



Legal Department

American Electric Power
1 Riverside Plaza
Columbus, OH 43215-2373
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December 13, 2016

Chairman Asim Z. Haque
Ohio Power Siting Board
180 East Broad Street
Columbus, Ohio 43215

Erin C. Miller
Contract Counsel –
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(614) 716-2014 (F)
ecmiller1@aep.com

**Re: PUCO Case No. 16-1777-EL-BNR
In the Matter of the Construction Notice for the
Bolton T-Line Cut-In**

Dear Chairman Haque,

Attached please find a copy of the Construction Notice for the above-referenced Transmission Line Project submitted by AEP Ohio Transmission Company, Inc. (“AEP Ohio Transco”). This filing and notice is in accordance with O.A.C. 4906-6-05.

If you have any questions, please do not hesitate to contact me.

Respectfully Submitted,

/s/ Erin C. Miller
Erin C. Miller
Contract Counsel
AEP Ohio Transmission Company, Inc.

cc: Jon Pawley, OPSB Staff

Construction Notice for Bolton Station 138 kV Line Extension Project



PUCO Case No. 16-1777-EL-BNR

Submitted to:
The Ohio Power Siting Board
Pursuant to Ohio Administrative Code
4906-6-05

Submitted by:
AEP Ohio Transmission Company, Inc.

December 13, 2016

CONSTRUCTION NOTICE FOR BOLTON STATION 138 KV LINE EXTENSION PROJECT

December 13, 2016

Construction Notice

Bolton Station 138 kV Line Extension Project

4906-6-05

AEP Ohio Transmission Company, Inc. ("AEP Ohio Transco") requests accelerated review of this Construction Notice ("CN") pursuant to Ohio Administrative Code Section 4906-6-05.

4906-6-5(B) General Information

B(1) Project Description

The name of the project and applicant's reference number, names and reference number(s) of resulting circuits, a brief description of the project, and why the project meets the requirements for a Construction Notice.

AEP Ohio Transco is proposing the Bolton Station 138 kV Line Extension Project (the "Project"), located north of the intersection of Holt Road and Big Run South Road near the Grove City area in Jackson Township in Franklin County, Ohio. The Project consists of constructing an electric transmission line extension within new right-of-way (the "ROW"). The new electric transmission line is approximately 0.16 miles long and will tap into the nearby Beatty-Wilson 138 kV transmission line. The ROW is located on property owned by AEP Ohio Transco and South-Western City School District. Figure 1.1 in Appendix A shows the location of the Project. Figures 1.2 and 1.3 in Appendix A show the existing AEP Ohio Transco 138 kV transmission line location, and the ROW.

The Project meets the requirements for a CN because it is within the types of projects defined by 4906-1-01 Appendix A Application Requirement Matrix For Electric Power Transmission Lines. This item states:

(1) New construction, extension, or relocation of single or multiple circuit electric power transmission line(s), or upgrading existing transmission or distribution line(s) for operation at a higher transmission voltage, as follows:

(a) Line(s) not greater than 0.2 miles in length.

B(2) Statement of Need

If the proposed project is an electric power transmission line or gas or natural gas transmission line, a statement explaining the need for the proposed facility.

AEP Ohio Transco proposes to construct the Project to energize the proposed Bolton distribution substation from the existing Beatty-Wilson 138 kV transmission line located along the eastern edge of the Project.

CONSTRUCTION NOTICE FOR BOLTON STATION 138 KV LINE EXTENSION PROJECT

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B(3) Project Location

The applicant shall provide the location of the project in relation to existing or proposed lines and substations shown on an area system map of sufficient scale and size to show existing and proposed transmission facilities in the project area.

Figures 1.1, 1.2, and 1.4 in Appendix A show the location of the Project in relation to other existing AEP Ohio transmission lines. There is an existing 138 kV transmission line located along the eastern edge of the Project.

B(4) Alternatives Considered

The applicant shall describe the alternatives considered and reasons why the proposed location or route is best suited for the proposed facility. The discussion shall include, but not be limited to, impacts associated with socioeconomic, ecological, construction, or engineering aspects of the project.

The location of the Project requires the use of property owned by one adjacent landowner. Due to the proximity of the existing 138 kV transmission line and ROW to the location of the new Bolton distribution substation, the proposed location of the Project impacts the fewest number of adjacent landowners. No significant alternatives were studied as part of the Project.

B(5) Public Information Program

The applicant shall describe its public information program to inform affected property owners and tenants of the nature of the project and the proposed timeframe for project construction and restoration activities.

The Project will be located fully on the Property. AEP Ohio Transco has not developed a public information program but has worked closely with the owners of the Property during the development of the Project and the ROW acquisition process. Within seven days of filing this CN, AEP Ohio Transco will issue a public notice in a newspaper of general circulation in the Project area, which complies with the requirements of O.A.C. Section 4906-6-08(A)(1-6). A copy of the CN will be sent to applicable public officials concurrently with submittal to OPSB.

B(6) Construction Schedule

The applicant shall provide an anticipated construction schedule and proposed in-service date of the project.

Construction is planned to start in October 2017. The in-service date of the Project is expected to be in November 2017.

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B(7) Area Map

The applicant shall provide a map of at least 1:24,000 scale clearly depicting the facility with clearly marked streets, roads, and highways, and an aerial image.

Figure 1.1 included in Appendix A identifies the location of the Project on the USGS quadrangle map with coverage of the Project area. Figure 1.2 in Appendix A is an aerial map of the Project. To visit the Project from Columbus, take I-70 West to I-270 South to Georgesville Road. Take exit 5 to Holt Road. The Project is located along Holt Road between its intersection with Stranton Park Drive and Southwest Boulevard.

B(8) Property Agreements

The applicant shall provide a list of properties for which the applicant has obtained easements, options, and/or land use agreements necessary to construct and operate the facility and a list of the additional properties for which such agreements have not been obtained.

AEP Ohio Transco will obtain the ROW from the owner of the applicable portion of the Property (South-Western City School District). No other property easements, options, or land use agreements are necessary to construct the Project or operate the transmission line.

B(9) Technical Features

The applicant shall describe the following information regarding the technical features of the Project:

B(9)(a) Operating characteristics, estimated number and types of structures required, and right-of-way and/or land requirements.

The proposed Project involves the installation of approximately 820 feet (0.16 miles) of one 138 kv double circuit electric transmission line and five (5) steel structures standing at approximately 85 to 100 feet in height. The Project will utilize 1033, 500 kcmil 54/7 ACSR (Curlew) conductors, along with 2- 7#8 alumoweld shield wires. All dead-ends will utilize pier foundations with anchor cages.

B(9)(b) Electric and Magnetic Fields

For electric power transmission lines that are within one hundred feet of an occupied residence or institution, the production of electric and magnetic fields during the operation of the proposed electric power transmission line. The discussion shall include:

B(9)(b)(i) Calculated Electric and Magnetic Field Strength Levels

No occupied residences or institutions are located within 100 feet of the Project.

B(9)(b)(ii) Design Alternatives

A discussion of the applicant's consideration of design alternatives with respect to electric and magnetic fields and their strength levels, including alternate conductor configuration and phasing, tower height, corridor location, and right-of-way width.

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No occupied residences or institutions are located within 100 feet of the Project.

B(9)(b)(ii)(c) Project Cost

The estimated capital cost of the project.

The 2017 capital cost estimate for the Project is \$1,000,000.

B(10) Social and Economic Impacts

The applicant shall describe the social and ecological impacts of the project.

B(10)(a) Provide a brief, general description of land use within the vicinity of the proposed project, including a list of municipalities, townships, and counties affected.

The Project is located within Grove City in Jackson Township in Franklin County, Ohio. Figure 1.3 in Appendix A shows USDA land use categories for the Project area. Terrestrial habitat mapping in Appendix C (Figure 3) shows that the Project area has been developed and maintained as a fenced old field area in the western portion of the Project area and as a manicured mowed lawn within the eastern portion of the Project area. Additionally, one palustrine emergent wetland is present within the Project, but this wetland will not be impacted by construction activities associated with the Project.

There are currently 143 residences and one park, Windward Farm Park, within 1,000 feet of the centerline of the proposed Project. There are no cemeteries, wildlife management areas, or nature preserve lands within 1,000 feet of the centerline of the proposed Project.

Four schools have been identified to the south of the Project. Three of these schools are located within the South-Western City School District property: Holt Crossing Intermediate School, Central Crossing High School, and South-Western Career Academy. A fourth school, an elementary school, has been identified to the west of Holt Road on the South-Western City School District property. No churches have been identified within the vicinity of the Project.

Additionally, the Bolton Field Airport is located approximately 0.85 miles west of the Project (see Figure 1.1, Figure 1.2, and Figure 1.3 in Appendix A).

B(10)(b) Agricultural Land Information

Provide the acreage and a general description of all agricultural land, and separately all agricultural district land, existing at least sixty days prior to submission of the application within the potential disturbance area of the project.

The Project is not located within registered agricultural district lands, based on coordination with the Franklin County Auditor's Office. Additionally, the Project does not contain other agricultural row crop land (see Figure 1.3 in Appendix A and Figure 3 in Appendix C).

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B(10)(c) Archaeological and Cultural Resources

Provide a description of the applicant's investigation concerning the presence or absence of significant archeological or cultural resources that may be located within the potential disturbance area of the project, a statement of the findings of the investigation, and a copy of any document produced as a result of the investigation.

In March and November of 2016, AEP Ohio Transco's consultant completed Phase I archaeological investigations for the Project (see Appendix B). The field investigations were conducted in the footprint of the planned construction activity. No buildings or structures older than 50 years are being taken or directly impacted. Some of the Project area has been extensively disturbed.

The literature review that was conducted for the Project identified 41 archaeological sites within a one-mile radius of the proposed Project area. None of these sites were found to be within or immediately adjacent to the study area of the Project. Most of these sites are associated with larger surveys to the east of the Project. The Project area has not been the subject of any previous surveys. Two previously recorded architectural resources are located in the vicinity of the Project, but neither is within the Project area or within a direct line-of-sight to the Project.

The field investigations involved subsurface testing and visual inspection. There were no cultural resources identified within the Project area during the systematic Phase I investigations. Additionally, there are no buildings older than 50 years old involved within the Project area. No further work is considered to be necessary for the Project. For more information, see the Phase I Archaeological Survey Report included in Appendix B.

B(10)(d) Local, State, and Federal Agency Correspondence

Provide a list of the local, state, and federal governmental agencies known to have requirements that must be met in connection with the construction of the project, and a list of documents that have been or are being filed with those agencies in connection with siting and constructing the project.

A Notice of Intent will be filed with the Ohio Environmental Protection Agency for authorization of construction storm water discharges under General Permit OHC000004. AEP Ohio Transco will implement and maintain best management practices as outlined in the project-specific Storm Water Pollution Prevention Plan ("SWPPP") to minimize erosion and control sediment to protect surface water quality during storm events. Since none of the poles will be installed in any streams or wetlands, and no tree clearing will be required in forested wetlands (see Appendix C), the Project will not require a Clean Water Act Section 404 Permit from the U.S. Army Corps of Engineers or Pre-Construction Notification to the U.S. Army Corps of Engineers. Additionally, no structures or proposed access roads are located within a 100-year floodplain area. Therefore, no floodplain permitting is expected to be required for the Project. There are no other known local, state or federal requirements that must be met prior to commencement of the Project.

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B(10)(e) Threatened, Endangered, and Rare Species

Provide a description of the applicant's investigation concerning the presence or absence of federal and state designated species (including endangered species, threatened species, rare species, species proposed for listing, species under review for listing, and species of special interest) that may be located within the potential disturbance area of the project, a statement of the findings of the investigation, and a copy of any document produced as a result of the investigation.

The United States Fish and Wildlife Service (“USFWS”) *Federally Listed Species by Ohio Counties October 2015* (available at www.fws.gov/midwest/ohio/pdf/OhioTELlistByCountyOct2015.pdf) was reviewed to determine the threatened and endangered species currently known to occur in Franklin County. This USFWS publication listed the following threatened or endangered species as occurring in Franklin County: Indiana bat (*Myotis sodalis*; federally listed endangered), northern long-eared bat (*Myotis septentrionalis*; federally listed threatened), Scioto madtom (*Noturus trautmani*; federally listed endangered), clubshell (*Pleurobema clava*; federally listed endangered), northern riffleshell (*Epioblasma torulosa rangiana*; federally listed endangered), rayed bean (*Villosa fabalis*; federally listed endangered), snuffbox (*Epioblasma triquetra*; federally listed endangered), and rabbitsfoot (*Quadrula cylindrica*; federally listed threatened). As part of the ecological study completed for the Project, a coordination letter was submitted to the USFWS Ohio Ecological Services Field Office seeking an environmental review of the Project for potential impacts to threatened or endangered species. The April 15, 2016 response letter from USFWS (see Appendix C) indicated that the proposed Project is within the range of the Indiana bat and northern long-eared bat in Ohio but that if tree clearing takes between October 1 and March 31, they do not anticipate the Project having any adverse effects to these species or any other federally listed endangered, threatened, proposed, or candidate species.

Several state-listed threatened species, endangered species, and species of concern are listed by the Ohio Department of Natural Resources (“ODNR”) (<http://wildlife.ohiodnr.gov/portals/wildlife/pdfs/species%20and%20habitats/statelisted%20species/franklin.pdf>) as occurring, or potentially occurring in Franklin County. The Indiana bat, northern long-eared bat, and other state-listed species listed as occurring in Franklin County are addressed in detail in the Ecological Features Inventory Report included in Appendix C.

Coordination letters were submitted via email to the ODNR Division of Wildlife (“DOW”) Ohio Natural Heritage Program (“ONHP”) and the ODNR Office of Real Estate in March 2016, seeking a review of the proposed Project for potential impacts on state-listed and federally-listed threatened or endangered species. Correspondence received from ODNR’s DOW/OHNP and the ODNR Office of Real Estate were received in March and April 14, 2016, respectively (see Appendix C). In these letters, they indicated that the proposed Project area, and a one-mile radius around it, does not contain any known occurrences of state-listed species, federally-listed species, or rare species.

The response letter from the ODNR Office of Real Estate indicated that the Project is within the range of the Indiana bat (state and federally endangered). The ODNR indicated that, if suitable Indiana bat habitat is present within the Project area, they recommend that trees be conserved and any tree clearing that is

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unavoidable should occur only from October 1 through March 31. AEP Ohio Transco intends to complete tree clearing activities within the proposed Project area between October 1, 2016 and March 31, 2017. The response letter from the ODNR Office of Real Estate also indicated that the Project is within the range of the upland sandpiper (*Bartramia longicauda*; state endangered). The upland sandpiper is a state-listed endangered bird that nests in native grasslands, seeded grasslands, grazed and ungrazed pasture, hayfields, and grasslands established through the Conservation Reserve Program. The ODNR Office of Real Estate indicated that, if this type of habitat is to be impacted by the Project, construction should be avoided in this habitat during the April 15 to July 31 nesting season for this species. If this type of habitat will not be impacted, then they indicated the Project is not likely to impact this species. As outlined in the Ecological Features Inventory Report included in Appendix C, suitable nesting habitat for the upland sandpiper was not identified within the Project area. Additionally, the response letter from the ODNR Office of Real Estate indicated that the Project is within the range of several listed mussel and fish species; however, since no in-water work is proposed, the Project is not likely to impact these species.

B(10)(f) Areas of Ecological Concern

Provide a description of the applicant's investigation concerning the presence or absence of areas of ecological concern (including national and state forests and parks, floodplains, wetlands, designated or proposed wilderness areas, national and state wild and scenic rivers, wildlife areas, wildlife refuges, wildlife management areas, and wildlife sanctuaries) that may be located within the potential disturbance area of the project, a statement of the findings of the investigation, and a copy of any document produced as a result of the investigation.

