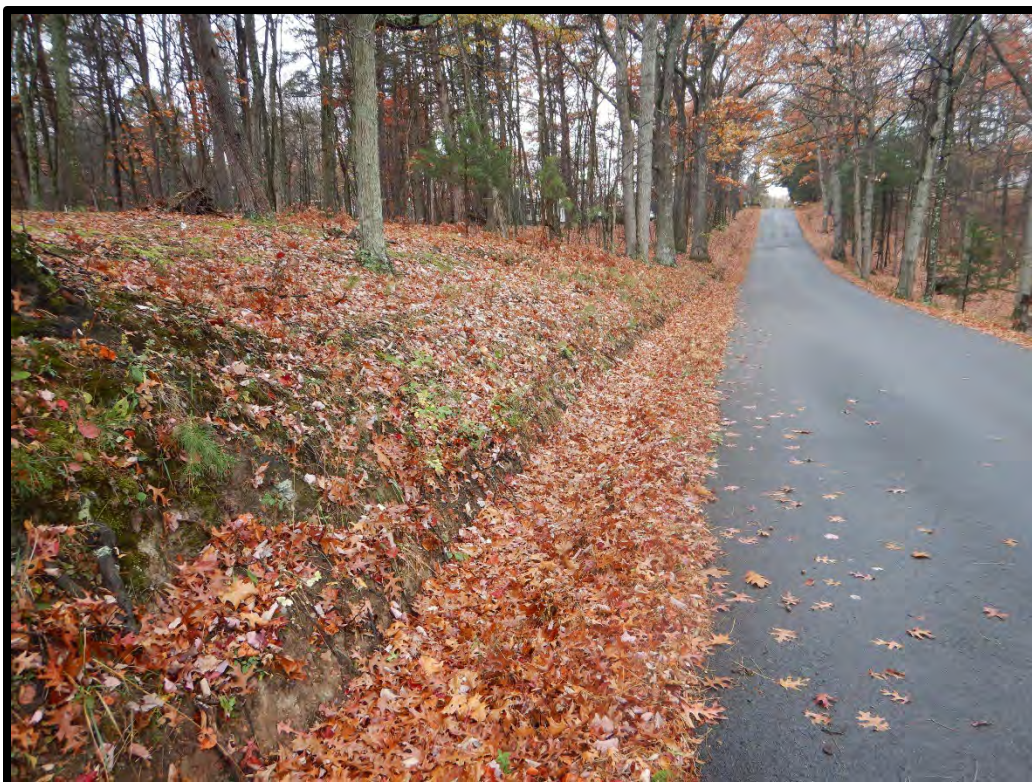


Figure 27. View of steeply sloped conditions looking southwest.



Figure 28. View of disturbed graded conditions looking northeast.



Figure 29. View of disturbed graded conditions looking northeast.



Figure 30. View of shovel tested conditions looking southwest.



Figure 31. View of shovel tested conditions looking south.



Figure 32. View of shovel tested conditions looking southwest.



Figure 33. View of steeply sloped conditions looking southeast.



Figure 34. View of steeply sloped conditions looking south.



Figure 35. View of steeply sloped conditions looking northwest.



Figure 36. View of steeply sloped conditions looking northeast.



Figure 37. View of steeply sloped conditions looking northeast.



Figure 38. View of steeply sloped conditions looking northeast.



Figure 39. View of steeply sloped conditions looking southwest.



Figure 40. View of shovel tested conditions looking southwest.



Figure 41. View of shovel tested conditions looking east.



Figure 42. View of steeply sloped conditions looking southeast.



Figure 43. View of steeply sloped conditions looking west.



Figure 44. View of steeply sloped conditions looking northeast.



Figure 45. View of steeply sloped conditions looking south.



Figure 46. View of steeply sloped conditions looking southeast.



Figure 47. View of steeply sloped conditions looking southeast.



Figure 48. View of shovel tested conditions looking southwest.



Figure 49. View of steeply sloped conditions looking east.



Figure 50. View of steeply sloped conditions looking southwest.



Figure 51. View of steeply sloped conditions looking northeast.



Figure 52. View of steeply sloped conditions looking west.



Figure 53. View steeply sloped conditions looking west.



Figure 54. View of disturbed existing road looking northwest.



Figure 55. View of disturbed ditch looking east.



Figure 56. View of steeply sloped conditions looking west.



Figure 57. View of steeply sloped conditions looking east.



Figure 58. View of shovel tested conditions looking south.



Figure 59. View of disturbed ditch looking west.



Figure 60. View of disturbed ditch looking southwest.



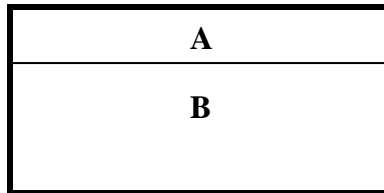
Figure 61. View of steeply sloped conditions looking east.



Figure 62. View of steeply sloped conditions looking west.

Schematic of a Test Unit Profile

Murrill Channery Loam (MvB)



A Mixed fill soils and gravel

B 10YR7/8 Yellow Sandy Clay with Manganese

Provenience: T1, U11

Figure 63

Depth to Subsoil: -12 cm

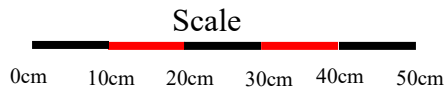


Figure 63. A typical disturbed shovel test unit excavated within the project.

Schematic of a Test Unit Profile

Murrill Channery Loam (MvB)



Ap 10YR5/2 Grayish Brown Channery Loam



B 7.5YR5/8 Strong Brown Silt Loam

Provenience: T3, U1

Figure 12

Depth to Subsoil: 24 cm

Scale

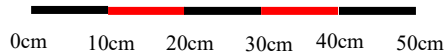


Figure 64. A typical shovel test unit excavated within the project.

Appendix A:

SHPO Correspondence Letters



West Virginia Department of
**ARTS, CULTURE
AND HISTORY**

The Culture Center
1900 Kanawha Blvd., E.
Charleston, WV 25305-0300

Randall Reid-Smith, Curator
Phone 304.558.0220 • www.wvculture.org
Fax 304.558.2779 • TDD 304.558.3562
EEO/AA Employer

September 29, 2021

Ms. Angie Curl
Project Specialist
Region 8 Planning and Development Council
Grant County Industrial Park
131 Providence Lane
Petersburg, WV 26847
Via email: acurl@regioneight.org

RE: Central Hampshire PSD – Southwestern Hampshire County Water Project (Phases I & II)
FR#: 21-882-HM-1

Dear Ms. Curl:

We have reviewed the abbreviated technical report titled, *Phase I Archaeological Survey for the Proposed Central Hampshire PSD Water Extension Project in Hampshire County, West Virginia*, that was prepared and submitted by Weller & Associates, Inc. for the above referenced project. As required by Section 106 of the National Historic Preservation Act, as amended, and its implementing regulations, 36 CFR 800: "Protection of Historic Properties," we submit our comments.

Archaeological Resources:

According to the submitted report, the proposed project area (33.4-acres) was investigated via pedestrian survey and systematic shovel testing. A total of 14 shovel test pits were excavated within the project area. According to the report, a majority of the project's Area of Potential Effect (APE) is situated on steep terrain and/or in previously disturbed areas. All of the excavated shovel test pits exhibited disturbed soil contexts. Only modern artifacts were encountered during the survey. No new archaeological sites were identified. We concur with the recommendation that no further work is necessary. In our opinion, the proposed waterline extension project (Phases I & II) will have no effect on archaeological historic properties. No further consultation is necessary regarding archaeological resources.

We appreciate the opportunity to be of service. *If you have questions regarding our comments or the Section 106 process, please Carolyn M. Kender, Archaeologist, at (304) 558-0240.*

Sincerely,

Susan M. Pierce
Deputy State Historic Preservation Officer

SMP/CMK

CC: Mr. Dominick P. Cerrone, PE, Cerrone Associates, Inc. (dpcerrone@cerrone1.com)
Mr. Seth Cooper, Weller & Associates, Inc. (scooper@wellercrm.com)



The Culture Center
1900 Kanawha Blvd., E.
Charleston, WV 25305-0300
Randall Reid-Smith, Curator

Phone 304.558.0220 • www.wvculture.org
Fax 304.558.2779 • TDD 304.558.3562
EEO/AA Employer

April 29, 2020

Mr. Dominick P. Cerrone, P.E.
Director of Engineering
Cerrone Associates, Inc.
97 14th Street
Wheeling, WV 26003

RE: Central Hampshire PSD – Southwestern Hampshire County Water Extensions
FR#: 20-657-HM

Dear Mr. Cerrone:

We have reviewed the above referenced project to determine potential effects on cultural resources. As required by Section 106 of the National Historic Preservation Act, as amended, and its implementing regulations, 36 CFR 800: "Protection of Historic Properties," we submit our comments.

According to the submitted information, the Central Hampshire Public Service District proposes to undertake water system extension project in the southwestern portion of Hampshire County, West Virginia from the Hardy County/Hampshire County line up to the community of Rada. The work will involve the installation of new water lines, a new 50,000 gallon water storage tank, and a 50 GPM above-ground booster station.

