

# APPENDIX 9

## *Archaeological Study*

- Phase 1A
- Phase 1B



**PHASE IA ARCAHEOLOGICAL INVESTIGATION OF THE AREA OF  
POTENTIAL EFFECT FOR  
THE WATCHTOWER FARMS IMPROVEMENT PROJECT**

**HAMLET OF WALLKILL, TOWN OF SHAWANGUNK  
ULSTER COUNTY, NEW YORK**

**NEW YORK STATE OFFICE OF PARKS, RECREATION AND HISTORIC  
PRESERVATION PROJECT REVIEW NUMBER 08PR01180**

**Prepared for:**

**The Watchtower Bible and Tract Society of New York, Inc.  
Brooklyn, New York City  
and  
Town of Shawangunk, New York**

**Prepared by:**

**Eugene J. Boesch Ph.D, R.P.A.**

**June 13, 2008**



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## MANAGEMENT SUMMARY

OPRHP Project Review Number: 08PR01180

Involved State, Federal, and Local Agencies: Town of Shawangunk Planning Board

Phase of Survey: IA

### Location Information

Location: Town of Shawangunk  
Minor Civil Division: Hamlet of Wallkill  
County: Ulster

Survey Area: Watchtower Farms Improvement Project

Acreage: 51

USGS 7.5 Minute Quadrangle Map: Napanoch, New York.

### Archaeological Survey Overview

Number and Interval of Shovel Tests NA

### Results of Archaeological Survey:

Number and name of prehistoric sites identified: None/Portions of Property Sensitive

Number and name of historic sites identified: None/Portions of Property Sensitive

### Results of Architectural Survey

Number of buildings/structures/cemeteries within project area: 25

Number of buildings/structures/cemeteries adjacent project area: 10

Number of previously determined NR listed or eligible buildings/  
structures/cemeteries/districts within project area: None

Number of identified eligible buildings/structures/cemeteries/  
districts adjacent project area: One (Dill Farm located about 2,000 feet to north)

Report Author: Eugene J. Boesch Ph.D., R.P.A.

Date of Report: June 13, 2008



## 1.0 INTRODUCTION

This report presents the results of a Phase IA archaeological investigation of the approximately 5.1-acre area of potential effect (APE) for the Watchtower Farms Improvement project, situated within Watchtower Farms, located at 900 Red Mills Road in the Hamlet of Wallkill, Town of Shawangunk, in southern Ulster County, New York (Figures 1-4). The property is located on parcel 99.04, block 1, lot 11 on the Town of Shawangunk tax map. The APE is part of an approximately 1,141 acre tract owned by the Watchtower Bible and Tract Society of New York, Inc. and known locally as Watchtower Farms. It has primary frontage of Red Mills Road. The APE is located in the southwestern portion of the large Watchtower Farms property. Red Mills Road divides the APE with approximately 46 acres located north of the road and two acres located south of it. The property, including the APE, is owned by the body of Christians known as Jehovah's Witnesses, a domestic-not-for profit corporation (Watchtower Bible and Tract Society of New York, Inc. 2007). The Watchtower Farms property in the Town of Shawangunk is one of the three principal properties in New York State owned by the Jehovah's Witnesses. Approximately 1,000 individuals live and work at Watchtower Farms.

The New York State Office of Parks, Recreation and Historic Preservation (NYSOPRHP) has assigned the project review number 08PR01180 to the Watchtower Farms Improvement project (Markunas 2007). The study was requested by the Watchtower Bible and Tract Society of New York, Inc. The Town of Shawangunk Planning Board has assumed lead agency status for the purposes of the State Environmental Quality Review Act.

The APE is located one mile south of the Hamlet of Dwaarkill at the intersection of New Prospect Road and Awosting Road. The Ulster County - Orange County border is located at the Shawangunk River, located less than a quarter mile south of the APE. The Shawangunk Mountains ridgeline, a prominent local natural feature, is located about four miles northwest of the APE.

The project property consists of portions of the terrace-like topographic features and other areas of high ground north and west of the Shawangunk River. The river has been designated a New York State Recreational River. The Dwaarkill, a larger tributary of the Shawangunk River, flows past the APE to its east, paralleling Steen Road, joining that river slightly less than a half mile south/southeast of the APE. A small, unnamed tributary of the Dwaarkill flows along the northern edge of the APE, while an intermittent stream flows through the APE's southern portion.

The Phase IA archaeological study has been conducted and this document prepared in accordance with the United States Secretary of the Interior's guidelines for archaeological surveys and the guidelines and standards currently adopted by the New York State Office of Parks, Recreation, and Historic Preservation (New York Archaeological Council 1994, 2000; New York State Office of Parks, Recreation and Historic Preservation 2005). The objectives of the study are to determine the sensitivity of the Watchtower Farms Improvement project's APE for the presence of Native American period and Historic period archaeological resources and to recommend any necessary further investigations.

### 1.1 Description of the Proposed Watchtower Farms Improvement Project's Area of Potential Effect

The area of potential effect (area of direct and indirect disturbance) for the project at Watchtower Farms is approximately 51 acres in size. It consists of approximately 49 acres, located north of Red Mills Road (formerly

called Goebel Road; see Watchtower Bible and Tract Society of New York, Inc. 2007:II-12) and two acres located south of that road.

Approximately 36 of the APE acres north of Red Mills Road consist of the previously developed portion of the Watchtower Farms property. For the purposes of this report, this area is referred to as Zone A on Figure 4. In the area, the APE is characterized by existing buildings, an out door pool, recreational areas, landscaped grounds, roadways, and parking areas (Photographs 1 - 19; Figures 1 - 6). Underground utilities and storm drains extend throughout the area. New residences, other buildings and facilities, building additions, new below ground utilities, and newly landscaped grounds will be constructed in this area. The portion of the APE northwest of the main cluster of site buildings consists of existing modular homes, recreational facilities and ball courts, landscaped grounds, roadways, parking areas, and underground utilities (Photographs 1 - 11, 14, and 17 - 19; Figures 2 - 6). The Watchtower Bible and Tract Society of New York, Inc. began to develop the property, which was formerly cultivated land, in 1971. The last building construction occurred there in 1994 (Watchtower Bible and Tract Society of New York, Inc. 2007:II-12 - II-13). Accordingly, existing buildings within the developed portion of the APE date to the period 1971 - 1994.

The portion of the Watchtower Farms property west of the main cluster of buildings includes the remaining 13 acres of the APE north of Red Mills Road. It consists of formerly cultivated land now used primarily as seed pasture but also utilized as an overflow parking lot and recreational fields. The 13 acres are the planned locations of a new parking garage, recreation building, roadways, below ground utilities, and landscaped grounds (Photographs 12, 13, 15, and 16; Figures 2 - 6). For the purposes of this report, the western portion of the APE north of Red Mills Road is referred to as Zone B on Figure 4.

The approximately two acre portion of the APE south of Red Mills Road is the planned location of a below ground sewer utility line leading from the main property access road and Red Mills Road to the Farm's existing wastewater treatment facility. The proposed pipeline route is approximately 850 feet long. The width of the pipe trench will be approximately 10 feet. From Red Mills Road, the route of the planned utility will extend along the edge of an existing agricultural field and across landscaped grounds and pasture to the waste water treatment facility (Photographs 20 - 22; Figures 3 and 5). For the purposes of this report, the portion of the APE south of Red Mills Road is referred to as Zone C on Figure 4.

No rock outcroppings, caves, or rockshelters are located within the APE for the Watchtower Farms project. In addition, no lithic raw materials that could have been exploited by Native Americans were identified within the Watchtower Farms project APE during the pedestrian reconnaissance of the property or by the research conducted for this study.

### **1.1.1 Proposed Project Impacts**

Ground disturbance will generally occur within the existing, developed portion of the Watchtower Farms property and within the fenced pasture. Ground disturbance will result from construction of new buildings and additions to existing structures. Areas affected by construction will include existing surface parking lots, landscaped areas, an outdoor recreational area, and the pasture/overflow parking field (Figures 2 - 6). North of Red Mills Road, project construction will consist of:

- construction of a new three story, 300 room residence with ancillary uses and an associated pedestrian/utility tunnel within part of the fenced pasture, recreational area, and landscaped ground (Figure 3 - 6; Photographs 6 and 7);
- construction of a three story accessory office building with basement by the existing out door pool and recreational ball court (Photographs 8 and 9; Figures 3 - 6);
- expansion of existing buildings for new dining, laundry, and dry cleaning facilities (Photographs 10 and 11; Figures 3 - 6);
- construction of a two story, 400 space parking garage within the fenced pasture in the western portion of the APE (Photographs 12 and 13; Figures 3 - 6);
- construction of a one story building near printery 2 (Photograph 14 and Figures 3 - 6);
- construction of a recreation building within the fenced pasture in the western portion of the APE (Photograph 15 and 16; Figures 3 - 6);
- construction of a technical equipment building;
- relocation and improvement of recreational facilities (tennis, handball, volley ball, and basketball courts, and soccer/utility fields; Photographs 17 and 18; Figures 3 - 6);
- removal of 96 units on modular housing (Photograph 19; Figures 3 - 6);
- extension of an existing earthen berm within the northwestern portion of the APE (Figures 3 - 6);
- installation of utilities north of Red Mills Road; and
- landscaping throughout various portions of the APE north of Red Mills Road.

South of Red Mills Road, project construction will consist of:

- installation of a waste water utility line extending south of Red Mills Road (Photographs 20 - 22; Figures 3 and 5); and
- landscaping throughout various portions of the APE south of Red Mills Road.

## **1.2 Previous Archaeological Investigations Within the Project Vicinity**

No cultural resource reports are included in the report library and files of the NYSOPRHP for properties within one mile of Watchtower Farms property. Four reports, however, are included in NYSOPRHP's collections for projects within approximately two miles of the property. These are discussed below:

- A Phase I archaeological investigation of the proposed Winter Wonderland sub-division (Cammisa, Cammisa, and Padilla 2006), located in the Hamlet of New Prospect in the Town of Shawangunk about two miles southwest of the project property, determined that the 58 acre tract was sensitive for the presence of Native American and Historic period archaeological sites. Sub-surface testing of the property, recovered one chert flake. No other potentially significant artifacts or deposits were recovered by the testing and additional archaeological investigation of the project area was not recommended.
- A Phase I archaeological investigation of the proposed Verizon Wireless Telecommunications Monopole and Facility project area (Tectonic Engineering and Surveying Consultants, P.C. 2007), located in the Hamlet of Wallkill in the Town of Shawangunk, slightly more than two miles northeast of the Watchtower Farms property, determined that the 0.64 acre tract was sensitive for the presence of Native American archaeological sites and not sensitive for Historic period archaeological sites. Sub-surface testing of the property did not recover any Native American or Historic period artifacts and additional archaeological investigation of the project area was not recommended.
- A Phase I archaeological investigation (Diamond 2006) of an approximately 23 acre sub-division, located along Mountain Road near the Dwaarkill in the Town of Shawangunk, determined that the project area was sensitive for the presence of Native American and Historic period archaeological sites. The project area is located approximately two miles northeast of the Watchtower Farms project area. Subsequent subsurface testing of the property did not encounter any Native American or Historic period deposits or artifacts and additional archaeological investigation of the project area was not recommended.

The files of the NYSOPRHP also indicate that a fourth archaeological study was undertaken approximately two miles southwest of the Watchtower Farms property near Walker Valley in the Town of Shawangunk (NYSOPRHP 2008). However, the report was not reviewed since it could not be located in the NYSOPRHP library.

### **1.3 Properties Listed on the New York State and National Registers of Historic Places in the Project Area Vicinity and Other Cultural Resources**

The Dill Farm (90NR01086), a 23 acre property listed on the New York State and National Register of Historic Places, is located west of Steen Road (Goebel Road) in the Town of Shawangunk, about 2,000 feet north of the APE (see Barry 1983; Figure 5; Photograph 23; Appendices B and C). It also is listed as the Meredith House in the local Town of Shawangunk inventory of its cultural resources (Watchtower Bible and Tract Society of New York, Inc. 2007). The Farm, listed on the National Register in 1983, also is currently owned by the Watchtower Bible and Tract Society of New York, Inc. The property is part of the Shawangunk Valley Multiple Resource Area (Shaver 1993:170). The Dill Farm house is a Colonial style farm residence with a steeply pitched overhanging roof that was constructed around 1760 (Photograph 23 and Figure 7). Additions and alterations to the dwelling have occurred since its initial construction. A number of contributing buildings also are located on the property including a Greek Revival style tenant house, barns, a milk house, and an ice house (Shaver 1993:170; Photographs 24 - 26). The Dill Farm and its contributing structures will not be directly impacted by the proposed development project at Watchtower Farms (Watchtower Farms Bible and Tract Society of New York, Inc. 2007).

No other properties listed, or now considered eligible for listing, on the New York State or National Registers of Historic Places are located within the project property or on parcels immediately adjacent to it (Shaver 1993; NYSOPRHP 2008a, 2008b). Four other New York State and National Registers listed properties, however, are located between approximately one half and one and a half miles of the APE. These are:

- The Thomas Jansen house (90NR01088), located on a 38 acre property along Jansen Road, in Shawangunk, less than a mile and a half northeast of the Watchtower Farms property. The property is part of the Shawangunk Valley Multiple Resource Area (Shaver 1993:170). The house is a one story Dutch Colonial stone residence constructed around 1727 with a Federal style stone main section added around 1790. A number of contributing buildings also are located on the property including a barn, springhouse, and shed (Shaver 1993:170).
- The Johannes Decker Farmstead (90NR01082), located on a 65 acre property between Red Mills Road and the Shawangunk River in Shawangunk, about one and a quarter miles northeast of the Watchtower Farms property (Shaver 1993:170). The house is a one and a half story Dutch Colonial stone residence constructed around 1720 with later eighteenth century additions. An eighteenth century Dutch barn, carriage house, and ice house are associated with the property (Shaver 1993:170).
- The William Decker house (90NR01085), located on a nine acre property along New Prospect Road in Shawangunk, slightly more than a half mile northwest of the Watchtower Farms property. The property is part of the Shawangunk Valley Multiple Resource Area (Shaver 1993:170). The house is a one and a half story Dutch Colonial stone residence in linear form. The dwelling was initially constructed around 1730 with later eighteenth century and twentieth century additions (Shaver 1993:170).
- The Pearl Street School (90NR01090), located along Awosting and Decker Roads in Shawangunk, about one and a quarter miles northeast of the Watchtower Farms property. The property is part of the Shawangunk Valley Multiple Resource Area (Shaver 1993:170). The school house is a one room, vernacular frame structure built around 1850 with subsequent alterations and enlargements to enable the building to be reused as a residence (Shaver 1993:170).

None of these significant properties will be directly impacted by the proposed development project at Watchtower Farms.

In terms of visual resources, the *Town of Shawangunk Open Space Inventory and Analysis* (Town of Shawangunk 2004) and the 2005 *Shawangunk Mountains Scenic Byway Corridor Management Plan* (Watchtower Bible and Tract Society of New York, Inc. 2007) lists the sections of Red Mills Road extending through the Watchtower Farms property (and the APE), and Steen Road, located about one half mile to the east of the APE, as scenic roads (see Watchtower Bible and Tract Society of New York, Inc. 2007).

#### **1.4 Structures Fifty Years of Age or Older Within or Adjacent to the Watchtower Farms Project Area of Potential Effect**

No structures fifty years of age or older are located within the current project's APE. However, 12 such structures are located in proximity to the APE. These consist of the Dill Farm residence and its four associated outbuildings (Photographs 23 – 26; Figure 5; Appendices B and C; see Chapter 1.3) and seven other residences. These 12 structures are shown in this report in Photographs 23 – 32, which are included in Appendix C of this report.

The Watchtower Bible and Tract Society of New York, Inc. currently owns the: 1) Dill Farm house, tenant house, and associated outbuildings; 2) dwelling south of the Watchtower Farms main entrance; and 3) the residences referred to by Watchtower Farms as F House, T House, and the Green Cottage and the Yellow Cottage (see Figure 5; Photographs 27, 28, 31, and 32; Appendices B and C).

The two houses located along Steen Road, just north of the intersection of that road and Red Mills Road, are privately owned dwellings (Photographs 29 and 30; Appendices B and C).

#### **1.5 Methodology**

This Phase IA archaeological investigation involved documentary research on the Euro-American history and Native American culture history of the proposed area of potential effect for the Watchtower Farms Improvements project and its vicinity. Research for the study was conducted at the following repositories:

New York State Office of Parks, Recreation and Historic Preservation,  
New York City Public Library, Local History, Map, and General Research Divisions,  
Ulster County Historical Society,  
Towns of Shawangunk and Gardiner Historical Society,  
Town of Shawangunk Public Library,  
Haviland-Heidgerd Historical Collection, Elting Memorial Library, Town of New Paltz,  
New York, and  
The Watchtower Bible and Tract Society of New York, Inc.

In addition, the following people were contacted in person or by telephone:

Ms. Cynthia Blakemore, New York State Office of Parks, Recreation and Historic Preservation,  
Ms. Suzanne Isaksen, Towns of Shawangunk and Gardiner Historical Society,  
Ms. Shirley Orndorff, Town Historian, Town of Shawangunk,  
Ms. Wendy Harris, professional archaeologist familiar with the Shawangunk area,  
Mr. Gilbert Nazareth, Purchasing, Watchtower Bible and Tract Society of New York, Inc.,  
Mr. David W. Kjos, Project Management, Watchtower Bible and Tract Society of New York, Inc., and  
Mr. Robert May, Purchasing, Watchtower Bible and Tract Society of New York, Inc.

Based on the documentary research and pedestrian reconnaissance, the archaeological sensitivity of the project area was assessed. Assessment of Native American period sensitivity was based on the location of known archaeological sites reported in the literature as well as a consideration of the present and former topographic and

physiographic characteristics of the project property. Assessment of Historic period sensitivity was based on an analysis of eighteenth to twentieth century maps as well as a review of secondary sources.

Appendix A to this report contains the appropriate United States National Resources Conservation Service map, which depicts the current Watchtower Farms property, and associated legend.

Appendix B to this report indicates the locations of the photographic views included in this document as Photographs 1 – 32.

Appendix C to this report contains Photographs 23 – 32 showing the Dill Farm residence and other buildings 50 years of age or older that are located immediately adjacent to the Watchtower Farms Improvements project's area of potential effect.

## **2.0 ENVIRONMENTAL SETTING OF THE WATCHTOWER FARMS IMPROVEMENT PROJECT AREA**

The project area is situated along terrace-like locations and other areas of high ground overlooking the Shawangunk River and its floodplain. The Dwaarkill, a tributary of the Shawangunk River, flows past the project site about a quarter mile to the north. It joins the Shawangunk River about a half mile to the northeast of the Watchtower Farms property. A tributary of the Dwaarkill flows along the northern edge of the property's APE, while a seasonal stream flows through the APE's southern portion. A large wetland system is located a couple of hundred feet north of the APE but still within the Watchtower Farms tract. About four miles west of the APE lies the Shawangunk Mountains ridgeline.

The soil associations present within the APE include two varieties that formed in glacial lake deposits, suggesting that such features were present in the immediate project vicinity during late Pleistocene or early Holocene times (see Chapter 2.3).

No rock outcroppings, caves, or rockshelters are located within the APE for the Watchtower Farms project. In addition, lithic raw materials that could have been exploited by Native Americans were not identified within the Watchtower Farms project APE during the pedestrian reconnaissance of the property or by the research conducted for this study.

### **2.1 Geology**

Specifically, the project area is part of the Ridge and Valley physiographic province (Rogers, Isachsen, Mock, and Nyahay 1990; Van Diver 1985; Gross and Ostrowski 1981). The province is part of a large expanse of ridge and valley systems extending from Lake Champlain on the north southward through the Hudson Valley corridor to the Hudson Highlands and extending southwestward through corridors formed by the Wallkill and Delaware Valleys. In the project vicinity, it extends from the Hudson River westward to the Shawangunk Mountains. The elevation of the upland section in the immediate project area vicinity is generally between 306 and 411 feet above mean sea level (United States Geological Survey 1956; see Figure 1).

In the project area vicinity, the Ridge and Valley province is characterized by northward trending ridges and lowlands carved from middle to late Ordovician aged (460 - 438 million years B.P.) Schenectady sandstone, siltstone, and shale (Rogers, Isachsen, Mock, and Nyahay 1990).

### **2.2 Surface Geology**

The Ridge and Valley province in the Hudson Valley area was greatly affected by the Wisconsin glaciation. In Ulster County, glacial events left a complex sequence of unconsolidated till, outwash, and lacustrine deposits over much of the bedrock. The till consists of a heterogeneous mixture of poorly sorted rock materials deposited directly by the glaciers and may have a high sand or clay content. The outwash sands and gravels are stratified sediments deposited in the major river valleys and their tributaries by glacial meltwaters. Lacustrine deposits are stratified sediments consisting primarily of silts and clays that were laid down in glacial lakes. These deposits are not distinct in their distribution; rather there is usually a gradual horizontal and vertical transition from one to the other.



The principal, and by far largest, glacial lake that formerly covered the project region was Proglacial Lake Albany. The lake formed approximately 15,800 years ago as a result of the damming of the Hudson River mouth at the New York City Narrows and the formation from there to the Newburgh area of Proglacial Lake Hudson. Proglacial Lake Albany formed north of that point, extending from the Glens Falls area to the vicinity of the Roeloff Jansen Kill and was up to fifty miles in width. At Albany, the lake reached depths of at least 400 feet. It drained around 12,450 years ago when Proglacial Lake Hudson drained after the moranian dam at the Narrows was breached. Another outlet has been proposed through the Sparkill Gap into the headwaters of the Hackensack River (Isachsen, Landing, Rickard, and Rogers 1991:187; Canaster and Snow 1977:5). There also existed a number of smaller glacial lakes located along the Shawangunk Mountains ridge line. The closest to the project site was Proglacial Lake Minnewaska. In addition, two of the nine soil associations identified within the APE (see Chapter 2.3) formed in former proglacial lake deposits suggesting that such features were present for a time in the immediate vicinity of the current project property.

In addition to glacial deposits, glaciofluvial events created kames, kame terraces, outwash plains, scoured rock surfaces, and eskers throughout the mid-Hudson Valley area (Fenneman 1938). In the Shawangunk area, surface evidence of glaciation is common. Within the project area vicinity glacial erratics and glacial striations on bedrock are frequently found.

### **2.3 Project Area Soils**

Nine soil types have been mapped for the Watchtower Farm's project's APE (Tornes 1979; National Resources Conservation Service 2008; see Appendix A and Table 1). Most of the soils were formed in glacial till, glacial outwash deposits, or former glacial lake deposits. The depth to bedrock within the project's APE reportedly is at least 15 feet below grade (Watchtower Bible and Tract Society, Inc. 2007).

The largest unit found within the project area is Volusia gravelly silt loam (VoA). The variety present within the APE is found on terrain with slopes ranging between zero and three percent. The unit is located in the central portion of the APE and includes locations currently occupied by structures, recreational fields, and pasture. The soil association consists of very deep, somewhat poorly drained, nearly level to strongly sloping soils found within dissected glacial uplands. It formed in glacial till dominated by material derived from siltstone, sandstone, and shale. Permeability of the soil type is moderate or moderately rapid with the depth to the water table being more than 1.8 meters (six feet) below the surface. The depth to bedrock is usually more than 1.5 meters (five feet) below grade (Tornes 1979).

The variety of Castile gravelly silt loam (CgA) soil present within the APE is found on slopes ranging between zero and three percent. It is located in the eastern and western portions of the APE and include locations currently occupied by structures, recreational fields, and pasture. The soil association consists of deep, poorly to moderately well drained, nearly level soils derived from lake deposited clays and silts over glacial till. Permeability of the soil type is moderate or moderately rapid with the depth to the water table ranging between 0.9 and 1.8 meters (three to six feet) below the surface. The depth to bedrock is usually more than 1.4 meters (4.5 feet) below grade (Tornes 1979).

The variety of Cambridge gravelly silt loam (CaB) soil present within the APE is found on slopes ranging between three and eight percent. It is located in the eastern most portion of the APE and includes locations currently used as pasture. The soil association consists of deep, moderately well drained, gently sloping soils. Permeability of the soil type is slow with the depth to the water table ranging between 0.9 and 1.8 meters (three to six feet) below

the surface. The depth to bedrock is usually more than 1.5 meters (five feet) below grade (Tornes 1979). Two varieties of Hoosic gravelly silt loam (HgB, HgC) soil are present within the APE, located within its southern and southwestern portions. These currently are used as pasture or are the locations of woodlands or scattered buildings. The varieties present within the APE are Hoosic gravelly loam found on slopes ranging between three and eight percent (HgB) and Hoosic gravelly loam, rolling terrain (HgC). The associations are deep, excessively well drained to well drained soils derived from glacial outwash. Permeability of the soil type is rapid with the depth to the water table ranging between 0.9 and 1.8 meters (three to six feet) below the surface. The depth to bedrock is usually more than 1.5 meters (five feet) below grade (Tornes 1979).

The variety of Bath and Mardin very stony soils, sloping terrain (BRC) present within the APE is found on land with slopes ranging between zero and three percent. It is located in the southeastern most portion of the APE and includes locations currently occupied by structures and woodland. The soil association consists of deep, well drained soils found on lower portions of slopes. The soil developed in glacial till. Permeability of the soil type is moderate or moderately rapid with the depth to the water table ranging between 0.9 and 1.8 meters (three to six feet) below the surface. The depth to bedrock is usually more than 1.5 meters (five feet) below grade (Tornes 1979).

Two varieties of the Churchville silt loam (CvA, CvB) soil association are present within the APE. They are situated in the western most portion of the APE, which is currently used as pasture. The varieties are Churchville silt loam found on terrain with slopes ranging between zero and three percent (CvA) and Churchville silt loam found on terrain with slopes ranging between three and eight percent (CvB). The soils are very deep, somewhat poorly drained soils found on lowland glacial till plains and the lower slopes of valleys. Permeability of the soil type is slow to moderate with the depth to the water table ranging between 0.15 and 0.45 meters (0.5 to 1.5 feet) below the surface. The depth to bedrock is usually more than 1.8 meters (six feet) below grade (Tornes 1979).

**Table 1**  
**Watchtower Farms Project Area Soils**

<b>Soil Association Name</b>	<b>Texture, Inclusions</b>	<b>Slope %</b>	<b>Drainage</b>
Bath and Mardin very stony soils, sloping (BRC)	Silt Loam	0-3	Well Drained
Cambridge gravelly silt loam (CaB)	Silt Loam	3-8	Moderately Well Drained
Castile gravelly silt loam (CgA)	Silt Loam	0-3	Poorly to Moderately Well Drained
Churchville silt loam (CvA)	Silt Loam	0-3	Somewhat Poorly Drained
Churchville silt loam (CvB)	Silt Loam	3-8	Somewhat Poorly Drained
Hoosic gravelly loam (HgB)	Gravelly Loam	3-8	Excessively Well Drained to Well Drained
Hoosic gravelly loam, rolling (HgC)	Gravelly Loam	3-8	Excessively Well Drained to Well Drained
Madalin silt loam (Ma)	Silty Clay Loam	0-3	Poorly to Very Poorly Drained
Volusia gravelly silt loam (VoA)	Silt Loam	0-3	Somewhat Poorly Drained

The variety of the Madalin silty clay loam (Ma) soil association present within the APE is found on terrain with slopes ranging between zero and three percent. It is located in the eastern portion of the APE and includes locations currently used as pasture. The soil association consists of deep, poorly to very poorly drained, nearly

level soils found on broad, flat plains, or narrow basins of former glacial lakes. Permeability of the soil type is moderate with the depth to the water table ranging between 0.15 and 0.45 meters (0.5 to 1.5 feet) below the surface. The depth to bedrock is usually more than 1.8 meters (six feet) below grade (Tornes 1979).

## 2.4 Flora and Fauna

The project area vicinity is located within the Hudson Valley Ecozone. The predominant pre-European - Native American Contact period habitats present there, and within the project region generally, were upland forests and freshwater marshes (Shelford 1974). Both habitats are still present in the project area vicinity.

Freshwater marshes are present along the edges of lakes, ponds, rivers (such as the Shawangunk River and its tributary, the Dwaarkill), and wherever depressions of land are kept flooded on a regular basis by high water tables. In pre-Contact period freshwater marsh environments, the plant community was typically dominated by reed grass, cat-tail and/or wild rice (the latter made practically extinct in the Ulster County area due to the effects of pollution). All of these would have been important economic plants for Native American groups. Other plants that would have been common in pre-Contact period freshwater marshes were low-growing grass-like sedges, bulrushes, arrow-arum, blue flag, spike rush, bur reed, water dock, marsh fern, orange touch-me-not, and the swamp milkweed (Robichaud and Buell 1973:125-127).

The remaining portions of the Ridge and Valley province in pre-Contact period Ulster County are characterized as upland forest because the most abundant or dominant type of vegetation present were tall growing, deciduous, broadleaf trees (Robichaud and Buell 1973:106). Specifically, the forests are classifiable as Oak-Chestnut and Northern Hardwoods Forests composed primarily of mixed oaks (white, red, and black) with some chestnut trees also present on drier slopes (Shelford 1974:18). Beech, several varieties of hickory, sugar maple, red maple, white ash, pine, and black cherry also would have been numerous (Shelford 1974: 39-40). All of these species were probably present within the project area or its immediate vicinity during the Native American and early Historic periods. Chestnut, oak, and hickory trees potentially could have been exploited by Native American groups for subsistence purposes while some of the other varieties had other economic uses (e.g. medicinal, dwelling construction, craft manufacture, household needs, firewood, etc.).

The presence of American chestnut, and the character of the local forest in general, in the project area vicinity during the seventeenth century is seen from the journal of Robert Juet of Limehouse, an officer on the Half Moon in 1609 during Henry Hudson's voyage up the river that now bears his name. On September 24th -25th of that year, in the vicinity of what scholars now conclude is Hudson, New York, the crew of the Half Moon went ashore and "gathered good store of chestnuts... found good ground for corne and other garden herbs, with great store of goodly oakes, and wal-nut trees, and chest-nut trees, ewe trees, and trees of sweet wood in great abundance, and great store of slate for houses, and other good stones" (Juet 1959:33).

Pre-Contact period faunal species usually present within the Ridge and Valley province's marshes and meadows included various invertebrates, bob-cat, migratory water fowl, and other birds, muskrat, and small rodents, rabbit, raccoon, otter, skunk, opossum, and white-tailed deer (Shelford 1974:40-42; Gosner 1978; Roberts 1979).

Pre-Contact period faunal species present within the forests of the Ridge and Valley province included game birds, small mammals, bob-cat, white-tailed deer, red fox, gray fox, cotton-tail rabbit, snowshoe rabbit, woodchuck, raccoon, red squirrel, gray squirrel, flying squirrel, bear, and during at least a portion of the prehistoric period, elk (Shelford 1974; Canaster and Snow 1977). In the province's freshwater streams, marshes,

and lakes were found mussels, fish, certain amphibians and reptiles, migratory fowl, and semi-aquatic mammals (Shelford 1974). Anadromous fish species would have been present seasonally within the study area vicinity via the Hudson River and its tributaries, particularly the Shawangunk River and its tributary, the Dwaarkill (Goldering 1943:34).

Ellis (1878:23) provides an indication of the richness of the mid-Hudson Valley region in terms of its fauna during the period of early European colonization. He writes:

The woods were alive with game. There were deer, which in the autumn and in harvest-time were "as fat as any Holland deer can be...." There were also wild turkeys of surprising size, and so fearless of man that they often came down to feed with the swine of the colonists. At certain seasons of the year the land was almost overshadowed by wild pigeons of which there were such vast numbers that they sometimes broke down trees of size by roosting upon them. Pheasants, quails, hares, squirrels, and raccoons were found everywhere, and if the desire of the hunter was for more exciting and dangerous sport, he might not infrequently find its gratification in a shot at bear, wolf, or panther.

The great river, and the creeks as well, teemed with the finest fish, among which were shad, and many kinds scarcely less delicious; while in the branches, particularly towards their heads, the trout existed in great abundance. There were plenty of sturgeon too, which, as we are told, "the Christians do not make use of, but the Indians eat them greedily." Herrings there were in myriads, so that if all other sources of supply had been withdrawn from the Indians they could, we are told, have lived on herrings alone, and had abundance.

Juet (1959), in his voyage up the Hudson River in 1609 on the Half Moon, also comments on that river's fish stating that he "saw many salmons and mullets, and rays very great."

### 3.0 DOCUMENTARY RESEARCH - NATIVE AMERICAN PERIOD

The Native American and Native American - European Contact period cultural history of the Watchtower Farms region is provided in Chapters 3.1 and 3.2. This is followed by descriptions of Native American sites and other evidence of Native American activity previously identified in the project area vicinity (Chapter 3.3). Analysis of the Native American archaeological sensitivity of the Watchtower Farms project's APE is provided in Chapter 5.1.

#### 3.1 Background Culture History - Prehistoric Period

The prehistory of the Ulster County region, which includes the Watchtower Farms property, encompasses the PaleoIndian, Archaic, Transitional, and Woodland periods. The PaleoIndian period (10,000-8,000 B.C.) represents the earliest occupation of the southeastern New York region. The Archaic (8,000-1,700 B.C.) refers to a time prior to the introduction of horticulture and pottery manufacture and is divided into Early, Middle, and Late periods. The Transitional period (1,700-1,000 B.C.) witnessed a gradual change in Archaic lifestyles with the development of "Woodland" period traits. The Woodland period (1,000 B.C.-1,600 A.D.), which is characterized by the use of pottery and reliance on horticulture, is also divided into Early, Middle, and Late periods.

The PaleoIndian period corresponds with the end of the Wisconsin glaciation. Sea levels were lower during this period and the subsequent Early to Middle Archaic period due to sea water being trapped in the remaining glacial ice. Local forests consisted primarily of spruce and fir with small amounts of oak and other deciduous species (Snow 1980). Many faunal species now extinct or no longer native to the area were present. These included mammoth, mastodont, horse, caribou, giant beaver, sloth, elk, moose, deer, and peccary (Snow 1980). Within the mid-Hudson Valley region, over 40 complete or partial mastodont skeletons have been revealed over the last three centuries with the first being found in 1705 (Drumm 1963). Many of the skeletons have been recovered from settings within the Wallkill Valley (Drumm 1963). One of the more famous of these is the so-called Peale's mastodont, named after the Peale Museum in Philadelphia, Pa. to which it and other locally recovered mastodont remains were sent during the early nineteenth century. Charles Wilson Peale, the museum's founder, financed the mastodont excavations which were led by his son, Rembrandt. The so-called Peale mastodont was found in 1799 on the farm of John Masten (Drumm 1963:-23; Hasbrouck 1949:8). The farm, and location of the find, was located approximately 17 miles southeast of the Watchtower Farms property along the southern portion of Plains Road in Newburgh, New York.

More mastodont specimens have been recovered from the mid-Hudson Valley region than from anywhere else in the northeast. This has been attributed to the existence of numerous bog/marsh-like environments in the area ca. 10,000 years ago, which preserved the carcass of any unfortunate creature that became trapped. Remains of now extinct mastodont, horse, and deer also have been recovered north of the project area in Greene County (Ritchie 1980:11; Canaster and Snow 1977:10).

Little is known about cultural activities during the PaleoIndian period although it is generally accepted that the region was first inhabited by humans at approximately 8,000 B.C. (Funk 1976; Ritchie 1980). Small nomadic bands of hunters and gatherers subsisted probably on the animal species mentioned previously as well as small game, certain riverine resources, and a variety of plants. Population density, however, was very sparse. A variety of functionally diverse site types, however, have been identified based upon intersite variability of artifact assemblages and environmental setting. These include base camps, quarry workshops, rockshelter habitations, open air hunting camps, kill and butchering sites, and other temporary camps (Funk 1972; Gardner 1974; Moeller 1980; Gramley

1982).

A small number of PaleoIndian sites have been recorded in the mid-Hudson Valley area. The closest to the project area is the Twin Fields site located on a high sandy bluff about 240 yards east and 50 feet above the Dwaarkill in Wallkill (Eisenberg 1978:79-92). The site has been assigned the NYSOPRHP archaeological site number A11117.000136. The site is located approximately two and a half miles northwest of the Watchtower Farms project area. The NYSOPRHP designated zone of sensitivity for the Twin Fields site, however, extends to within two miles of the current project property. One hundred and twenty-one Paleo-Indian related artifacts, including two broken fluted points, three other bifaces, and 110 unifaces, and nearly 1,000 pieces of related lithic debitage were recovered from the multicomponent site.

Other Paleo-Indian sites in the region are located on terraces of the Wallkill River Valley in the New Paltz vicinity, about 13 miles northeast of the Watchtower Farms property (Eisenberg 1973:11). PaleoIndian occupations also have been identified at the multi-component West Athens Hill and Railroad sites located north of the project area in Greene County (Ritchie and Funk 1973:29-36; Funk 1976: 205-206, 211; Ritchie 1980:3, 6). The PaleoIndian components at the sites date to some point between ca. 10,000 and 8,000 B.C. and have been functionally identified as camp sites and lithic workshops. West Athens Hill is located on a ridge summit while the Railroad site is located on higher ground bordering Corlaer Kill. Other PaleoIndian sites in the region are located in Greene County (Kings Road site) and Orange County (Dutchess Quarry Cave site; Funk 1976; Ritchie 1980).

Most evidence of PaleoIndian activity, however, comes from scattered surface finds of Clovis Fluted points, a diagnostic PaleoIndian artifact (Funk 1976:205).

Information from known PaleoIndian sites in the New York - New Jersey - Pennsylvania region suggests that raised, well-drained areas near streams or wetlands were the areas preferred for occupation. Portions of the project area vicinity during the late glacial and early Holocene periods would probably have fit such a topographic and physiographic description. Rock shelters, areas near lithic sources, and lower river terraces also were subject to PaleoIndian occupation and use (Werner 1964; Funk 1976; Moeller 1980; Ritchie 1980; Marshall 1982; LaPorta 2000).

During the Archaic period (8,000-1,000 B.C.), the environment changed from spruce to pine dominated forests to an increasingly deciduous forest which achieved an essentially modern character by 2,000 B.C. (Salwen 1975). While Archaic cultures have been traditionally thought of as reflecting a forest-based adaptation, more recent research has produced a picture of an increasingly varied subsistence pattern based on the seasonal exploitation of various faunal and floral resources (Ritchie and Funk 1973; Funk 1976; Kraft 1986; Starbuck and Bolian 1980). During this period, the project property probably was a forested and wetland covered tract.

Archaic hunters and gatherers were still nomadic and organized into small bands which occupied localities along the Hudson River and its tributaries, including the Wallkill River (see Eisenberg 1973:11), during the warmer months and interior regions during the colder months (Ritchie 1980). In the vicinity of the project area, the range of reported site types associated with the Archaic period is limited to rockshelters and campsites such as the Rural Cemetery site, Lake Minnewaska Rockshelter, Graycourt Rockshelter, Sheep Shelter Rockshelter, and White Rabbit Rockshelter (Funk 1976; Hauptman 1975; Ritchie 1980). The closest of these to the project area is the Rural Cemetery site, a multi-component Middle to Late Archaic to Late Woodland site located on a broad terrace along a bend of the Wallkill River north and west of the project area (Funk 1976:147).

Population growth throughout the period resulted in an increase in both site density and the number of functional site types represented in the archaeological record. Site types recognized for this period include spring fishing

camp along major streams, fall open air hunting camps, rockshelter habitations, subsistence related processing stations, mortuary sites, quarry and workshop sites, and semi-permanent villages (Dincause 1976; Barber 1980; Ritchie 1980; Snow 1980). Ritchie states that most Archaic sites are small and multi-component, lacking traces of substantial dwellings, fortifications, storage pits, and graves (Ritchie 1980:32 and 35). Evidence of house patterns attributable to the Late Archaic period, however, has been reported from the Howard site in Old Lyme, Connecticut near Long Island Sound (Pfeiffer 1983).

In the vicinity of the project area, the range of reported site types associated with the Archaic period is limited to small temporary camps near the Hudson River and its major tributaries and rock shelters in the interior (Funk 1976; Ritchie 1980).

Most information concerning the Archaic period comes from Late Archaic sites since evidence for Early and Middle Archaic sites in the region is almost as scarce as for PaleoIndian sites.

Sites dating to the Transitional period (or Terminal Archaic; 1,500 - 1,000 B.C.) are most frequently found near major streams but a limited number of interior campsites, probably representing winter habitations, also are known (Funk 1976; Ritchie 1980; Vargo and Vargo 1983). Early Transitional period site locations tend to be located in interior areas, well removed from the Hudson River. However, late in the period, groups apparently did use higher ground near that waterway as evidenced by a larger number of sites found in such settings (Funk 1976:266). New and radically different broadbladed projectile point types appeared during this period as did the use, during the latter half, of steatite (soapstone) vessels.

In the project area region the range of reported site types associated with this period is limited to interior rock shelters and small temporary campsites located near Hudson River confluences (Funk 1976:). Transitional period components have been found at the Sheep Shelter Rockshelter, Quarry Glen Rockshelter, Greycourt Rockshelter, Doodletown Rockshelter, Shagabak site, the Sylvan Lake Rockshelter, the Nicoll Farm site, the Rural Cemetery site, Dunderberg site, and the Lotus Point site (Funk 1976).

During the Early Woodland period (1,000 B.C. - A.D. 1), the use of fired clay ceramic vessels gradually replaced the reliance on steatite vessels. Subsistence practices included a continuation of the hunting, gathering, and fishing of the Archaic but were supplemented by an increase in shellfish collecting. It has been suggested that this indicates a trend towards more sedentary lifestyles (see Funk 1976; Snow 1980).

Early Woodland sites in the Hudson Valley region are rare. Such sites are usually located along the Hudson River or its major tributaries (Funk 1976) although some (see below) have been identified in adjacent interior areas east and west of the Hudson River (Funk 1976:116-123, 277-278).

Human populations during the Middle Woodland period (A.D. 1- A.D. 900) gradually adopted a more sedentary lifestyle. Although it is generally felt that subsistence was essentially based on hunting and gathering supplemented by fishing, there has been speculation that domestication of various plants occurred during this period (Ritchie and Funk 1973; Snow 1980). Most Middle Woodland sites are located along the Hudson River or its major tributaries although smaller inland sites also are known (Funk 1976; Ritchie 1980). Middle Woodland components have been found at the Bear Mountain Railroad Station Rockshelter, Shagabak site, the Sylvan Lake Rockshelter, and the Rocky Point site (Funk 1976).

By Late Woodland times (A.D. 900 - A.D. 1600) horticulture was the primary subsistence base and permanent villages existed. Use was still made, however, of temporary and special purpose campsites (Ritchie 1980; Snow 1980). Most Late Woodland sites are located along the Hudson River or its major tributaries although smaller

inland sites also have been recognized (Funk 1976).

Late Woodland period cultures in the middle reaches of the Hudson River are little known. Owasco or Owasco-like groups apparently inhabited the mid-valley area during the early portion of the period although no large villages have been identified. The latter portion of the Late Woodland period in the mid-Hudson Valley saw the advent of groups with characteristics both similar and divergent to proto-Iroquois cultures of central and western New York State suggesting that the "linguistic and political divisions of the Contact period" have some time depth (Funk 1976:300-02). These groups are referred to as belonging to the Oak Hill or Chance phases.

Late Woodland cultures are defined on the basis of ceramic typologies developed by Ritchie (1980), MacNeish (1952), Lenig (1965) and Tuck (1968). In the project vicinity, Late Woodland components have been identified at the Greycourt Rockshelter, Suffern Rockshelter, Quarry Glen Rockshelter, Doodletown Rockshelter, White Rabbit Rockshelter, Dunderberg site, Nicoll Farm site, Shagabak site, the South Cruger Island site, the Hurley site, the Rural Cemetery site, and the O'Rourke Burial site (Funk 1976).

### **3.2 Native American - European Contact Period**

The documentary history of the Ulster County vicinity, which includes the project area, begins with the information recorded by early settlers concerning the Native American groups who occupied the area when Europeans first arrived in the early seventeenth century.

The Contact period (A.D. 1600 - ca. 1750) is the time of the first large scale contacts between Native Americans and European colonists (see Salwen 1978). By the latter part of the Late Woodland period Native American cultures began to resemble those of groups that were encountered by seventeenth century Europeans. At this time Native Americans of the mid-Hudson Valley region (including the project area) were part of the widespread Algonquian cultural and linguistic stock. Specifically, they were a group of Munsee (Minsi) speakers who migrated into southeastern New York and southwestern Connecticut during Late Woodland times (Ruttenber 1872; Bolton 1975; Swanton 1952; Goddard 1978a; 1978b; Salwen 1978; Salomon 1982). The Munsee speakers were a linguistic sub-group of the Lenape and referred to by the English as Delaware. The English appellation derived from the river named in 1610 by Captain Samuel Argall of the pinnace Discovery in honor of Thomas West, Lord de la Warr, the second Governor of Virginia (Weslager 1967; Salomon 1982:15). The Unami and the Unalachtigo were the other two sub-groups of the Lenape.

Originally the name Lenape (and Delaware) was applied only to the Unami-speaking bands. By the mid-eighteenth century, it had become associated with the Munsee, Unami, and Unalachtigo speaking bands which had migrated away from their traditional homelands and merged.

The Lenape consisted of autonomous, loosely related bands or lineages living in small family groups or hamlets (Kraft 1975:61). They never formed a politically united tribe. The origin of the name "Lenape" is unclear. Goddard (1978b:236) states that the name translates roughly as "real people." Salomon (1982:14) agrees in a general sense stating that the name means "the real men" or "common people." "Lenapehoking" (The Land of the Lenape) was reportedly the aboriginal name for the territory that they occupied (Kraft 1984:1).

The Munsee composed a relatively large, loosely related group who shared the same totemic symbol, the wolf (Ruttenber 1872:47). Their settlements included camps along the major rivers with larger villages located at the river mouths (Salomon 1982; Kraft 1986). Small hunting, gathering, and agricultural sites were located in the



interior. Despite references to such sites by early European explorers and settlers, few Contact period sites have been identified in the region.

Robert Juet, an officer on the "Half Moon", provides an account in his journal of some of the Contact period Hudson Valley Native Americans who may have been Munsee. In his entries for September 4th and 5th, 1609 he states (Juet 1859:28):

This day the people of the country came aboard of us, seeming very glad of our coming, and brought greene tobacco, and gave us of it for knives and beads. They goe in deere skins loose, well dressed. They have yellow copper. They desire cloathes, and are very civill. They have great store of maize or Indian wheate whereof they make good bread. The country is full of great and tall oakes.

This day [September 5, 1609] many of the people came aboard, some in mantles of feathers, and some in skinnes of divers sorts of good furies. Some woman also came to us with hempe. They had red copper tabacco pipes, and other things of copper they did wear about their necks. At night they went on land againe, so wee rode very quite, but durst not trust them.

The crew of the Half Moon distrusted the aboriginals since the previous day one of their members, John Coleman, was killed and two others wounded by Native Americans while exploring the Hudson River in a small boat (Ruttenber 1872:9). The exact circumstances of this violent confrontation are not fully recorded. The confrontation supposedly occurred off shore in the vicinity of the area now referred to as Coleman's Point, New Jersey.

The political, linguistic, and social relationships that existed among the various bands of Munsee speakers will probably never be fully understood for a number of reasons. This is particularly true for the bands inhabiting the relatively unexplored and unknown areas west of the Hudson River (Goddard 1978b: 213-215). The Native groups themselves had no fixed boundaries and "ownership" of particular areas may have overlapped with use rights shared. Euro-American colonists also frequently misunderstood and misrecorded Native American associations with particular areas. Finally, early pressure on some Native American groups by colonial expansion probably resulted in frequent shifts of villages and territories. In general, however, Munsee speakers were composed of five autonomous, loosely related sub-groups living in small familial groups or hamlets who, as mentioned above, shared the same totemic symbol, the wolf (Kraft 1975:61; Ruttenber 1872:50; Salomon 1982:14). Hunter (1959:15) suggests that the Munsee bands may have been joined in a loose confederacy.

Also elusive is knowledge of the exact territories that the various Munsee bands inhabited. The area they traditionally occupied extended south of the Catskill Mountains to a line drawn from the headwaters of the Lehigh, Delaware, and Susquehanna Rivers in Pennsylvania through the Delaware water gap area, to the Raritan River in New Jersey, and eastward to approximately the current New York - Connecticut State border and the New York City - Nassau County border (Goddard 1978a:214).

A deed dated May 5<sup>th</sup>, 1683, calls the land on the west side of the Hudson River in the vicinity of Poughkeepsie "Minissingh" (O'Callaghan 1846:571) while Beauchamp (1900) indicates that the territory of the Munsee extended from the Catskill Mountains to the head waters of the Delaware River and east to the Hudson River (Ruttenber 1875:50).

In the Hudson River watershed of present day Ulster and Orange Counties, the Munsie were known as the Esopus. Their population during the early Contact period was estimated to have been about 300 individuals (Becker 1993:18). In the Ulster – Orange Counties region, they traditionally were divided into smaller political and dialectic groups or bands (Goddard 1978b; Salomon 1982). Little is known about these divisions. Five main groups or chieftaincies, however, are recorded: the Waoraneks, the Warranawonkongs, the Mamekotings, the Wawarsinks, and the Katskills. The Munsee group traditionally situated in southern/eastern Ulster County (including the project area) and Orange County were the Warranawonkongs (Ruttenber 1872:94 – 95; Figure 7). At what point their territory ended and that associated with other Esopus groups began is unknown.

Problems and conflicts during the seventeenth century between the Indians of the Hudson Valley area and the Dutch resulted in the deaths of large numbers of Native Americans (Hodge 1910; Washburn 1978). The introduction of European diseases such as smallpox further devastated the local Native American populations. By 1766, the Esopus reportedly had deeded away all of their lands in the mid-Hudson Valley. In 1774, the entire Native American population on both sides of the mid-Hudson River Valley numbered around 300 people (Pelletreau 1886: 8). By 1910, only 914 Delaware and 71 Munsee were recorded by the United States Census as living in the United States (Swanton 1952:55).

### **3.3 Native American Sites and Activity in the Project Area Vicinity**

The name Shawangunk reportedly derives from the Contact period Native American term “Sawankonck” or “Shawengongh” but its translation apparently is uncertain. Various meanings for it have been proposed over the last century and a half including “the place of the stream”, “strong stream”, “mink river”, “the place of leeks”, the place of the white man”, “the place of white rocks”, “the place of the south waters”, “swift current”, “south mountain”, and “white mountains”(White 1988:10; Hasbrouck 1955:4). According to White, the term initially applied to the bottomland flats around the confluence of the Shawangunk Kill and Wallkill River near Ganahgote. In the project vicinity, this area begins about five and a half miles to the northeast of the Watchtower Farms property. The noted avocational archaeologist Arthur C. Parker, identified one Native American village site in that area (Parker 1922:704:Site Number 23; Figure 8). It is situated on raised terrace - like ground overlooking the Wallkill River to the west. Shawangunk River’s joins the Wallkill River in this area from its west side. South of the site area flows a small unnamed tributary of the Wallkill River, joining that waterway from the east.

In the Watchtower Farms’ project vicinity, eight other locations that contain evidence of Native American activity previously have been identified in the site files of the New York State Museum (NYSM) or the New York State Office of Parks, Recreation and Historic Preservation (NYSOPRHP 2008). In addition, one Historic period archaeological site is included in the NYSOPRHP site files for the project vicinity.

The closest evidence of Native American activity to the current project’s APE is the single chert flake recovered during a Phase I archaeological investigation of a parcel located on raised ground overlooking the Shawangunk River. The find was recovered about two miles southwest of the current project’s APE (Cammissa, Cammissa, and Padilla 2006; see Chapter 1.2).

The nearest previously identified archaeological site to the current project’s APE is a camp site with a stationary mortar overlooking the Dwaarkill. The site, which was assigned the NYSM archaeological site number 7909, is located approximately 1,700 feet northwest of the Watchtower Farms project area.

The other identified Native American sites in the project vicinity are:

- **The Middle to Late Archaic Old Fort Riding Academy Number 2 site (NYSM #557).** Lamoka and Vosburg style projectile points as well as “fire pits” were associated with the site which is located a little more than one mile east of the Watchtower Farms project’s APE. The NYSOPRHP (2008b) identified area of archaeological sensitivity surrounding the site, however, extends to within 3,200 feet of the current project area.
- **The Woodland period Old Fort Riding Academy Number 1 site (NYSM #558).** There, Woodland period projectile points were recovered from a plow zone context with lithic debitage recovered from the sub-soil transition layer. The site is located less than one and a quarter miles east of the Watchtower Farms project’s APE with the NYSOPRHP (2008b) identified area of archaeological sensitivity for the site extending to within 3,200 feet of the current project area.
- **The New Fort habitation site (NYSM #5059),** located a mile and a quarter east of the current project area. The NYSOPRHP identified area of archaeological sensitivity for the site, however, extends to within 3,200 feet of the current project’s APE. The site was identified by Parker (1922: 704: Site Number 24; see Figure 8). New Fort, located in the Town of Shawangunk was associated with a “stronghold” that reportedly was located on a “sandy plateau about 75 feet above...” the east bank of Shawangunk River, about two miles south of Bruynswick (Parker 1922:706: Number 20). The stronghold reportedly was the Contact period fort of the Esopus referred to at the time as “New Fort” (Mauritz 1988:12). As of 1663, the fort was described as a “perfect square with one row of palisades set all around being about fifteen feet above, and three feet under ground” with Native Americans completing “two angles of stout palisades, all of them almost as thick as a man’s body, having two rows of portholes, one above the other, and they were busy at the third angle. These angles were constructed so solid and strong as not to be excelled by Christians” (Anonymous n.d.a). The fort also was described as “containing several strongly-built houses, and enclosed by three rows of palisades” (Sylvester 1880:157). According to Mauritz (1988:12), “Many arrow heads and other Indian relics have been found at the location of the New Fort.” The fort reportedly was attacked and destroyed by the Dutch in September of 1663 during the Second Esopus War, but only after its Native inhabitants had withdrawn. Twenty-three woman and children colonists, who had been captured by the Natives during a raid on Wiltwyck (modern-day Kingston) in June of that year, reportedly were rescued during the assault (Sylvester 1880:157; Mauritz 1988: 4). A number of corn fields also reportedly were destroyed along with the fort. A Native American trail reportedly extended past the fort along the Shawangunk River (Ruttenber 1872:149-152 and 391). Such a trail would have brought Contact period Native Americans, and possible those of earlier cultural periods, into the immediate vicinity of what is now the Watchtower Farms property.
- **NYSM # 5682** is located about one and eight tenths miles southeast of the current project area. It is situated on raised ground overlooking a wetland. The site is described as containing Woodland period pottery and pits. The NYSOPRHP (2008b) identified area of archaeological sensitivity for the site extends to within one and a third miles of the current project area.
- **NYSM #5680** is located approximately one and three quarter miles southeast of the current project site. No other information is available concerning it. The NYSOPRHP (2008b)

identified area of archaeological sensitivity for the site extends to within one and a third miles of the current project area.

- **The multi-component Twin Fields site (NYSOPRHP # A11117.000136)**, previously mentioned in Chapter 4.1. The site, which contains a Paleo-Indian component, is located on a high bluff overlooking the Dwaarkill, about two and a half miles northwest of the current Watchtower Farms project area. The NYSOPRHP (2008b) identified area of archaeological sensitivity for the Twin Fields site extends to within two miles of the project area.
- **A Native American habitation site**, reportedly containing a late Contact period component, was identified east of Plains Road, immediately north of its intersection with Ulster County Route 300 (White 1988:18). The reported location of the site consists of raised ground overlooking a stream. It is located approximately ten miles southeast of the project area. The general area consists of relatively level ground situated on a terrace - like topographic feature extending from the base of a ridge. A small unnamed stream flows north and west of the general site area.
- **A habitation site** in the Town of Shawangunk is noted by Parker on raised ground overlooking the Wallkill River within the Hamlet of Wallkill (Parker 1922:706: Number 20; Figure 8). The general site area is less than six miles southwest the current project area.
- **Another habitation site** Parker (1922:22; Figure 8) describes as located in the Town of Gardiner near Libertyville, on raised ground along the west bank of the Wallkill River, about six miles northeast of the current project area. Beauchamp (1900) also mentions this occupation in his list of Native American sites in New York State. The general area consists of northward trending rising ground across which flows a small unnamed tributary of the Wallkill River.

According to NYSOPRHP (2008b) archaeological site information, another zone of Native American period archaeological sensitivity is located southeast of the current project area, extending to within one and a half miles of the current project's APE.

The single previously identified Historic period site in the project area vicinity is the E. Jansen/G. Schoonmaker Historic House site (NYSOPRHP # A11117.000191). It is located a little less than two miles southeast of the current Watchtower Farms project site. The site is a pre-1858 domestic occupation and contains fieldstone foundations for a house and barn, handmade bricks on the surface, and an associated mill dam (Diamond 2006).

The eastern Shawangunk area during the late eighteenth century was part of a vicinity referred to as "Flint" (see Chapter 4.3) apparently in reference to the likely presence of "flint rock" in the area (see Hasbrouck 1949, 1955:7). The implication of this for the presence of Native American lithic exploitation sites in the area, particularly along local ridges is unknown.