Correspondence received from ODNR's DOW/OHNP and the ODNR Office of Real Estate (see Appendix C) indicated that they are unaware of any unique ecological sites, geologic features, animal assemblages, scenic rivers, state wildlife areas, nature preserves, parks or forests, national wildlife refuges, or other protected natural areas within a one-mile radius of the Project area. Correspondence received from the USFWS (see Appendix C) indicated that there are no federal wilderness areas, wildlife refuges or designated critical habitat within the vicinity of the Project area.

The Federal Emergency Management Agency ("FEMA") Flood Insurance Rate Map ("FIRM") was consulted to identify any floodplains/flood hazard areas that have been mapped for the proposed Project area. Specifically, map number 39049C0313K mapped the area of the proposed Project. Based on this map, the Project area is not within mapped FEMA floodplains (Figure 2, Appendix C). No floodplain permits will be required for this Project.

A review of the National Wetlands Inventory (NWI) database indicated that no wetlands were identified within the proposed Project area (See Appendix C). Locations of NWI-mapped wetlands in the vicinity of the Project are shown on Figure 2 in Appendix E. Wetland and stream delineation field surveys were completed by AEP Ohio Transco's consultant in March 2016. The results of the wetland and stream delineations are presented in the Ecological Features Inventory Report included in Appendix C. One palustrine emergent wetland totaling approximately 0.1 acres in size was identified within the Project area. The location of this delineated wetland is shown on Figure 2 in Appendix C. The ORAM score for the

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palustrine emergent wetland was 21, indicating the wetland was classified as a Category 1 wetland. Data forms and representative photographs of the wetland are provided in the Ecological Features Inventory Report in Appendix C. This emergent wetland is within the proposed new transmission line ROW; however, it is assumed that the wetland can be avoided and/or crossed with timber mats and, therefore, no permanent or temporary impacts to any wetlands are anticipated by construction of the Project. No streams or open water features were identified within the Project area; therefore, no permanent or temporary impacts to the stream channels are anticipated.

B(10)(g) Unusual Conditions

Provide any known additional information that will describe any unusual conditions resulting in significant environmental, social, health, or safety impacts.

To the best of AEP Ohio Transco's knowledge, no unusual conditions exist that would result in significant environmental, social, health or safety impacts.

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Appendix A Project Maps
December 13, 2016

Appendix A Project Maps

Figures 1.1, 1.2, 1.3, and 1.4

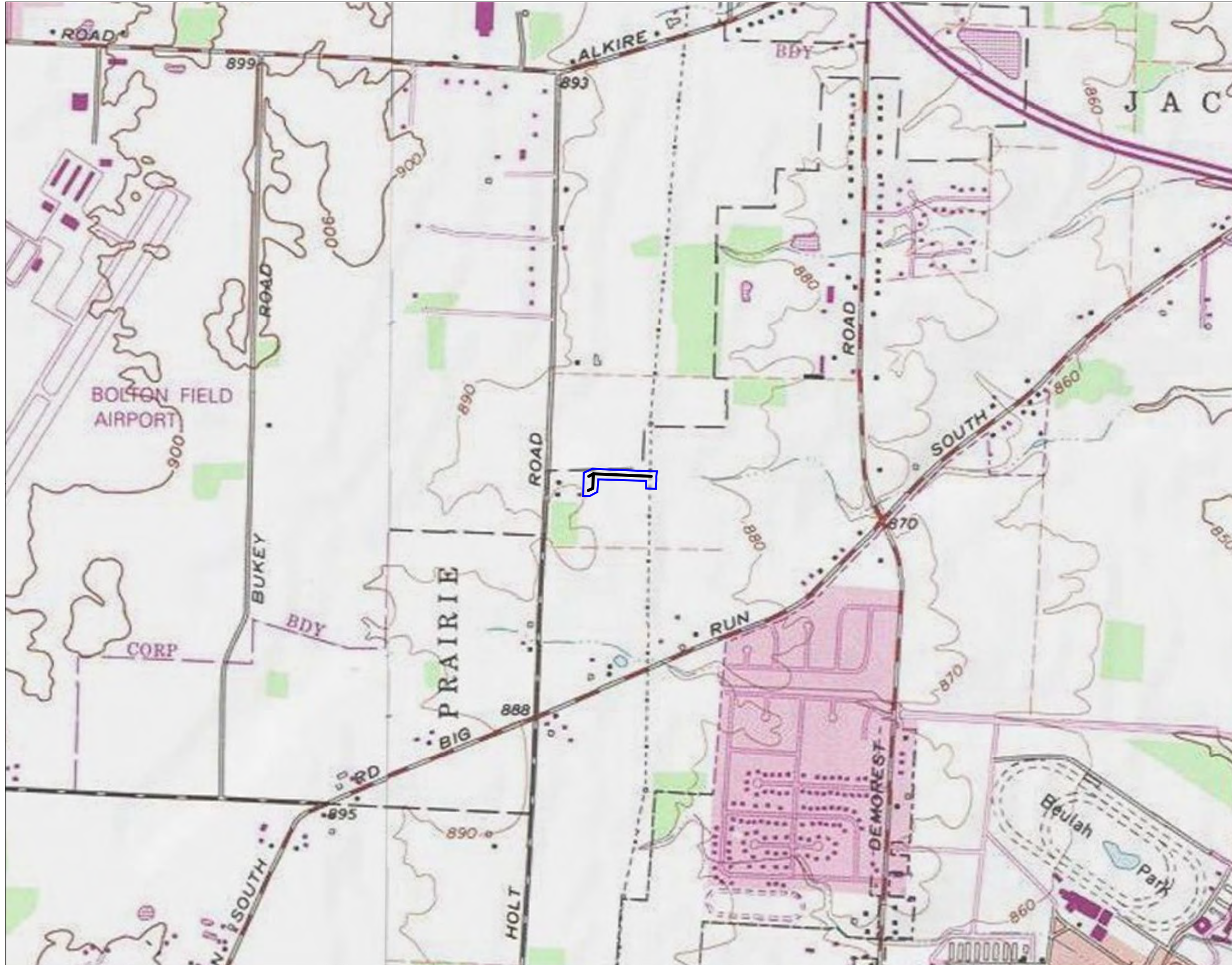


Figure No.

1.1

Title

Project Location Map

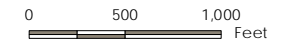
Client/Project

AEP Ohio Transmission Company, Inc.
Bolton Station
138 kV Line Extension Project

Project Location

Grove City,
Franklin County, Ohio



193704274
Prepared by HDB on 2016-11-23
Technical Review by MP on 2016-11-23
Independent Review by DJG on 2016-11-29



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Legend

-  Proposed 138 kV Transmission Line
-  Project Area



Notes

1. Coordinate System: NAD 1983 StatePlane Ohio South FIPS 3402 Feet
2. Data Sources Include: Stantec, AEP, NADS
3. Background: USGS 7.5' Topographic Quadrangles-Commerce Point (OH, 1966), Galloway (OH, 1979), Harrisburg (OH, 1974) and Southwest Columbus (OH, 1979)



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Figure No.

1.2

Title

Project Layout Map

Client/Project

AEP Ohio Transmission Company, Inc.
Bolton Station
138 kV Line Extension Project

Project Location

Grove City,
Franklin County, Ohio

193704274

Prepared by HDB on 2016-11-23
Technical Review by MP on 2016-11-23
Independent Review by DJG on 2016-11-29

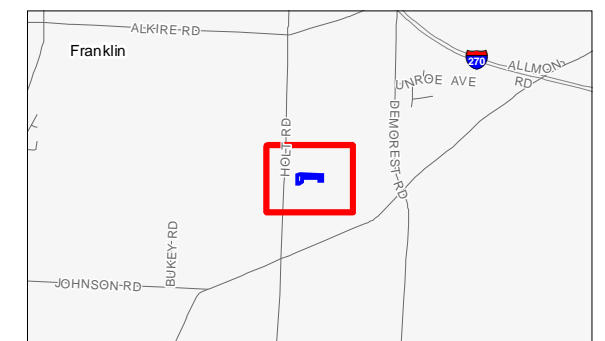
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Feet

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Legend

- Proposed Structure
- Proposed 138 kV Transmission Line
- Project Area
- Existing 138 kV Transmission Line



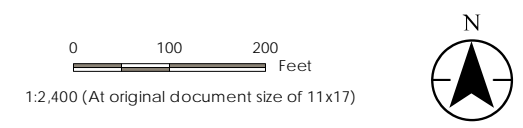
Notes

1. Coordinate System: NAD 1983 StatePlane Ohio South FIPS 3402 Feet
2. Data Sources Include: Stantec, AEP, NADS, FEMA, USGS, USFWS
3. Orthophotography: 2015 ESRI World Imagery





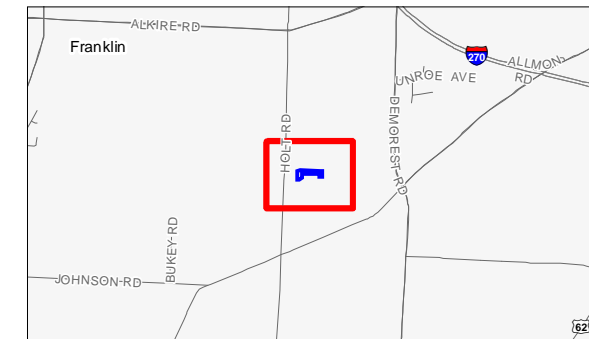
Figure No. 1.3
 Title Land Use Map
 Client/Project AEP Ohio Transmission Company, Inc.
 Bolton Station
 138 kV Line Extension Project
 Project Location Grove City, Franklin County, Ohio
 Prepared by HDB on 2016-11-23
 Technical Review by MP on 2016-11-23
 Independent Review by DJG on 2016-11-29



Legend

○ Proposed Structure	Land Use
⚡ Proposed 138 kV Transmission Line	Open Water
▭ Project Area	Developed, Open Space
⚡ Existing 138 kV Transmission Line	Developed, Low Intensity
■ Residence	Developed, Medium Intensity
🏫 School	Developed, High Intensity
⛪ Cemetery*	Deciduous Forest
🏠 Church*	Cultivated Crops

*No feature within map extents.

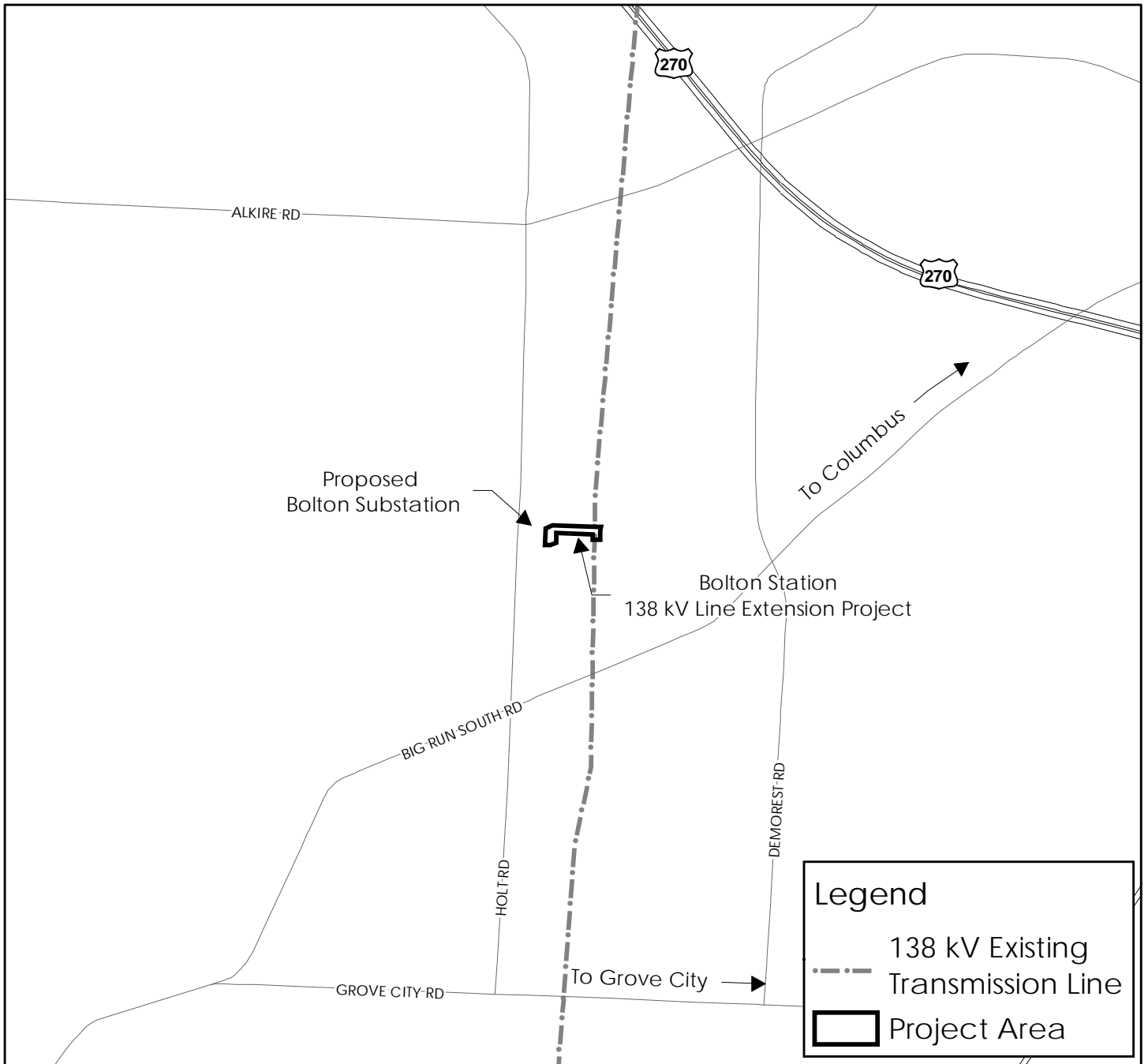


- Notes**
1. Coordinate System: NAD 1983 StatePlane Ohio South FIPS 3402 Feet
 2. Data Sources Include: Stantec, AEP, NADS, USGS
 3. Orthophotography: 2015 ESRI World Imagery



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Figure 1.4 - Concept Map



CONSTRUCTION NOTICE FOR BOLTON STATION 138 KV LINE EXTENSION PROJECT

Appendix B Phase I Archaeological Investigations
December 13, 2016

Appendix B Phase I Archaeological Investigations



**Phase I Cultural Resources Investigations for the Bolton
Station 138kV Extension Project in Jackson Township,
Franklin County, Ohio**

Ryan J. Weller

November 30, 2016

1395 West Fifth Ave.
Columbus, OH 43212
Phone: 614.485.9435
Fax: 614.485.9439
Website: www.wellercrm.com

**Phase I Cultural Resources Investigations for the Bolton
Station 138kV Extension Project in Jackson Township,
Franklin County, Ohio**

By

Ryan J. Weller

Submitted By:

**Weller & Associates, Inc.
1395 West Fifth Ave.
Columbus, OH 43212
Phone: 614.485. 9435 Fax: 614.485. 9439**

Prepared For:

**Stantec Consulting, Inc.
11687 Lebanon Road
Cincinnati, OH 45241**

Lead Agency:

Ohio Power Siting Board



Ryan J. Weller, P.I.

November 30, 2016

Abstract

In November of 2016, Weller & Associates, Inc. conducted a Phase I Cultural Resources Investigations for the Bolton Station 138kV Extension Project in Jackson Township, Franklin County, Ohio. This work was conducted Stantec Consulting, Inc. for submittal to American Electric Power and the Ohio Power Siting Board. The cultural resource management work involved in this project involved an archaeological survey and a limited architectural survey. These investigations did not result in the identification of any cultural resources.