Architectural Resources:

We have reviewed the submitted information and determined that the proposed water line will pass adjacent to the Old Pine Church (NR# 12001049). The church was listed in the National Register of Historic Places in 2012. However, it is our opinion the proposed underground water line will have no effect on this resource. The included photographs and mapping show that the proposed water lines and above-ground infrastructure will not directly affect any architectural resources or affect any historic viewsheds. No further consultation is necessary regarding architectural resources; however, we do ask that you contact our office if your project should change.

Archaeological Resources:

A search of our records indicates that there are no previously recorded archaeological resources located within the proposed project area. Project mapping indicates that a large portion of the proposed ground disturbing activities will occur within previously disturbed areas and/or existing rights-of-way. However, there are sections of the proposed water line installation work that will occur outside of existing rights-of-way/utility corridors. We have concerns that there may be unrecorded archaeological deposits present within the proposed project area. We, therefore, request that a Phase I archaeological survey be conducted in the following areas: all areas where line installation work will occur outside of previously disturbed areas and/or existing rights-of-way; the proposed booster station site; and the proposed tank site as well as its associated access road and water line corridor. We will provide further comment upon receipt of the resulting technical report.

April 29, 2020
Mr. Cerrone
FR#: 20-657-HM
Page 2

Cemetery Resources:

Project mapping indicates that several sections of the proposed water line corridor will run adjacent to several cemeteries including the Old Pine Church Cemetery which is a contributing resource of the Old Pine Church National Register of Historic Places listed property (NR# 12001049). No ground disturbing activities will take place within the cemeteries and no above-ground infrastructure will be located within any of the cemeteries' direct viewsheds. Therefore, it is our opinion that the proposed water system extension project will have no effect on cemetery resources.

We appreciate the opportunity to be of service. *If you have questions regarding our comments or the Section 106 process, please contact Benjamin M. Riggle, Structural Historian, or Carolyn M. Kender, Archaeologist, at (304) 558-0240.*

Sincerely,

Susan M. Pierce signed electronically 2:45pm 4/29/2020

Susan M. Pierce
Deputy State Historic Preservation Officer

SMP/CMK/BMR

CC: Mr. Dominick Cerrone, Cerrone Associates, Inc. (dpcerrone@cerrone1.com)



West Virginia Department of
**ARTS, CULTURE
AND HISTORY**

The Culture Center
1900 Kanawha Blvd., E.
Charleston, WV 25305-0300

Randall Reid-Smith, Curator
Phone 304.558.0220 • www.wvculture.org
Fax 304.558.2779 • TDD 304.558.3562
EEO/AA Employer

August 23, 2021

Ms. Angie Curl
Project Specialist
Region 8 Planning and Development Council
Grant County Industrial Park
131 Providence Lane
Petersburg, WV 26847
Via email: acurl@regioneight.org

RE: Central Hampshire PSD – Southwestern Hampshire County Water Project (Phases I & II)
FR#: 21-882-HM

Dear Ms. Curl:

We have reviewed the above referenced project to determine potential effects on cultural resources. As required by Section 106 of the National Historic Preservation Act, as amended, and its implementing regulations, 36 CFR 800: "Protection of Historic Properties," we submit our comments.

According to the submitted information, the Hampshire County Commission along with the Central Hampshire Public Service District proposes to undertake a phased water system extension project in the vicinity of Purgitsville in the southwestern portion of Hampshire County, West Virginia. The project will include the installation of new water lines, a new water storage tank, and an above-ground booster station. The project was previously submitted for review by Cerrone Associates, Inc. in March 2020 (FR#: 20-657-HM) prior to it being separated into three phases. Phase III will be submitted under a separate cover at a later date.

Architectural Resources:

We have reviewed the revised project information and determined that the proposed water line will pass adjacent to the Old Pine Church (NR# 12001049). The church was listed in the National Register of Historic Places in 2012. However, it is our opinion the proposed underground water line will have no effect on this resource. The included mapping and project details show that the proposed water lines and above-ground infrastructure will not directly affect any architectural resources or affect any historic viewsheds. Therefore, we have determined that no architectural resources or districts will be affected by the proposed project. No further consultation is necessary regarding architectural resources; however, we do ask that you contact our office if your project should change.

Archaeological Resources:

The current submission indicates that a Phase I Archaeological Reconnaissance Survey was recently conducted within the current project area by Weller & Associates, Inc. However, the resulting technical report was not

August 23, 2021
Ms. Curl
FR#: 21-882-HM
Page 2

included with the current submission. Please forward the Phase I archaeological survey technical report and associated GIS shape files to our office for review. We will provide further comment upon its receipt.

Cemetery Resources:

Project mapping indicates that several sections of the proposed water line corridor will run adjacent to several cemeteries including the Old Pine Church Cemetery which is a contributing resource of the Old Pine Church National Register of Historic Places listed property (NR# 12001049). No ground disturbing activities will take place within the cemeteries and no above-ground infrastructure will be located within any of the cemeteries' direct viewsheds. Therefore, it is our opinion that Phases I and II of the proposed water system extension project will have no effect on cemetery resources.

We appreciate the opportunity to be of service. *If you have questions regarding our comments or the Section 106 process, please contact Benjamin M. Riggie, Structural Historian, or Carolyn M. Kender, Archaeologist, at (304) 558-0240.*

Sincerely,



Susan M. Pierce
Deputy State Historic Preservation Officer

SMP/BMR/CMK

CC: Ms. Courtney Neff, The Osage Nation (cneff@osagenation-nsn.gov)
Mr. Tom Landis, Farm Loan Chief, FSA (tom.landis@usda.gov)
Mr. Doug Cyphers, Acting State Executive, FSA (douglas.cyphers@usda.gov)
Mr. Josh Lewis, State Environmental Coordinator, FSA (josh.lewis@usda.gov)

Appendix B:
Relevant Staff Vitae

Seth T. Cooper

1332 Chaparral Rd
West Union, OH 45693
Phone: 937-217-5233
cooper.seth@outlook.com

Education:

University of Leicester: Master of Arts, Archaeology & Heritage 2018
Thesis: *19th Century Barns of Adams County, Ohio*. 2018
Hocking College 2009 to 2010, Archaeological Field Methods with Certificate and additional archaeology courses.
Shawnee State University 2004 to 2009, Bachelor of Arts, Social Sciences.

Recent Work History:

Cooper Archaeological Services

1332 Chapparral Rd
West Union, OH 45693
(937) 217-5233

Position & duties: Principal Investigator, Field Supervisor, report author and preparation (technical writing), ESRI ArcMap GIS, site form preparation and submission, historic research and literature reviews, project management, identification and curation of artifacts, public outreach, evaluation of sites for listing on the NRHP, and project documentation submission. Project Management includes Request for Proposal (RFP) for projects in Indiana, Kentucky, Ohio, Pennsylvania, Tennessee, Virginia, and West Virginia projects. Effectively communicate with clients and state agencies for Section 106 projects. 2019-present. 20 hours per week.

Weller & Associates

1395 W. 5th Ave.
Columbus, OH 43212
(614) 485-9435

Position & duties: Principal Investigator, Project Manager, Field Supervisor for Section 106 projects. Report author and preparation (technical writing), GIS, site form preparation and submission, historic research and literature reviews, management, identification and curation of artifacts, evaluation of sites for listing on the NRHP, project documentation submission, public outreach, and training new employees for projects in Kentucky, Ohio, Pennsylvania, and West Virginia projects. Effectively communicate with clients and state agencies for projects. 40 hours per week. 2012-2016, 2017 – present.

Archaeological Consultants of the Midwest

535 Fulton St.
Wheeling, WV 26003
304-242-3155

Position and duties: Field Supervisor, report author (technical writing), site form completion and submission, historic research and literature reviews. 2011 to 2012. 40 hours per week.

ASC Group, Inc.

800 Freeway Drive North, Suite 101
Columbus, Ohio, 43229
614.310.3540

Position and duties: Field technician: Field excavations. Part-time, 2009 to 2011. Eight-10 hours days on, six days off.

Hardlines Design Company

4608 Indianola Ave
Columbus, Ohio 43214
614.784.8733

Position and duties: Field technician: Field excavations, curation of artifacts. Part-time, 2009 to 2011. 40 hours per week.

Supervised and Analytic Experience in General North American Archaeology

Supervisors: Ryan Weller & Justin Zink, Weller & Associates, Inc., 2012-2013, field work, curation, **analysis**, and site forms for *Phase I Cultural Resource Management Investigations for the Prospective 497 ha (1,228 ac) Lehmann Farms Development Site in Scioto Township, Pickaway County, Ohio*. 144 sites identified; 31 sites re-identified. 11/04/2012 - 02/06/2013, 4 months (18 Weeks).

Supervisors: Ryan Weller & Joshua Engle, Weller & Associates, Inc., 2017, field work, curation, **analysis**, and site forms for the *Phase I Archaeological Survey for the Proposed 575 ha (1,420 ac) Muskingum Solar Project in Jackson Township, Muskingum County, Ohio*. 122 sites identified. 05/05/2017 - 12/13/2018, 7 months (32 Weeks).

Supervisor: Ryan Weller, Weller & Associates, Inc. 2017. **Analysis** of eight archaeological sites for the *Phase I Archaeological Survey for the Proposed Grand Patrician Resort Golf Course Project in Grant District, Cabell County, West Virginia*. 04/23/2019 – 05/17/2019. 3 Weeks.

Supervisory Experience for Prehistoric Archaeology

Field Supervisor, Author, Phase I Cell Tower projects in Ohio, Kentucky, West Virginia, Pennsylvania, and Indiana. 2013-2015, 2 years (104 Weeks).

