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Greenhouse
2008

PHASE 1B HISTORICAL AND ARCHAEOLOGICAL SURVEY (Field testing)
419 WOODROW ROAD
STATEN ISLAND, NEW YORK
07PR04224

CEQR No. 09DCP006R
Woodrow Road Residential
Staten Island

Prepared for:
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Staten Island, New York 10309

CEQR 09DCP006R

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April 2008

1090

MANAGEMENT SUMMARY

SHPO Project Review Number:	07PR04224
Government Agencies:	Office of Parks, Recreation and Historic Preservation, Department of Environmental Conservation
Phase of Survey:	Phase 1

Location Information

Location:	Staten Island, Greenridge
Minor Civil Division:	n/a
County:	Richmond

Survey Area

Length:	1029 feet/313.6m.
Width:	459 feet (139.9m)
Depth:	n/a
Number of Acres Surveyed:	657,750 square feet (6.1 hectares)

USGS 7.5 Minute Quadrangle Map:	1981 Arthur Kill, NJ-NY

Archaeological Survey Overview

Number & Interval of Shovel Tests:	104 tests completed @ 50 ft (15m) interval, 16 tests @ 10 ft (3m) interval, 16 tests @ 3 ft (0.9m) interval
Number & Size of Units:	n/a
Width of Plowed Strips:	n/a
Surface Survey Transect Interval:	n/a

Results of Archaeological Survey

Number & name of prehistoric sites identified:	0
Number & name of historic sites identified:	0
Number & name of sites recommended for Phase 2 avoidance:	0

Results of Architectural Survey

Number of buildings/structures/cemeteries within project area:	3
Number of buildings/structures/cemeteries adjacent of project area:	0
Number of previously determined NR listed or eligible buildings/structures/cemeteries/districts:	0
Number of identified eligible buildings/structures/cemeteries/districts:	0

Report authors: Crowley, Goldsmith, Inserra

Date of report: April 2008

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LIST OF PERSONNEL

William Goldsmith	-	Principal Investigator Co-author
Paula Crowley	-	Laboratory Director Co-author
Antonella Inserra	-	Field Technician
Kim Croshier	-	State Files

INTRODUCTION

This Phase 1 sensitivity evaluation and archaeological testing documents the potential prehistoric and historic sensitivity of the project area at 419 Woodrow Road, Borough of Staten Island, New York, New York through field inspection and the review of archival, cartographic and published references. A Phase 1 archaeological survey has been requested by the New York State Office of Parks, Recreation and Historic Preservation, Project Review Number 07PR04224, in conjunction with the New York State Department of Environmental Conservation. This survey has been conducted in accordance with the guidelines established by the National Historic Preservation Act, the New York State Department of Environmental Conservation and OPRHP.

The project area is located at 419 Woodrow Road, Staten includes Block 5735, Lot 1. A request was also made for a Building/Structure Inventory Form for 419 Woodrow Road. See Figure 1 for the location of the project area on the United States Geological Survey, Arthur Kill 7.5 minute quadrangle. This project is bounded on the south by Woodrow Road, and 459 feet (139.9m) of frontage. It lies approximately 200 feet (60.9m) east of the former Sherrill Avenue. The property extends north for 1029 feet (313.6m). The lot area is 657,750 square feet (6.1 hectares). The area to be developed is 66,204 square feet (0.6 hectares) in size. Wetlands and open space constitute 300,402 square feet (2.8 hectares). Preliminary plans call for the construction of 47 two-family residences in the southern portion of the project area..

The sensitivity evaluation portion of the report is organized in the following manner: first, an overview of the geography and physical setting of the project area; second, a review of prehistoric findings in the vicinity of the project area; third, a discussion of the historic sensitivity of the project area; and finally, conclusions and recommendations for field testing. In order to provide a context for the evaluation of any resources within the subject parcel, this study provides a synthesis of published and unpublished documentation of prehistoric and historic resources within and around the project area.

The archaeological testing portion of this report is organized as follows: first, a section on field methodology; second, a section on subsurface stratigraphy; third, a discussion of artifact analysis; and fourth, conclusions and recommendations based on the sensitivity evaluation and fieldwork.

GEOGRAPHY AND PHYSICAL SETTING

The principal investigator inspected the project area on foot on December 20, 2007. Construction of the new convent is occurring in the southwestern corner of the project area. A curved drive approached the H-shaped convent. The sections range from one to two stories. A one story garage adjoins the east side of the convent. On the west side of the convent, is an asphalt drive with another garage. An inground swimming pool lies at the rear of the convent. The lawns surrounding the convent are dotted with religious statues and seating. Trees such as oak, ash, pine, tulip, and cherry are among the many species complementing the parklike grounds. The effect is one of calmness and serenity. The grounds slope to the east and to the north. In the northern part of the APE, a wetlands area is encountered and then the area is wooded. The ground slopes upward in the northwest. See Photos 1 through 4 for a view of the convent grounds in the APE.

The open space portion of the project area is separated from the APE by an eight foot fence. Sister Catherine explained that the fence and gate were erected to prevent children from cutting through to get to the stores on Arthur Kill Road (2008 pers. comm.). Once through the gate, the leaf-strewn dirt road, shown on historic maps is apparent. The elevation rises as one moves northward along the road. The land slopes downward to marshland off the eastern rise. Near the northern boundary, a creek meanders east/west across the property. The northern boundary fence stands, but its gate has been knocked down. Lumber and wood thrown over the creek, for the purposes of a footbridge, have created a small dam. Following the creek east to the eastern boundary, the eastern fence has been knocked down. Halfway between the eastern boundary and the dirt road, cemented bricks were found overlooking the south side of the creek. One was embossed *SCHER*. No such feature was observed on the opposite (north) side of the creek. Geismar (1989:7) noted in the 351 Woodrow Road project area, immediately east of the current project area, a small section of the stream's bank had been reinforced by dry-laid bricks. Since the brick location was at a bend in the stream, the same principle may have been employed. Following the creek and northern boundary west from the dirt road, a few scattered bricks were seen on the south side of the creek. A portion of the western fence running to the northern boundary was different from the remaining fence. Several rows of barbed wire were still present on the everted ends, while the remainder of the wiring was missing. The regular fence

existed until a midway point between the APE boundary and the northern boundary, where it had been knocked down. A dirt road entered the property from the western side and dirt paths encircled the elevated area of the northern portion of the project area. Dirt biking activities are the probable cause. South of the western dirt road lies more marshland, which extends westward from the project area. See Photos 5 through 10 for views of the open space portion of the project area.