The electric line extension will be approximately 213 m (700 ft) long and is located on the east side of Holt Road approximately 0.75 miles south of Alkire Road. It extends a short distance that connects the proposed Bolton Station to an existing 138kV electric line. This is an area that is a mixture of residential housing and urban developments. Some of the area has been extensively disturbed from former construction activities affected by an immediately adjacent modern housing development and sports facility. The project area consists of a grass covered lots, which are both manicured and left fallow.

The literature review that was conducted for this project identified 41 archaeological sites within the study area. None of these are situated within or immediately adjacent to the project area as most are associated with larger surveys to the east of the project. The western part of the project area has been the subject of previous investigations (Nelson and Schaefer 2016); they encountered disturbances and no cultural resources. Only two previously recorded architectural resources are within the study area, but are not within a direct line-of-sight to the project.

The fieldwork for this project was conducted on November 29, 2016. The investigations did not result in the identification of archaeological sites. In addition, no architectural resources 50 years or older are within a direct line-of-sight of the project. It is the opinion of Weller that no historic properties will be affected by the project. No further work is recommended for this undertaking.

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List of Tables

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Introduction

In November of 2016, Weller & Associates, Inc. conducted a Phase I Cultural Resources Investigations for the Bolton Station 138kV Extension Project in Jackson Township, Franklin County, Ohio (Figures 1-3). This work was conducted Stantec Consulting, Inc. for submittal to American Electric Power (AEP) and the Ohio Power Siting Board (OPSB). These investigations were conducted to identify any sites or properties and to evaluate them in a manner that is reflective of Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. 470 [36 CFR 800]). This report summarizes the results of the archaeological fieldwork and an intensive literature review. The report format and design is similar to that established in *Archaeology Guidelines* (Ohio State Historic Preservation Office [SHPO] 1994).

The electric line extension will be approximately 213 m (700 ft) long and is located on the east side of Holt Road approximately 0.75 miles south of Alkire Road. It extends a short distance that connects the proposed Bolton Station to an existing 138kV electric line. The project has a corridor that is 30.5 m (100 ft) wide. The purpose of the project is to connect the new Bolton Station to the electric grid.

The fieldwork for this project was conducted on November 29, 2016. Chad Porter completed the literature review on November 29, 2016. Craig Schaefer and Brittany Vance completed the field investigations. Ryan Weller served as the Principal Investigator, Project Manager, and completed the compilation of this report. The figures were completed by Alex Thomas.

Environmental Setting

Climate

Franklin County, not unlike all of Ohio, has a continental climate, with hot and humid summers and cold winters. About 97 cm (38 in) of precipitation fall annually on the county with the average monthly precipitation about 8 cm (3.2 in). January, February and October are the driest months, while July is the wettest month for Franklin County (United States Department of Agriculture, Soil Conservation Service [USDA, SCS] 1980).

Physiography, Relief, and Drainage

Franklin County is located within several physiographic regions such as the Columbus Lowland region of Ohio, Galion Glaciated Low Plateau to the east, and the Darby Plain, which is found on the western portion of the county. The Columbus Lowland region includes the project area and relative lowlands that are surrounded in all directions by higher terrain and land that gently slopes towards the Scioto River (Brockman 1998). Hellbranch Run, a tributary of Darby Creek, which drains into the Scioto River, drains the project area.

Geology

Franklin County is comprised of late Wisconsinan-age till. The soils are predominately clayey with a higher concentration of lime. Below the till are lacustrine deposits that cap Paleozoic-aged rocks. The eastern portion of the county contains some shales and loess deposits. The underlying bedrock of the project area can be of either Mississippian- or Devonian-age material as it is at the interface of these two formations Brockman 1998; USDA, SCS 1980).

Soils

The project area is within the Crosby-Kokomo association, which are common to upland glacial till plains. This association generally consists of deep, nearly level and gently sloping, somewhat poorly drained and very poorly drained soils mainly in medium textured and moderately fine textured glacial till. There are two specific soils involved in this area (Table 1). There is nothing remarkable or unique pertaining to the soils that are present within the project area. These soils reflect flat to very gently undulating conditions (United States Department of Agriculture, Soils Conservation Service (USDA, SCS) 1980 (2016)].

Soil Symbol	Soil Name	% Slope	Location
CrA,CrB	Crosby silt loam	0-2,2-6	Upland Till Plains slight rises
Ko	Kokomo silty clay loam	-0-	Upland Till Plains low areas

Flora

There is great floral diversity in Ohio. This diversity is relative to the soils and the terrain that generally includes the till plain, lake plain, terminal glacial margins, and unglaciated plateau (Forsyth 1970). Three major glacial advances, including the Kansan, Illinoian, and Wisconsinan, have affected the landscape of Ohio. The effects of the Wisconsin glaciation are most pronounced and have affected more than half of the state (Pavey et al. 1999).

Southwestern Ohio from about Cincinnati to Bellefontaine east to the Scioto River historically contained a very diverse floral landscape. This is an area where moraines from three glacial episodes are prevalent (Pavey et al. 1999). Forests in this area include elm-ash swamp, beech, oak-sugar maple, mixed mesophytic, prairie grasslands, mixed oak, and bottomland hardwoods (Core 1966; Gordon 1966, 1969). These forest types are intermingled with prairies being limited to the northern limits of this area mostly in Clark and Madison Counties.

Generally, beech forests are the most common variety through Ohio and could be found in all regions. Oak and hickory forests dominated the southeastern Ohio terrain and were found with patchy frequency across most of northern Ohio. Areas that were formerly open prairies and grasslands are in glacial areas, but are still patchy. These are

in the west central part of the state. Oak and sugar maple forests occur predominantly along the glacial terminal moraine. Elm-ash swamp forests are prevalent in glaciated areas including the northern and western parts of Ohio (Gordon 1966; Pavey et al. 1999).

The project is located at the boundary of a mixed oak forestation and mixed mesophytic forest regime (Gordon 1966).

Fauna

The upland forest zone offered a diversity of mammals to the prehistoric diet. This food source consisted of white-tailed deer, black bear, Eastern cottontail rabbit, opossum, a variety of squirrels, as well as other less economically important mammals. Several avian species were a part of the upland prehistoric diet as well (i.e. wild turkey, quail, ruffed grouse, passenger pigeon, etc.). The lowland zone offered significant species as well. Raccoon, beaver, and muskrat were a few of the mammals, while wood duck and wild goose were the economically important birds. Fishes and shellfish were also an integral part of the prehistoric diet. Ohio muskellunge, yellow perch, white crappie, long nose gar, channel catfish, pike, and sturgeon were several of the fish, whereas, the Ohio naiad mollusc, butterfly's shell, long solid, common bullhead, knob rockshell, and cod shell were the major varieties of shellfish. Reptiles and amphibians, such as several varieties of snakes, frogs, and turtles, were also part of the prehistoric diet (Trautman 1981; Lafferty 1979; Mahr 1949).

Cultural Setting

The first inhabitants of Ohio were probably unable to enter this land until the ice sheets of the Wisconsin glacier melted around 14,000 B.C. Paleoindian sites are considered rare due to the age of the sites and the effects of land altering activities such as erosion. Such sites were mostly used temporarily and thus lack the accumulation of human occupational deposits that would have been created by frequent visitation. Paleoindian artifact assemblages are characteristic of transient hunter-gatherer foraging activity and subsistence patterns. In Ohio, major Paleoindian sites have been documented along large river systems and near flint outcrops in the Unglaciated Plateau (Cunningham 1973). Otherwise, Paleoindian sites in the glaciated portions of Ohio are encountered infrequently and are usually represented by isolated finds or open air scatters.

The Paleoindian period is characterized by tool kits and gear utilized in hunting Late Pleistocene megafauna and other herding animals including but not limited to short-faced bear, barren ground caribou, flat-headed peccary, bison, mastodon, giant beaver (Bamforth 1988; Brose 1994; McDonald 1994). Groups have been depicted as being mobile and nomadic (Tankersley 1989); artifacts include projectile points, multi-purpose unifacial tools, burins, graters, and spokeshaves (Tankersley 1994). The most diagnostic artifacts associated with this period are fluted points that exhibit a groove or channel positioned at the base to facilitate hafting. The projectiles dating from the late Paleoindian period generally lack this trait; however, the lance form of the blade is retained and is often distinctive from the following Early Archaic period (Justice 1987).

The Archaic period has been broken down into three sub-categories, including the Early, Middle, and Late Archaic. During the Early Archaic period (ca. 10,000-8000 B.P.), the environment was becoming increasingly arid as indicated by the canopy (Shane 1987). This period of dryness allowed for the exploitation of areas that were previously inaccessible or undesirable. The Early Archaic period does not diverge greatly from the Paleoindian regarding the type of settlement. Societies still appear to be largely mobile with reliance on herding animals (Fitting 1963). For these reasons, Early Archaic artifacts can be encountered in nearly all settings throughout Ohio. Tool diversity increased at this time including hafted knives that are often re-sharpened by the process of beveling the utilized blade edge and intense basal grinding (Justice 1987). There is a basic transition from lance-shaped points to those with blades that are triangular. Notching becomes a common hafting trait. Another characteristic trait occurring almost exclusively in the Early and Middle Archaic periods is basal bifurcation and large blade serrations. Tool forms begin to vary more and may be a reflection of differential resource exploitation. Finished tools from this period can include bifacial knives, points, drills/perforators, utilized flakes, and scrapers.

The Middle Archaic period (8000-6000 B.P.) is poorly known or understood in archaeological contexts within Ohio. Some (e.g., Justice 1987) regard small bifurcate points as being indicative of this period. Ground stone artifacts become more prevalent at this time. Other hafted bifaces exhibit large side notches with squared bases, but this same trait can extend back to the Paleoindian period. The climate at this time is much like that of the modern era. Middle Archaic period subsistence tended to be associated with small patch foraging that involved a consistent need for mobility with a shift towards stream valleys (Stafford 1994). Sites encountered from this time period throughout most of Ohio tend to be lithic scatters or isolated finds. The initial appearance of regional traits may be apparent at this time.

The Late Archaic period in Ohio (ca 6000-3000 B.P.) diverges from the previous periods in many ways. Preferred locations within a regional setting appear to have been repeatedly occupied. The more intensive and repeated occupations often resulted in the creation of greater social and material culture complexity. The environment at this time is warmer and drier. Most elevated landforms in northeastern Ohio have yielded Archaic artifacts (Prufer and Long 1986: 7), and the same can be stated for the remainder of Ohio.

Various artifacts are diagnostic of the Late Archaic period. Often, burial goods provide evidence that there was some long-distance movement of materials, while lithic materials used in utilitarian assemblages are often from a local chert outcrop. There is increased variation in projectile point styles that may reflect regionalism. Slate was often used in the production of ornamental artifacts. Ground and polished stone artifacts reached a high level of development. This is evident in such artifacts as grooved axes, celts, bannerstones, and other slate artifacts.

It is during the Terminal Archaic period (ca 3500-2500 B.P.) that extensive and deep burials are encountered. Cultural regionalism within Ohio is evident in the presence

of Crab Orchard (southwest), Glacial Kame (northern), and Meadowood (central to Northeastern). Along the Ohio River, intensive occupations have been placed within the Riverton phase. Pottery makes its first appearance during the Terminal Late Archaic.

The Early Woodland period (ca 3000-2100 B.P.) in Ohio is often associated with the Adena culture and the early mound builders (Dragoo 1976). Early and comparably simple geometric earthworks first appear with mounds more spread across the landscape. Pottery at this time is thick and tempered with grit, grog, or limestone; however, it becomes noticeably thinner towards the end of the period. There is increased emphasis on gathered plant resources, including maygrass, chenopodium, sunflower, and squash. Habitation sites have been documented that include structural evidence. Houses that were constructed during this period were circular, having a diameter of up to 18.3 m (Webb and Baby 1963) and often with paired posts (Cramer 1989). Artifacts dating from this period include leaf-shaped blades with parallel to lobate hafting elements, drilled slate pieces, ground stone, thick pottery, and increased use of copper. Early Woodland artifacts can be recovered from every region of Ohio.

The Middle Woodland period (ca 2200-1600 B.P.) is often considered to be equivalent with the Hopewell culture. The largest earthworks in Ohio date from this period. There is dramatic increase in the appearance of exotic materials that appear most often in association with earthworks and burials. Artifacts representative of this period include thinner, grit-tempered pottery, dart-sized projectile points (Lowe Flared, Steuben, Snyders, and Chesser) [Justice 1987], exotic materials (mica, obsidian, and marine shell, etc.). The points are often thin, bifacially beveled, and have flat cross sections. There seems to have been a marked increase in the population as well as increased levels of social organization. Middle Woodland sites seem to reflect a seasonal exploitation of the environment. There is a notable increase in the amount of Eastern Agricultural Complex plant cultigens, including chenopodium, knotweed, sumpweed, and little barley. This seasonal exploitation may have followed a scheduled resource extraction year in which the populations moved camp several times per year, stopping at known resource extraction loci. Middle Woodland land use appears to center on the regions surrounding earthworks (Dancey 1992; Pacheco 1996); however, there is evidence of repeated occupation away from earthworks (Weller 2005a). Household structures at this time vary with many of them being squares with rounded corners (Weller 2005a). Exotic goods are often attributed to funerary activities associated with mounds and earthworks. Utilitarian items are more frequently encountered outside of funerary/ritual contexts. The artifact most diagnostic of this period is the bladelet, a prismatic and thin razor-like tool, and bladelet cores. Middle Woodland remains are more commonly recovered from central Ohio south and lacking from most areas in the northern and southeastern part of the state.

The Late Woodland period (ca A.D. 400-900) is distinct from the previous period in several ways. There appears to be a population increase and a more noticeable aggregation of groups into formative villages. The villages are often positioned along large streams, on terraces, and were likely seasonally occupied (Cowan 1987). This increased sedentism was due in part to a greater reliance on horticultural garden plots, much more so than in the preceding Middle Woodland period. The early Late Woodland

groups were growing a wide variety of crop plants that are collectively referred to as the Eastern Agricultural Complex. These crops included maygrass, sunflower, and domesticated forms of goosefoot and sumpweed. This starch and protein diet was supplemented with wild plants and animals. Circa A.D. 800 to 1000, populations adopted maize agriculture, and around this same time, shell-tempered ceramics appear. Other technological innovations and changes during this period included the bow and arrow and changes in ceramic vessel forms.

The Late Prehistoric period (ca A.D. 1000-1550) is distinctive from former periods. The Cole complex (ca A.D. 1000-1300) has been identified in central and south central Ohio. Sites that have been used to define the Cole complex include the W.S. Cole (33DL11), Ufferman (33DL12), and Decco (33DL28) sites along the Olentangy; the Zencor Village site, located along the Scioto River in southern Franklin County; and the Voss Mound site (33FR52), located along the Big Darby Creek in southwestern Franklin County. It has been suggested that this cultural manifestation developed out of the local Middle Woodland cultures and may have lasted to be contemporaneous with the Late Prehistoric period (Barkes 1982; Baby and Potter 1965; Potter 1966). Cole is a poorly defined cultural complex as its attributes are a piecemeal collection gathered from various sites. Some have suggested that it may be associated with the Fort Ancient period (Pratt and Bush 1981). Artifacts recovered from sites considered as Cole include plain and cordmarked pottery, triangular points, Raccoon Notched points, chipped slate discs, rectangular gorgets, and chipped stone celts. The vessels often have a globular form with highly variable attributes and rim treatment. There have been few structures encountered from this period, but those that have are typically rounded or circular (Pratt and Bush 1981; Weller 2005b).