Field Supervisor, Phase II Archaeological Assessment at Sites 33MU0140, 33MU0930, and 33MU1429. 06/01/2018-12/04/2018, 6 months (27 Weeks).

Field Supervisor, Phase II Archaeological Assessment at Site 33PE1128. 10/04/2018 - 11/06/2018. 1 month (4 Weeks).

Field Supervisor, Phase I Cultural Resource Management Investigations for the 31.03 km (19.28 mi) Long Thornville- Lancaster 69kV. 02/08/2017 - 06/06/2018, 4 months (18 Weeks).

Field Supervisor, Phase I Intensive investigations for Sites 33PI0112/0113, 0123/0125, 0445, 0446, 1124, 1128, 1134, and 1179. 06/05/2018 - 08/13/2018, 3 months (15 weeks).

Field Supervisor, Phase II archaeological Assessment of site 33AD0436. 07/13/2018 - 07/25/2018, 2 weeks.

Field Supervisor, Phase II Archaeological Assessment of Site 33CS0596. 09/14/2014 - 10/02/2018, 2 weeks.

Supervisory Experience for Historic Archaeology

Field Supervisor, Author, Phase I Cell Tower projects in Ohio, Kentucky, West Virginia, Pennsylvania, and Indiana. 2013-2015, 2 years (104 Weeks).

Thesis: *19th Century Barns of Adams County, Ohio*. University of Leicester. GIS, writing, field reconnaissance for barn type distributions, research of barn types and construction, culture regions, and immigration in Appalachia and the Midwest. 01/03/2018 - 10/04/2018 10 months (43 Weeks).

Field Supervisor, Phase II National Register Evaluation for sites 33GR1386, 33GR1393, and 33GR1399. 11/15/2017 - 02/12/2018, 3 months (9 Weeks).

Field Supervisor, Phase II Archaeological Assessment of Site 33AD0437. 07/13/2018 - 07/25/2018, 2 weeks.

References:

Christopher Nelson
USDA, NRCS, Archaeologist
Tennessee Division
Nashville, TN
Cell: (740) 407-5687

Ryan Weller
Owner/Principal Investigator
Weller & Associates, Inc.
1395 W 5th Ave.
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Cooper, S., and A. White

2021 Phase I Cultural Resource Management Investigations for the 5.46 ha (13.5 ac) Rose Hill Townhome Development Project in the City of Columbus, Franklin County, Ohio. Weller & Associates, Inc.

Cooper, S.

2021 Phase I Cultural Resource Management Survey for the Stonefly Stream Bank Mitigation Project in Lewis County, West Virginia. Weller & Associates, Inc.

Cooper, S.

2021 Phase I Archaeological Survey for the proposed Isom Ridge Surface Mine Project in McDowell County, West Virginia. Weller & Associates, Inc.

Cooper, S.

2021 Phase I Archaeological Survey for the Proposed Saturn Mine Project in Mercer and Wyoming Counties, West Virginia. Weller & Associates, Inc.

Cooper, S.

2020 Phase I Archaeological Survey for the Proposed Century Project in Barbour County, West Virginia. Weller & Associates, Inc.

Cooper, S.

2020 Phase I Archaeological Survey for the Proposed Milton Water Line Project in Grant District, Cabell County, West Virginia. Weller & Associates, Inc.

Cooper, S.

2020 Phase I Archaeological Monitoring for the Proposed RL-Brown Project in Bradford County, Pennsylvania. Weller & Associates, Inc.

Cooper, S.

2020 Phase I Archaeological Survey for the Proposed Monongah Sanitary Sewer Improvements Project in Marion County, West Virginia. Weller & Associates, Inc.

Cooper, S.

2020 Phase I Cultural Resource Management Survey for the Proposed HG Energy II Appalachia, LLC (HG) 1212 Well Pad Project in Lewis County, West Virginia. Weller & Associates, Inc.

Cooper, S.

2020 Phase I Cultural Resource Management Survey for the Proposed HG Energy II Appalachia, LLC (HG) 1212 Well Pad Reroute Project in Lewis County, West Virginia. Weller & Associates, Inc.

Cooper, S.

2020 Phase I Archaeological Survey for the proposed TL-255 Dominion Gas Line project in Wood County, West Virginia. Weller & Associates, Inc.

Cooper, S.

2020 Phase I Archaeological Survey for the Proposed Rafferty Natural Gas Transmission Pipe Line Project in Bridgewater Township, Susquehanna County, Pennsylvania. Weller & Associates, Inc.

Cooper, S.

2020 Phase I Archaeological Survey for the Proposed Rainelle Stormwater Diversion Channel Project in Greenbrier County, West Virginia. Weller & Associates, Inc.

Cooper, S.

2020 Phase I Archaeological Survey for the Proposed Zayo Long Haul Route Conduit Project in Hardy County, West Virginia. Weller & Associates, Inc.

Cooper, S.

2020 Phase I Archaeological Survey for the Proposed Dobrosielski Well Connect Project in Auburn Township, Susquehanna County, Pennsylvania. Weller & Associates, Inc.

Cooper, S.

2020 Phase I Archaeological Survey for the Proposed Bradley to Defeat Gas Line Project in Wyoming County, West Virginia. Weller & Associates, Inc.

Cooper, S.

2020 Phase I Archaeological Survey for the Proposed Meadow View Residential Development Project in Harrison County, West Virginia. Weller & Associates, Inc.

Cooper, S.

2020 Historical Research for the Grave Site of Civil War Cemetery and the WVDNR Boat Ramp at Blue Creek, Kanawha County, West Virginia. Weller & Associates, Inc.

Cooper, S.

2020 Phase I Archaeological Survey for the Proposed Guiton Alternative Project in Susquehanna County, Pennsylvania. Weller & Associates, Inc.

Cooper, S.

2020 Phase I Archaeological Survey for the Proposed Canaan Valley Waterline Project in Tucker County, West Virginia. Weller & Associates, Inc.

Cooper, S.

2020 Phase I Archaeological Survey for the proposed Polymer Technology Park Expansion project in Wood County, West Virginia. Weller & Associates, Inc.

Cooper, S.

2020 Phase I Archaeological Monitoring for the Proposed Sharpsburg Project in Allegheny County, Pennsylvania. Weller & Associates, Inc.

Cooper, S.

2020 Phase I Archaeological Survey for the Proposed Central Hampshire PSD Waterline Extension Project in Hampshire County, West Virginia. Weller & Associates, Inc.

Cooper, S.

2020 Phase I Archaeological Survey for the Proposed Affinity Mine IBR #12 (Permit No. U0115282) Project in Raleigh County, West Virginia. Weller & Associates, Inc.

Cooper, S.

2020 Phase I Archaeological Survey for the Proposed Grant County Water System Improvements Project in Grant County, West Virginia. Weller & Associates, Inc.

Cooper, S., R. Weller, and M. Schaney

2020 Phase I Archaeological Survey and Deep Testing for the Proposed Harbor Point Development Project in Wood County, West Virginia. Weller & Associates, Inc.

Cooper, S., and R. Weller

2020 Phase I Archaeological Survey for the Proposed Wellsburg North Sewer Improvements Project in Brooke County, West Virginia. Weller & Associates, Inc.

Cooper, S., and R. Weller

2020 Phase I Cultural Resource Management Survey for the Proposed Marshall County Mine Permit U-20007-07 IBR No. 16 Project in Marshall County, West Virginia. Weller & Associates, Inc.

Cooper, S., and R. Weller

2020 Phase I Archaeological Survey for the Proposed Wilderness Water System Improvements Project in Nicholas County, West Virginia. Weller & Associates, Inc.

Cooper, S.

2020 Phase I Archaeological Monitoring for the Proposed Riverside Plaza Project in Pittsburgh, Allegheny County, Pennsylvania ER# 2020-1258-003-A. Weller & Associates, Inc.

Cooper, S., and R. Weller

2020 Phase I Archaeological Survey for the Proposed Walton Wastewater System Improvements Project in Roane County, West Virginia. Weller & Associates, Inc.

Cooper, S., and R. Weller

2020 Phase I Archaeological Survey for the Proposed Gandeenville Wastewater System Improvements Project in Roane County, West Virginia. Weller & Associates, Inc.

Cooper, S., and R. Weller

2020 Phase I Archaeological Monitoring for the Proposed Winfield Wastewater System Improvements Project in Putnam County, West Virginia. Weller & Associates, Inc.

Cooper, S.

2020 Phase I Archaeological Survey for the Proposed US-TN-5194 East Jamestown Wireless Cell Tower in Fentress County, Tennessee. Cooper Archaeological Services.

Cooper, S.

2020 Phase I Archaeological Survey for the Proposed US-TN-5192 Neely Crossroads Wireless Cell Tower in Clay County, Tennessee. Cooper Archaeological Services.

Cooper, S.

2020 Phase I Archaeological Survey for the Proposed US-TN-5191 Pickett Park Wireless Cell Tower in Fentress County, Tennessee. Cooper Archaeological Services.

Cooper, S.

2020 Phase I Archaeological Survey for the Proposed US-TN-5189 Highway 52 and Thompkinsville Wireless Cell Tower in Clay County, Tennessee. Cooper Archaeological Services.

Cooper, S.

2020 Phase I Archaeological Survey for the Proposed US-TN-5123 Clay County Wireless Cell Tower in Clay County, Tennessee. Cooper Archaeological Services.