The project area is located in the Atlantic Coastal Lowland Physiographic Province. The surficial geology consists of landforms and deposits of glacial origin. The southwestern portion of Staten Island consists of terminal moraine overlying sedimentary rocks of the Newark Basin (Benimoff and Ohan 2003).

Soils within the project area as identified by the New York City Reconnaissance Soil Survey (New York City Soil Survey Staff 2005) include the Wethersfield-Ludlow-Wilbraham complex (No. 262), 0 to 8 percent slopes; and the Wethersfield-Foresthills-Pavement & buildings complex (No. 346), 8 to 15 percent slopes. The Wethersfield-Ludlow-Wilbraham complex refers to till plains that are nearly level or are gently sloping. They are relatively undisturbed areas that are mostly wooded. The Wethersfield-Foresthills-Pavement & Buildings complex refers to areas of till plains and hills that are strongly sloping. They have been partially filled for residential use, and 15 to 49 percent of the surface is covered by pavement and/or buildings. Both complexes have red till soils (NYC Soil Survey 2005 :20-21).

Table 1: Project Area Soils

Name	Soil Horizon Depths (in.)	Color	Texture\ Inclusions	Slope	Drainage	Landform
Ludlow series	Ap: 0-8 in. Bw1: 8-20 in. Bw2: 20-26 in. Cd: 26-65 in.	DkBr 7.5YR3/2 Rbr 5YR4/4 DkRBr 5YR3/4 DkRBr 2.5YR3/4	SiLo, 8% gravel SiLo, 10% gravel SiLo, 12% gravel GrLo, 15% gravel, 5% cobbles	0-8%	Moderatel y well drained	Till plains, hills, & moraines

Name	Soil Horizon Depths (in.)	Color	Texture\ Inclusions	Slope	Drainage	Landform
Foresthills series	A: 0-2 in. Bw: 2-15 in. Ab: 15-27 in. BAb: 17-28 in. Bwb: 28-42 in. Cd: 42-60 in.	VDkGrBr 10YR3/2 Br 7.5YR4/4 Bk 10YR2/1 Br 7.5YR4/3 RBr 5YR4/4 YwRed 5YR4/6	Lo 5% gravel, 1% cobbles, 1% stones SiLo 5% gravel, 1% cobbles Lo 1% gravel, 1% cobbles Lo, 5% gravel, 1% cobbles Lo, 5% gravel, 1% cobbles Lo, 5% gravel, 1% cobbles	8-15%	well	Urban fill plains
Wilbraham series	A: 0-4 in. Bw1: 4-8 in. Bw2: 8-20 in. Cd: 20-65 in.	VdkGr 10YR3/1 DkRBr 5YR3/3 RBr 5YR4/4 DkRBr 5YR3/3	SiLo, 10% gravel SiLo, 10% gravel SiLo, 10% gravel, 3% cobbles GrLo, 20% gravel, 5% cobbles	0-8%	Poorly	Low on till plains, hills & moraines
Wethersfield series	A: 0-8cm (0-3in) Bw1: 3-13 in. Bw2: 13-27 in. C: 68-165cm (27-65in)	Dk Br 7.5YR3/2 RBr 5YR4/4 Dk Red Br 5YR3/3 RBr 2.5YR4/4	Lo 10% gravel Lo 10% gravel GrLo 10% gravel, 5% cobbles GrLo 15% gravel, 5% cobbles	0-15%	well	Till plains, hills & moraines

Key: Shades: Dk-dark, V-very
Color: Br-brown, YwRed-yellowish red, RRr-reddish brown, gr-grey, Bk-black, GrBr-greyish brown, YwBr-yellowish brown
Textures: cl-clay, si-silt, sa-sand, gr-gravel, lo-loam

The Foresthills series is a well drained soil with moderate permeability. The soil is strongly acid throughout most of the soil profile. The parent material is loamy fill over an intact or truncated glacial till soil. The depth to bedrock is deep (NYC Soil Survey 2005:29)..

The Ludlow series is a moderately well drained soil with moderate to slow or very slow permeability. The soil is strongly acid in its profile. The parent material is a basal till derived from red sedimentary rocks, basalt or diabase. The depth to bedrock is very deep (NYCSS 2005:35-36).

The Wethersfield series is a well drained soil with moderately rapid to very slow permeability. The soil is strongly acid in its profile. The parent material is a basal till derived from red sedimentary rocks. The depth to bedrock is very deep (NYCSS 2005:42).

The Wilbraham series is a poorly drained soil with moderate to very slow permeability. The soil is strongly acid in its profile. The parent material is a basal till derived mainly from red sedimentary rocks. The depth to bedrock is very deep (NYCSS 2005:43).

ARCHAEOLOGICAL SENSITIVITY

Recorded Archaeological Sites. Inspection of the site files located at OPRHP showed no known prehistoric or historic site located within the current project area. Within a two mile radius of the project area, 26 prehistoric sites have been recorded, six historic sites, nine shipwrecks, and two sites that have no information, for a total of 43 sites. The nearest prehistoric site is A085010005, located 1770 feet (539.5m) east-northeast of the project area. This was a prehistoric camp identified by Skinner in 1909. A second site, NYSM 4601 is located 2360 feet (719.3m) southeast of the project area. Parker (1922) called it an early camp. The third nearest prehistoric site is NYSM 745, approximately 3244 feet (0.99km) northeast of the project area. This site was identified as an early camp by Skinner in 1909.