Monongahela phase sites date to the Late Prehistoric to Contact period in eastern Ohio. Monongahela sites are typically located on high bottomlands near major streams, on saddles between hills, and on hilltops, sometimes a considerable distance from water sources. Most of these sites possessed an oval palisade, which surrounded circular house patterns. Burials of adults are usually flexed and burial goods are typically ornamental. A large variety of stone and bone tools are found associated with Monongahela sites. Monongahela pottery typically is plain or cordmarked with a rounded base and a gradually in-sloping shoulder area. Few Euro-American trade items have been found at Monongahela sites (Drooker 1997).

Protohistoric to Settlement

By the mid-1600s, French explorers traveled through the Ohio country as trappers, traders, and missionaries. They kept journals about their encounters and details of their travels. These journals are often the only resource historians have regarding the early occupants of seventeenth century Ohio. The earliest village encountered by the explorers in 1652 was a Tionontati village located along the banks of Lake Erie and the Maumee River. Around 1670, it is known that three Shawnee villages were located along the confluence of the Ohio River and the Little Miami River. Because of the Iroquois Wars, which continued from 1641-1701, explorers did not spend much time in the Ohio

region, and little else is known about the natives of Ohio during the 1600s. Although the Native American tribes of Ohio may have been affected by the outcome of the Iroquois Wars, no battles occurred in Ohio (Tanner 1987).

French explorers traveled extensively through the Ohio region from 1720-1761. During these expeditions, the locations of many Native American villages were documented. In 1751, a Delaware village known as Maguck existed near present-day Chillicothe. In 1758, a Shawnee town known as 'Lower Shawnee 2' existed at the same location. The French also documented the locations of trading posts and forts, which were typically established along the banks of Lake Erie or the Ohio River (Tanner 1987).

While the French were establishing a claim to the Ohio country, many Native Americans were also entering new claims to the region. The Shawnee were being forced out of Pennsylvania because of English settlement along the eastern coast. The Shawnee created a new headquarters at Shawnee Town, which was located at the mouth of the Scioto River. This headquarters served as a way to pull together many of the tribes which had been dispersed because of the Iroquois Wars (Tanner 1987).

Warfare was bound to break out as the British also began to stake claims in the Ohio region by the mid-1700s. The French and Indian War (1754-1760) affected many Ohio Native Americans; however, no battles were recorded in Ohio (Tanner 1987). Although the French and Indian War ended in 1760, the Native Americans continued to fight against the British explorers. In 1764, Colonel Henry Bouquet led a British troop from Fort Pitt, Pennsylvania to near Zanesville, Ohio.

In 1763, the Seven Years' War fought between France and Britain, also known as the French and Indian War ended with The Treaty of Paris. In this Peace of Paris, the French ceded their claims in the entire Ohio region to the British. When the American Revolution ended with the Second Treaty of Paris in 1783, the Americans gained the entire Ohio region from the British; however, they designated Ohio as Indian Territory. Native Americans were not to move south of the Ohio River but Americans were encouraged to head west into the newly acquired land to occupy and govern it (Tanner 1987).

By 1783, Native Americans had established fairly distinct boundaries throughout Ohio. The Shawnee tribes generally occupied southwest Ohio, while the Delaware tribes stayed in the eastern half of the state. Wyandot tribes were located in north-central Ohio, and Ottawa tribes were restricted to northeast Ohio. There was also a small band of Mingo tribes in eastern Ohio along the Ohio River, and there was a band of Mississauga tribes in northeastern Ohio along Lake Erie. The Shawnee people had several villages within Ross County along the Scioto River (Tanner 1987). Although warfare between tribes continued, it was not as intense as it had been in previous years. Conflicts were contained because boundaries and provisions had been created by earlier treaties.

In 1795, the Treaty of Greenville was signed as a result of the American forces defeat of the Native American forces at the Battle of Fallen Timbers. This allocated the

northern portion of Ohio to the Native Americans, while the southern portion was opened for Euro-American settlement. Although most of the battles which led up to this treaty did not occur in Ohio, the outcome resulted in dramatic fluctuations in the Ohio region. The Greenville Treaty line was established, confining all Ohio Native Americans to northern Ohio, west of the Tuscarawas River (Tanner 1987).

Ohio Native Americans were again involved with the Americans and the British in the War of 1812. Unlike the previous wars, many battles were fought in the Ohio country during the War of 1812. By 1815, peace treaties began to be established between the Americans, British, and Native Americans. The Native Americans lost more and more of their territory in Ohio. By 1830, the Shawnee, Ottawa, Wyandot, and Seneca were the only tribes remaining in Ohio. These tribes were contained on reservations in northwest Ohio. By the middle 1800s, the last of the Ohio Native Americans signed treaties and were removed from the Ohio region.

Franklin County History

Lucas Sullivant was the first American to survey Franklin County and was the first settler to build a cabin in August 1797 in what would become Franklinton, later the state capitol of Columbus. Sullivant laid out the town of Franklinton that same year. Much of Central Ohio was part of the U.S. Military Lands which also included the Refugee Tract. The state legislature organized Franklin County on April 30, 1803, although its borders changed many times until 1857. The county's name honors Benjamin Franklin. Most of the early settlers of Franklin County were from Pennsylvania, Virginia, and New England. Immigrants in the late 1800s and early 1900s were mostly Germans, Italians, and Russians (Lee 1892; Martin 1858; Rickey 1983; Vesey 1901).

Early settlers of Franklin County settled in rich bottomlands of the Scioto and Olentangy Rivers, the Big Darby, Walnut, Big Walnut, and Alum Creeks. Most of the earliest settlers were farmers producing corn, wheat, cattle, and hogs. Agriculture remained a major source of income for the county until 1930 when urban expansion began. Today, with Columbus engulfing most of the county, little land is agricultural (Dodds 1952; Lee 1892; Martin 1858; Moore 1930; Rickey 1983).

During the late eighteenth century and early nineteenth century, trade with the Native Americans was an important source of income. The town of Worthington was platted and settled by 1803 and Dublin in 1818. In 1811, Worthington had a woolen mill. By 1815, several gristmills, sawmills, and distilleries were scattered along the rivers and streams throughout Franklin County. The work on the National Road (today US 40), which passes through Franklin County, came to completion in 1834. The Ohio Canal that passed through the southern portion of the county also operated in the 1830s. In 1850, the Columbus and Xenia Railroad was the first railroad to pass through the county. All of these modes of transportation improved the economy of the region and stimulated the development of businesses and industries during the late 1800s and early 1900s. The improved transportation and economy led to population increases and as a result, new

communities developed as the old ones expanded. Between 1830 and 1880, the following communities grew up in Franklin County: Groveport, Grove City, New Albany, Reynoldsburg, Hilliard, Gahanna, and Lockbourne (Ohio History Central 2005; Dodds 1952; Lee 1892; Martin 1858; Moore 1930; Rickey 1983; Vesey 1901).

Various businesses and industries developed in the different communities of Franklin County during the late 1800s. Columbus was the center of the economic development. After becoming the state capital in 1812, state political agencies also located in the city. Quarries were an important early industry for the county. In 1880, a sandstone quarry opened near Blacklick followed by the Marble Cliff quarries in Norwich Township. The twentieth century has seen the continued development and expansion of Columbus and surrounding urban areas. Suburbs dominate the landscape and the construction of freeways such as I-70, I-71, I-270, I-670, US 33, SR 161, SR 315, and SR 104 has eased the flow of transportation to and from the capitol further stimulating their growth (Ohio History Central 2005; Dodds 1952; Moore 1930; Rickey 1983; Vesey 1901).

Jackson Township History

After the Battle of New Orleans ended in January of 1815, General Andrew Jackson was a national hero. Mere months later, the people of Franklin County, in partitioning Franklin Township, decided to honor the general by naming the new township of fertile farmland after him (Taylor 1909). This township is located in the southwestern corner of Franklin County inside Pleasant Township and west of the Scioto River.

This organization took place just ten years after the first settler came to Jackson Township, a man named Hugh Grant. Grant was initially from Maryland, moved to Pittsburgh, married, and in 1804, the Grant family moved to Ross County. Soon after, Grant purchased 450 acres in what was to become Jackson Township. Without knowing the proper location of his parcel, he set out to settle his property in 1805 and ended up squatting along the Scioto River for which he was killed. His widow had the 450-acre plot located and lived there until 1836 (Moore 1930, Taylor 1909, and Vesey 1901). A vast list of other early settlers can be found in any of the formal histories of the area.

The early industry was typical of the region. Mills and farms, general stores and blacksmiths as well as a drain tile factory and a wagon factory had emerged by the middle point of the century (Moore 1930 and Vesey 1901). The first school was developed the year of township organization. However, the first post office did not appear until W. F. Breck laid out Grove City in the summer of 1852. Mr. Breck was the first postmaster of Jackson Township, holding the office until 1857. The Scioto Chapel was the first church erected in 1812 with several other churches of equally several denominations raising formal worship sites in the late 1850s and into the 1860s. Dr. Joseph Bullen arrived in 1852 and worked as the township's first physician until his death in 1878 (Caldwell 1872, Taylor 1909, Moore 1930, and Vesey 1901).

The Township grew slowly, partially because of a lack of decent roadways. This was true until several good turnpikes arrived and facilitated easier travel and stimulated trade. Cottage Mille Pike, Franklin Pike, Harrisburg Pike, and Jackson Pike were these early roads (Moore 1930, and Vesey 1901). Business transportation also grew with the addition of the Baltimore & Ohio Railroad. Another step of the unhurried growth was the move of the Columbus Driving Park Association from Columbus to Grove City after the turn of the 20th Century. This park provided horse and dog races which bolstered the local economy despite making a “change in its tone” (Moore 1930).

Eventually, with the development of modern roadways and particularly I-71, Jackson Township began to grow more rapidly. Farming is still a productive venture in much of the township; however, this mode of existence is quickly giving way to multiple unit housing developments, industry, and commerce. This area is contained within the urban sprawl of Columbus, as Columbus pushes ever closer to the Pickaway County line.

Research Design

The purpose of a Phase I survey is to locate and identify cultural resources that will be affected by the planned development. This includes archaeological deposits as well as architectural properties that are older than 50 years. Once these resources are identified and sampled, they are evaluated for their eligibility or potential eligibility to the NRHP. These investigations are directed to answer or address the following questions:

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

Archaeological Field Methods

The survey conducted within the project area was generally limited to subsurface testing methods and visual inspection. Surface collection was not possible due to the ground cover.

Shovel test unit excavation. Shovel test units were placed at 15-m intervals where adequate surface visibility was lacking. These measure 50 cm on a side and are excavated to 5 cm below the topsoil/subsoil interface. Individual shovel test units are documented regarding their depth, content and color (Munsell). Wherever sites are encountered, Munsell color readings are taken per shovel test unit. All of the undisturbed soil matrices from shovel test units are screened using .6 cm hardware mesh. When sites are identified, additional shovel test units will be excavated at 7.5 m intervals extending on grid and in the four cardinal directions from the positive locations.

Visual inspection. Locations where cultural resources were not expected, such as disturbed areas and wet areas were walked over and visually inspected. Rodent-

exposed areas were inspected for cultural materials. This method was used to verify the absence or likelihood of any cultural resources being located in these areas. This method was also utilized to document the general terrain and the surrounding area.

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

Curation

No artifacts 50 years of age or older were recovered during the investigations. Notes and maps affiliated with this project will be maintained at Weller & Associates, Inc. files.

Literature Review

The literature review study area is defined as a 1.6 km (1.0 mile) radius from the boundaries of the project (Figure 2 and 3). In conducting the literature review, the following resources were consulted at SHPO, at the Columbus Metropolitan Library, at the State Library of Ohio, and from various online resources:

- 1) *An Archaeological Atlas of Ohio* (Mills 1914);
- 2) SHPO United States Geological Survey (USGS) 7.5' series topographic maps;
- 3) Ohio Archaeological Inventory (OAI) files;
- 4) Ohio Historic Inventory (OHI) files;
- 5) National Register of Historic Places (NRHP) files;
- 6) SHPO consensus Determinations of Eligibility (DOE) files;
- 7) SHPO CRM/contract archaeology files; and
- 8) Franklin County atlases, histories, historic USGS 15' series topographic map(s), and current USGS 7.5' series topographic map(s).

A review of *An Archaeological Atlas of Ohio* (Mills 1914) was conducted. The *Atlas* did not indicate any resources situated within or adjacent to the project area.

A review of the SHPO topographic maps indicated that there are 41 sites located in the study area. None of these sites are located within or immediately adjacent to the project area (Table 2). All but one of these sites are associated with prehistoric period activity; the remaining site consists of a historic period scatter.

Table 2. Previously Recorded OAIs Located in the Study Radius.			
Site # (33...)	Site Type	Temporal Association	In or Adjacent to Project
FR0887	Lithic scatter	Late Archaic	NO
FR0888	Lithic scatter	Late Archaic	NO

Site # (33...)	Site Type	Temporal Association	In or Adjacent to Project
FR0889	Lithic scatter	Unassigned Archaic	NO
FR0890	Lithic scatter	Unassigned Prehistoric	NO
FR0891	Lithic scatter	Early Archaic	NO
FR0892	Lithic scatter	Unassigned Prehistoric	NO
FR0893	Lithic scatter	Unassigned Prehistoric	NO
FR0894	Lithic scatter	Unassigned Prehistoric	NO
FR0895	Lithic scatter	Paleo, Early Archaic, Middle Woodland	NO
FR0896	Lithic scatter	Late Woodland	NO
FR0897	Lithic scatter	Unassigned Prehistoric	NO
FR0898	Lithic scatter	Unassigned Prehistoric	NO
FR0899	Lithic scatter	Unassigned Prehistoric	NO
FR0900	Lithic scatter	Unassigned Prehistoric	NO
FR0901	Lithic scatter	Early Archaic, Late Archaic, Early Woodland	NO
FR0902	Lithic scatter	Unassigned Prehistoric	NO
FR0903	Lithic scatter	Unassigned Prehistoric	NO
FR0904	Lithic scatter	Unassigned Prehistoric	NO
FR0905	Lithic scatter	Unassigned Prehistoric	NO
FR0906	Lithic scatter	Unassigned Prehistoric	NO
FR0907	Lithic scatter	Unassigned Prehistoric	NO
FR0908	Lithic scatter	Unassigned Prehistoric	NO
FR0909	Lithic scatter	Unassigned Prehistoric	NO
FR0910	Lithic scatter	Unassigned Prehistoric	NO
FR0911	Lithic scatter	Unassigned Prehistoric	NO
FR0912	Lithic scatter	Unassigned Prehistoric	NO
FR0913	Lithic scatter	Unassigned Prehistoric	NO
FR0914	Lithic scatter	Unassigned Prehistoric	NO
FR0915	Lithic scatter	Unassigned Prehistoric	NO
FR0920	Lithic scatter	Unassigned Prehistoric	NO
FR0922	Lithic scatter	Unassigned Prehistoric	NO
FR0923	Lithic scatter	Unassigned Prehistoric	NO
FR0924	Lithic scatter	Late Woodland	NO
FR2170	Lithic scatter	Middle Archaic	NO
FR2171	Lithic scatter	Unassigned Prehistoric	NO
FR2172	Lithic scatter	Unassigned Prehistoric	NO
FR2173	Lithic scatter	Unassigned Prehistoric	NO
FR2175	Lithic scatter	Unassigned Prehistoric	NO
FR2177	Historic scatter	Unassigned Prehistoric	NO
FR2350	Lithic scatter	Unassigned Prehistoric	NO
FR2351	Lithic scatter	Unassigned Prehistoric	NO

The Ohio Historic Inventory (OHI) files indicated that there are two previously recorded OHI resources in the study area. These include OHI FRA0192226 (Charles Koogler Farm) and FRA0866528 (Egelhoff Residence). Neither of these are within or near the project area, however, the Charles Koogler Farm was confirmed to be demolished as it was at the location of the high school campus to the south of the project.