Cooper, S.

2020 Phase I Cultural Resources Management Survey for the Proposed US-PA-5555 Shanksville Wireless Cell Tower in Somerset County, Pennsylvania. Cooper Archaeological Services.

Cooper, S.

2020 Phase I Cultural Resources Management Survey for the Proposed US-PA-7775 Leetsdale Wireless Cell Tower in Allegheny County, Pennsylvania. Cooper Archaeological Services.

Cooper, S.

2020 Archaeological Monitoring for the US-OH-5287 (NOH8041) Coburn Wireless Cell Tower in Erie County, Ohio. Cooper Archaeological Services.

Cooper, S.

2020 Phase I Archaeological Survey for the US-OH-5097 Huber Heights Wireless Cell Tower in Miami County, Ohio. Cooper Archaeological Services.

Cooper, S.

2020 Phase I Cultural Resources Survey for the Proposed CLE North Newburg Alltel 58 W2 Small Cell Project in the City of Cleveland, Cuyahoga County, Ohio. Cooper Archaeological Services.

Cooper, S.

2020 Phase I Archaeological Survey for the Proposed OH-20 Shawnee Lodge Wireless Cell Tower in Scioto County, Ohio. Cooper Archaeological Services.

Cooper, S.

2020 Phase I Cultural Resources Survey for the Proposed Linndale South (CLEV-394) Antenna Change-Out Project in the City of Parma, Cuyahoga County, Ohio. Cooper Archaeological Services.

Cooper, S.

2020 Phase I Archaeological Survey for the Proposed US-TN-5125 Brownlow Wireless Cell Tower in Giles County, Tennessee. Cooper Archaeological Services.

Cooper, S.

2020 Phase I Archaeological Survey for the Proposed US-TN-5130 Cudge Hollow Wireless Cell Tower in Lewis County, Tennessee. Cooper Archaeological Services.

Cooper, S.

2020 Phase I Archaeological Survey for the Proposed US-TN-5134 Crewstown Wireless Cell Tower in Lawrence County, Tennessee. Cooper Archaeological Services.

Cooper, S.

2020 Phase I Archaeological Survey for the Proposed US-TN-5133 Seiber Ridge Wireless Cell Tower in Lewis County, Tennessee. Cooper Archaeological Services.

Cooper, S.

2020 Phase I Archaeological Survey for the Proposed US-TN-5135 Hinestown Wireless Cell Tower in Lewis County, Tennessee. Cooper Archaeological Services.

Cooper, S.

2020 Phase I Archaeological Survey for the Proposed US-TN-5131 Napier Lake Wireless Cell Tower in Lewis County, Tennessee. Cooper Archaeological Services.

Cooper, S.

2020 Phase I Archaeological Survey for the Proposed US-TN-5132 Hwy 20 and Napier Road Wireless Cell Tower in Lewis County, Tennessee. Cooper Archaeological Services.

Cooper, S.

2020 Phase I Archaeological Survey for the Proposed US-TN-5127 Factory Creek Wireless Cell Tower in Giles County, Tennessee. Cooper Archaeological Services.

Cooper, S.

2020 Phase I Archaeological Survey for the Proposed US-TN-5084 Mountain Trail Wireless Cell Tower in Sevier County, Tennessee. Cooper Archaeological Services.

Cooper, S.

2019 Phase I Archaeological Survey for the Proposed US-PA-5177 Oakglen Wireless Cell Tower in Allegheny County, Pennsylvania. Cooper Archaeological Services.

Cooper, S.

2020 Phase I Archaeological Survey for the Proposed US-TN-5087 Goodlettsville Wireless Cell Tower in Davidson County, Tennessee. Cooper Archaeological Services.

Cooper, S.

2020 Phase I Archaeological Survey for the Proposed US-TN-5111 Cane Creek Wireless Cell Tower in Hickman County, Tennessee. Cooper Archaeological Services.

Cooper, S., and C. Nelson

2019 Phase I Archaeological Survey for the Proposed US-IN-515 Lebanon Wireless Cell Tower in Boone County, Indiana. Cooper Archaeological Services.

Cooper, S., and C. Nelson

2019 Phase I Cultural Resources Survey for the Proposed US-IN-5108 Stonybrook Wireless Cell Tower in Marion County, Indiana. Cooper Archaeological Services.

Cooper, S.

2019 Phase I Archaeological Survey for the Proposed US-KY-5052 Bethany Wireless Cell Tower in Breathitt County, Kentucky. Cooper Archaeological Services.

Cooper, S.

2019 Phase I Archaeological Survey for the Proposed US-TN-5087 Goodlettsville Wireless Cell Tower in Davidson County, Tennessee. Cooper Archaeological Services.

Cooper, S.

2019 Phase I Archaeological Survey for the Proposed US-VA-5068 Fort Blackmore Wireless Cell Tower in Scott County, Virginia. Cooper Archaeological Services.

Cooper, S.

2019 Phase I Archaeological Survey for the Proposed US-KY-5051 Winchester Road Wireless Cell Tower in Estill County, Kentucky. Cooper Archaeological Services.

Cooper, S.

2019 Phase I Archaeological Survey for the Proposed New Cut Wireless Cell Tower in Jefferson County, Kentucky. Cooper Archaeological Services.

Cooper, S.

2020 Phase I Archaeological Survey for the Proposed Paden City Water System Improvements Project in Wetzel and Tyler Counties, West Virginia. Weller & Associates, Inc.

Cooper, S.

2019 Phase I Archaeological Survey for the Proposed Freeland Water Line Project in Marshall County, West Virginia. Weller & Associates, Inc.

Cooper, S.

2019 A Cultural Resource Management Preliminary Review for the Proposed Longworth to Mason Water Line Project in Marshall County, West Virginia. Weller & Associates, Inc.

Cooper, S.

2019 Phase I Archaeological Survey for the Proposed TL-255 North Project in Wood County, West Virginia. Weller & Associates, Inc.

Cooper, S.

2019 Phase I Archaeological Survey for the Proposed TL-255 South Project in Wood County, West Virginia. Weller & Associates, Inc.

Cooper, S.

2019 A Cultural Resource Management Preliminary Review for the Proposed Curry Pipeline Project in Marshall County, West Virginia. Weller & Associates, Inc.

Cooper, S.

2019 Phase I Archaeological Survey for the Proposed Capon Bridge Sewer Project in Hampshire County, West Virginia (FR Number 18-1377-HM-1). Weller & Associates, Inc.

Cooper, S.

2019 Phase I Cultural Resource Management Survey for the Skin Creek Tank Area Project in Lewis County, West Virginia. Weller & Associates, Inc.

Cooper, S.

2019 A Cultural Resource Management Preliminary Review for the Proposed Freedland Project in Marshall County, West Virginia. Weller & Associates, Inc.

Cooper, S.

2019 A Cultural Resource Management Preliminary Review for the Proposed Northern Trunkline 2 Project in Marshall County, West Virginia. Weller & Associates, Inc.

Cooper, S.

2019 Phase I Archaeological Survey for the Franz Thoman Well Connect Project in Ohio County, West Virginia. Weller & Associates, Inc.

Cooper, S.

2019 Phase I Cultural Resource Management Survey for the Beans Lane Housing Development Project in Moorefield, Hardy County, West Virginia (FR Number 19-784-HY). Weller & Associates, Inc.

Cooper, S.

2019 Phase I Cultural Resource Management Survey for the Ripley Sanitary Sewer System Improvement Project in Jackson County, West Virginia. Weller & Associates, Inc.

Cooper, S.

2019 A Phase I Archaeological Survey for the Proposed Mineral Wells PSD Water System Improvements Project in Wood County, West Virginia. Weller & Associates, Inc.

Cooper, S., and R. Weller

2019 Phase I Archaeological Survey for the Proposed Gaines Estate Project in Fayetteville, Fayette County, West Virginia. Weller & Associates, Inc.

Cooper, S.

2019 Phase I Archaeological Survey for the Proposed Northwest Fayette Intake to Strickler CWF Project in Fayette County, Pennsylvania. Weller & Associates, Inc.

Cooper, S., and J. Engle

2019 Phase I Cultural Resource Management Survey for the Pennypacker Pipeline Project in Harrison and Lewis Counties, West Virginia. Weller & Associates, Inc.

Cooper, S., J. Vosvick, and J. Engle

2019 Phase I Cultural Resource Management Survey for the Proposed Wyco Contour Surface Mine (Permit S301418) Project in Raleigh and Wyoming Counties, West Virginia. Weller & Associates, Inc.

Cooper, S., and R. Weller

2019 Phase I Archaeological Survey for the Proposed Pea Ridge Wastewater Treatment Plant in Cabell County, West Virginia. Weller & Associates, Inc.

Cooper, S., and J. Engle

2019 Phase I Archaeological Survey for the Proposed Longview Natural Gas Transmission Pipeline Project Additional Areas in Dunkard and Monongahela Townships, Greene County, Pennsylvania. Weller & Associates, Inc.

Cooper, S., and R. Weller

2019 Phase I Archaeological Survey for the Proposed Grand Patrician Resort Golf Course Project in Grant District, Cabell County, West Virginia. Weller & Associates, Inc.

Cooper, S., and R. Weller

2019 Cultural Resource Management Preliminary Review for a Proposed 298.9 ha (738 ac) Development and 18.55 Km (11.5 Mile) Sewer Line Project in Mason County, West Virginia. Weller & Associates, Inc.