Three historical and archaeological surveys have been completed on the St. Michael's property, immediately adjacent to the project area. Professor Leo Hershkowitz of Queens College completed a impact report for Section 5, Block 5735, CEQR 83-108-R in June 1985. GCI completed an archaeological sensitivity evaluation of the St. Michael's Development Project in December 1985. The adjacent property was judged as having potential for prehistoric activity. TAMS Consultants, Inc. completed a Stage 1 for the St. Michaels Project Site (Block 5735, Lots 100 and 175, Block 5720, Lots 1 and 11) in December 1989. Phase 1B shovel testing and backhoe trenching was conducted in the southern portion of that project area, testing the historic locations along Woodrow Road and for prehistory in the wooded areas behind the former houses. No archaeological sites were discovered.

Table 2
Recorded Archaeological and Historical Sites within a 2 Mile Radius

Site Number	Site Name	Recorder	Description	Distance
Prehistoric Sites				
A085-01-0005	Fiddler's Green Site	Pickman & Yamin 1978 Skinner 1909	Camp	1770 feet (539.5m) ENE
NYSM 4601 ACP-RICH-11		Parker 1922	Early camp	2360 feet (719.3m) SE

Site Number	Site Name	Recorder	Description	Distance
NYSM 745 STD 19-3	Greenridge	Skinner 1909 Salwen 1967	Early camp	3244 feet (0.99km) NE
NYSM 8226 ACP-RICH-13B		Parker 1922	Traces of occupation	4386 ft. (1.34km) SW
NYSM 8498			Traces of occupation	1.02 mi. (1.64km) NW
NYSM 8322				1.13 mi. (1.82km) NW
NYSM 8321				1.21 mi. (1.95km) NE
NYSM 8495			Shell middens	1.24 mi. (2.0km) W
NYSM 737 A08501.000076 Std. 14-3 Staten Island Archaeological Society 30-RIC-16-AJA	Smoking Point	Salwen 1967 Anderson 1966	Shell Midden Camp Archaic, Transitional, Woodland	1.29 mi. (2.08km) W
A085-01-2426	SICF-Area 1	Pickman & Boesch 1993	Camp, shell middens, Early Woodland-North Beach Phase, Late Woodland-Bowman's Brook Phase	1.39 mi. (2.24km) W
NYSM 4604 ACP-RICH-14A	Sandy Brook	Parker 1922:682	Mid-Late Woodland, burials, traces of occupation	1.42 mi. (2.29km) SW
NYSM 4625	Lakes Island Area	Skinner 1909 Salwen 1967	Camps, middens, villages	1.46 mi. (2.35km) NW
NYSM 7272		Parker 1922	Traces of occupation	1.50 mi. (2.41km) SW
NYSM 4602 ACP-RICH-12		Parker 1922	Village, shell midden, arrowheads	1.58 mi. (2.54km) NW
NYSM 4598 ACP-RICH-8		Parker 1922	Camps, hamlets, middens	1.61 mi. (2.59km) N
A085-01-0110	Lakes Island Site	Solecki 1977 Skinner 1903 Bolton 1920 Leng & Davis 1930		1.61 mi. (2.59km) NW
NYSM 4624 ACP-RICH		Parker 1922 Skinner	Archaic/Late Woodland, Camp	1.67 mi. (2.69km) WSW

Site Number	Site Name	Recorder	Description	Distance
A085-01-0109	Richmond Hill Sites	Solecki 1977 Anderson 1976 Bolton 1922 Ritchie & Funk 1971	Archaic, 5000 B.P.	1.70 mi. (2.74km) NE
NYSM 4616 ACP-RICH-26		Parker 1922	Camp, grooved axes	1.73 mi. (2.78km) NE
NYSM 4626 ACP-RICH		Parker 1922	Camp	1.74 mi. (2.80 km) N
A085-01-2569		Historical Perspectives 1996	Multi-component Middle to Late Archaic; Woodland	1.75 mi. (2.82km) SW
NYSM 772	Rossville Shell Heap	Skinner 1909:11	Woodland Shell midden	1.77 mi. (2.85km) W
NYSM 8497			Village	1.78mi. (2.86km) SW
A085-01-0119	Rossville Site	Kardas & Larrabee 1976 Bolton 1922	Shell midden, quartz & chert chips, glazed ceramics	1.78 mi. (2.86km) WSW
NYSM 4617 ACP-RICH-27		Parker 1922	Shell midden, camp, flakes, arrowheads on higher ground	1.84 mi. (2.96km) SE
NYSM 4599 ACP-RICH-9		Parker 1922	Hamlets, shell middens, traces of occupation	1.87 mi. (3.01km) N
NYSM 8494			Traces of occupation	1.90 mi. (3.06km) WSW
NYSM 749	Richmond Hill/Arthur Kill			1.95 mi. (3.14km) NE
Historic Sites				
A085-01-2427	Winant Homestead Cottage	Pickman 1993	constructed prior to 1850	1.37 mi. (2.2km) W
A085-01-0112	Burial Hill (Ketchum's Hill Cemetery)	Solecki 1977	over 100 years old	1.71 mi. (2.75km) NE
A085-01-0119	Rossville Site	Kardas & Larrabee 1976 Bolton 1922	Shell midden, quartz & chert chips, glazed ceramics	1.78 mi. (2.86km) WSW

Site Number	Site Name	Recorder	Description	Distance
A085-01-0114	Ketchum's Mill	Solecki 1977	prior to 1896	1.96 mi. (3.43km) NE & 1.78 mi. (2.86km) NE 2 locations
A085-01-0002	Whitlock Brothers Concrete Block Factory	Solecki 1977		2.02 mi. (3.25km) NE
A085-01-0113	Old Fort, Richmond Redoubt	Solecki 1977	18th century British fort	2.13 mi. (3.43km) NE
National Register Listed				
n/a				
Cultural Resource Surveys				
PIN 0349.07		SUNY @ Stony Brook 1979	missing from shelf	Richmond Pkwy & Richmond Ave.
WP-136	Pump Station & Force Main, Mayflower Avenue, Oakwood Beach Water Pollution Control Project	Geismar 1985	Stage 1B	4534 ft. (1.38km) WNW
CEQR 83-108-R	St. Michael's Development	Hershkowitz 1985	Phase 1A	immediately adjacent
	St. Michael's Development	GCI 1985	Phase 1A	immediately adjacent
	St. Michael's Development	TAMS/Geismar 1989	Phase 1	immediately adjacent

Three cultural resource surveys were conducted at the adjacent St. Michael's during the 1980s. The TAMS report was a full Phase 1, and no archaeological site was encountered.