A review of the NRHP files and determination of eligibility files indicated that there are no resources within or adjacent the project area. There are no such resources located in the study area.

There have been six CRM surveys conducted within the study area, none of which incorporated any aspects of the current project (Nelson and Schaefer 2016; Aument 1991; Duerksen et al. 2000; Weller 2003; Wagner 2012; Aument and Gibbs 1991). Four of the surveys conducted were Phase I level reconnaissance surveys. Aument and Gibbs (1991) conducted a Phase III data recovery on sites 33FR895 and 33FR901. Neither of these are within or near the current project area. Nelson and Shaefer (2016) completed a Phase I survey in this area in the spring of 2016. This survey accounts for the western part of the current project area and did not result in the identification of any cultural materials.

Cartographic/atlas resources were reviewed for the project area. According to the *Atlas of Franklin County, Ohio* (Lake 1875) the property was owned by Elisa White. The USGS *1900 West Columbus 15 Minute Series (Topographic)* map indicates no buildings within the project area (Figure 4). There are no residences indicated in the vicinity of the project area.

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 area had been previously surveyed?
- 2) Are cultural resources likely to be identified in the project area?

The project area has not been the subject of any previous investigations. There are several CRM surveys conducted within the study area. Mills (1914) did not identify sites in the immediate vicinity. Given the location of the project area and the presence of sites in the neighboring and similar terrain, it seems plausible that archaeological deposits might be present if there are intact soils. The western part of the project was previously investigated and there were no cultural materials identified. Similar findings are expected from this project.

Fieldwork Results

The field investigations for this project were conducted on November 29, 2016 (Figures 5-9). The weather was amiable for the completion of the fieldwork, temperatures were in the mid-50s Fahrenheit. The project area includes an approximately 213 m (700 ft) long corridor that is 30.5 m (100 ft) wide. There were two factors that inhibited the sampling during the investigation including inundated conditions and significant disturbance in portions of the project area. The field investigations involved the excavation of shovel probes as the area was found to be severely disturbed. These investigations did not result in the identification of any cultural materials.

The project area is located on the East side of Holt Road approximately 0.75 miles South of Alkire Road in Jackson Township, Franklin County. Flat terrain dominates the project area as it appears to have been altered/graded for drainage purposes and to be able to mow it. The subject area is a small, narrow corridor that is bordered by a housing development to the north. Much of the disturbances appear to be affiliated with construction activity from the abutting housing development as well as grading for the school property. Grove City High School compound is located to the east of the project area. The existing electric line corridor that is being ‘tapped’ to Bolton Station in a north-south manner through the athletic area. The ground surface is overgrown with mixed grasses and with portions contain standing water.

Some shovel probes revealed disturbance of mixed topsoil and subsoil with aberrant gravel content (Figure 5); gravels are atypical of the soils in this area. The testing did not identify any intact topsoil/subsoil situations. The topsoil in this area is typically dark grayish brown (10YR4/2) silt loam with an underlying subsoil that is a dark yellowish brown (10YR4/6) silty clay loam; however, the soils that were identified are mottled strong brown (7.5YR4/4) clay loam and dark grayish brown (10YR4/2) silt loam and lack strata (Figure 9). There were two transects excavated in the project area with each being 7.5 m (25 ft) on either side of the centerline. The testing identified areas with standing water or disturbance; there were 16 shovel probes excavated during these investigations (Figure 5). This is not uncommon considering the two soil types in the project area that are classified as somewhat poorly drained to poorly drained. All the testing proved negative for cultural material and no sites were identified.

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.

The undertaking includes the construction/installation of a small tap line from the proposed Bolton Station to an existing electric line. The project corridor is about 213 m (700 ft) long and is nearly surrounded by modern developments. The construction of this tap line is not considered to have an effect on any historic properties.

The surroundings include several modern developments. A high school campus is located directly to the south and east (including the ballfields), to the west is the Bolton Field Airport, and to the north is all modern residential developments. Upon verification in the field, it was found that no architectural resources that are 50 years of age or older are located within a direct line-of-sight of the project. The undertaking is considered to have no affect on historic properties as it has: 1) a limited area of potential effect; 2) the

construction activity is consistent with the surroundings; 3) there are no historic properties within what is regarded as being the area of potential effect (Figure 2).

Recommendations

In November of 2016, Weller & Associates, Inc. conducted a Phase I Cultural Resources Investigations for the Bolton Station 138kV Extension Project in Jackson Township, Franklin County, Ohio. These investigations involved visual inspection and subsurface methods of investigation. Some of the area has been extensively disturbed in places from former construction activities related to abutting, modern developments. These investigations did not result in the identification of archaeological sites. It is the opinion of Weller that no historic properties will be affected by the project. No further work is recommended for this undertaking.

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Figures

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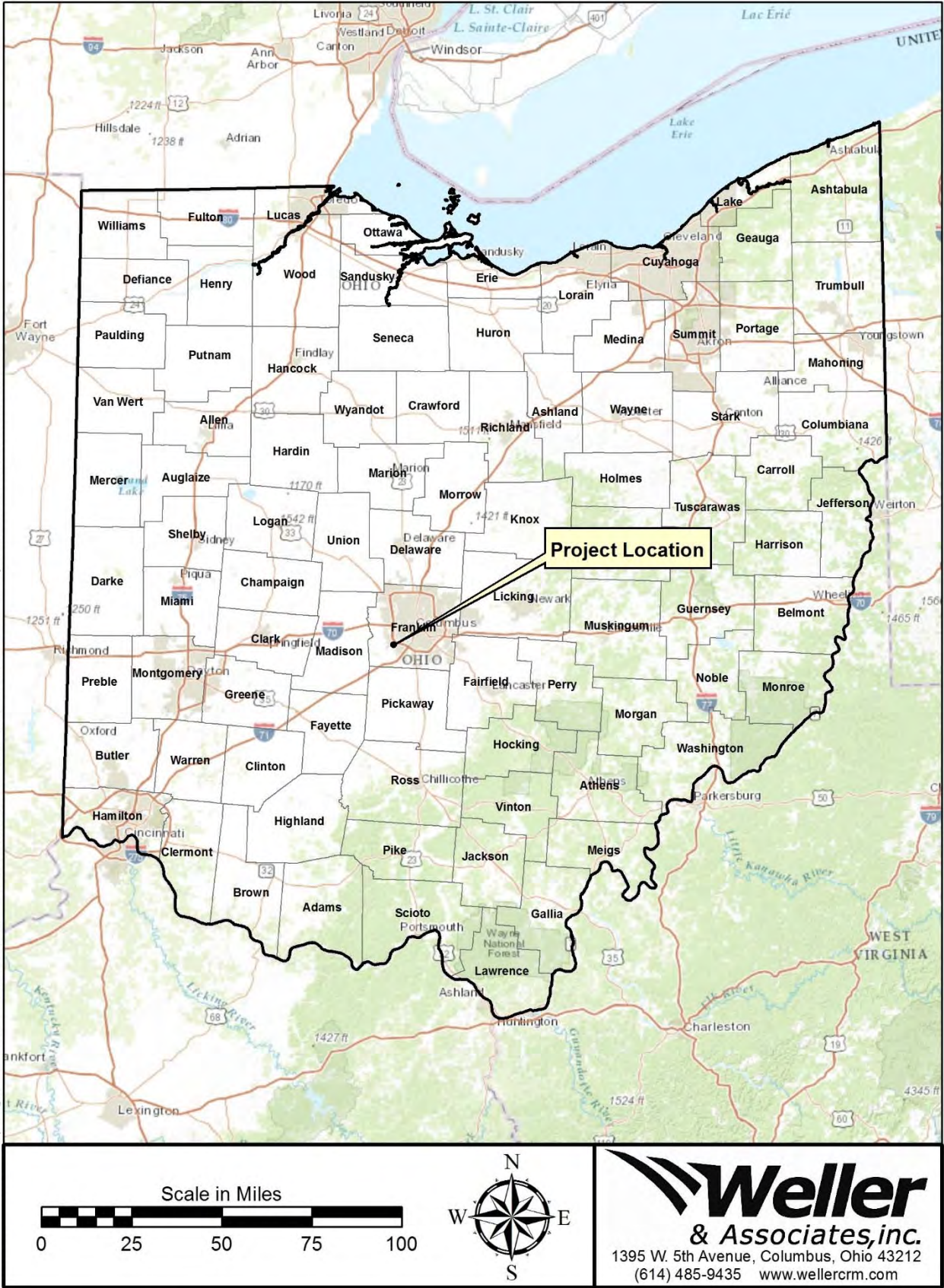


Figure 1. Political map of Ohio showing the approximate location of the project.

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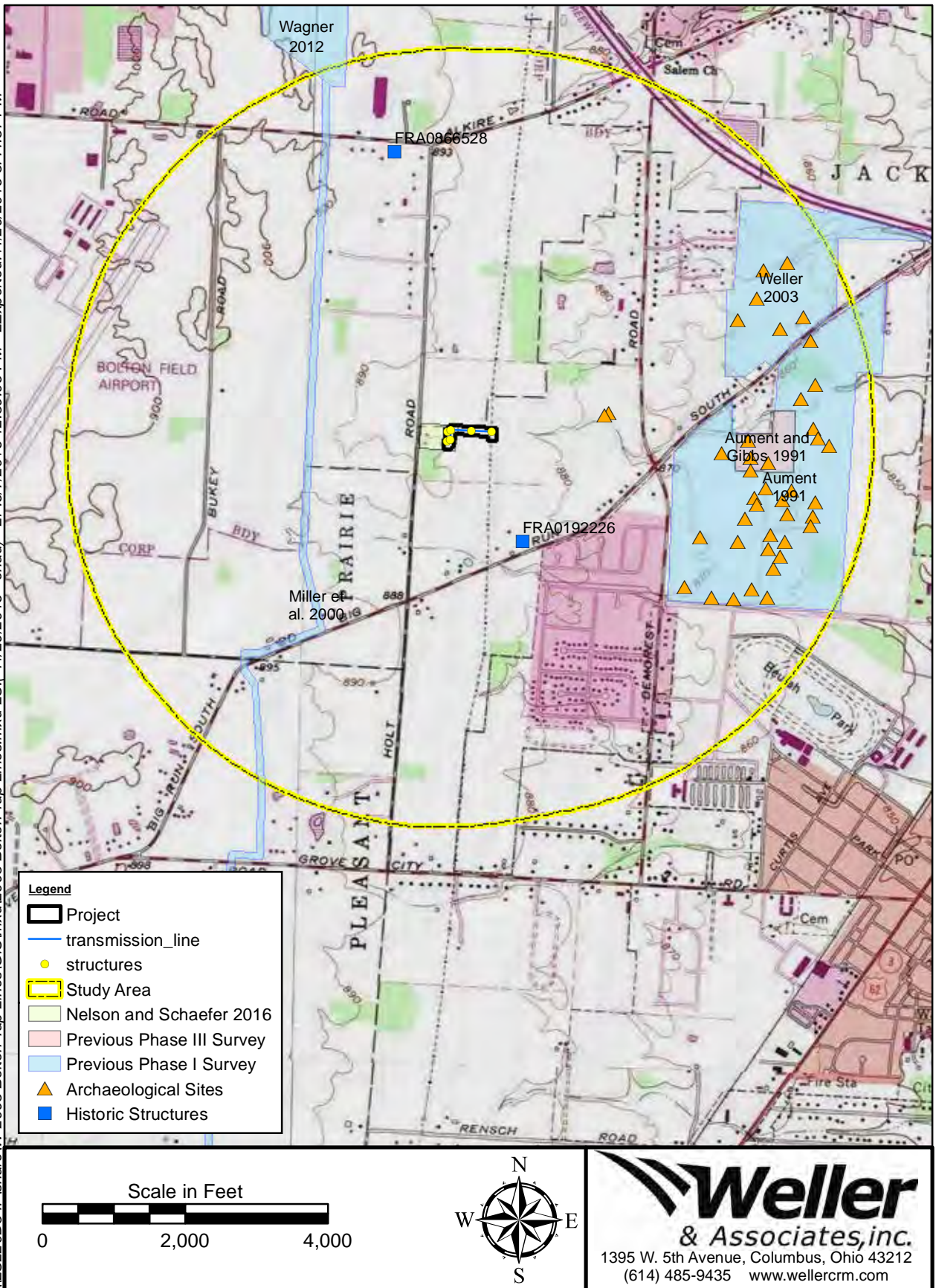


Figure 2. Portion of the USGS 1995 South Columbus, Ohio 7.5 Minute Series (Topographic) map indicating the location of the project.

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Figure 4. Portion of the USGS 1923 West Columbus, Ohio 15 Minute Series (Topographic) map indicating the approximate location of the project.

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Figure 5. Fieldwork map indicating the results of testing and photo orientations.



Figure 6. View of the disturbed eastern portion of the project.



Figure 7. View of the shovel probed eastern portion of the project.



Figure 8. View of the shovel probed western portion of the project.



Figure 9. A typical disturbed shovel probe from the project.



**Phase I Cultural Resources Investigations for the Proposed 1.6
ha (4 ac) Bolton Station, Jackson Township,
Franklin County, Ohio**

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March 4, 2016

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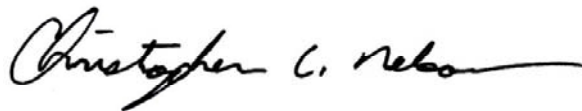
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March 4, 2016

i. Abstract

In March of 2016, Weller & Associates, Inc. conducted a Phase I cultural resource management investigation for the proposed Bolton Station located in Jackson Township, Franklin County, Ohio. This work was conducted under contract with American Electric Power for submittal to the Ohio Power Siting Board. The cultural resource management work involved in this project involved an archaeological survey and a limited architectural survey.

The station will be constructed on an approximate 1.6 ha (4 ac) parcel located on the east side of Holt Road approximately 0.75 miles south of Alkire Road. Some of the area has been extensively disturbed from former construction and demolition activities related to two former houses and their associated outbuildings that once stood on the property. The parcel consists of a grass covered lot, which has become fallow since disuse of the lot as residential property.

The literature review that was conducted for this project identified 41 archaeological sites within the study area. None of these are situated within or immediately adjacent to the project area as most are associated with larger surveys to the east of the project. The project area has not been the subject of any previous surveys. Only two previously recorded architectural resources are within the study area, but are not within a direct line-of-sight to the project.

The fieldwork for this project was conducted on March 2, 2016. The investigations did not result in the identification of archaeological sites. In addition, no architectural resources 50 years or older are within a direct line-of-sight of the project. It is the opinion of Weller that no historic properties will be affected by the project. No further work is recommended for this undertaking.

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Introduction

In March of 2016, Weller & Associates, Inc. (Weller) conducted a Phase I cultural resource management investigation for the proposed Bolton Station located in Jackson Township, Franklin County, Ohio (Figures 1-3). This work was conducted under contract with American Electric Power (AEP) for submittal to the Ohio Power Siting Board (OPSB). These investigations were conducted to identify any sites or properties and to evaluate them in a manner that is reflective of Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. 470 [36 CFR 800]). This report summarizes the results of the archaeological fieldwork and an intensive literature review. The report format and design is similar to that established in *Archaeology Guidelines* (Ohio State Historic Preservation Office [SHPO] 1994).

The station will be constructed on an approximate 1.6 ha (4 ac) parcel located on the east side of Holt Road approximately 0.75 miles south of Alkire Road. Some of the area has been extensively disturbed from former construction and demolition activities related to two former houses and their associated outbuildings that once stood on the property. The parcel consists of a grass covered lot, which has become fallow since disuse of the lot as residential property.