Other evidence of Native American activity in the general project area vicinity is seen from early Contact period accounts that described the Shawangunk region as the "granary of the Esopus" (Sylvester 1880:156). This description suggests that many locations along the floodplain and terraces of the Shawangunk and Wallkill Rivers and their tributaries were under cultivation by Native Americans. Short term habitation and camp sites likely were associated with many, if not all, of the cultivated areas. Such a use for the Shawangunk River's floodplain would

have brought Native Americans into the immediate vicinity of the current project area.

A Contact period Native American trail reportedly extended along the Shawangunk River (Ruttenber 1872:149-152 and 391). Branching travels also likely extended along the tributaries of this river, such as the Dwaarkill. While such trails were reported during the European-Native American Contact period by early explores and settlers to the area, it is likely that the paths had some time depth, extending back to at least the Late Woodland period. Such pathways would have brought Native Americans into the immediate vicinity of the current project area.

#### 4.0 DOCUMENTARY RESEARCH - HISTORIC PERIOD

The Euro - American history of the region which includes the Watchtower Farm project's APE is presented in Chapters 4.1 - 4.5. This is followed in Chapter 4.6 by a discussion of the nineteenth and early twentieth century occupational history of the property area. Analysis of the Historic period archaeological sensitivity of the project area is presented in Chapter 5.2.

#### 4.1 Early European Settlement of the Shawangunk Area

As far as is known, the area that now comprises Ulster County was first viewed by Europeans on September 15, 1609 when Henry Hudson and the crew of the Half Moon on their way up the river that would bear his name sailed passed its shores (see Juet 1959:31). On September 30, 1609, during the return voyage, Robert Juet, first mate on the Half Moon, while anchored in what was to become Newburgh Bay, provided the first written description of the mid-Hudson Valley area stating that it was "...a very pleasant place to build a Town on" (Juet 1959:35). During the remainder of the seventeenth century, first explorers and later traders, settlers, merchants, and others during their travels on the Hudson River sailed passed the wooded shores that would become Ulster County. Some must have stopped for brief periods but these landings are unknown.

Settlement of Ulster County throughout the seventeenth century was slow due to the rugged and mountainous nature of much of the area restricting travel to seasonal movements along the Hudson River, the presence of unfriendly, if not hostile, Native American groups, lack of roads, and the remoteness of the region from other settled areas. As early as 1614, the Dutch had established a trading post at present day Rondout. It was soon abandoned, however, due to hostilities with local Native Americans. A second post was established sometime between 1630 and 1640 but also was abandoned. In 1660, following the end of the First Esopus War, a conflict between the Dutch and local Native Americans, a third attempt was made to settle the Rondout - Kingston area. Peace, again, did not last. Three years later, in 1663, local Native Americans attacked the Kingston area and the Second Esopus War broke out (French 1860:661).

During 1684 and 1685, the land that now comprises the Town of Shawangunk was purchased by the English Governor Dongon and a number of partners from local Native Americans. Although details of the sale are sketchy, the acquired lands extended from the Paltz Patent on the north to Murderers Creek (now referred to as Moodna Creek) on the south, and from the Hudson River on the east to the Shawangunk Mountains on the west. The tract was to be organized into the Manor of Fletcher. The deed for the transaction stated that lands already occupied, or which had been previously purchased from the Governor, would be excluded from the Manor, implying that some areas within the tract already had been settled (Hasbrouck 1955:4). The locations of these farmsteads, however, is unknown. A patent for the lands apparently was never acquired by Dongon and the Manor never officially established. Most of the tract remained undeveloped during this period, particularly areas away from the fertile valley bottomlands.

Increasing settlement throughout New York Province required the establishment of new administrative units. On November 1<sup>st</sup>, 1683, by an act of the inaugural session of the New York General Assembly, the colony's original counties came into existence. Ulster County was one of the original counties, named after the English Earl of Ulster (Flick 1934:332). The other counties were New York, Westchester, Orange, Albany, Dutchess, Richmond, Kings, Queens, and Suffolk Counties (Flick 1934:332). Ulster County at this time included what is today Delaware County and much of the northern part of Orange County.

In 1694, the English Governor Fletcher, in the name of the English sovereigns William and Mary, granted to Captain John Evans the lands included in Dongon's purchase. Evans probably helped his cause by bribing Fletcher to conclude the grant. Between 1692 and 1698, Fletcher reportedly awarded numerous tracts in the colony to individuals for payment of bribes. In 1698 and 1699, in an effort to combat corruption, the new English Governor, Richard Coote, Earl of Bellomont, revoked all of Fletcher's grants west of the Hudson River. Governor Bellomont also imposed a limit of 2,000 acres for each new land grant awarded in the area. Bellomont's actions were confirmed by the General Assembly, which annulled Evans' Patent on May 12, 1699.

The earliest recorded settlers in the Shawangunk area reportedly were Gertrude Bruyn (and possibly her husband, Jacob) and three of her children. They moved to the area of "Sawankonck" (see Chapter 3.3) sometime between 1682 and 1687 after purchasing a tract from local Native Americans (Sylvester 1880:157-158; Foote 1907:379). Their house was located north of the Kleyne Kill, a tributary of Shawangunk River, within what is now the Town of Gardiner (White 1988:10). Other Dutch settlers were establishing farmsteads along the Shawangunk River between 1690 and 1700 (Hasbrouck 1955:10) although other scholars indicated that settlement along the creek occurred as early as 1680 (Sylvester 1880:157; Mauritz 1988:15). If the earlier date is accurate, such settlements could be the occupations inferred in the deed for the land transaction between Governor Dongon and local Native Americans. During this period, the project area probably remained an undeveloped tract.

#### **4.2 Early to Mid-Eighteenth Century Period**

The English Queen Ann formally approved Bellomont's grant revocations and other actions in 1709. Between 1710 and 1730, most of the territory formerly within Evans' Patent was conveyed in small tracts to a number of individuals (Hasbrouck 1955:9). By the latter year, at least 18 such grants had been awarded, mainly to Dutch, Norwegian, English, Scotch-Irish, and German immigrants (Hasbrouck 1983:388). The project area was part of a 10,000 acre tract awarded to P. Jeremiah Schuyler (or Scuyler) and Company on June 22, 1719 (Anonymous n.d.b; White 1988). Schuyler and his partners likely acquired the tract for speculation (Figure 9).

The anticipated need for local political and administrative units resulted in the formation of the Precinct of Shawangunk in 1709. The Precinct's population, however, was still small. Accordingly, it was attached to the New Paltz Precinct for administrative purposes. The Precinct of Shawangunk was separated from that precinct on December 27, 1743 (Hasbrouck 1955:6), probably due to an increase in the local population. After 1709, the area's population did slowly increase due in large part to emigration to the area by French Huguenots and German Palatines (Mauritz 1988:19).

The primary occupation within Ulster County during the eighteenth century was farming, particularly wheat cultivation. Other occupations included mill operations along the Wallkill River, Shawangunk River, and other tributaries, seasonal maple sugaring, potash production, and fur trapping (White 1988:18). By the mid-eighteenth century, the project area may have been cultivated or served as pastures, and/or wood lots.

#### **4.3 The Revolutionary War Years**

During the period of the American Revolution the Shawangunk region was included in the area generally referred to as "The Flint", which was centered at the intersection of Plains Road and New Hurley Road (Ulster County Route 20), approximately five miles east of the current project area. The general community includes parts of the current Towns of Shawangunk and Plattekill. According to Hasbrouck (1955:7), the origin of the name is

unknown but likely refers to the reported presence of "flint rock" in the vicinity. (The implications of this for Native American utilization and exploitation of locally available lithic resources is uncertain - see Chapter 3.3.; Hasbrouck 1949:65).

Closer to the project site, the little community of Dwaarkill, located about a mile north of the current project area, had developed by 1779, consisting of a tavern, blacksmith, mill, and at least two houses.

During the American Revolution, Ulster County witnessed bitter conflict. Although primarily in American control for much of the war, Loyalist and Native American forces frequently raided the western part of the county (Graymont 1972). Tragedy also struck the county on October 16, 1777 when British troops under General Vaughn burned Kingston after sailing up the Hudson River. The British advance up the river was an attempt to aid the beleaguered British army commanded by General John Burgoyne. To the dismay of local Loyalists, however, instead of continuing northward after burning the town, the British returned to New York City.

Continental forces and militia were quartered in the eastern/southern Ulster County - Orange County region throughout the American Revolution. In particular, encampments were located in Kingston, Newburgh, New Windsor, Hurley, and other locations. Troops and teamsters with supplies likely were a common sight in the project vicinity.

The 1779 Sauthier map depicts the project area just to the west of a bend in the Shawangunk River and east of the "Gunks" (Shawangunk) mountain range. The map does not indicate the presence of structures within that area as of that year. The population of the Shawangunk Precinct was small, with only 1,343 individuals (717 males and 626 females) residing there as of 1782 (Foote 1907:379; Hasbrouck 1955:6). This number also includes people living within what is now the western portion of the Town of Gardiner, which until 1853 was part of Shawangunk. Many, if not most, of these people were living along the Wallkill River or its tributaries.

Portions of the project area likely were farmed during this period or used as pastures and wood lots.

#### **4.4 The Post-Revolutionary War Years**

Ulster County was sub-divided by an Act of the New York State Legislature on March 7<sup>th</sup>, 1788. By the statute, Towns were created in the county and the former Precinct of Shawangunk became the Town of Shawangunk.

Present-day Ulster County took form in 1798 when the New York State Legislature joined southern Ulster County to Orange County (Ruttenber 1875:27). During this period, Ulster County, including the project vicinity, retained its rural and agricultural nature, producing mainly wheat. A shift to dairy farming began in the county beginning around 1790. The Dwaarkill crossroads area, just north of the current APE, was developing into a local commercial center during this period (Hasbrouck 1955).

Portions of the project area likely was farmed during this period or used as pasture.

#### **4.5 The Nineteenth to Early Twentieth Century Period**

By the first third of the nineteenth century, dairy farming had replaced crop (primarily wheat) agriculture in the Ulster County area with much of the milk being converted to butter. Most farmers were no longer practicing subsistence farming but were raising a cash crop. With the arrival of the Ulster and Delaware County Railroad to



Ulster County in 1868, milk was shipped directly to markets in New York City and elsewhere (Mauritz 1988:66). Orchards also were established throughout the county. Other industries also flourished, such as the small coal mining operations that were centered along the Shawangunk Mountain ridge. The center of the coal mining operations were located about six miles west/southwest of the current project's APE.

By 1860, the Town of Shawangunk's population had grown to 2,870 people but by 1870 had dropped to 2,823 people, declining further five years later (1875) to 2,793 (Foote 1907:379). Although still small, by 1880 the population had increased to 2,910 people and by 1890 to 3,561 people (Foote 1907:379; Hasbrouck 1955:7). As of 1906, the town's population had again declined to 2,467 individuals (Foote 1907:379). As of 1880, however, the population of the Dwaarkill area was only 112 (Hasbrouck 1955:6). Most of the Shawangunk population lived along the Wallkill River Valley and its tributaries.

Throughout this period, the current Watchtower Farms project's APE probably was cultivated and/or used as pasture.

#### **4.6 Mid-Nineteenth to Early Twentieth Century Occupation of the Study Area**

In order to investigate the history of Euro-American land use within the present day Watchtower Farms Improvements project area, maps showing the pertinent section of the Town of Shawangunk in Ulster County were consulted. It was determined that all of the maps analysed indicated the intersection of what are today Red Mills Road and Steen Road. The maps also show the Shawangunk River and Dwaarkill and their confluence. The current project' APE is located a few hundred yards southwest of the intersect and confluence (Figure 1). The maps also show the corporate boundary between Orange County and Ulster County. The current project area is located less than a half mile north of that border (Figure 1).

No structures are shown on any of the maps analysed for this study as being located within the current project APE. The maps reviewed are the 1829 Burr map (Figure 10), 1853 Tillson and Brink map, the 1875 Beers map (Figure 11), and the 1903/1925 United States Geological Survey map (Figure 12; see Chapter 8.0 for full citations).

The 1829 Burr map shows the confluence of the Shawangunk River and the Dwaakill. It also shows the road that is now known as Red Mills Road. Although the map does not show structures, it does indicate land ownership. Given the scale of the map, what is now the current project area is included within a tract owned by Jason Sackett (Figure 10).

The 1853, 1875, and 1903/1925 maps show no structures in the area north/west of Red Mills Road and northwest of the confluence of the Shawangunk River and the Dwaarkill (Figures 11 and 12). The maps indicate that the nearest structures to the current APE are the three residences located south/east of Red Mills Road, outside of the current APE. These buildings are too far removed to reasonably expect that domestic-type deposits associated with their occupations would have formed within the project area.

By 1963, the current project area was included within a farm owned by an individual named Goebel (Watchtower Bible and Tract Society of New York, Inc. 2007). It was from that individual and in that year, that the current owners of the property, the Jehovah's Witnesses Watchtower Bible and Tract Society of New York, Inc., acquired the land.

## 5.0 ASSESSMENT OF ARCHAEOLOGICAL SENSITIVITY AND RECOMMENDATIONS

### 5.1 Native American Period Sensitivity

Native American sites have not been recorded within the Watchtower Farms Improvement project area or its immediate vicinity. Sites that have been recorded in the region are restricted to raised ground overlooking some of the areas rivers and wetland. Such areas of high ground overlooking watercourses traditionally have been considered sensitive for the presence of Native American sites.

The current or former environmental setting of most, if not all, of the current project area is similar to that of the known archaeological sites. Specifically, these are the property's terrace-like locations and other relatively level, raised areas overlooking the Shawangunk River, Dwaarkill, and their tributaries, as well as local wetlands. Such locations within the current APE, where undisturbed, are considered to be highly sensitive for the presence of Native American cultural resources.

Large portions of the APE north of Red Mills Road, however, have been disturbed as a result of the construction of the existing Watchtower Farms facility, particularly the area extending from just west of the Dwaarkill to the main access road. Numerous multi-story buildings are clustered there. Their location constitutes the developed portion of the APE (see Chapter 1.1). Located in the area are staff residences, office buildings, dining areas, laundry/dry cleaner building, printery buildings, vehicle and other maintenance buildings, recreational areas, parking areas, pathways, roadways, installed utilities, and landscaped grounds. The developed area constitutes the northern, eastern, and northwestern portions of the APE and is indicated on Figure 4 as Zone A. The amount of construction that has occurred in these portions of the APE would have disturbed or destroyed any Native American sites that may have been present.

Two other portions of the APE have not been previously disturbed to any great extent. These areas also consist of raised ground overlooking waterways and, accordingly, are considered sensitive for the presence of Native American resources. The two, relatively undisturbed, archaeologically sensitive areas within the project APE are:

- The existing fenced pasture and adjoining recreational fields north of Red Mills Road in the western and northwestern parts of the APE. The pasture formerly was cultivated but construction or other development activities have not occurred there. An intermittent stream extends through the area. The Shawangunk River is located to the south. Any Native American period resources present there likely remain as plow zone sites with possible sub-plow zone features and other deposits also present. This area is indicated on Figure 4 as Zone B. The area is the proposed location for a new residence building, garage, and recreational facility as well as installed utilities, pathways, roadways, and landscaped grounds;
- The existing pasture, agricultural field, and landscape grounds in the southern portion of the APE, south of Red Mills Road. The area overlooks the Shawangunk River, located about a 100 yards to the south and east. The pasture and landscaped grounds formerly were cultivated but large scale construction has not occurred there. The APE in this area consists of the proposed route of a waste water utility leading from Red Mills Road to an existing sewage treatment plant. The route through the archaeologically sensitive area is approximately 850 feet long and 10 feet wide. Any

Native American period resources present there likely remain as plow zone sites with possible sub-plow zone features and other deposits also present. This area is indicated on Figure 4 as Zone C.

Accordingly, even though most, if not all, of the Watchtower Farms project property formerly was archaeologically sensitive for Native American sites, prior construction within the developed portion of the APE, north of Red Mills Road (Zone A), would have disturbed or destroyed any Native American period resources present there. Therefore, Zone A is no longer considered to be archaeologically sensitive.

Zone B (the fenced pasture and recreational areas) in the western and northwestern portions of the APE, north of Red Mills Road, consists of terrace-like areas and other raised ground overlooking an intermittent stream and the Shawangunk River. The area has undergone little or no disturbance (other than cultivation) and is considered to be sensitive for the presence of Native American sites.

Zone C (the route of the waste water pipe past the agricultural field, landscaped grounds, and pasture), south of Red Mills Road in the southern part of the APE, consists of terrace-like land and other high ground overlooking the Shawangunk River. The area has undergone little or no disturbance (other than cultivation) and is considered to be sensitive for the presence of Native American sites.

## **5.2 Historic Period Sensitivity**

No indication was found during the research conducted for this investigation for the presence of any Historic period dwelling or other structure within the proposed Watchtower Farms Improvement project's APE. The nearest Historic period residences were located on the south side of Red Mills Road, far enough away from the current APE as to make the presence of domestic type archaeological features, midden deposits, or other domestic deposits there unlikely. These structures are still in existence and are indicated in Photographs 27, 28, 31, and 32 (see Appendices B and C).

In addition, no evidence was found that indicates that other Historic period events occurred within the property that may have resulted in the formation of potentially significant artifact deposits or construction of commercial/industrial type features there. Accordingly, the current Watchtower Farms Improvement project APE is not considered to be sensitive for the presence of Historic period archaeological sites and testing specifically intended to investigate for the presence of such resources is not warranted.

## **5.3 Recommendations**

It is recommended that Phase Ib-level archaeological testing be undertaken in the portions of the current Watchtower Farms Improvement project's APE referred to in this report as Zones B and C if they are to be disturbed by activities associated with the proposed construction project. Such testing will determine whether any possibly significant archaeological resources are present within the APE. Specifically, these locations are considered to be archaeologically sensitive for the presence of Native American period cultural resources. The two Zones are not considered to be archaeologically sensitive for Historic period sites and testing specifically designed to evaluate for the presence of such sites is not warranted. However, testing of the two Zones for the presence of Native American sites will adequately investigate the areas for Historic period archaeological resources.

Although the developed portion of the current Watchtower Farms Improvement project, referred to in this report as Zone A, formerly would have been sensitive for the presence of Native American sites, the area has been disturbed by construction of the Watchtower farms facility. Accordingly, Phase Ib-level archaeological testing of that part of the current Watchtower Farms Improvement project (Zone A), is not warranted.

## 6.0 REFERENCES CITED

Anonymous

n.d.a "History of the Town of Shawangunk." Towns of Shawangunk and Gardiner Historical Society.

n.d.b Eighteenth Century Land Patents in Ulster County. Copy in the Collections of the New York City Public Library.

Barber, Russell J.

1980 "Post - Pleistocene Anadromous Fish Exploitation at the Boswell Site, Northeastern Massachusetts." Man in the Northeast Occasional Publications in Northeastern Anthropology 7:97-113.

Barry, Elise M.

1983 Dill Farm. Building Structure Inventory Form, Division of Historic Preservation, New York State Parks and Recreation. Copy on file at the New York State Office of Parks, Recreation and Historic Preservation, Waterford, New York.

Beauchamp, William

1900 Aboriginal Occupation of New York. New York State Museum Bulletin Number 32, Albany, New York.

Beers, F.W.

1875 County Atlas of Ulster County, Shawangunk, Part of the Pauling Tract. Walker and Jewett Publishers, New York, New York.. Copy in the Collections of the New York City Public Library.

Bolton, Reginald Pelham

1975 New York City In Indian Possession, 2nd Edition. Museum of the American Indian, Heye Foundation, New York, New York.

Cammisa, Alfred, and Felicia Cammisa, and Alexander Padilla

2006 Phase I Archaeological Investigation for the Proposed Winter Wonderland Subdivision, New Prospect Road, Township of Shawangunk, Ulster County, New York. Prepared for Mercurio-Norton-Tarolli, Pine Bush, New York.

Canaster, Grenda D., and Dean R. Snow

1977 New York State Cultural Resource Sampling Project, Division for Historic Preservation, New York Archaeological Council. Department of Anthropology, State University of New York, Albany, New York.

Diamond, Joseph

2006 Phase I Cultural Resource Investigation Proposed Project For Orange County Enterprises, Town of Shawangunk, Ulster County, New York. Prepared for Hagopian Engineering, Kingston, New York and Orange County Enterprises, Walden, New York.

Dincauze, Dena F.

1976 "The Nelville Site: 8,000 Years at Amoskeag." Peabody Museum Monographs No. 4, Harvard University, Cambridge, Ma.

Drumm, Judith

1963 Mastodons and Mammoths Ice Age Elephants of New York. Educational Leaflet No. 13. The University of the State of New York, the State Education Department, State Museum and Science Service, Albany, New York.

Eisenberg, Leonard

1973 Before the Huguenots. Stone House Press, New York.

Ellis, Captain Franklin

1878 History of Columbia County, New York. Everts and Ensign Publishers, Philadelphia, Pa.

Fenneman, Nevin M.

1938 Physiography of Eastern United States. McGraw-Hill Book Company, New York, New York.

Flick, Alexander C. (Editor)

1934 History of the State of New York, The Age of Reform, Vol. IV. Columbia University Press, New York, New York.

Foote, Charles E.

1907 History of Ulster County. Alfonso T. Clearwater, editor. Copy in the collections of the New York Public Library.

French, J.H.

1860 Gazetteer of the State of New York. Ira J. Friedman, New York.

Funk, Robert E.

1972 "Early Man in the Northeast and the Late Glacial Environment". Man in the Northeast 4:7-39.

1976 "Recent Contributions to Hudson Valley Prehistory." New York State Museum and Science Service Memoir No. 22, Albany, New York.

Gardner, W. M.

1974 "The Flint Run Paleo-Indian Complex: A Preliminary Report, 1971-1973 Seasons." The Catholic University of America, Archaeology Laboratory, Occasional Publication 1.

Goldering, Winifred

1943 Geology of the Coxacksie Quadrangle. University of the State of New York, Albany, New York.

Goddard, Ives

1978a "Eastern Algonquian Languages." Handbook of North American Indians Vol.:70-77. Smithsonian Institution, Washington, D.C.

1978b "Delaware." Handbook of North American Indians Vol.15:213-239. Smithsonian Institution, Washington, D.C.

Gosner, Kenneth L.

1978 A Field Guide to the Atlantic Shore. Houghton, Mifflin Company, Boston, Ma.

Gramley, Richard M.

1982 "The Vail Site: A Paleo-Indian Encampment in Main." Bulletin of the Buffalo Society of Natural Sciences No. 30.

Graymont, Barbara

1972 The Iroquois in the American Revolution Syracuse University Press, Syracuse, New York.

Gross, Janet and Helen Ostrowski

1984 New York Walk Book. Anchor Books, Garden City, New York.

Hasbrouck, Kenneth E.

1949 The History of New Hurley. Copy in the Collections of the New York City Public Library.

1955 History of New Hurley, The Flint, Plains Road, and Sherwood Corners, St. Elmo. Copy in the Collections of the Haviland-Heidgerd Historical Collection, Elting Library, New Paltz, New York.

Hauptman, Laurence M.

1975 The Native Americans: A History of the First Residents of New Paltz and Environs. Haviland-Heidgerd Historical Collection, Elting Memorial Library. New Paltz, New York.

Hodge, Frederick W. (editor)

1910 "Handbook of American Indians North of Mexico." Bureau of American Ethnology, Bulletin No. 30, Part II, Smithsonian Press, Washington, D.C.

Hunter, William A.

1959 "The Historic Role of the Susquehannocks." In Susquehannock Miscellany, J. Witthoft and W.F. Kinsey III (editors). Pennsylvania Historical and Museum Commission, Harrisburg, Pa.

Isachsen, Y.W., E. Landing, J.M. Lauber, L.V. Rickard, and W.B. Rogers (editors)

1991 "Geology of New York, A Simplified Account." Educational Leaflet No. 28. The University of the State of New York, The State Education Department, Albany, New York.

Juet, Robert

1959 The Voyage of the 'Half Moon' from 4 April to 7 November, 1609. The New Jersey Historical Society, Newark, New Jersey.

- Kraft, Herbert C.  
 1975 The Archaeology of the Tocks Island Area. Archaeological Research Center, Seton Hall University Museum, South Orange, New Jersey.
- 1984 "The Northern Lenape in Prehistoric and Early Colonial Times." In The Lenape Indian: A Symposium. Herbert C. Kraft (editor). Archaeological Research Center, Seton Hall University Museum, South Orange, New Jersey.
- 1986 The Lenape: Archaeology, History, and Ethnography. New Jersey Historical Society, Newark, New Jersey.
- LaPorta, Philip  
 2000 Personal Communication. Professional Archaeologist.
- Lenig, D.  
 1965 "The Oak Hill Horizon and Its Relation to the Development of Five Nations Iroquois Culture." New York State Archaeological Association Research Transactions 15:1.
- MacNeish, Richard S.  
 1952 Iroquois Pottery Types. Natural Museum of Canada Bulletin 124. Ottawa, Canada.
- Markunas, Kenneth  
 2007 Letter to Mr. Kris Pedersen, Chairman, Town of Shawangunk Planning Board, Wallkill, New York from Mr. Kenneth Markunas, Historic Sites Restoration Coordinator, New York State Office of Parks, Recreation and Historic Preservation, Historic Preservation Field Services Bureau." November 16, 2007.
- Marshall, Sydne  
 1982 "Aboriginal Settlement in New Jersey During the Paleo-Indian Cultural Period: ca. 10,000 B.C. - 6,000 B.C." A Review of Research Problems and Survey Priorities, the Paleo-Indian Period to the Present. Office of New Jersey Heritage, New Jersey Department of Environmental Protection, Trenton, New Jersey.
- Mauritz, Jacqueline  
 1988 The History of the Town of Shawangunk. Precision Press, Walden, New York.
- Moeller, Roger  
 1980 "6LF21": A Paleo-Indian Site in Western Connecticut." American Indian Archaeological Institute Occasional Paper No. 2.
- National Resources Conservation Service  
 2008 "Soil Survey." United States Department of Agriculture, National Resources Conservation Service On-Line Resource: [HTTP://soildatamartnrsc.usda.gov](http://soildatamartnrsc.usda.gov).
- New York Archaeological Council  
 1994 Standards for Cultural Resource Investigations and the Curation of Archaeological Collections in New York State. Prepared by the New York Archaeological Council. Adopted by the New York State Office of Parks, Recreation and Historic Preservation.



- 2000 Cultural Resource Standards Handbook. Guidance for Understanding and Applying the New York State Standards for Cultural Resource Investigations. The New York Archaeological Council. Adopted by the New York State Office of Parks, Recreation and Historic Preservation.
- New York State Office of Parks, Recreation and Historic Preservation (NYSOPRHP)
- 2005 New York State Historic Preservation Office (SHPO) Archaeological Report Format Requirements. Prepared by the New York State Office of Parks, Recreation and Historic Preservation Waterford, New York.
- 2008a SPHINX National Register Properties Listings. Site File System at the New York State Office of Parks, Recreation and Historic Preservation, Waterford New York.
- 2008b "Geographical Information System On-Line Data Base." New York State Office of Parks, Recreation and Historic Preservation, Waterford New York.
- Parker, Arthur C.  
1922 "The Archaeological History of New York, Part Two." New York State Museum Bulletin, Nos. 237, 238, Albany, New York.
- Pelletreau, William  
1886 History of Putnam County, New York. William Preston Publishers, Philadelphia, New York.
- Pfeiffer, John  
1983 "The Howard Site: A Late Archaic Laurentian Village in the Lower Connecticut Valley." Paper presented to the Archaeological Society of Connecticut, October 15, 1983.
- Ritchie, William A.  
1980 The Archaeology of New York State. Harbor Hill Books, Harrison, New York.
- Ritchie, William A. and Robert E. Funk  
1973 "Aboriginal Settlement Patterns in the Northeast." New York State Museum and Science Service Memoir No. 20. Albany, New York.
- Roberts, Melvin F.  
1979 The Tidemarsch Guide. E.P. Dutton, New York, New York.
- Robichaud, Beryl and Murray F. Buell  
1983 Vegetation of New Jersey. Rutgers University Press, New Brunswick, New Jersey.
- Rogers, William B., Yngvar W. Isachsen, Timothy D. Mock, and Richard E. Nyahay  
1990 New York State Geological Highway Map. Educational Leaflet 33. The University of the State Education Department, Albany, New York.

- Ruttenber, E.M.  
 1872 History of the Indian Tribes of Hudson's River. Kennikat Press, Port Washington, New York.
- 1875 History of the County of Orange. E.M. Ruttenber and Sons, Printers, Newburgh, New York.
- Salomon, Julian Harris  
 1982 Indians of the Lower Hudson Region, The Munsee. Historical Society of Rockland County, New City, New York.
- Salwen, Bert  
 1975 "Post-Glacial Environments and Cultural Change in the Hudson River Basin." Man in the Northeast 10:43-70.
- 1978 "Indians of Southern New England and Long Island: Early Period." Handbook of North American Indians Vol. 15:160-176. Smithsonian Institution, Washington, D.C.
- Shaver, Peter D.  
 1993 The National Register of Historic Places in New York State. Rizzoli Press, New York, New York.
- Shelford, Victor E.  
 1974 The Ecology of North America. University of Illinois Press, Chicago, Illinois.
- Snow, Dean  
 1980 The Archaeology of New England. Academic Press, New York, New York.
- Starbuck, David R. and Charles E. Bolian (editors)  
 1980 "Early and Middle Archaic Cultures in the Northeast." Occasional Publications in Northeastern Anthropology, No. 7. Published by the Department of Anthropology, Franklin Pierce College, Rindge, New Hampshire.
- Sylvester, Nathaniel Bartlett  
 1880 History of Ulster County, New York. Everts and Peck, Philadelphia, Pa.
- Swanton, John R.  
 1952 "The Indian Tribes of North America." Bureau of American Ethnology Bulletin No. 145, Smithsonian Institution, Washington, D.C.
- Tectonic Engineering and Surveying Consultants, P.C.  
 2009 Phase I Archaeological Survey for Proposed Verizon Wireless Telecommunications Monopole and Facility, 20 Old Hoagerburgh Road, Hamlet of Wallkill, Town of Shawangunk, Ulster County, New York. Prepared for Verizon Wireless, Rochester, New York.
- Tillson, Oliver J. and S.P. Henry Brink  
 1853 Map of Ulster County, New York. Published by P.H. Brink and O.J. Tillson, Saugertis, New York. Copy in the Collections of the New York City Public Library.

Tornes, L.A.

- 1979 Soil Survey of Ulster County. United States Department of Agriculture Soil Conservation Service, Washington, D.C.

Town of Shawangunk

- 2004 Town of Shawangunk Open Space Inventory and Analysis. Copy on file at the Town of Shawangunk Town Clerks Office.

Tuck, J.A.

- 1968 "Iroquois Cultural Development in Central New York. Ph.D. Dissertation. Syracuse University, Syracuse, New York.

United States Geological Survey

- 1903/ Ellenville, New York 15 Minute Series (Topographic). United States Department of the Interior, Geological Survey, Washington, D.C. Photo revised 1946. Copy in the Collections of the New York City Public Library

- 1956 Napanoch New York, 7.5 Minute Series (Topographic). United States Department of the Interior, Geological Survey, Washington, D.C. Photo revised 1981.

Van Diver, Bradford B.

- 1985 Roadside Geology of New York. Mountain Press Publishing Company, New York, New York.

Vargo, Jack and Donna Vargo

- 1983 "The Rabuilt Cave Site - PKE 4-4 Site Report." Bulletin and Journal of Archaeology of New York State:87:13-39.

Washburn, Wilcomb E.

- 1978 "Seventeenth-Century Indian Wars." Handbook of North American Indians: 5:89-100. Smithsonian Institution Press, Washington D.C.

Watchtower Bible and Tract Society of New York, Inc.

- 2007 Draft Environmental Impact Statement for the Watchtower Farms Improvement Project, Town of Shawangunk, New York. Copy on file at the Watchtower Farms, Town of Shawangunk, New York.

Werner, D.

- 1964 "Vestiges of Paleo-Indian Occupation Near Port Jervis, New York." New World Antiquity:11:30-52.

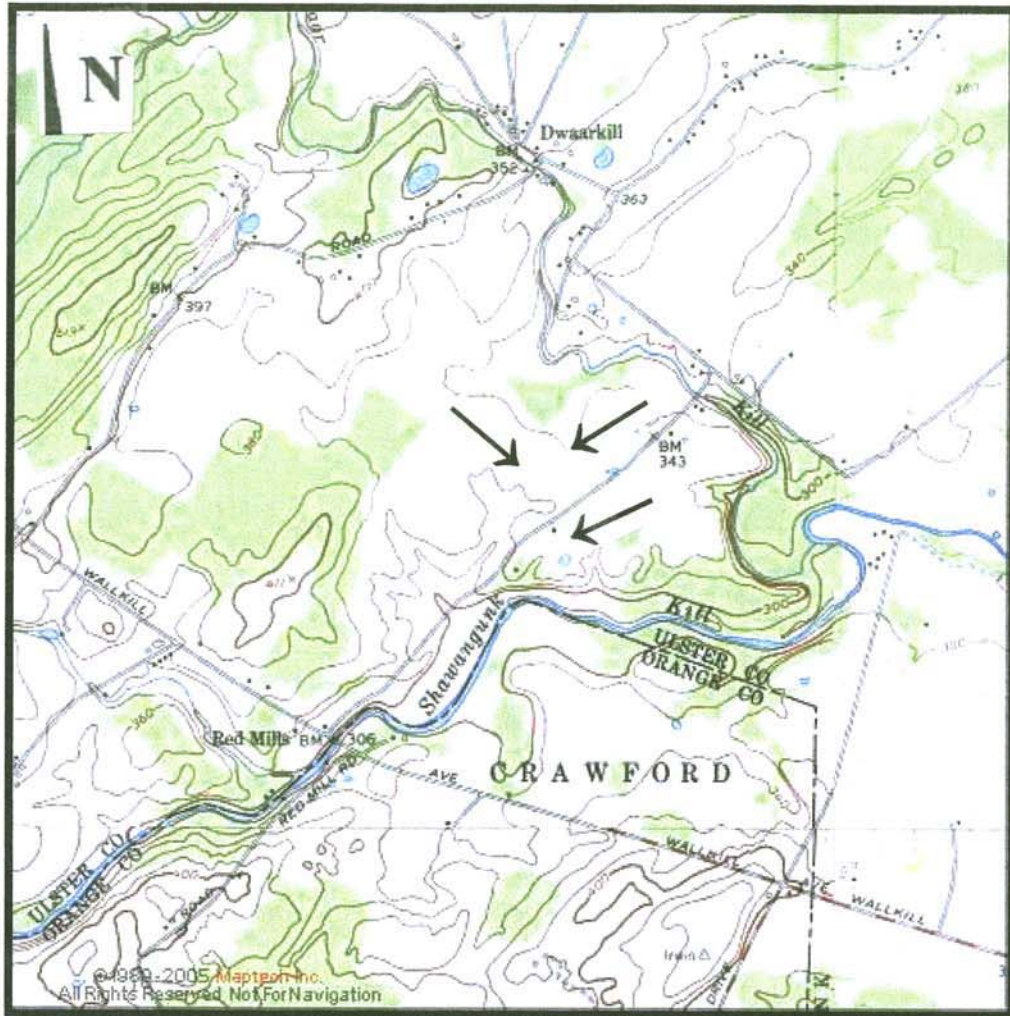
Weslager, C.A.

- 1967 The English on the Delaware: 1610-1682. Rutgers University Press, New Brunswick, New Jersey.

White, Heidi

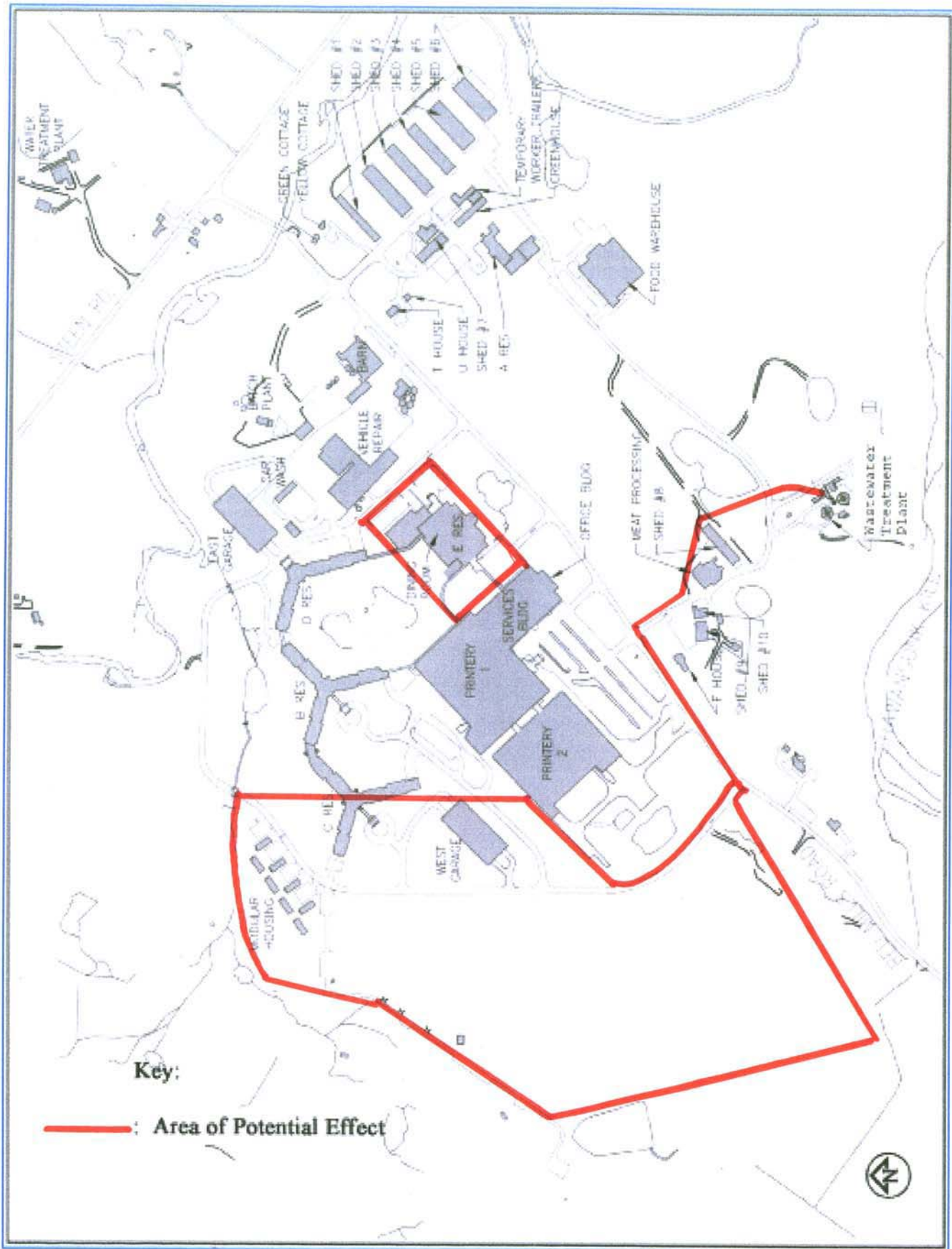
- 1988 "The Early Days." In The History of the Town of Shawangunk, Jacqueline Mauritz Precision Press, Walden, New York.

**FIGURES**

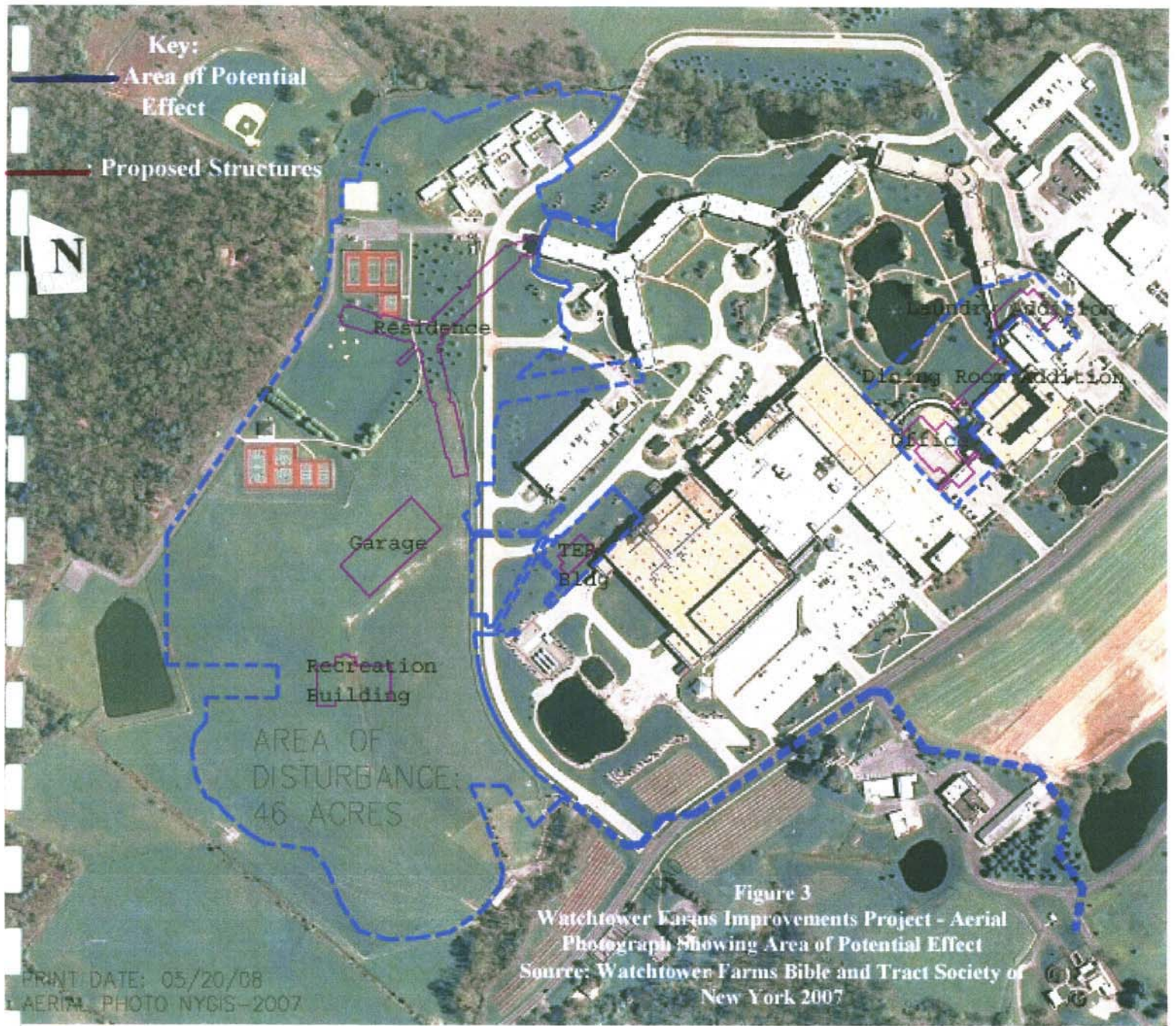


**Figure 1**  
**Watchtower Farms Improvement Project Area Region**  
**Base Map Source: United States Geological Survey 1956**  
**Scale of Original: 1:24,000**  
**Contour Interval: 20 feet**

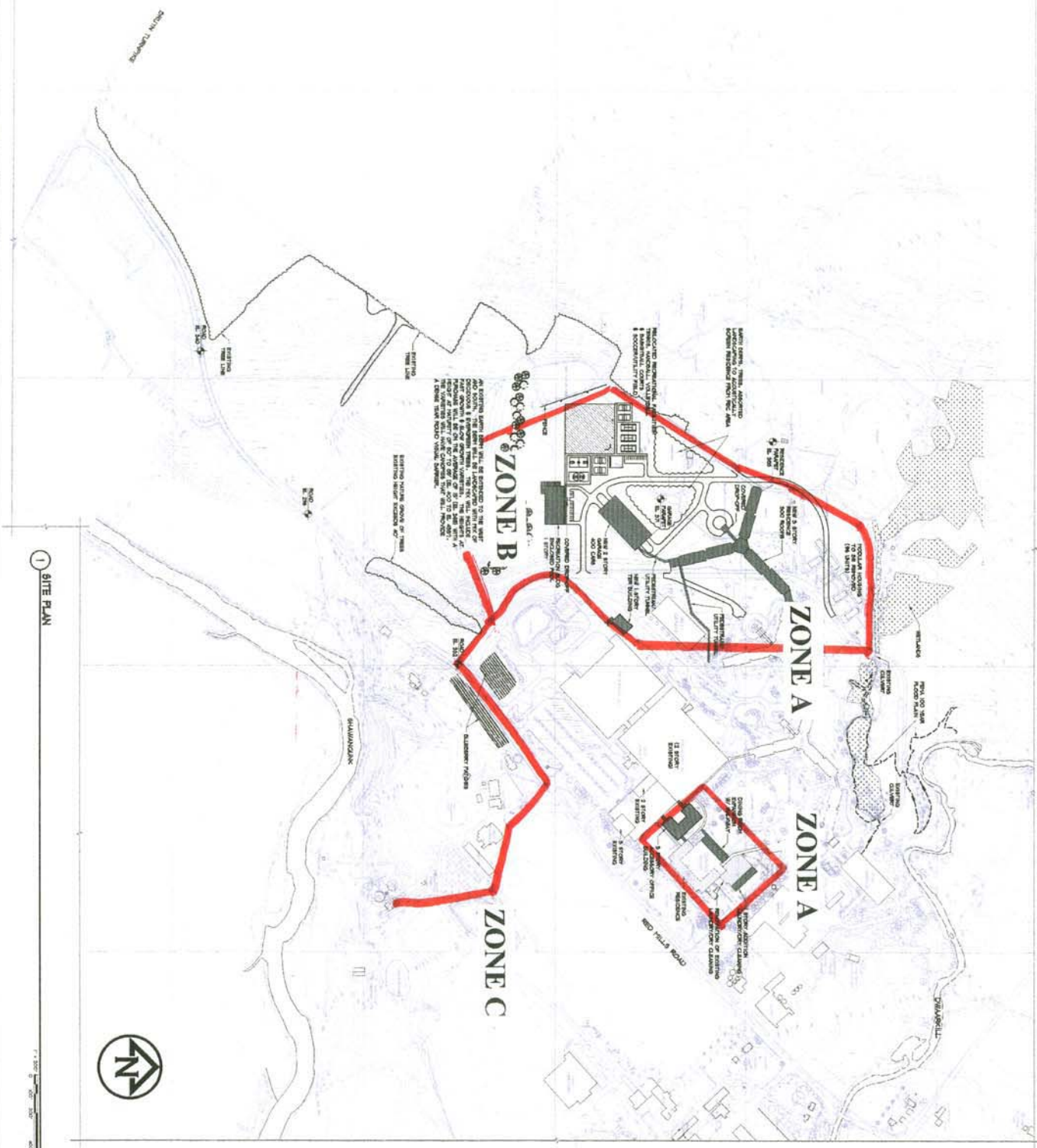
**Arrows indicate approximate location of the Watchtower Farms project area.**




**Figure 2**  
**Watchtower Farms Improvements Project - Existing Conditions and Area of Potential Effect**  
 Source: Watchtower Farms Bible and Tract Society of New York, Inc. 2007



# WATCHTOWER FARMS IMPROVEMENT



**Figure 4**  
**Watchtower Farms Improvement Project Showing Area of Potential Effect and Planned Construction**  
 Base Map Source: Watchtower Farms Bible and Tract Society of New York, Inc. 2007

**Key:**  
 :Area of Potential Effect





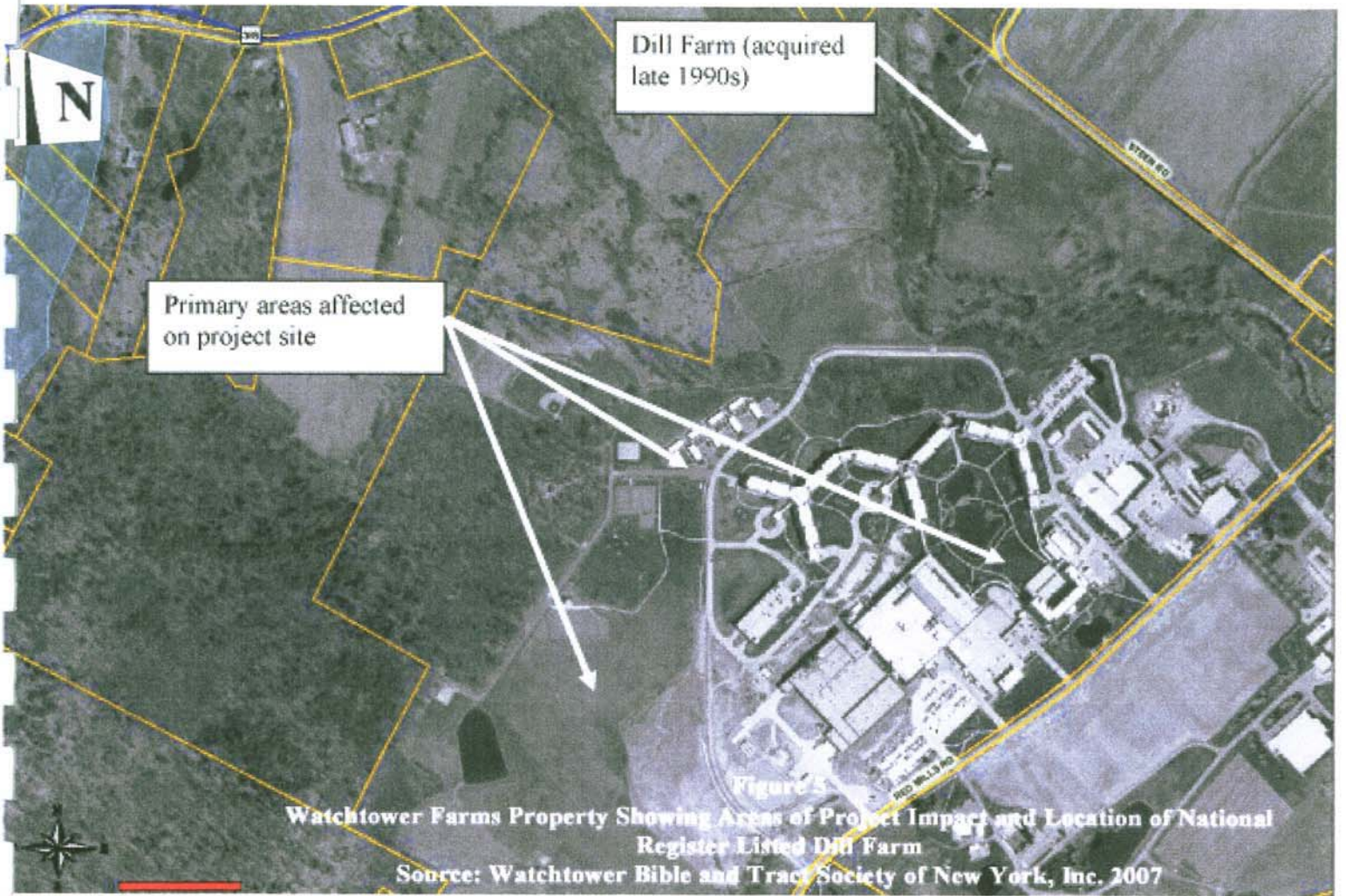
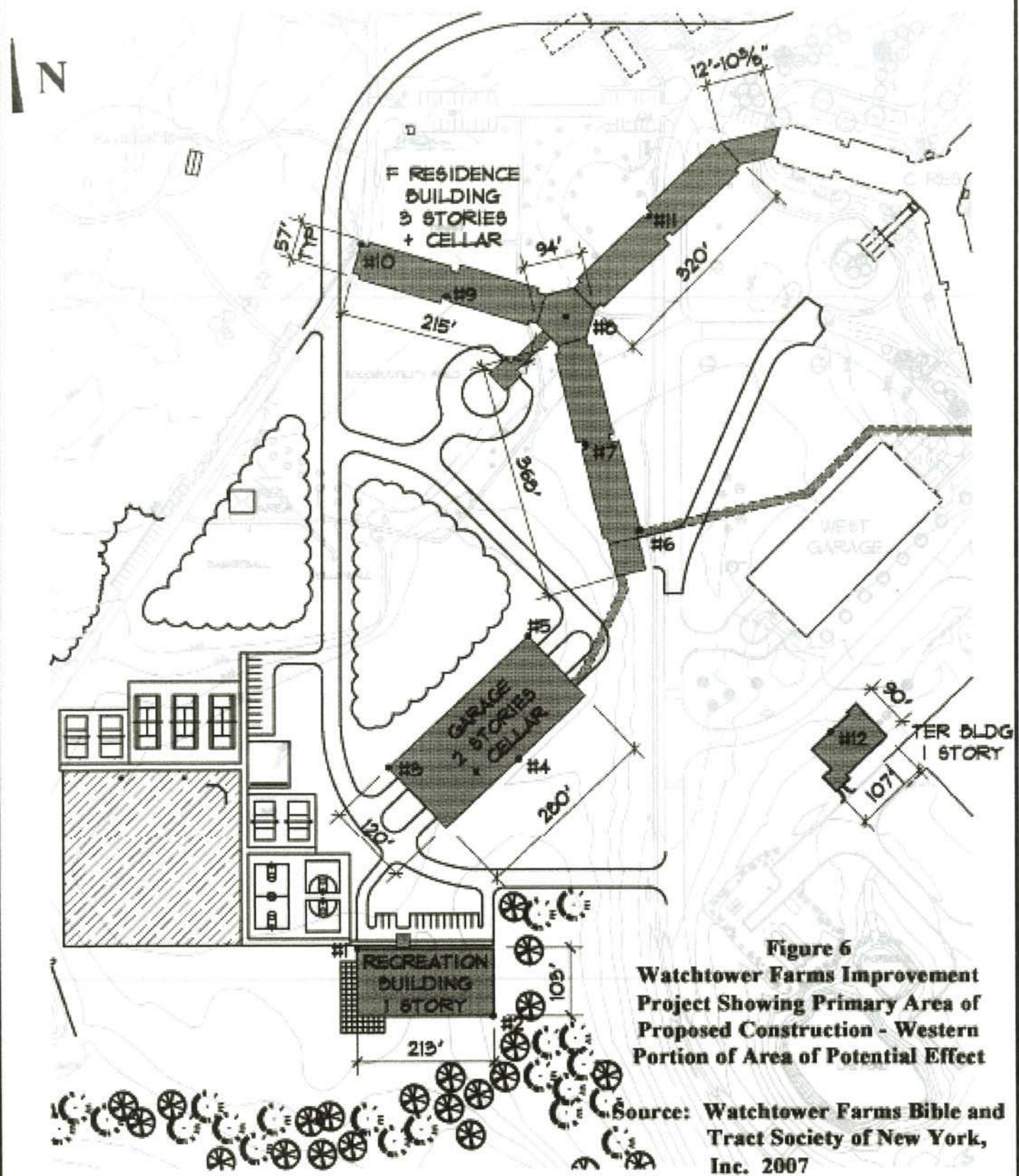


Figure 5  
Watchtower Farms Property Showing Areas of Project Impact and Location of National Register Listed Dill Farm  
Source: Watchtower Bible and Tract Society of New York, Inc. 2007