Prehistoric sites which have been recorded for Richmond County are primarily shell middens, located along waterways. Most of these sites were recorded nearly a century ago by Skinner and Parker. Described as shell middens or traces of occupation, little other information is available for these sites. This is particularly true of the nearest prehistoric sites in the vicinity of the project area. Prehistoric archaeological sites have been discovered, or re-examined by archaeologists within the past forty years that contain multi-components, ranging from the Archaic to the Woodland periods. Examples of such sites included NYSM/A08501-00076 (Smoking Point), A08501-02426 (SICF-Area 1) and A08501-02569.

The project area is deemed moderately sensitive to the existence of potential prehistoric activities. The APE is moderately sensitive, with wetlands close by, which would have generated food for prehistoric inhabitants. The open space parcel is more sensitive, due to the mixture of wetlands, the northern stream, and the high areas overlooking the wetlands. The open space portion of the project area will not be impacted, and no archaeological testing is necessary for that area.

HISTORIC SENSITIVITY

The Woodrow Road Convent project area was located in Green Ridge, Staten Island, and was originally settled by French Huguenots. Historically, the area has also been called Fresh Kills, Marshland, Marshfield, and Kleine Kill (Clute 1877, Morris 1898). The original patentees were: 1) Samuel and Anthony Blackford, 160 acres, December 23, 1685; 2) Robert Wright, 80acres, December 28, 1680; 3) Francis Pew, 80 acres, December 28, 1680; and 4) F. Vincent, 45 acres, September 1, 1708. See Figure 2 for Skene's 1907 patent map.

Woodrow Road was first opened in 1818. During the n neteenth century, it was named Journeay Avenue after a prominent Staten Islander, Nicholas Journeay, who owned a considerable portion of the land in the area. St. Michael's Home was purchased from Arthur J. Donnelly in 1884. The Order of the Presentation Sisters was founded in County Cork, Ireland, in 1777 by Nano Nagle. The Presentation Sisters were invited to New York by Reverand Arthur Donnelly in 1874, the pastor of St. Michael's Church in Manhattan. An orphanage was opened on Staten Island in Greenridge and the location became the home of the Sisters of the Presentation of Staten Island in 1884. The order outgrew the frame dwelling at St. Michael's in the 1940s, and established a convent at Horrman Castle on Grymes Hill. They relocated to 419 Woodrow Road when the current convent was built in the 1960s (The Catholic Encyclopedia 1911, The Official Catholic Directory 1927, Kurutz 2005, Salmon 2007).

History Historic maps were examined evidence of historic use of the project area and property ownership. These included data from the seventeenth (Skene patent): eighteenth (1781 Taylor & Skinner, 1780 du Camp Anglo-Hessois, 1797 New & Correct): nineteenth (1829 Burr, 1844 Smith, United States Coast Survey 1844, Butler 1953, United States Coast Survey 1866, Dripps 1872, Beers 1874, 1887, United States Geological Survey 1891, 1898, Robinson 1898); and twentieth centuries (Borough of Richmond Topo Bureau 1913, Bromley 1917, New York City Bureau of Engineering 1924). No buildings are recorded within the project area on the historic maps until the third quarter of the twentieth century. Since none of the historic maps showed evidence for use of the project area during the historic period, not all were replicated for this report. Figures 2 through 14 are historic maps of the project area.

The Department of Buildings and City Planning Portal, City of New York, lists Block 5735, Lot 1 as having a lot area of 657,750 square feet (6.1 hectares), with lot frontage along Woodrow Road of 459 feet (139.9m). The lot depth is 1029 feet (313.6m). Although one building is listed in the portal, it is actually a building complex, with a total gross area of 23,600 feet (0.2 hectares). The year listed for the building is 1936, and a certificate of occupancy was listed for the garage and storage addition on November 16, 1969.

A U-shaped asphalt drive is the entrance to the gated convent. On the east side is a one story garage, connected by an atrium to the two-story eastern brick wing. A one-story brick module is attached to the front of the eastern wing, which contains the chapel and other small rooms. The H-bar and the western wing are one-story brick construction. At the rear of the western wing is a wooden deck with a ramp. On the west side of the western wing is a large asphalt driveway/parking area. On the northwest corner of the parking area is a one story masonry garage, with steel containers lining its north side and a small concrete building on its northeast side. A total of 42,390 square feet (0.4 hectares) is set aside in the southwest corner for the erection of a new convent building.

The convent is in an H-shape. The main entrance has an entry chamber with a waiting room to the left. To the right lie various utility rooms. The corridors are dark since they are interior with the various rooms entering upon the corridors. The individual rooms are brightly lit through banks of windows on the exterior walls. To the left or west side of the bar of the H-corridor are the kitchen area, dining area. On the interior or north side of the H-bar corridor is an enclosed patio lunchroom. On the south side of the H-bar is the chapel with its stained glass window facing west. On the east or right side of the H-bar are various offices and other rooms. See Photos 11 and 12 for views of the convent.

SENSITIVITY EVALUATION CONCLUSIONS

Examination of the geography, topography, prehistoric and historic resources lead us to conclude that the project area may be moderately sensitive to the preservation of prehistory. Evaluation of the historic use of the land found that occupation occurred during the third quarter of the twentieth century. We propose shovel testing on a 50 foot grid for the Phase 1B portion of this survey, before construction activities occur. Shovel testing will occur only within impact areas of the APE. Areas designated as open space, wetlands, steep slopes, or areas previously impacted by the current convent and its outbuildings need not be tested.