The fieldwork for this project was conducted on March 2, 2016. Christopher Nelson completed the literature review on March 2, 2016. Nelson, Craig Schaefer, Brittany Vance, and Matt Sanders completed the field investigations. Nelson served as the Principal Investigator.

Environmental Setting

Climate

Franklin County, not unlike all of Ohio, has a continental climate, with hot and humid summers and cold winters. About 97 cm (38 in) of precipitation fall annually on the county with the average monthly precipitation about 8 cm (3.2 in). January, February and October are the driest months, while July is the wettest month for Franklin County (United States Department of Agriculture, Soil Conservation Service [USDA, SCS] 1980).

Physiography, Relief, and Drainage

Franklin County is located within several physiographic regions such as the Columbus Lowland region of Ohio, Galion Glaciated Low Plateau to the east, and the Darby Plain, which is found on the western portion of the county. The Columbus Lowland region includes the project area and relative lowlands that are surrounded in all directions by higher terrain and land that gently slopes towards the Scioto River (Brockman 1998). Hellbranch Run, a tributary of Darby Creek, which drains into the Scioto River, drains the project area.

Geology

Franklin County is comprised of late Wisconsinan-age till. The soils are predominately clayey with a higher concentration of lime. Below the till are lacustrine deposits that cap Paleozoic-aged rocks. The eastern portion of the county contains some shales and loess deposits. The underlying bedrock of the project area can be of either Mississippian- or Devonian-age material as it is at the interface of these two formations Brockman 1998; USDA, SCS 1980).

Soils

The project area is within the Crosby-Kokomo association, which are common to upland glacial till plains. This association generally consists of deep, nearly level and gently sloping, somewhat poorly drained and very poorly drained soils mainly in medium textured and moderately fine textured glacial till. There are two specific soils involved in this area (Table 1). There is nothing remarkable or unique pertaining to the soils that are present within the project area. These soils reflect flat to very gently undulating conditions (United States Department of Agriculture, Soils Conservation Service (USDA, SCS) 1980 (2015)].

Soil Symbol	Soil Name	% Slope	Location
CrA	Crosby silt loam	0-2	Upland Till Plains slight rises
Ko	Kokomo silty clay loam	-0-	Upland Till Plains low areas

Flora

There is great floral diversity in Ohio. This diversity is relative to the soils and the terrain that generally includes the till plain, lake plain, terminal glacial margins, and unglaciated plateau (Forsyth 1970). Three major glacial advances, including the Kansan, Illinoian, and Wisconsinan, have affected the landscape of Ohio. The effects of the Wisconsin glaciation are most pronounced and have affected more than half of the state (Pavey et al. 1999).

Southwestern Ohio from about Cincinnati to Bellefontaine east to the Scioto River historically contained a very diverse floral landscape. This is an area where moraines from three glacial episodes are prevalent (Pavey et al. 1999). Forests in this area include elm-ash swamp, beech, oak-sugar maple, mixed mesophytic, prairie grasslands, mixed oak, and bottomland hardwoods (Core 1966; Gordon 1966, 1969). These forest types are intermingled with prairies being limited to the northern limits of this area mostly in Clark and Madison Counties.

Generally, beech forests are the most common variety through Ohio and could be found in all regions. Oak and hickory forests dominated the southeastern Ohio terrain and were found with patchy frequency across most of northern Ohio. Areas that were formerly open prairies and grasslands are in glacial areas, but are still patchy. These are

in the west central part of the state. Oak and sugar maple forests occur predominantly along the glacial terminal moraine. Elm-ash swamp forests are prevalent in glaciated areas including the northern and western parts of Ohio (Gordon 1966; Pavey et al. 1999).

The project is located at the boundary of a mixed oak forestation and mixed mesophytic forest regime (Gordon 1966).

Fauna

The upland forest zone offered a diversity of mammals to the prehistoric diet. This food source consisted of white-tailed deer, black bear, Eastern cottontail rabbit, opossum, a variety of squirrels, as well as other less economically important mammals. Several avian species were a part of the upland prehistoric diet as well (i.e. wild turkey, quail, ruffed grouse, passenger pigeon, etc.). The lowland zone offered significant species as well. Raccoon, beaver, and muskrat were a few of the mammals, while wood duck and wild goose were the economically important birds. Fishes and shellfish were also an integral part of the prehistoric diet. Ohio muskellunge, yellow perch, white crappie, long nose gar, channel catfish, pike, and sturgeon were several of the fish, whereas, the Ohio naiad mollusc, butterfly's shell, long solid, common bullhead, knob rockshell, and cod shell were the major varieties of shellfish. Reptiles and amphibians, such as several varieties of snakes, frogs, and turtles, were also part of the prehistoric diet (Trautman 1981; Lafferty 1979; Mahr 1949).

Cultural Setting

The first inhabitants of Ohio were probably unable to enter this land until the ice sheets of the Wisconsin glacier melted around 14,000 B.C. Paleoindian sites are considered rare due to the age of the sites and the effects of land altering activities such as erosion. Such sites were mostly used temporarily and thus lack the accumulation of human occupational deposits that would have been created by frequent visitation. Paleoindian artifact assemblages are characteristic of transient hunter-gatherer foraging activity and subsistence patterns. In Ohio, major Paleoindian sites have been documented along large river systems and near flint outcrops in the Unglaciated Plateau (Cunningham 1973). Otherwise, Paleoindian sites in the glaciated portions of Ohio are encountered infrequently and are usually represented by isolated finds or open air scatters.

The Paleoindian period is characterized by tool kits and gear utilized in hunting Late Pleistocene megafauna and other herding animals including but not limited to short-faced bear, barren ground caribou, flat-headed peccary, bison, mastodon, giant beaver (Bamforth 1988; Brose 1994; McDonald 1994). Groups have been depicted as being mobile and nomadic (Tankersley 1989); artifacts include projectile points, multi-purpose unifacial tools, burins, graters, and spokeshaves (Tankersley 1994). The most diagnostic artifacts associated with this period are fluted points that exhibit a groove or channel positioned at the base to facilitate hafting. The projectiles dating from the late

Paleoindian period generally lack this trait; however, the lance form of the blade is retained and is often distinctive from the following Early Archaic period (Justice 1987).

The Archaic period has been broken down into three sub-categories, including the Early, Middle, and Late Archaic. During the Early Archaic period (ca. 10,000-8000 B.P.), the environment was becoming increasingly arid as indicated by the canopy (Shane 1987). This period of dryness allowed for the exploitation of areas that were previously inaccessible or undesirable. The Early Archaic period does not diverge greatly from the Paleoindian regarding the type of settlement. Societies still appear to be largely mobile with reliance on herding animals (Fitting 1963). For these reasons, Early Archaic artifacts can be encountered in nearly all settings throughout Ohio. Tool diversity increased at this time including hafted knives that are often re-sharpened by the process of beveling the utilized blade edge and intense basal grinding (Justice 1987). There is a basic transition from lance-shaped points to those with blades that are triangular. Notching becomes a common hafting trait. Another characteristic trait occurring almost exclusively in the Early and Middle Archaic periods is basal bifurcation and large blade serrations. Tool forms begin to vary more and may be a reflection of differential resource exploitation. Finished tools from this period can include bifacial knives, points, drills/perforators, utilized flakes, and scrapers.

The Middle Archaic period (8000-6000 B.P.) is poorly known or understood in archaeological contexts within Ohio. Some (e.g., Justice 1987) regard small bifurcate points as being indicative of this period. Ground stone artifacts become more prevalent at this time. Other hafted bifaces exhibit large side notches with squared bases, but this same trait can extend back to the Paleoindian period. The climate at this time is much like that of the modern era. Middle Archaic period subsistence tended to be associated with small patch foraging that involved a consistent need for mobility with a shift towards stream valleys (Stafford 1994). Sites encountered from this time period throughout most of Ohio tend to be lithic scatters or isolated finds. The initial appearance of regional traits may be apparent at this time.

The Late Archaic period in Ohio (ca 6000-3000 B.P.) diverges from the previous periods in many ways. Preferred locations within a regional setting appear to have been repeatedly occupied. The more intensive and repeated occupations often resulted in the creation of greater social and material culture complexity. The environment at this time is warmer and drier. Most elevated landforms in northeastern Ohio have yielded Archaic artifacts (Prufer and Long 1986: 7), and the same can be stated for the remainder of Ohio.

Various artifacts are diagnostic of the Late Archaic period. Often, burial goods provide evidence that there was some long-distance movement of materials, while lithic materials used in utilitarian assemblages are often from a local chert outcrop. There is increased variation in projectile point styles that may reflect regionalism. Slate was often used in the production of ornamental artifacts. Ground and polished stone artifacts reached a high level of development. This is evident in such artifacts as grooved axes, celts, bannerstones, and other slate artifacts.

It is during the Terminal Archaic period (ca 3500-2500 B.P.) that extensive and deep burials are encountered. Cultural regionalism within Ohio is evident in the presence of Crab Orchard (southwest), Glacial Kame (northern), and Meadowood (central to Northeastern). Along the Ohio River, intensive occupations have been placed within the Riverton phase. Pottery makes its first appearance during the Terminal Late Archaic.

The Early Woodland period (ca 3000-2100 B.P.) in Ohio is often associated with the Adena culture and the early mound builders (Dragoo 1976). Early and comparably simple geometric earthworks first appear with mounds more spread across the landscape. Pottery at this time is thick and tempered with grit, grog, or limestone; however, it becomes noticeably thinner towards the end of the period. There is increased emphasis on gathered plant resources, including maygrass, chenopodium, sunflower, and squash. Habitation sites have been documented that include structural evidence. Houses that were constructed during this period were circular, having a diameter of up to 18.3 m (Webb and Baby 1963) and often with paired posts (Cramer 1989). Artifacts dating from this period include leaf-shaped blades with parallel to lobate hafting elements, drilled slate pieces, ground stone, thick pottery, and increased use of copper. Early Woodland artifacts can be recovered from every region of Ohio.

The Middle Woodland period (ca 2200-1600 B.P.) is often considered to be equivalent with the Hopewell culture. The largest earthworks in Ohio date from this period. There is dramatic increase in the appearance of exotic materials that appear most often in association with earthworks and burials. Artifacts representative of this period include thinner, grit-tempered pottery, dart-sized projectile points (Lowe Flared, Steuben, Snyders, and Chesser) [Justice 1987], exotic materials (mica, obsidian, and marine shell, etc.). The points are often thin, bifacially beveled, and have flat cross sections. There seems to have been a marked increase in the population as well as increased levels of social organization. Middle Woodland sites seem to reflect a seasonal exploitation of the environment. There is a notable increase in the amount of Eastern Agricultural Complex plant cultigens, including chenopodium, knotweed, sumpweed, and little barley. This seasonal exploitation may have followed a scheduled resource extraction year in which the populations moved camp several times per year, stopping at known resource extraction loci. Middle Woodland land use appears to center on the regions surrounding earthworks (Dancey 1992; Pacheco 1996); however, there is evidence of repeated occupation away from earthworks (Weller 2005a). Household structures at this time vary with many of them being squares with rounded corners (Weller 2005a). Exotic goods are often attributed to funerary activities associated with mounds and earthworks. Utilitarian items are more frequently encountered outside of funerary/ritual contexts. The artifact most diagnostic of this period is the bladelet, a prismatic and thin razor-like tool, and bladelet cores. Middle Woodland remains are more commonly recovered from central Ohio south and lacking from most areas in the northern and southeastern part of the state.

The Late Woodland period (ca A.D. 400-900) is distinct from the previous period in several ways. There appears to be a population increase and a more noticeable aggregation of groups into formative villages. The villages are often positioned along large streams, on terraces, and were likely seasonally occupied (Cowan 1987). This

increased sedentism was due in part to a greater reliance on horticultural garden plots, much more so than in the preceding Middle Woodland period. The early Late Woodland groups were growing a wide variety of crop plants that are collectively referred to as the Eastern Agricultural Complex. These crops included maygrass, sunflower, and domesticated forms of goosefoot and sumpweed. This starch and protein diet was supplemented with wild plants and animals. Circa A.D. 800 to 1000, populations adopted maize agriculture, and around this same time, shell-tempered ceramics appear. Other technological innovations and changes during this period included the bow and arrow and changes in ceramic vessel forms.

The Late Prehistoric period (ca A.D. 1000-1550) is distinctive from former periods. The Cole complex (ca A.D. 1000-1300) has been identified in central and south central Ohio. Sites that have been used to define the Cole complex include the W.S. Cole (33DL11), Ufferman (33DL12), and Decco (33DL28) sites along the Olentangy; the Zencor Village site, located along the Scioto River in southern Franklin County; and the Voss Mound site (33FR52), located along the Big Darby Creek in southwestern Franklin County. It has been suggested that this cultural manifestation developed out of the local Middle Woodland cultures and may have lasted to be contemporaneous with the Late Prehistoric period (Barkes 1982; Baby and Potter 1965; Potter 1966). Cole is a poorly defined cultural complex as its attributes are a piecemeal collection gathered from various sites. Some have suggested that it may be associated with the Fort Ancient period (Pratt and Bush 1981). Artifacts recovered from sites considered as Cole include plain and cordmarked pottery, triangular points, Raccoon Notched points, chipped slate discs, rectangular gorgets, and chipped stone celts. The vessels often have a globular form with highly variable attributes and rim treatment. There have been few structures encountered from this period, but those that have are typically rounded or circular (Pratt and Bush 1981; Weller 2005b).

Monongahela phase sites date to the Late Prehistoric to Contact period in eastern Ohio. Monongahela sites are typically located on high bottomlands near major streams, on saddles between hills, and on hilltops, sometimes a considerable distance from water sources. Most of these sites possessed an oval palisade, which surrounded circular house patterns. Burials of adults are usually flexed and burial goods are typically ornamental. A large variety of stone and bone tools are found associated with Monongahela sites. Monongahela pottery typically is plain or cordmarked with a rounded base and a gradually in-sloping shoulder area. Few Euro-American trade items have been found at Monongahela sites (Drooker 1997).

Protohistoric to Settlement

By the mid-1600s, French explorers traveled through the Ohio country as trappers, traders, and missionaries. They kept journals about their encounters and details of their travels. These journals are often the only resource historians have regarding the early occupants of seventeenth century Ohio. The earliest village encountered by the explorers in 1652 was a Tionontati village located along the banks of Lake Erie and the Maumee River. Around 1670, it is known that three Shawnee villages were located along

the confluence of the Ohio River and the Little Miami River. Because of the Iroquois Wars, which continued from 1641-1701, explorers did not spend much time in the Ohio region, and little else is known about the natives of Ohio during the 1600s. Although the Native American tribes of Ohio may have been affected by the outcome of the Iroquois Wars, no battles occurred in Ohio (Tanner 1987).

French explorers traveled extensively through the Ohio region from 1720-1761. During these expeditions, the locations of many Native American villages were documented. In 1751, a Delaware village known as Maguck existed near present-day Chillicothe. In 1758, a Shawnee town known as 'Lower Shawnee 2' existed at the same location. The French also documented the locations of trading posts and forts, which were typically established along the banks of Lake Erie or the Ohio River (Tanner 1987).

While the French were establishing a claim to the Ohio country, many Native Americans were also entering new claims to the region. The Shawnee were being forced out of Pennsylvania because of English settlement along the eastern coast. The Shawnee created a new headquarters at Shawnee Town, which was located at the mouth of the Scioto River. This headquarters served as a way to pull together many of the tribes which had been dispersed because of the Iroquois Wars (Tanner 1987).