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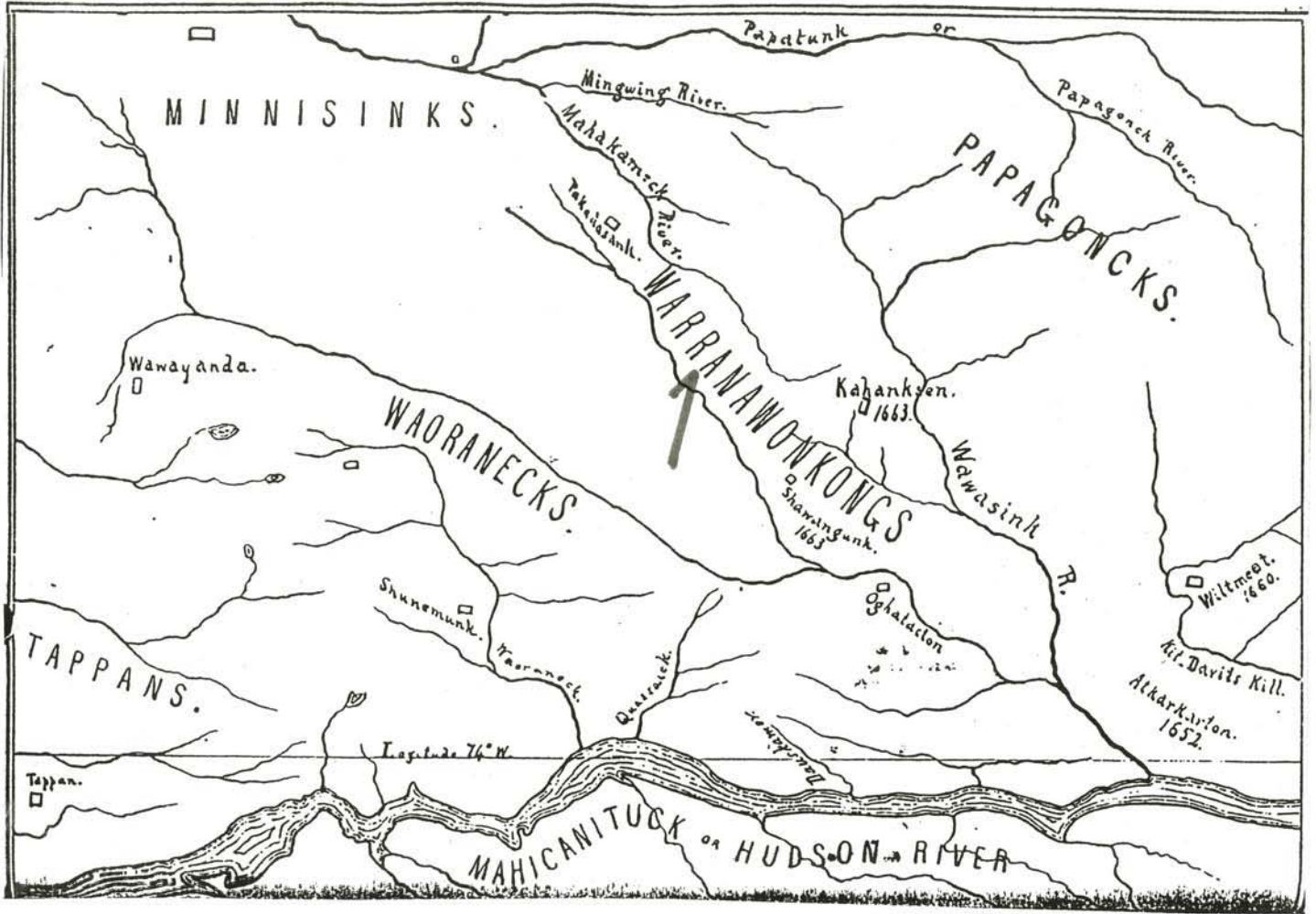
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**Figure 6**  
**Watchtower Farms Improvement Project Showing Primary Area of Proposed Construction - Western Portion of Area of Potential Effect**

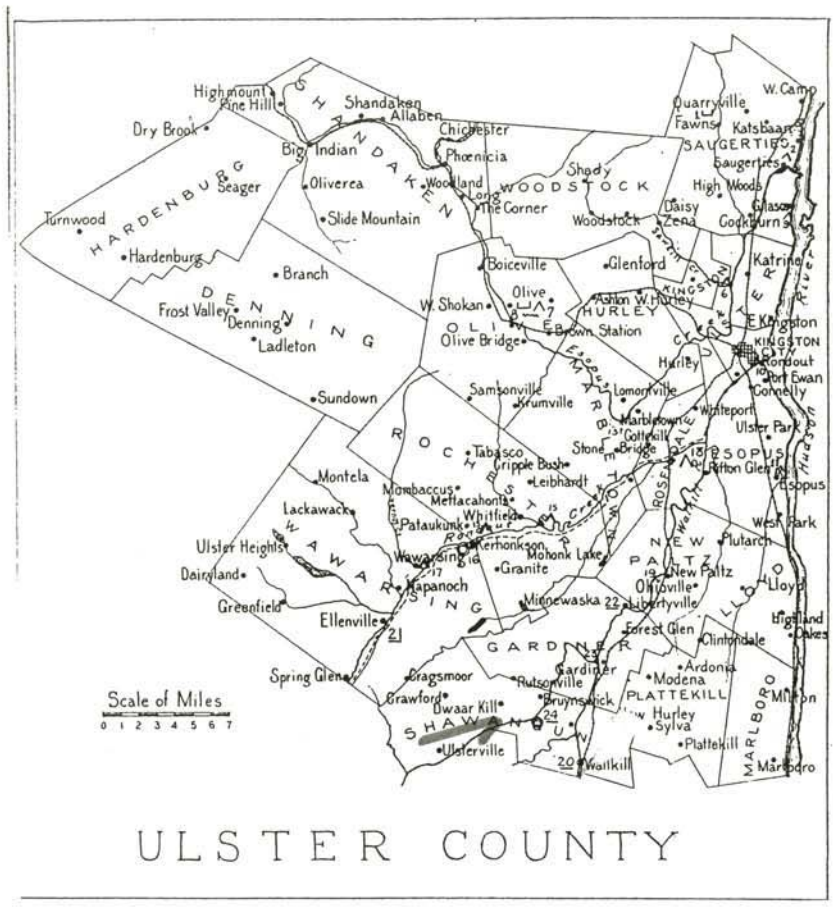
Source: Watchtower Farms Bible and Tract Society of New York, Inc. 2007

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	WATCHTOWER BIBLE & TRACT SOCIETY		WWKL0193
PROJECT TITLE:	WATCHTOWER FARMS IMPROVEMENTS		SHEET No.
SHEET TITLE:		PROPOSED BORING LOCATION	S-1
MARK:	DATE:	DESCRIPTION:	



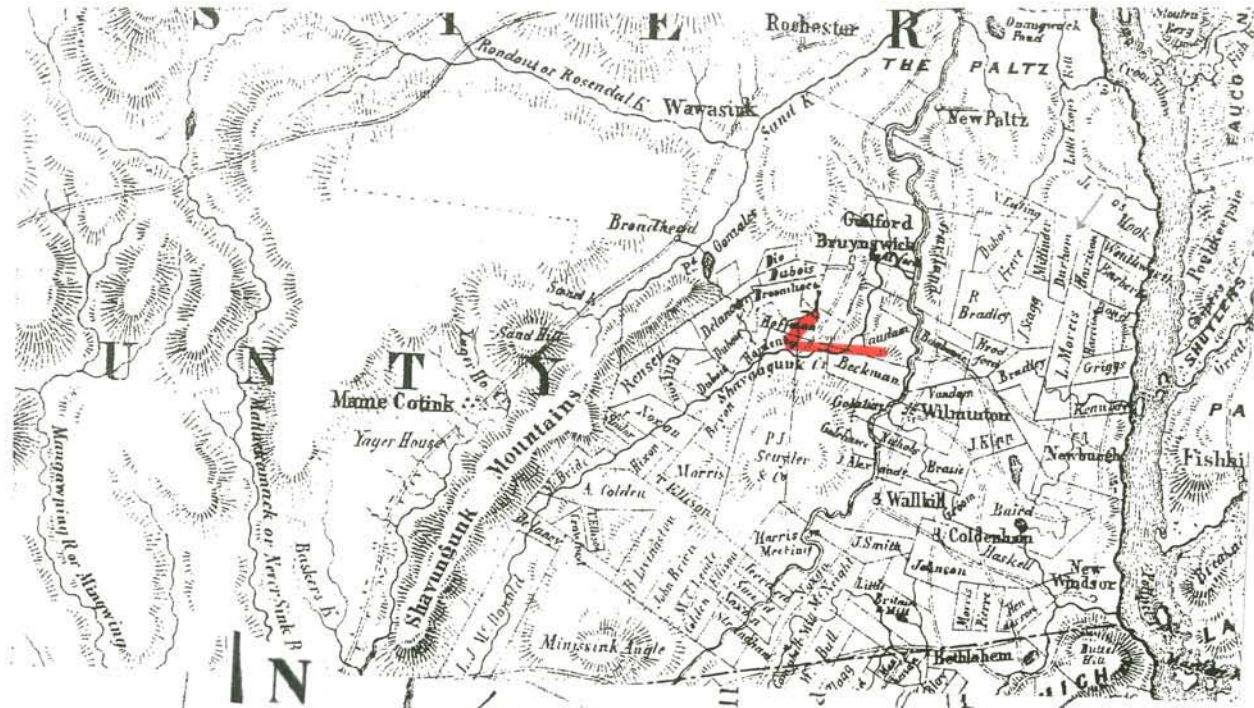
**Figure 7**  
**Euro-American Contact Period Native American Groups in the Project Area Region**  
**Source: Rutenber 1875**

**Arrow indicates approximate location of the Watchtower Farms Improvement  
 Project Property**



**Figure 8**  
**Native American Archaeological Sites in Ulster County**  
**Source: Parker 1922**

**Arrow indicates approximate location of the Watchtower Farms Improvement Project Property**



**Figure 9**  
**Eighteenth Century Land Grants in the Project Area Vicinity**  
 No Scale  
 Sources: Anonymous n.d.b and White 1988

**Arrow indicates approximate location of the Watchtower Farms Improvement Project Property**



**Figure 10**  
**1829 Burr Map**  
Scale of Original: 1 inch = 5 miles

**Arrows indicate approximate location of the Watchtower Farms Improvement Project Property**



Figure 11  
 1875 Beers Map  
 Scale of Original: 1 inch = 3,200 feet

Arrows indicate approximate location of the Watchtower Farms Improvement Project Property

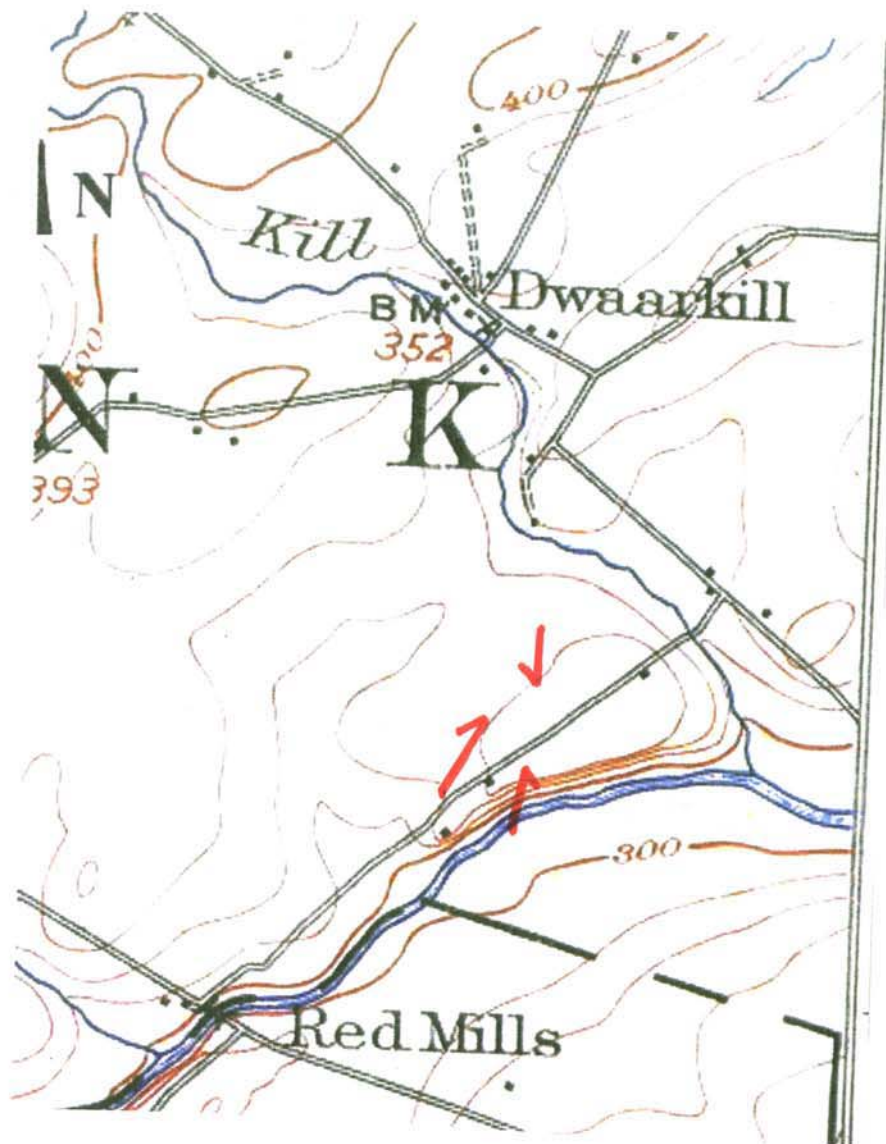


Figure 12  
1903/1925 United States Geological Survey Map  
Scale of Original: 1:62,500  
Contour Interval: 20 feet

Arrows indicate approximate location of the Watchtower Farms Improvement Project Property



**PHOTOGRAPHS**



**Photograph 1**

**Watchtower Farms Main Entrance – View is to the North**



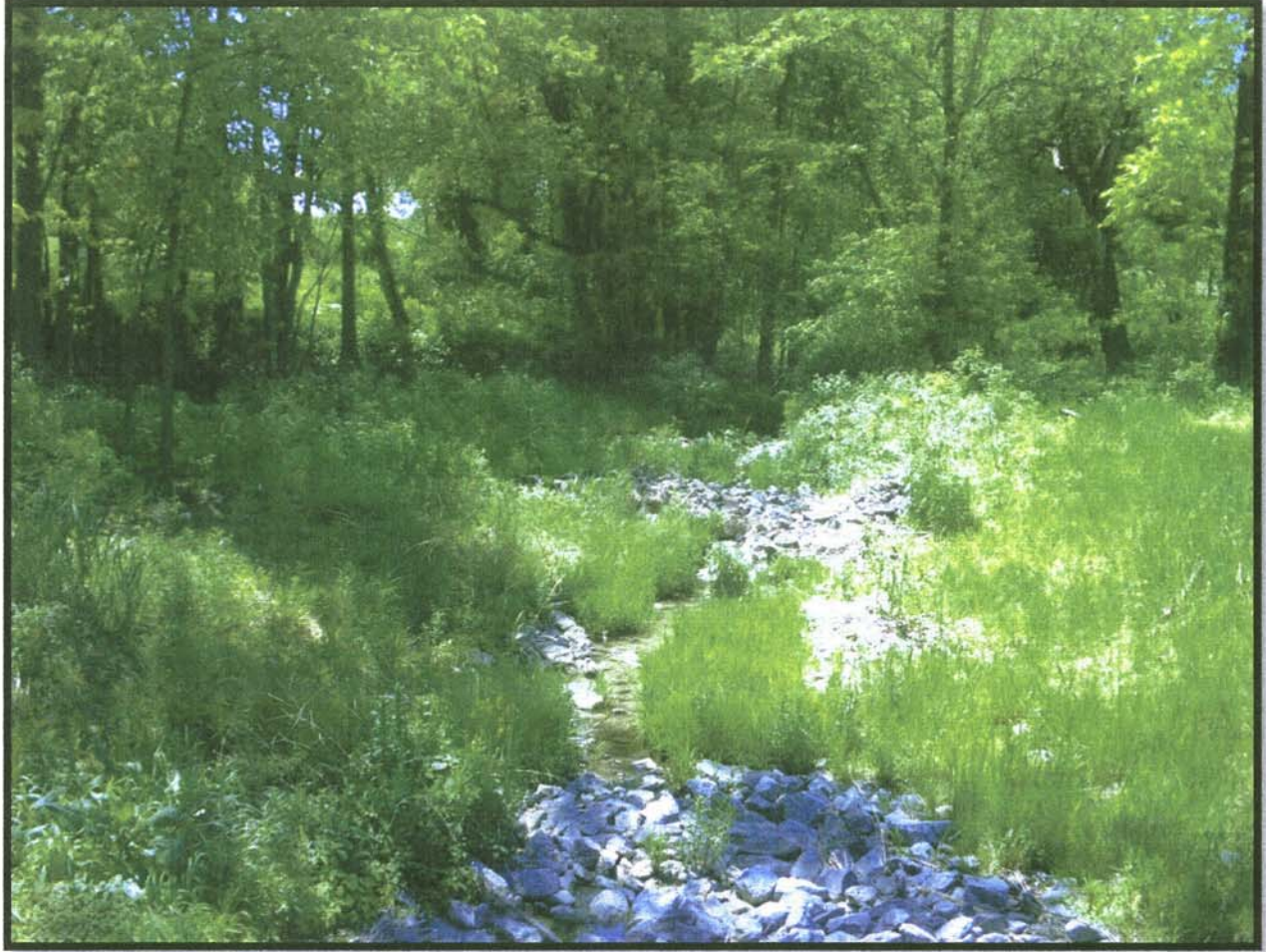
**Photograph 2**

**Watchtower Farms – Developed Portion of Property; Red Mills Road in Foreground,  
Shawangunk Mountain Ridge in Background; View is to the North**



**Photograph 3**

**Watchtower Farms Main Access Road – View is to the North**



**Photograph 4**

**Intermittent Stream Through Pasture in Western Portion of Area of Potential Effect –**

**View is to South**



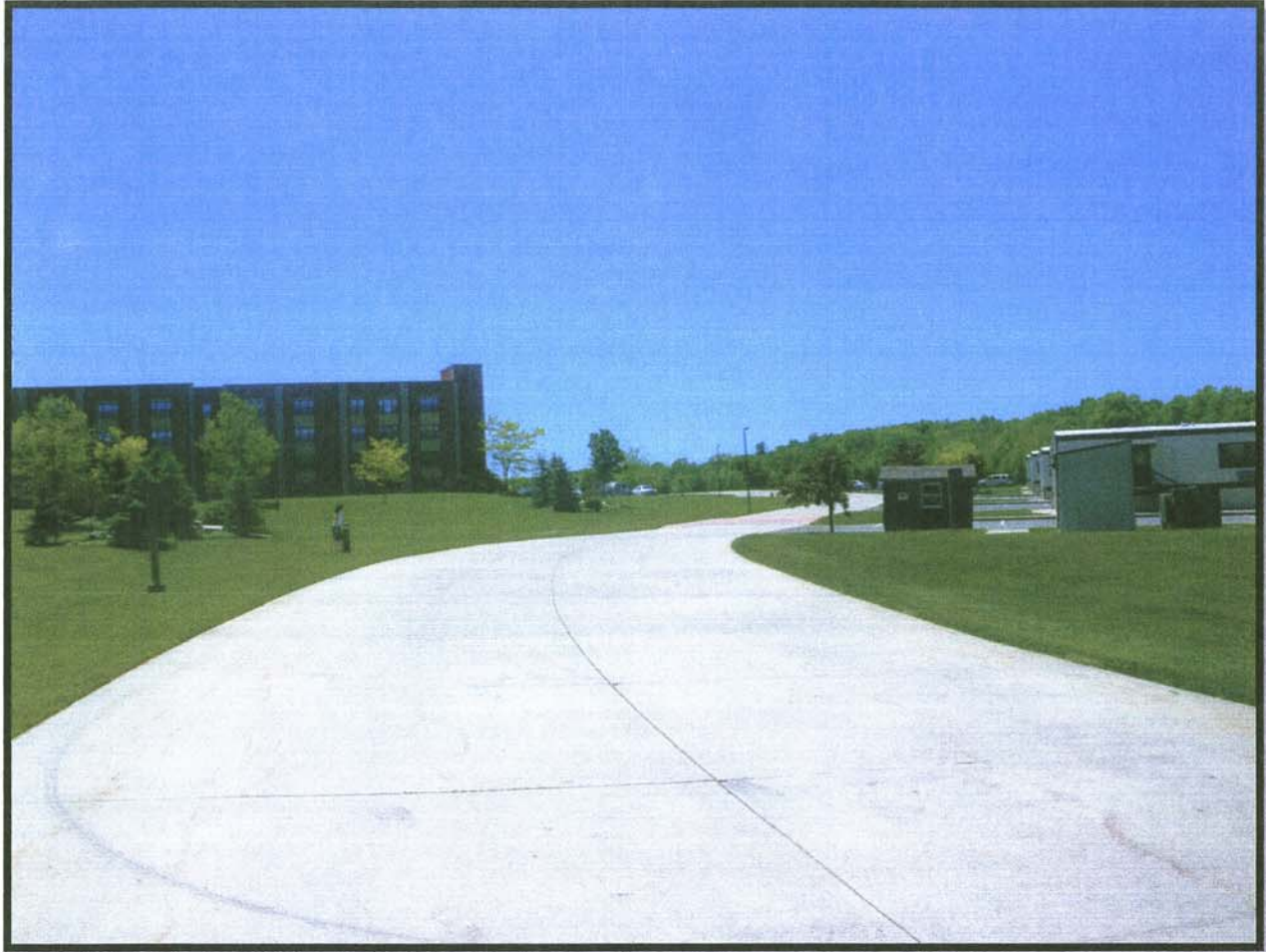
**Photograph 5**

**Dwaarkill – View is to the North**



**Photograph 6**

**Recreational Field in Northern Portion of the Area of Potential Effect – Proposed Location of New Residence; View is to the West**



**Photograph 7**

**Watchtower Farms Main Access Road – Proposed Location of New Residence; View is to the West**





**Photograph 8**

**Existing Above Ground Pool – Proposed Location of New Office Building; View is to the North**



**Photograph 9**

**Existing Recreational Ball Court – Proposed Location of New Office Building; View is to the North**



**Photograph 10**

**Landscaped Area Showing Dining Room (Right) and Laundry/Dry Cleaning Building (Top) – Proposed Location of Dining Room Addition; View is to the East**



**Photograph 11**

**Existing Laundry/Dry Cleaning Building – Proposed Addition to Left Side of Building;  
View is to the South**



**Photograph 12**

**Existing Pasture in Western Portion of the Area of Potential Effect – Proposed Location of  
Parking Garage; View is to the North**



**Photograph 13**

**Existing Pasture in Western Portion of the Area of Potential Effect – Proposed Location of  
Parking Garage; View is to the South**



**Photograph 14**

**Printery Building 2 and Landscaped Grounds – Proposed Location of New One Story Building (Right Center); View is to the Northeast**



**Photograph 15**

**Existing Pasture in Western Portion of the Area of Potential Effect – Proposed Location of  
New Recreational Building; View is to the Northeast**





**Photograph 16**

**Existing Pasture in Western Portion of the Area of Potential Effect – Proposed Location of  
New Recreational Building; View is to the North**



**Photograph 17**

**Existing Recreational Ball Field in the Northern Portion of the Area of Potential Effect –  
Proposed Location of Improved Recreational Facilities; View is to the West**



**Photograph 18**

**Existing Tennis Court and Landscaped Area in the Northern Portion of the Area of Potential Effect – Proposed Location of Improved Recreational Facilities; View is to the North**



**Photograph 19**

**Modular Homes in Northern Portion of the Area of Potential Effect – View is to the North**



**Photograph 20**

**Proposed Route of Waste Water Line Past Cultivated Field Within Area of Potential Effect  
East of Red Mills Road; View is to the Northwest**



**Photograph 21**

**Proposed Route of Waste Water Line Through Landscaped Ground Past Pond within Area of Potential Effect East of Red Mills Road; View is to the North**



**Photograph 22**

**Proposed Route of Waste Water Line Through Pasture East of Red Mills Road within  
Area of Potential Effect; View is to the North**

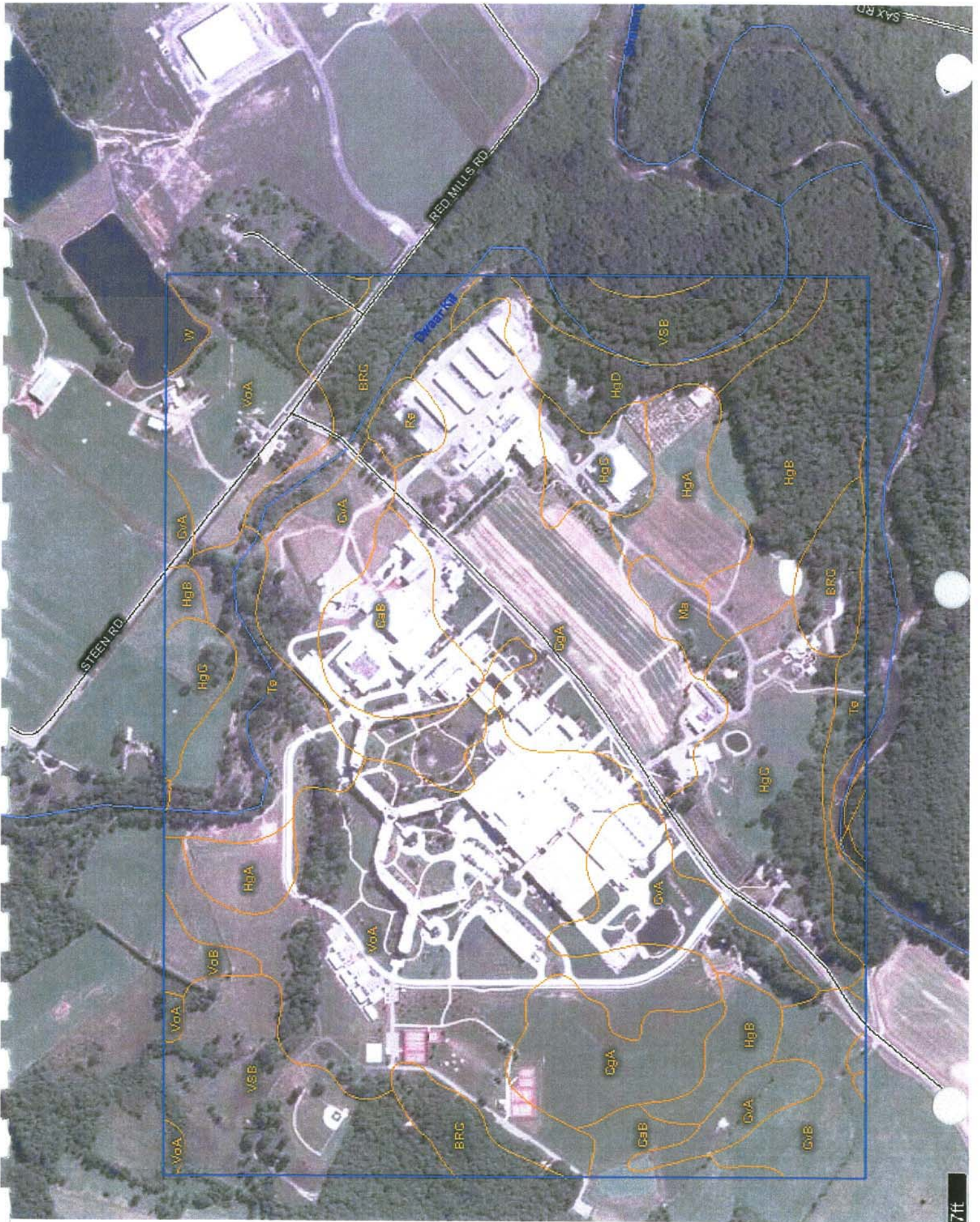
**SEE APPENDIX C FOR PHOTOGRAPHS 23 - 32**



**APPENDICES**

**Appendix A**

**National Resources Conservation Service - Soil Survey and Legend**  
**Source: National Resources Conservation Service 2008**



AA	Alluvial land
AcB	Arnot channery silt loam, 0 to 8 percent slopes
ARD	Arnot-Lordstown-Rock outcrop complex, moderately steep
ARF	Arnot-Oquaga-Rock outcrop complex, very steep
At	Atherton silt loam
Ba	Barbour loam
Be	Basher silt loam
BgC	Bath gravelly silt loam, 8 to 15 percent slopes
BgD	Bath gravelly silt loam, 15 to 25 percent slopes
BHE	Bath very stony soils, steep
BnC	Bath-Nassau complex, 8 to 25 percent slopes
BOD	Bath-Nassau-Rock outcrop complex, hilly
BP	Borrow pit
BRC	Bath and Mardin very stony soils, sloping
CaB	Cambridge gravelly silt loam, 3 to 8 percent slopes
CaC	Cambridge gravelly silt loam, 8 to 15 percent slopes
Cc	Canandaigua silt loam
Cd	Canandaigua silt loam, till substratum
Ce	Carlisle muck
CF	Cut and fill land
CgA	Castile gravelly silt loam, 0 to 3 percent slopes
CgB	Castile gravelly silt loam, 3 to 8 percent slopes
CkB	Cayuga silt loam, 3 to 8 percent slopes
CkC	Cayuga silt loam, 8 to 15 percent slopes
CnA	Chenango gravelly silt loam, 0 to 3 percent slopes
CnB	Chenango gravelly silt loam, 3 to 8 percent slopes
CnC	Chenango gravelly silt loam, 8 to 15 percent slopes
CP	Clay pit
CvA	Churchville silt loam, 0 to 3 percent slopes
CvB	Churchville silt loam, 3 to 8 percent slopes
Da	Dam
Du	Dump
FAE	Farmington-Rock outcrop complex, steep
FW	Fresh water marsh
GP	Gravel pit
Ha	Hamlin silt loam
He	Haven loam
HfA	Hoosic cobbly loam, 0 to 3 percent slopes
HgA	Hoosic gravelly loam, 0 to 3 percent slopes
HgB	Hoosic gravelly loam, 3 to 8 percent slopes
HgC	Hoosic gravelly loam, rolling
HgD	Hoosic gravelly loam, 15 to 25 percent slopes
HSF	Hoosic soils, very steep
HuB	Hudson silt loam, 3 to 8 percent slopes

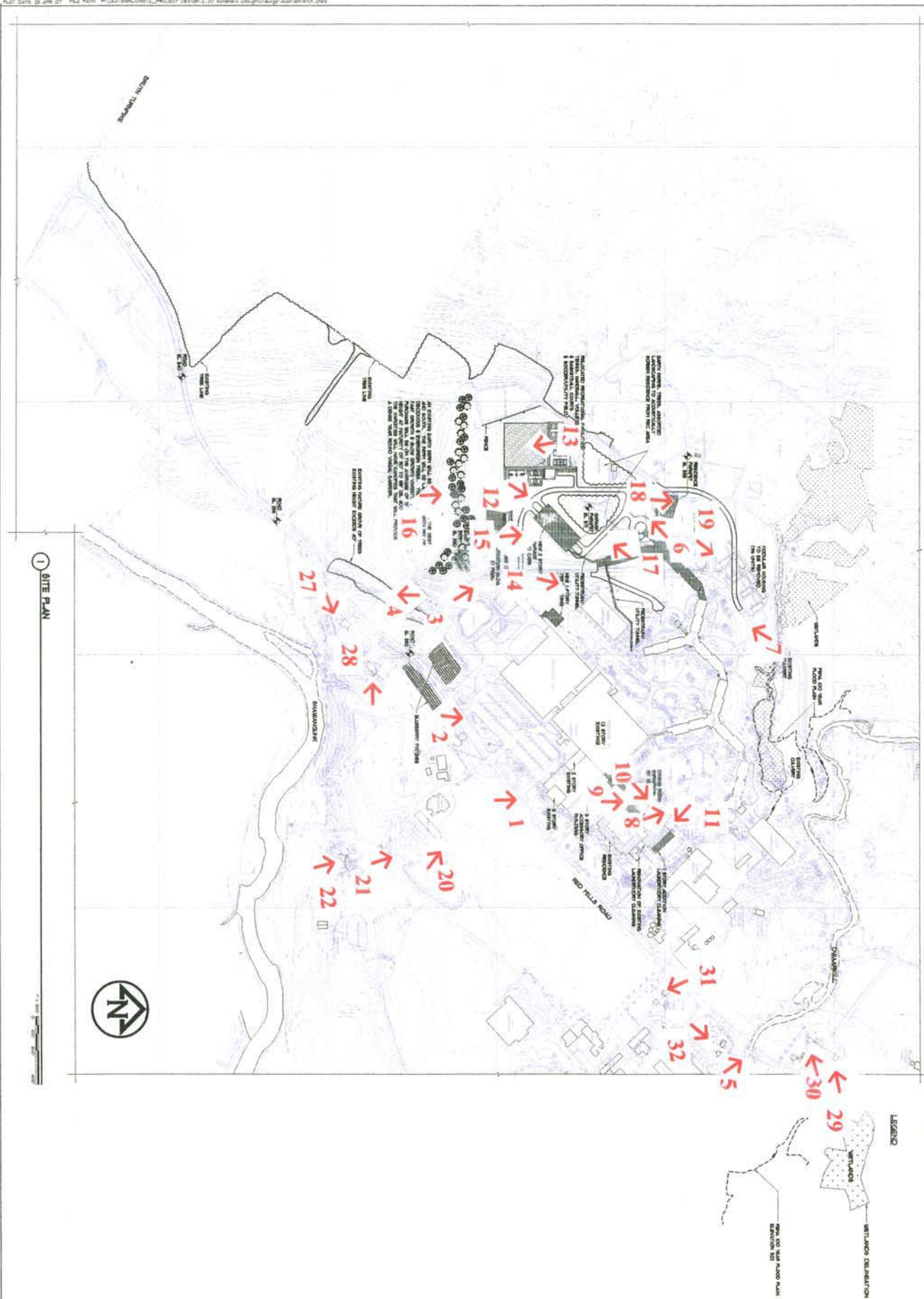
HuC	Hudson silt loam, 8 to 15 percent slopes
HvC3	Hudson and Schoharie silty clay loams, 8 to 15 percent slopes, severely eroded
HwD	Hudson and Schoharie soils, 15 to 25 percent slopes
HXE	Hudson and Schoharie soils, steep
LaB	Lackawanna flaggy silt loam, 3 to 8 percent slopes
LaC	Lackawanna flaggy silt loam, 8 to 15 percent slopes
LCD	Lackawanna and Swartswood very bouldery soils, moderately steep
LCF	Lackawanna and Swartswood very bouldery soils, very steep
LEE	Lackawanna and Swartswood extremely bouldery soils, steep
Lm	Lamson fine sandy loam
LnB	Lordstown channery silt loam, 3 to 8 percent slopes
LOC	Lordstown-Arnot-Rock outcrop complex, sloping
LY	Lyons-Atherton complex, very stony
Ma	Madalin silty clay loam
MdB	Mardin gravelly silt loam, 3 to 8 percent slopes
MgB	Mardin-Nassau complex, 3 to 8 percent slopes
ML	Made land
Mn	Menlo silt loam
MO	Menlo very bouldery soils
Mr	Middlebury silt loam
MTB	Morris-Tuller complex, very bouldery, gently sloping
NBF	Nassau-Bath-Rock outcrop complex, very steep
NMC	Nassau-Manlius shaly silt loams, rolling
NNF	Nassau-Manlius complex, very steep
NOD	Nassau-Rock outcrop complex, hilly
OdA	Odessa silt loam, 0 to 3 percent slopes
OdB	Odessa silt loam, 3 to 8 percent slopes
OgB	Oquaga channery silt loam, 3 to 8 percent slopes
OIC	Oquaga and Lordstown channery silt loams, 8 to 15 percent slopes
ORC	Oquaga-Arnot-Rock outcrop complex, sloping
ORD	Oquaga-Arnot-Rock outcrop complex, moderately steep
Pa	Palms muck
Pb	Palms muck, bedrock variant
PIB	Plainfield loamy sand, 0 to 8 percent slopes
PIC	Plainfield loamy sand, 8 to 15 percent slopes
PmD	Plainfield-Riverhead complex, moderately steep
PmF	Plainfield-Riverhead complex, very steep
PrC	Plainfield-Rock outcrop complex, rolling
Pt	Pompton fine sandy loam
QU	Quarry
Ra	Raynham silt loam
Re	Red Hook gravelly silt loam
RhA	Rhinebeck silt loam, 0 to 3 percent slopes
RhB	Rhinebeck silt loam, 3 to 8 percent slopes

RvA	Riverhead fine sandy loam, 0 to 3 percent slopes
RvB	Riverhead fine sandy loam, 3 to 8 percent slopes
RvC	Riverhead fine sandy loam, 8 to 15 percent slopes
RXC	Rock outcrop-Arnot complex, sloping
RXE	Rock outcrop-Arnot complex, steep
RXF	Rock outcrop-Arnot complex, very steep
SaB	Schoharie silt loam, 3 to 8 percent slopes
SaC	Schoharie silt loam, 8 to 15 percent slopes
Sc	Scio silt loam
SdB	Scriba and Morris soils, 0 to 8 percent slopes
SEB	Scriba and Morris very bouldery soils, gently sloping
SGB	Scriba and Morris extremely bouldery soils, gently sloping
SmB	Stockbridge-Farmington gravelly silt loams, 3 to 8 percent slope
SmC	Stockbridge-Farmington gravelly silt loams, 8 to 15 percent slopes
STD	Stockbridge-Farmington-Rock outcrop complex, hilly
Su	Suncook loamy fine sand
SwB	Swartswood stony fine sandy loam, 3 to 8 percent slopes
SwC	Swartswood stony fine sandy loam, 8 to 15 percent slopes
Te	Teel silt loam
Tg	Tioga fine sandy loam
TkA	Tunkhannock gravelly loam, 0 to 3 percent slopes
TkB	Tunkhannock gravelly loam, 3 to 8 percent slopes
TkC	Tunkhannock gravelly loam, rolling
TuB	Tunkhannock gravelly loam, clayey substratum, 3 to 8 percent slopes
TuC	Tunkhannock gravelly loam, clayey substratum, 8 to 15 percent slopes
TuD	Tunkhannock gravelly loam, clayey substratum, 15 to 25 percent slopes
Un	Unadilla silt loam
VAB	Valois very bouldery soils, gently sloping
VAD	Valois very bouldery soils, moderately steep
VoA	Volusia gravelly silt loam, 0 to 3 percent slopes

**Appendix B**

**Location of Photographs Included in this Report as Photographs 1 - 32**

# WATCHTOWER FARMS IMPROVEMENT



← 25  
 ↘ 23 24 →  
 ← 20



**Appendix C**

**Photographs 23 - 32:  
Dill Farm Residence and Other Buildings 50 Years of Age or  
Older Located Adjacent to the Watchtower Farms Improvements Project Area of  
Potential Effect**



**Photograph 23**

**Dill Farm Residence – View is to the Southwest**



**Photograph 24**

**Dill Farm Outbuildings – View is to the East**



**Photograph 25**

**Greek Revival Style Residence Associated with the Dill Farm – View is to the North**



**Photograph 26**

**Barn Associated with Second Residence on the Dill Farm – View is to the North**



**Photograph 27**

**House Across from Watchtower Farms Main Entrance East of Red Mills Road – View is to the Northeast**



**Photograph 28**

**F House East of Red Mills Road – View is to the Northwest**



**Photograph 29**

**Residence Northeast of Steen Road Near the Intersection with Red Mills Road – View is to the Northeast**





**Photograph 30**

**Residence South of Steen Road Near the Intersection with Red Mills Road – View is to the Northwest**



**Photograph 31**

**T House East of Red Mills Road – View is to the East**



**Photograph 32**

**Green Cottage (Left) and Yellow Cottage (Right) East of Red Mills Road – View is to the Northeast**



**PHASE IB ARCHAEOLOGICAL INVESTIGATION OF THE AREA OF  
POTENTIAL EFFECT FOR  
THE WATCHTOWER FARMS IMPROVEMENT PROJECT**

**HAMLET OF WALLKILL, TOWN OF SHAWANGUNK  
ULSTER COUNTY, NEW YORK**

**NEW YORK STATE OFFICE OF PARKS, RECREATION AND HISTORIC  
PRESERVATION PROJECT REVIEW NUMBER 08PR01180**

**Prepared for:**

**The Watchtower Bible and Tract Society of New York, Inc.  
Brooklyn, New York City  
and  
Town of Shawangunk, New York**

**Prepared by:**

**Eugene J. Boesch Ph.D, R.P.A.**

**August 22, 2008**



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## MANAGEMENT SUMMARY

OPRHP Project Review Number: 08PR01180  
Involved State, Federal, and Local Agencies: Town of Shawangunk Planning Board  
Phase of Survey: IB

### Location Information

Location: Town of Shawangunk  
Minor Civil Division: Hamlet of Wallkill  
County: Ulster

Survey Area: Watchtower Farms Improvement Project  
Acreage: 13.25 Acres

USGS 7.5 Minute Quadrangle Map: Napanoch, New York.

### Archaeological Survey Overview

Number and Interval of Shovel Tests 384

### Results of Archaeological Survey:

Number and name of prehistoric sites identified: None  
Number and name of historic sites identified: None

### Results of Architectural Survey

Number of buildings/structures/cemeteries within project area: 25  
Number of buildings/structures/cemeteries adjacent project area: 10  
Number of previously determined NR listed or eligible buildings/  
structures/cemeteries/districts within project area: None  
Number of identified eligible buildings/structures/cemeteries/  
districts adjacent project area: One (Dill Farm located about 2,000 feet to north)

Report Author: Eugene J. Boesch Ph.D., R.P.A.

Date of Report: August 22, 2008



## 1.0 INTRODUCTION

This report presents the results of a Phase IB archaeological investigation of the archaeologically sensitive portions of the area of potential effect (APE) for the Watchtower Farms Improvement Project, located at 900 Red Mills Road in the Hamlet of Wallkill, Town of Shawangunk, Ulster County, New York (Figures 1 - 4). The property is located on parcel 99.04, block 1, lot 11 on the Town of Shawangunk tax map. The APE is located one mile south of the Hamlet of Dwaarkill at the intersection of New Prospect Road and Awosting Road. The Ulster County - Orange County border is located at the Shawangunk River, located less than a quarter mile south of the APE. The Shawangunk Mountains ridgeline, a prominent local natural feature, is located about four miles northwest of the APE.

The sensitive portion of the APE is approximately 13.25 acres in size. Red Mills Road divides it. Thirteen of the archaeologically sensitive acres are located north of Red Mills Road and about a quarter acre of sensitive ground (i.e. the waste water pipeline route of 1,050 linear feet in length by 10 feet in width) is located south of the road. The project property consists of portions of terrace-like topographic features and other areas of high ground north of the Shawangunk River.

The objective of this Phase IB investigation is to determine whether archaeological resources, particularly Native American sites, which are possibly eligible for listing on the New York State and National Registers of Historic Places, are present within the sensitive area.

The Watchtower Farms Improvement Project will consist of the construction of a number of new buildings, expansions of existing structures, installation of utilities, and landscaping of the area (see Boesch 2008; Figure 2).

The New York State Office of Parks, Recreation and Historic Preservation (NYSOPRHP) has assigned the project review number 08PR01180 to the Watchtower Farms Improvement project (Markunas 2007). The study was requested by the Watchtower Bible and Tract Society of New York, Inc. The Town of Shawangunk Planning Board has assumed lead agency status for the purposes of the State Environmental Quality Review Act.

The Phase IB archaeological study has been conducted and this document prepared in accordance with the United States Secretary of the Interior's standards for archaeological surveys and the guidelines and standards currently adopted by the New York State Office of Parks, Recreation, and Historic Preservation (New York Archaeological Council 1994, 2000; New York State Office of Parks, Recreation and Historic Preservation 2005). The objectives of the study are to determine whether Native American period and Historic period archaeological resources are present within the archaeologically sensitive portions of the project's APE and to recommend any necessary further investigations.

### 1.1 Background

In June 2008, a report was submitted to the Watchtower Bible and Tract Society of New York, Inc. presenting the results of a Phase IA archaeological investigation of the proposed Watchtower Farms Improvement Project's APE (Figures 1 – 3; Boesch 2008). The Phase IA report stated that two portions of the APE were sensitive for the presence of Native American archaeological sites. These areas consist of raised ground overlooking the Shawangunk River and an intermittent, seasonal tributary (Boesch 2008:26-27). These two relatively undisturbed areas were termed Zones B and C in the Phase IA report (see Figures 2 and 3). The Phase IA report stated, in part, that the two, relatively undisturbed, archaeologically sensitive areas within the project APE are (Boesch 2008: 26-27; Figure 2):

- Zone B - The existing fenced pasture north of Red Mills Road in the western and northwestern parts of the APE. An intermittent stream extends through the area. The Shawangunk River is located to the south. The area is the proposed location for a new residence building, garage, and recreational facility as well as installed utilities, pathways, roadways, and landscaped grounds;

- Zone C - The existing grassy terrain, agricultural field, and landscaped grounds in the southern portion of the APE, south of Red Mills Road. The area overlooks the Shawangunk River, located about a 100 yards to the south and east. The APE in this area consists of the proposed route of a waste water utility line leading from Red Mills Road to an existing sewage treatment plant. The route through the archaeologically sensitive area is approximately 1,050 feet long and 10 feet wide.

The Phase IA report determined that the APE was not sensitive for the presence of Historic period archaeological sites (Boesch 2008:27).

Part of the northeastern portion of the Zone B pasture was filled about 15 years ago. The fill derived from construction of an above ground parking structure located elsewhere on the Watchtower Farms property. Sub-surface testing of the area encountered this fill (see Chapter 2.2.1).

Zone A within the APE consisted of the previously developed portion of the Watchtower Farms property, It was not considered to be archaeologically sensitive (Boesch 2008:26; Figures 2 and 3).

The Phase IA report recommended that sub-surface investigation consisting of the excavation of archaeological shovel tests be conducted following current New York State Office of Parks, Recreation, and Historic Preservation standards within the archaeologically sensitive portions of the APE for the project (see Figures 2 and 3). Testing specifically designed to investigate for the presence of Historic period archaeological sites was determined not to be warranted (Boesch 2008:27).

## **1.2 Description of the Proposed Watchtower Farms Improvement Project's Area of Potential Effect**

The archaeologically sensitive and non-sensitive portions of the APE for the project at Watchtower Farms are approximately 51 acres in size. Approximately 36 of the APE acres north of Red Mills Road consist of the previously developed part of the Watchtower Farms property. This area was referred to in the Phase IA report as Zone A and was considered not to be archaeologically sensitive due to prior disturbance (Boesch 2008: 26-27).

The portion of the Watchtower Farms property west of the main cluster of buildings includes the remaining 13 acres of the APE north of Red Mills Road. It consists of formerly cultivated land now used primarily as seed pasture but also utilized as an overflow parking lot and recreational fields. The 13 acres are the planned locations of a new parking garage, recreation building, roadways, below ground utilities, and landscaped grounds (Photographs 1 - 5; Figures 2 - 4). The area was referred to as Zone B in the Phase IA report (Boesch 2008; see Figures 2 and 3).

The approximately 0.25 acre portion of the APE south of Red Mills Road is the planned location of a below ground waste water utility line leading from the main property access road and Red Mills Road to the Farm's existing wastewater treatment facility. The proposed pipeline route is approximately 1,050 feet long. The width of the pipe trench will be approximately 10 feet. From Red Mills Road, the route of the planned utility will extend along the edge of an existing agricultural field and across landscaped grounds and grassy terrain to the waste water treatment facility (Photographs 6 - 10; Figures 2 and 3). The area was referred to as Zone C in the Phase IA report (Boesch 2008; see Figure 2).

None of the soils mapped for the area consist of alluvial deposits so the presence of deeply buried Native American archaeological sites within the tested area was considered unlikely by the previously completed Phase IA investigation report of the project area (Boesch 2008:9-11).

## **1.3 Methodology**

The Phase IB testing of the archaeologically sensitive portions of the APE consisted of the excavation of 384 archaeological shovel tests (Figures 2 and 3). The shovel tests typically covered approximately 0.75 square meters (2.5 square feet) of ground surface and were extended to depths below which naturally occurring,

culturally sterile, sub-soil was encountered. Each shovel test was excavated stratigraphically. The purpose of the shovel tests was to determine whether archaeological deposits and/or Native American artifacts were present in the tested area. Three hundred and seventy (370) shovel tests were located in the pasture (Zone B) north of Red Mills Road while 14 shovel tests were located along the waste water utility line route south of that road (Zone C; Figures 2 and 3).

All soil removed from the shovel tests was screened through 1/4 inch mesh (hardware cloth) to detect the presence of artifacts. Separation of artifacts from different stratigraphic contexts was maintained to the extent possible with the procedures used.

Artifacts were returned to the laboratory where they were washed, tabulated, and placed in plastic bags labeled according to provenience. Appendix A to the report lists the stratigraphy encountered in each test and the artifacts recovered from each stratigraphic context. Appropriate metrics are provided for the artifacts. Shovel test locations are shown on Figure 3 with each shovel test identified by a number (1 – 384).

The testing strategy involved the placement of shovel tests at approximately 50 foot intervals within the archaeologically sensitive portions of the APE. In locations where tests revealed the presence of Native American activity or Historic period deposits, the methodology required additional shovel tests to be excavated in the immediately surrounding area to further investigate those locations. The additional tests were excavated at the cardinal locations surrounding the spot of the initial shovel test find at three meter and five meter intervals. One gray black chert flake, possibly resulting from Native American activity, was found in shovel test # 182. This was the only location within the tested area that required the placement of additional tests.

The first stage of analysis consisted of laboratory processing of the artifacts recovered. Each artifact was cleaned, examined, and identified as to type, function, cultural affiliation, and period of manufacture where possible. The cleaned artifacts were placed in labeled plastic bags.

The second stage of analysis consisted of studying the stratigraphy encountered by the shovel tests in conjunction with the artifacts recovered in order to interpret the survey results.

Appendix B indicates the locations of the photographic views included in this report as Photographs 1 - 10.

## **2.0 RESULTS OF FIELD TESTING**

### **2.1 Introduction**

Sub-surface testing of the archaeologically sensitive portions of the APE for the Watchtower Farms Improvement Project was aimed at detecting any possibly significant deposits associated with Native American or Historic period utilization of the area that may be present. Any Native American materials most likely would be associated with small unrecorded campsites oriented towards the exploitation of subsistence resources associated with the Shawangunk River, its tributaries, and/or valley. The most likely setting for such camp sites are the terrace-like areas and other raised ground that border the river. None of the soils mapped for the area consist of alluvial deposits so the presence of deeply buried Native American archaeological sites within the tested area was considered unlikely by the previously completed Phase IA report for project area (Boesch 2008: 9-11). The tested area also is considered not to be sensitive for Historic period archaeological resources (see Boesch 2008:26-27).

Three hundred and eighty-four (384) archaeological shovel tests were excavated within the sensitive portions of the APE. Three hundred and seventy (370) shovel tests (numbers 1-370) were located in the pasture (Zone B) north of Red Mills Road and west of the Watchtower Farms buildings while 14 (numbers 371-384) shovel tests were located along the waste water utility line route south of that road (Zone C; Figure 3). In general, the testing strategy involved the placement of shovel tests at approximately 50 foot intervals within the archaeologically sensitive portion of the APE. Areas of steep slope (greater than 15 degrees in slope) were not tested. The purpose of the tests was to determine the stratigraphic sequence present within the tested area and discover whether any Native American or Historic period artifacts were associated with those strata.

The stratigraphy encountered in each sub-surface test excavated during the field testing and an inventory of the artifacts recovered are presented in Appendix A.

### **2.2 Field Results**

Four stratigraphic sequences were encountered by the 370 shovel tests excavated in the pasture north of Red Mills Road in Zone B. One of the sequences was encountered in shovel test #s 1 - 81 located in the northern most portion of Zone B; the second sequence was seen in 191 shovel tests (numbers 82 - 264 and 363 - 370), located in the eastern, western, and central portions of Zone B; the third sequence was encountered by 86 shovel tests (numbers 265 - 324 and 336 - 362), located in the western portion of Zone B; and the fourth sequence was encountered in the southwestern portion of Zone B by 11 shovel tests (numbers 325 - 335; Figure 3). The nature of the stratigraphy indicated that Zone B previously had been cultivated or used for pasture with the northern most portion of the Zone also being filled relatively recently. Some erosion also has occurred there.

Five stratigraphic sequences indicative of disturbed soils were encountered by the 14 shovel tests excavated along the waste water utility line route south of Red Mills Road, reflecting the various uses to which different portions of the area have been put (Figures 2 and 3). These include landscaped grounds, cultivation, and construction (Photographs 7 - 10). One sequence was revealed in a grassy lawn along the force main route immediately south of Red Mills Road in shovel tests 371 - 373. The sequence indicated ground disturbance had occurred there, probably as a result of landscaping. The second sequence was encountered in shovel tests 374 - 375 which were located along the margin of a currently cultivated field. The sequence revealed the presence of a plow zone overlying the natural sub-soil. The third sequence was revealed in shovel tests 376 and 377 which were located immediately east of an existing Watchtower Farms maintenance building. The sequence revealed graded and otherwise disturbed soils. The fourth sequence was encountered in shovel tests 378 - 380 which were located south of the maintenance building. The sequence also revealed graded and otherwise disturbed soils. The fifth sequence was seen in shovel tests 381 - 384 which were located near the existing waste water treatment facility. The sequence also revealed disturbed soils likely resulting from construction of that facility or the installation of existing pipelines and utilities leading to it.

## **2.2.1 Zone B – The Pasture North of Red Mills Road: Shovel Tests 1 - 370**

### **Shovel Tests 1 – 81**

The initial three to seven centimeters seen in shovel test #'s 1 - 81 consisted of relatively recently developed surface sod ( Stratum I) below which was a four to 11 centimeter thick layer of light gray brown sandy silt (Stratum II). Stratum II represents the relatively recently formed, underlying leaching zone layer beneath the sod. Together Strata I and II represent the recently formed near surface soils for the pasture. Cultural material recovered from the strata consist of a small quantity of relatively recently manufactured items such as plastic, glass, oxidized metal, and wire nails recovered from shovel test #s 4, 5, 9, 17, 22, 39, 66, 70, 72, 74 and 79.

Below Stratum I in shovel tests 1 – 81 was encountered a mottled and compact layer of orange brown clayey silt (Stratum III) that reportedly is fill that was placed in this portion of the pasture about 15 years ago when a nearby above ground parking garage was constructed on the Watchtower property. The fill was found to be between 36 and 47 centimeters thick. No artifacts were found to be associated with the Stratum III. Below the fill was encountered a layer of brown sandy silt (Stratum IV) that was between 12 and 24 centimeters thick, extending to between 68 and 76 centimeters below grade. Stratum IV appears to represent a former plow zone or other agricultural layer in the pasture. However, the relative thinness of the deposit suggest that the area may have been graded prior to the placement of the fill. A fragment of amber tinted glass from shovel test # 48 and a piece of oxidized metal from shovel test # 67 were the only items of cultural material recovered from the former plow zone stratum in shovel test #s 1 – 81.

Below the former plow zone layer, at 68 to 74 centimeters below grade, was encountered the culturally sterile sub-soil which in shovel tests 1 – 81 was a light brown clayey silt mixed with some sand (Stratum V).

### **Shovel Tests 82 – 264 and 363 – 370**

The stratigraphic sequence seen in these 191 shovel tests was similar to that seen in shovel test #s 1-81 with the exception that a layer of fill was deposited over the plow zone stratum.

The initial three to seven centimeters seen in shovel test #'s 82 – 264 and 363 – 370 was the relatively recently developed near surface soils which consists of sod ( Stratum I) and an underlying leaching zone of light brown sandy silt (Stratum II). The sod ranged between three and seven centimeter in thickness while the underlying light gray brown sandy silt leaching zone was between four and 12 centimeters thick. Small quantities of rubber, plastic, glass, metal, red brick, concrete, wire nails, metal, unglazed redware, a spark plug, and painted wood were the only artifacts recovered from this context in 18 of the shovel tests (#'s 82, 87, 91, 97, 101, 106, 109, 111, 147, 198, 203, 210, 215, 232, 249, 251, 252, and 263). All the artifacts were of relatively recent manufacture.

Below Strata I and II was encountered a layer of brown sandy silt (Stratum III) that was between 13 and 50 centimeters thick, extending to between 58 and 65 centimeters below grade. Stratum III appears to represent a former plow zone or other agricultural layer in the pasture. No fill was found to overlie it as seen in shovel test #s 1 – 81. Fragments of oxidized metal, glass, slag, and unglazed redware from shovel test #s 114, 117, 177, and 206 were the only items of Historic period or relatively recently manufactured cultural material recovered from the former plow zone stratum in shovel test #s 82 – 264 and 363 – 370.

In addition to the items mentioned, one gray black chert flake was recovered from the plow zone layer in shovel test # 182. The flake likely derived from Native American activity in the area. Due to the recovery of the flake, eight additional shovel tests (shovel tests # 363 – 370) were excavated in the immediate vicinity of shovel test 182. Four of the tests (numbers 363 – 366) were located three meters to the north, south, east, and west of the test. Four other tests (numbers 367 – 370) were located in the same directions five meters from test # 182. No additional evidence of Native American cultural material was encountered in any of the eight tests. The stratigraphy encountered in shovel test #s 363 – 370 was similar to that encountered in shovel test #s 182 (i.e. near surface soils overlying a plow zone layer and the culturally sterile sub-soil).

Below the former plow zone layer, at 69 to 73 centimeters below grade, was encountered the culturally sterile sub-soil which in shovel test #s 82 – 264 and 363 – 370 was a light brown clayey silt mixed with some sand (Stratum IV).

#### **Shovel Tests 265 – 324 and 336 - 362**

The stratigraphic sequence seen in these 87 shovel tests was similar to that seen in shovel test #s 82 – 264 and 363- 370 with the exception that the plow zone stratum appeared to be darker in color, perhaps as a result of a higher moisture and/or organic content.

The initial strata seen in shovel test #'s 265 – 324 and 336 – 362 was the relatively recently developed near surface soils which consists of sod ( Stratum I) and an underlying leaching zone of light brown sandy silt (Stratum II). The sod ranged between three and seven centimeter in thickness while the underlying light gray brown sandy silt leaching zone was between five and 13 centimeters thick. Small quantities of charcoal, glass, oxidized barbed wire, and a glass marble were recovered from the near surface soil layers in five of these shovel tests (#'s 274, 284, 296, and 308). With the exception of the barbed wire, all the artifacts recovered from these contexts were of relatively recent manufacture.