Cooper, S., and J. Engle

2019 Phase I Archaeological Survey for the Proposed Taplin/Rita Sanitary Sewer Extension Project Phase - II in Logan County, West Virginia. Weller & Associates, Inc.

Cooper, S., and J. Engle

2019 Phase I Archaeological Survey for the Pritt to Osborn Well Connect Project in Harrison County, West Virginia. Weller & Associates, Inc.

Cooper, S., and J. Engle

2019 Phase I Archaeological Survey for the Proposed Tyler County PSD Alma Centerville Water Extension project in Ellsworth, McElroy, and Centerville Townships, Tyler County, West Virginia. Weller & Associates, Inc.

Cooper, S., and J. Engle

2019 Phase I Archaeological Literature Review and Reconnaissance Survey for the Proposed Logan County PSD Waste Coal Mountain Water Project in Logan and Wyoming Counties, West Virginia. Weller & Associates, Inc.

Weller, R., and S. Cooper

2019 Phase I Cultural Resource Management Investigations for the 4.0 ha (9.8 ac) Danbury Grove City Development in Jackson Township, Franklin County, Ohio. Weller & Associates, Inc.

Cooper, S., and R. Weller

2019 Phase I Archaeological Investigations for the Fairfield Plant Expansion Project in Ross Township, Butler County, Ohio. Weller & Associates, Inc.

Cooper, S., and R. Weller

2019 Phase I Cultural Resource Management Investigations for an 0.62 ha (1.52 ac) Vocational School Development at the Greater Portsmouth Regional Airport in Harrison Township, Scioto County, Ohio. Weller & Associates, Inc.

Cooper, S., and J. Engle

2019 Phase I Archaeological Investigations for the Proposed Approximately 9.75 km (6.06 mi), Brues-Glendale 69 kV Electric Line Rebuild Project in Marshall and Ohio Counties, West Virginia. Weller & Associates, Inc.

Weller, R., and S. Cooper

2019 Phase I Cultural Resource Management Investigations of 2.64 ha (6.52 ac) for the Zuber Station Expansion Project in Jackson Township, Franklin County, Ohio. Weller & Associates, Inc.

Cooper, S., and R. Weller

2019 Phase I Archaeological Investigations for the Proposed 0.4 ha (1 ac) Sardinia Substation Expansion Project in Eagle Township, Brown County, Ohio. Weller & Associates, Inc.

Cooper, S., and R. Weller

2019 Phase I Archaeological Investigations for the Proposed 0.37 ha (0.91 ac) Bentonville Substation Expansion Project in Sprigg Township, Adams County, Ohio. Weller & Associates, Inc.

Weller, R., and S. Cooper

2019 Phase I Archaeological Investigations for the .21 ha (.52 ac) Chrome Station Project in Franklin Township, Coshocton County, Ohio. Weller & Associates, Inc.

Weller, R., and S. Cooper

2019 Phase I Archaeological Survey for the Proposed Linworth Station Expansion Project in the City of Columbus (Perry Township), Franklin County, Ohio. Weller & Associates, Inc.

Weller, R., and S. Cooper

2019 Phase I Archaeological Literature Review and Reconnaissance Survey for the Proposed Longview Natural Gas Transmission Pipeline Project in Dunkard and Monongahela Townships, Greene County, Pennsylvania. Weller & Associates, Inc.

Cooper, S., and J., Engle

2019 Phase I Literature Review and Reconnaissance Survey for the Proposed Magnolia Gathering Pipeline Project in Magnolia District, Wetzel County, West Virginia. Weller & Associates, Inc.

Weller, R., and S. Cooper

2018 Phase I Archaeological Literature Review and Reconnaissance Survey for the Proposed Monongalia County Mine, CMAP#30841312, 4 North # 1 Portal, Gilmore Township, Greene County, Pennsylvania. Weller & Associates, Inc.

Engle, J., and S. Cooper

2018 Phase I Archaeological Literature Review and Reconnaissance Survey for the Lake Wilma Truck Load out and Intake, Wayne Township, Greene County, Pennsylvania. Weller & Associates, Inc.

Weller, R., and S. Cooper

2018 Phase I Archaeological Investigations for Approximately 4.4 ha (10.77 ac) of Tree Clearing at the Defiance Memorial Airport in Noble Township, Defiance County, Ohio. Weller & Associates, Inc.

Weller, R., and S. Cooper

2018 Phase I Cultural Resource Management Investigations for the Approximately 1.21 ha (3.0 ac) Taxiway Extension at Grimes Field (Airport) in Salem Township, Champaign County, Ohio. Weller & Associates, Inc.

Weller, R., and S. Cooper

2018 Phase I Archaeological Survey for the Proposed Linworth Station Expansion Project in the City of Columbus (Perry Township), Franklin County, Ohio. Weller & Associates, Inc.

Weller, R., and S. Cooper

2018 Phase I Archaeological Investigations for the .21 ha (.52 ac) Chrome Station Project in Franklin Township, Coshocton County, Ohio. Weller & Associates, Inc.

Weller, R., and S. Cooper

2015 Cultural Resource Management Literature Review for the 13.7 ha (33.86 ac) Hopeful Church Road Housing Development in Boone County, Kentucky (FY15-8330/2021). Weller & Associates, Inc.

Nelson, C., and S. Cooper

2015 Phase I Cultural Resource Management Investigations for the Proposed Venango Cellular Location in Rockland Township, Venango County, Pennsylvania. Weller & Associates, Inc.

Nelson, C., and S. Cooper

2015 Phase I Report for a Series of Proposed Wireless Cellular Collocations within Churchill Downs in the City of Louisville, Jefferson County, Kentucky (FY15-2022). Weller & Associates, Inc.

Weller, R., T. Barrett, and S. Cooper

2015 Phase I Report for the Proposed Ubiquitel-Hopkinsville Wireless Cellular Collocation in Christian County, Kentucky (FY15-2075). Weller & Associates, Inc.

Weller, R., and S. Cooper

2015 A Cultural Resource Management Literature Review for the Lower Muddy Creek Sanitary Sewer Overflow Remediation in the Village of Addyston, Hamilton County, Ohio. Weller & Associates, Inc.

Weller, R., and S. Cooper

2015 Cultural Resource Management Literature Review for the Proposed Pinkard Brannon Well Site in Gilmer County, West Virginia. Weller & Associates, Inc.

Weller, R., and S. Cooper

2015 Cultural Resource Management Literature Review for the 4.07 ha (10.07 ac) NRC Central College Campus Development in Blendon Township, Franklin County, Ohio. Weller & Associates, Inc.

Weller, R., and S. Cooper

2015 Cultural Resource Management Literature Review for the Approximately 0.21 ha (0.53 ac) National Lime and Stone Company Ottawa River Crossing in the City of Lima, Allen County, Ohio. Weller & Associates, Inc.

Cooper, S.

2015 Cultural Resource Management Literature Review for the Buzzards Roost Lake Restoration in Madison Township, Pickaway County, Ohio. Weller & Associates, Inc.

Weller, R., and S. Cooper

2015 Phase I Cultural Resource Management Survey for the Proposed New Sheffield Cellular Collocation in Aliquippa, Beaver County, Pennsylvania. Weller & Associates, Inc.

Nelson, C., and S. Cooper

2015 Phase I Cultural Resources Survey for the Proposed Pine Ridge Apartments (OH-CLE0294E14.1) Collocation in Willoughby Hills, Lake County, Ohio. Weller & Associates, Inc.

Nelson, C., and S. Cooper

2015 Phase I Cultural Resources Survey for the Proposed Maumee 1 Small Cell Installation in Maumee, Lucas County, Ohio. Weller & Associates, Inc.

Nelson, C., and S. Cooper

2015 Phase I Cultural Resources Survey for the Proposed Maumee IV SC Small Cell Installation in Maumee, Lucas County, Ohio. Weller & Associates, Inc.

Nelson, C., and S. Cooper

2015 Phase I Cultural Resources Survey for the Proposed Circleville Small Cell Installation in Circleville, Pickaway County, Ohio. Weller & Associates, Inc.

Nelson, C., and S. Cooper

2015 Phase I Cultural Resource Management Survey for the Proposed Shenango Towers Cellular Collocation in Sharon, Mercer County, Pennsylvania. Weller & Associates, Inc.

Cooper, S., and R. Weller

2014 Phase I Cultural Resource Management Survey for the Proposed College Hill Verizon Wireless Cell Tower in Adams Township, Guernsey County, Ohio. Weller & Associates, Inc.

Cooper, S., and R. Weller

2014 Phase I Cultural Resource Management Survey for the Proposed River View South Verizon Wireless Cell Tower in Jefferson Township, Coshocton County, Ohio. Weller & Associates, Inc.

Weller, R., and S. Cooper

2014 Phase I Abbreviated Report for the Proposed Norman Dale Road Wireless Cellular Tower in Bullitt County, Kentucky (FY14-7761). Weller & Associates, Inc.

Cooper, S., and R. Weller

2014 Cultural Resource Management Literature Review for the Proposed Sea Limited Development Project in Franklin County, Ohio. Weller & Associates, Inc.

Cooper, S., and R. Weller

2014 Phase I Cultural Resources Management Survey for the Proposed Walnut Knob Wireless Cellular Tower Relocation in Monroe County, West Virginia. Weller & Associates, Inc.