Warfare was bound to break out as the British also began to stake claims in the Ohio region by the mid-1700s. The French and Indian War (1754-1760) affected many Ohio Native Americans; however, no battles were recorded in Ohio (Tanner 1987). Although the French and Indian War ended in 1760, the Native Americans continued to fight against the British explorers. In 1764, Colonel Henry Bouquet led a British troop from Fort Pitt, Pennsylvania to near Zanesville, Ohio.

In 1763, the Seven Years' War fought between France and Britain, also known as the French and Indian War ended with The Treaty of Paris. In this Peace of Paris, the French ceded their claims in the entire Ohio region to the British. When the American Revolution ended with the Second Treaty of Paris in 1783, the Americans gained the entire Ohio region from the British; however, they designated Ohio as Indian Territory. Native Americans were not to move south of the Ohio River but Americans were encouraged to head west into the newly acquired land to occupy and govern it (Tanner 1987).

By 1783, Native Americans had established fairly distinct boundaries throughout Ohio. The Shawnee tribes generally occupied southwest Ohio, while the Delaware tribes stayed in the eastern half of the state. Wyandot tribes were located in north-central Ohio, and Ottawa tribes were restricted to northeast Ohio. There was also a small band of Mingo tribes in eastern Ohio along the Ohio River, and there was a band of Mississauga tribes in northeastern Ohio along Lake Erie. The Shawnee people had several villages within Ross County along the Scioto River (Tanner 1987). Although warfare between tribes continued, it was not as intense as it had been in previous years. Conflicts were contained because boundaries and provisions had been created by earlier treaties.

In 1795, the Treaty of Greenville was signed as a result of the American forces defeat of the Native American forces at the Battle of Fallen Timbers. This allocated the northern portion of Ohio to the Native Americans, while the southern portion was opened for Euro-American settlement. Although most of the battles which led up to this treaty did not occur in Ohio, the outcome resulted in dramatic fluctuations in the Ohio region. The Greenville Treaty line was established, confining all Ohio Native Americans to northern Ohio, west of the Tuscarawas River (Tanner 1987).

Ohio Native Americans were again involved with the Americans and the British in the War of 1812. Unlike the previous wars, many battles were fought in the Ohio country during the War of 1812. By 1815, peace treaties began to be established between the Americans, British, and Native Americans. The Native Americans lost more and more of their territory in Ohio. By 1830, the Shawnee, Ottawa, Wyandot, and Seneca were the only tribes remaining in Ohio. These tribes were contained on reservations in northwest Ohio. By the middle 1800s, the last of the Ohio Native Americans signed treaties and were removed from the Ohio region.

Franklin County History

Lucas Sullivant was the first American to survey Franklin County and was the first settler to build a cabin in August 1797 in what would become Franklinton, later the state capitol of Columbus. Sullivant laid out the town of Franklinton that same year. Much of Central Ohio was part of the U.S. Military Lands which also included the Refugee Tract. The state legislature organized Franklin County on April 30, 1803, although its borders changed many times until 1857. The county's name honors Benjamin Franklin. Most of the early settlers of Franklin County were from Pennsylvania, Virginia, and New England. Immigrants in the late 1800s and early 1900s were mostly Germans, Italians, and Russians (Lee 1892; Martin 1858; Rickey 1983; Vesey 1901).

Early settlers of Franklin County settled in rich bottomlands of the Scioto and Olentangy Rivers, the Big Darby, Walnut, Big Walnut, and Alum Creeks. Most of the earliest settlers were farmers producing corn, wheat, cattle, and hogs. Agriculture remained a major source of income for the county until 1930 when urban expansion began. Today, with Columbus engulfing most of the county, little land is agricultural (Dodds 1952; Lee 1892; Martin 1858; Moore 1930; Rickey 1983).

During the late eighteenth century and early nineteenth century, trade with the Native Americans was an important source of income. The town of Worthington was platted and settled by 1803 and Dublin in 1818. In 1811, Worthington had a woolen mill. By 1815, several gristmills, sawmills, and distilleries were scattered along the rivers and streams throughout Franklin County. The work on the National Road (today US 40), which passes through Franklin County, came to completion in 1834. The Ohio Canal that passed through the southern portion of the county also operated in the 1830s. In 1850, the Columbus and Xenia Railroad was the first railroad to pass through the county. All of these modes of transportation improved the economy of the region and stimulated the

development of businesses and industries during the late 1800s and early 1900s. The improved transportation and economy led to population increases and as a result, new communities developed as the old ones expanded. Between 1830 and 1880, the following communities grew up in Franklin County: Groveport, Grove City, New Albany, Reynoldsburg, Hilliard, Gahanna, and Lockbourne (Ohio History Central 2005; Dodds 1952; Lee 1892; Martin 1858; Moore 1930; Rickey 1983; Vesey 1901).

Various businesses and industries developed in the different communities of Franklin County during the late 1800s. Columbus was the center of the economic development. After becoming the state capital in 1812, state political agencies also located in the city. Quarries were an important early industry for the county. In 1880, a sandstone quarry opened near Blacklick followed by the Marble Cliff quarries in Norwich Township. The twentieth century has seen the continued development and expansion of Columbus and surrounding urban areas. Suburbs dominate the landscape and the construction of freeways such as I-70, I-71, I-270, I-670, US 33, SR 161, SR 315, and SR 104 has eased the flow of transportation to and from the capitol further stimulating their growth (Ohio History Central 2005; Dodds 1952; Moore 1930; Rickey 1983; Vesey 1901).

Jackson Township History

After the Battle of New Orleans ended in January of 1815, General Andrew Jackson was a national hero. Mere months later, the people of Franklin County, in partitioning Franklin Township, decided to honor the general by naming the new township of fertile farmland after him (Taylor 1909). This township is located in the southwestern corner of Franklin County inside Pleasant Township and west of the Scioto River.

This organization took place just ten years after the first settler came to Jackson Township, a man named Hugh Grant. Grant was initially from Maryland, moved to Pittsburgh, married, and in 1804, the Grant family moved to Ross County. Soon after, Grant purchased 450 acres in what was to become Jackson Township. Without knowing the proper location of his parcel, he set out to settle his property in 1805 and ended up squatting along the Scioto River for which he was killed. His widow had the 450-acre plot located and lived there until 1836 (Moore 1930, Taylor 1909, and Vesey 1901). A vast list of other early settlers can be found in any of the formal histories of the area.

The early industry was typical of the region. Mills and farms, general stores and blacksmiths as well as a drain tile factory and a wagon factory had emerged by the middle point of the century (Moore 1930 and Vesey 1901). The first school was developed the year of township organization. However, the first post office did not appear until W. F. Breck laid out Grove City in the summer of 1852. Mr. Breck was the first postmaster of Jackson Township, holding the office until 1857. The Scioto Chapel was the first church erected in 1812 with several other churches of equally several denominations raising formal worship sites in the late 1850s and into the 1860s. Dr.

Joseph Bullen arrived in 1852 and worked as the township's first physician until his death in 1878 (Caldwell 1872, Taylor 1909, Moore 1930, and Vesey 1901).

The Township grew slowly, partially because of a lack of decent roadways. This was true until several good turnpikes arrived and facilitated easier travel and stimulated trade. Cottage Mille Pike, Franklin Pike, Harrisburg Pike, and Jackson Pike were these early roads (Moore 1930, and Vesey 1901). Business transportation also grew with the addition of the Baltimore & Ohio Railroad. Another step of the unhurried growth was the move of the Columbus Driving Park Association from Columbus to Grove City after the turn of the 20th Century. This park provided horse and dog races which bolstered the local economy despite making a "change in its tone" (Moore 1930).

Eventually, with the development of modern roadways and particularly I-71, Jackson Township began to grow more rapidly. Farming is still a productive venture in much of the township; however, this mode of existence is quickly giving way to multiple unit housing developments, industry, and commerce. This area is contained within the urban sprawl of Columbus, as Columbus pushes ever closer to the Pickaway County line.

Research Design

The purpose of a Phase I survey is to locate and identify cultural resources that will be affected by the planned development. This includes archaeological deposits as well as architectural properties that are older than 50 years. Once these resources are identified and sampled, they are evaluated for their eligibility or potential eligibility to the NRHP. These investigations are directed to answer or address the following questions:

- 1) Did the literature review reveal anything that suggests the project area had been previously surveyed, and what is the relationship of previously recorded properties to the project area?
- 2) Are cultural resources likely to be encountered in the project area?
- 3) Will the planned undertaking affect any archaeological or architectural properties?
- 4) Will any NRHP eligible sites or properties be affected by the planned development?

Archaeological Field Methods

The survey conducted within the project area was generally limited to subsurface testing methods and visual inspection. Surface collection was not possible due to the ground cover.

Shovel test unit excavation. Shovel test units were placed at 15-m intervals where adequate surface visibility was lacking. These measure 50 cm on a side and are excavated to 5 cm below the topsoil/subsoil interface. Individual shovel test units are documented regarding their depth, content and color (Munsell). Wherever sites are encountered, Munsell color readings are taken per shovel test unit. All of

the undisturbed soil matrices from shovel test units are screened using .6 cm hardware mesh. When sites are identified, additional shovel test units will be excavated at 7.5 m intervals extending on grid and in the four cardinal directions from the positive locations.

Visual inspection. Locations where cultural resources were not expected, such as disturbed areas and wet areas were walked over and visually inspected. Rodent-exposed areas were inspected for cultural materials. This method was used to verify the absence or likelihood of any cultural resources being located in these areas. This method was also utilized to document the general terrain and the surrounding area.

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

Curation

No artifacts 50 years of age or older were recovered during the investigations. Notes and maps affiliated with this project will be maintained at Weller & Associates, Inc. files.

Literature Review

The literature review study area is defined as a 1.6 km (1.0 mile) radius from the boundaries of the project (Figure 2 and 3). In conducting the literature review, the following resources were consulted at SHPO, at the Columbus Metropolitan Library, at the State Library of Ohio, and from various online resources:

- 1) *An Archaeological Atlas of Ohio* (Mills 1914);
- 2) SHPO United States Geological Survey (USGS) 7.5' series topographic maps;
- 3) Ohio Archaeological Inventory (OAI) files;
- 4) Ohio Historic Inventory (OHI) files;
- 5) National Register of Historic Places (NRHP) files;
- 6) SHPO consensus Determinations of Eligibility (DOE) files;
- 7) SHPO CRM/contract archaeology files; and
- 8) Franklin County atlases, histories, historic USGS 15' series topographic map(s), and current USGS 7.5' series topographic map(s).

A review of *An Archaeological Atlas of Ohio* (Mills 1914) was conducted. The *Atlas* did not indicate any resources situated within or adjacent to the project area.

A review of the SHPO topographic maps indicated that there are 41 sites located in the study area. None of these sites are located within or immediately adjacent to the project area (Table 2). All but one of these sites are associated with prehistoric period activity; the remaining site consists of a historic period scatter.

Table 2. Previously Recorded OAIs Located in the Study Radius.			
Site # (33...)	Site Type	Temporal Association	In or Adjacent to Project
FR0887	Lithic scatter	Late Archaic	NO
FR0888	Lithic scatter	Late Archaic	NO
FR0889	Lithic scatter	Unassigned Archaic	NO
FR0890	Lithic scatter	Unassigned Prehistoric	NO
FR0891	Lithic scatter	Early Archaic	NO
FR0892	Lithic scatter	Unassigned Prehistoric	NO
FR0893	Lithic scatter	Unassigned Prehistoric	NO
FR0894	Lithic scatter	Unassigned Prehistoric	NO
FR0895	Lithic scatter	Paleo, Early Archaic, Middle Woodland	NO
FR0896	Lithic scatter	Late Woodland	NO
FR0897	Lithic scatter	Unassigned Prehistoric	NO
FR0898	Lithic scatter	Unassigned Prehistoric	NO
FR0899	Lithic scatter	Unassigned Prehistoric	NO
FR0900	Lithic scatter	Unassigned Prehistoric	NO
FR0901	Lithic scatter	Early Archaic, Late Archaic, Early Woodland	NO
FR0902	Lithic scatter	Unassigned Prehistoric	NO
FR0903	Lithic scatter	Unassigned Prehistoric	NO
FR0904	Lithic scatter	Unassigned Prehistoric	NO
FR0905	Lithic scatter	Unassigned Prehistoric	NO
FR0906	Lithic scatter	Unassigned Prehistoric	NO
FR0907	Lithic scatter	Unassigned Prehistoric	NO
FR0908	Lithic scatter	Unassigned Prehistoric	NO
FR0909	Lithic scatter	Unassigned Prehistoric	NO
FR0910	Lithic scatter	Unassigned Prehistoric	NO
FR0911	Lithic scatter	Unassigned Prehistoric	NO
FR0912	Lithic scatter	Unassigned Prehistoric	NO
FR0913	Lithic scatter	Unassigned Prehistoric	NO
FR0914	Lithic scatter	Unassigned Prehistoric	NO
FR0915	Lithic scatter	Unassigned Prehistoric	NO
FR0920	Lithic scatter	Unassigned Prehistoric	NO
FR0922	Lithic scatter	Unassigned Prehistoric	NO
FR0923	Lithic scatter	Unassigned Prehistoric	NO
FR0924	Lithic scatter	Late Woodland	NO
FR2170	Lithic scatter	Middle Archaic	NO
FR2171	Lithic scatter	Unassigned Prehistoric	NO
FR2172	Lithic scatter	Unassigned Prehistoric	NO
FR2173	Lithic scatter	Unassigned Prehistoric	NO
FR2175	Lithic scatter	Unassigned Prehistoric	NO
FR2177	Historic scatter	Unassigned Prehistoric	NO
FR2350	Lithic scatter	Unassigned Prehistoric	NO
FR2351	Lithic scatter	Unassigned Prehistoric	NO

The Ohio Historic Inventory (OHI) files indicated that there are two previously recorded OHI resources in the study area. These include OHI FRA0192226 (Charles

Koogler Farm) and FRA0866528 (Egelhoff Residence). Neither of these are within or near the project area, however, the Charles Koogler Farm was confirmed to be demolished as it was at the location of the high school campus to the south of the project.

A review of the NRHP files and determination of eligibility files indicated that there are no resources within or adjacent the project area. There are no such resources located in the study area.

There have been five CRM surveys conducted within the study area, none of which incorporated any aspects of the current project (Aument 1991; Duerksen et al. 2000; Weller 2003; Wagner 2012; Aument and Gibbs 1991). Four of the surveys conducted were Phase I level reconnaissance surveys. Aument and Gibbs (1991) conducted a Phase III data recovery on sites 33FR895 and 33FR901. Neither of these are within or near the current project area.

Cartographic/atlas resources were reviewed for the project area. According to the *Atlas of Franklin County, Ohio* (Lake 1875) the property was owned by Elisa White. The USGS *1900 West Columbus 15 Minute Series (Topographic)* map indicates no buildings within the project area (Figure 4). There are no residences indicated in the vicinity of the project area.

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 area had been previously surveyed?
- 2) Are cultural resources likely to be encountered in the project area?

The project area has not been the subject of any previous investigations. There are several CRM surveys conducted within the study area. Mills (1914) did not identify sites in the immediate vicinity. Given the location of the project area and the presence of sites in the neighboring and similar terrain, it seems plausible that archaeological deposits might be present if there are intact soils.

Fieldwork Results

The field investigations for this project were conducted on March 2, 2016 (Figures 5-15). The weather was amiable for the completion of the fieldwork. The project area is approximately a 4-acre parcel that is the proposed location of the Bolton Station. Two factors inhibiting sampling during the investigation include inundated conditions and significant disturbance in portions of the project area.