FIELD METHODOLOGY

The purpose of a Phase 1B archaeological survey is to document the presence or absence of potential archaeological resources within the project area in anticipation of the proposed impacts. Phase 1B archaeological testing of the area of potential effect at 419 Woodrow Road was completed during the period from April 7 to April 9, 2008. Figure 15 shows the location of the APE and the Phase 1B shovel tests. A total of 104 shovel tests were planned to cover the expected impacts and all were completed. These tests were arranged on a 50 foot (15.2 meter) grid pattern over most of the area. With the additional of radial shovel tests surrounding positive shovel tests at 3 (0.9m) and 10 foot (3m) intervals, the total number of shovel tests excavated was 136.

The methodology employed for the shovel testing was straightforward. Roughly circular tests approximately 1.3 feet (0.4 meters) in diameter were manually excavated until 0.5 feet (15 cm) of subsoil was removed. All soils from the shovel tests were screened through ¼ inch (0.63 cm) mesh to assist with the recovery of artifacts. Soils were excavated and recorded by natural stratagraphic deposits. The strata encountered were measured, described and recorded in terms of texture, inclusions, Munsell colors and thickness.

The reason for this Phase 1B testing was to search for evidence of possible prehistoric use of this property, since historically, this property was not in use until the mid-twentieth century. Historic artifacts were found at four locations: Shovel Tests 15, 18, 41 and 51. Additional radials at three foot and ten foot intervals were placed around the positive tests. Three shovel tests surrounding Shovel Test 15 were positive for additional historic artifacts (Shovel Tests 130, 132, and 133). These tests also encountered a fuel oil spill.

STRATIGRAPHIC SUMMARY

The typical shovel test profile at 419 Woodrow Road usually consisted of three layers: a dark brown silty loam topsoil overlying an A horizon of dark brown silt or silty clay. The B horizon was usually a red clay.

Table 3
Summary of Shovel Test Stratigraphy

Layer	Texture	Color	# of Tests	%
Topsoil				
(N=125)	Silty loam	Black (46)	125	100.0%
		Dark brown (79)		
A Horizon	Silty clay	Dark brown (74)	74	56.92%
(N=130)	Silt	Dark brown (55)	55	42.3%
	Sandy silt	Dark brown (1)	1	0.77%
B Horizon	Clay	Red (122)	126	92.64%
(N=136)		Yellowish brown (4)		
	Sandy clay	Yellowish brown (6)	6	4.41%
	Silty clay	Red (3)	4	2.94%
		Dark brown (1)		

The topsoil layer was consistently a silty loam texture. The average thickness of the topsoil excavated at the project area was 3.33cm.

A dark brown silty clay texture composed the majority of the A horizon layers. A dark brown silt layer was also present in large quantities. The average thickness of the A horizon was 21.09cm.

A red clay texture dominated the subsoil layers at 92 percent. The average thickness exposed in the B horizon was 15.45cm.

In 1989 Joan Geismar, under contract with TAMS Consultants, Inc., executed a Phase 1 study for the St. Michael's project at 351 Woodrow Road, immediately east of the current project area. Geismar placed shovel tests to test for prehistory on the crests and just below the crests of small hills behind the former structure at 351 Woodrow Road. The stratigraphic sequence east of the project area was comprised of a 2-6 inch (5-

15cm) humus layer on top, overlying a dense silty red sand or sandy loam, described as having a clay-like density, with and without pebbles. At three feet (0.9m) below surface, she encountered a dense yellow glacial sand with silt. No evidence of prehistoric activity was found in the area north of 351 Woodrow Road (Geismar 1989:40-46). Geismar concluded that because of the impermeability of the soil, and the fact that it may have been part of a glacial lake, made the 351 Woodrow Road project area unsuitable for prehistoric habitation and awkwardness for historic inhabitants attempting to establish privies (ibid.:48).

The soil stratigraphy at 419 Woodrow Road also displayed consistency throughout the APE. While some landscaping has occurred next to the convent, in general, the principle was to leave the landscape in its natural state.

ARTIFACT PROCESSING AND ANALYSIS

Laboratory Methodology

Artifacts recovered from the Phase 1B shovel testing at 419 Woodrow Road were brought to the Greenhouse Consultants laboratory for processing and analysis. Artifacts were washed in room temperature tap water, dried, marked and catalogued. The drying procedure was slow air drying on screens in the laboratory processing area. The artifacts were then labeled with their appropriate context number.

Artifacts were identified using a modified form of the Cultural Material Data Base Taxonomy of the National Park Service. Artifacts were coded for their functional group, class and material. Technological and stylistic manufacturing ranges were assigned when an artifact exhibited a datable attribute. Establishing a range of the manufacture of artifacts provides a time frame for establishing dates after which the refuse e deposits were made. This information was recorded on a tyvek label which was inserted with the artifact into a clear polyethylene ziplock bag. The bags were also labeled with context and catalog numbers.

Contexts were assigned series numbers in accordance to the type of data recovery method. The recovery methods employed during the Phase 1B at the project area was shovel testing. Artifacts collected from the shovel tests were identified by the 3000 series. See Appendix 1 for the context labeling system and Appendix 2 for the artifact inventory.

Artifact Analysis

Nine historic artifacts were recovered from seven shovel tests during Phase 1B testing. All artifacts were recovered from the second layer of the shovel tests. No prehistoric artifacts or features were observed. Shovel Test 15 is located 25 feet north of the garage and about 15 feet east of the eastern wing of the convent. Shovel Test 18 is located off the northeast corner of the inground swimming pool. Shovel Test 41 is located near the eastern boundary, approximately 250 north of Woodrow Road and 150 feet east of the convent. Shovel Test 51 is located 50 feet north of Shovel Test 41.