Below Strata I and II, between 11 and 17 centimeters below grade, was encountered a layer of dark brown sandy silt (Stratum III) that was between 47 and 51 centimeters thick, extending to between 60 and 67 centimeters below grade. Stratum III appears to represent a former plow zone or other agricultural layer in the pasture. No fill was found to overlie it as seen in these 87 shovel tests. In addition, no cultural material was recovered from the plow zone layer in shovel tests 265 – 324 and 336 - 362.

Below the former plow zone layer, at 47 to 51 centimeters below grade, was encountered the culturally sterile sub-soil which in shovel tests 265 – 324 and 336 – 362 was a layer of yellow brown clayey silt mixed with some sand (Stratum IV).

#### **Shovel Tests 325 – 335**

These 11 shovel tests were located near a swale-like terrain feature. The stratigraphic sequence encountered indicated that erosion had occurred there relatively recently removing the plow zone layer. Only near surface soils overlying the natural sub-soil were encountered there.

The initial strata seen in shovel test #'s 325 – 335 was the relatively recently developed near surface soils which consists of sod ( Stratum I) and an underlying leaching zone of light gray brown sandy silt (Stratum II). The sod ranged between four and five centimeter in thickness while the underlying leaching zone was between eight and 12 centimeters thick. One piece of insulated copper wire, recovered from the sod in shovel test # 327, was the only item of cultural material recovered from these contexts.

Below Strata I and II, between 12 and 16 centimeters below grade, was encountered the culturally sterile sub-soil which in shovel test #s 325 – 335 was a layer of yellow brown clayey silt mixed with some sand (Stratum III).

### **2.2.2 Zone C – Waste Water Utility Line Route South of Red Mills Road: Shovel Tests 371 - 384**

#### **Shovel Tests 371 – 373**

These shovel tests were located along the water utility line route just south of Red Mills Road and just east of an access driveway in a grassy area that appears to have been graded or landscaped (Figure 3; Photograph 7). The initial five centimeters seen in shovel test #'s 371 – 373 consisted of relatively recently developed sod (Stratum I). Below it was a nine to ten inch thick layer of light gray brown sandy silt (Stratum II) that represents a near surface leaching zone below the sod. Below Stratum II, at 24 to 26 centimeters below grade, was a 10 to 12



centimeter thick layer of compacted light tan sandy silt (Stratum III), which represents fill or an otherwise disturbed soil layer. Beneath the compacted soil, at 24 to 26 inches below grade, was a four to seven centimeter thick layer of yellow brown sandy silt with light tan sandy silt mottles (Stratum IV) that represents a soil layer transitional to the naturally occurring sub-soil. Underlying the sub-soil transition layer, at 30 to 31 centimeters in depth, was encountered the naturally occurring sub-soil, which in shovel test #s 371 – 373 was a yellow brown sandy silt (Stratum V). One fragment of green plastic recovered from the sod in shovel test # 372 was the only artifact recovered from the contexts revealed in shovel test #s 371 – 373.

#### **Shovel Tests 374 – 375**

These shovel tests were located along the water utility line route at the margins of a currently cultivated field south of Red Mills Road (Figure 3). The initial 31 to 37 centimeters seen in the two shovel test consisted of a 25 centimeter thick layer of dark brown sandy silt with pebbles (Stratum I) followed by a six to 12 centimeter thick layer of brown sandy silt with pebbles (Stratum II). The two strata represent the plow zone for the currently cultivated field. The upper stratum is slightly darker in color than Stratum II likely because of increased moisture content. Underlying Stratum II, at 31 to 37 centimeters in depth, was encountered the naturally occurring sub-soil, which in shovel test #s 374 and 375 was a yellow brown sandy silt (Stratum III). One fragment of black plastic from the upper plow zone layer in shovel test # 374 was the only artifact recovered from the contexts revealed in shovel test #s 374 – 375.

#### **Shovel Tests 376 – 377**

These two shovel tests were located along the water utility line route just east of an existing maintenance building. The area appears to be disturbed with no vegetation covering the surface (Figure 3). The initial three centimeters seen in the two shovel test consisted of a layer of gray brown sandy silt (Stratum I) that likely represents disturbed top soil. Below Stratum I was a five to seven centimeter thick layer of brown sandy silt with gravel (Stratum II) that appears to represent a disturbed, remnant plow zone. The currently cultivated field is located about 20 feet to the east and north of the tests. It is likely that the locations of the tests had been cultivated prior to the construction of the nearby maintenance building. Underlying Stratum II, at eight to ten centimeters in depth, was encountered the naturally occurring sub-soil, which in shovel test #s 376 and 377 was a yellow brown sandy silt (Stratum III). No artifacts were recovered from the contexts revealed in the two shovel tests.

#### **Shovel Tests 378 – 380**

These three shovel tests were located along the water utility line route just south of an existing maintenance building for Watchtower Farm (Figure 3). The area appears to have been landscaped, consisting of a grassy lawn with planted trees. The initial five centimeters seen in the three shovel tests consisted of the modern sod (Stratum I), below which was a 15 to 17 centimeter thick layer of gray brown sandy silt with pebbles (Stratum II) that likely represents a disturbed leaching zone underlying the sod. Beneath Stratum II, at 20 to 22 centimeters in depth was encountered the naturally occurring sub-soil, which in shovel test #s 378 and 380 was a yellow brown sandy silt (Stratum III). One fragment of green tinted bottle glass from the sod in shovel test # 378 and an aluminum can fragment from the sod in shovel test # 379 were the only artifacts recovered from the contexts revealed in shovel test #'s 378 – 380.

#### **Shovel Tests 381 – 384**

These three shovel tests were located along the southern most portion of the water utility line route in the vicinity of an existing waste water treatment facility (Figure 3). The area appears to have been disturbed by construction of that facility and the installation of water and waste water pipes and other utilities leading to it. The initial five centimeters seen in the three shovel test consisted of the modern sod (Stratum I). Below it was an 18 to 23 centimeter thick layer of light tan sandy silt with gravel (Stratum II) that likely represents a disturbed leaching

zone and/or fill layer underlying the sod. Beneath Stratum II, at 23 to 28 centimeters in depth was encountered the naturally occurring sub-soil, which in shovel test #s 381 and 384 was a yellow brown sandy silt (Stratum III). No artifacts were recovered from the contexts revealed in the three shovel tests.

## **3.0 CONCLUSIONS AND RECOMMENDATIONS**

### **3.1 Conclusions**

Sub-surface testing within the archaeologically sensitive portions of the Watchtower Farms Improvement Project's Area of Potential Effect did not encounter any Historic period or Native American sites of potential significance (Figures 2 and 3). One Native American period gray black chert flake was recovered from a former plow zone context from shovel test # 182, located north of Red Mills Road, but the excavation of eight additional tests in the immediate vicinity (at three and five meter intervals) of the find did not encounter other Native American artifacts. The chert flake, therefore, was considered to be an isolated find. Other than a piece of oxidized barb wire and slag, as well as the chert flake, all of the artifacts found were of relatively recent manufacture.

#### **3.1.1 Stratigraphic Sequences North of Red Mills Road (Zone B)**

Three hundred and seventy (370) shovel tests were excavated in the pasture north of Red Mills Road in the area referred to in this report as Zone B (Figure 3). The shovel tests revealed the presence in the Zone of four stratigraphic sequences. The nature of the stratigraphy indicate that Zone B previously had been cultivated or used for pasture with the northern most portion of the Zone also being filled relatively recently. Some erosion also has occurred there. These soil sequences are:

- The stratigraphy within Zone B encountered in shovel test #s 1 - 81 located in the northern most portion of Zone B. The shovel tests revealed the presence of relatively recently developed soil and relatively recently deposited fill, overlying a former plow zone layer and the naturally occurring sub-soil. The fill reportedly was placed in the area about 15 years ago, deriving from the excavation for an existing parking garage located just to the east of the Zone. No Historic period or Native American period sites were identified by these shovel tests.
- The second stratigraphic sequence was seen in shovel test #s 82 – 264 and 363 - 370, located in the eastern, western, and central portions of Zone B. The soil sequence revealed the presence of relatively recently developed near surface soils overlying a former plow zone layer and the naturally occurring sub-soil. No Historic period or Native American period sites were identified by these shovel tests. The single, isolate find, the Native American period gray black chert flake mentioned above was found in this area in shovel test # 182. Additional investigation within five meters of the initial find location did not reveal additional Native American artifacts or other evidence of Native American activity.
- The third stratigraphic sequence was encountered by shovel tests 265 – 324 and 336 - 362, located in the western portion of Zone B. The soil sequence revealed the presence of relatively recently developed near surface soils overlying a former plow zone layer and the naturally occurring sub-soil. The plow zone revealed in these shovel tests was slightly darker in color than that seen in shovel test #s 82 - 264 and 363 – 370, likely as a result of an increased moisture content. No Historic period or Native American period sites were identified by these shovel tests.
- The fourth sequence was encountered in the southwestern portion of Zone B by shovel test #s 325 – 335. The soil sequence revealed the presence of relatively recently former, near surface soils overlying the naturally occurring sub-soil. The plow zone was not present in this location which is a swale-like area. It either had eroded or the localized area was never plowed, preventing the plow zone layer from forming

### 3.1.2 Stratigraphic Sequences South of Red Mills Road (Zone C)

The fourteen shovel tests excavated south of Red Mills Road along the proposed route of the project's waste water utility line revealed five stratigraphic sequences, reflecting the various uses to which different portions of the area have been put (Figures 2 and 3; Photographs 7 – 10). These include landscaped grounds, cultivation, and construction. The area is referred to in this report as Zone C. These soil sequences are:

- The stratigraphy revealed in a grassy lawn along the waste water utility line route immediately south of Red Mills Road by shovel test #s 371 – 373. Underlying the relatively recently formed, near surface soils was a disturbed soil layer overlying the naturally occurring sub-soil. The sequence indicated ground disturbance had occurred in the area, probably as a result of landscaping. No Historic period or Native American period sites, or isolated Native American artifacts, were identified by these shovel tests.
- The second sequence was encountered in shovel test #s 374 – 375 which were excavated along the margin of a currently cultivated field. The sequence revealed the presence of a plow zone overlying the natural sub-soil. No Historic period or Native American period sites, or isolated Native American artifacts, were identified by these shovel tests.
- The third sequence was revealed in shovel test #s 376 and 377, located immediately east of an existing Watchtower Farms maintenance building. The sequence revealed graded and otherwise disturbed soils overlying the naturally occurring sub-soil. No Historic period or Native American period sites, or isolated Native American period artifacts, were identified by these shovel tests.
- The fourth sequence was encountered in shovel test #s 378 – 380, located south of the maintenance building. The sequence also revealed graded and otherwise disturbed soils overlying the naturally occurring sub-soil. No Historic period or Native American period sites, or isolated Native American artifacts, were identified by these shovel tests.
- The fifth sequence was seen in shovel test #s 381 – 384 which were located near the existing waste water treatment facility for Watchtower Farms. The sequence also revealed relatively recently formed, near surface soils and disturbed soils, the latter likely resulting from construction of the waste water treatment facility or the installation of existing pipelines and utilities leading to it, overlying the naturally occurring sub-soil. No Historic period or Native American period sites, or isolated Native American artifacts, were identified by these shovel tests.

### 3.2 Recommendations

Based upon the results of the fieldwork, no additional archaeological investigations are recommended for the proposed Watchtower Farms Improvement Project's Area of Potential Effect.

#### 4.0 REFERENCES CITED

Boesch, Eugene

- 2008 Phase IA Archaeological Investigation of the Area of Potential Effect for the Watchtower Farms Improvement Project Hamlet of Wallkill, Town of Shawangunk Ulster County, New York. New York State Office of Parks, Recreation and Historic Preservation Project Review Number 08PR01180. Prepared for the Watchtower Bible and Tract Society of New York, Inc. Brooklyn and the Town of Shawangunk, New York.

Markunas, Kenneth

- 2007 "Letter to Mr. Kris Pedersen, Chairman, Town of Shawangunk Planning Board, Wallkill, New York from Mr. Kenneth Markunas, Historic Sites Restoration Coordinator, New York State Office of Parks, Recreation and Historic Preservation, Historic Preservation Field Services Bureau." November 16, 2007.

United States Geological Survey

- 1956 Napanoch New York, 7.5 Minute Series (Topographic). United States Department of the Interior, Geological Survey, Washington, D.C. Photo revised 1981.

Watchtower Bible and Tract Society of New York, Inc.

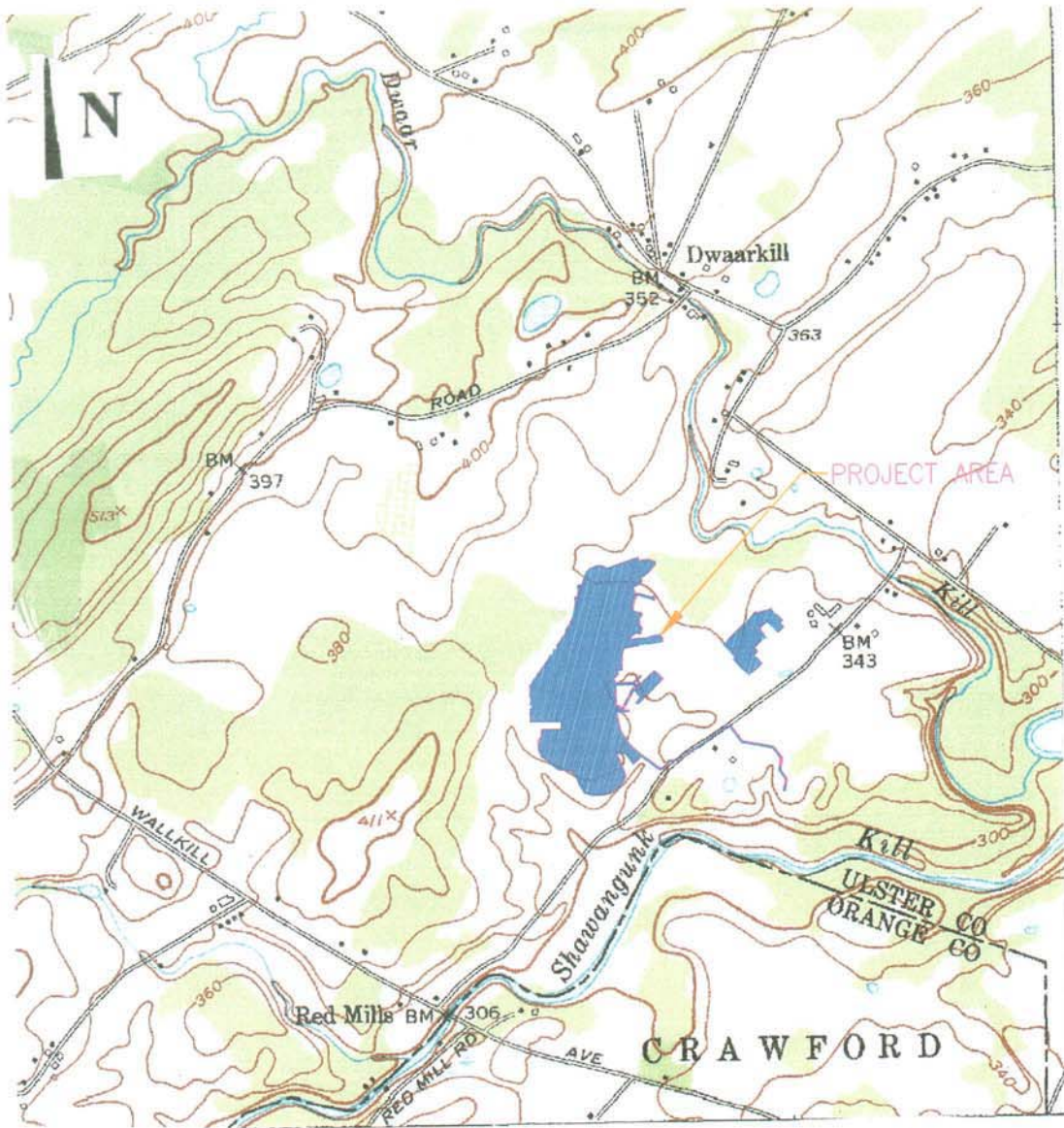
- 2007 Draft Environmental Impact Statement for the Watchtower Farms Improvement Project, Town of Shawangunk, New York. Copy on file at the Watchtower Farms, Town of Shawangunk, New York.



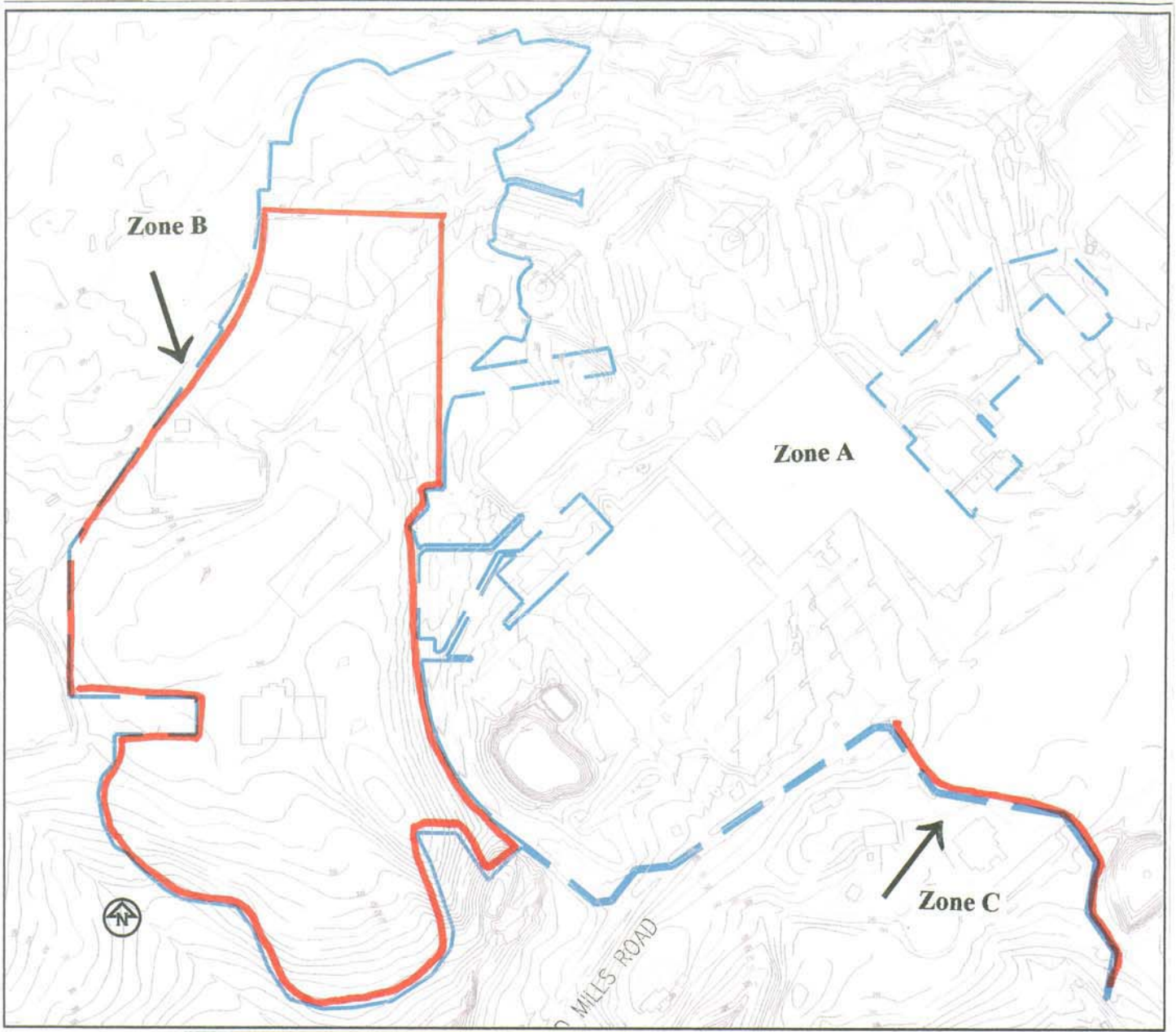
## **FIGURES**







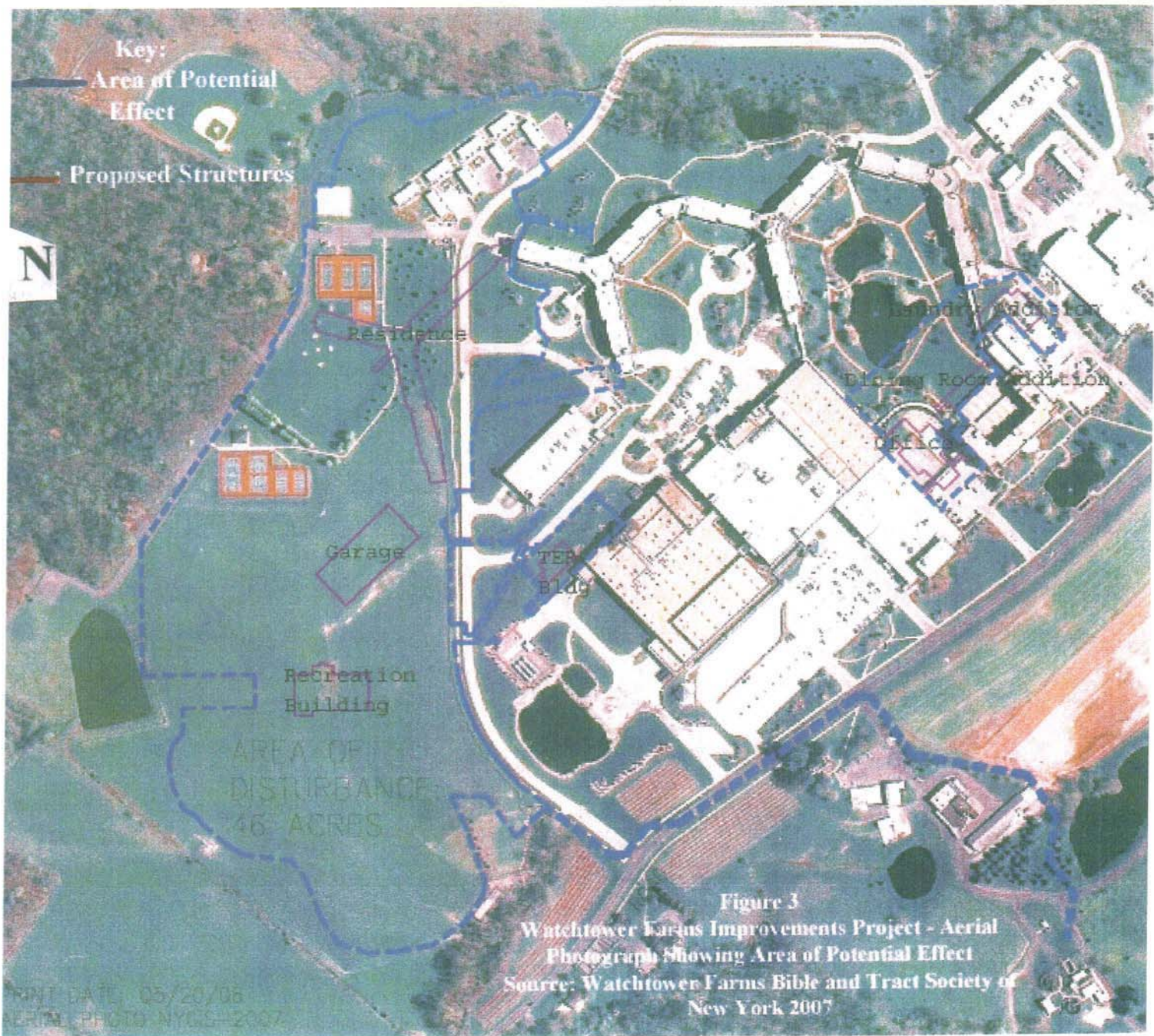
**Figure 1**  
**Watchtower Farms Improvement Project Area Region**  
**Base Map Source: United States Geological Survey 1956**  
**Scale of Original: 1:24,000**  
**Contour Interval: 20 Feet**



**Key:**

- : Area of Potential Effect
- : Archaeologically Sensitive Portion of the Area of Potential Effect

**Figure 2**  
**Existing Conditions for the Watchtower Farms Improvement Project –**  
**Archaeologically Sensitive Portion of the Project's Area of Potential Effect**  
 Source: Watchtower Farms Bible and Tract Society of New York, Inc. 2007



Key:

1 - 384 : Locations of Archaeological Shovel Tests

— : Area of Potential Effect

— : Archaeologically Sensitive Portion of the Area of Potential Effect

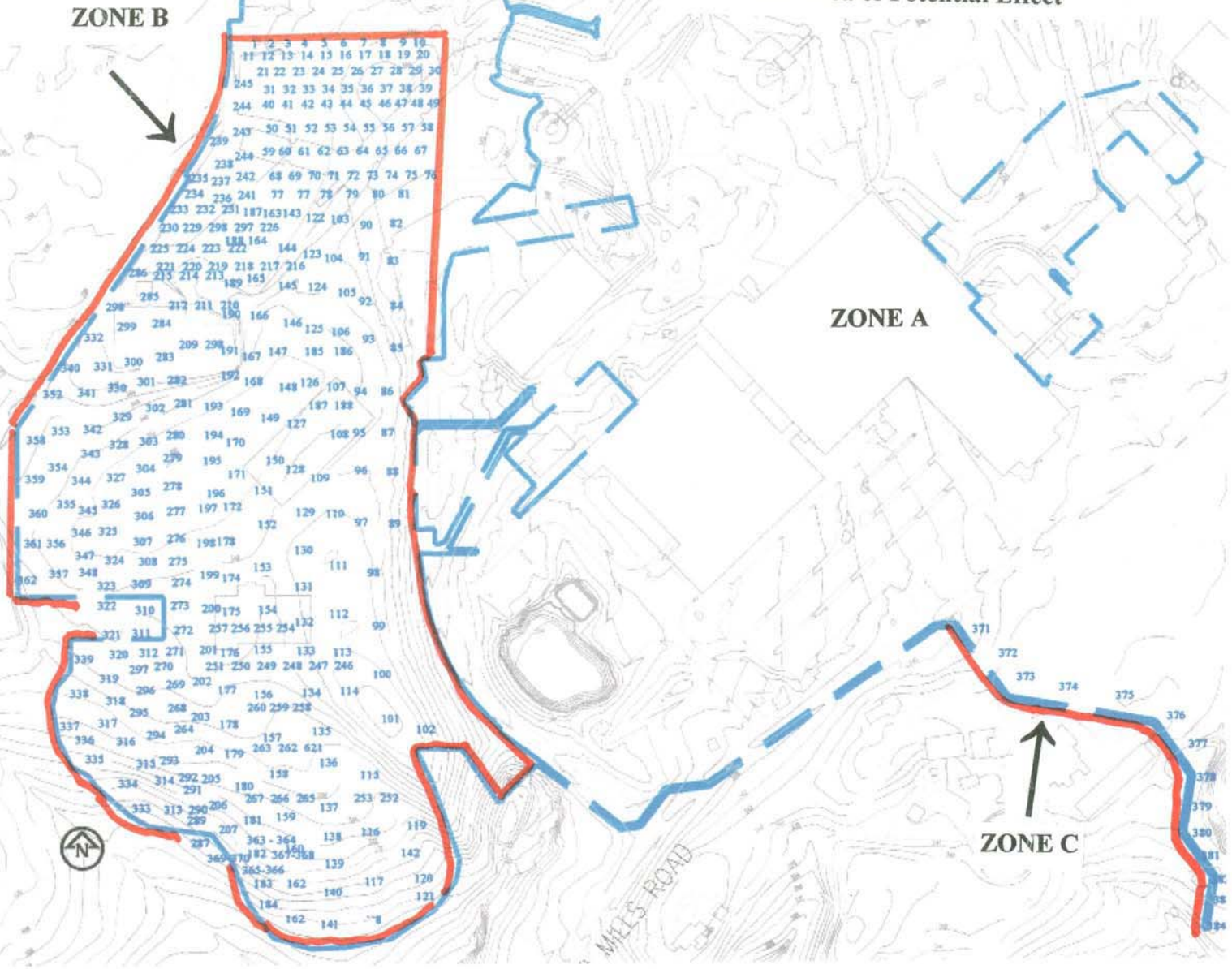


Figure 4

The Watchtower Farms Improvement Project – Archaeologically Sensitive Portion of the Area of Potential Effect Showing the Locations of Archaeological Shovel Tests

## **PHOTOGRAPHS**





**Photograph 1**

**Southwestern Portion of Zone B; View is to the Southwest**



**Photograph 2**

**Southeastern Portion of Zone B; View is to the Northeast**





**Photograph 3**

**East Central Portion of Zone B; View is to the Southeast**



**Photograph 4**

**West Central Portion of Zone B; View is to the East**



**Photograph 5**

**Northwestern Portion of Zone B; View is to the Northwest**



**Photograph 6**

**Northeastern Portion of Zone B; View is to the Northeast**



**Photograph 7**

**Northern Portion of Waste Water Utility Line Route in Zone C; View is to the South**



**Photograph 8**

**North Central Portion of Waste Water Utility Line Route in Zone C; View is to the Southwest**



**Photograph 9**

**South Central Portion of Waste Water Utility Line Route in Zone C; View is to the South**



**Photograph 10**

**Southern Portion of Waste Water Utility Line Route in Zone C; View is to the Southwest**



## **APPENDICES**



**APPENDIX A**

**SHOVEL TEST STRATIGRAPHY AND ARTIFACT INVENTORY**



**ZONE B – NORTH OF RED MILLS ROAD**

SHOVEL TEST	STRA.	DEPTH (cm.)	DESCRIPTION	CONTEXT	CULTURAL MATERIAL
1	I	0-5	Sod	Modern Surface	None
1	II	5-10	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
1	III	10-53	Orange Brown Clayey Silt	Fill	None
1	IV	50-70	Brown Sandy Silt	Former Plow Zone	None
1	V	70-80	Light Brown Clayey Silt with Sand	Sub-soil	None
2	I	0-5	Sod	Modern Surface	None
2	II	5-11	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
2	III	11-55	Orange Brown Clayey Silt	Fill	None
2	IV	55-73	Brown Sandy Silt	Former Plow Zone	None
2	V	73-82	Light Brown Clayey Silt with Sand	Sub-soil	None
3	I	0-6	Sod	Modern Surface	None
3	II	6-10	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
3	III	10-50	Orange Brown Clayey Silt	Fill	None
3	IV	50-70	Brown Sandy Silt	Former Plow Zone	None
3	V	70-85	Light Brown Clayey Silt with Sand	Sub-soil	None
4	I	0-7	Sod	Modern Surface	None
4	II	7-11	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	1 fragment clear plastic
4	III	11-55	Orange Brown Clayey Silt	Fill	None
4	IV	55-69	Brown Sandy Silt	Former Plow Zone	None
4	V	69-81	Light Brown Clayey Silt with Sand	Sub-soil	None
5	I	0-5	Sod	Modern Surface	None
5	II	5-10	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	2 fragments green tinted bottle glass
5	III	10-57	Orange Brown Clayey Silt	Fill	None
5	IV	57-70	Brown Sandy Silt	Former Plow Zone	None
5	V	70-81	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
6	I	0-5	Sod	Modern Surface	None
6	II	5-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
6	III	12-50	Orange Brown Clayey Silt	Fill	None
6	IV	50-71	Brown Sandy Silt	Former Plow Zone	None
6	V	71-82	Light Brown Clayey Silt with Sand	Sub-soil	None
7	I	0-4	Sod	Modern Surface	None
7	II	4-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
7	III	12-54	Orange Brown Clayey Silt	Fill	None
7	IV	54-70	Brown Sandy Silt	Former Plow Zone	None
7	V	70-81	Light Brown Clayey Silt with Sand	Sub-soil	None
8	I	0-5	Sod	Modern Surface	None
8	II	5-10	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
8	III	10-55	Orange Brown Clayey Silt	Fill	None
8	IV	55-73	Brown Sandy Silt	Former Plow Zone	None
8	V	73-81	Light Brown Clayey Silt with Sand	Sub-soil	None
9	I	0-6	Sod	Modern Surface	1 fragment oxidized metal; wt.: 3.2 grams
9	II	6-11	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
9	III	11-51	Orange Brown Clayey Silt	Fill	None
9	IV	51-68	Brown Sandy Silt	Former Plow Zone	None
9	V	68-80	Light Brown Clayey Silt with Sand	Sub-soil	None
10	I	0-5	Sod	Modern Surface	None
10	II	5-10	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
10	III	10-51	Orange Brown Clayey Silt	Fill	None
10	IV	51-73	Brown Sandy Silt	Former Plow Zone	None
10	V	73-80	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
11	I	0-5	Sod	Modern Surface	None
11	II	5-11	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
11	III	11-54	Orange Brown Clayey Silt	Fill	None
11	IV	54-73	Brown Sandy Silt	Former Plow Zone	None
11	V	73-81	Light Brown Clayey Silt with Sand	Sub-soil	None
12	I	0-4	Sod	Modern Surface	None
12	II	4-11	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
12	III	11-55	Orange Brown Clayey Silt	Fill	None
12	IV	55-72	Brown Sandy Silt	Former Plow Zone	None
12	V	72-86	Light Brown Clayey Silt with Sand	Sub-soil	None
13	I	0-5	Sod	Modern Surface	None
13	II	5-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
13	III	12-56	Orange Brown Clayey Silt	Fill	None
13	IV	56-71	Brown Sandy Silt	Former Plow Zone	None
13	V	71-81	Light Brown Clayey Silt with Sand	Sub-soil	None
14	I	0-6	Sod	Modern Surface	None
14	II	6-11	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
14	III	11-50	Orange Brown Clayey Silt	Fill	None
14	IV	50-70	Brown Sandy Silt	Former Plow Zone	None
14	V	70-80	Light Brown Clayey Silt with Sand	Sub-soil	None
15	I	0-5	Sod	Modern Surface	None
15	II	5-10	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
15	III	10-51	Orange Brown Clayey Silt	Fill	None
15	IV	51-73	Brown Sandy Silt	Former Plow Zone	None
15	V	73-80	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
16	I	0-4	Sod	Modern Surface	None
16	II	4-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
16	III	15-55	Orange Brown Clayey Silt	Fill	None
16	IV	55-74	Brown Sandy Silt	Former Plow Zone	None
16	V	74-80	Light Brown Clayey Silt with Sand	Sub-soil	None
17	I	0-4	Sod	Modern Surface	None
17	II	4-10	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	1 fragment yellow tinted glass
17	III	10-54	Orange Brown Clayey Silt	Fill	None
17	IV	54-72	Brown Sandy Silt	Former Plow Zone	None
17	V	72-88	Light Brown Clayey Silt with Sand	Sub-soil	None
18	I	0-5	Sod	Modern Surface	None
18	II	5-11	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
18	III	11-56	Orange Brown Clayey Silt	Fill	None
18	IV	56-70	Brown Sandy Silt	Former Plow Zone	None
18	V	70-81	Light Brown Clayey Silt with Sand	Sub-soil	None
19	I	0-6	Sod	Modern Surface	None
19	II	6-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
19	III	12-52	Orange Brown Clayey Silt	Fill	None
19	IV	52-70	Brown Sandy Silt	Former Plow Zone	None
19	V	70-81	Light Brown Clayey Silt with Sand	Sub-soil	None
20	I	0-6	Sod	Modern Surface	None
20	II	6-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
20	III	12-51	Orange Brown Clayey Silt	Fill	None
20	IV	51-76	Brown Sandy Silt	Former Plow Zone	None
20	V	76-84	Light Brown Clayey Silt with Sand	Sub-soil	None



**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
21	I	0-5	Sod	Modern Surface	None
21	II	5-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
21	III	14-55	Orange Brown Clayey Silt	Fill	None
21	IV	55-75	Brown Sandy Silt	Former Plow Zone	None
21	V	75-85	Light Brown Clayey Silt with Sand	Sub-soil	None
22	I	0-6	Sod	Modern Surface	7 fragments clear glass
22	II	6-11	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
22	III	11-50	Orange Brown Clayey Silt	Fill	None
22	IV	50-71	Brown Sandy Silt	Former Plow Zone	None
22	V	71-82	Light Brown Clayey Silt with Sand	Sub-soil	None
23	I	0-5	Sod	Modern Surface	None
23	II	5-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
23	III	13-56	Orange Brown Clayey Silt	Fill	None
23	IV	56-70	Brown Sandy Silt	Former Plow Zone	None
23	V	70-81	Light Brown Clayey Silt with Sand	Sub-soil	None
24	I	0-7	Sod	Modern Surface	None
24	II	7-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
24	III	12-51	Orange Brown Clayey Silt	Fill	None
24	IV	51-73	Brown Sandy Silt	Former Plow Zone	None
24	V	73-80	Light Brown Clayey Silt with Sand	Sub-soil	None
25	I	0-6	Sod	Modern Surface	None
25	II	6-10	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
25	III	10-52	Orange Brown Clayey Silt	Fill	None
25	IV	52-73	Brown Sandy Silt	Former Plow Zone	None
25	V	73-81	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
26	I	0-5	Sod	Modern Surface	None
26	II	5-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
26	III	13-54	Orange Brown Clayey Silt	Fill	None
26	IV	54-76	Brown Sandy Silt	Former Plow Zone	None
26	V	76-88	Light Brown Clayey Silt with Sand	Sub-soil	None
27	I	0-6	Sod	Modern Surface	None
27	II	6-10	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
27	III	10-50	Orange Brown Clayey Silt	Fill	None
27	IV	50-73	Brown Sandy Silt	Former Plow Zone	None
27	V	73-82	Light Brown Clayey Silt with Sand	Sub-soil	None
28	I	0-6	Sod	Modern Surface	None
28	II	6-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
28	III	12-57	Orange Brown Clayey Silt	Fill	None
28	IV	57-72	Brown Sandy Silt	Former Plow Zone	None
28	V	72-81	Light Brown Clayey Silt with Sand	Sub-soil	None
29	I	0-8	Sod	Modern Surface	None
29	II	8-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
29	III	13-56	Orange Brown Clayey Silt	Fill	None
29	IV	56-74	Brown Sandy Silt	Former Plow Zone	None
29	V	74-82	Light Brown Clayey Silt with Sand	Sub-soil	None
30	I	0-7	Sod	Modern Surface	None
30	II	7-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
30	III	13-55	Orange Brown Clayey Silt	Fill	None
30	IV	55-73	Brown Sandy Silt	Former Plow Zone	None
30	V	73-82	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
31	I	0-5	Sod	Modern Surface	None
31	II	5-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
31	III	13-56	Orange Brown Clayey Silt	Fill	None
31	IV	56-75	Brown Sandy Silt	Former Plow Zone	None
31	V	75-83	Light Brown Clayey Silt with Sand	Sub-soil	None
32	I	0-6	Sod	Modern Surface	None
32	II	6-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	2 fragments clear glass
32	III	13-49	Orange Brown Clayey Silt	Fill	None
32	IV	49-72	Brown Sandy Silt	Former Plow Zone	None
32	V	72-82	Light Brown Clayey Silt with Sand	Sub-soil	None
33	I	0-5	Sod	Modern Surface	None
33	II	5-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
33	III	13-56	Orange Brown Clayey Silt	Fill	None
33	IV	56-71	Brown Sandy Silt	Former Plow Zone	None
33	V	71-81	Light Brown Clayey Silt with Sand	Sub-soil	None
34	I	0-6	Sod	Modern Surface	None
34	II	6-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
34	III	12-54	Orange Brown Clayey Silt	Fill	None
34	IV	54-74	Brown Sandy Silt	Former Plow Zone	None
34	V	74-82	Light Brown Clayey Silt with Sand	Sub-soil	None
35	I	0-7	Sod	Modern Surface	None
35	II	7-10	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
35	III	10-55	Orange Brown Clayey Silt	Fill	None
35	IV	55-73	Brown Sandy Silt	Former Plow Zone	None
35	V	73-81	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
36	I	0-5	Sod	Modern Surface	None
36	II	5-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
36	III	12-52	Orange Brown Clayey Silt	Fill	None
36	IV	52-72	Brown Sandy Silt	Former Plow Zone	None
36	V	72-82	Light Brown Clayey Silt with Sand	Sub-soil	None
37	I	0-5	Sod	Modern Surface	None
37	II	5-11	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
37	III	11-55	Orange Brown Clayey Silt	Fill	None
37	IV	55-71	Brown Sandy Silt	Former Plow Zone	None
37	V	71-85	Light Brown Clayey Silt with Sand	Sub-soil	None
38	I	0-6	Sod	Modern Surface	None
38	II	6-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
38	III	14-56	Orange Brown Clayey Silt	Fill	None
38	IV	56-73	Brown Sandy Silt	Former Plow Zone	None
38	V	73-81	Light Brown Clayey Silt with Sand	Sub-soil	None
39	I	0-6	Sod	Modern Surface	1 oxidized wire nail
39	II	6-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
39	III	13-53	Orange Brown Clayey Silt	Fill	None
39	IV	53-74	Brown Sandy Silt	Former Plow Zone	None
39	V	74-80	Light Brown Clayey Silt with Sand	Sub-soil	None
40	I	0-6	Sod	Modern Surface	None
40	II	6-10	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
40	III	10-52	Orange Brown Clayey Silt	Fill	None
40	IV	52-74	Brown Sandy Silt	Former Plow Zone	None
40	V	74-81	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
41	I	0-6	Sod	Modern Surface	None
41	II	6-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
41	III	14-56	Orange Brown Clayey Silt	Fill	None
41	IV	56-76	Brown Sandy Silt	Former Plow Zone	None
41	V	76-85	Light Brown Clayey Silt with Sand	Sub-soil	None
42	I	0-6	Sod	Modern Surface	None
42	II	6-11	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
42	III	11-52	Orange Brown Clayey Silt	Fill	None
42	IV	52-72	Brown Sandy Silt	Former Plow Zone	None
42	V	72-82	Light Brown Clayey Silt with Sand	Sub-soil	None
43	I	0-4	Sod	Modern Surface	None
43	II	4-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
43	III	14-56	Orange Brown Clayey Silt	Fill	None
43	IV	56-70	Brown Sandy Silt	Former Plow Zone	None
43	V	70-81	Light Brown Clayey Silt with Sand	Sub-soil	None
44	I	0-4	Sod	Modern Surface	None
44	II	4-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
44	III	14-51	Orange Brown Clayey Silt	Fill	None
44	IV	51-73	Brown Sandy Silt	Former Plow Zone	None
44	V	73-84	Light Brown Clayey Silt with Sand	Sub-soil	None
45	I	0-5	Sod	Modern Surface	None
45	II	5-10	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
45	III	10-55	Orange Brown Clayey Silt	Fill	None
45	IV	55-73	Brown Sandy Silt	Former Plow Zone	None
45	V	73-85	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
46	I	0-4	Sod	Modern Surface	None
46	II	4-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
46	III	14-56	Orange Brown Clayey Silt	Fill	None
46	IV	56-75	Brown Sandy Silt	Former Plow Zone	None
46	V	75-86	Light Brown Clayey Silt with Sand	Sub-soil	None
47	I	0-6	Sod	Modern Surface	None
47	II	6-11	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
47	III	11-56	Orange Brown Clayey Silt	Fill	None
47	IV	56-71	Brown Sandy Silt	Former Plow Zone	None
47	V	71-85	Light Brown Clayey Silt with Sand	Sub-soil	None
48	I	0-5	Sod	Modern Surface	None
48	II	5-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
48	III	13-56	Orange Brown Clayey Silt	Fill	None
48	IV	56-70	Brown Sandy Silt	Former Plow Zone	1 fragment amber tinted glass
48	V	70-81	Light Brown Clayey Silt with Sand	Sub-soil	None
49	I	0-7	Sod	Modern Surface	None
49	II	7-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
49	III	13-51	Orange Brown Clayey Silt	Fill	None
49	IV	51-74	Brown Sandy Silt	Former Plow Zone	None
49	V	74-80	Light Brown Clayey Silt with Sand	Sub-soil	None
50	I	0-6	Sod	Modern Surface	None
50	II	6-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
50	III	14-55	Orange Brown Clayey Silt	Fill	None
50	IV	55-73	Brown Sandy Silt	Former Plow Zone	None
50	V	73-85	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
51	I	0-4	Sod	Modern Surface	None
51	II	4-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
51	III	15-54	Orange Brown Clayey Silt	Fill	None
51	IV	54-73	Brown Sandy Silt	Former Plow Zone	None
51	V	73-85	Light Brown Clayey Silt with Sand	Sub-soil	None
52	I	0-7	Sod	Modern Surface	None
52	II	7-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
52	III	13-50	Orange Brown Clayey Silt	Fill	None
52	IV	50-73	Brown Sandy Silt	Former Plow Zone	None
52	V	71-83	Light Brown Clayey Silt with Sand	Sub-soil	None
53	I	0-5	Sod	Modern Surface	None
53	II	5-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
53	III	13-56	Orange Brown Clayey Silt	Fill	None
53	IV	56-72	Brown Sandy Silt	Former Plow Zone	None
53	V	72-81	Light Brown Clayey Silt with Sand	Sub-soil	None
54	I	0-4	Sod	Modern Surface	None
54	II	4-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
54	III	13-53	Orange Brown Clayey Silt	Fill	None
54	IV	53-73	Brown Sandy Silt	Former Plow Zone	None
54	V	73-80	Light Brown Clayey Silt with Sand	Sub-soil	None
55	I	0-6	Sod	Modern Surface	None
55	II	6-11	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
55	III	11-52	Orange Brown Clayey Silt	Fill	None
55	IV	52-73	Brown Sandy Silt	Former Plow Zone	None
55	V	73-84	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
56	I	0-4	Sod	Modern Surface	None
56	II	4-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
56	III	15-56	Orange Brown Clayey Silt	Fill	None
56	IV	56-75	Brown Sandy Silt	Former Plow Zone	None
56	V	75-85	Light Brown Clayey Silt with Sand	Sub-soil	None
57	I	0-5	Sod	Modern Surface	None
57	II	5-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
57	III	15-55	Orange Brown Clayey Silt	Fill	None
57	IV	50-74	Brown Sandy Silt	Former Plow Zone	None
57	V	74-82	Light Brown Clayey Silt with Sand	Sub-soil	None
58	I	0-4	Sod	Modern Surface	None
58	II	4-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
58	III	14-57	Orange Brown Clayey Silt	Fill	None
58	IV	57-71	Brown Sandy Silt	Former Plow Zone	None
58	V	71-81	Light Brown Clayey Silt with Sand	Sub-soil	None
59	I	0-6	Sod	Modern Surface	None
59	II	6-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
59	III	12-56	Orange Brown Clayey Silt	Fill	None
59	IV	56-76	Brown Sandy Silt	Former Plow Zone	None
59	V	76-80	Light Brown Clayey Silt with Sand	Sub-soil	None
60	I	0-6	Sod	Modern Surface	None
60	II	6-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
60	III	13-53	Orange Brown Clayey Silt	Fill	None
60	IV	53-73	Brown Sandy Silt	Former Plow Zone	None
60	V	73-84	Light Brown Clayey Silt with Sand	Sub-soil	None



**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
61	I	0-4	Sod	Modern Surface	None
61	II	4-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
61	III	15-55	Orange Brown Clayey Silt	Fill	None
61	IV	55-76	Brown Sandy Silt	Former Plow Zone	None
61	V	76-85	Light Brown Clayey Silt with Sand	Sub-soil	None
62	I	0-4	Sod	Modern Surface	None
62	II	4-11	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
62	III	11-53	Orange Brown Clayey Silt	Fill	None
62	IV	53-71	Brown Sandy Silt	Former Plow Zone	None
62	V	71-83	Light Brown Clayey Silt with Sand	Sub-soil	None
63	I	0-4	Sod	Modern Surface	None
63	II	4-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
63	III	12-51	Orange Brown Clayey Silt	Fill	None
63	IV	51-70	Brown Sandy Silt	Former Plow Zone	None
63	V	70-82	Light Brown Clayey Silt with Sand	Sub-soil	None
64	I	0-5	Sod	Modern Surface	None
64	II	5-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
64	III	13-54	Orange Brown Clayey Silt	Fill	None
64	IV	54-73	Brown Sandy Silt	Former Plow Zone	None
64	V	73-83	Light Brown Clayey Silt with Sand	Sub-soil	None
65	I	0-6	Sod	Modern Surface	None
65	II	6-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
65	III	12-52	Orange Brown Clayey Silt	Fill	None
65	IV	52-72	Brown Sandy Silt	Former Plow Zone	None
65	V	72-81	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
66	I	0-5	Sod	Modern Surface	None
66	II	5-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	1 oxidized wire nail
66	III	16-55	Orange Brown Clayey Silt	Fill	None
66	IV	55-74	Brown Sandy Silt	Former Plow Zone	None
66	V	74-85	Light Brown Clayey Silt with Sand	Sub-soil	None
67	I	0-6	Sod	Modern Surface	None
67	II	6-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
67	III	14-51	Orange Brown Clayey Silt	Fill	None
67	IV	51-73	Brown Sandy Silt	Former Plow Zone	None
67	V	73-83	Light Brown Clayey Silt with Sand	Sub-soil	None
67	I	0-6	Sod	Modern Surface	None
67	II	6-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
67	III	13-51	Orange Brown Clayey Silt	Fill	None
67	IV	51-72	Brown Sandy Silt	Former Plow Zone	None
67	V	72-82	Light Brown Clayey Silt with Sand	Sub-soil	None
67	I	0-6	Sod	Modern Surface	None
67	II	6-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
67	III	12-51	Orange Brown Clayey Silt	Fill	None
67	IV	51-73	Brown Sandy Silt	Former Plow Zone	1 fragment oxidized metal (wt.: 4.3 grams)
67	V	73-83	Light Brown Clayey Silt with Sand	Sub-soil	None
67	I	0-6	Sod	Modern Surface	None
67	II	6-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
67	III	15-51	Orange Brown Clayey Silt	Fill	None
67	IV	51-71	Brown Sandy Silt	Former Plow Zone	None
67	V	71-82	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

SHOVEL TEST	STRA.	DEPTH (cm.)	DESCRIPTION	CONTEXT	CULTURAL MATERIAL
68	I	0-4	Sod	Modern Surface	None
68	II	4-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
68	III	16-55	Orange Brown Clayey Silt	Fill	None
68	IV	55-74	Brown Sandy Silt	Former Plow Zone	None
68	V	74-83	Light Brown Clayey Silt with Sand	Sub-soil	None
69	I	0-4	Sod	Modern Surface	None
69	II	4-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
69	III	14-53	Orange Brown Clayey Silt	Fill	None
69	IV	53-74	Brown Sandy Silt	Former Plow Zone	None
69	V	74-83	Light Brown Clayey Silt with Sand	Sub-soil	None
70	I	0-4	Sod	Modern Surface	1 fragment clear plastic
70	II	4-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
70	III	12-54	Orange Brown Clayey Silt	Fill	None
70	IV	54-70	Brown Sandy Silt	Former Plow Zone	None
70	V	70-82	Light Brown Clayey Silt with Sand	Sub-soil	None
71	I	0-5	Sod	Modern Surface	None
71	II	5-17	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
71	III	17-54	Orange Brown Clayey Silt	Fill	None
71	IV	54-72	Brown Sandy Silt	Former Plow Zone	None
71	V	72-81	Light Brown Clayey Silt with Sand	Sub-soil	None
72	I	0-6	Sod	Modern Surface	None
72	II	6-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	2 fragments green tinted glass
72	III	12-52	Orange Brown Clayey Silt	Fill	None
72	IV	52-72	Brown Sandy Silt	Former Plow Zone	None
72	V	72-81	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
73	I	0-4	Sod	Modern Surface	None
73	II	4-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
73	III	12-52	Orange Brown Clayey Silt	Fill	None
73	IV	52-76	Brown Sandy Silt	Former Plow Zone	None
73	V	76-84	Light Brown Clayey Silt with Sand	Sub-soil	None
74	I	0-4	Sod	Modern Surface	None
74	II	4-11	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	2 fragments green tinted glass
74	III	11-54	Orange Brown Clayey Silt	Fill	None
74	IV	54-71	Brown Sandy Silt	Former Plow Zone	None
74	V	71-83	Light Brown Clayey Silt with Sand	Sub-soil	None
75	I	0-4	Sod	Modern Surface	None
75	II	4-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
75	III	14-51	Orange Brown Clayey Silt	Fill	None
75	IV	51-70	Brown Sandy Silt	Former Plow Zone	None
75	V	70-82	Light Brown Clayey Silt with Sand	Sub-soil	None
75	I	0-6	Sod	Modern Surface	None
75	II	6-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
75	III	13-54	Orange Brown Clayey Silt	Fill	None
75	IV	54-76	Brown Sandy Silt	Former Plow Zone	None
75	V	76-83	Light Brown Clayey Silt with Sand	Sub-soil	None
76	I	0-6	Sod	Modern Surface	None
76	II	6-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
76	III	16-51	Orange Brown Clayey Silt	Fill	None
76	IV	51-72	Brown Sandy Silt	Former Plow Zone	None
76	V	72-81	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
77	I	0-4	Sod	Modern Surface	None
77	II	4-11	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
77	III	11-55	Orange Brown Clayey Silt	Fill	None
77	IV	55-76	Brown Sandy Silt	Former Plow Zone	None
77	V	76-81	Light Brown Clayey Silt with Sand	Sub-soil	None
78	I	0-4	Sod	Modern Surface	None
78	II	4-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
78	III	15-53	Orange Brown Clayey Silt	Fill	None
78	IV	53-71	Brown Sandy Silt	Former Plow Zone	None
78	V	71-83	Light Brown Clayey Silt with Sand	Sub-soil	None
79	I	0-4	Sod	Modern Surface	1 fragment white plastic
79	II	4-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
79	III	12-51	Orange Brown Clayey Silt	Fill	None
79	IV	51-70	Brown Sandy Silt	Former Plow Zone	None
79	V	70-82	Light Brown Clayey Silt with Sand	Sub-soil	None
80	I	0-4	Sod	Modern Surface	None
80	II	4-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
80	III	13-54	Orange Brown Clayey Silt	Fill	None
80	IV	54-74	Brown Sandy Silt	Former Plow Zone	None
80	V	74-83	Light Brown Clayey Silt with Sand	Sub-soil	None
81	I	0-6	Sod	Modern Surface	None
81	II	6-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
81	III	14-52	Orange Brown Clayey Silt	Fill	None
81	IV	52-74	Brown Sandy Silt	Former Plow Zone	None
81	V	72-81	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
82	I	0-4	Sod	Modern Surface	None
82	II	4-10	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	1 fragment rubber hose
82	III	10-60	Brown Sandy Silt	Former Plow Zone	None
82	IV	60-76	Light Brown Clayey Silt with Sand	Sub-soil	None
83	I	0-4	Sod	Modern Surface	None
83	II	4-10	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
83	III	10-61	Brown Sandy Silt	Former Plow Zone	None
83	IV	61-77	Light Brown Clayey Silt with Sand	Sub-soil	None
84	I	0-4	Sod	Modern Surface	None
84	II	4-10	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
84	III	50-63	Brown Sandy Silt	Former Plow Zone	None
84	V	63-80	Light Brown Clayey Silt with Sand	Sub-soil	None
85	I	0-4	Sod	Modern Surface	None
85	II	4-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
85	IV	13-65	Brown Sandy Silt	Former Plow Zone	None
85	V	65-81	Light Brown Clayey Silt with Sand	Sub-soil	None
86	I	0-5	Sod	Modern Surface	None
86	II	5-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
86	III	14-57	Orange Brown Clayey Silt	Fill	None
86	IV	57-71	Brown Sandy Silt	Former Plow Zone	None
86	V	71-82	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
87	I	0-4	Sod	Modern Surface	None
87	II	4-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
87	III	12-56	Orange Brown Clayey Silt	Fill	None
87	IV	56-72	Brown Sandy Silt	Former Plow Zone	1 fragment amber tinted glass
87	V	72-76	Light Brown Clayey Silt with Sand	Sub-soil	None
88	I	0-7	Sod	Modern Surface	None
88	II	7-11	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
88	III	11-63	Brown Sandy Silt	Former Plow Zone	None
88	IV	63-78	Light Brown Clayey Silt with Sand	Sub-soil	None
89	I	0-6	Sod	Modern Surface	None
89	II	6-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
89	III	15-64	Brown Sandy Silt	Former Plow Zone	None
89	V	64-82	Light Brown Clayey Silt with Sand	Sub-soil	None
90	I	0-4	Sod	Modern Surface	None
90	II	4-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
90	III	15-65	Brown Sandy Silt	Former Plow Zone	None
90	IV	65-84	Light Brown Clayey Silt with Sand	Sub-soil	None
91	I	0-6	Sod	Modern Surface	None
91	II	6-11	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	2 fragments oxidized metal hinge
91	III	11-62	Brown Sandy Silt	Former Plow Zone	None
91	IV	62-80	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
92	I	0-5	Sod	Modern Surface	None
92	II	5-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
92	III	15-61	Brown Sandy Silt	Former Plow Zone	None
92	IV	61-78	Light Brown Clayey Silt with Sand	Sub-soil	None
93	I	0-6	Sod	Modern Surface	None
93	II	6-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
93	III	12-63	Brown Sandy Silt	Former Plow Zone	None
93	IV	63-76	Light Brown Clayey Silt with Sand	Sub-soil	None
94	I	0-6	Sod	Modern Surface	None
94	II	6-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	3 fragments clear bottle glass
94	III	16-65	Brown Sandy Silt	Former Plow Zone	None
94	IV	65-81	Light Brown Clayey Silt with Sand	Sub-soil	None
95	I	0-4	Sod	Modern Surface	None
95	II	4-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
95	III	13-63	Brown Sandy Silt	Former Plow Zone	None
95	IV	63-82	Light Brown Clayey Silt with Sand	Sub-soil	None
96	I	0-5	Sod	Modern Surface	None
96	II	5-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
96	III	12-66	Brown Sandy Silt	Former Plow Zone	None
96	IV	66-81	Light Brown Clayey Silt with Sand	Sub-soil	None