The project area is located on the East side of Holt Road approximately 0.75 miles South of Alkire Road in Jackson Township, Franklin County. Flat terrain dominates the

project area. The project area is rectangular and is bordered by a housing development to the north. Holt Road defines the project's western boundary. The southern and eastern extents are defined by a tree line/hedgerow. Two mid-twentieth century houses and their associated structures, which once stood on the parcel, were demolished sometime between 2007 and 2009 based on aerial evidence. Concrete slab foundations and minor debris remain from the house's former locations (Figure 5 and 7). Gravel driveways connecting the foundations to Holt Road are still intact and create significant disturbance throughout portions of the parcel (Figure 5 and 6). The disturbed area is throughout the western and southcentral portions of the project (Figure 5). The ground surface is overgrown with mixed grasses and significant portions contain standing water.

Some shovel probes revealed disturbance of mixed topsoil and subsoil with heavy gravel content (Figure 5). The testing was limited to the southern and western portions of the project. Intact topsoil/subsoil was encountered, primarily in the southern and northwestern portion of the area. The topsoil in this area is dark grayish brown (10YR4/2) silt loam with an underlying subsoil that is a dark yellowish brown (10YR4/6) silty clay loam (Figure 12). Five transects of shovel tests were excavated with a total of twenty shovel tests and three shovel probes completed. The northwestern portion of the project area is located in a slight depression and is wholly inundated and unsuitable for shovel test excavation (Figure 5). This is not uncommon considering the two soil types in the project area that are classified as somewhat poorly drained to poorly drained. The landform for the adjacent modern development directly to the north of the project are built up slightly to avoid standing water issues and a small berm separates the nearest residences from the project area. All testing proved negative for cultural material and no sites were identified.

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.

The undertaking includes the construction of a substation within the project area. The construction of the substation is not considered to have an effect on any historic properties.

The surroundings include several modern developments. A high school campus is located directly to the south and east (including the ballfields), to the west is the Bolton Field Airport, and to the north is all modern residential developments. Upon verification in the field, it was found that no architectural resources that are 50 years of age or older are located within a direct line-of-sight of the project. The undertaking is considered to have no affect on historic properties as it has: 1) a limited area of potential effect; 2) the

construction activity is consistent with the surroundings; 3) there are no historic properties within what is regarded as being the area of potential effect (Figure 2).

Recommendations

In March of 2016, Weller completed a Phase I Cultural Resources Management Investigation for the proposed Bolton Station located in Jackson Township, Franklin County, Ohio. The station will be constructed on an approximate 1.6 ha (4 ac) parcel located on the east side of Holt Road approximately 0.75 miles south of Alkire Road. Some of the area has been extensively disturbed in places from former construction and demolition activities related to two former houses with associated outbuildings that once stood on the property. These investigations did not result in the identification of archaeological sites. It is the opinion of Weller that no historic properties will be affected by the project. No further work is recommended for this undertaking.

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Figures



Figure 1. Political map of Ohio showing the approximate location of the project.

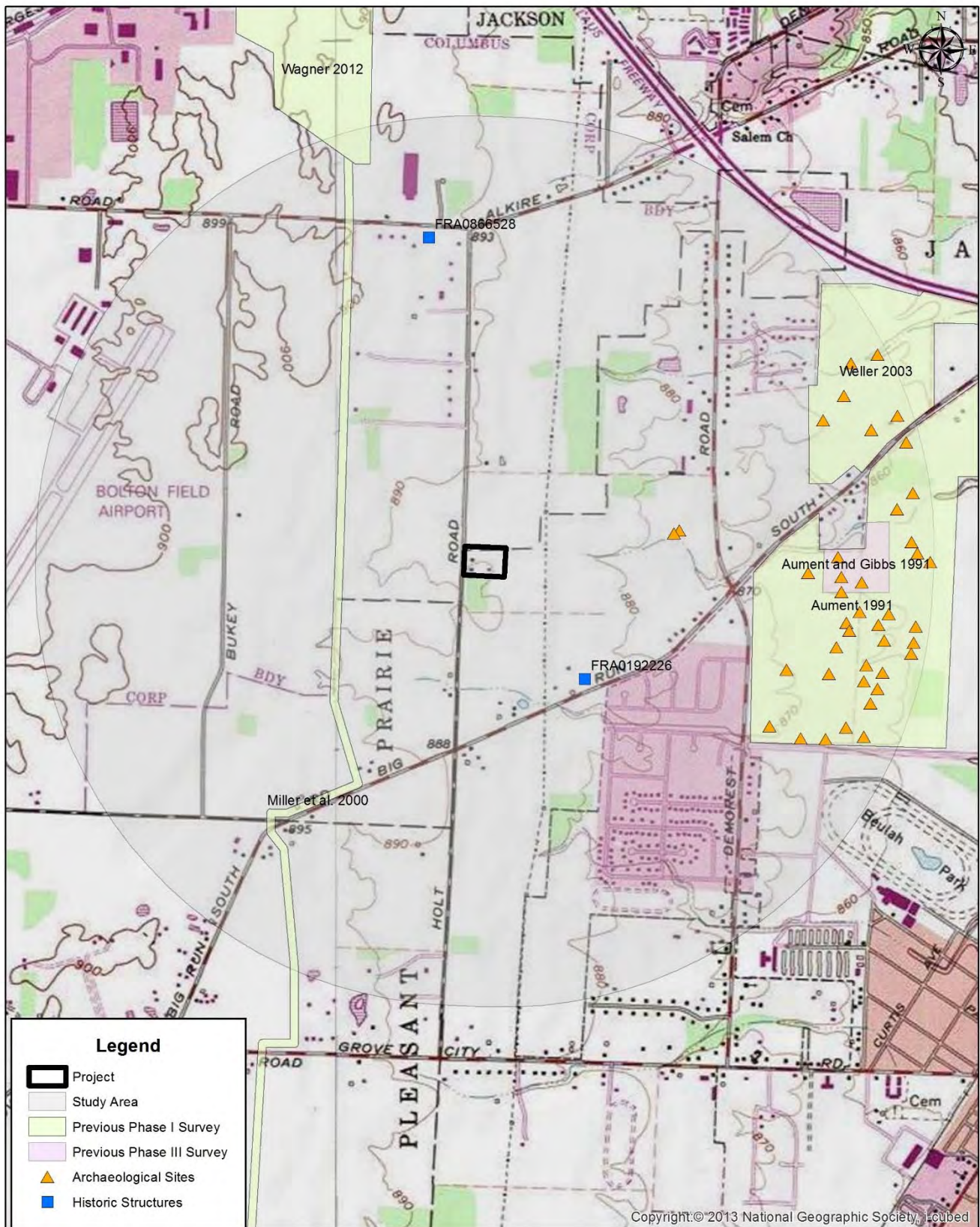


Figure 2. Portion of the USGS 1965 *Southwest Columbus, Ohio 7.5 Minute Series (Topographic)* map indicating the location of the project and previously recorded resources in the study area.

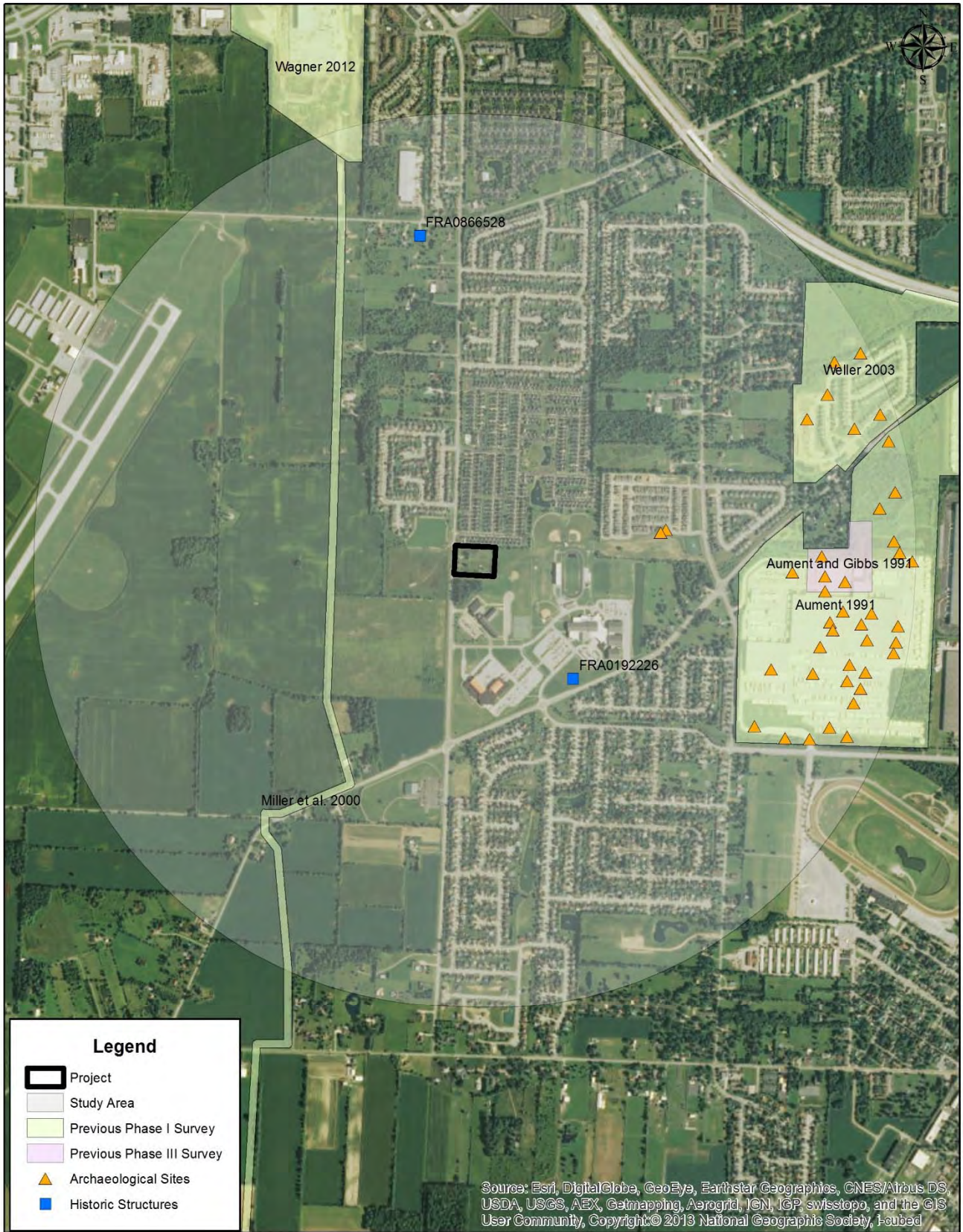


Figure 3. Aerial map indicating the location of the project and previously recorded resources in the study area.

0 1,000 2,000 4,000 Feet

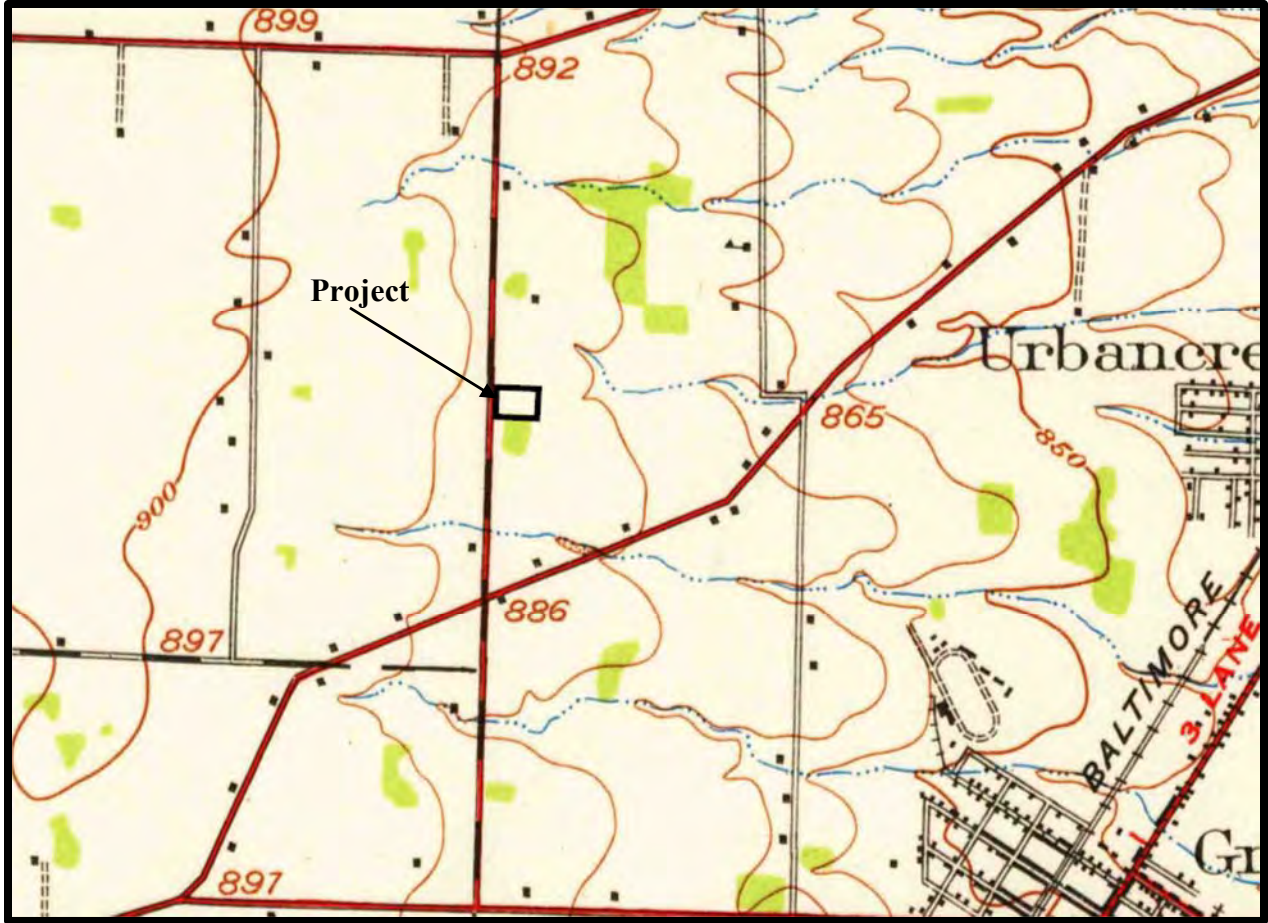


Figure 4. Portion of the USGS 1923 West Columbus, Ohio 15 Minute Series (Topographic) map indicating the location of the project.

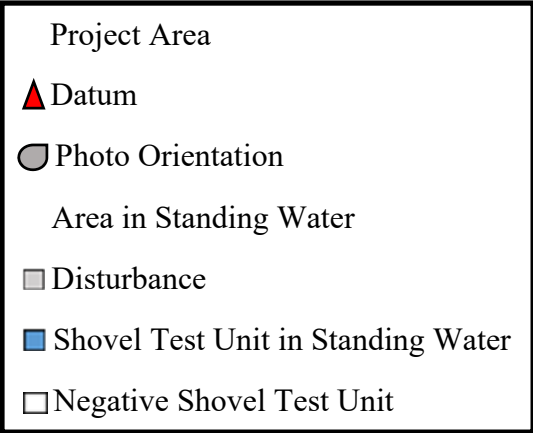


Figure 5. Fieldwork map indicating the results of testing and photo orientations for the project.



Figure 6. View of an existing drive within the project area.



Figure 7. View of some of the disturbed area within the project.



Figure 8. View of Project area facing north.



Figure 9. View of project area facing east.



Figure 10. View of project area facing south.



Figure 11. View of project area facing west.



Figure 12. View of existing foundation.



Figure 13. View of conditions in northeast portion of project area.

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Summary: Notice - Construction Notice for the Bolton T-Line Cut-In electronically filed by Mrs. Erin C Miller on behalf of AEP Ohio Transmission Company