Weller, R., and S. Cooper

2014 Phase I Cultural Resources Management Survey for the Proposed River Bend Cell Tower (CIG0385WV) in Berkeley County, West Virginia. Weller & Associates, Inc.

Weller, R., and S. Cooper

2014 Cultural Resource Management Phase I Survey for the Proposed 7.2 ha (17.9 ac) The Pines IV Development in Sycamore Township, Hamilton County, Ohio. Weller & Associates, Inc.

Cooper, S., and R. Weller

2014 Cultural Resource Management Literature Review for the Proposed Approximately 0.56 ha (1.4 ac) Tiffin Station Project in Clinton Township, Seneca County, Ohio. Weller & Associates, Inc.

Weller, R., A. Ledezma Martinez, and S. Cooper

2014 Phase I Cultural Resources Management Survey for the Proposed Williamsport South Wireless Cellular Tower in Deer Creek Township, Pickaway County, Ohio. Weller & Associates, Inc.

Cooper, S., and R. Weller

2014 Phase I Cultural Resource Management Survey for the Proposed Lore City Verizon Wireless Cell Tower in Center Township, Guernsey County, Ohio. Weller & Associates, Inc.

Cooper, S., and R. Weller

2014 Phase I Archaeological Survey for the Proposed Dayton (E251) Wireless Cellular Tower in Wayne Township, Armstrong County, Pennsylvania. Weller & Associates, Inc.

Cooper, S., and R. Weller

2014 Phase I Archaeological Survey for the Proposed Mount Union (J095) Wireless Cellular Tower in Shirley Township, Huntingdon County, Pennsylvania. Weller & Associates, Inc.

Weller, R., and S. Cooper

2014 Phase I Abbreviated Report for the Proposed Turkeyfoot (OHLO1193) Wireless Cellular Tower in Kenton County, Kentucky (FY14- 7936). Weller & Associates, Inc.

Weller, R., and S. Cooper

2014 Phase I Archaeological Survey for the Proposed Rimersburg Wireless Cellular Tower in Madison Township, Clarion County, Pennsylvania. Weller & Associates, Inc.

Weller, R., and S. Cooper

2014 Phase I Cultural Resources Management Survey for the Proposed Landsdowne Wireless Cellular Tower in the City of Youngtown, Mahoning County, Ohio. Weller & Associates, Inc.

Weller, R., and S. Cooper

2014 Phase I Abbreviated Report for the Proposed Blanket Creek (OHLO1296) Wireless Cellular Tower in Pendleton County, Kentucky (FY14- 7943). Weller & Associates, Inc.

Cooper, S., and R. Weller

2014 Phase I Cultural Resource Management Survey for the Proposed Liberty Wireless Cell Tower (SOH2446) in Jefferson Township, Montgomery County, Ohio. Weller & Associates, Inc.

Cooper, S., and R. Weller

2014 Phase I Cultural Resources Management Survey for the Proposed Ridgeland (SOH3923) Wireless Cellular Tower in Lick Township, Jackson County, Ohio. Weller & Associates, Inc.

Cooper, S., and R. Weller

2014 Phase I Cultural Resource Management Survey for the Proposed Hilliard 911 Wireless Cell Tower in Norwich Township, Franklin County, Ohio. Weller & Associates, Inc.

Cooper, S., and R. Weller

2014 Phase I Archaeological Investigations for the WV660 Variable Width Utility Easement in Cabell County, West Virginia. Weller & Associates, Inc.

Cooper, S., and R. Weller

2014 Phase I Cultural Resources Management Survey for the Proposed Rachel Wireless Cellular Tower in Marion County, West Virginia. Weller & Associates, Inc.

Weller, R., and S. Cooper

2014 Phase I Archaeological Survey for the Proposed Watertown Wireless Cell Tower in Watertown Township, Washington County, Ohio. Weller & Associates, Inc.

Cooper, S., and R. Weller

2014 Phase I Cultural Resources Management Survey for the Proposed Nutter Farm Wireless Cellular Tower in Grant Township, Ritchie County, West Virginia. Weller & Associates, Inc.

Cooper, S., and R. Weller

2014 Phase I Archaeological Survey for the Proposed Verona Wireless Cellular Tower in Penn Hills Township, Allegheny County, Pennsylvania. Weller & Associates, Inc.

Cooper, S., and R. Weller

2014 Phase I Cultural Resources Management Survey for the Proposed WV207 Wireless Cellular Tower in Wayne County, West Virginia. Weller & Associates, Inc.

Cooper, S., and R. Weller

2014 Phase I Cultural Resources Management Survey for the Proposed Lansing Wireless Cellular Tower in Fayette County, West Virginia. Weller & Associates, Inc.

Weller, R., and S. Cooper

2014 Phase I Archaeological Survey for the Proposed Alum Creek Wireless Cellular Tower (SOH3274) in Berlin Township, Delaware County, Ohio. Weller & Associates, Inc.

Weller, R., and S. Cooper

2014 Phase I Abbreviated Report for the Proposed OHL01376/Villa Hills KY Wireless Cellular Tower in Kenton County, Kentucky (FY14- 8117). Weller & Associates, Inc.

Weller, R., S. Cooper, and T. Barrett

2014 Phase I Abbreviated Report for the Proposed Stamping Ground 2 - Caudill Wireless Cellular Tower in Scott County, Kentucky (FY14-8118). Weller & Associates, Inc.

Weller, R., and S. Cooper

2014 Phase I Archaeological Survey for the Proposed Cornerstone Wireless Cell Tower in Miami Township, Greene County, Ohio. Weller & Associates, Inc.

Cooper, S., and R. Weller

2014 Phase I Cultural Resources Management Survey for the Proposed River View South Cellular Tower in Jefferson Township, Coshocton County, Ohio. Weller & Associates, Inc.

Weller, R., and S. Cooper

2014 Phase I Archaeological Survey for the Proposed Kirby Wireless Cell Tower in Turtle Creek Township, Warren County, Ohio. Weller & Associates, Inc.

Cooper, S., and R. Weller

2014 Phase I Archaeological Survey for the Proposed Woodhill Church (W036) Wireless Cellular Tower in Marshall County, West Virginia. Weller & Associates, Inc.

Weller, R., and S. Cooper

2014 Phase I Archaeological Survey for the Proposed Polk Run (OHL01042) Cellular Tower in Symmes Township, Hamilton County, Ohio. Weller & Associates, Inc.

Weller, R., and S. Cooper

2014 Phase I Archaeological Survey for the Proposed Rolling Meadows Wireless Cell Tower in Washington Township, Clermont County, Ohio. Weller & Associates, Inc.

Cooper, S., and R. Weller

2014 Phase I Cultural Resources Management Survey for the Proposed Brentwood Lake Elyria Wireless Cellular Tower in Eaton Township, Lorain County, Ohio. Weller & Associates, Inc.

Weller, R., and S. Cooper

2014 Phase I Cultural Resources Management Survey for the Proposed Collinsdale Wireless Cellular Tower in Cabin Creek District, Kanawha County, West Virginia. Weller & Associates, Inc.

Weller, R., and S. Cooper

2014 Phase I Archaeological Survey for the Proposed Darbyville (OH3459) Wireless Cellular Tower in Muhlenberg Township, Pickaway County, Ohio. Weller & Associates, Inc.

Cooper, S., and R. Weller

2014 Phase I Archaeological Survey for the Proposed M039 Aurora Wireless Cellular Tower in Preston County, West Virginia. Weller & Associates, Inc.

Weller, R., and S. Cooper

2014 Phase I Cultural Resource Management Survey for the Proposed OH Stanleyville Wireless Cellular Tower in Fearing Township, Washington County, Ohio. Weller & Associates, Inc.

Weller, R., and S. Cooper

2014 Phase I Archaeological Survey for the Proposed W027 Point Mills Cellular Tower in Ohio County, West Virginia. Weller & Associates, Inc.

Cooper, S., and R. Weller

2014 Phase I Archaeological Survey for the Proposed Gipsy Wireless Cellular Tower in Montgomery Township, Indiana County, Pennsylvania. Weller & Associates, Inc.

Weller, R., and S. Cooper

2014 Phase I Cultural Resources Management Survey for the Proposed Teegarden (HV883) Cellular Tower in Salem Township, Columbiana County, Ohio. Weller & Associates, Inc.

Weller, R., and S. Cooper

2014 Phase I Archaeological Survey for the Proposed OH North Grove Cemetery Cellular Tower at 7179 US-127, Celina (45822) in (Jefferson Township), Mercer County, Ohio. Weller & Associates, Inc.

Weller, R., and S. Cooper

2014 Phase I Cultural Resource Management Survey for the Proposed New Castle North Cellular Collocation in Lawrence County, Pennsylvania. Weller & Associates, Inc.

Weller, R., and S. Cooper

2014 Phase I Archaeological Survey for the Proposed Rock Springs Wireless Cellular Tower (SOH3939) in Salisbury Township, Meigs County, Ohio. Weller & Associates, Inc.

Weller, R., A. Ledezma, and S. Cooper

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Cooper, S., and R. Weller

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Weller, R., S. Cooper, and A. Thomas

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Weller, R., and S. Cooper

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Barrett, T., R. Weller, and S. Cooper

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Barrett, T., R. Weller, and S. Cooper

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Barrett, T., R. Weller, and S. Cooper

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Barrett, T., R. Weller, and S. Cooper

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Wireless Cellular Collocation in the City of Louisville, Jefferson County, Kentucky
(FY15-1883). Weller & Associates, Inc.