**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
97	I	0-6	Sod	Modern Surface	None
97	II	6-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	1 fragment white plastic – cigarette filter
97	III	16-72	Brown Sandy Silt	Former Plow Zone	None
97	IV	72-74	Light Brown Clayey Silt with Sand	Sub-soil	None
98	I	0-6	Sod	Modern Surface	None
98	II	6-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
98	III	13-63	Brown Sandy Silt	Former Plow Zone	None
98	IV	63-72	Light Brown Clayey Silt with Sand	Sub-soil	None
99	I	0-5	Sod	Modern Surface	None
99	II	5-17	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
99	III	17-63	Brown Sandy Silt	Former Plow Zone	None
99	IV	63-80	Light Brown Clayey Silt with Sand	Sub-soil	None
100	I	0-4	Sod	Modern Surface	None
100	II	4-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
100	III	13-61	Brown Sandy Silt	Former Plow Zone	None
100	IV	61-77	Light Brown Clayey Silt with Sand	Sub-soil	None
101	I	0-5	Sod	Modern Surface	None
101	II	5-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	2 fragments red brick (wt.: 12.2 grams)
101	III	12-61	Brown Sandy Silt	Former Plow Zone	None
101	IV	61-81	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
102	I	0-5	Sod	Modern Surface	None
102	II	5-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
102	III	12-62	Brown Sandy Silt	Former Plow Zone	None
102	IV	62-74	Light Brown Clayey Silt with Sand	Sub-soil	None
103	I	0-5	Sod	Modern Surface	None
103	II	5-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
103	III	13-65	Brown Sandy Silt	Former Plow Zone	None
103	IV	65-72	Light Brown Clayey Silt with Sand	Sub-soil	None
104	I	0-4	Sod	Modern Surface	None
104	II	4-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
104	III	16-62	Brown Sandy Silt	Former Plow Zone	None
104	IV	62-82	Light Brown Clayey Silt with Sand	Sub-soil	None
105	I	0-4	Sod	Modern Surface	None
105	II	4-11	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
105	III	11-62	Brown Sandy Silt	Former Plow Zone	None
105	IV	62-73	Light Brown Clayey Silt with Sand	Sub-soil	None
106	I	0-6	Sod	Modern Surface	None
106	II	6-11	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	1 fragment concrete (wt.: 3.4 grams)
106	III	11-62	Brown Sandy Silt	Former Plow Zone	None
106	IV	62-77	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
107	I	0-4	Sod	Modern Surface	None
107	II	4-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
107	III	13-61	Brown Sandy Silt	Former Plow Zone	None
107	IV	61-71	Light Brown Clayey Silt with Sand	Sub-soil	None
108	I	0-6	Sod	Modern Surface	None
108	II	6-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
108	III	12-61	Brown Sandy Silt	Former Plow Zone	None
108	IV	61-72	Light Brown Clayey Silt with Sand	Sub-soil	None
109	I	0-4	Sod	Modern Surface	1 fragment green and blue glass
109	II	4-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
109	III	15-63	Brown Sandy Silt	Former Plow Zone	None
109	IV	63-82	Light Brown Clayey Silt with Sand	Sub-soil	None
110	I	0-4	Sod	Modern Surface	None
110	II	4-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
110	III	12-60	Brown Sandy Silt	Former Plow Zone	None
110	IV	60-72	Light Brown Clayey Silt with Sand	Sub-soil	None
111	I	0-4	Sod	Modern Surface	2 fragments wire nails
111	II	4-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
110	III	12-61	Brown Sandy Silt	Former Plow Zone	None
110	IV	61-77	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
111	I	0-6	Sod	Modern Surface	None
111	II	6-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
111	III	14-60	Brown Sandy Silt	Former Plow Zone	None
111	IV	60-70	Light Brown Clayey Silt with Sand	Sub-soil	None
112	I	0-5	Sod	Modern Surface	None
112	II	5-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
112	III	12-61	Brown Sandy Silt	Former Plow Zone	None
112	IV	61-73	Light Brown Clayey Silt with Sand	Sub-soil	None
113	I	0-3	Sod	Modern Surface	None
113	II	3-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
114	III	15-60	Brown Sandy Silt	Former Plow Zone	1 oxidized metal bolt
114	IV	60-81	Light Brown Clayey Silt with Sand	Sub-soil	None
115	I	0-4	Sod	Modern Surface	None
115	II	4-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
115	III	14-59	Brown Sandy Silt	Former Plow Zone	None
115	IV	59-71	Light Brown Clayey Silt with Sand	Sub-soil	None
116	I	0-4	Sod	Modern Surface	None
116	II	4-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
116	III	12-61	Brown Sandy Silt	Former Plow Zone	None
116	IV	61-77	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
117	I	0-7	Sod	Modern Surface	None
117	II	7-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
117	III	14-61	Brown Sandy Silt	Former Plow Zone	3 fragments green tinted glass
117	IV	61-70	Light Brown Clayey Silt with Sand	Sub-soil	None
118	I	0-7	Sod	Modern Surface	None
118	II	7-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
118	III	12-60	Brown Sandy Silt	Former Plow Zone	None
118	IV	61-75	Light Brown Clayey Silt with Sand	Sub-soil	None
119	I	0-8	Sod	Modern Surface	None
119	II	8-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
119	III	12-61	Brown Sandy Silt	Former Plow Zone	None
119	IV	61-80	Light Brown Clayey Silt with Sand	Sub-soil	None
120	I	0-8	Sod	Modern Surface	None
120	II	8-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
120	III	13-59	Brown Sandy Silt	Former Plow Zone	None
120	IV	59-74	Light Brown Clayey Silt with Sand	Sub-soil	None
121	I	0-4	Sod	Modern Surface	None
121	II	4-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
121	III	15-61	Brown Sandy Silt	Former Plow Zone	None
121	IV	61-79	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
122	I	0-4	Sod	Modern Surface	None
122	II	4-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
122	III	14-65	Brown Sandy Silt	Former Plow Zone	None
122	IV	65-70	Light Brown Clayey Silt with Sand	Sub-soil	None
123	I	0-5	Sod	Modern Surface	None
123	II	5-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
123	III	12-64	Brown Sandy Silt	Former Plow Zone	None
123	IV	64-73	Light Brown Clayey Silt with Sand	Sub-soil	None
124	I	0-4	Sod	Modern Surface	None
124	II	4-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
124	III	15-61	Brown Sandy Silt	Former Plow Zone	None
124	IV	61-81	Light Brown Clayey Silt with Sand	Sub-soil	None
125	I	0-4	Sod	Modern Surface	None
125	II	4-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
125	III	14-59	Brown Sandy Silt	Former Plow Zone	None
125	IV	59-71	Light Brown Clayey Silt with Sand	Sub-soil	None
126	I	0-4	Sod	Modern Surface	None
126	II	4-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
126	III	12-62	Brown Sandy Silt	Former Plow Zone	None
126	IV	62-75	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
127	I	0-4	Sod	Modern Surface	None
127	II	4-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
127	III	14-67	Brown Sandy Silt	Former Plow Zone	None
127	IV	67-70	Light Brown Clayey Silt with Sand	Sub-soil	None
128	I	0-7	Sod	Modern Surface	None
128	II	7-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
128	III	12-67	Brown Sandy Silt	Former Plow Zone	None
129	IV	67-72	Light Brown Clayey Silt with Sand	Sub-soil	None
130	I	0-3	Sod	Modern Surface	None
130	II	3-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
130	III	16-60	Brown Sandy Silt	Former Plow Zone	None
130	IV	60-83	Light Brown Clayey Silt with Sand	Sub-soil	None
131	I	0-3	Sod	Modern Surface	1 fragment rubber
132	II	3-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
133	III	14-58	Brown Sandy Silt	Former Plow Zone	None
134	IV	58-71	Light Brown Clayey Silt with Sand	Sub-soil	None
135	I	0-4	Sod	Modern Surface	None
135	II	4-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
135	III	12-61	Brown Sandy Silt	Former Plow Zone	None
135	IV	61-71	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
136	I	0-6	Sod	Modern Surface	None
136	II	6-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
136	III	15-61	Brown Sandy Silt	Former Plow Zone	None
136	IV	61-71	Light Brown Clayey Silt with Sand	Sub-soil	None
137	I	0-4	Sod	Modern Surface	None
137	II	4-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
137	III	13-62	Brown Sandy Silt	Former Plow Zone	None
137	IV	62-71	Light Brown Clayey Silt with Sand	Sub-soil	None
138	I	0-5	Sod	Modern Surface	None
138	II	5-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
138	III	16-62	Brown Sandy Silt	Former Plow Zone	None
138	IV	62-83	Light Brown Clayey Silt with Sand	Sub-soil	None
139	I	0-4	Sod	Modern Surface	None
139	II	4-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
139	III	14-58	Brown Sandy Silt	Former Plow Zone	None
140	IV	58-71	Light Brown Clayey Silt with Sand	Sub-soil	None
141	I	0-4	Sod	Modern Surface	None
141	II	4-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
141	III	13-61	Brown Sandy Silt	Former Plow Zone	None
141	IV	61-78	Light Brown Clayey Silt with Sand	Sub-soil	None



**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
142	I	0-5	Sod	Modern Surface	None
142	II	5-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
142	III	12-61	Brown Sandy Silt	Former Plow Zone	None
142	IV	61-70	Light Brown Clayey Silt with Sand	Sub-soil	None
143	I	0-5	Sod	Modern Surface	None
143	II	5-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
143	III	14-60	Brown Sandy Silt	Former Plow Zone	None
143	IV	60-73	Light Brown Clayey Silt with Sand	Sub-soil	None
144	I	0-4	Sod	Modern Surface	None
144	II	4-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
145	III	15-61	Brown Sandy Silt	Former Plow Zone	None
146	IV	61-81	Light Brown Clayey Silt with Sand	Sub-soil	None
147	I	0-5	Sod	Modern Surface	None
147	II	5-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	1 fragment unglazed redware
147	III	14-58	Brown Sandy Silt	Former Plow Zone	None
147	IV	58-71	Light Brown Clayey Silt with Sand	Sub-soil	None
148	I	0-4	Sod	Modern Surface	None
148	II	4-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
148	III	13-61	Brown Sandy Silt	Former Plow Zone	None
148	IV	61-78	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
149	I	0-5	Sod	Modern Surface	None
149	II	5-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
149	III	13-61	Brown Sandy Silt	Former Plow Zone	None
149	IV	61-71	Light Brown Clayey Silt with Sand	Sub-soil	None
150	I	0-5	Sod	Modern Surface	None
150	II	5-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
150	III	12-61	Brown Sandy Silt	Former Plow Zone	None
150	IV	61-71	Light Brown Clayey Silt with Sand	Sub-soil	None
151	I	0-4	Sod	Modern Surface	None
151	II	4-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
151	III	15-61	Brown Sandy Silt	Former Plow Zone	None
151	IV	61-80	Light Brown Clayey Silt with Sand	Sub-soil	None
152	I	0-4	Sod	Modern Surface	None
152	II	4-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
152	III	13-58	Brown Sandy Silt	Former Plow Zone	None
152	IV	59-78	Light Brown Clayey Silt with Sand	Sub-soil	None
153	I	0-4	Sod	Modern Surface	None
153	II	4-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
153	III	15-61	Brown Sandy Silt	Former Plow Zone	None
153	IV	61-78	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
154	I	0-5	Sod	Modern Surface	None
154	II	5-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
154	III	14-61	Brown Sandy Silt	Former Plow Zone	None
154	IV	61-72	Light Brown Clayey Silt with Sand	Sub-soil	None
155	I	0-4	Sod	Modern Surface	None
155	II	4-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
155	III	12-62	Brown Sandy Silt	Former Plow Zone	None
155	IV	61-72	Light Brown Clayey Silt with Sand	Sub-soil	None
156	I	0-3	Sod	Modern Surface	None
156	II	3-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
156	III	15-61	Brown Sandy Silt	Former Plow Zone	None
156	IV	61-81	Light Brown Clayey Silt with Sand	Sub-soil	None
157	I	0-4	Sod	Modern Surface	None
157	II	4-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
157	III	16-60	Brown Sandy Silt	Former Plow Zone	None
157	IV	60-71	Light Brown Clayey Silt with Sand	Sub-soil	None
158	I	0-4	Sod	Modern Surface	None
158	II	4-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
158	III	12-62	Brown Sandy Silt	Former Plow Zone	None
158	IV	62-77	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
159	I	0-6	Sod	Modern Surface	None
159	II	6-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
159	III	14-60	Brown Sandy Silt	Former Plow Zone	None
159	IV	60-71	Light Brown Clayey Silt with Sand	Sub-soil	None
160	I	0-5	Sod	Modern Surface	None
160	II	5-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	1 fragment clear glass
160	III	12-62	Brown Sandy Silt	Former Plow Zone	None
160	IV	61-72	Light Brown Clayey Silt with Sand	Sub-soil	None
161	I	0-4	Sod	Modern Surface	None
161	II	4-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
161	III	15-63	Brown Sandy Silt	Former Plow Zone	None
161	IV	63-80	Light Brown Clayey Silt with Sand	Sub-soil	None
162	I	0-3	Sod	Modern Surface	None
162	II	3-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
162	III	14-62	Brown Sandy Silt	Former Plow Zone	None
162	IV	62-71	Light Brown Clayey Silt with Sand	Sub-soil	None
163	I	0-4	Sod	Modern Surface	None
163	II	4-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
163	III	13-60	Brown Sandy Silt	Former Plow Zone	None
163	IV	61-79	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
164	I	0-4	Sod	Modern Surface	None
164	II	4-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
164	III	14-64	Brown Sandy Silt	Former Plow Zone	None
164	IV	64-70	Light Brown Clayey Silt with Sand	Sub-soil	None
165	I	0-4	Sod	Modern Surface	None
165	II	4-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	2 fragments green plastic
165	III	14-61	Brown Sandy Silt	Former Plow Zone	None
165	IV	61-74	Light Brown Clayey Silt with Sand	Sub-soil	None
166	I	0-3	Sod	Modern Surface	None
166	II	3-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
166	III	14-60	Brown Sandy Silt	Former Plow Zone	None
166	IV	60-83	Light Brown Clayey Silt with Sand	Sub-soil	None
167	I	0-3	Sod	Modern Surface	None
167	II	3-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
167	III	14-58	Brown Sandy Silt	Former Plow Zone	None
167	IV	58-71	Light Brown Clayey Silt with Sand	Sub-soil	None
168	I	0-3	Sod	Modern Surface	None
168	II	3-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
168	III	12-61	Brown Sandy Silt	Former Plow Zone	None
168	IV	61-77	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
169	I	0-6	Sod	Modern Surface	None
169	II	6-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
169	III	14-60	Brown Sandy Silt	Former Plow Zone	None
169	IV	60-71	Light Brown Clayey Silt with Sand	Sub-soil	None
170	I	0-5	Sod	Modern Surface	None
170	II	5-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
170	III	12-63	Brown Sandy Silt	Former Plow Zone	None
170	IV	63-73	Light Brown Clayey Silt with Sand	Sub-soil	None
171	I	0-5	Sod	Modern Surface	None
171	II	5-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
171	III	16-61	Brown Sandy Silt	Former Plow Zone	None
171	IV	61-80	Light Brown Clayey Silt with Sand	Sub-soil	None
172	I	0-4	Sod	Modern Surface	None
172	II	4-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
173	III	13-61	Brown Sandy Silt	Former Plow Zone	None
174	IV	61-71	Light Brown Clayey Silt with Sand	Sub-soil	None
175	I	0-4	Sod	Modern Surface	None
175	II	4-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
175	III	13-61	Brown Sandy Silt	Former Plow Zone	None
175	IV	61-77	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
176	I	0-3	Sod	Modern Surface	None
176	II	3-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
176	III	13-60	Brown Sandy Silt	Former Plow Zone	None
176	IV	60-73	Light Brown Clayey Silt with Sand	Sub-soil	None
177	I	0-5	Sod	Modern Surface	None
177	II	5-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
177	III	12-61	Brown Sandy Silt	Former Plow Zone	1 fragment slag (wt.: 4.3 grams)
177	IV	61-73	Light Brown Clayey Silt with Sand	Sub-soil	None
178	I	0-4	Sod	Modern Surface	None
178	II	4-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
178	III	14-63	Brown Sandy Silt	Former Plow Zone	None
178	IV	63-81	Light Brown Clayey Silt with Sand	Sub-soil	None
179	I	0-5	Sod	Modern Surface	None
179	II	5-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
179	III	14-58	Brown Sandy Silt	Former Plow Zone	None
179	IV	58-71	Light Brown Clayey Silt with Sand	Sub-soil	None
180	I	0-6	Sod	Modern Surface	None
180	II	6-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
180	III	12-61	Brown Sandy Silt	Former Plow Zone	None
180	IV	61-76	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
181	I	0-7	Sod	Modern Surface	None
181	II	7-17	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
181	III	17-67	Brown Sandy Silt	Former Plow Zone	None
181	IV	67-70	Light Brown Clayey Silt with Sand	Sub-soil	None
182	I	0-7	Sod	Modern Surface	None
182	II	7-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
182	III	14-61	Brown Sandy Silt	Former Plow Zone	1 gray black chert flake (wt.: 4.5 grams)
182	IV	61-77	Light Brown Clayey Silt with Sand	Sub-soil	None
183	I	0-3	Sod	Modern Surface	None
183	II	3-17	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
184	III	17-60	Brown Sandy Silt	Former Plow Zone	None
184	IV	60-82	Light Brown Clayey Silt with Sand	Sub-soil	None
185	I	0-4	Sod	Modern Surface	None
185	II	4-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
185	III	15-66	Brown Sandy Silt	Former Plow Zone	None
185	IV	66-71	Light Brown Clayey Silt with Sand	Sub-soil	None
186	I	0-4	Sod	Modern Surface	None
186	II	4-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
186	III	16-61	Brown Sandy Silt	Former Plow Zone	None
186	IV	61-76	Light Brown Clayey Silt with Sand	Sub-soil	None



**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
187	I	0-6	Sod	Modern Surface	None
187	II	6-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
187	III	13-62	Brown Sandy Silt	Former Plow Zone	None
187	IV	62-70	Light Brown Clayey Silt with Sand	Sub-soil	None
188	I	0-3	Sod	Modern Surface	None
188	II	3-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
188	III	12-63	Brown Sandy Silt	Former Plow Zone	None
188	IV	61-74	Light Brown Clayey Silt with Sand	Sub-soil	None
189	I	0-4	Sod	Modern Surface	None
189	II	4-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
189	III	15-64	Brown Sandy Silt	Former Plow Zone	None
189	IV	64-81	Light Brown Clayey Silt with Sand	Sub-soil	None
190	I	0-4	Sod	Modern Surface	None
190	II	4-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
190	III	14-59	Brown Sandy Silt	Former Plow Zone	None
190	IV	59-74	Light Brown Clayey Silt with Sand	Sub-soil	None
191	I	0-4	Sod	Modern Surface	None
191	II	4-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
191	III	15-65	Brown Sandy Silt	Former Plow Zone	None
191	IV	65-75	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
192	I	0-6	Sod	Modern Surface	None
192	II	6-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
192	III	12-60	Brown Sandy Silt	Former Plow Zone	None
192	IV	60-72	Light Brown Clayey Silt with Sand	Sub-soil	None
193	I	0-5	Sod	Modern Surface	None
193	II	5-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
193	III	13-61	Brown Sandy Silt	Former Plow Zone	None
193	IV	61-73	Light Brown Clayey Silt with Sand	Sub-soil	None
194	I	0-4	Sod	Modern Surface	None
194	II	4-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
194	III	14-60	Brown Sandy Silt	Former Plow Zone	None
194	IV	60-84	Light Brown Clayey Silt with Sand	Sub-soil	None
195	I	0-4	Sod	Modern Surface	None
195	II	4-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
195	III	15-59	Brown Sandy Silt	Former Plow Zone	None
195	IV	59-71	Light Brown Clayey Silt with Sand	Sub-soil	None
196	I	0-4	Sod	Modern Surface	None
196	II	4-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
196	III	15-61	Brown Sandy Silt	Former Plow Zone	None
196	IV	61-75	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
197	I	0-4	Sod	Modern Surface	None
197	II	4-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
197	III	15-64	Brown Sandy Silt	Former Plow Zone	None
197	IV	64-70	Light Brown Clayey Silt with Sand	Sub-soil	None
198	I	0-5	Sod	Modern Surface	2 fragments oxidized metal (wt.: 2.3 grams)
198	II	5-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
198	III	12-64	Brown Sandy Silt	Former Plow Zone	None
198	IV	64-73	Light Brown Clayey Silt with Sand	Sub-soil	None
199	I	0-3	Sod	Modern Surface	None
199	II	3-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
199	III	14-64	Brown Sandy Silt	Former Plow Zone	None
199	IV	64-84	Light Brown Clayey Silt with Sand	Sub-soil	None
200	I	0-4	Sod	Modern Surface	None
200	II	4-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
200	III	14-62	Brown Sandy Silt	Former Plow Zone	None
200	IV	62-71	Light Brown Clayey Silt with Sand	Sub-soil	None
201	I	0-4	Sod	Modern Surface	None
201	II	4-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
201	III	13-61	Brown Sandy Silt	Former Plow Zone	None
201	IV	61-73	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
202	I	0-4	Sod	Modern Surface	None
202	II	4-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
202	III	15-61	Brown Sandy Silt	Former Plow Zone	None
202	IV	61-70	Light Brown Clayey Silt with Sand	Sub-soil	None
203	I	0-5	Sod	Modern Surface	2 fragments black plastic
203	II	5-11	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
203	III	11-62	Brown Sandy Silt	Former Plow Zone	None
203	IV	62-72	Light Brown Clayey Silt with Sand	Sub-soil	None
204	I	0-3	Sod	Modern Surface	None
204	II	3-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
204	III	13-63	Brown Sandy Silt	Former Plow Zone	None
204	IV	63-81	Light Brown Clayey Silt with Sand	Sub-soil	None
205	I	0-5	Sod	Modern Surface	None
205	II	5-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
205	III	15-60	Brown Sandy Silt	Former Plow Zone	None
205	IV	60-70	Light Brown Clayey Silt with Sand	Sub-soil	None
206	I	0-5	Sod	Modern Surface	None
206	II	5-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
206	III	16-63	Brown Sandy Silt	Former Plow Zone	1 fragment unglazed redware
206	IV	63-76	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
207	I	0-4	Sod	Modern Surface	None
207	II	4-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
207	III	16-66	Brown Sandy Silt	Former Plow Zone	None
207	IV	66-70	Light Brown Clayey Silt with Sand	Sub-soil	None
208	I	0-5	Sod	Modern Surface	None
208	II	5-11	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
208	III	11-66	Brown Sandy Silt	Former Plow Zone	None
208	IV	66-72	Light Brown Clayey Silt with Sand	Sub-soil	None
209	I	0-6	Sod	Modern Surface	None
209	II	6-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
209	III	13-63	Brown Sandy Silt	Former Plow Zone	None
209	IV	63-86	Light Brown Clayey Silt with Sand	Sub-soil	None
210	I	0-5	Sod	Modern Surface	3 fragments misc. metal (wt.: 6.8 grams)
210	II	5-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
210	III	15-60	Brown Sandy Silt	Former Plow Zone	None
210	IV	60-70	Light Brown Clayey Silt with Sand	Sub-soil	None
211	I	0-6	Sod	Modern Surface	None
211	II	6-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
211	III	16-66	Brown Sandy Silt	Former Plow Zone	None
211	IV	63-76	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
212	I	0-4	Sod	Modern Surface	None
212	II	4-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
212	III	15-65	Brown Sandy Silt	Former Plow Zone	None
212	IV	65-70	Light Brown Clayey Silt with Sand	Sub-soil	None
213	I	0-5	Sod	Modern Surface	None
213	II	5-11	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
213	III	11-62	Brown Sandy Silt	Former Plow Zone	None
213	IV	62-72	Light Brown Clayey Silt with Sand	Sub-soil	None
214	I	0-4	Sod	Modern Surface	None
214	II	4-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
214	III	13-63	Brown Sandy Silt	Former Plow Zone	None
214	IV	63-81	Light Brown Clayey Silt with Sand	Sub-soil	None
215	I	0-4	Sod	Modern Surface	None
215	II	4-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	1 spark plug fragment
215	III	15-64	Brown Sandy Silt	Former Plow Zone	None
215	IV	64-70	Light Brown Clayey Silt with Sand	Sub-soil	None
216	I	0-5	Sod	Modern Surface	None
216	II	5-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
216	III	14-63	Brown Sandy Silt	Former Plow Zone	None
216	IV	63-76	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
217	I	0-5	Sod	Modern Surface	None
217	II	5-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
217	III	15-65	Brown Sandy Silt	Former Plow Zone	None
217	IV	65-70	Light Brown Clayey Silt with Sand	Sub-soil	None
218	I	0-5	Sod	Modern Surface	None
218	II	5-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
218	III	15-62	Brown Sandy Silt	Former Plow Zone	None
218	IV	62-72	Light Brown Clayey Silt with Sand	Sub-soil	None
219	I	0-5	Sod	Modern Surface	None
219	II	5-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
219	III	13-63	Brown Sandy Silt	Former Plow Zone	None
219	IV	63-85	Light Brown Clayey Silt with Sand	Sub-soil	None
220	I	0-5	Sod	Modern Surface	None
220	II	5-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
220	III	15-65	Brown Sandy Silt	Former Plow Zone	None
220	IV	60-75	Light Brown Clayey Silt with Sand	Sub-soil	None
221	I	0-5	Sod	Modern Surface	None
221	II	5-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
221	III	16-65	Brown Sandy Silt	Former Plow Zone	None
221	IV	63-75	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
222	I	0-5	Sod	Modern Surface	None
222	II	5-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
222	III	16-66	Brown Sandy Silt	Former Plow Zone	None
222	IV	61-76	Light Brown Clayey Silt with Sand	Sub-soil	None
223	I	0-5	Sod	Modern Surface	1 wire nail
223	II	5-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
223	III	13-62	Brown Sandy Silt	Former Plow Zone	None
223	IV	62-73	Light Brown Clayey Silt with Sand	Sub-soil	None
224	I	0-3	Sod	Modern Surface	None
224	II	3-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
224	III	16-63	Brown Sandy Silt	Former Plow Zone	None
224	IV	63-81	Light Brown Clayey Silt with Sand	Sub-soil	None
225	I	0-5	Sod	Modern Surface	None
225	II	5-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
225	III	13-60	Brown Sandy Silt	Former Plow Zone	None
225	IV	60-70	Light Brown Clayey Silt with Sand	Sub-soil	None
226	I	0-3	Sod	Modern Surface	None
226	II	3-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
226	III	16-63	Brown Sandy Silt	Former Plow Zone	None
226	IV	63-76	Light Brown Clayey Silt with Sand	Sub-soil	None



**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
227	I	0-5	Sod	Modern Surface	None
227	II	5-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
227	III	16-61	Brown Sandy Silt	Former Plow Zone	None
227	IV	61-76	Light Brown Clayey Silt with Sand	Sub-soil	None
228	I	0-5	Sod	Modern Surface	None
228	II	5-11	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
228	III	11-66	Brown Sandy Silt	Former Plow Zone	None
228	IV	66-72	Light Brown Clayey Silt with Sand	Sub-soil	None
229	I	0-3	Sod	Modern Surface	None
229	II	3-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
229	III	15-63	Brown Sandy Silt	Former Plow Zone	None
230	IV	63-85	Light Brown Clayey Silt with Sand	Sub-soil	None
231	I	0-5	Sod	Modern Surface	None
231	II	5-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
231	III	15-61	Brown Sandy Silt	Former Plow Zone	None
231	IV	61-70	Light Brown Clayey Silt with Sand	Sub-soil	None
232	I	0-5	Sod	Modern Surface	None
232	II	5-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
232	III	13-63	Brown Sandy Silt	Former Plow Zone	None
232	IV	63-76	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
233	I	0-6	Sod	Modern Surface	None
233	II	6-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
233	III	14-64	Brown Sandy Silt	Former Plow Zone	None
233	IV	64-72	Light Brown Clayey Silt with Sand	Sub-soil	None
234	I	0-5	Sod	Modern Surface	None
234	II	5-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
234	III	12-61	Brown Sandy Silt	Former Plow Zone	None
234	IV	61-72	Light Brown Clayey Silt with Sand	Sub-soil	None
235	I	0-3	Sod	Modern Surface	None
235	II	3-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
235	III	15-64	Brown Sandy Silt	Former Plow Zone	None
235	IV	64-80	Light Brown Clayey Silt with Sand	Sub-soil	None
236	I	0-5	Sod	Modern Surface	None
236	II	5-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
236	III	14-60	Brown Sandy Silt	Former Plow Zone	None
236	IV	60-74	Light Brown Clayey Silt with Sand	Sub-soil	None
237	I	0-4	Sod	Modern Surface	None
237	II	4-17	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
237	III	17-64	Brown Sandy Silt	Former Plow Zone	None
237	IV	64-74	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
238	I	0-5	Sod	Modern Surface	None
238	II	5-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
238	III	14-64	Brown Sandy Silt	Former Plow Zone	None
238	IV	61-74	Light Brown Clayey Silt with Sand	Sub-soil	None
239	I	0-5	Sod	Modern Surface	None
239	II	5-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
239	III	14-62	Brown Sandy Silt	Former Plow Zone	None
239	IV	62-74	Light Brown Clayey Silt with Sand	Sub-soil	None
240	I	0-3	Sod	Modern Surface	None
240	II	3-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
240	III	13-64	Brown Sandy Silt	Former Plow Zone	None
240	IV	64-81	Light Brown Clayey Silt with Sand	Sub-soil	None
241	I	0-5	Sod	Modern Surface	None
241	II	5-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
242	III	15-60	Brown Sandy Silt	Former Plow Zone	None
242	IV	60-70	Light Brown Clayey Silt with Sand	Sub-soil	None
243	I	0-4	Sod	Modern Surface	None
243	II	4-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
243	III	16-63	Brown Sandy Silt	Former Plow Zone	None
243	IV	63-76	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
244	I	0-3	Sod	Modern Surface	None
244	II	3-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
244	III	14-63	Brown Sandy Silt	Former Plow Zone	None
244	IV	63-70	Light Brown Clayey Silt with Sand	Sub-soil	None
245	I	0-5	Sod	Modern Surface	None
245	II	5-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
245	III	13-62	Brown Sandy Silt	Former Plow Zone	None
245	IV	62-73	Light Brown Clayey Silt with Sand	Sub-soil	None
246	I	0-3	Sod	Modern Surface	None
246	II	3-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
247	III	14-63	Brown Sandy Silt	Former Plow Zone	None
247	IV	63-84	Light Brown Clayey Silt with Sand	Sub-soil	None
248	I	0-5	Sod	Modern Surface	None
248	II	5-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
248	III	15-65	Brown Sandy Silt	Former Plow Zone	None
248	IV	65-70	Light Brown Clayey Silt with Sand	Sub-soil	None
249	I	0-5	Sod	Modern Surface	None
249	II	5-17	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	1 fragment painted wood
249	III	17-63	Brown Sandy Silt	Former Plow Zone	None
249	IV	63-77	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
250	I	0-5	Sod	Modern Surface	None
250	II	5-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
250	III	16-65	Brown Sandy Silt	Former Plow Zone	None
250	IV	65-75	Light Brown Clayey Silt with Sand	Sub-soil	None
251	I	0-5	Sod	Modern Surface	3 fragments red brick (wt.: 5.6 grams)
251	II	5-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
251	III	15-65	Brown Sandy Silt	Former Plow Zone	None
251	IV	65-72	Light Brown Clayey Silt with Sand	Sub-soil	None
252	I	0-5	Sod	Modern Surface	1 fragment red brick (wt.: 2.3 grams)
252	II	5-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
252	III	16-66	Brown Sandy Silt	Former Plow Zone	None
252	IV	66-86	Light Brown Clayey Silt with Sand	Sub-soil	None
253	I	0-5	Sod	Modern Surface	None
253	II	5-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
253	III	15-65	Brown Sandy Silt	Former Plow Zone	None
253	IV	65-70	Light Brown Clayey Silt with Sand	Sub-soil	None
254	I	0-4	Sod	Modern Surface	None
254	II	4-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
254	III	13-64	Brown Sandy Silt	Former Plow Zone	None
254	IV	64-74	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
255	I	0-4	Sod	Modern Surface	None
255	II	4-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
255	III	14-61	Brown Sandy Silt	Former Plow Zone	None
255	IV	61-70	Light Brown Clayey Silt with Sand	Sub-soil	None
256	I	0-5	Sod	Modern Surface	None
256	II	5-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
256	III	13-62	Brown Sandy Silt	Former Plow Zone	None
256	IV	62-73	Light Brown Clayey Silt with Sand	Sub-soil	None
257	I	0-4	Sod	Modern Surface	None
257	II	4-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
257	III	14-63	Brown Sandy Silt	Former Plow Zone	None
257	IV	63-83	Light Brown Clayey Silt with Sand	Sub-soil	None
258	I	0-3	Sod	Modern Surface	None
258	II	3-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
258	III	14-65	Brown Sandy Silt	Former Plow Zone	None
258	IV	65-74	Light Brown Clayey Silt with Sand	Sub-soil	None
259	I	0-4	Sod	Modern Surface	None
259	II	4-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
259	III	14-63	Brown Sandy Silt	Former Plow Zone	None
259	IV	63-77	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
260	I	0-4	Sod	Modern Surface	None
260	II	4-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
260	III	14-65	Brown Sandy Silt	Former Plow Zone	None
260	IV	65-70	Light Brown Clayey Silt with Sand	Sub-soil	None
261	I	0-6	Sod	Modern Surface	None
261	II	6-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
261	III	13-63	Brown Sandy Silt	Former Plow Zone	None
261	IV	63-73	Light Brown Clayey Silt with Sand	Sub-soil	None
262	I	0-4	Sod	Modern Surface	None
262	II	4-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
262	III	16-62	Brown Sandy Silt	Former Plow Zone	None
262	IV	62-81	Light Brown Clayey Silt with Sand	Sub-soil	None
263	I	0-3	Sod	Modern Surface	None
263	II	3-11	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	1 fragment black plastic
263	III	11-61	Brown Sandy Silt	Former Plow Zone	None
263	IV	65-74	Light Brown Clayey Silt with Sand	Sub-soil	None
264	I	0-4	Sod	Modern Surface	None
264	II	4-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
264	III	14-61	Brown Sandy Silt	Former Plow Zone	None
264	IV	63-71	Light Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
265	I	0-5	Sod	Modern Surface	None
265	II	5-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
265	III	13-60	Dark Brown Sandy Silt	Former Plow Zone	None
265	IV	60-72	Yellow Brown Clayey Silt with Sand	Sub-soil	None
266	I	0-6	Sod	Modern Surface	None
266	II	6-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
266	III	12-63	Dark Brown Sandy Silt	Former Plow Zone	None
266	IV	63-73	Yellow Brown Clayey Silt with Sand	Sub-soil	None
267	I	0-4	Sod	Modern Surface	None
267	II	4-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
267	III	15-64	Dark Brown Sandy Silt	Former Plow Zone	None
267	IV	64-80	Yellow Brown Clayey Silt with Sand	Sub-soil	None
268	I	0-3	Sod	Modern Surface	None
268	II	3-11	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
268	III	11-61	Dark Brown Sandy Silt	Former Plow Zone	None
268	IV	65-73	Yellow Brown Clayey Silt with Sand	Sub-soil	None
269	I	0-3	Sod	Modern Surface	None
269	II	3-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
269	III	14-63	Dark Brown Sandy Silt	Former Plow Zone	None
269	IV	63-73	Yellow Brown Clayey Silt with Sand	Sub-soil	None



**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
270	I	0-5	Sod	Modern Surface	None
270	II	5-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
270	III	12-62	Dark Brown Sandy Silt	Former Plow Zone	None
270	IV	62-71	Yellow Brown Clayey Silt with Sand	Sub-soil	None
271	I	0-6	Sod	Modern Surface	None
271	II	6-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
271	III	13-63	Dark Brown Sandy Silt	Former Plow Zone	None
271	IV	63-74	Yellow Brown Clayey Silt with Sand	Sub-soil	None
272	I	0-5	Sod	Modern Surface	None
272	II	5-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
272	III	16-66	Dark Brown Sandy Silt	Former Plow Zone	None
272	IV	66-81	Yellow Brown Clayey Silt with Sand	Sub-soil	None
273	I	0-3	Sod	Modern Surface	None
273	II	3-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
273	III	13-64	Dark Brown Sandy Silt	Former Plow Zone	None
273	IV	64-73	Yellow Brown Clayey Silt with Sand	Sub-soil	None
274	I	0-3	Sod	Modern Surface	None
274	II	3-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	1 fragment amber tinted glass
274	III	14-64	Dark Brown Sandy Silt	Former Plow Zone	None
274	IV	63-74	Yellow Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
275	I	0-5	Sod	Modern Surface	None
275	II	5-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
275	III	14-63	Dark Brown Sandy Silt	Former Plow Zone	None
275	IV	63-73	Yellow Brown Clayey Silt with Sand	Sub-soil	None
276	I	0-4	Sod	Modern Surface	None
276	II	4-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
276	III	14-65	Dark Brown Sandy Silt	Former Plow Zone	None
276	IV	65-75	Yellow Brown Clayey Silt with Sand	Sub-soil	None
277	I	0-5	Sod	Modern Surface	None
277	II	5-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
277	III	15-66	Dark Brown Sandy Silt	Former Plow Zone	None
277	IV	66-85	Yellow Brown Clayey Silt with Sand	Sub-soil	None
278	I	0-5	Sod	Modern Surface	None
278	II	5-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
278	III	13-61	Dark Brown Sandy Silt	Former Plow Zone	None
278	IV	61-73	Yellow Brown Clayey Silt with Sand	Sub-soil	None
279	I	0-5	Sod	Modern Surface	None
279	II	5-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
279	III	15-65	Dark Brown Sandy Silt	Former Plow Zone	None
279	IV	63-75	Yellow Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
280	I	0-5	Sod	Modern Surface	None
280	II	5-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
280	III	13-61	Dark Brown Sandy Silt	Former Plow Zone	None
280	IV	61-71	Yellow Brown Clayey Silt with Sand	Sub-soil	None
281	I	0-6	Sod	Modern Surface	None
281	II	6-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
281	III	13-64	Dark Brown Sandy Silt	Former Plow Zone	None
281	IV	64-74	Yellow Brown Clayey Silt with Sand	Sub-soil	None
282	I	0-5	Sod	Modern Surface	None
282	II	5-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
282	III	14-64	Dark Brown Sandy Silt	Former Plow Zone	None
282	IV	64-84	Yellow Brown Clayey Silt with Sand	Sub-soil	None
283	I	0-3	Sod	Modern Surface	None
283	II	3-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
283	III	16-64	Dark Brown Sandy Silt	Former Plow Zone	None
283	IV	64-76	Yellow Brown Clayey Silt with Sand	Sub-soil	None
284	I	0-5	Sod	Modern Surface	None
284	II	5-17	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	1 fragment oxidized barbed wire
284	III	17-66	Dark Brown Sandy Silt	Former Plow Zone	None
284	IV	66-74	Yellow Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
285	I	0-4	Sod	Modern Surface	None
285	II	4-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
285	III	14-64	Dark Brown Sandy Silt	Former Plow Zone	None
285	IV	62-75	Yellow Brown Clayey Silt with Sand	Sub-soil	None
286	I	0-5	Sod	Modern Surface	None
286	II	5-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
286	III	15-63	Dark Brown Sandy Silt	Former Plow Zone	None
286	IV	63-74	Yellow Brown Clayey Silt with Sand	Sub-soil	None
287	I	0-5	Sod	Modern Surface	None
287	II	5-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
287	III	16-66	Dark Brown Sandy Silt	Former Plow Zone	None
287	IV	66-81	Yellow Brown Clayey Silt with Sand	Sub-soil	None
288	I	0-5	Sod	Modern Surface	None
288	II	5-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
288	III	15-64	Dark Brown Sandy Silt	Former Plow Zone	None
288	IV	64-75	Yellow Brown Clayey Silt with Sand	Sub-soil	None
289	I	0-3	Sod	Modern Surface	None
289	II	3-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
289	III	16-64	Dark Brown Sandy Silt	Former Plow Zone	None
289	IV	63-76	Yellow Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
290	I	0-5	Sod	Modern Surface	None
290	II	5-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
290	III	14-63	Dark Brown Sandy Silt	Former Plow Zone	None
290	IV	63-73	Yellow Brown Clayey Silt with Sand	Sub-soil	None
291	I	0-6	Sod	Modern Surface	None
291	II	6-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
291	III	14-64	Dark Brown Sandy Silt	Former Plow Zone	None
291	IV	64-74	Yellow Brown Clayey Silt with Sand	Sub-soil	None
292	I	0-5	Sod	Modern Surface	None
292	II	5-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
292	III	16-64	Dark Brown Sandy Silt	Former Plow Zone	None
292	IV	64-81	Yellow Brown Clayey Silt with Sand	Sub-soil	None
293	I	0-4	Sod	Modern Surface	None
293	II	4-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
293	III	13-64	Dark Brown Sandy Silt	Former Plow Zone	None
293	IV	64-73	Yellow Brown Clayey Silt with Sand	Sub-soil	None
294	I	0-3	Sod	Modern Surface	None
294	II	3-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
294	III	14-64	Dark Brown Sandy Silt	Former Plow Zone	None
294	IV	64-75	Yellow Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
295	I	0-6	Sod	Modern Surface	None
295	II	6-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
295	III	16-63	Dark Brown Sandy Silt	Former Plow Zone	None
295	IV	63-78	Yellow Brown Clayey Silt with Sand	Sub-soil	None
296	I	0-6	Sod	Modern Surface	1 fragment charcoal (wt.: 1.1 grams)
296	II	6-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
296	III	14-65	Dark Brown Sandy Silt	Former Plow Zone	None
296	IV	65-74	Yellow Brown Clayey Silt with Sand	Sub-soil	None
297	I	0-5	Sod	Modern Surface	None
297	II	5-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
297	III	15-62	Dark Brown Sandy Silt	Former Plow Zone	None
297	IV	62-81	Yellow Brown Clayey Silt with Sand	Sub-soil	None
298	I	0-4	Sod	Modern Surface	None
298	II	4-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
298	III	14-64	Dark Brown Sandy Silt	Former Plow Zone	None
298	IV	64-73	Yellow Brown Clayey Silt with Sand	Sub-soil	None
299	I	0-3	Sod	Modern Surface	None
299	II	3-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
299	III	15-64	Dark Brown Sandy Silt	Former Plow Zone	None
299	IV	64-75	Yellow Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
300	I	0-5	Sod	Modern Surface	None
300	II	5-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
300	III	15-65	Dark Brown Sandy Silt	Former Plow Zone	None
300	IV	65-73	Yellow Brown Clayey Silt with Sand	Sub-soil	None
301	I	0-5	Sod	Modern Surface	None
301	II	5-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
301	III	15-65	Dark Brown Sandy Silt	Former Plow Zone	None
301	IV	64-76	Yellow Brown Clayey Silt with Sand	Sub-soil	None
302	I	0-6	Sod	Modern Surface	None
302	II	6-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
302	III	16-66	Dark Brown Sandy Silt	Former Plow Zone	None
302	IV	66-81	Yellow Brown Clayey Silt with Sand	Sub-soil	None
303	I	0-6	Sod	Modern Surface	None
303	II	6-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
303	III	14-64	Dark Brown Sandy Silt	Former Plow Zone	None
303	IV	64-74	Yellow Brown Clayey Silt with Sand	Sub-soil	None
304	I	0-3	Sod	Modern Surface	None
304	II	3-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
304	III	15-66	Dark Brown Sandy Silt	Former Plow Zone	None
304	IV	66-76	Yellow Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
305	I	0-5	Sod	Modern Surface	None
305	II	5-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
305	III	16-62	Dark Brown Sandy Silt	Former Plow Zone	None
305	IV	62-72	Yellow Brown Clayey Silt with Sand	Sub-soil	None
306	I	0-5	Sod	Modern Surface	None
306	II	5-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
306	III	15-62	Dark Brown Sandy Silt	Former Plow Zone	None
306	IV	62-76	Yellow Brown Clayey Silt with Sand	Sub-soil	None
307	I	0-6	Sod	Modern Surface	None
307	II	6-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
307	III	14-66	Dark Brown Sandy Silt	Former Plow Zone	None
307	IV	66-84	Yellow Brown Clayey Silt with Sand	Sub-soil	None
308	I	0-4	Sod	Modern Surface	None
308	II	4-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	1 green and white glass marble
308	III	14-64	Dark Brown Sandy Silt	Former Plow Zone	None
308	IV	64-74	Yellow Brown Clayey Silt with Sand	Sub-soil	None
309	I	0-4	Sod	Modern Surface	None
309	II	4-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
309	III	14-65	Dark Brown Sandy Silt	Former Plow Zone	None
309	IV	65-76	Yellow Brown Clayey Silt with Sand	Sub-soil	None



**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
310	I	0-6	Sod	Modern Surface	None
310	II	6-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
310	III	16-66	Dark Brown Sandy Silt	Former Plow Zone	None
310	IV	66-72	Yellow Brown Clayey Silt with Sand	Sub-soil	None
311	I	0-5	Sod	Modern Surface	None
311	II	5-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
311	III	14-63	Dark Brown Sandy Silt	Former Plow Zone	None
311	IV	63-73	Yellow Brown Clayey Silt with Sand	Sub-soil	None
312	I	0-3	Sod	Modern Surface	None
312	II	3-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
312	III	13-61	Dark Brown Sandy Silt	Former Plow Zone	None
312	IV	61-81	Yellow Brown Clayey Silt with Sand	Sub-soil	None
313	I	0-5	Sod	Modern Surface	None
313	II	5-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
313	III	12-61	Dark Brown Sandy Silt	Former Plow Zone	None
313	IV	61-76	Yellow Brown Clayey Silt with Sand	Sub-soil	None
314	I	0-4	Sod	Modern Surface	None
314	II	4-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
314	III	15-60	Dark Brown Sandy Silt	Former Plow Zone	None
314	IV	60-72	Yellow Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
315	I	0-4	Sod	Modern Surface	None
315	II	4-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
315	III	14-61	Dark Brown Sandy Silt	Former Plow Zone	None
315	IV	61-71	Yellow Brown Clayey Silt with Sand	Sub-soil	None
316	I	0-5	Sod	Modern Surface	None
316	II	5-11	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
316	III	11-61	Dark Brown Sandy Silt	Former Plow Zone	None
316	IV	61-71	Yellow Brown Clayey Silt with Sand	Sub-soil	None
317	I	0-4	Sod	Modern Surface	None
317	II	4-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
317	III	13-61	Dark Brown Sandy Silt	Former Plow Zone	None
317	IV	61-83	Yellow Brown Clayey Silt with Sand	Sub-soil	None
318	I	0-5	Sod	Modern Surface	None
318	II	5-11	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
318	III	11-62	Dark Brown Sandy Silt	Former Plow Zone	None
318	IV	62-76	Yellow Brown Clayey Silt with Sand	Sub-soil	None
319	I	0-4	Sod	Modern Surface	None
319	II	4-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
319	III	12-60	Dark Brown Sandy Silt	Former Plow Zone	None
319	IV	60-72	Yellow Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
320	I	0-5	Sod	Modern Surface	None
320	II	5-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
320	III	15-65	Dark Brown Sandy Silt	Former Plow Zone	None
320	IV	65-71	Yellow Brown Clayey Silt with Sand	Sub-soil	None
321	I	0-5	Sod	Modern Surface	None
321	II	5-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
321	III	15-61	Dark Brown Sandy Silt	Former Plow Zone	None
321	IV	61-75	Yellow Brown Clayey Silt with Sand	Sub-soil	None
322	I	0-4	Sod	Modern Surface	None
322	II	4-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
322	III	15-61	Dark Brown Sandy Silt	Former Plow Zone	None
322	IV	61-75	Yellow Brown Clayey Silt with Sand	Sub-soil	None
323	I	0-7	Sod	Modern Surface	None
323	II	7-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
323	III	12-61	Dark Brown Sandy Silt	Former Plow Zone	None
323	IV	61-71	Yellow Brown Clayey Silt with Sand	Sub-soil	None
324	I	0-4	Sod	Modern Surface	None
324	II	4-11	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
324	III	11-61	Dark Brown Sandy Silt	Former Plow Zone	None
324	IV	61-71	Yellow Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
325	I	0-4	Sod	Modern Surface	None
325	II	4-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
325	III	14-19	Yellow Brown Clayey Silt with Sand	Sub-soil	None
326	I	0-5	Sod	Modern Surface	None
326	II	5-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
326	III	16-19	Yellow Brown Clayey Silt with Sand	Sub-soil	None
327	I	0-4	Sod	Modern Surface	1 fragment insulated wire
327	II	4-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
327	III	16-23	Yellow Brown Clayey Silt with Sand	Sub-soil	None
328	I	0-5	Sod	Modern Surface	None
328	II	5-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
328	III	15-24	Yellow Brown Clayey Silt with Sand	Sub-soil	None
329	I	0-4	Sod	Modern Surface	None
329	II	4-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
329	III	12-26	Yellow Brown Clayey Silt with Sand	Sub-soil	None
330	I	0-4	Sod	Modern Surface	None
330	II	4-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
330	III	12-18	Yellow Brown Clayey Silt with Sand	Sub-soil	None
331	I	0-4	Sod	Modern Surface	None
331	II	4-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
331	III	12-20	Yellow Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
332	I	0-5	Sod	Modern Surface	None
332	II	5-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
332	III	15-22	Yellow Brown Clayey Silt with Sand	Sub-soil	None
333	I	0-5	Sod	Modern Surface	None
333	II	5-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
333	III	15-24	Yellow Brown Clayey Silt with Sand	Sub-soil	None
334	I	0-5	Sod	Modern Surface	None
334	II	5-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
334	III	16-27	Yellow Brown Clayey Silt with Sand	Sub-soil	None
335	I	0-5	Sod	Modern Surface	None
335	II	5-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
335	III	15-17	Yellow Brown Clayey Silt with Sand	Sub-soil	None
336	I	0-4	Sod	Modern Surface	None
336	II	4-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
336	III	14-60	Dark Brown Sandy Silt	Former Plow Zone	None
336	IV	60-71	Yellow Brown Clayey Silt with Sand	Sub-soil	None
337	I	0-4	Sod	Modern Surface	None
337	II	4-11	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
337	III	11-61	Dark Brown Sandy Silt	Former Plow Zone	None
337	IV	61-72	Yellow Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
338	I	0-5	Sod	Modern Surface	None
338	II	5-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
338	III	16-67	Dark Brown Sandy Silt	Former Plow Zone	None
338	IV	67-72	Yellow Brown Clayey Silt with Sand	Sub-soil	None
339	I	0-5	Sod	Modern Surface	None
339	II	5-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
339	III	14-62	Dark Brown Sandy Silt	Former Plow Zone	None
339	IV	62-72	Yellow Brown Clayey Silt with Sand	Sub-soil	None
340	I	0-4	Sod	Modern Surface	None
340	II	4-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
340	III	15-62	Dark Brown Sandy Silt	Former Plow Zone	None
340	IV	62-72	Yellow Brown Clayey Silt with Sand	Sub-soil	None
341	I	0-4	Sod	Modern Surface	None
341	II	4-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
341	III	12-64	Dark Brown Sandy Silt	Former Plow Zone	None
341	IV	64-71	Yellow Brown Clayey Silt with Sand	Sub-soil	None
342	I	0-7	Sod	Modern Surface	None
342	II	7-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
342	III	14-64	Dark Brown Sandy Silt	Former Plow Zone	None
342	IV	64-71	Yellow Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
343	I	0-7	Sod	Modern Surface	None
343	II	7-17	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
343	III	17-67	Dark Brown Sandy Silt	Former Plow Zone	None
343	IV	67-77	Yellow Brown Clayey Silt with Sand	Sub-soil	None
344	I	0-7	Sod	Modern Surface	None
344	II	7-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
344	III	13-63	Dark Brown Sandy Silt	Former Plow Zone	None
344	IV	63-73	Yellow Brown Clayey Silt with Sand	Sub-soil	None
345	I	0-3	Sod	Modern Surface	None
345	II	3-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
345	III	14-65	Dark Brown Sandy Silt	Former Plow Zone	None
345	IV	65-76	Yellow Brown Clayey Silt with Sand	Sub-soil	None
346	I	0-6	Sod	Modern Surface	None
346	II	6-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
346	III	16-66	Dark Brown Sandy Silt	Former Plow Zone	None
346	IV	66-71	Yellow Brown Clayey Silt with Sand	Sub-soil	None
347	I	0-7	Sod	Modern Surface	None
347	II	7-17	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
347	III	17-67	Dark Brown Sandy Silt	Former Plow Zone	None
347	IV	67-77	Yellow Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
348	I	0-6	Sod	Modern Surface	None
348	II	6-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
348	III	15-66	Dark Brown Sandy Silt	Former Plow Zone	None
348	IV	66-71	Yellow Brown Clayey Silt with Sand	Sub-soil	None
349	I	0-5	Sod	Modern Surface	None
349	II	5-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
349	III	16-66	Dark Brown Sandy Silt	Former Plow Zone	None
349	IV	66-75	Yellow Brown Clayey Silt with Sand	Sub-soil	None
350	I	0-4	Sod	Modern Surface	None
350	II	4-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
350	III	13-63	Dark Brown Sandy Silt	Former Plow Zone	None
350	IV	63-73	Yellow Brown Clayey Silt with Sand	Sub-soil	None
351	I	0-5	Sod	Modern Surface	None
351	II	5-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
351	III	12-65	Dark Brown Sandy Silt	Former Plow Zone	None
351	IV	65-71	Yellow Brown Clayey Silt with Sand	Sub-soil	None
352	I	0-3	Sod	Modern Surface	None
352	II	3-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
352	III	13-61	Dark Brown Sandy Silt	Former Plow Zone	None
352	IV	61-73	Yellow Brown Clayey Silt with Sand	Sub-soil	None



**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
353	I	0-5	Sod	Modern Surface	None
353	II	5-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
353	III	14-62	Dark Brown Sandy Silt	Former Plow Zone	None
353	IV	62-72	Yellow Brown Clayey Silt with Sand	Sub-soil	None
354	I	0-6	Sod	Modern Surface	None
354	II	6-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
354	III	16-65	Dark Brown Sandy Silt	Former Plow Zone	None
354	IV	65-75	Yellow Brown Clayey Silt with Sand	Sub-soil	None
355	I	0-7	Sod	Modern Surface	None
355	II	7-17	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
355	III	17-61	Dark Brown Sandy Silt	Former Plow Zone	None
355	IV	61-75	Yellow Brown Clayey Silt with Sand	Sub-soil	None
356	I	0-4	Sod	Modern Surface	None
356	II	4-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
356	III	14-60	Dark Brown Sandy Silt	Former Plow Zone	None
356	IV	60-74	Yellow Brown Clayey Silt with Sand	Sub-soil	None
357	I	0-4	Sod	Modern Surface	None
357	II	4-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
357	III	14-64	Dark Brown Sandy Silt	Former Plow Zone	None
357	IV	64-72	Yellow Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
358	I	0-6	Sod	Modern Surface	None
358	II	6-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
358	III	15-64	Dark Brown Sandy Silt	Former Plow Zone	None
358	IV	64-70	Yellow Brown Clayey Silt with Sand	Sub-soil	None
359	I	0-5	Sod	Modern Surface	None
359	II	5-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
359	III	14-64	Dark Brown Sandy Silt	Former Plow Zone	None
359	IV	64-71	Yellow Brown Clayey Silt with Sand	Sub-soil	None
360	I	0-4	Sod	Modern Surface	None
360	II	4-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
360	III	12-60	Dark Brown Sandy Silt	Former Plow Zone	None
360	IV	60-70	Yellow Brown Clayey Silt with Sand	Sub-soil	None
361	I	0-7	Sod	Modern Surface	None
361	II	7-13	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
361	III	13-61	Dark Brown Sandy Silt	Former Plow Zone	None
361	IV	61-71	Yellow Brown Clayey Silt with Sand	Sub-soil	None
362	I	0-6	Sod	Modern Surface	None
362	II	6-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
362	III	12-62	Dark Brown Sandy Silt	Former Plow Zone	None
362	IV	62-72	Yellow Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
363	I	0-5	Sod	Modern Surface	None
363	II	5-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
363	III	14-60	Brown Sandy Silt	Former Plow Zone	None
363	IV	60-73	Yellow Brown Clayey Silt with Sand	Sub-soil	None
364	I	0-5	Sod	Modern Surface	None
364	II	5-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
364	III	15-69	Brown Sandy Silt	Former Plow Zone	None
364	IV	69-79	Yellow Brown Clayey Silt with Sand	Sub-soil	None
365	I	0-5	Sod	Modern Surface	None
365	II	5-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
365	III	15-65	Brown Sandy Silt	Former Plow Zone	None
365	IV	65-70	Yellow Brown Clayey Silt with Sand	Sub-soil	None
366	I	0-4	Sod	Modern Surface	None
366	II	4-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
366	III	14-64	Brown Sandy Silt	Former Plow Zone	None
366	IV	64-70	Yellow Brown Clayey Silt with Sand	Sub-soil	None
367	I	0-4	Sod	Modern Surface	None
367	II	4-12	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
367	III	12-67	Brown Sandy Silt	Former Plow Zone	None
367	IV	67-73	Yellow Brown Clayey Silt with Sand	Sub-soil	None