Table 4

Functional Category	Identity	Context
Kitchen	Ironstone (4)	3015.02, 3018.02, 3051.02 3133.02
	Glass (2)	3041.02, 3130.02
Architectural	Nails (2)	3015.02, 3132.02
Furnishings	Porcelain (1)	3018.02

The four ironstone ceramics were undecorated fragments, belonging to vessels forms such as plates and cups/bowls. The two fragments of glass were both colorless. The tableware glass had a press-molded floral decoration. The two nails were rusted and corroded. The porcelain fragment probably is a fragment of statuary. It is a heavy dense material, with a molded exterior, and a dark brown glaze. The convent grounds are dotted with many statutes and benches for contemplation. A small shrine is located in the northeast corner of the APE, approximately 150 feet north of Shovel Test 51. The eight radials surrounding Shovel Tests 18, 41 and 51 were negative. Three of the eight shovel tests surrounding Shovel Test 15 were positive (Tests 130, 132 and 133). These tests also encountered a fuel oil spill. Sewer manholes are in the immediate vicinity of these tests.

The artifacts recovered from 419 Woodrow Road are twentieth century in origin. They are the result of activities by residents and their guests at the convent and do not constitute a historic site.

CONCLUSIONS AND RECOMMENDATIONS

Our sensitivity evaluation concluded that the 419 Woodrow Road project area moderate potential of being utilized during the prehistoric period. The Phase 1B archaeological testing of the impact area within project area produced no evidence of prehistoric use of this land. No prehistoric artifacts were recovered. No evidence of prehistoric features was seen.

The sensitivity evaluation also concluded that the project area is unlikely to preserve archaeological evidence from the historic period. No structures were observed on historic maps examined for the project, and the current convent was constructed during the early 1960s. The current convent and its associated outbuildings will be demolished for the proposed townhouses.

Artifacts recovered from seven Phase 1B shovel tests at 419 Woodrow Road are twentieth century in origin. They are the result of activities during the second half of the twentieth century by residents and their guests at the convent and do not constitute a historic site.

Based on the archaeological testing of the project area, it is our conclusion that no potentially significant prehistoric or historic archaeological resources are present within the boundaries of the project area at 419 Woodrow Road, Staten Island, Richmond County, New York. No additional testing is necessary within the project area and no further archaeological work is recommended for the project area.

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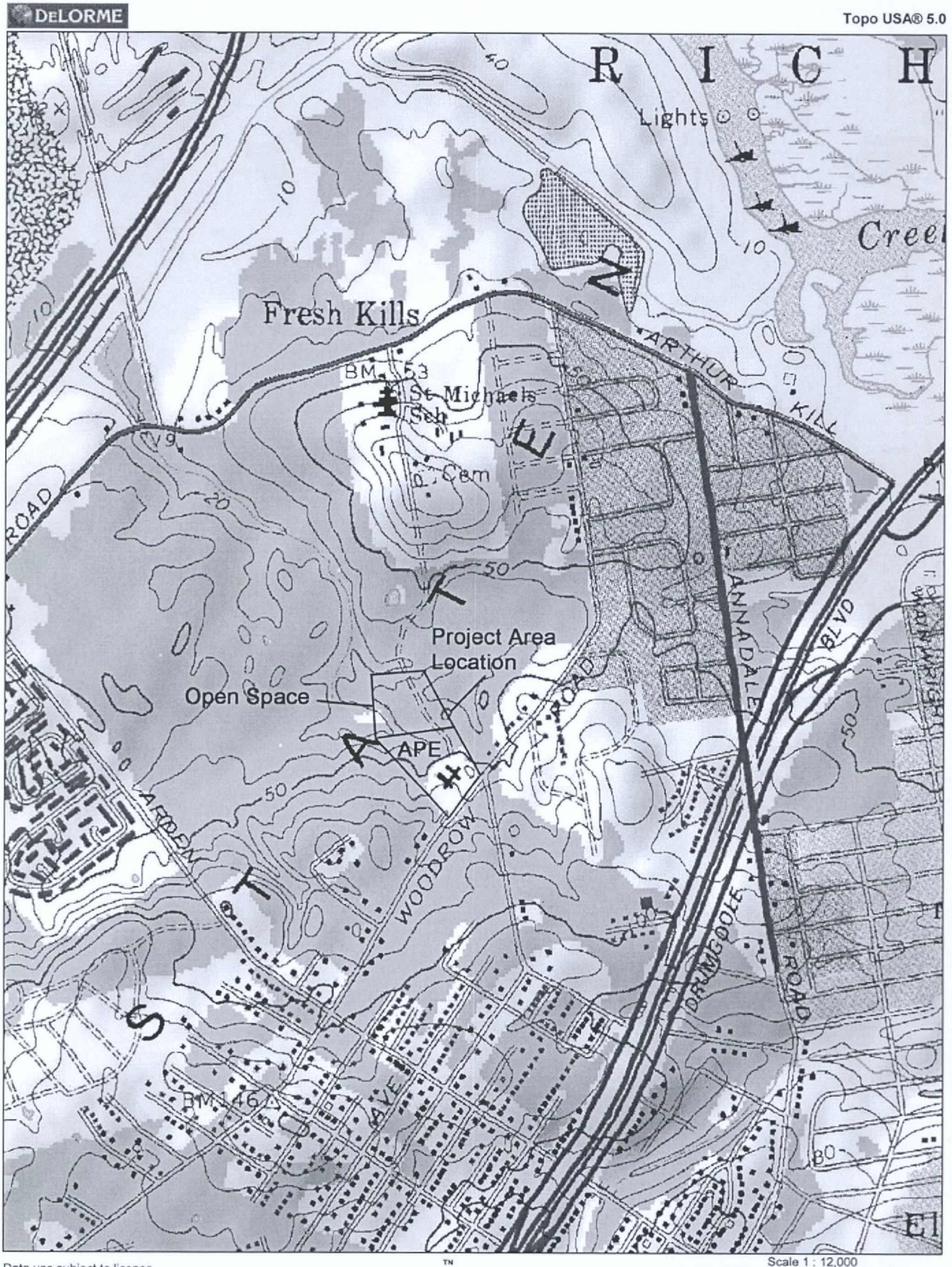


Figure 1 Project location on the USGS 1981 Arthur Kill, NY-NJ 15 minute quadrangle.