Weller, R., T. Barrett, and S. Cooper

2014 Phase I Cultural Resource Management Survey for the Proposed Gridley Park
Cellular Collocation in Erie County, Pennsylvania. Weller & Associates, Inc.

Weller, R., and S. Cooper

2014 Phase I Cultural Resources Management Survey for the Proposed Mosquito Creek
Wireless Cellular Tower in Mecca Township, Trumbull County, Ohio. Weller &
Associates, Inc.

Weller, R., and S. Cooper

2014 Phase I Archaeological Survey for the Proposed Fort Loramie Wireless Cell
Tower (SOH2327) in McLean Township, Shelby County, Ohio. Weller & Associates,
Inc.

Weller, R., and S. Cooper

2014 Phase I Archaeological Survey for the Proposed Hooven (OHL01065) Cellular
Tower in Whitewater Township, Hamilton County, Ohio. Weller & Associates, Inc.

Cooper, S., and R. Weller

2014 Phase I Abbreviated Report for the Proposed Russell Heights Wireless Cellular
Tower in Greenup County, Kentucky (FY14-8204/1896). Weller & Associates, Inc.

Cooper, S., R. Weller, and T. Barrett

2014 Phase I Cultural Resources Management Survey for the Proposed Ritter Park
Wireless Cellular Tower in the City of Huntington, Cabell County, West Virginia.
Weller & Associates, Inc.

Weller, R., S. Cooper, and A. Thomas

2014 A Phase I Archaeological Survey for the 38th & Post (MW04607C) Wireless Cell
Tower Location in Marion County, Indiana. Weller & Associates, Inc.

Cooper, S., and R. Weller

2014 Phase I Archaeological Survey for the Proposed Pine Lake (OH3432) Wireless
Cell Tower in Hocking Township, Fairfield County, Ohio. Weller & Associates, Inc.

Cooper, S., and R. Weller

2014 Phase I Abbreviated Report for the Proposed WHF Training Center Wireless
Cellular Tower in Muhlenberg County, Kentucky (FY15-8238/1901). Weller &
Associates, Inc.

Weller, R., S. Cooper, and T. Barrett

2014 Phase I Cultural Resources Management Survey for the Proposed Bradford Street Wireless Cellular Tower in the City of Charleston, Kanawha County, West Virginia. Weller & Associates, Inc.

Weller, R., and S. Cooper

2014 Phase I Cultural Resource Management Survey for the Proposed Zediker Cellular Collocation in Washington County, Pennsylvania. Weller & Associates, Inc.

Cooper, S., and R. Weller

2014 Phase I Archaeological Survey for the Proposed Delaware Southeast Wireless Cell Tower (SOH3290) in Delaware Township, Delaware County, Ohio. Weller & Associates, Inc.

Cooper, S., and R. Weller

2014 Phase I Cultural Resources Management Survey for the Proposed Andover North Wireless Cellular Tower in Andover Township, Ashtabula County, Ohio. Weller & Associates, Inc.

Cooper, S., and R. Weller

2014 Phase I Cultural Resources Management Survey for the Proposed Thompson Northwest Wireless Cellular Tower in Thompson Township, Geauga County, Ohio. Weller & Associates, Inc.

Cooper, S., and R. Weller

2014 Phase I Cultural Resources Management Survey for the Proposed Middlefield Southeast Wireless Cellular Tower in Middlefield Township, Geauga County, Ohio. Weller & Associates, Inc.

Cooper, S., and R. Weller

2014 Phase I Cultural Resources Management Survey for the Proposed Welshfield North Wireless Cellular Tower in Troy Township, Geauga County, Ohio. Weller & Associates, Inc.

Cooper, S., T. Barrett, and R. Weller

2014 Phase I Archaeological Survey for the Proposed Kirby II Wireless Cell Tower in Turtle Creek Township, Warren County, Ohio. Weller & Associates, Inc.

Cooper, S., and R. Weller

2014 Phase I Archaeological Survey for the Proposed Lee Harvard (OH0763) Wireless Cellular Tower in the City of Cleveland, Cuyahoga County, Ohio. Weller & Associates, Inc.

Cooper, S., R. Weller, and A. Thomas

2014 Phase I Cultural Resource Management Survey for the Bellville East Wireless Cell Tower (MNFD-039) in Jefferson Township, Richland County, Ohio. Weller & Associates, Inc.

Cooper, S., and R. Weller

2014 Phase I Cultural Resource Management Survey for the Apple Creek East Wireless Cell Tower (MROW-152) In East Union Township, Wayne County, Ohio. Weller & Associates, Inc.

Cooper, S., and R. Weller

2014 Phase I Cultural Resource Management Survey for the Mount Eaton West Wireless Cell Tower (MROW 155) in Salt Creek Township, Wayne County, Ohio. Weller & Associates, Inc.

Cooper, S., and R. Weller

2014 Phase I Cultural Resource Management Survey for the Craigton Wireless Cell Tower (MROW-153) in Clinton Township, Wayne County, Ohio. Weller & Associates, Inc.

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2014 Phase I Archaeological Survey for the Approximately 289 m (950 ft) Long Access Corridor #2 for the Neffs (W033) Cellular Tower in Pultney Township, Belmont County, Ohio. Weller & Associates, Inc.

Weller, R., and S. Cooper

2014 Cultural Resource Management Literature Review for the Clover Water Pipeline Project in Smithfield District, Roane County, West Virginia. Weller & Associates, Inc.

Weller, R., and S. Cooper

2014 Phase I Cultural Resource Management Survey for the Proposed Alert (HMTN-032) Wireless Cell Tower in Morgan Township, Butler County, Ohio. Weller & Associates, Inc.

Weller, R., and S. Cooper

2014 Phase I Cultural Resource Management Survey for the Proposed College Corner (HMTN-034) Wireless Cell Tower in Oxford Township, Butler County, Ohio. Weller & Associates, Inc.

Weller, R., and S. Cooper

2014 Phase I Cultural Resource Management Survey for the Proposed Fairgrove (HMTN-035) Wireless Cell Tower in the City of Hamilton Township, Butler County, Ohio. Weller & Associates, Inc.

Weller, R., and S. Cooper

2014 Phase I Cultural Resource Management survey for the Proposed Phillipsburg Cellular Tower (DYIN-135) in Clay Township, Montgomery County, Ohio. Weller & Associates, Inc.

Weller, R., and S. Cooper

2014 Phase I Cultural Resource Management survey for the Proposed Phillipsburg Cellular Tower (DYIN-135) in Clay Township, Montgomery County, Ohio. Weller & Associates, Inc.

Weller, R., and S. Cooper

2014 Phase I Cultural Resource Management Survey for the Proposed Vandervorts (CNCN-344) Wireless Cell Tower in Massie Township, Warren County, Ohio. Weller & Associates, Inc.

Weller, R., C. Nelson, and S. Cooper

2014 Phase I Archaeological Survey for the Proposed Zuber Young Wireless Cell Tower (CLMB-359) in Jackson Township, Franklin County, Ohio. Weller & Associates, Inc.

Weller, R., and S. Cooper

2014 Phase I Archaeological Survey for the Proposed Rickenbacker North Wireless Cell Tower (SOH3144) in Hamilton Township, Franklin County, Ohio. Weller & Associates, Inc.

Weller, R., and S. Cooper

2014 Phase I Archaeological Survey for the Proposed Seclusion Woods Wireless Cell Tower in Plain Township, Franklin County, Ohio. Weller & Associates, Inc.

Weller, R., and S. Cooper

2014 Phase I Archaeological Survey for the Proposed US.WV.Wild Boar Cellular Tower in Hampshire County, West Virginia. Weller & Associates, Inc.

Nelson, C., and S. Cooper

2014 Phase I Cultural Resource Management Investigations for the Proposed US.PA.VIGI.Albrightsville Cellular Location in Penn Forest Township, Carbon County, Pennsylvania. Weller & Associates, Inc.

Nelson, C., and S. Cooper

2014 Phase I Cultural Resources Management Survey for the Proposed Huron County EMA Radio Tower in Greenfield Township, Huron County, Ohio. Weller & Associates, Inc.

Weller, R., S. Cooper, and A. Thomas

2014 A Phase I Archaeological Survey for the Tippecanoe Valley Lukens Wireless Cell Tower Location in Fulton County, Indiana. Weller & Associates, Inc.

Weller, R., and S. Cooper

2014 A Phase I Archaeological Survey for the Homefarm Wireless Cell Tower
Location in LaPorte County, Indiana. Weller & Associates, Inc.

Cooper, S., and R. Weller

2014 Phase I Cultural Resources Management Survey for the Proposed West Richfield
Substation (Hinckley East) Wireless Cellular Tower in Richfield Township, Summit
County, Ohio. Weller & Associates, Inc.

Weller, R., and S. Cooper

2014 Cultural Resource Management Literature Review for the Pokagon and Kenzie
Creek Station 69kV Rebuild and 138kV Extension in Cass County, Michigan. Weller
& Associates, Inc.

Weller, R., and S. Cooper

2014 Cultural Resource Management Literature Review for the 1.41 ha (3.5 ac)
Godown and Slade Avenue Housing Development in Perry Township, Franklin
County, Ohio. Weller & Associates, Inc.