**ZONE B – NORTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
368	I	0-5	Sod	Modern Surface	None
368	II	5-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
368	III	15-61	Brown Sandy Silt	Former Plow Zone	None
368	IV	61-73	Yellow Brown Clayey Silt with Sand	Sub-soil	None
369	I	0-5	Sod	Modern Surface	None
369	II	5-16	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
369	III	16-62	Brown Sandy Silt	Former Plow Zone	None
369	IV	62-72	Yellow Brown Clayey Silt with Sand	Sub-soil	None
370	I	0-6	Sod	Modern Surface	None
370	II	6-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
370	III	14-60	Brown Sandy Silt	Former Plow Zone	None
370	IV	60-71	Yellow Brown Clayey Silt with Sand	Sub-soil	None

**ZONE C - SOUTH OF RED MILLS ROAD**

<b>SHOVEL TEST</b>	<b>STRA.</b>	<b>DEPTH (cm.)</b>	<b>DESCRIPTION</b>	<b>CONTEXT</b>	<b>CULTURAL MATERIAL</b>
371	I	0-5	Sod	Modern Surface	None
371	II	5-15	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
371	III	15-25	Light Tan Sandy Silt – Compacted	Disturbed/Graded Layer	None
371	IV	25-30	Yellow Brown Sandy Silt with Light Tans Sandy Silt mottling	Sub-soil	None
371	V	30-50	Yellow Brown Sandy Silt	Sub-soil	None
372	I	0-5	Sod	Modern Surface	1 fragment green plastic
372	II	5-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
372	III	14-26	Light Tan Sandy Silt – Compacted	Disturbed/Graded Layer	None
372	IV	26-30	Yellow Brown Sandy Silt with Light Tans Sandy Silt mottling	Sub-soil	None
372	V	30-56	Yellow Brown Sandy Silt	Sub-soil	None
373	I	0-5	Sod	Modern Surface	None
373	II	5-14	Light Gray Brown Sandy Silt	Underlying Leaching Zone Soil	None
373	III	14-24	Light Tan Sandy Silt – Compacted	Disturbed/Graded Layer	None
373	IV	24-31	Yellow Brown Sandy Silt with Light Tans Sandy Silt mottling	Sub-soil	None
373	V	31-46	Yellow Brown Sandy Silt	Sub-soil	None

**ZONE C - SOUTH OF RED MILLS ROAD**

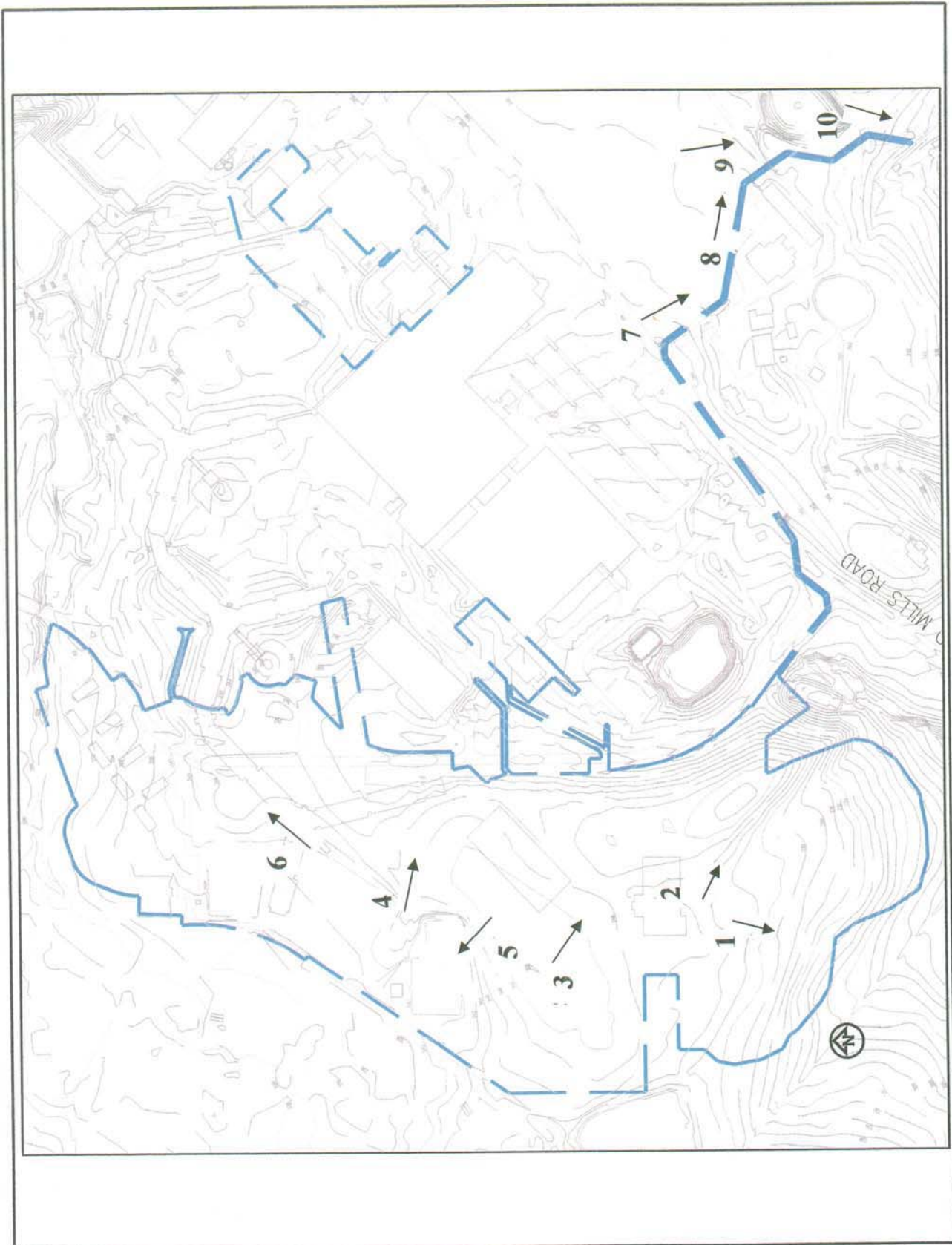
374	I	0-25	Dark Brown Sandy Silt with Pebbles	Plow Zone	1 fragment black plastic
374	II	25-37	Brown Sandy Silt with Pebbles	Plow Zone	None
374	III	37-43	Yellow Brown Sandy Silt	Sub-soil	None
375	I	0-25	Dark Brown Sandy Silt with Pebbles	Plow Zone	None
375	II	25-31	Brown Sandy Silt with Pebbles	Plow Zone	None
375	III	31-36	Yellow Brown Sandy Silt	Sub-soil	None
376	I	0-3	Gray Brown Sandy Silt	Modern Surface	None
376	II	3-8	Brown Sandy Silt with Gravel	Disturbed/Graded Layers	None
376	III	8-25	Yellow Brown Sandy Silt	Sub-soil	None
377	I	0-3	Gray Brown Sandy Silt	Modern Surface	None
377	II	3-10	Brown Sandy Silt with Gravel	Disturbed/Graded Layers	None
377	III	10-26	Yellow Brown Sandy Silt	Sub-soil	None
378	I	0-5	Sod	Modern Surface	1 fragment green tinted bottle glass
378	II	5-20	Gray Brown Sandy Silt with Pebbles	Disturbed/Graded Layers	None
378	III	20-26	Yellow Brown Sandy Silt	Sub-soil	None
379	I	0-5	Sod	Modern Surface	1 aluminum can fragment
379	II	5-21	Gray Brown Sandy Silt with Pebbles	Disturbed/Graded Layers	None
379	III	21-26	Yellow Brown Sandy Silt	Sub-soil	None
380	I	0-5	Sod	Modern Surface	None
380	II	5-22	Gray Brown Sandy Silt with Pebbles	Disturbed/Graded Layers	None
380	III	22-24	Yellow Brown Sandy Silt	Sub-soil	None
381	I	0-5	Sod	Modern Surface	None
381	II	5-25	Light Tan Sandy Silt with Gravel	Disturbed/Graded Layers	None
381	III	25-36	Yellow Brown Sandy Silt	Sub-soil	None
382	I	0-5	Sod	Modern Surface	None
382	II	5-23	Light Tan Sandy Silt with Gravel	Disturbed/Graded Layers	None
382	III	23-50	Yellow Brown Sandy Silt	Sub-soil	None
383	I	0-5	Sod	Modern Surface	None
383	II	5-28	Light Tan Sandy Silt with Gravel	Disturbed/Graded Layers	None
383	III	28-38	Yellow Brown Sandy Silt	Sub-soil	None
384	I	0-5	Sod	Modern Surface	None
384	II	5-26	Light Tan Sandy Silt with Gravel	Disturbed/Graded Layers	None
384	III	26-33	Yellow Brown Sandy Silt	Sub-soil	None

**APPENDIX B**

**LOCATIONS OF PHOTOGRAPHIC VIEWS INCLUDED IN THIS REPORT AS  
PHOTOGRAPHS 1 - 10**







**Key:**

**1 - 10 : Locations of Photographic Views Included  
in this Report as Photographs 1 - 10**

# APPENDIX 10


## *Noise Measurement and Analysis*



**Watch Tower, Wallkill, New York**

**Report Authorization Page**

I, Michael P. Bontje, President of B. Laing Associates, Inc. have prepared and authorize release of the Noise Measurements and Analysis report, which was prepared for Watch Tower Farms in April of 2008.

  
\_\_\_\_\_  
Michael P. Bontje  
President

  
\_\_\_\_\_  
Date



**Noise Measurements and Analysis  
Watchtower Farms  
Walkkill, New York  
April 2008**



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**Noise Measurements and Analysis  
Watchtower Farms  
Wallkill, New York  
April 2008**

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**Table 1. Measured Noise Levels at Selected Points**

## 1.0 EXISTING CONDITION

Sound is created and received when changes of pressure (waves) are produced in the air. These pressure changes are created at many frequencies (i.e., spacing of the waves). The average person's ear can detect sounds ranging from 20 to more than 10,000 hertz (Hz). Each frequency is detectable at different pressure levels and so, the system for sound measurement which mimics the human ear is an A-weighted decibel system or dB(A)'s. The human ear can barely detect a 3 dB(A) change in the sound levels which is approximately a doubling of sound wave pressure. Sound measurements in this case were made using a Bruel & Kjaer Model 884, Type s2A, which is meant to measure A-weighted decibel levels as a mimic of the average human ear.

With regard to the methodology of the ambient noise analysis, there is no specific mathematical methodology that was applied to ambient noise measurements. The readings are straight forward, in 15 and 30 minute intervals, and were monitored at a fixed point given existing conditions. The directly measured levels occurred mid-morning, in sunny conditions with variable winds (10-20 mph) and 50 degree temperatures (F). The measured levels were dominated by low ambient noise levels with a limited frequency of vehicle traffic two sample points along the facility's Loop Road, and one along Red Mills Road. They would be expected to increase, only very slightly, the dominance of peak values at "rush hour" periods in the AM and PM.

Noise levels, in the existing condition, were measured at the site's Main Lobby entrance on Red Mills Road, and points along the facility's limited access Loop Road. At the site's western portion of the Loop Road, measurements averaged (sustained) at 38 dB(A) and then ranging from 50-65 dB(A) when passenger cars, trailer trucks and planes overhead passed. These sound levels result from the existing (sparse) traffic that enters the facility via the Loop Road. The Loop Road is subject to sparse car/truck traffic because it is limited to authorized personnel or residents living on the premises. The Loop Road regulated by a gate at its entry. A quiet residential neighborhood on a typical day would experience sound levels ranging from 45 to 50 dB(A). Since every 3 dB(A) is a doubling of sound pressure (or a halving of sound pressure), the existing sound levels at the site's western portion of the Loop Road is less than would be expected for a "typical" residential land use site. The site would better be characterized as quiet-rural.

Additional points were monitored through out the site to conduct a thorough noise analysis in and around the site. Noise measurements were taken at three locations (Samples 1 through 3). The following readings were taken March 26, 2008. Sample #1 – Western Portion of the Loop Road readings were at 38-40 dB(A) with only birds and insects noises and a peak of 65 dB(A) caused by a airplane overhead at cruising altitude. Sample #2-Northwest Portion of the Loop Road readings were at 38-40 dB(A) with only birds and insects noises and a peaks of 80 dB(A) when single occurrences of passenger cars passed by. Sample #3 – Red Mills Rd, at Guest Parking read 40-50 dB(A) with a peak of 75 dB(A) when multiple cars passed by on Red Mills Road. These peak values in the 70's dB(A) are evident only along Red Mills Rd..



<b>TABLE 1</b>				
<b>MEASURED NOISE LEVELS AT SELECTED SAMPLE POINTS<sup>1</sup></b>				
<b>SAMPLE POINTS</b>	<b>1<sup>ST</sup> PERIOD</b>	<b>2<sup>ND</sup> PERIOD</b>	<b>PEAK/LOW</b>	<b>AVERAGE</b>
<b>LOOP ROAD</b>	<b>15 minutes</b>	<b>30 minutes</b>		
<b>WEST PORTION</b>	<b>38</b>	<b>38</b>	<b>63/38</b>	<b>38</b>
<b>LOOP ROAD</b>	<b>15 minutes</b>	<b>30 minutes</b>		
<b>NORTHWEST PORTION</b>	<b>38</b>	<b>38</b>	<b>80/38</b>	<b>38</b>
<b>RED MILLS ROAD</b>	<b>15 minutes</b>	<b>30 minutes</b>		
<b>MAIN LOBBY ENTRANCE</b>	<b>40</b>	<b>45</b>	<b>75/40</b>	<b>42.5</b>

Noise levels recorded above are all approximately as expected for a rural area. Although the site is a fairly large factory/residential facility (housing approximately 1,500 people), it is a self contained site. The site contains a private access road for workers and residents known as Loop Road that allows access to the several resident buildings, and recreational areas (all amenities are located and/or provided on-site). The site is fairly remote in regards to other land, structures and neighborhoods. The majority of adjacent lands (within a 0.5 mile radius) is owned and operated by Watch Tower Farms. The majority of the “noise” created in or around the facility is located at the guest/main entrance area along Red Mills Road, a public road way. Although Red Mills Road is a public road and any increase in traffic and/construction will disturb the adjacent areas, the Watch Tower facility owns and operates all the land within a 2,500 ft radius of the main facility and resident buildings. Thus, any “increase” in noise levels would be noticed (if it is noticeable at all) almost exclusively by themselves.

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<sup>1</sup> Results in **dB(A)**.

## 2.0 IMPACTS

### 2.1 Construction

During construction noise levels will be (1) temporary and (2) will occur at two distinctly different levels. First, the temporary component results from the transient nature of the construction process. The U.S. EPA reports noise levels at housing projects range from a high of 88 dB(A) to a low of 75 dB(A) from grading through finishing operations (U.S. EPA, Construction Noise Control Technology Initiatives, Table 2.2-measured at 50 feet).

The approximate location of the proposed construction occurs at a distance of approximately 1,400 feet to the nearest public property, that is Red Mills Road. No other receptors are in direct line of sight from the proposed construction site or closer to it. At a distance of approximately 1,400 feet to Red Mills Road, the noise created by the first portion of the construction process, noise levels ranging from 75 to 88 dB(A) will then decrease as a function of distance. Given initial noise measurement standardized at 50 feet from the noise source, every doubled distance will decrease the noise level by approximately 3 to 5 dB(A). Thus, at a distance of 1,400 feet from the Red Mills Road and a noise level of 75 to 88 dB(A), the noise generated by the "heavy" construction at the construction site, Red Mills Road will be decreased by 8.6 to 19.4 dB(A) or approximately 55.6 to 79.4 dB(A). Once "rough grading" has been finalized and foundations have been poured then, peak upper sound levels will decline further as the construction uses tools which are (1) smaller, (2) less continuous in use and (3) begin to move "indoors." At the second phase of construction, heavy equipment is generally replaced by internal work and hand-equipment on external work. Consequently, it is expected that noise levels will further be reduced to 51.5 to 74.5 dB(A) at Red Mill Road. This level of intermittent noise (up to several hours per day) is expected to occur for approximately nine months to one year.

There is no existing ordinance in the Town of Shawangunk that specifies or enforces a Town code in regards to noise.

### 2.2 Local Roadways

The levels of sound which would be "created" at this site by traffic generated by long term use will have no significant impact on the upper, existing noise levels which already occur in the area's neighborhoods. As provided in "Sound Procedures for Measuring Noise" by the FHWA (November 1982), a light automobile traveling at 20 mph will generate sound levels of 55.0 dB(A) and at 30 mph will generate sound levels of 61.7 dB(A). The traffic from the site will be largely residential and so, will generate sound at 55 to 62 dB(A)'s.

A 3 dB(A) difference is a doubling in sound pressure levels. The existing condition at Red Mills Road is at 40 to 50 dB(A) with higher levels (to 75 dB(A)) as truck traffic passes. As provided in FHWA's "Sound Procedures...", Table 6 indicates that two sound sources with a 5 dB(A) difference may add a 0.5 dB(A) increase to over-all sound levels and any two sources with a 9 dB(A) or greater differential will yield a 2.0 dB(A) increase. Neither "increase" is detectable to the average human ear. It should be noted that this approach assumes that both

sources are continuous and from similar sources. In this case, the added traffic will be a difference of less than 3 to 5 dB(A) and it will be consistent with existing noise sources. As such, the project will not create a level of noise that would noticeably elevate the existing sound levels on Red Mills Road. It will not significantly increase the percentage of time that the area experiences an increase in sound levels (the number of passing vehicles or as traffic delay) and so, will not create a detectable increase duration in peak sound levels.

### 3.0 CONCLUSION

The existing condition of the site occurs as a fairly “quiet” rural neighborhood. The site is in part residential but also contains a printing press. Noise measurements recorded on March 26, 2008 revealed that the site contains very low ambient noise levels, ranging from 38-50 dB(A) with a low frequency in vehicle traffic due to the rural nature of the surrounding area, the private nature of the road encompassing the facility and the self-contained, compact nature of the community. All nearby adjacent structures or noise receptors are part of the Watch Tower facility and will be subject to the noise “impacts” caused by the construction. No other private landowners or outside receptors are close enough to be directly or significantly effected. That is, construction noise will be audible but not loud and it will be temporary in nature. Red Mills Road, a public road, will be subject to a noise increase during construction. Due to the distance of the proposed construction area, some 1,400 feet, noise levels will be increased to approximately 55.6 to 79.4 dB(A) from it’s existing condition. Once the construction is finished, a very slight increase in vehicle frequency will occur and the added “noise” will not have a significant effect. This effect will not cause an increase in noticeable noise levels nor introduce any “foreign” or new noise types.



**Noise Analysis  
Supplement  
Watchtower Farms  
Wallkill, New York  
August 2008**

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The following comments have been received in response to the Noise analysis submitted for the Proposed Action in April 2008. Responses to each comment follow immediately.

- **1. Noise Comment:** *In Section 1.0 of Noise Study – provide additional statement as to the specific factors and/or circumstances that were used to determine what is the worst case scenario as respects noise generation on the project site and confirm that the time period used for sampling does indeed represent this worst case scenario.*
- **Response:** The April 2008 Noise measurements and Analysis report states, “The majority of the “noise” created in or around the facility is located at the guest/main entrance area along Red Mills Road, a public road way.” In the case of the Watch Tower facility, it is a largely self-contained community. That is, the living quarters are immediately adjacent to the working spaces, with the exception of the agricultural functions. Thus, most of the day to day (operational) noise/sound comes for the guests and visitors, particularly those who arrive/leave by motor coach (i.e., busses). These guests all arrive, “at the guest/main entrance area along Red Mills Road.” As the Proposed Action will add to the residential facilities associated with this existing complex and the focus of the “comings and goings” is the guest/main entrance area, the guest/main entrance area would be expected to be the location of the “worst case scenario” for the facility’s operational noise/sound generation.
- **2. Noise Comment:** *In Section 2.0 of Noise Study – provide a relevant Federal or State noise standard against which the anticipated change in noise at our project site could be evaluated.*
- **Response:** No State or Federal standard for residential construction or the “operational noise/sound from same exists. These standards are usually found, in New York State, as local ordinances. Further, the ordinances ordinarily do NOT contain ambient sound levels but, rather, focus on time periods allowed for construction activities. The Town of Shawangunk has no noise ordinance. As an example, the adjacent Town of Wallkill has a noise ordinance, Chapter 165. It prohibits building construction between the hours of 7:00 a.m. and 9:00 p.m. In terms of the present case, audibility to the human ear was the reference point. Any increase of 3 dB(A) or less is inaudible and any increase between 3 dB(A) and 5 dB(A) is audible only to those with average hearing (Acoustic Noise Measurements, Bruel & Kjaer, June 1988, 5<sup>th</sup> printing, Table 2.1). Thus, given the distances to public receptors, the analysis broadly concluded that the construction will be

audible but not unacceptably so and that the “operational” phase will not create any noticeable increase in local noise levels.

- **3. Noise Comment:** *..we need a reference for the statement.....”noise levels recorded above are all approximately as expected for a rural area.”*
- **Response:** The context in which this statement was made is based on personal experience. That is, 28 years and over 1,000 parcels of land analyzed for environmental impacts.





# APPENDIX 11

## *Air Quality Analysis*



**Watch Tower, Wallkill, New York**

**Report Authorization Page**

I, Michael P. Bontje, President of B. Laing Associates, Inc. have prepared and authorize release of the Air Quality and Analysis report, which was prepared for Watch Tower Farms in April of 2008.



Michael P. Bontje  
President



Date



**Air Quality Analysis  
Watchtower Farms  
Wallkill, New York  
April 2008**

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## 1.0 EXISTING CONDITIONS

### 1.1 Climate

The climate in Shawangunk, NY is continental in nature. Temperatures in Shawangunk are below the National average. Temperatures remain above freezing approximately 5 months of the year and exceed 80 degrees fewer than 1.5 months of the year. Temperatures of less than zero or more than 90 degrees occur on an annual average of less than ten percent of the time. January temperatures range from an average low of 17.5 degrees to an average high of 33 degrees Fahrenheit. July temperatures range from an average low of 62.7 degrees to an average high of 78.8 degrees Fahrenheit. Precipitation in Ulster County is abundant and is evenly distributed throughout the year. The annual precipitation for Shawangunk is 46.98 inches versus a national average of 38.69 inches. Snowfall averages 68 inches per year. The frost-free season lasts from May to September.

### 1.2 Air Quality

Air quality is a relative measure of potentially noxious substances in the air caused by natural or human processes. Certain airborne gases and particulates can cause deterioration of biological life process as well as property damage. Air contaminants or pollutants can be defined as solid particles, liquid particles, and vapors or gases, which are discharged into or may form in the outdoor atmosphere. Air quality in any particular location is influenced by pollutants discharged into the atmosphere and by regional and local climatic and weather conditions.

Major pollutants for which there are Ambient Air Quality Standards are listed in Table 1 and are discussed below.

*Table 1*

<b>PRINCIPAL SOURCES OF COMMUNITY AIR POLLUTANTS</b>		
<b>Pollutant</b>	<b>Principal Source</b>	<b>Standard * *</b>
Sulfur Dioxide (SSO <sub>2</sub> )	Electric power generation (40%) Space heating (30%) Other combustion of fuels in industrial processes (30%)	0.14 ppm Annual
Carbon Monoxide (CO)	Motor vehicles (90%) Other combustion sources (10%)	9 ppm 8 hr. 35 ppm 1 hr
Nitrogen Oxide (NO <sub>x</sub> )	Stationary source combustion (50%) Motor vehicles (50%)	0.5 ppm Annual
Particulates (part)	Many sources, (stationary and mobile) including crushing and grinding operations and natural sources	250 ppm 24 hour
Hydrocarbons (HC)	Motor vehicles (60%) Industrial process & evaporative losses from storage facilities (40%)	0.24 ppm maximum
Oxidants (primarily Ozone)	Produced by the action of sunlight on HC and No <sub>x</sub> compounds in the atmosphere	0.8 ppm 1 hour

\* Only CO and TSP were used as these are the pollutants which can be of concern in traffic impacts.

The sources of contaminants are generally characterized as mobile (transportation related) or stationary. The primary air pollution sources in the project area are characteristic of rural areas: space heating and automotive traffic. The proposed project's potential impact on air quality would stem primarily from its effect on traffic flow in the area (see Potential Impacts, below).

Local ambient concentrations of carbon monoxide (CO) and total suspended particulates (TSP) are largely the result of vehicular emissions and create impacts close to the emission point. These pollutants are the dominant vehicular emission and so are the focal points of any mobile source pollution modeling (usually conducted only if necessary).

Pollutants generated by traffic also includes ozone precursors, hydrocarbons and nitrogen oxides. Fine particulate matter (PM10) also is emitted in vehicle exhaust and generated by tire action on pavement. However, the amount of PM10 generated by individual vehicles is small compared with other sources (e.g., wood-burning stoves). Sulfur oxides and nitrogen dioxide also are emitted by space heating and motor vehicles, but concentrations of these pollutants are not high except near large industrial facilities.

### **1.3 Ambient Air Quality Data and Compliance**

The New York State Department of Environmental Conservation (NYSDEC) Division of Air Resources maintains a network of air quality monitoring stations throughout the State of New York. In general, these stations are located where air quality problems may occur, and so, are often near urban areas or close to specific large air pollution sources. Other stations located in more remote areas provide an indication of regional or background air pollution levels.

The data included in this report is derived from the data from the closest monitoring station to Watch Tower Farms in Shawangunk, NY.

#### Carbon Monoxide

Carbon Monoxide (CO) – is a colorless, odorless, highly toxic gas. It is the most widely distributed and commonly occurring air pollutant in the nation.

There is more carbon monoxide emitted into the atmosphere than all other major air pollutants combined. Most carbon monoxide results from the incomplete or inefficient combustion of fuels containing carbon, primarily in automobile engines. High concentrations of carbon monoxide are referred to as “hot spots” and usually are located at point of frequent traffic congestion.

Carbon Monoxide is usually the pollutant of greatest concern related to transportation sources because it is the pollutant emitted in the greatest quantity for which the short term health standards exist. The short term standard (as opposed to average annual standard) is often the controlling or more restrictive. There are two air quality standards for CO: a one hour average of 35 parts per million (ppm) and eight hour average standard of 9 ppm. These levels may be



exceeded once per year without violating the standard. The closest representative CO monitoring occurred in Loudonville, New York<sup>1</sup> which demonstrated peak levels of 1.5 ppm for the one hour average and an average of 1.1 ppm in the eight hour condition. These measurements are well within the CO standards.

### Total Suspended Particulates

Total Suspended Particulates (TSP): -- particulates are any solid or liquid materials dispersed in the air and which remain airborne anywhere from a few seconds to a few months. Particulates can come from anywhere in the environment, including paved and unpaved roads, field and trash burning, solid waste disposal, industrial process, fuel combustion and transportation sources. They can also be formed in the atmosphere from the photochemical oxidation of hydrocarbons and other pollutants (these particulates are commonly referred to as smog).

In 1987, the Federal total suspended particulate matter standards (TSP) were replaced with standards based on the fraction of total suspended particulate matter less than or equal to 10 microns in diameter (PM10). This is the important size fraction of particulate matter in terms of potential human health impacts, because particles of this size can be inhaled deeply into human lungs. PM10 is generated by industrial activities and operations, residential fuel combustion sources (e.g., wood-burning), motor vehicle engines and other sources.

Ulster County has been declared an attainment area for TSP and PM10. This means that TSP and PM10 levels are considered to be as good or better than the National Ambient Air Quality Standards (NAAQS). The nearest PM10 station is in Newburgh with a three year average of 10.7  $\mu\text{m}^3$  versus a standard of 15  $\mu\text{m}^3$ .

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<sup>1</sup> New York City stations are the next closest CO monitoring locations but are not representative of the project area.

## 2.0 POTENTIAL IMPACTS

### Air Quality

#### (i) Construction

The short term use of heavy equipment operations at the site will result in a temporary minor increase in pollutant emissions from the various equipment used in the construction. However, the major concern during the construction operation will be the control of fugitive dust during site clearing, excavation, demolition and grading operations. Fugitive dust is essentially airborne soil particles caused by heavy equipment operations entraining the soil into the air. To a lesser extent, some fugitive dust emissions will arise from wind erosion of the exposed soil after the groundcover is removed. All construction related air quality impacts will be of relatively short duration and generally not in proximity to public receptors. Due to the on-site residential nature of the site, “best construction management practices” will be employed to reduce possible sources of fugitive dust. In this case, Watch Tower Farms already owns and operates a watering truck, which will be regularly used during construction.

#### (ii) Operation

##### Direct Source Emissions

It is anticipated that the boiler(s) for the buildings will burn No. 2, low-sulfur diesel fuel oil. New York State air quality regulations and permitting procedures do not apply to heating systems fired by low sulfur content, No. 2 fuel oil, whose maximum heat input does not exceed 250 million BTU per hour. That will be the case at the Watch Tower Farms’ residential expansion. Significant atmospheric contaminant emissions related to operation of residential heating equipment will not occur.

##### Indirect Source Emissions

Potential microscale (local) air quality impacts from the construction of the proposed commercial and residential project based on consideration of mobile sources, would be a possible change in local carbon monoxide concentrations due to the traffic generated by the development. Carbon Monoxide (CO) “hot-spots” are normally associated with intersections of very high traffic volumes and unacceptable “Levels of Service” (LOS). These levels of service are designated D, E and F and would result in idling vehicles at local intersections. It is generally accepted practice in air pollution impact analysis that the generation of CO (and other pollutant) levels resulting in significant impacts come from vehicles which queue at subject intersections. These idling vehicles can add significantly to localized or hot spot CO levels. Unacceptable levels of air pollution from automobile emissions and local exceedances of air quality standards can only occur at unacceptable “Levels of Service” (LOS), D, E and F. Such local exceedances (when they occur) are mitigated by providing adequate “Levels of Service” on the roadway network such as adding lanes, re-stripping or changing light sequences.

Local roadways that allow access to the existent Watch Tower Farms facility contain LOS's of A and B. A build scenario, with the proposed residential expansion completed as of 2012 show that the intersections dominantly remain as LOS's of A and B and one C intersection (C intersection modeled the same in the no-build 2012 scenario). To the degree this changes from the existing condition, it is minimal. Furthermore, it is expected that no increase would occur in CO, as discussed above, because no significant increase in idling vehicular traffic will occur.

Idling vehicles do not generally occur when intersections operate at Levels of Service A, B or C, as "delay" times are limited. The intersections compiled in the traffic impact study show that once construction is finished, all intersections will operate at LOS's of A, B and C.

The New York State Procedures Manual (EPM), Chapter 1, page 14, states that new developments impacting intersections with LOS D, E or F may require an air quality analyses modeling. A preliminary Traffic Impact Study by John Collins Engineers, P.C. found that all major intersections in a 2.5 mile radius currently operate at a LOS of A, B or C, thus air quality modeling analysis is not required.

### **3.0 CONCLUSION**

The first level of “air quality screening” as provided in NYSDOT’s Environmental Procedures Manual (EPM) is a traffic analysis consistent with the Highway Capacity Manual (HCM). The analysis was provided by John Collins Engineers, P.C. in July 2007. Traffic was analyzed for the current condition (2007) and for a build and no build scenario for 2012 for 8 intersections. The EPM Chapter 1.1 provides Air Quality compliance guidance which begins with the direction that intersections be screened for overall Level of Service (LOS). If the overall LOS is A, B, or C, no further analyses (traffic, capture screening criteria or air quality modeling) are required.

The existing condition for the site’s location is mainly rural. Air quality threats for this area is usually caused by space heating and automotive traffic, more specifically ambient concentrations of carbon monoxide (CO) and total suspended particulates (TSP). High concentrations of CO and TSP typically do not occur in rural areas, such as the Town of Shawangunk. In this case, the Traffic Impact Study conducted by John Collins Engineers, P.C., show that all major intersections around the proposed construction site occur at LOS A and B with one at LOS C. Once construction is finished, LOS for same intersections are modeled to occur at A, B and C. In turn, it is expected that no increase would occur in CO or TSP, as discussed above, because no significant increase in idling, vehicular traffic will occur.



**Air Quality Analysis  
Supplement  
Watchtower Farms  
Wallkill, New York  
August 2008**



ENVIRONMENTAL CONSULTING

225 MAIN STREET – SUITE 205, NORTHPORT, NY 11768  
631-261-7170 FAX: 631-261-7454  
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The following comments have been received in response to the Air Quality analysis submitted for the Proposed Action in April 2008. Responses to each comment follow immediately.

- **1. Air Quality Comment:** *For Ulster County - provide a statement and supporting data as to whether measured air quality as determined by the Federal contaminant criteria (ozone, coarse particulate matter, fine particulate matter, carbon monoxide, sulfur dioxide, nitrogen oxide and lead) are within National Ambient Air Quality Standard attainment for each of the contaminant criteria.*
- **Response:** In the April 2008 Air Quality Analysis for the Proposed Action, Section 1.3, page 5, it was explained that the *Total Suspended Particulates* ( TSP a.k.a., coarse particulates) has been replaced (monitoring of TSP ceased in 1998 and reporting of same ended in 2001 – that is, the TSP standard no longer exists) by the standards related to sub-10 micron, inhalable fraction of airborne particulate matter. This standard is the PM 2.5 (sub-2.5 micron, inhalable fraction) The April 2008 Air Quality Analysis stated, “The nearest PM10 station is in Newburgh with a three year average of 10.7  $\mu\text{m}^3$  versus a standard of 15  $\mu\text{m}^3$ .” These were actually the PM2.5 results from the 2006 NYSDEC annual air monitoring report. However, since the issuance of the DEIS to the Town, the 2007 New York State Annual Air Quality Monitoring Report has been issued. The 2007 results from the Newburgh station still demonstrate compliance with NAAQS with a three year average of 10.8  $\mu\text{m}^3$  and a one year average of 10.6  $\mu\text{m}^3$  versus a standard of 15  $\mu\text{m}^3$ .
- In the April 2008 Air Quality Analysis for the Proposed Action, Section 1.3, page 4, *Carbon Monoxide* was enumerated as having a one hour standard of 35 parts per million (ppm) and an eight hour standard of 9 ppm. On page 4 of the same document, it stated, “The closest representative CO monitoring occurred in Loudonville, New York which demonstrated peak levels of 1.5 ppm for the one hour average and an average of 1.1 ppm in the eight hour condition. These measurements are well within the CO standards.” Since the issuance of the DEIS to the Town, the 2007 New York State Annual Air Quality Monitoring Report has been issued. The 2007 results from the Loudonville station still demonstrate compliance with NAAQS for CO. That is, the Loudonville, New York CO station demonstrated peak levels of 1.5 ppm for the one hour average and an average of 1.0 ppm in the eight hour condition. These measurements are again well within the CO standards.
- In regard to *sulfur dioxide*, the results from Mount Ninham are the highest in Region 3 for 2007. The results were an annual average (arithmetic) of 1.5 parts per billion (ppb).



This readily complies with a NAAQS of 300 ppb. Additionally, no three hour averages exceeded the 500 ppb NAAQS (the closest was 19 ppb) and no 24 hour averages exceeded the 140 ppb NAAQS (the closest was 9 ppb).

- In regard to *nitrogen dioxide*, the closest representative monitoring occurred in Nassau County, New York. The results were an annual average (arithmetic) of 18 parts per billion (ppb). This readily complies with a NAAQS of 50 ppb and the SAAQS of 53 ppb\*.
- In regard to *lead*, a monitoring station occurs in Wallkill, New York. The results were a quarterly average of  $0.03 \mu/m^3$  versus a standard of  $1.5 \mu/m^3$ . This readily complies with the NAAQS for lead.
- In regard to ozone, it is the only “priority pollutant” which exceeds its NAAQS in NYSDEC Region 3. This condition occurs state-wide and is considered a national and state transport issue. That is, ground level ozone is generated by hydrocarbon catalysts transported over wide areas. New York State’s ozone NAAQS exceedances are generated by hydrocarbons emitted in the Mid-western United States and Central Canada. The ozone standard is that no more than three 8 hour periods shall exceed 0.08 ppm for a three year period. In 2006 this was the case at all three stations (Millbrook, Mount Ninham and Belleayre Mountain). However, in 2005 all the stations exceeded this level for one day at a high of 0.096 ppm and in 2007, the Mount Ninham station exceeded this level on one day at a high of 0.086 ppm
- **2. Air Quality Comment:** *Provide a statement as to what year of data is being presented for carbon monoxide and total suspended particulates.*
- **Response:** The data provided in the April 2008 report were from 2006. The data presented above have been update to 2007 as the 2007 New York State Annual Air Quality Monitoring Report has been issued in the interim.

\* In the case of nitrogen dioxide, the State Ambient Air Quality Standard (SAAQS) is slightly lower than the NAAQS. As such, it is enumerated here. If the NAAQS and SAAQS are the same, the NAAQS has been the reference standard.

- **3. Air Quality Comment:** *In the context of carbon monoxide levels and “hot-spots” the statement is made on page 6 of Air Quality Study: “Unacceptable levels of air pollution from automobile emissions and local exceedances of air quality standards can only occur at unacceptable “Levels of Service” (LOS), D, E and F.” Provide supporting documentation and standard of reference for this statement.*
- **Response:** New York State Department of Transportation Environmental Procedures Manual, Chapter 1.1 Section 9, A, I-1 Level of Service (LOS) Screening states, “Intersections impacted by a project, with a build Estimate Time of Completion [i.e., the build year]...LOS of only A, B or C, are generally excluded from air quality analysis.” The general concepts which resulted in above guidance from NYSDOT are enumerated on page 6 in the April 2008 Air Quality Analysis for the Proposed Action.



# APPENDIX 12

## *Easements of Record and Shawangunk Recreational River Corridor Narrative Package*



**Discussion of Easements of Record and the  
Shawangunk Kill Recreational River Corridor Adjacent to  
Watchtower Farms Improvements**

**Project Site Located On  
Tax Map Section 99.004, Block 1, Lot 11**

**Town of Shawangunk, Ulster County  
New York**

**May 16, 2008**

**Prepared by:  
Richard I. Eldred, P.E.  
2891 Route 22, Patterson, New York 12563**



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- 1.2 Project Description
- 1.3 Location of Existing Development
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- 2.2 County of Ulster, Clerks Office
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## **1.0 Introduction**

### **1.1 Purpose of Document**

The purpose of this narrative is to discuss any potential impact that easements of record may have on the proposed project for Watchtower Farms Improvements and to discuss any potential impact of the project on the Shawangunk Kill Recreational River Corridor. Two drawings, C-107A and C-108A, entitled “Recreational River Corridor and Easement Map,” have been prepared to show encumbrances of record on the proposed site. Drawing C-107A lists the easements of record as granted by current and former owners of the property to various individuals and corporations. Both drawings also indicate the portion of the recreational river corridor, as established in the NYSDEC code, that lies on the applicant’s parcel.

### **1.2 Project Description**

The Applicant, Watchtower Bible and Tract Society of New York, Inc., seeks from the Town of Shawangunk a Special Use Permit and Site Plan Approval for 300 multiple family dwellings to be constructed in a three (3) story residential building attached to an existing residential building. The Applicant also proposes to construct and expand various ancillary uses including but not limited to a two (2) story parking garage with 400 spaces, three (3) story accessory building with basement, recreation building, technical equipment building, with proposed additions to existing dining room and laundry and dry cleaning buildings.

### **1.3 Location of Existing Development**

The existing development is centered within the Watchtower Farms residential campus complex on the northwesterly side of Red Mills Road. This section of Red Mills Road lies between Bruyn Turnpike and Steen Road in the Town of Shawangunk, Ulster County, New York. The property is identified on the Town of Shawangunk tax maps as Section 99.004, Block 1, Lot 11 (900 Red Mills Road).

### **1.4 Location of Proposed Development**

The proposed development is situated on a portion of the Applicant’s 1,141 +/- acre landholding. The application involves land already developed within the Watchtower Farms residential campus complex, except some disturbance of lands currently in agricultural or vacant use can be anticipated at the periphery of the proposed development area. As per the Town of Shawangunk zoning law, the property is zoned Residential Agricultural (RAG-4). The proposed development lies on the northwesterly side of Red Mills Road.

### **1.5 SEQRA Review**

The Town of Shawangunk Planning Board, as lead agency for the coordination of the State Environmental Quality Review [SEQRA], determined that the proposed development is a Type I Action with the requirement to prepare a Draft Environmental Impact Study [EIS].

## **2.0 Resources**

### **2.1 Title Insurance Policies**

Easements of record are based on the following title searches and insurance policies:

The Title Guarantee Company  
Policy # 9003326 Parcel known as "NY-5" January 14, 1963

Commonwealth Land Title Insurance Company  
Policy # 207-622013 Parcel known as "NY-6" May 8, 1996

Commonwealth Land Title Insurance Company of New York  
Policy # NY U-60001-CC Parcel known as "NY-7" July 1, 1968

The Title Guarantee Company & Pioneer National Title Insurance Company  
Policy # 9006728 Parcel known as "Seaman" July 9, 1971

### **2.2 County of Ulster, Clerks Office**

Records in the Ulster County Clerks office were referenced to research any potential encumbrances to the project area. These records included deed books and grantor and grantee indexes.

### **2.3 NYSDEC Office**

A map and a management program are available for inspection at the NYSDEC Region 3 office in New Paltz. The map with the title "Shawangunk Kill Final Corridor Boundary," dated August 1994, was used to determine the boundary of the corridor.

## **3.0 Discussion of Findings**

### **3.1 Utility Easements**

The majority of the easements, rights of way, etc., are granted to utility companies for installation and maintenance of poles, lines and guy wires "in, upon, over, under and across lands". Inspection of the existing installations shows the easements to be established along the front of the Watchtower property where it meets the road bed. Most of these easements are to be extinguished and consolidated into a comprehensive description encompassing new poles and guy wires as installed in May of 2007 and represented on the above mentioned drawings, C-107A and C-108A. These easements do not conflict with any of the installations proposed in the "Watchtower Farms Improvements" package, nor do they inhibit the use of the property for purposes of cultivation, pasture or maintenance.

### **3.2 Additional Privileges Granted**

Rights and privilege to build a dam on the Shawangunk Kill was granted to Edward and Amelia Edwards and heirs and assigns. These rights apply to the property currently owned by Bienstock. Construction of any dam is not to impact any upstream property and will therefore not impact any of the proposed installations.

The right of way granted to Florence Reis in book 574, page 556 does not apply to any of the lands of Watchtower.

The right of way granted to Bert and Violet Lockwood in book 724, page 346 applies to the access road currently know as "Paradise lane". Rights to this lane were also granted to Valley Farms Corporation in book 1693, page 34. This right of way does not impact any of the proposed installations.

The right of way granted to Arthur and Marguerite Penny in book 876, page 276 was extinguished upon conveyance of the property or death of the grantees.

### 3.3 Shawangunk Kill Recreational River Corridor

#### 3.3.1 Location

Per Article 15, Title 27, Section 15-2711, 6 NYCRR Part 666, the Shawangunk Kill River is designated a Recreational River from the border of Ulster and Orange Counties to its confluence with the Wallkill River. The river area affected is the immediate environs as established by the commissioner of the Department of Environmental Conservation. Mr. Douglas Sheppard, Albany office of the NYSDEC and Mr. Alex Ciesluk, NYSDEC Region 3 office in New Paltz were contacted on June 6, 2007 regarding the DEC Recreational Rivers Program.

Mr. Sheppard explained that the Final Corridor Boundary was adopted in August 1994. A map and a management program are available for inspection at the NYSDEC Region 3 office in New Paltz. Mr. Ciesluk provided a copy of the map, entitled "Shawangunk Kill Final Corridor Boundary," dated August 1994, which is also attached to this appendix.

#### 3.3.2 NYSDEC Map

A review of said "Shawangunk Kill Final Corridor Boundary" map and drawing C-107A "Recreational River Corridor and Easement Map" shows that the proposed development does not fall within the corridor. A metes and bounds description of the portion of the corridor on the applicant's parcel is as follows:

"The northwesterly Shawangunk Kill River corridor boundary begins at the southwesterly corner of Clark Tax ID 99.4-1-30 at Bruyn Turnpike; thence along the westerly line of said parcel and Watchtower Tax ID 99.4-1-11 for a total of 2270 feet more or less to a corner; thence across said Watchtower Lot 11 to the center of Red Mills Road at the southwesterly corner of the former Wallace lot [part of Tax ID 99.4-1-27] being a distance of 1524 feet more or less; thence northeasterly along the center of Red Mills road 1375 feet more or less to a point ; thence leaving Red Mills Road southeasterly 400 feet more or less to a point; thence northeasterly 1440 feet more or less parallel to Red Mills Road to a point; thence

northwesterly 400 feet more or less to the center of Red Mills Road to a point; thence continuing northwesterly 560 feet to a point; thence northeasterly 750 feet more or less to the centerline of Steen Road; thence southeasterly along Steen Road to the intersecting centerline of Red Mills Road.”

### 3.3.3 Jurisdiction within the Shawangunk Kill Final Corridor

The NYSDEC, in its letters of January 25, 2008 and February 21, 2008, noted that portions of the Watchtower property are part of the Shawangunk Kill (NYS Waters Index # H-139-13-19) Wild, Scenic and Recreational River (WSRR) corridor. A request was made that a discussion and plan be included in the DEIS to identify the corridor boundaries on the parcel, and address any impacts proposed within those boundaries in order to determine the need for a NYSDEC Part 666 permit.

It should be noted that the proposed activities are outside of the river corridor boundary with the possible exception of a visual screening earthen berm that is set back approximately 1100 feet from the stream bank.

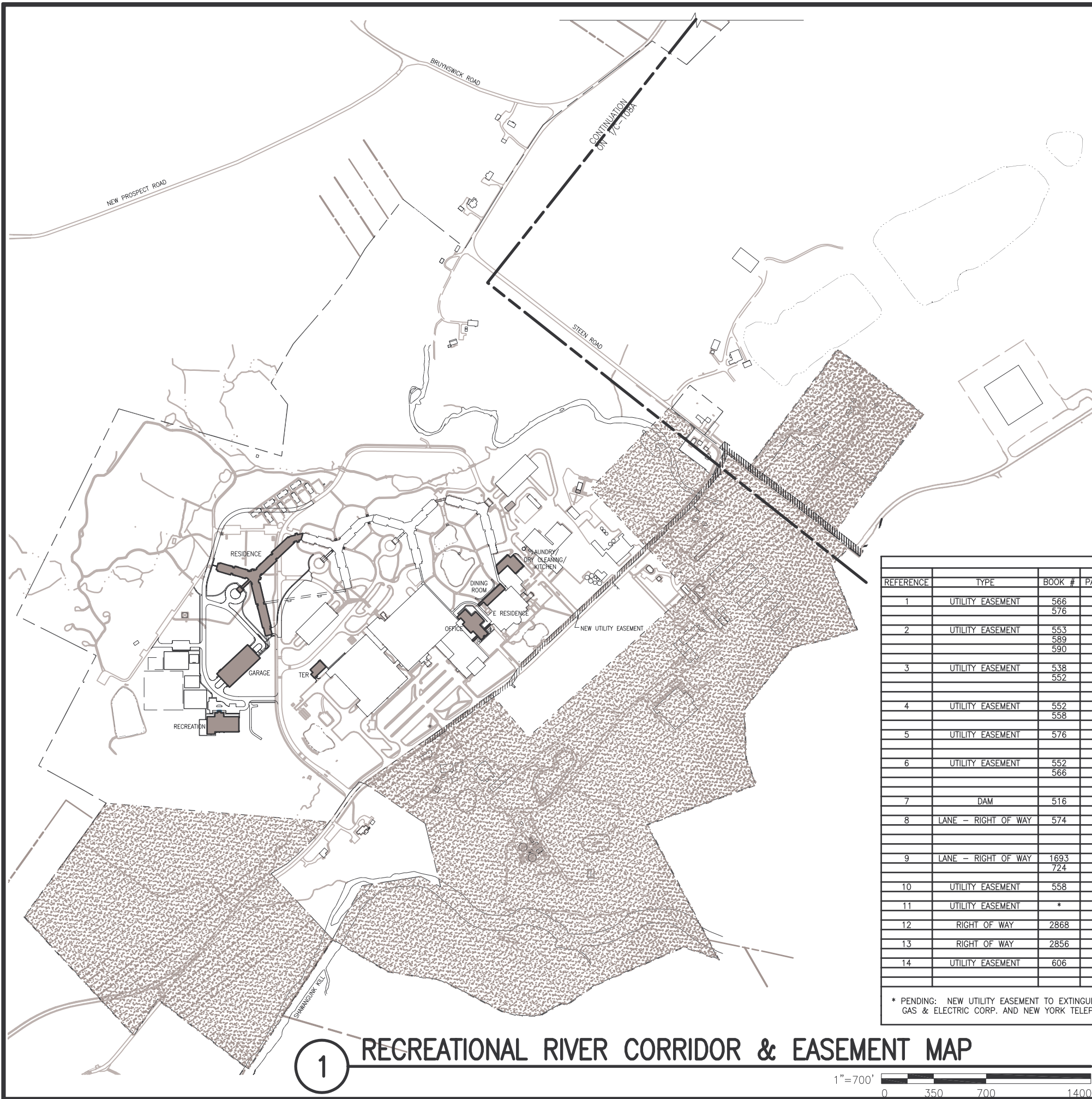
### 3.3.4 Potential Impacts by Proposed Development

- Land Disturbance - The proposed development is outside of the river corridor. The proposal involves land already developed within the Watchtower Farms residential campus complex, except some disturbance of lands currently in agricultural or vacant use can be anticipated at the periphery of the proposed development area.
- Stormwater - Some increase in stormwater runoff is anticipated both during construction and upon project completion due to a slight increase in impervious surfaces.
- Construction - During construction some ground cover will be temporarily removed.

### 3.3.5 Mitigation Measures Incorporated into the Proposed Development

- Location - The project is located outside of the river corridor boundary. It involves land already developed within the Watchtower Farms residential campus complex with minor disturbance of lands in agricultural or vacant use at the periphery of the proposed development area.
- Stormwater Measures – Please see Appendix 13 for the erosion and sediment control plan and stormwater pollution prevention plan for the proposed development area. The proposed development area is north of Red Mills Road and outside of the Shawangunk River Recreational corridor. The intent is to contain sediment at the site and to design the rate of post-construction runoff to be no greater than pre-construction runoff.
- Land Disturbance During Construction - The amount of land disturbed during construction will be subject to the erosion and sediment control measures outlined in the plan kept on site as noted in Appendix 13.

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**LEGEND**

----- PROPERTY LINE

////// UTILITY EASEMENT

Final Recreational River Corridor Boundary

EASEMENTS OF RECORD					
REFERENCE	TYPE	BOOK #	PAGE #	GRANTOR	GRANTEE
1	UTILITY EASEMENT	566 576	195 476	IDA M. MANCE	CENTRAL HUDSON GAS & ELECTRIC CORP. NEW YORK TELEPHONE CO.
2	UTILITY EASEMENT	553 589 590	280 109 268	PATRICK J. O'NEILL	CENTRAL HUDSON GAS & ELECTRIC CORP. NEW YORK TELEPHONE CO. NEW YORK STATE ELECTRIC & GAS CORP.
3	UTILITY EASEMENT	538 552	449 121	JOHN MEREDITH SR.	CENTRAL HUDSON GAS & ELECTRIC CORP. NEW YORK TELEPHONE CO.
4	UTILITY EASEMENT	552 558	115 336	ABNER H. BIRCH LOTTIE W. BIRCH	CENTRAL HUDSON GAS & ELECTRIC CORP. WALDEN TELEPHONE CO.
5	UTILITY EASEMENT	576	472	EDWARD L. GOEBEL SADIE GOEBEL	CENTRAL HUDSON GAS & ELECTRIC CORP. NEW YORK TELEPHONE CO.
6	UTILITY EASEMENT	552 566	119 198	JOHN C. HANSEN HELENA M. SCHWARTZ AMELIA C. HANSEN	CENTRAL HUDSON GAS & ELECTRIC CORP.
7	DAM	516	467	JOHN MEREDITH	EDWARD B. & AMELIA F. EDWARDS
8	LANE - RIGHT OF WAY	574	556	WILLIAM B. MEREDITH FRED W. MEREDITH JOHN M. MEREDITH	FLORENCE L. REIS
9	LANE - RIGHT OF WAY	1693 724	34 346	WATCHTOWER EMILY BERTHA VANDERESSEN	VALLEY FARMS (2/24/87) BERT & VIOLET LOCKWOOD (1/14/49)
10	UTILITY EASEMENT	558	316	DAVE A. BRUNDAGE	CENTRAL HUDSON GAS & ELECTRIC CORP.
11	UTILITY EASEMENT	*	*	WATCHTOWER	CENTRAL HUDSON GAS & ELECTRIC CORP.
12	RIGHT OF WAY	2868	106	TOWN OF SHAWANGUNK	WATCHTOWER
13	RIGHT OF WAY	2856	233	WATCHTOWER	TOWN OF SHAWANGUNK
14	UTILITY EASEMENT	606	423	ANDREW BURKINSHAW JEANNETTE I. BURKINSHAW	NEW YORK STATE ELECTRIC & GAS CORP.