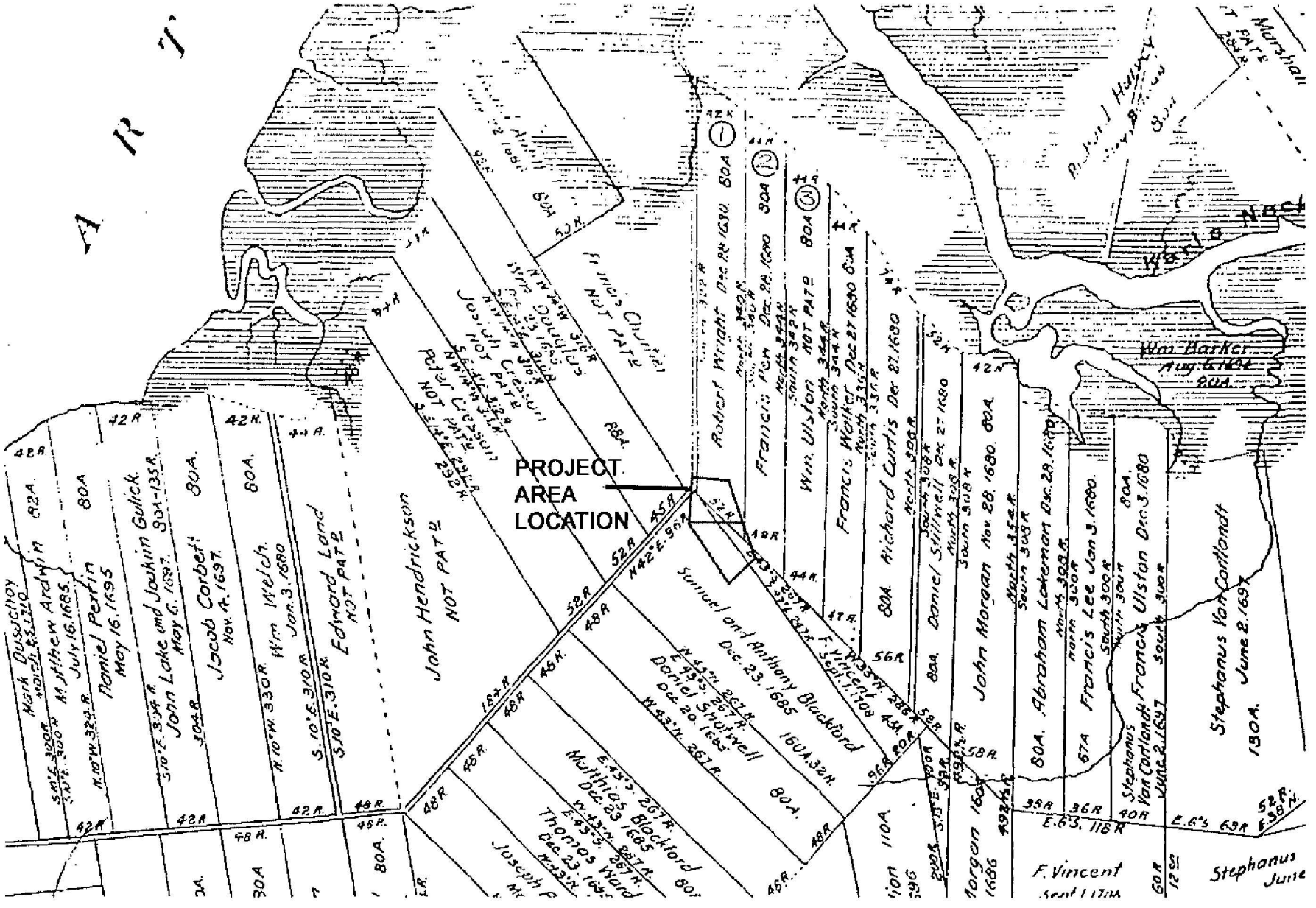


Figure 2 From Skene's 1907, Map of Staten Island, New York, Colonial Land Patents, 1668-1712.