Weller, R., and S. Cooper

2014 A Phase I Archaeological Survey for the Waynedale Wireless Cell Tower
Location in the City of Fort Wayne, Allen County, Indiana. Weller & Associates, Inc.

Cooper, S., and R. Weller

2014 Phase I Cultural Resource Management Survey for the Proposed River View
South Verizon Wireless Cell Tower in Jefferson Township, Coshocton County, Ohio.
Weller & Associates, Inc.

Weller, R., and S. Cooper

2014 Phase I Archaeological Survey for the Proposed Atwood Lake (NOH6237)
Wireless Cellular Tower in Monroe Township, Carroll County, Ohio. Weller &
Associates, Inc.

Weller, R., and S. Cooper

2013 Phase I Abbreviated Report for the Proposed Blevins Gap Wireless Cellular
Tower in Jefferson County, Kentucky (FY14-7758). Weller & Associates, Inc.

Weller, R., and S. Cooper

2013 A Phase II Archaeological Assessment of Site 46GB473 within the Proposed Ft.
Springs PCS Access Road and Lease Limits, Greenbrier County, West Virginia.
Weller & Associates, Inc.

Weller, R., and S. Cooper

2013 Cultural Resource Management Literature Review for the Proposed .4 ha (1.0 ac) Mill Creek Culvert Extension in Sharonville, Hamilton County, Ohio. Weller & Associates, Inc.

Weller, R., and S. Cooper

2013 Phase I Abbreviated Report for the Proposed Salt River Wireless Cellular Tower in Bullitt County, Kentucky (FY147847). Weller & Associates, Inc.

Weller, R., and S. Cooper

2013 Phase I Abbreviated Report for the Proposed Castleman Branch Wireless Cellular Tower in Bullitt County, Kentucky (FY14-7861). Weller & Associates, Inc.

Weller, R., and S. Cooper

2013 Cultural Resource Management Literature Review for the Proposed Redwood Acquisition, LLC Clough Pike (Approx. 70 Acres) Acres Development Project in Union Township, Clermont County, Ohio. Weller & Associates, Inc.

Cooper, S., and R. Weller

2013 Cultural Resource Management Literature Review for the Proposed Approximately 1.0 ha (2.5 ac) Adams Station Project in Meigs Township, Adams County, Ohio. Weller & Associates, Inc.

Weller, R., and S. Cooper

2013 Cultural Resource Management Literature Review for the Stringtown Pipeline Project in McElroy Township, Tyler County and Green Township, Wetzel County, West Virginia. Weller & Associates, Inc.

Weller, R., and S. Cooper

2013 Cultural Resource Management Literature Review for the Proposed BFT Tank Site in McElroy Township, Tyler County, West Virginia. Weller & Associates, Inc.

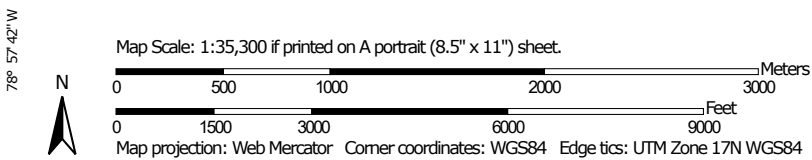
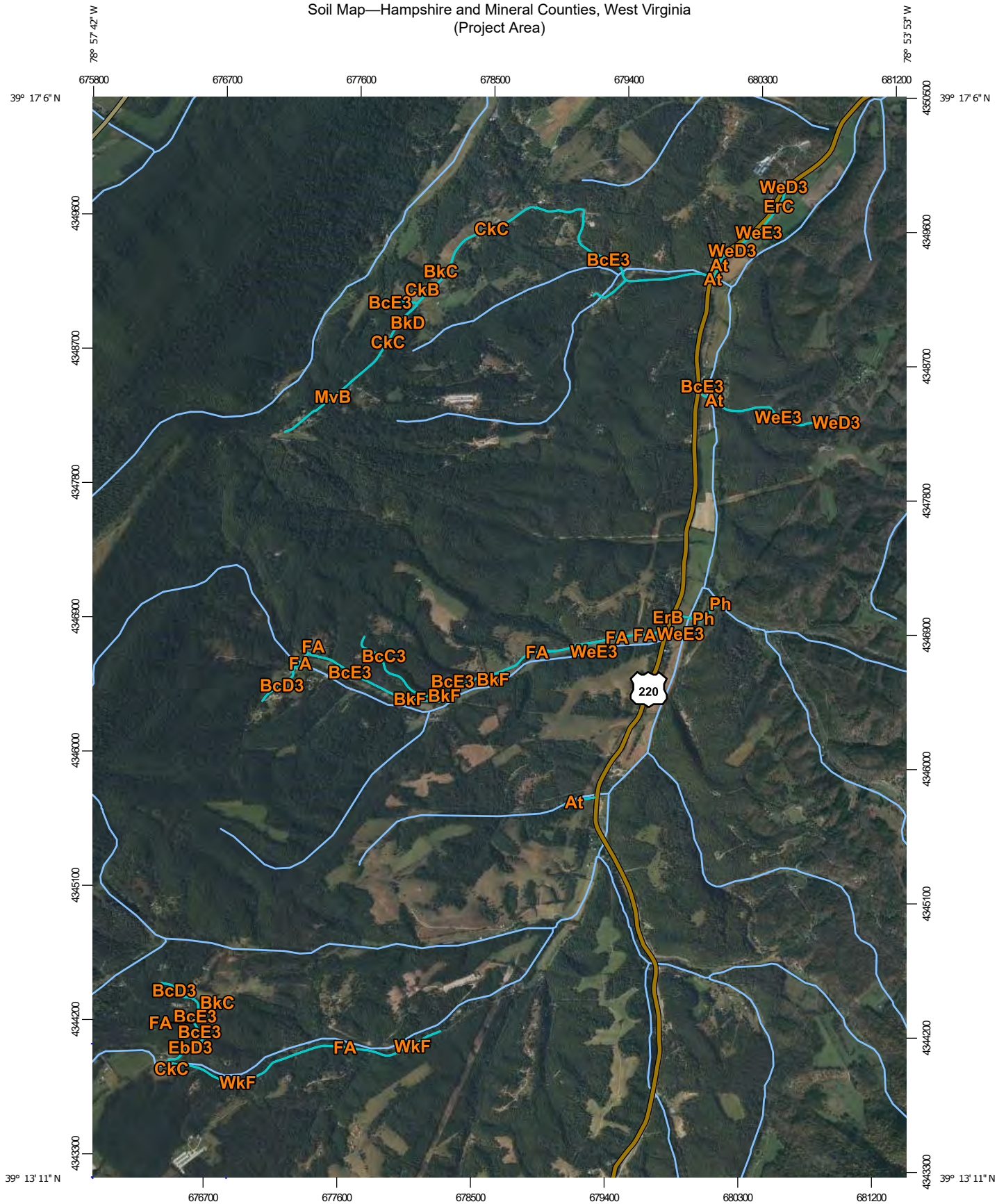
Cooper, S., and R. Weller

2013 Cultural Resource Management Literature Review for the Proposed 7.7 ha (19.1 ac) National Lime & Stone Distribution Yard in Green Township, Harrison County, Ohio. Weller & Associates, Inc.

Appendix C:

Soils Map

Soil Map—Hampshire and Mineral Counties, West Virginia
(Project Area)



Soil Map—Hampshire and Mineral Counties, West Virginia (Project Area)

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Hampshire and Mineral Counties, West Virginia

Survey Area Data: Version 18, Sep 9, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Sep 23, 2020—Nov 3, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
At	Atkins silt loam	0.3	4.7%
BcC3	Berks channery silt loam, 8 to 15 percent slopes, severely eroded	0.3	4.2%
BcD3	Berks channery silt loam, 15 to 25 percent slopes, severely eroded	0.3	4.4%
BcE3	Berks channery silt loam, 25 to 35 percent slopes, severely eroded	1.6	21.6%
BkC	Berks channery silt loam, 8 to 15 percent slopes	0.2	3.4%
BkD	Berks channery silt loam, 15 to 25 percent slopes	0.2	2.4%
BkF	Berks channery silt loam, 35 to 65 percent slopes	0.3	3.9%
CkB	Clarksburg channery silt loam, 3 to 8 percent slopes	0.1	0.7%
CkC	Clarksburg channery silt loam, 8 to 15 percent slopes	0.5	7.6%
EbD3	Edom silty clay loam, 15 to 25 percent slopes severely eroded	0.1	2.0%
ErB	Ernest silt loam, 3 to 8 percent slopes	0.0	0.5%
ErC	Ernest silt loam, 8 to 15 percent slopes	0.1	1.1%
FA	Fluvaquents	1.0	13.4%
MvB	Murrill channery loam, clayey subsoil variant, 3 to 8 percent slopes	0.4	6.0%
Ph	Philo silt loam	0.2	2.1%
WeD3	Weikert channery silt loam, 15 to 25 percent slopes, severely eroded	0.1	1.3%
WeE3	Weikert channery silt loam, 25 to 35 percent slopes, severely eroded	0.7	9.9%
WeF3	Weikert channery silt loam, 35 to 65 percent slopes, severely eroded	0.0	0.1%
WkF	Weikert-Berks channery silt loams, 35 to 65 percent slopes	0.8	10.6%
Totals for Area of Interest		7.2	100.0%