\* PENDING: NEW UTILITY EASEMENT TO EXTINGUISH UTILITY EASEMENTS OR RECORD FOR CENTRAL HUDSON GAS & ELECTRIC CORP. AND NEW YORK TELEPHONE CO. FOR AREAS COVERED BY NEW UTILITY EASEMENT

**1 RECREATIONAL RIVER CORRIDOR & EASEMENT MAP**

1" = 700'

0 350 700 1400

**WATCHTOWER**  
 BIBLE & TRACT SOCIETY  
 OF NEW YORK, INC.  
 25 COLUMBIA HEIGHTS  
 BROOKLYN,  
 NEW YORK, 11201

MARK:	DATE:	DESCRIPTION:
-------	-------	--------------

OWNER:  
**WATCHTOWER BIBLE & TRACT SOCIETY**  
 25 COLUMBIA HEIGHTS  
 BROOKLYN, NY 11201

ACCOUNT No.  
 PROJECT TITLE:  
**WATCHTOWER FARMS IMPROVEMENTS**  
 RED MILLS RD  
 WALLKILL, NY

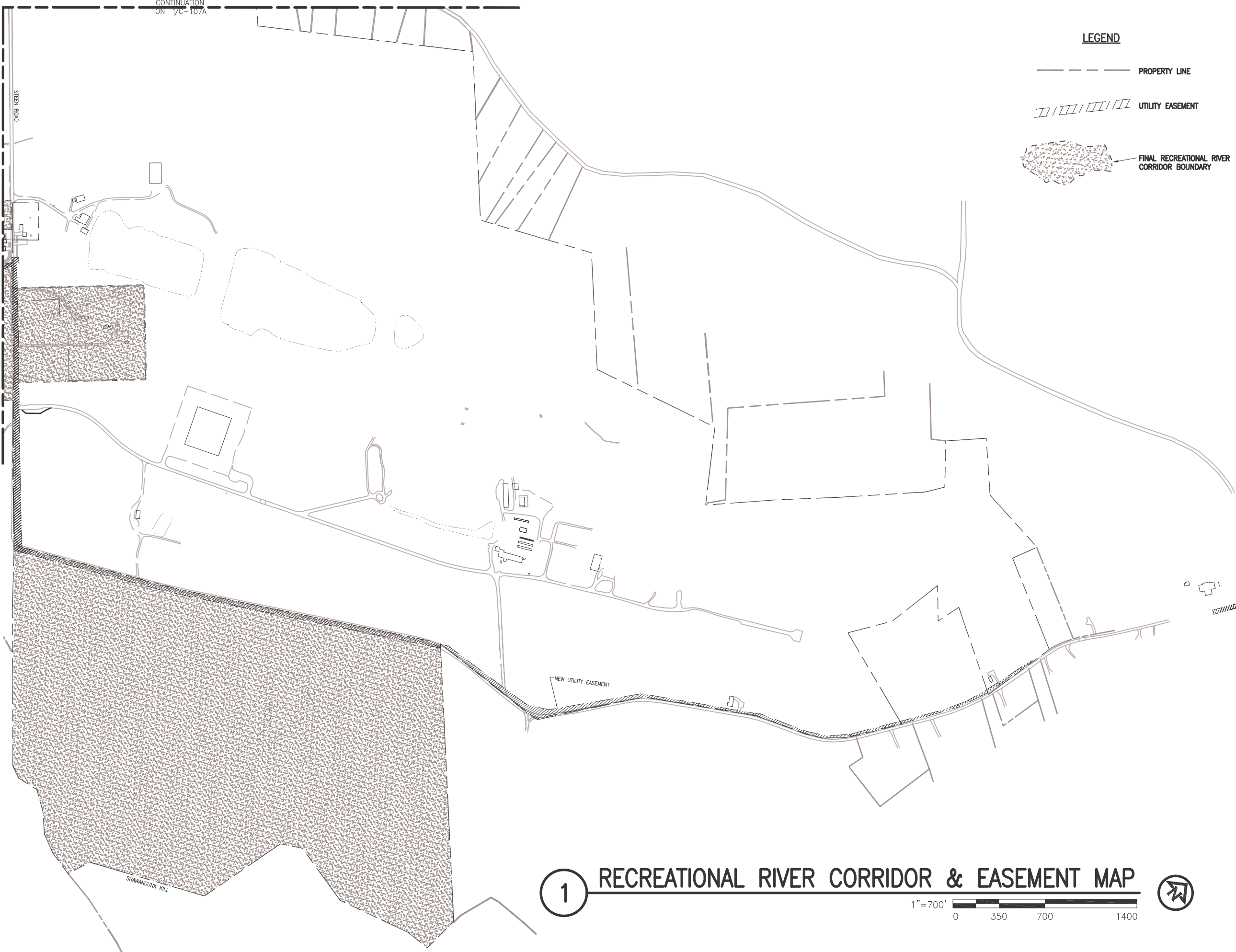
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**RECREATIONAL RIVER CORRIDOR & EASEMENT MAP**

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CONTINUATION  
ON 1/C-107A



**LEGEND**

- PROPERTY LINE
- ////// UTILITY EASEMENT
- Final Recreational River Corridor Boundary

**WATCHTOWER**  
BIBLE & TRACT SOCIETY  
OF NEW YORK, INC.  
25 COLUMBIA HEIGHTS  
BROOKLYN,  
NEW YORK, 11201

MARK:	DATE:	DESCRIPTION:

OWNER:  
**WATCHTOWER BIBLE & TRACT SOCIETY**  
25 COLUMBIA HEIGHTS  
BROOKLYN, NY 11201

ACCOUNT No.  
PROJECT TITLE:  
**WATCHTOWER FARMS IMPROVEMENTS**  
RED MILLS RD  
WALLKILL, NY

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**RECREATIONAL RIVER CORRIDOR & EASEMENT MAP**

PROJECT No.  
**WWKLO193**

SHEET No.  
**C-108A**

1

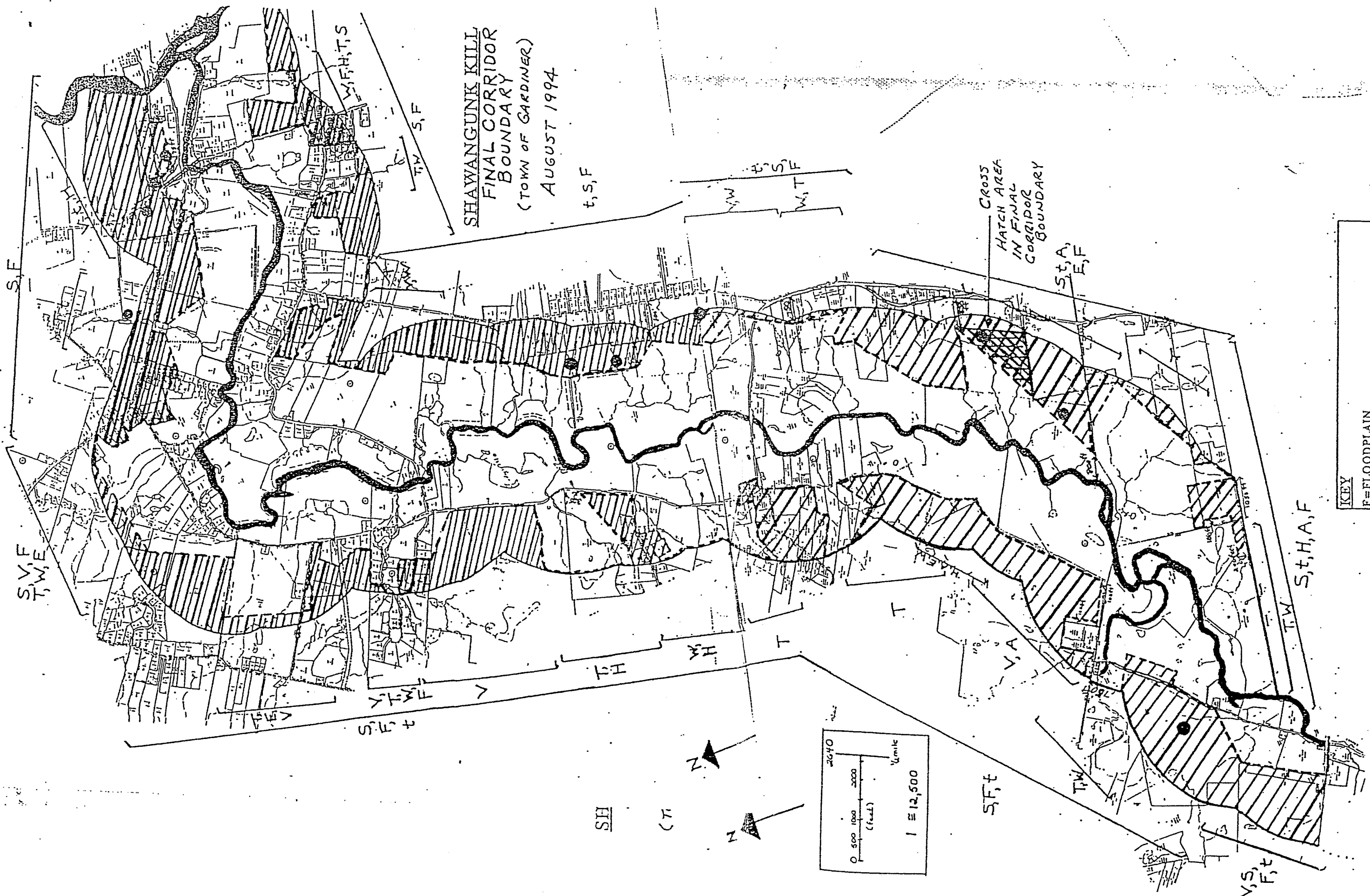
**RECREATIONAL RIVER CORRIDOR & EASEMENT MAP**

1" = 700'  
0 350 700 1400









SHAWANGUNK KILL  
FINAL CORRIDOR  
BOUNDARY  
(TOWN OF GARDINER)  
AUGUST 1994

CROSS AREA  
HATCH AREA  
IN FINAL  
CORRIDOR  
BOUNDARY

KEY	
	F=FLOODPLAIN
	S=LIMITING SOILS
	T=TRIBUTARY, STREAM
	I=STREAM, DRAINAGE
	W=WETLAND
	H=HISTORIC SITES
	A=ARCHAEOLOGIC SITES
	V=VISTA OR SIGNIFICANT VIEW
	E=ENDANGERED, RARE OR SPECIAL CONCERN SPECIES/HABITAT (Only Confirmed Indicated)

	1/2 MILE RIVER CORRIDOR
	PROPOSED FINAL RIVER CORRIDOR BOUNDARY
	SPECIAL REVIEW RECOMMENDED



In consideration of the sum of One Dollar and other valuable considerations, the receipt whereof from Central Hudson Gas and Electric Corporation is hereby acknowledged, the undersigned hereby grants and conveys unto said corporation, its successors and assigns, an easement and right of way in, upon, over, under and across the lands of the undersigned including the roads and highways thereon and adjacent thereto, situate in the Town of Chawangunk County of Ulster, State of New York on the Dwaarkill-Bruynswick Cross Road.

Together with the right at all times to enter thereon and have access thereto and to construct, relocate, operate and maintain thereon, and to repair, replace, protect and remove a line of poles, cables, crossarms, guys, braces, underground conduits and all other appurtenances or fixtures adapted to the present or future needs, uses and purposes of said corporation its successors, assigns and lessees.

Together with the right also to attach guy wires to trees on said property, and to trim, cut and remove trees and other objects thereon so as to provide a clearance of 6 feet from the property of the corporation.

Said easement and line shall extend from the property line of Hanson & Schwarz on the West to the property line of Mrs. Louisa E. M. Quell

The exact location of said easement and line to be as determined by said corporation having regard to the origin, general direction and destination of said line and the

requirements of said corporation.

Provided, however, that this right of way shall be void and of no effect unless construction hereunder is commenced on the property covered hereby on or before one year from the date hereof.

The provisions hereof shall apply to and bind the heirs, legal representatives, successors, assigns, and lessees of the undersigned and of said corporation respectively.

Signed, sealed and delivered, on July 19, 1933.  
In the presence of:  
John MacLorton

Ida Mance (L.S.)

STATE OF NEW YORK:  
COUNTY OF ULSTER :SS.:

On this 19 day of July 1933, before me personally came

--- JOHN MAC HORTON ---

with whom I am personally acquainted, to me known and known to me to be the subscribing witness to the foregoing instrument, who, being by me duly sworn, did depose and say that he resides in New Paltz, that he is personally acquainted with Miss Ida Mance and knows said person to be the person described in and who executed the foregoing instrument; that he, the said subscribing witness, was present and saw the said person execute the same and that she duly acknowledged to him, the said subscribing witness, that she executed the same and that he thereupon subscribed his name as witness thereto.

Cora J. Lawrence  
Notary Public

A true record entered  
July 29, 1933 at 9-40 A. M.

566 4195

*[Signature]* Clerk.

In consideration of the sum of One Dollar (\$1.00) and other valuable considerations, the receipt whereof from Central Hudson Gas and Electric Corporation, AND NEW YORK TELEPHONE COMPANY is hereby acknowledged, the undersigned hereby grants and conveys unto said corporations, and either of them, their respective successors, assigns and lessees, an easement and right-of-way in, upon, over, under and across the lands of the undersigned including the roads and highways thereon and adjacent thereto, situate in the Town of Woodstock County of Ulster, State of New York, along the Birdcliff-Shady Road at Bearsville

In consideration of the sum of One Dollar (\$1.00), and other valuable considerations, the receipt whereof from Central Hudson Gas and Electric Corporation, 220 New York Tel. Co., is hereby acknowledged, the undersigned hereby grants and conveys unto said corporations and either of them, their respective successors, assigns and lessees, an easement and right-of-way, in, upon, over, under and across the lands of the undersigned including the roads and highways thereon and adjacent thereto, situate in the town of Shawanunk, county of Ulster, State of New York,

Together with the right at all times to enter thereon and have access there to and to construct, relocate, operate and maintain thereon, and to repair, replace, protect and remove a line of poles including cables, wires, cross arms, guys, braces, underground conduits and all other appurtenances or fixtures adapted to the present or future needs, uses and purposes of said corporations, their respective successors, assigns and lessees.

Together with the right also to attach guy wires to trees on said property, and to trim, cut and remove trees and other objects thereon so as to provide a clearance of 6 feet from the property of said corporations.

Said easement and line shall extend from the property line of Louise Wance & Ed Coebel on the west to the property line of Ed Coebel & Jean Vern on the north.

The exact location of said easement and line to be as determined by said corporations having regard to the origin, general direction and destination of said line and the requirements of said corporations.

Provided, however, that this right of way shall be void and of no effect unless construction hereunder is commenced on the property covered hereby on or before one year from the date hereof.

The provisions hereof shall apply to and bind the heirs, legal representatives, successors, assigns and lessees of the undersigned and of said corporations respectively.

Signed, sealed and delivered on May 27, 1935.

In the presence of:  
J. A. Dolan

Ida M. Wance (L.S.)

STATE OF NEW YORK:  
COUNTY OF ULSTER:SS.

On this 22nd day of May, 1935, before me, personally came,

---- J. R. DOLAN ----

with whom I am personally acquainted, to me known and known to me to be the subscribing witness to the foregoing instrument, who, being by me duly sworn, did depose and say that he resides in New Paltz, that he is personally acquainted with Ida Wance and knows said person to be the person described in and who executed the foregoing instrument; that he, the said subscribing

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witness, was present and saw the said person execute the same and that he severally duly acknowledged to him, the said subscribing witness, that he executed the same and that he thereupon subscribed his name as witness thereto.

John J. Gibbons,  
Notary Public.

A true record entered  
July 19, 1935, at 9 A. M.

*John J. Gibbons* Clerk.

*H. M. D.  
J. M. D.  
B. B.*

In consideration of the sum of One Dollar (\$1.00) and other valuable considerations, the receipt whereof from Central Hudson Gas and Electric Corporation, 220 New York Telephone ..... is hereby acknowledged, the undersigned hereby grants and conveys unto said corporations, and either of them, their respective successors, assigns and lessees, an easement and right of way, in, upon, over, under and across the lands of the undersigned including the roads and highways thereon and adjacent thereto, situate in the town of Shawanunk, county of Ulster, State of New York,

A true record entered  
July 19, 1935, at 9 A. M.

Roy L. Clearwater,  
Notary Public  
Certificate filed in Ulster County.

*[Signature]* Clerk.

In consideration of the sum of One Dollar (\$1.00), and other valuable consid-  
erations, the receipt whereof from Central Hudson Gas and Electric Corporation, LTD New York  
Tel. Co., is hereby acknowledged, the undersigned hereby grants and conveys unto said corporations  
and either of them, their respective successors, assigns and lessees, an easement and right of  
way, in, upon, over, under and across the lands of the undersigned including the roads and  
highways thereon and adjacent thereto, situate in the town of Shawarunk, county of Ulster, State  
of New York,

Together with the right at all times to enter thereon and have access there to  
and to construct, relocate, operate and maintain thereon, and to repair, replace, protect and  
remove a line of poles including cables, wires, cross arms, guys, braces, underground conduits  
and all other appurtenances or fixtures adapted to the present or future needs, uses and purposes  
of said corporations, their respective successors, assigns and lessees.

Together with the right also to attach guy wires to trees on said property,  
and to trim, cut and remove trees and other objects thereon so as to provide a clearance of 6  
feet from the property of said corporations.

Said easement and line shall extend from the property line of Louise Wance &  
Ed Soebel on the west to the property line of Ed Soebel & Jean Bern on the north.

The exact location of said easement and line to be as determined by said  
corporations having regard to the origin, general direction and destination of said line and the  
requirements of said corporations.

Provided, however, that this right of way shall be void and of no effect  
unless construction hereunder is commenced on the property covered hereby on or before one year  
from the date hereof.

The provisions hereof shall apply to and bind the heirs, legal representatives,  
successors, assigns and lessees of the undersigned and of said corporations respectively.

Signed, sealed and delivered  
on May 27, 1935.

In the presence of:  
J. A. Dolan

Ida M. Wance (L.S.)

STATE OF NEW YORK:  
COUNTY OF ULSTER 1935:

On this 27th day of May, 1935, before me, personally came,

---- J. R. DOLAN ----

with whom I am personally acquainted, to me known and known to me to be the subscribing witness  
to the foregoing instrument, who, being by me duly sworn, did depose and say that he resides in  
New Paltz, that he is personally acquainted with Ida Wance and knows said person to be the  
person described in and who executed the foregoing instrument; that he, the said subscribing

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witness, was present and saw the said person execute the same and that he severally duly  
acknowledged to him, the said subscribing witness, that he executed the same and that he  
thereupon subscribed his name as witness thereto.

John J. Gibbons,  
Notary Public.

A true record entered  
July 19, 1935, at 9 A. M.

*[Signature]* Clerk.

*[Handwritten initials]*

--- E. W. SNYDER (subscribing witness) ---  
with whom I am personally acquainted, to me known and known to me to be the subscribing witness to the foregoing instrument, who, being by me duly sworn, did depose and say that he resides in Kingston, N. Y., that he is personally acquainted with

--- Wm. Mc Kenna & JULIA McKENNA ---  
and knows said persons to be the persons described in and who executed the foregoing instrument; that he, the said subscribing witness, was present and saw the said persons execute the same and that they (severally) duly acknowledged to him, the said subscribing witness, that they executed the same and that he thereupon subscribed his name as witness thereto.

Wm. A. Lennon,  
Notary Public.

A true record entered  
August 7, 1931 at 9 A.M.

*J. Simpson*

Clerk.

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In consideration of the sum of \$1.00 paid to the undersigned by CENTRAL HUDSON GAS AND ELECTRIC CORPORATION, a corporation of the State of New York and having its principal office at 50 Market Street, Poughkeepsie, State of New York, AND THE NEW YORK TELEPHONE COMPANY, a corporation of the State of New York and having its principal office at 140 West Street, N. Y. C., in the State of New York and at 281 Washington St., Newark in the State of New Jersey the receipt of which is hereby acknowledged, the undersigned hereby grants unto the said corporations, and either of them, their respective successors, assigns and lessees, a right of way and the right to construct, operate, relocate and maintain, and to repair, inspect and remove line of poles for present and future needs, including cables, wires, cross-arms, guys, braces, anchors and other fixtures, upon highways adjoining or upon, and in, over and upon the property which \_\_\_\_\_ own or in which \_\_\_\_\_ have an interest situate in the Town of Shawangunk, County of Ulster State of New York, said line to be located as specified on the South side of Lwaarkill Road, (right to install one tree guy), together with the right to cut and trim any trees along said line and to keep the wires cleared 6 feet, and to attach to trees on said property and on the highways which adjoin or are upon said property, such guy wires as said Corporations, or either of them, may deem necessary.

The provisions hereof shall apply to and bind the heirs, legal representatives, successors, assigns and lessees, of the undersigned and said Corporations respectively.  
Signed, sealed and delivered on April 13, 1931.

in the presence of  
H. B. Hewitt  
STATE OF NEW YORK,  
COUNTY OF ULSTER,

Patrick J. O'Neill

(L.S.)

} SS.: On this 13th day of April, 1931 before me personally came  
--- H. B. HEWITT, (subscribing witness) ---  
with whom I am personally acquainted, to me known and known to me to be the subscribing witness to the foregoing instrument, who, being by me duly sworn, did depose and say that he resides in City of Newburgh, that he is personally acquainted with --- PATRICK J. O'NEILL --- and knows said person to be the person described in and who executed the foregoing instrument; that he, the said subscribing witness, was present and saw the said person execute the same and that he duly acknowledged to him, the said subscribing witness, that he executed the same and that he thereupon subscribed his name as witness thereto.

C. D. Ewing,  
Notary Public, Orange County,  
Certificate filed in Ulster County.

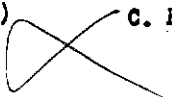
A true record entered  
August 7, 1931 at 9 A.M.

*J. Simpson*

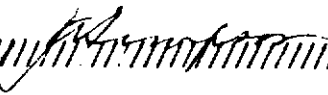
Clerk.

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IN TESTIMONY WHEREOF, I have hereunto subscribed my name, and affixed the seal of the said Courts and County, at Goshen, this 1st day of July, 1937.

(Seal)  C. E. Dusenberry, Clerk.

A true record entered  
July 3, 1937, at 9 A. M.

//////////////////////////////////////  Clerk

Central Hudson Gas & Electric Corporation,  
Poughkeepsie, New York.

New York Telephone Co.  
Kingston, N.Y.

Gentlemen:

In order to assist in the extension of electric and telephone service in the vicinity, the undersigned grants an easement to the Central Hudson Gas & Electric Corporation for an electric pole line and to New York Telephone Co. for a telephone pole line on his land, including the highways through or next to it, located in the Town of Shawangunk, Ulster County, New York.

This easement shall extend from the property line of Andes on the north in a southerly direction to the property line of Sneller & Polyshuck on the south in which location the Central Hudson Gas & Electric Corporation may construct, operate and maintain an electric line, and /or New York Telephone Co. may construct, operate and maintain a telephone line, including the poles, wires, guys and other equipment required and may trim or remove trees so as to provide a clearance of 10 feet from their wires. In the event that both electric and telephone wires are placed across the said property, they shall be placed on the same poles.

The exact location of this easement and line is to be determined initially with due regard both to the requirements of the said corporations and the interest of the undersigned in retaining the use of the land for the purposes to which it is now devoted, insofar as this is possible, and the line will be afterwards removed if it materially interferes with any other use to which the land may be subsequently devoted provided that a new location reasonably suitable for the corporations' requirements is made available without cost to them.

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The central Hudson Gas & Electric Corporation and the New York Telephone Co. shall reimburse the undersigned for any damage to his property caused solely by the said corporations in repairing the line to be located on this easement.

This right shall run to the successors or assigns of the Central Hudson Gas & Electric Corporation and the New York Telephone Co. and its provisions shall apply to and bind the heirs, legal representatives, successors, assigns and lessees of the said corporations and of the undersigned respectively.

Receipt of \$1.00 in payment for this grant is acknowledged by the undersigned.

Signed, sealed and delivered  
Feb. 17, 1937  
in the presence of:  
J. K. Hallock

Patrick J. O'Neill (L.S.)

STATE OF NEW YORK:  
COUNTY OF ULSTER :SS.:

On this 17 day of Feb., 1937, before me personally came,

---- J. K. HALLOCK ----

with whom I am personally acquainted, to me known and known to me to be the subscribing witness to the foregoing instrument, who, being by me duly sworn, did depose and say that he resides in Poughkeepsie, N.Y., that he is personally acquainted with Patrick J. O'Neill and knows said person to be the person described in and who executed the foregoing instrument;



the same; and that he, said witness, at the same time, subscribed his name as witness thereto.

(E.L.L.)

Thomas Mance Jr.,  
(Notary Public).  
Notary Public for Orange County  
Certificate filed in Ulster County.

A true record entered  
Sept. 3, 1937, at 9 A. M.

*[Signature]* Clerk.

The undersigned, hereinafter called the GRANTOR, being the owner of or having an interest in land situate in the Town of Shawangunk, County of Ulster, State of New York, fronting on the street or highway known as Crawford-Awosting Road and bounded westerly by the land of Chas. Hall and easterly, by the land of William Decker

IN CONSIDERATION of \$1.00 paid by the Grantee, hereby grants and releases unto the NEW YORK STATE ELECTRIC & GAS CORPORATION, a corporation organized under the laws of the State of New York, having its principal office at Ithaca, New York, herein called the GRANTEE, its successors and assigns, the right, privilege, and authority to construct, re-construct, extend, operate, inspect, maintain, and at its pleasure, remove a pole line with the necessary wires, cross arms, guy wires, braces and other fixtures or appurtenances used or adopted for the transmission and/ or distribution of electric current for public or private use, upon and over said land and property and/ or the highways abutting or running through said land.

TOGETHER with the right to trim, cut, and remove trees and brush to the extent necessary to clear said wires and pole line by at least fifteen (15) feet.

PROVIDED, however, that any damage (other than for trimming, cutting or removing trees, as above provided) to the property of the Grantor, caused by the Grantee in constructing or repairing said line, shall be borne by the Grantee.

Dated this 29th day of July, 1937.

In Presence of-

E. H. Emerson  
(Subscribing Witness)

Patrick J. O'Neill, (L. S.)

STATE OF NEW YORK }  
COUNTY OF SULLIVAN } SS.:

On this 18th day of August, 1937, before me personally came-

-----E. H. EMERSON,-----

the subscribing witness to the foregoing Instrument, with whom I am personally acquainted, who being by me duly sworn, did depose and say that he resides in Walden, New York, that he knew Patrick J. O'Neill to be the individual described in and who executed the foregoing instrument; that he, said subscribing witness, was present and saw him execute the same; and that he, said witness, at the same time, subscribed his name as witness thereto.

William F. Haflin,  
(Notary public)  
Notary Public for Sullivan County  
Certificate filed in Ulster County.

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A true record entered  
Sept. 3, 1937, at 9 A. M.

*[Signature]* Clerk.

THE UNDERSIGNED, hereinafter called the GRANTOR, being the owner of or having an interest in land situate in the Town of Shawangunk, County of Ulster, State of New York, fronting on the street or highway known as Old Crawford Turnpike and bounded southerly by the land of Charles O. Jansen and northerly by the land of Goeller and of Joseph Polisuik.

IN CONSIDERATION of \$1.00 paid by the Grantee, hereby grants and releases unto the New York State Electric & Gas Corporation a corporation organized under the laws of the State of New York, having its principal office at Ithaca, New York herein called the GRANTEE, its successors and assigns, the right, privilege and authority to construct, re-construct, extend, operate, inspect, maintain and at its pleasure remove, a pole line with the necessary wires, cross arms, guys wires, braces and other fixtures or appurtenances used or adopted for the transmission and/ or distribution of electric current for public or private use, upon and over said land and property and/ or the highways abutting or running through said land.

TOGETHER with the right to trim, cut and remove trees and brush to the extent necessary to clear said wires and pole line by at least fifteen (15) feet.

PROVIDED, however, that any damage (other than for trimming, cutting or removing trees, as above provided) to the property of the Grantor, caused by the Grantee in constructing or repairing said line, shall be borne by the Grantee.

Dated this 30th day of April, 1937.

H. B. Hewitt

Philip B. Payn

(L.S.)

STATE OF NEW YORK;  
COUNTY OF ORANGE;SS.:

On this 18th day of December 1928 before me personally came

--- H. B. HEWITT ---  
(subscribing witness)

with whom I am personally acquainted, to me known and known to me to be the subscribing witness to the foregoing instrument, who, being by me duly sworn, did depose and say that he resides in Newburgh, N. Y. that he is personally acquainted with Philip B. Payn and knows said persons to be the persons described in and who executed the foregoing instrument; that he, the said subscribing witness, was present and saw the said persons execute the same and that he (severally) duly acknowledged to him, the said subscribing witness, that he executed the same and that he thereupon subscribed his name as witness thereto.

C. D. Ewing  
Notary Public, Orange Co.  
Certificate filed in Ulster Co.

A true record entered  
June 17, 1929 at 10:55 A. M.

*W. G. Gurdash* Clerk.

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In consideration of the sum of \$1.00 paid to the undersigned by Central Hudson Gas & Electric Corporation, the receipt whereof is hereby acknowledged, the undersigned grants and conveys unto said corporation, its successors and assigns, in perpetuity, an easement and right of way \_\_\_\_\_ feet in width throughout its extent in, upon, over and across the lands of the undersigned, including roads thereon and adjacent thereto, situated in the town of Shawangunk, County of Ulster State of New York, the exact location thereof to be selected by said corporation after its final surveys have been made.

Right to build Pole line on Highway in front of undersigned property.

Together with the right at all times to enter thereon and to have access there- to and to construct, operate and maintain thereon and to repair, replace, protect and re- move, lines of poles, towers, cables, cross arms, guys, braces and all other appurtenances or fixtures adapted to the present and future needs, uses and purposes of said corporation, its successors, assigns and lessees.

Together with the right also to trim, cut and remove at any time such trees and other objects thereon and on adjacent property of the undersigned, as in the judgment of said corporation, its successors, assigns and lessees, may interfere with, obstruct or en- danger the construction, operation or maintenance of said rights, lines and fixtures or any thereof.

Reserving unto the undersigned the right to cultivate the ground between said poles and towers and beneath said wires and fixtures, provided that such use of said ground shall not interfere with obstruct or endanger any of the rights granted as aforesaid; and provided that damage to the property owned by the undersigned caused solely by said corpora- tion, its successors, assigns or lessees, in maintaining or repairing said lines shall be adjusted at the expense of said corporation, its successors, assigns, or lessees.

The undersigned agrees to accept in full payment and satisfaction for the easement, right of way and all the rights granted as aforesaid, the further sum of \$ \_\_\_\_\_, which shall be paid or tendered by said corporation before the construction of said lines is begun, and in any event not later than \_\_\_\_\_, 192\_\_\_\_, in default of which said payment or tender, this agreement shall without further act on the part of either the undersigned or of the corporation, become in all respects void and of no effect.

The provisions hereof shall apply to and bind the heirs, legal representatives, successors, assigns and lessees of the undersigned and said corporation, respectively.

Signed, sealed and delivered on Jan. 11th, 1929.  
In the presence of  
H. B. Hewitt

J. M. Meredith Jr. (L.S.)

A true record entered  
June 17, 1929 at 10:55 A. M.

Notary Public, Orange Co.  
Certificate filed in Ulster Co.

*W. G. ...*

Clerk.

//////  
In consideration of the sum of \$1.00 paid to the undersigned by Central Hudson Gas & Electric Corporation, the receipt whereof is hereby acknowledged, the undersigned hereby grants and conveys unto said corporation, its successors and assigns, in perpetuity, an easement and right of way \_\_\_\_\_ feet in width throughout its extent, in, upon, over and across the lands of the undersigned, including roads thereon and adjacent thereto, situated in the Town of Shawangunk, County of Ulster State of New York, the exact location thereof to be selected by said corporation after its final surveys have been made.

Right to build pole line on Highway in front of undersigned property.

Together with the right at all times to enter thereon and to have access thereto and to construct, operate and maintain thereon and to repair, replace, protect and remove, lines of poles, towers, cables, cross arms, guys, braces and all other appurtenances or fixtures adapted to the present and future needs, uses and purposes of said corporation, its successors, assigns and lessees.

Together with the right also to trim, cut and remove at any time such trees and other objects thereon and on adjacent property of the undersigned, as in the judgment of said corporation, its successors, assigns and lessees, may interfere with, obstruct or endanger the construction, operation or maintenance of said rights, lines and fixtures or any thereof.

Reserving unto the undersigned the right to cultivate the ground between said poles and towers and beneath said wires and fixtures, provided that such use of said ground shall not interfere with, obstruct or endanger any of the rights granted as aforesaid; and provided that damage to the property owned by the undersigned caused solely by said corporation, its successors, assigns or lessees, in maintaining or repairing said lines shall be adjusted at the expense of said corporation, its successors, assigns, or lessees.

The undersigned agrees to accept in full payment and satisfaction for the easement, right of way and all the rights granted as aforesaid, the further sum of \$ \_\_\_\_\_, which shall be paid or tendered by said corporation before the construction of said lines is begun, and in any event not later than \_\_\_\_\_, 192\_\_\_\_, default of which said payment or tender, this agreement shall without further act on the part of either the undersigned or of the corporation, become in all respects void and of no effect.

The provisions hereof shall apply to and bind the heirs, legal representatives, successors, assigns and lessees of the undersigned and said corporation, respectively.

Signed, sealed and delivered on Jan 5th, 1929.  
In the presence of  
H. B. Hewitt

Mrs. Minnie Meredith (L.S.)

(= Wm B)

STATE OF NEW YORK:  
COUNTY OF ORANGE:SS.:

On this 5th day of January 1929 before me personally came

--- H. B. HEWITT ---  
(subscribing witness)

with whom I am personally acquainted, to me known and known to me to be the subscribing witness to the foregoing instrument, who, being by me duly sworn, did depose and say that he resides in Newburgh, N. Y., that he is personally acquainted with Mrs. Minnie Meredith and knows said persons to be the persons described in and who executed the foregoing instrument; that he, the said subscribing witness, was present and saw the said persons execute the same and that she (severally) duly acknowledged to him, the said subscribing witness, that she executed the same and that he thereupon subscribed his name as witness thereto.

C. D. Ewing  
Notary Public, Orange Co.  
Certificate filed in Ulster Co.

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A true record entered  
June 17, 1929 at 10:55 A. M.

*W. G. ...*

Clerk.

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In consideration of the sum of \$1.00 paid to the undersigned by Central Hudson Gas & Electric Corporation, the receipt whereof is hereby acknowledged, the undersigned hereby grants and conveys unto said corporation, its successors and assigns, in perpetuity, an ease-

In consideration of the sum of \$1.00 paid to the undersigned by Central Hudson Gas & Electric Corporation, the receipt whereof is hereby acknowledged, the undersigned hereby grants and conveys unto said corporation, its successors and assigns, in perpetuity, an easement and right of way \_\_\_\_\_ feet in width throughout its extent, in, upon, over and across the lands of the undersigned, including roads thereon and adjacent thereto, situated in the Town of Shawangunk, County of Ulster and State of New York, the exact location thereof to be selected by said corporation after its final surveys have been made.

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ment and right of way \_\_\_\_\_ feet in width throughout its extent, in, upon, over and across the lands of the undersigned, including roads thereon and adjacent thereto, situated in the Town of Shawangunk, County of Ulster and State of New York, the exact location thereof to be selected by said corporation after its final surveys have been made.

Right to build pole line on Highway in front of undersigned property.

Together with the right at all times to enter thereon and to have access there- to and to construct, operate and maintain thereon and to repair, replace, protect and re- move, lines of poles, towers, cables, cross arms, guys, braces and all other appurtenances or fixtures adapted to the present and future needs, uses and purposes of said corporation, its successors, assigns and lessees.

Together with the right also to trim, cut and remove at any time such trees and other objects thereon and on adjacent property of the undersigned, as in the judgment of said corporation, its successors, assigns and lessees, may interfere with, obstruct, or en- danger the construction, operation or maintenance of said rights, lines and fixtures or any thereof.

Reserving unto the undersigned the right to cultivate the ground between said poles and towers and beneath said wires and fixtures, provided that such use of said ground shall not interfere with, obstruct or endanger any of the rights granted as aforesaid; and provided that damage to the property owned by the undersigned caused solely by said corpora- tion, its successors, assigns, or lessees, in maintaining or repairing said lines shall be adjusted at the expense of said corporation, its successors, assigns, or lessees.

The undersigned agrees to accept in full payment and satisfaction for the easement, right of way and all the rights granted as aforesaid, the further sum of \$ \_\_\_\_\_ which shall be paid or tendered by said corporation before the construction of said lines is begun, and in any event not later than \_\_\_\_\_, 192\_\_\_\_, in default of which said payment or tender, this agreement shall without further act on the part of either the under- signed or of the corporation, become in all respects void and of no effect.

The provisions hereof shall apply to and bind the heirs, legal representatives, successors, assigns and lessees of the undersigned and said corporation, respectively. Signed, sealed and delivered on Dec. 28th, 1928. In the presence of H. B. Hewitt Fred W. Meredith (L.S.)

STATE OF NEW YORK: COUNTY OF ORANGE:SS.:

On this 28th day of December, 1928, before me personally came

--- H. B. HEWITT --- (subscribing witness)

with whom I am personally acquainted, to me known and known to me to be the subscribing wit- ness to the foregoing instrument, who, being by me duly sworn, did depose and say that he re- sides in Newburgh, N. Y. that he is personally acquainted with Fred W. Meredith and knows said persons to be the persons described in and who executed the foregoing instrument; that he, the said subscribing witness, was present and saw the said persons execute the same and that he (severally) duly acknowledged to him, the said subscribing witness, that he executed the same and that he thereupon subscribed his name as witness thereto.

C. D. Ewing Notary Public, Orange Co. Certificate filed in Ulster Co.

A true record entered June 17, 1929 at 10:55 A. M.

W. G. Woodcock Clerk.

B.O. 342

In consideration of the sum of \$1.00 paid to the undersigned by Central Hudson Gas & Electric Corporation, the receipt, whereof is hereby acknowledged, the undersigned hereby grants and conveys unto said corporation, its successors, and assigns in perpetuity, an easement and right of way \_\_\_\_\_ feet in width throughout its extent in, upon, over and across the lands of the undersigned, including roads thereon and adjacent thereto, situated in the Town of Shawangunk, County of Ulster State of New York, the exact location thereof to be selected by said corporation after its final surveys have been made.

Right to build Pole line on Highway in front of undersigned property.

Together with the right at all times to enter thereon and to have access there- to and to construct, operate and maintain thereon and to repair, replace, protect and remove lines of poles, towers, cables, cross arms, guys, braces and all other appurtenances or fix-

J. D. Ewing  
Notary Public, Orange Co.  
Certificate filed in Ulster Co.

A true record entered  
June 17, 1929 at 10:55 A. M.

*H. B. Hewitt* Clerk.

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In consideration of the sum of \$1.00 paid to the undersigned by Central Hudson Gas & Electric Corporation, the receipt, whereof is hereby acknowledged, the undersigned hereby grants and conveys unto said corporation, its successors, and assigns in perpetuity, an easement and right of way \_\_\_\_\_ feet in width throughout its extent in, upon, over and across the lands of the undersigned, including roads thereon and adjacent thereto, situated in the Town of Chawamunk, County of Ulster State of New York, the exact location thereof to be selected by said corporation after its final surveys have been made.

Right to build Pole line on Highway in front of undersigned property.

Together with the right at all times to enter thereon and to have access there- to and to construct, operate and maintain thereon and to repair, replace, protect and remove line of poles, towers, cables, cross arms, guys, braces and all other appurtenances or fix- tures adapted to the present and future needs, uses and purposes of said corporation, its successors, assigns and lessees.

Together with the right also to trim, cut and remove at any time such trees and other objects thereon and adjacent property of the undersigned, as in the judgment of said corporation, its successors, assigns and lessees, may interfere with, obstruct or en- danger the construction, operation or maintenance of said rights, lines and fixtures or any thereof.

Reserving unto the undersigned the right to cultivate the ground between said poles and towers and beneath said wires and fixtures, provided that such use of said ground shall not interfere with, obstruct or endanger any of the rights granted as aforesaid; and provided that damage to the property owned by the undersigned caused solely by said corpora- tion, its successors, assigns or lessees, in maintaining or repairing said lines shall be adjusted at the expense of said corporation, its successors, assigns or lessees.

The undersigned agrees to accept in full payment and satisfaction for the eas- ment, right of way and all the rights granted as aforesaid, the further sum of \$ \_\_\_\_\_ which shall be paid or tendered by said corporation before the construction of said lines is begun, and in any event not later than \_\_\_\_\_, 192\_\_\_\_, in default of which said payment or tender, this agreement shall without further act on the part of either the undersigned or of the corporation, become in all respects void and of no effect.

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The provisions hereof shall apply to and bind the heirs, legal representatives, successors, assigns and lessees of the undersigned and said corporation, respectively. Signed, sealed and delivered on Jan. 5th, 1929. In the presence of  
H. B. Hewitt  
John Meredith Sr. (L.S.)

STATE OF NEW YORK  
COUNTY OF ORANGE:SS.:

On this 5th day of January, 1929 before me personally came

--- H. B. HEWITT ---  
(subscribing witness)

with whom I am personally acquainted, to me known and known to me to be the subscribing witness to the foregoing instrument, who, being by me duly sworn, did depose and say that he resides in Newburgh, N. Y. that he is personally acquainted with John Meredith Sr. and knows said persons to be the persons described in and who executed the foregoing instrument; that he, the said subscrib- ing witness, was present and saw the said persons execute the same and that he (severally) duly acknowledged to him, the said subscribing witness, that he executed the same and that he there- upon subscribed his name as witness thereto.

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(subscribing witness)  
with whom I am personally acquainted, to me known and known to me to be the subscribing witness to the foregoing instrument, who, being by me duly sworn, did depose and say that he resides in City of Newburgh, that he is personally acquainted with Hanson & Etta Low and knows said persons to be the persons described in and who executed the foregoing instrument; that he, the said subscribing witness, was present and saw the said persons execute the same and that they (severally) duly acknowledged to him, the said subscribing witness, that they executed the same and that he thereupon subscribed his name as witness thereto.

C. D. Ewing  
Notary Public, Orange Co.  
Certificate filed in Ulster County.

A true record entered  
June 20, 1931 at 9 A. M.

B.O.  
M.B.O.  
M.B.O.

*J. Hampton*  
Clerk.

////////////////////////////////////  
In consideration of the sum of \$1.00 paid to the undersigned by CENTRAL HUDSON GAS AND ELECTRIC CORPORATION, a corporation of the State of New York and having its principal office at 50 Market Street, Poughkeepsie, State of New York, AND NEW YORK TELEPHONE COMPANY, a corporation of the State of New York, and having its principal office at 140 West St., N. Y. City, in the State of New York the receipt of which is hereby acknowledged, the undersigned hereby grants unto the said Corporations, and either of them their respective successors, assigns and lessees, a right of way and the right to construct, operate, relocate and maintain, and to repair, inspect and remove, any and all lines of poles for present and future needs, including cables, wires, cross-arms, guys, braces, anchors and other fixtures upon highways adjoining or upon, and in, over and upon the property which I own or in which I have an interest, situate in the Town of Shawangunk, County of Ulster State of New York, said lines to be located as specified on South and West sides of Maarkill Road as staked, from Property Hansen and Schwars to A. A. Birch, together with the right to cut and trim any trees along said lines, and to keep the wires cleared six feet, and to attach to trees on said property and on the highways which adjoin or are upon said property, such guy wires as said Corporations, or either of them, may deem necessary.

The provisions hereof shall apply to and bind the heirs, legal representatives successors, assigns and lessees of the undersigned and said Corporations respectively.

Signed, sealed and delivered on Jan 5th, 1931.

In the presence of  
H. B. Hewitt

John Meredith, Sr. (L.S.)

STATE OF NEW YORK:  
COUNTY OF ULSTER :SS.:

On this 5th day of January, 1931, before me personally came

--- H. B. HEWITT ---  
(subscribing witness)

with whom I am personally acquainted, to me known and known to me to be the subscribing witness to the foregoing instrument, who being by me duly sworn, did depose and say that he resides in City of Newburgh, that he is personally acquainted with John Meredith Sr. and knows said person to be the person described in and who executed the foregoing instrument; that he the said subscribing witness, was present and saw the said person execute the same and that he (severally) duly acknowledged to him, the said subscribing witness, that he executed the same and that he thereupon subscribed his name as witness thereto.

C. D. Ewing  
Notary Public, Orange Co.  
Certificate filed in Ulster County.

A true record entered  
June 20, 1931 at 9 A. M.

B.O.  
M.B.O.  
M.B.O.

5529121

*J. Hampton*  
Clerk.

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In consideration of the sum of \$1.00 paid to the undersigned by Central Hudson Gas & Electric Corporation, the receipt whereof is hereby acknowledged, the undersigned hereby grant and convey unto said corporation, its successors and assigns, an easement and right of way 6 feet in width throughout its extent, in, upon, over and across the lands of

to the foregoing instrument, and, being by me duly sworn, did depose and say that he resides in City of Newburgh, that he is personally acquainted with Charles & Mary Marinaccio and knows said persons to be the persons described in and who executed the foregoing instrument; that he the said subscribing witness was present and saw the said persons execute the same and that they (severally) duly acknowledged to him, the said subscribing witness, that they executed the same and that he thereupon subscribed his name as witness thereto.

C. D. Ewing  
Notary Public, Orange Co.  
Certificate filed in Ulster County.

B.O.  
M.B.O.  
M.B.O.

A true record entered  
June 20, 1931 at 9 A. M.

*Johnson*

Clerk.

////////////////////////////////////  
In consideration of the sum of \$1.00 paid to the undersigned by CENTRAL HUDSON GAS AND ELECTRIC CORPORATION, a corporation of the State of New York and having its principal office at 50 Market Street, Poughkeepsie, State of New York, AND NEW YORK TELEPHONE COMPANY, a corporation of the State of New York, and having its principal office at 140 West St., N. Y. City, in the State of New York, the receipt of which is hereby acknowledged, the undersigned hereby grant unto the said Corporations, and either of them, their respective successors, assigns and lessees, a right of way and the right to construct, operate, relocate and maintain, and to repair, inspect and remove, any and all line of poles for present and future needs, including cables, wires, cross-arms, guys, braces, anchors and other fixtures, upon highways adjoining or upon, and in, over and upon the property which we own or in which we have an interest, situate in the Town of Shawangunk, County of Ulster, State of New York, said line to be located as specified on Undersigned Property on the East and West sides of Highway as staked (Dwaerkill Road), together with the right to cut and trim any trees along said lines, and to keep the wires cleared six feet, and to attach to trees on said property and on the highways which adjoin or are upon said property, such guy wires as said Corporations, or either of them, may deem necessary.

The provisions hereof shall apply to and bind the heirs, legal representatives, successors, assigns and lessees of the undersigned and said Corporations respectively.

Signed, sealed and delivered on Nov. 25th, 1930.

In the presence of  
H. B. Hewitt

John M. Meredith Jr. (L.S.)  
Hilton E. Grovers (L.S.)

5527122

STATE OF NEW YORK:  
COUNTY OF ULSTER :SS.:

On this 25th day of November, 1930, before me personally came

--- H. B. HEWITT ---  
(subscribing witness)

with whom I am personally acquainted to me known and known to me to be the subscribing witness to the foregoing instrument, who, being by me duly sworn, did depose and say that he resides in City of Newburgh, that he is personally acquainted with John M. Meredith & Hilton E. Grover, and knows said persons to be the persons described in and who executed the foregoing instrument; that he, the said subscribing witness, was present and saw the said persons execute the same and that they (severally) duly acknowledged to him, the said subscribing witness, that they executed the same and that he thereupon subscribed his name as witness thereto.

C. D. Ewing  
Notary Public, Orange Co.  
Certificate filed in Ulster County.

B.O.  
M.B.O.  
M.B.O.

A true record entered  
June 20, 1931 at 9 A. M.

*Johnson*

Clerk.

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A true record entered  
Dec. 28, 1931, at 11 A. M.

*J. M. Meredith* Clerk.

Newburgh, N.Y.  
Date, 10-5 1931.

In consideration of Central Hudson Gas & Electric Corporation, a domestic corporation having its principal office at 50 Market Street, Poughkeepsie, New York, agreeing to repair and maint: in the poles, wires and fixtures located on my property in the Town of Shawangunk, County of Ulster, N.Y., and described as (Line extension from Pole #.... south to house 1-30 Chest. pole butt treated 1-3 Sp. Hack. 1 tree buy 350' #6 wire on Hoagberg Rd., the undersigned hereby grants and conveys unto said Corporation its successors and assigns all his right, title and interest in said poles, wires and fixtures, and grants and conveys to said Corporation, its successors and assigns an easement and right of way in and on the property of the undersigned for the poles, wires and fixtures in their present location for the operation and maintenance thereof.

Witness Earl L. Lasher

J. M. Meredith (L.S.)

Accepted and agreed to this 16th  
day of October, 1931  
Central Hudson Gas & Electric Corporation,  
By, P. A. Burnes,  
Secretary.

STATE OF NEW YORK:  
COUNTY OF ORANGE : SS.:

On this 15 day of October, 1931, before me, personally came,

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--- EARL L. LASHER ---

with whom I am personally acquainted, to me known and known to me to be the subscribing witness to the foregoing instrument, who, being by me duly sworn, did depose and say that he resides in Poughkeepsie, N.Y., that he is personally acquainted with Mr. J. M. Meredith and knows said person to be the person described in and who executed the foregoing instrument; that he, the said subscribing witness, was present and saw the said person execute the same and that he severally duly acknowledged to him, the said subscribing witness, that he executed the same and that he thereupon subscribed his name as witness thereto.

C. D. Ewing,  
Notary Public.

A true record entered  
Dec. 28, 1931, at 11 A. M.

5569 343

*J. M. Meredith* Clerk.

In consideration of the sum of One Dollar (\$1.00) and other valuable considerations, the receipt whereof from Central Hudson Gas and Electric Corporation, AND N.Y. is hereby acknowledged, the undersigned hereby grants and conveys unto said Corporation, its successors and assigns, all his right, title and interest in and unto the land of the undersigned and across the lands of the undersigned including the land of the undersigned, situated in the Town of Saugerties, County of Ulster, State of New York, known as Harryville-Blue Mt. Road.

with the right at all times to enter thereon and have access thereon and to construct, relocate, operate and maintain thereon and to repair, replace, protect and maintain all poles, including poles, wires, crossarms, guys, braces, underground conduits and fixtures related to the present or future needs, uses and purposes, their respective successors, assigns and lessees.

together with the right also to attach guy wires to trees on said property and to trim, cut and remove trees and other objects thereon so as to provide clearance of 6 feet from the property of said corporation.

Said easement and fixtures shall extend from the property line of Harry Wells



well acquainted with the handwriting of such Commissioner of Deeds and verily believe that his signature to such proof or acknowledgment is genuine.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seal of said Court at the City of New York, in the County of New York, this 19 day of Nov. 1930.

(Seal)

Daniel E. Finn, Clerk.

A true record entered  
June 20, 1931 at 9 A.M.

*Johnson*  
Clerk.

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In consideration of the sum of \$1.00 paid to the undersigned by CENTRAL HUDSON GAS AND ELECTRIC CORPORATION, a corporation of the State of New York and having its principal office at 50 Market Street, Poughkeepsie, State of New York, AND WALDEN TELEPHONE COMPANY, a corporation of the State of New York and having its principal office at Walden in the State of New York the receipt of which is hereby acknowledged, the undersigned hereby grant unto the said Corporations, and either of them, their respective successors, assigns and lessees, a right of way and the right to construct, operate, relocate and maintain, and to repair, inspect and remove, line of poles for present and future needs, including cables, wires, cross-arms, guys, braces, anchors and other fixtures, upon highways adjoining or upon, and in, over and upon the property which we own or in which we have an interest, situate in the Town of Shawangunk, County of Ulster, State of New York, said line to be located as specified South east from Meredith property on Dwaarkill Road to Barn of undersigned, then south on west side of Dwaarkill Road to the property of Brundage (along fence line or h-way.), together with the right to cut and trim any trees along said lines, and to keep the wires cleared 6 feet, and to attach to trees on said property and on the highways which adjoin or are upon said property, such guy wires as said Corporations, or either of them, may deem necessary.

The provisions hereof shall apply to and bind the heirs, legal representatives, successors, assigns and lessees of the undersigned and said Corporations respectively.

Signed, sealed and delivered on May 15th, 1931  
In the presence of  
H. B. Hewitt

Abner H. Birch (L.S.)  
Residing at Walkkill, N. Y.  
Lottie W. Birch (L.S.)  
Residing at Walkkill, N. Y.

STATE OF NEW YORK  
COUNTY OF ULSTER : SS.:

On this 15th day of May 1931 before me personally came

--- H. B. HEWITT (subscribing witness) ---

with whom I am personally acquainted, to me known and known to me to be the subscribing witness to the foregoing instrument, who, being by me duly sworn, did depose and say that he resides in City of Newburgh, that he is personally acquainted with Abner H. & Lottie W. Birch and knows said persons to be the persons described in and who executed the foregoing instrument; that he, the said subscribing witness, was present and saw the said persons execute the same and that they severally duly acknowledged to him, the said subscribing witness that they executed the same and that he thereupon subscribed his name as witness thereto.

C. D. Swing  
Notary Public, Orange Co.  
Certificate filed in Ulster County.

A true record entered  
June 20, 1931 at 9 A.M.

552 p/115

*Johnson*

Clerk.

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In consideration of the sum of \$1.00 paid to the undersigned by CENTRAL HUDSON GAS AND ELECTRIC CORPORATION, a corporation of the State of New York and having its principal office at 50 Market Street, Poughkeepsie, State of New York, AND WALDEN TELEPHONE COMPANY, a corporation of the State of New York and having its principal office at Walden in the State of New York, the receipt of which is hereby acknowledged, the undersigned hereby grant unto the said Corporations, and either of them, their respective successors, assigns and lessees, a right of way and the right to construct, operate, relocate and maintain, and to repair, inspect and remove, any and all line of poles for present and future needs, including cables, wires, cross-arms, guys, braces, anchors and other fixtures, upon highways adjoining, and in, over and upon the property which we own or in which we have an interest, situate in the Town of Shawangunk, County of Ulster, State of New York, said line to be located as specified East from Meredith property on Dwaarkill road to the Rhinehart property, together with the right to cut and trim any trees along said lines, and to keep the wires cleared 6 feet, and to attach to trees on said property and on the highways which adjoin or are upon said property, such guy wires as said Corporations, or either of them, may deem necessary.

The provisions hereof shall apply to and bind the heirs, legal representatives, successors, assigns and lessees of the undersigned and said Corporations respectively.

Signed, sealed and delivered on May 15th, 1931.  
In the presence of  
H. B. Hewitt

Abner H. Birch (L.S.)  
Residing at Walkkill, N. Y.  
Lottie W. Birch (L.S.)  
Residing at Walkkill, N. Y.

MBS  
MBS  
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MBS  
BO

*Johnson*

Clerk.

In consideration of the sum of \$1.00 paid to the undersigned by CENTRAL  
HUDSON GAS AND ELECTRIC CORPORATION, a corporation of the State of New York and having its  
 principal office at 50 Market Street, Poughkeepsie, State of New York, and having its  
COMPANY, a corporation of the State of New York, and having its principal office at Walden  
 in the State of New York, the receipt of which is hereby acknowledged, the undersigned hereby  
 grant unto the said Corporations, and either of them, their respective successors, assigns  
 and lessees, a right of way and the right to construct, operate, relocate and maintain, and  
 to repair, inspect and remove, any and all line of poles for present and future needs, in-  
 cluding cables, wires, cross-arms, guys, braces, anchors and other fixtures, upon highways  
 adjoining, and in, over and upon the property which we own or in which we have an interest,  
 situate in the Town of Shawangunk, County of Ulster, State of New York, said line to be lo-  
 cated as specified east from Meredith property on Lwaarkill road to the Rhinehart property,  
 together with the right to cut and trim any trees along said line, and to keep the wires  
 cleared 6 feet, and to attach to trees on said property and on the highways which adjoin or  
 are upon said property, such guy wires as said Corporations, or either of them, may deem  
 necessary.

The provisions hereof shall apply to and bind the heirs, legal representa-  
 tives, successors, assigns and lessees of the undersigned and said Corporations respectively.

Signed, sealed and delivered on May 15th, 1931.  
 In the presence of  
 H. B. Hewitt

Abner H. Birch (L.S.)  
 Residing at Walkkill, N. Y.  
 Lottie W. Birch (L.S.)  
 Residing at Walkkill, N. Y.

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STATE OF NEW YORK  
 COUNTY OF ULSTER : SS.:

On this 15th da. of May, 1931, before me personally came

--- H. B. HEWITT (subscribing witness) ---  
 with whom I am personally acquainted, to me known and known to me to be the subscribing witness  
 to the foregoing instrument, who, being by me duly sworn, did depose and say that he resides in  
 City of Newburgh, that he is personally acquainted with Abner H. & Lottie W. Birch and knows said  
 persons to be the persons described in and who executed the foregoing instrument; that he, the  
 said subscribing witness was present and saw the said persons execute the same and that they  
 severally duly acknowledged to him, the said subscribing witness, that they executed the same  
 and that he thereupon subscribed his name as witness thereto.

C. D. Swing  
 Notary Public, Orange Co.  
 Certificate filed in Ulster County.

A true record entered  
 June 2-, 1931 at 9 A.M.

in BS  
 MAS  
 BO

*Johnson*

Clerk.

In consideration of the sum of \$1.00 paid to the undersigned by CENTRAL  
HUDSON GAS AND ELECTRIC CORPORATION, a corporation of the State of New York and having its prin-  
 cipal office at 50 Market Street, Poughkeepsie, State of New York, the receipt of which is hereby  
 acknowledged, the undersigned hereby grant unto the said Corporation, and either of them, their  
 respective successors, assigns and lessees, a right of way and the right to construct, operate,  
 relocate and maintain, and to repair, inspect and remove, line of poles for present and future  
 needs, including cables, wires, cross-arms, guys, braces, anchors, and other fixtures, upon  
 highways adjoining or upon, and in, over and upon the property which we own or in which we have  
 an interest, situate in the Town of Shawangunk, County of Ulster, State of New York, said line  
 to be located as specified from property of Decker west to the property of J. F. Scott on Lwaar-  
 kill road, together with the right to cut and trim any trees along said line, and to keep the  
 wires cleared 6 feet, and to attach to trees on said property and on the highways which adjoin  
 or are upon said property, such guy wires as said Corporation deem necessary.

The provisions hereof shall apply to and bind the heirs, legal representa-

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*John MacHorton* Clerk

In consideration of the sum of One Dollar and other valuable considerations, the receipt whereof, from Central Hudson Gas and Electric Corporation is hereby acknowledged, the undersigned hereby grant and convey unto said corporation, its successors and assigns, an easement and right of way in, upon, over, under and across the lands of the undersigned including the roads and highways thereon and adjacent thereto, situate in the Town of Shawangunk, County of Ulster, State of New York, Red Mills-Dwaarkill Rd.

Together with the right at all times to enter thereon and have access thereto and to construct, relocate, operate and maintain thereon, and to repair replace, protect and remove a line of poles, cables, crossarms, guys, braces, underground conduits and all other appurtenances or fixtures adapted to the present or future needs, uses and purposes of said corporation its successors, assigns and lessees.

Together with the right also to attach guy wires to trees on said property, and to trim, cut and remove trees and other objects thereon so as to provide a clearance of 5 feet from the property of the corporation.

Said easement and line shall extend from the property line of Dave Brundage on the south to the property line of Chris Hansen on the north.

The exact location of said easement and line to be as determined by said corporation having regard to the origin, general direction and destination of said line and the requirements of said corporation.

Provided, however, that this right of way shall be void and of no effect unless construction hereunder is commenced on the property covered hereby on or before one year from the date hereof.

The provisions hereof shall apply to and bind the heirs, legal representatives, successors, assigns and lessees of the undersigned and of said corporation respectively.

Signed, sealed and delivered on Apr. 15, 1932.

In the Presence of:  
John MacHorton

A. H. Birch (L.S.)  
Lottie W. Birch (L.S.)

STATE OF NEW YORK:  
COUNTY OF ULSTER :SS.:

On this 15th day of April, 1932, before me, personally came,

---- JOHN MAC HORTON ----

558 of 336

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with whom I am personally acquainted, to me known and known to me to be the subscribing witness to the foregoing instrument, who, being by me duly sworn, did depose and say that he resides in New Paltz, that he is personally acquainted with A. H. Birch, Lottie W. Birch, and knows said persons to be the persons described in and who executed the foregoing instrument; that he, the said subscribing witness, was present and saw the said persons execute the same and that they severally duly acknowledged to him, the said subscribing witness, that they executed the same and that he thereupon subscribed his name as witness thereto.

D. C. Lawrence,  
Notary Public  
Certificate filed in Ulster County.

A true record entered  
Apr. 25, 1932, at 10-55 A. M.

*John MacHorton* Clerk

THIS INDENTURE, Made the thirteenth day of February, in the year One thousand nine hundred and twenty-two.

BETWEEN HENRY F. SCHRIER of the Town of Hancock, County of Delaware, and State of New York, as Administrator of the Estate of Sylvia E. Schrier, deceased, party of the first part, and

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...duly acknowledged to him, the said subscribing witness, that they executed the same and that he thereupon subscribed his name as witness thereto.

Ray J. Clearwater,  
Notary Public.  
Certificate filed in Ulster County.

A true record entered  
July 19, 1935, at 9 A. M.

*[Signature]* Clerk.

In consideration of the sum of one Dollar (\$1.00) and other valuable considerations, the receipt whereof from Central Hudson Gas and Electric Corporation, and New York Tel. Co., is hereby acknowledged, the undersigned hereby grant and convey unto said corporations and either of them, their respective successors, assigns and lessees, an easement and right of way in, upon, over, under and across the lands of the undersigned including the roads and highways thereon and adjacent thereto situate in the town of Shawangunk, County of Ulster, State of New York,

together with the right at all times to enter thereon and have access thereto and to construct, relocate, operate and maintain thereon, and to repair, replace, protect and remove a line of poles including cables, wires, crossarms, guys, braces, underground conduits and all other appurtenances or fixtures adapted to the present or future needs, uses and purposes of said corporations, their respective successors assigns and lessees.

Together with the right also to attach guy wires to trees on said property, and to trim, cut and remove trees and other objects thereon so as to provide a clearance of 6 feet from the property of said corporations.

Said easement and line shall extend from the property line of Richard Meridith on the west to the property line of Ida Mance on the east & south to the property line John Bern on the north. Also bounded Quehl on west and Mance on east. Mance on west and Callahan on east.

The exact location of said easement and line to be as determined by said corporations having regard to the origin, general direction and destination of said line and the requirements of said corporations.

Provided, however, that this right of way shall be void and of no effect unless construction hereunder is commenced on the property covered hereby on or before one year from the date hereof.

The provisions hereof shall apply to and bind the heirs, legal representatives, successors, assigns and lessees of the undersigned and of said corporations respectively.

Drafted, sealed and delivered,  
on May 22, 1935.

In the presence of:  
J. R. Dolan

Edward L. Goebel (L.S.)  
Sadie Goebel (L.S.)  
residing at 86 Clove Ave.,  
Haverstraw, N. Y.

STATE OF NEW YORK:  
COUNTY OF ULSTER:SS.

On this 22nd day of May, 1935, before me, personally came,

----- J. R. DOLAN -----

with whom I am personally acquainted, to me known and known to me to be the subscribing witness to the foregoing instrument, who, being by me duly sworn, did depose and say that he resides in New Paltz, that he is personally acquainted with Edward & Sadie Goebel and knows said persons to be the persons described in and who executed the foregoing instrument; that he, the said subscribing witness, was present and saw the said persons execute the same and that he severally duly acknowledged to him, the said subscribing witness, that he executed the same and that he thereupon subscribed his name as witness thereto.

John J. Gibbons,  
Notary Public.

A true record entered  
July 19, 1935, at 9 A. M.

5767 472

*[Signature]* Clerk.

In consideration of the sum of one dollar (\$1.00) and other valuable considerations, the receipt whereof from Central Hudson Gas & Electric Corporation, and The New York Telephone Company, is hereby acknowledged, the undersigned hereby grant and convey unto said corporations, and either of them, their respective successors, assigns and lessees, an easement and right of way in, upon, over, under and across the lands of the undersigned including the roads and highways thereon and adjacent thereto, situate in the town of Plattekill, County of Ulster, State of New York, on County Road Modena-Walkill Road.

Together with the right at all times to enter thereon and have access thereto and to construct, relocate, operate and maintain thereon and to repair, replace, protect and

*[Handwritten notes]*

*[Handwritten notes]*

Form No. 408-2M-12-67

LIBER 1220 PG 372

In consideration of the sum of \$1.00 and other valuable considerations, the receipt whereof from Central Hudson Gas and Electric Corporation, a domestic corporation having its principal office (residence) at 284 South Ave., Poughkeepsie, New York, AND Walden Telephone Co., a domestic Corporation having its principal office (residence) at 75 Orange Avenue, Walden, New York, is hereby acknowledged, the undersigned hereby grant(s) and convey(s) unto said corporations, and each of them, their respective successors and assigns, an easement and right of way 30 feet in width throughout its extent, in, upon, over, under and across the lands of the undersigned, including roads and highways thereon and adjacent thereto, situated in the Town of Shawangunk, County of Ulster, State of New York.

Said easement and line shall extend from the property line of Brophy on the north in a southerly direction to the property line of Seaman on the south along Goebel Road to serve J. Goebel and others.

The exact location of said easement and right of way is to be as determined by said corporations having regard to the origin, general direction and destination of the lines and the requirements of said corporations.

Together with the right at all times to enter thereon and to have access thereto and to construct, relocate, operate and maintain thereon and to repair, replace, protect and remove, lines of poles, cables, crossarms, wires, guys, braces, underground conduits, and all other appurtenances and fixtures adapted to the present and future needs, uses and purposes of said corporations, their respective successors, assigns and lessees. Together with the right also to trim, cut and remove at any time such trees and other objects thereon and on adjacent property of the undersigned, as in the judgment of said corporations, their respective successors, assigns and lessees, may interfere with, obstruct or endanger the construction, operation or maintenance of said rights, lines and fixtures or any thereof.

Reserving unto the undersigned the right to cultivate the ground within the limits of the right of way, provided that such use of said ground shall not interfere with, obstruct or endanger any of the rights granted as aforesaid and provided that no house or other structure shall be erected within the limits of the right of way without the written consent of said corporations; and provided that damage to the property owned by the undersigned caused solely by said corporations, their respective successors, assigns or lessees, in maintaining or repairing said lines shall be adjusted at the expense of said corporations, their respective successors, assigns or lessees.

The provisions hereof shall inure to and bind the heirs, legal representatives, successors, assigns and lessees of the undersigned and said corporations respectively.

Signed, sealed and delivered on August 27, 1968, Florence G. Goebel (L. S.)  
 In the presence of: John J. Goebel (L. S.)  
 Residing at: None Goebel Road  
 Shawangunk Number: Ulster Street New York  
 Town, County State

\* If no street number put "(none)".

INDIVIDUAL ACKNOWLEDGMENT.  
 STATE OF NEW YORK

County of \_\_\_\_\_ ss.:  
 On this \_\_\_\_\_ day of \_\_\_\_\_, 1968, before me, the subscriber, personally appeared \_\_\_\_\_ to me personally known and known to me to be the individual(s) described in and who executed the foregoing instrument, and \_\_\_\_\_ (severally) duly acknowledged to me that he executed the same.  
 Notary Public.

CORPORATION ACKNOWLEDGMENT  
 STATE OF \_\_\_\_\_ ss.:

County of \_\_\_\_\_ in the year \_\_\_\_\_  
 On this \_\_\_\_\_ day of \_\_\_\_\_, 1968, to he resides at \_\_\_\_\_; that he is the the corporation described in and which executed the above instrument; t: instrument is such corporate seal; that it was so affixed by order of t: thereto by this order.  
 Notary Public.

Cancelled 11-7-68  
 REAL ESTATE STATE OF NEW YORK  
 TRANSFER TAX  
 Dept. of Taxation NOV-7'68  
 & Finance PB 10943  
 002410  
 = 00.00

ACKNOWLEDGMENT BY SUBSCRIBING WITNESS.  
 STATE OF NEW YORK

County of Orange ss.:  
 On this 27 day of August, 1968, before me personally came J. Leo Glynn (subscribing witness) with whom I am personally acquainted, to me known and known to me to be the subscribing witness to the foregoing instrument, who, being by me duly sworn, did depose and say that he resides in Newburgh, New York that he is personally acquainted with Florence G. Goebel and John J. Goebel and knows said person(s) to be the person(s) described in and who executed the foregoing instrument; that he, the said subscribing witness, was present and saw the said person(s) execute the same and that they (severally) duly acknowledged to him, the said subscribing witness, that they executed the same and that they subscribed his name as witness thereto.

Notary Public in the State of New York  
 Residing in Orange County  
 Commission Expires March 30 1970  
 James E. Brown  
 Notary Public.

RIGHT OF WAY  
 Town SHAWANGUNK  
 No. 481  
 GOEBEL JOHN  
 GOEBEL FLORENCE G.  
 TO  
 CENTRAL HUDSON GAS & ELEC. CORP.  
 Dated 8-27-68  
 Map  
 W. O. No. 76360-1-124  
 Line ON GOEBEL ROAD  
 County Clerk's Office  
 Received on the 7 day of Nov 1968  
 at 9 H. M. Recorded in  
 Book No. 1220 of Deeds  
 on page 372 and examined.  
 Leave this space for Recording Office  
 No. Fee Clk.  
 RECORD AND RETURN TO  
 CENTRAL HUDSON GAS & ELEC. CORP.  
 284 South Avenue, Poughkeepsie, N. Y.

LIBER 1199 OF 1092

Form No. 408-2M-12-64

In consideration of the sum of \$1.00 and other valuable considerations, the receipt whereof from Central Hudson Gas and Electric Corporation, a domestic corporation having its principal office (residence) at 284 South Ave., Poughkeepsie, New York, AND Walden Telephone Company, a domestic corporation having its principal office (residence) at 75 Orange Avenue, Walden, New York, is hereby acknowledged, the undersigned hereby grant(s) and convey(s) unto said corporations, and each of them, their respective successors and assigns, an easement and right of way 30 feet in width throughout its extent, in, upon, over, under and across the lands of the undersigned, including roads and highways thereon and adjacent thereto, situated in the Town of Shawangunk, County of Ulster, State of New York.

Said easement and line shall extend ~~through the woods in, along and adjacent to lands owned on the~~ Red Mills Road, Dwaarkill Road, Goebel Road and Dwaarkill-Brunswick Road, and across the said land for the purpose of constructing and maintaining a distribution line.

The exact location of said easement and right of way is to be as determined by said corporations having regard to the origin, general direction and destination of the lines and the requirements of said corporations.

Together with the right at all times to enter thereon and to have access thereto and to construct, relocate, operate and maintain thereon and to repair, replace, protect and remove, lines of poles, cables, crossarms, wires, guys, braces, underground conduits, and all other appurtenances and fixtures adapted to the present and future needs, uses and purposes of said corporations, their respective successors, assigns and lessees. Together with the right also to trim, cut and remove at any time such trees and other objects thereon and on adjacent property of the undersigned, as in the judgment of said corporations, their respective successors, assigns and lessees, may interfere with, obstruct or endanger the construction, operation or maintenance of said rights, lines and fixtures or any thereof.

Reserving unto the undersigned the right to cultivate the ground within the limits of the right of way, provided that such use of said ground shall not interfere with, obstruct or endanger any of the rights granted as aforesaid and provided that no house or other structure shall be erected within the limits of the right of way without the written consent of said corporations; and provided that damage to the property owned by the undersigned caused solely by said corporations, their respective successors, assigns or lessees, in maintaining or repairing said lines shall be adjusted at the expense of said corporations, their respective successors, assigns or lessees.

The provisions hereof shall inure to and bind the heirs, legal representatives, successors, assigns and lessees of the undersigned and said corporations respectively.

Signed, sealed and delivered, on May 27, 1967, WATCH TOWER BIBLE AND TRACT SOCIETY, INC. (S.)  
 By: Grant Suiter Secretary and Treasurer (L. S.)  
 Residing at: 124 Columbia Heights  
Kings County New York 11201

**INDIVIDUAL ACKNOWLEDGMENT.**  
**STATE OF NEW YORK**

County of \_\_\_\_\_ ss.:  
 On this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, before me, the subscriber, personally appeared \_\_\_\_\_ to me personally known and known to me to be the individual(s) described in and who executed the foregoing instrument, and he (severally) duly acknowledged to me that he (severally) executed the same.

**CORPORATION ACKNOWLEDGMENT.**  
**STATE OF NEW YORK**

County of KINGS ss.:  
 On this 27th day of May, 1967, before me personally appeared Grant Suiter to me known, who being by me duly sworn, did depose and say that he resides at Brooklyn, New York that he is the Secretary of the Watchtower Bible and Tract Society of New York, Inc. the corporation described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the board of directors of said corporation; and that he signed his name thereto by this order.

**ACKNOWLEDGMENT BY SUBSCRIBING WITNESS.**  
**STATE OF NEW YORK**

County of \_\_\_\_\_ ss.:  
 On this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, before me personally came \_\_\_\_\_ (subscribing witness) with whom I am personally acquainted, to me known and known to me to be the subscribing witness to the foregoing instrument, who, being by me duly sworn, did depose and say that he resides in \_\_\_\_\_ that he is personally acquainted with and knows said person(s) to be the person(s) described in and who executed the foregoing instrument; that he, the said subscribing witness, was present and saw the said person(s) execute the same and that he (severally) duly acknowledged to him, the said subscribing witness, that he (severally) executed the same and that he thereupon subscribed his name as witness thereto.

Notary Public.

508  
 RIGHT OF WAY  
 No. 468 Town SHAWANGUNK  
 FROM: WATCH TOWER BIBLE & TRACT SOCIETY OF NEW YORK, INC.  
 TO  
C.H.G. & E. Corp  
 Dated MAY 27, 1967 FILED  
 Map 974 M  
 W. O. No. 761-12-1431  
 Line \_\_\_\_\_  
 ALBERT SHADA  
 ULSTER COUNTY CLERK  
 Ulster County Clerk's Office  
 Received on the 27th day of May, 1967  
 at \_\_\_\_\_ H. \_\_\_\_\_ M. \_\_\_\_\_ A. M. Recorded in  
 Book No. 199 of Deeds  
 on page 97 and examined.  
Albert Shada  
 Leave this space for Recording Office  
 No. \_\_\_\_\_ Fee \_\_\_\_\_ Clk. \_\_\_\_\_  
 RECORD AND RETURN TO  
 CENTRAL HUDSON GAS & ELEC. CORP.  
 284 South Avenue, Poughkeepsie, N. Y.

Form No. 411 (Rev. 6/72)

In consideration of the sum of \$1.00 and other valuable considerations, the receipt whereof from Central Hudson Gas & Electric Corporation, a domestic corporation having its principal office (residence) at 284 South Avenue, Poughkeepsie, New York and HIGHLAND TELEPHONE COMPANY, a domestic corporation having its principal office (residence) at 145 N. MAIN ST, MONROE, N.Y. is hereby acknowledged, the undersigned hereby grant(s) and convey(s) unto said corporation(s), and each of them, their respective successors, assigns and lessees, an easement for any use relating to the electric, gas, or communication industry, including, but not limited to, the installation, operation and maintenance of overhead and for underground electric, gas or communication facilities which easement shall be 30 feet in width throughout its extent, in, upon, under, over and across the lands of the undersigned, including roads and highways thereon and adjacent thereto, situated in the TOWN of SHAWANGONIC County of ULSTER State of New York.

Said easement shall extend from the property line of \_\_\_\_\_ on the \_\_\_\_\_ in a direction to the property line of \_\_\_\_\_ on the \_\_\_\_\_

FOR THE PURPOSE OF INSTALLING POLES ANCHORS AND GUYS ALONG AND ADJACENT TO RED MILLS RD IN CONJUNCTION WITH THE ROAD WIDENING IMPROVEMENTS

Together with the permanent right at all times to have access thereto across the remaining premise of the undersigned, and to enter thereon and to construct, excavate, relocate, operate and maintain and to protect, repair, replace and remove, in, over and under the property covered by said easement, such facilities, including, but not limited to, lines or poles, cables, crossarms, wires, guys, braces, underground conduits, pipes, mains and ducts, and all other appurtenances and fixtures adaptable to the present and future needs, uses and purposes of said corporations, their respective successors, assigns and lessees, and provided that physical damage to the property owned by the undersigned caused solely by said corporations, their respective successors, assigns or lessees, shall be adjusted at the expense of the person or entity so causing such damage.

Together with the permanent right also to trim, cut and remove at any time such brush, trees and other objects thereon and on adjacent property of the undersigned, as in the sole judgement of said corporations, their respective successors, assigns and lessees, may interfere with, obstruct or endanger the construction, operation or maintenance of said rights, facilities and other appurtenances and fixtures or any thereof, which may hereafter be constructed in, over, or across said easement. Said right shall include the right to use chemical means of brush and tree removal only within the limits of said easement, and then only when such does not interfere with the right of the undersigned to cultivate the ground as hereinafter set forth.

The exact location of said easement and lines is to be as determined by said corporations having regard to the origin, general direction and destination of said facilities and the requirements of said corporations.

Reserving unto the undersigned the right to plant and cultivate lawn grass and low growing ornamental shrubs, and the right to remove across said easement, provided that any use of said easement shall not interfere with, obstruct or endanger any of the rights granted as aforesaid and provided that no house or other structures shall be erected and no excavating, mining or blasting shall be undertaken within the limits of said easement without the written consent of said corporations or their respective successors, lessees or assigns.

The terms hereof shall be binding upon and inure to the benefit of the heirs, legal representatives, successors, assigns and lessees of and as they apply to the undersigned and said corporations, respectively.

Signed, sealed and delivered, on June 1, 1995, in the presence of \_\_\_\_\_

*[Signature]*  
 Residing at: 124 Columbia Heights  
 Brooklyn, NY

**INDIVIDUAL ACKNOWLEDGMENT**  
 STATE OF NEW YORK

County of \_\_\_\_\_ ss:  
 On this \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_, before me, the subscriber, personally appeared \_\_\_\_\_ to me personally known and known to me to be the individual(s) described in and who executed the foregoing Instrument, and \_\_\_\_\_ he (severally) duly acknowledged to me that \_\_\_\_\_ he executed the same.

**CORPORATION ACKNOWLEDGMENT**  
 STATE OF NEW YORK

County of KINGS ss:  
 On this 1st day of June 19 95, before me personally appeared G. M. COUCH to me known, who being by me duly sworn, did depose and say: that he resides at Brooklyn, NY; that he is the Vice President of the Corporation described in and which executed the above instrument; that he knows the seal of said corporation; and that he is the name thereof in the order of such corporate seal; that it was affixed by order of the board of directors of said corporation; and that he is the name thereof in the order.

**ACKNOWLEDGMENT BY SUBSCRIBING WITNESS**  
 STATE OF NEW YORK

County of \_\_\_\_\_ ss:  
 On this \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_, before me personally came \_\_\_\_\_ (subscribing witness) with whom I am personally acquainted, to me known and known to me to be the subscribing witness to the foregoing instrument, who, being by me duly sworn, did depose and say that he resides in \_\_\_\_\_ that he is personally acquainted with and knows said person(s) to be the person(s) described in and who executed the foregoing instrument; that he, the said subscribing witness, was present and saw the said person(s) execute the same and that \_\_\_\_\_ (severally) duly acknowledged to him, the said subscribing witness, that \_\_\_\_\_ he executed the same and that he thereupon subscribed his name as witness thereto.

WATCHTOWER BIBLE AND Tract Society

GRANT OF EASEMENT  
 Town SHAWANGONIC  
 Village  
 City  
 No. 607  
 Watchtower Bible & Tract Society of New York Inc  
 Central Hudson Gas & Elec Corp  
 Dated June 1, 1995  
 Map 99.002 BL 1 2019  
 C033A16, L2518A1R  
 W.O. No. L207 A1R, L209A1R  
 Red Mills Rd.  
 Line C H 10 S 33, C H 10547, C H 10536

County Clerk's Office  
 Received on the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_  
 at \_\_\_\_\_ H. \_\_\_\_\_ M. \_\_\_\_\_ M. Recorded in  
 Book No. \_\_\_\_\_ of Deeds  
 on page \_\_\_\_\_ and examined

Leaving this space for Recording Office  
 RECORD & RETURN  
 Fee TO Clerk  
 No. \_\_\_\_\_  
 CENTRAL HUDSON GAS & ELECTRIC CORP.  
 284 SOUTH AVENUE  
 POUGHKEEPSIE, N.Y. 12601  
 ATTENTION: BUREAU  
 RECORD AND RETURN TO  
 CENTRAL HUDSON GAS & ELEC. CORP.  
 284 South Avenue,  
 Poughkeepsie, N.Y. 12602

2  
337  
Form No. 411 (Rev. 6/72)

In consideration of the sum of \$1.00 and other valuable considerations, the receipt whereof from Central Hudson Gas & Electric Corporation, a domestic corporation having its principal office (residence) at 284 South Avenue, Poughkeepsie, New York and HIGHLAND TELEPHONE COMPANY, a domestic corporation having its principal office (residence) at 195 N. MAIN ST, MONROE, N.Y. is hereby acknowledged, the undersigned hereby grant(s) and convey(s) unto said corporation (s), and each of them, their respective successors, assigns and lessees, an easement for any use relating to the electric, gas or communication industry, including, but not limited to, the installation, operation and maintenance of overhead and/or underground electric, gas or communication facilities which easement shall be 20 feet in width throughout its extent, in, upon, under, over and across the lands of the undersigned, including roads and highways thereon and adjacent thereto, situated in the TOWN of SHAWANGUNK County of ULSTERY State of New York.

Said easement shall extend from the property-line of \_\_\_\_\_ on the \_\_\_\_\_ side of \_\_\_\_\_ to \_\_\_\_\_ on the \_\_\_\_\_ side of \_\_\_\_\_.

Together with the permanent right at all times to have access thereto across the remaining premise of the undersigned, and to enter thereon and to construct, excavate, relocate, operate and maintain and to protect, repair, replace and remove, in, over and under the property covered by said easement, such facilities, including, but not limited to, lines or poles, cables, crossarms, wires, guys, braces, underground conduits, pipes, mains and ducts, and all other appurtenances and fixtures adaptable to the present and future needs, uses and purposes of said corporations, their respective successors, assigns and lessees, and provided that physical damage to the property owned by the undersigned caused solely by said corporations, their respective successors, assigns or lessees, shall be adjusted at the expense of the person or entity so causing such damage.

Together with the permanent right also to trim, cut and remove at any time such brush, trees and other objects thereon and on adjacent property of the undersigned, as in the sole judgement of said corporations, their respective successors, assigns and lessees, may interfere with, obstruct or endanger the construction, operation or maintenance of said right, facilities and other appurtenances and fixtures or any thereof, which may hereafter be constructed in, over, or across said easement. Said right shall include the right to use chemical means of brush and tree removal only within the limits of said easement, and then only when such does not interfere with the right of the undersigned to cultivate the ground as hereinafter set forth.

The exact location of said easement and lines is to be as determined by said corporations having regard to the original general direction and destination of said facilities and the requirements of said corporations.

Reserving unto the undersigned the right to plant and cultivate lawn grass and low growing ornamental shrubbery and trees on the \_\_\_\_\_ side of \_\_\_\_\_ and across that no house or other structures shall be erected and no excavating, mining or blasting shall be undertaken within the limits of said easement without written consent of said corporations or their respective successors, assigns or lessees.

The terms hereof shall be binding upon and inure to the benefit of the heirs, legal representatives, successors, assigns and lessees of and as they apply to the undersigned and said corporations, respectively.  
Signed, sealed and delivered, on June 1, 1995, in the presence of \_\_\_\_\_  
\_\_\_\_\_ (Notary Public)  
Residing at: 124 Columbia Heights  
Brooklyn, NY

INDIVIDUAL ACKNOWLEDGMENT  
STATE OF NEW YORK

County of \_\_\_\_\_ ss.:  
On this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, before me, the subscriber, personally appeared \_\_\_\_\_ to me personally known and known to me to be the individual(s) described in and who executed the foregoing instrument, and \_\_\_\_\_ he \_\_\_\_\_ (severally) duly acknowledged to me that \_\_\_\_\_ he \_\_\_\_\_ executed the same.

CORPORATION ACKNOWLEDGMENT  
STATE OF NEW YORK

County of KINGS ss.:  
On this 1st day of JUNE, 19 95, before me personally appeared \_\_\_\_\_ to me known, who being by me duly sworn, did depose and say that he resides at Brooklyn, NY; that he is the Vice President of \_\_\_\_\_ the corporation described in and which executed the above instrument; that he affixed the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the board of directors of \_\_\_\_\_ and that he is duly authorized to execute the same; and that he is personally acquainted with \_\_\_\_\_ and knows said person(s) to be the person(s) described in and who executed the foregoing instrument; that he, the said subscribing witness, was present and saw the said person(s) execute the same and that \_\_\_\_\_ he \_\_\_\_\_ (severally) duly acknowledged to him, the said subscribing witness, that \_\_\_\_\_ he \_\_\_\_\_ executed the same and that he thereupon subscribed his name as witness thereto.

ACKNOWLEDGMENT BY SUBSCRIBING WITNESS  
STATE OF NEW YORK

County of \_\_\_\_\_ ss.:  
On this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, before me personally came \_\_\_\_\_ (subscribing witness) with whom I am personally acquainted, to me known and known to me to be the subscribing witness to the foregoing instrument, who, being by me duly sworn, did depose and say that he resides in \_\_\_\_\_ that he is personally acquainted with \_\_\_\_\_ and knows said person(s) to be the person(s) described in and who executed the foregoing instrument; that he, the said subscribing witness, was present and saw the said person(s) execute the same and that \_\_\_\_\_ he \_\_\_\_\_ (severally) duly acknowledged to him, the said subscribing witness, that \_\_\_\_\_ he \_\_\_\_\_ executed the same and that he thereupon subscribed his name as witness thereto.

J823564  
LAWHTOWER B&B Tract  
Society  
GRANT OF EASEMENT  
Town SHAWANGUNK  
Village  
City

Wachtower B&B Tract  
TO Society of New York  
Central Hudson  
Gas & Elec Corp  
Dated 1 June 1995  
Map 99.4 Block 1 Lots 8+11  
W.O.No. 0404A  
Line CH10307

County Clerk's Office  
Received on the \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_  
at \_\_\_\_\_ H. \_\_\_\_\_ M. \_\_\_\_\_ M. Recorded in  
Book No. \_\_\_\_\_ of Deeds  
on page \_\_\_\_\_ and examined  
Leaving the space for Recording Office  
RECORD & RETURN  
TO  
RECORDING OFFICE  
301 SOUTH AVENUE  
POUGHKEEPSIE, N.Y. 12601  
ATTENTION: RECORDS SECTION  
RECORD AND RETURN TO  
CENTRAL HUDSON GAS & ELEC. CORP.  
284 South Avenue,  
Poughkeepsie, N.Y. 12602

Deeds/Mortgages-Name Search Results  
Certified from Jan 01 1984 through Dec 14 2007

Research  
County Clerk  
Nina Postupack  
Ulster County Clerk's Office



On this 23d day of October, 1930, before me personally came

--- H. B. HEWITT ---  
(subscribing witness)

with whom I am personally acquainted, to me known and known to me to be the subscribing witness to the foregoing instrument, who, being by me duly sworn, did depose and say that he resides in City of Newburgh, that he is personally acquainted with Anne & Frank Gillespie, and knows said persons to be the persons described in and who executed the foregoing instrument; that he, the said subscribing witness, was present and saw the said persons execute the same and that they (severally) duly acknowledged to him, the said subscribing witness, that they executed the same and that he thereupon subscribed his name as witness thereto.

C. D. Swing  
Notary Public, Orange Co.  
Certificate filed in Ulster County.

A true record entered  
June 20, 1931 at 9 A. M.

//////////////////////////////////// Clerk.

In consideration of the sum of \$1.00/no paid to the undersigned by Central Hudson Gas & Electric Corporation, the receipt whereof is hereby acknowledged, the undersigned hereby grant and convey unto said corporation, its successors and assigns, an easement and right of way six feet in width throughout its extent, in, upon, over and across the lands of the undersigned, including roads thereon and adjacent thereto, situated in the Town of Shawangunk, County of Ulster, State of New York, the exact location thereof to be selected by said corporation after its final surveys have been made.

Right to build pole line on undersigned property on the West side of highway as staked, (Dwaarkill - Red Mills Road ) Between the property of John Meredith Sr. and Tumble.

Together with the right at all times to enter thereon and to have access thereto and to construct, operate and maintain thereon and to repair, replace, protect and remove, line of poles, cables, cross arms, guys, braces and all other appurtenances or fixtures adapted to the present and future needs, uses and purposes of said corporation, its successors, assigns and lessees.

Together with the right also to trim, cut and remove at any time such trees and other objects thereon and on adjacent property of the undersigned, as in the judgment of said corporation, its successors, assigns and lessees, may interfere with, obstruct or endanger the construction, operation or maintenance of said rights, lines and fixtures or any thereof.

Reserving unto the undersigned the right to cultivate the ground between said poles and beneath said wires and fixtures, provided that such use of said ground shall not interfere with, obstruct or endanger any of the rights granted as aforesaid; and provided that damage to the property owned by the undersigned caused solely by said corporation, its successors, assigns or lessees, in maintaining or repairing said lines shall be adjusted at the expense of said corporation, its successors, assigns or lessees.

The provisions hereof shall apply to and bind the heirs, legal representatives successors, assigns and lessees of the undersigned and said corporation, respectively.

Signed, sealed and delivered on Oct. 27, 1930.

611d-255

the said subscribing witness, was present and saw the said person execute the same and that he duly acknowledged to her, the said subscribing witness, that he executed the same and that she thereupon subscribed her name as witness thereto.

Frederick W. Snyder  
Notary Public

A true record entered  
July 29, 1933 at 9-40 A. M.

*[Signature]* Clerk

In consideration of the sum of One Dollar and other valuable considerations, the receipt whereof from Central Hudson Gas and Electric Corporation is hereby acknowledged, the undersigned hereby grant and convey unto said corporation, its successors and assigns, an easement and right of way in, upon, over, under and across the lands of the undersigned including the roads and highways thereon and adjacent thereto, situate in the Town of Shawangunk County of Ulster, State of New York On the Dvaarkill-Brunswick Cross Road

Together with the right at all times to enter thereon and have access thereto and to construct, relocate, operate and maintain thereon, and to repair, replace, protect and remove a line of poles, cables, crossarms, guys, braces, underground conduits and all other appurtenances or fixtures adapted to the present or future needs, uses and purposes of said corporation its successors, assigns and lessees.

Together with the right also to attach guy wires to trees on said property, and to trim, cut and remove trees and other objects thereon so as to provide a clearance of 6 feet from the property of the corporation.

Said easement and line shall extend from the property line of Fred Merideth on the West to the property line of Ida Mance on the East

The exact location of said easement and line to be as determined by said corporation having regard to the origin, general direction and destination of said line and the requirements of said corporation.

Provided, however, that this right of way shall be void and of no effect unless construction hereunder is commenced on the property covered hereby on or before one year from the date hereof.

The provisions hereof shall apply to and bind the heirs, legal representatives, successors, assigns and lessees of the undersigned and of said corporation respectively.

Signed, sealed and delivered, on July 19, 1933.  
In the presence of :  
John Mac Horton

Miss Helena M. Schwarz(Heir) (L.S.)  
Amelia C. Hansen (Heir) (L.S.)

STATE OF NEW YORK:  
COUNTY OF ULSTER :SS.:

On this 20 day of July, 1933, before me personally came

--- JOHN MAC HORTON ---

with whom I am personally acquainted, to me known and known to me to be the subscribing witness to the foregoing instrument, who, being by me duly sworn, did depose and say that he resides in New Paltz, that he is personally acquainted with Miss Helena M. Schwarz and Mrs. Amelia C. Hansen and knows said persons to be the persons described in and who executed the foregoing instrument; that he, the said subscribing witness, was present and saw the said persons execute the same and that they (severally) duly acknowledged to him, the said subscribing witness, that they executed the same and that he thereupon subscribed his name as witness thereto.

Cora J. Lawrence  
Notary Public

A true record entered  
July 29, 1933 at 9-40 A. M.

5664198

*[Signature]* Clerk

In consideration of the sum of One Dollar (\$1.00) and other valuable considerations, the receipt whereof from Central Hudson Gas and Electric Corporation, AND THE NEW YORK TELEPHONE COMPANY is hereby acknowledged, the undersigned hereby grants and conveys unto said corporations, and either of them, their respective successors, assigns and lessees, an easement and right-of-way in, upon, over, under and across the lands of the undersigned including the roads and highways thereon and adjacent thereto, situate in the Town of Ulster County of Ulster, State of New York, along Mount Marion-Sawkill Road

Together with the right at all times to enter thereon and have access thereto and to construct, relocate, operate and maintain thereon, and to repair, replace, protect and remove a line of poles including cables, wires, crossarms, guys, braces, underground conduits and all other appurtenances or fixtures adapted to the present or future needs, uses and purposes of said corporations, their respective successors, assigns and lessees.

Together with the right also to attach guy wires to trees on said property, and to trim, cut and remove trees and other objects thereon so as to provide a clearance of six feet from the property of said corporations.

Said easement and line shall extend from the property line of Joseph and Theresa Cully on the North to the property line of Margaret Furan on the South

The exact location of said easement and line to be as determined by said corporations having regard to the origin, general direction and destination of said line and the requirements of said corporations.

Provided, however, that this right of way shall be void and of no effect unless construction hereunder is commenced on the property covered hereby on or before one year from

B.O.  
P.O.  
97. 9/11/33

B.O.  
P.O.  
97. 9/11/33

*127*  
*S.M.D.* A true record entered  
Apr. 13, 1925 at 3.48 P.M.

*J. M. Fair*  
Clerk

THIS INDENTURE, made the 10th day of April, Nineteen Hundred and twenty six,  
BETWEEN JOHN MEREDITH, widower, of the Town of Shawangunk, County of Ulster, State of New York, party of the first part, and

EDWARD B. EDWARDS and AMELIA F. EDWARDS, his wife, of #127 West 12th Street, New York City, parties of the second part;

WITNESSETH, that the party of the first part, in consideration of One Dollar (\$1.00) lawful money of the United States, and other good and valuable consideration paid by the parties of the second part, does hereby grant and release unto the parties of the second part, their heirs and assigns forever,

ALL THAT TRACT OR PARCEL OF LAND situate in the town of Shawangunk, County of Ulster, and State of New York, BEGINNING at a point on the center line of road leading from BRUYNSWICK to RED MILLS, and on the Southwesterly bounds of lands of Robert Meredith, Then South Thirty five degrees and thirty minutes East, One thousand four hundred and fourteen (1414) feet, along lands of said Robert Meredith to center line of SHAWANGUNK KILL, Then South fifty seven degrees West, one hundred and fifty (150) feet along center line of said Shawangunk Kill, then South eight degrees east two hundred and sixty six (266) feet along center line of said Shawangunk Kill, then South forty three degrees and fifteen minutes east, three hundred and ninety four (394) feet along center line of Shawangunk Kill, then South forty two degrees West, two hundred (200) feet along center line of said Shawangunk Kill, then South eighty one degrees and fifteen minutes west, nine hundred and thirty (930) feet, along center line of said Shawangunk Kill, then south twenty-three degrees and forty five minutes west two hundred ninety-two (292) feet along center line of said Shawangunk Kill, to a point on center line of said Shawangunk kill, then North forty three degrees west two thousand one hundred and two (2102) feet, along some marked stumps and stone fence to the center line of road leading from BRUYNSWICK to RED MILLS, then North eighty six degrees east five hundred and ninety four (594) feet along center line of said road, then South eighty nine degrees and thirty minutes east two hundred and seventy-six (276) feet along center line of said road to a point at lane leading to STONE-HOUSE, then North fifty eight degrees and forty five minutes east, one hundred (100) feet along center line of said road to a point, then North thirty eight degrees and thirty minutes East, seven hundred and seventy two (772) feet along center line of said road to a point, then North fifty seven degrees east one hundred ninety nine (199) feet, along center line of said road to the place of beginning.

Containing sixty-five and one quarter (65.25) acres.

And this property is conveyed by the party of the first part with the right and privilege granted to the parties of the second part to erect a dam on the lands

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BETWEEN WILLIAM M. MEREDITH, FREDERICK M. MEREDITH and JOHN M. MEREDITH, of the Town of Shawangunk, Ulster County, New York, parties of the first part, and

FLORENCE L. REIS of Morota, New Jersey, party of the second part.

WITNESSETH, that the parties of the first part, in consideration of agreement for division of estate and of One dollar (\$1.00) lawful money of the United States, paid by the party of the second part, do hereby grant and release unto the party of the second part, his heirs and assigns forever,

ALL THAT TRACT OR PARCEL OF LAND, situated, lying and being in the Town of Shawangunk, County of Ulster and State of New York, BEGINNING at a point in the center of the long lane and the west corner of land of Mrs. John R. Jansen, then north sixty two degrees and thirty minutes west (N. 62° 30' W.) thirty nine chains and forty seven links (39 ch. 47 L.) along the center line of the long lane to the Hogberg road and in the same direction along land of Joshua Birch to a corner of fence, thence south thirty degrees and forty five minutes west (S 30° 45' W.) two chains and ninety links (2 ch. 90 L) along land of Joshua Birch to a corner of fence. thence north sixty two degrees west (N. 62° W.) twenty five chains and ten links (25 ch. 10 L.) along land of Joshua Birch to land of John Merrideth, then south forty three degrees west (S. 43° W) twelve chains and three links (12 ch. 3 L) along land of John Merrideth to a corner of fence, then south sixty one degrees and forty five minutes east (S. 61° 45' E) thirty four chains and ten links (34 ch. 10 L) along land of John Merrideth to the center line of Houghgoughburgh road, then south seventy eight degrees and fifteen minutes west (S. 78° 15' W)

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three chains (3 ch.) to a bend in the road, then south fifty eight degrees and fifteen minutes west (S. 58° 15' W.) five chains and ten links (5 ch. 10 L) to a corner of land of John Merrideth in the road; then south sixty two degrees east (62° E.) thirty eight chains (38 ch.) along land of John Merrideth and Mrs. John R. Jansen to a lane or right of way of Mrs. John R. Jansen, then north twenty eight degrees and fifteen minutes east (N. 28° 15' E.) One chain (1 ch) along the lane, then south sixty two degrees east (S. 62° E) fifty links (50 L) along the lane to land of Mrs. John R. Jansen, then north twenty eight degrees and fifteen minutes east (N. 28° 15' E.) twenty chains and thirty five links (20 ch. 35 L.) along land of Mrs. John R. Jansen to the place of beginning.

Containing one hundred and twelve acres and eight tenths of an acre (112.8) more or less.

Being the same property as conveyed to the late John Meredith by deed of Hassie A. Tillson and Elizabeth, his wife, dated June 22, 1921, and recorded in Ulster County Clerk's Office on the 29th day of October, 1923, in Book No. 499 of Deeds at page 577; the will of said Meredith having been probated in the Ulster County Surrogate's Office January 17, 1933, and the parties hereto being his children and devisees.

TOGETHER with a right of way for foot and vehicle passage from the rear of the property herein described to the kill or creek to be located as the majority of the parties hereto shall determine, but in general to be a lane about three rods wide running for a distance along the west side of and then along the south side of the John M. Meredith farm and giving easy access to the kill.

TOGETHER with the appurtenances and all the estate and rights of the parties of the first part in and to said premises.

three chains (3 ch.) to a bend in the road, then south fifty eight degrees and fifteen minutes west (S. 58° 15' W.) five chains and ten links (5 ch. 10 L) to a corner of land of John Merrideth in the road; then south sixty two degrees east (62° E.) thirty eight chains (38 ch.) along land of John Merrideth and Mrs. John R. Jansen to a lane or right of way of Mrs. John R. Jansen, then north twenty eight degrees and fifteen minutes east (N. 28° 15' E.) One chain (1 ch) along the lane, then south sixty two degrees east (S. 62° E) fifty links (50 L) along the lane to land of Mrs. John R. Jansen, then north twenty eight degrees and fifteen minutes east (N. 28° 15' E.) twenty chains and thirty five links (20 ch. 35 L.) along land of Mrs. John R. Jansen to the place of beginning.

Containing one hundred and twelve acres and eight tenths of an acre (112.8) more or less.

Being the same property as conveyed to the late John Meredith by deed of Hattie A. Tillson and J. Elizabeth, his wife, dated June 22, 1921, and recorded in Ulster County Clerk's Office on the 29th day of October, 1923, in Book No. 499 of Deeds at page 577; the will of said Meredith having been probated in the Ulster County Surrogate's Office January 17, 1933, and the parties hereto being his children and devisees.

TOGETHER with a right of way for foot and vehicle passage from the rear of the property herein described to the kill or creek to be located as the majority of the parties hereto shall determine, but in general to be a lane about three rods wide running for a distance along the west side of and then along the south side of the John M. Meredith farm and giving easy access to the kill.

TOGETHER with the appurtenances and all the estate and rights of the parties of the first part in and to said premises.

TO HAVE AND TO HOLD the premises herein granted unto the party of the second part, her heirs and assigns forever.

AND the parties of the first part covenant that they have not done or suffered anything whereby the said premises have been incumbered in any way whatever.

IN WITNESS WHEREOF, the parties of the first part ha\_ hereunto set their hands and seals the day and year first above written.

In Presence of:

Wm. B. Meredith (L.S.)  
 Fred W. Meredith (L.S.)  
 John M. Meredith (L.S.)

\$2.50 I. N. Stamp cancelled.

STATE OF NEW YORK:  
 COUNTY OF ULSTER :SS.:

~~SEAMAN~~

LIBER 2868 PAGE 0106

**DESCRIPTION OF DISCONTINUED SECTION OF RED MILLS ROAD  
SECTION "C"  
(Through Watchtower Property)**

A parcel of land for discontinuance, formerly the right-of-way of a portion of Red Mills Road in the Town of Shawangunk, County of Ulster, New York. Said discontinued portion is described as follows:

All that portion of the original Red Mills Road lying between the right-of-way dedicated by Watchtower for the new extension from Red Mills Road to Bruyn Turnpike and the right-of-way dedicated by Watchtower for a connection between said new extension and a section of the old original Red Mills Road. Said portion of the road to be discontinued is approximately 210 feet long as measured along the centerline and is designated Section "C" on a Right-of-Way Map prepared by Ralph C. Stribling, L.S. dated September 25, 1998.

2856  
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**SCHEDULE "A"**  
**RIGHT OF WAY DESCRIPTION**  
**(Through Watchtower Property)**

**PARCEL I**

A parcel of land for public road right-of-way purposes to connect Bruyn Turnpike to Red Mills Road. Said right-of-way as it crosses Watchtower property is described as follows:

In the Town of Shawangunk, County of Ulster, State of New York commence at a point on the property line dividing Watchtower property from property of Ruth Guffee, said point being N 42° 47' 21" W (called N 26° 58' 40" W in the Watchtower deed description from Seaman) 70.01 feet from an iron stake marking the northwest corner of the former Calvi property for a point of beginning. Said point lies 25 feet right of centerline station 13 + 24.24 of the said connecting road as shown on the plans on file at the Office of the Town Highway Supervisor.

Thence continue N 42° 47' 21" W along said property line 59.54 feet to a point 25 feet left of centerline station 12 + 91.92; thence N 80° 05' 05" E 112.15 feet to a point 25 feet left of centerline station 14 + 04.07 P.C.; thence along a counter-clockwise curve (with radius 1016.74 feet, central angle 40° 21' 05") a distance along the arc of 716.06 feet to a point 25 feet left of centerline station 21 + 37.73 P.T. (the end point of the centerline of the roadway right-of-way herein described, said centerline point coinciding with the centerline of the existing Red Mills Road); thence S 50° 16' E 50.0 feet to a point 25 feet right of the said centerline station 21 + 37.73 P.T.

Thence along a clockwise curve (with radius 1066.74 feet, central angle 40° 21' 05") a distance along the arc of 751.27 feet to a point 25 feet right of centerline station 14 + 04.07 P.C.; thence S 80° 05' 05" W 79.83 feet to a point 25 feet right of centerline station 13 + 24.24, which point is the point of beginning.

**PARCEL II**

AND ALSO, a roadway right-of-way connecting the new roadway described herein with a portion of the existing Red Mills Road, as shown on the aforesaid Roadway Plans. This right-of-way is described as follows:

Commence at a point 25 feet right of station 17 + 00 of the aforementioned new roadway for a point of beginning; thence northeasterly along the curved right-of-way line of the new road as described herein-above 25 feet; thence S 26° 04' 53" E 37.93 feet to the beginning of a clockwise curve; thence along said curve (with radius 85.0 feet, central angle 65° 29' 29") a distance along the arc of 97.16 feet to a point approximately 25 feet from the centerline of the existing Red Mills Road; thence N 50° 35' 24" W 50.0 feet (crossing the centerline of Red Mills Road at the midway point of this line) to a point 25 feet from the said centerline of Red Mills Road; thence along a counter-clockwise curve (with radius 35.0 feet, central angle 65° 29' 29") a distance along the arc of 40.01 feet; thence N 26° 04' 53" W 37.93 feet to the right-of-way line of the new road; thence northeasterly along said curved right-of-way line 25 feet to the point of beginning.

THE UNDERSIGNED, hereinafter called the GRANTOR, being the owner of or having an interest in land situate in the Town of Shawangunk, County of Ulster, State of New York, fronting on the street or highway known as Beck Road to Pine Bush and bounded southwesterly by the land of Albert Wood and northeasterly by the land of William R. Meredith.

IN CONSIDERATION of \$1.00 paid by the Grantee, hereby grants and releases unto the New York State Electric & Gas Corporation a corporation organized under the laws of the State of New York, having its principal office at Ithaca, New York, herein called the GRANTEE, its successors and assigns, the right, privilege and authority to construct, reconstruct, extend, operate, inspect, maintain and at its pleasure remove, a pole line with the necessary wires, cross arms, guy wires, braces and other fixtures or appurtenances used or adopted for the transmission and/or distribution of electric current for public or private use, upon and over said land and property and/or the highways abutting or running through said land. Line runs in general northeasterly direction, with one pole and anchor guy along the cow yard fence, and next pole in pasture lot beyond field in the rear of barn, with no poles in the field in rear of barn, thence continuing in same direction to highway.

TOGETHER with the right to trim, cut and remove trees and brush to the extent necessary to clear said wires and pole line by at least fifteen (15) feet.

PROVIDED, however, that any damage (other than for trimming, cutting or removing trees, as above provided) to the property of the Grantor, caused by the Grantee in constructing or repairing said line, shall be borne by the Grantee.

Dated this 8th day of September, 1938.

IN PRESENCE OF:  
E. H. Emerson

Andrew Burkinshaw (I.C.)  
Jeannette I. Burkinshaw (I.C.)

STATE OF NEW YORK  
COUNTY OF ORANGE SS.:

On this 9 day of March, 1939, before me personally came

--- E. H. EMERSON ---  
the subscribing witness to the foregoing instrument, with whom I am personally acquainted, who being by me duly sworn, did depose and say that he resides in Malden, N. Y. that he knew Andrew Burkinshaw and Jeannette I. Burkinshaw to be the individuals described in and who executed the foregoing instrument; that he, said subscribing witness, was present and saw them execute the same; and that he, said witness, at the same time, subscribed his name as witness thereto.

(SEAL) Thomas Lance, Jr.  
Notary Public.

STATE OF NEW YORK  
ORANGE COUNTY CLERK'S OFFICE SS.:

I, CHARLES E. DUSENBERRY, Clerk of Orange County, and also Clerk of the County Court of said County, and one of the Clerks of the Supreme Court of said State (Court of Record), do hereby certify that

--- THOMAS LANCE, JR. ---  
whose name is subscribed to the Certificate of the Proof of Acknowledgment of the annexed Instrument and thereon written, was, at the time of taking such Certificate of Proof or Acknowledgment a NOTARY PUBLIC in and for said County, dwelling in said County, commissioned and sworn, and duly authorized to take the same; and further that I am well acquainted with the handwriting of said NOTARY, and verily believe that the signature to the said Certificate or proof of Acknowledgment is genuine.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the Seal of the said Courts and County, at Goshen, this 18th day of January, 1940.

(SEAL) C. E. Dusenberry, Clerk.

A true record entered  
Jan. 24, 1940 at 9 A. M.

*ms  
3/15*

*Charles E. Dusenberry*  
Clerk

THE UNDERSIGNED, hereinafter called the GRANTOR, being the owner of or having an interest in land situate in the Town of Shawangunk, County of Ulster, State of New York, fronting on the street or highway known as Mandell Road and bounded southeasterly by the land of LeVelle and northwesterly, by the land of Evans Estate.

IN CONSIDERATION of \$1.00 paid by the Grantee, hereby grants and releases unto the NEW YORK STATE ELECTRIC & GAS CORPORATION, a corporation organized under the laws of the State of New York, having its principal office at Ithaca, New York, herein called the GRANTEE, its successors and assigns, the right, privilege, and authority to construct, reconstruct, extend, operate, inspect, maintain, and at its pleasure, remove, a pole line with the necessary wires, cross arms, guy wires, braces and other fixtures or appurtenances used or adopted for the transmission and/or distribution of electric current for public or private use, upon and over said land and property, and/or the highways abutting or running through said land. Line to follow along the southerly side of road with pole line between road and stone wall.

TOGETHER with the right to trim, cut, and remove trees and brush to the extent necessary to clear said wires and pole line by at least (10) ten feet.

PROVIDED, however, that any damage (other than for trimming, cutting, or removing trees, as above provided) to the property of the Grantor, caused by the Grantee in constructing or repairing said line, shall be borne by the Grantee.

Dated this 4th day of August, 1938.

IN PRESENCE OF:  
E. H. Emerson

Ruth P. Belden (I.C.)



Across K & A

**PRIVILEGE**

LEN 876 VOL 279

WE, DAVID B. BRUNDAGE and CAROLINE MAY BRUNDAGE, residing at R. F. D. Wallkill, New York, parties of the first part, do hereby grant unto ARTHUR D. PENNY and MARGUERITE T. PENNY, residing at 101 Coles Avenue, Hackensack, New Jersey, the parties of the second part, the privilege to cross on foot only the lands herein described.

This privilege is limited to an area generally on each side of a line running from an iron set on the southerly line of the lands this day conveyed by Brundage to Penny, running thence through two (2) apple trees to a point on the northerly bank of the Shawangunk Kill.

Said area is located in the Town of Shawangunk, Ulster County, New York, and a part of the lands known as the Grier Estate as described in a deed from Charles Allan Grier to David B. Brundage and Caroline May Brundage, dated October 8, 1953 and recorded in the Ulster County Clerk's Office on October 8, 1953 in Liber 871 of deeds at page 452.

This privilege is for the purpose of providing access to the Shawangunk Kill for swimming and fishing at the point designated herein, subject to the use of said area by Brundage aforesaid for pasturing animals and other general farm uses.

This privilege shall at most continue as long as David B. Brundage and Caroline May Brundage shall own any part of the lands herein referred to as the Grier Estate and shall cease immediately when either of them dies, transfers his interest in the premises known as the Grier Estate or leases said premises.

This privilege shall at most continue as long as Arthur D. Penny and Marguerite T. Penny shall own the main house on the lands herein referred to as the Grier Estate and shall cease immediately when they transfer their ownership of the premises known as the main house on the Grier Estate.

And the said party of the first part does covenant with the party of the second part that she has not done or suffered anything whereby the said premises have been encumbered in any way whatever.

IN WITNESS WHEREOF, The said party of the first part has hereunto set her hand and seal the day and year first above written.

In the Presence of:  
Isidor Sampson

Katherine Diehl (L.S.)

STATE OF NEW YORK:  
COUNTY OF ULSTER 1932:

On this Ninth day of April, in the year One thousand nine hundred and thirty-two, before me, the subscriber, personally came,

---- KATHERINE DIEHL ----  
to me known and known to me to be the person described in and who executed the foregoing Instrument, and duly acknowledged that she executed the same.

Isidor Sampson,  
Notary Public.

A true record entered  
Apr. 23, 1932, at 11-10 A. M.

*Isidor Sampson* Clerk.

In consideration of the sum of One Dollar and other valuable considerations, the receipt whereof from Central Hudson Gas and Electric Corporation is hereby acknowledged, the undersigned hereby grant and convey unto said corporation, its successors and assigns, an easement and right of way in, upon, over, under and across the lands of the undersigned including the roads and highways thereon and adjacent thereto, situate in the Town of Shawangunk, County of Ulster, State of New York, David L. Brundage Place on Red Mills Road.

Together with the right at all times to enter thereon and have access thereto and to construct, relocate, operate and maintain thereon, and to repair, replace, protect and remove a line of poles, cables, crossarms, guys, braces, underground conduits and all other appurtenances or fixtures adapted to the present or future needs, uses and purposes of said corporation its successors, assigns and lessees.

Together with the right also to attach guy wires to trees on said property, and to trim, cut and remove trees and other objects thereon so as to provide a clearance of 6 feet from the property of the corporation.

Said easement and line shall extend from the property line of Abner Birch on the north to the property line of L. M. Weed on the south.

The exact location of said easement and line to be as determined by said corporation having regard to the origin, general direction and destination of said line and the requirements of said corporation.

Provided, however, that this right of way shall be void and of no effect unless construction hereunder is commenced on the property covered hereby on or before one year from the date hereof.

The provisions hereof shall apply to and bind the heirs, legal representatives, successors, assigns, and lessees of the undersigned and of said corporation respectively.

Signed, sealed and delivered on April 14, 1932.

In the Presence of:  
W. J. Cooper

David L. Brundage (L.S.)  
Residing at Walkkill, N.Y.  
Caroline May Brundage (L.S.)  
Residing at Walkkill, N.Y.

STATE OF NEW YORK:  
COUNTY OF ULSTER 1932:

On this 14th day of April, 1932, before me personally came,

---- W. J. COOPER ----

with whom I am personally acquainted to me known and known to me to be the subscribing witness to the foregoing instrument, who, being by me duly sworn, did depose and say that he resides in New Paltz, N.Y., that he is personally acquainted with David L. Brundage and Caroline May Brundage and knows said persons to be the persons described in and who executed the foregoing instrument, that he, the said subscribing witness, was present and saw the said persons execute the same and that they severally duly acknowledged to him, the said subscribing witness, that they executed the same and that he thereupon subscribed his name as witness thereto.

D. G. Lawrence,  
Notary Public

Certificate filed in Ulster County.

A true record entered  
Apr. 25, 1932, at 10-55 A. M.

*Isidor Sampson* Clerk.

724 REC 346

# This Indenture,

Made the 14th - - - - - day of January - - - - - , nineteen

hundred and forty-nine.

Between EMIL VAN DER ESSEN and BERTHA VAN DER ESSEN of (no street or number) Dwaerskill, Town of Shawangunk, County of Ulster, New York, - - - - -

- - - - - parties of the first part, and  
BERT A. LOCKWOOD and VIOLET BANKS LOCKWOOD of (no street or number) Pine Bush, Orange County, New York, - - - - -

- - - - - parties of the second part:

Witnesseth, that the parties of the first part, in consideration of FIVE - - - - - Dollars,

lawful money of the United States, and other good and valuable considerations - - - - - paid by the parties of the second part, do hereby grant and release unto the parties of the second part, their legal representatives, distributees - - - - - and assigns forever,

All that certain piece or parcel of land situate, lying and being in the Town of Shawangunk, County of Ulster, State of New York, bounded and described as follows:

BEGINNING at an iron pipe set in a stone wall corner said pipe being a Southwest corner of lands of Goebel and being the Northeast corner of the lands herein to be described and runs from thence along the lands of Goebel and following a stone wall North forty (40) degrees no (00) minutes West four hundred forty-five and five tenths (445.5) feet to an iron pipe set in a stone wall corner being a Northeast corner of lands of Vanderessen, thence along the lands of Vanderessen and following a stone wall South forty-nine (49) degrees forty-five (45) minutes West five hundred eighty-six and five tenths (586.5) feet to an iron pipe, thence further along the lands of Vanderessen South forty (40) degrees no (00) minutes West four hundred forty-five and five tenths (445.5) feet to an iron pipe set in a stone wall in the line of lands of Goebel, thence along the

lands of Goebel and following a stone wall North forty-nine (49) degrees forty-five (45) minutes East five hundred eighty-six and five tenths (586.5) feet to the place of beginning. Containing six (6.00) acres of land be the same more or less.

TOGETHER with a right of way for ingress and egress, pedestrian and vehicles of all kinds, which right of way runs in a generally northerly direction from the Town Highway, commonly known as the back road to Bruynswick, thence across other lands of the grantors to the premises herein granted and which right of way is sixteen (16) feet in width and is in the approximate center of other land of the grantors which lands lie southerly of the lands herein granted and said right of way is to remain at the location where it is now laid out.

721 317

RECORDED  
INDEXED