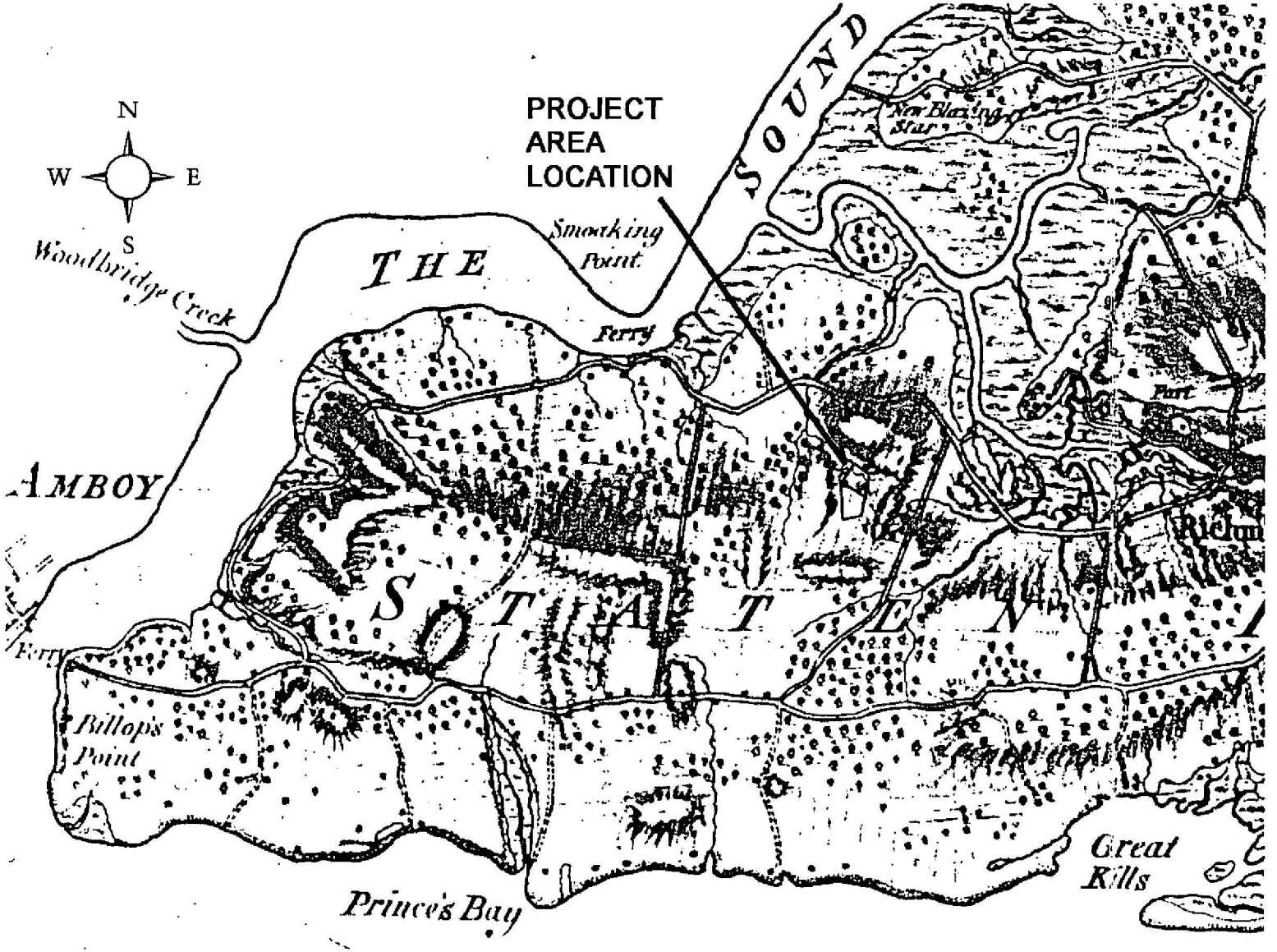


Figure 3 From the 1781 Skinner and Taylor Map.

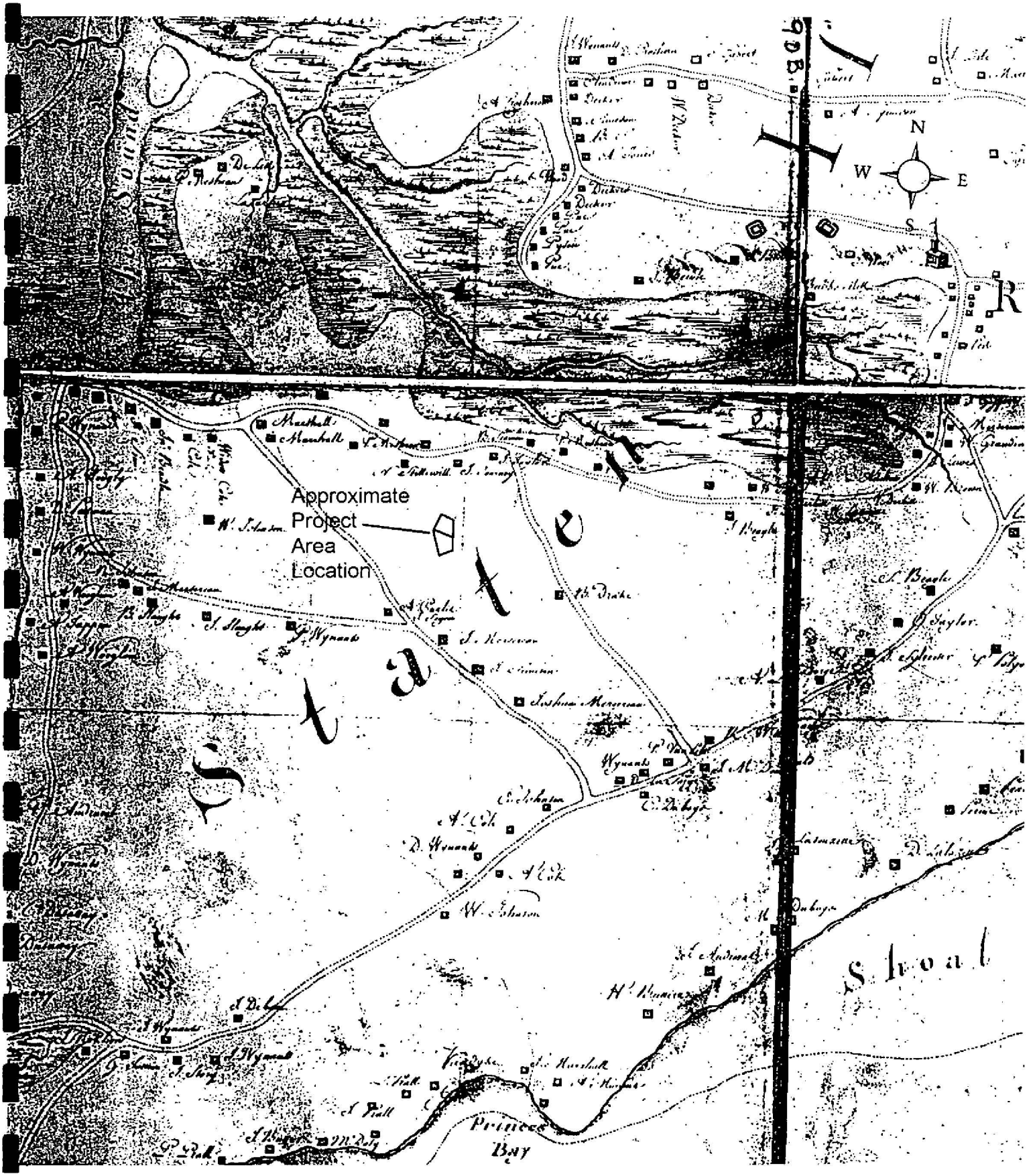


Figure 4 From the 1780-1783 Plan No. 31 du Camp Anglo-Hessois dans Staten Island.

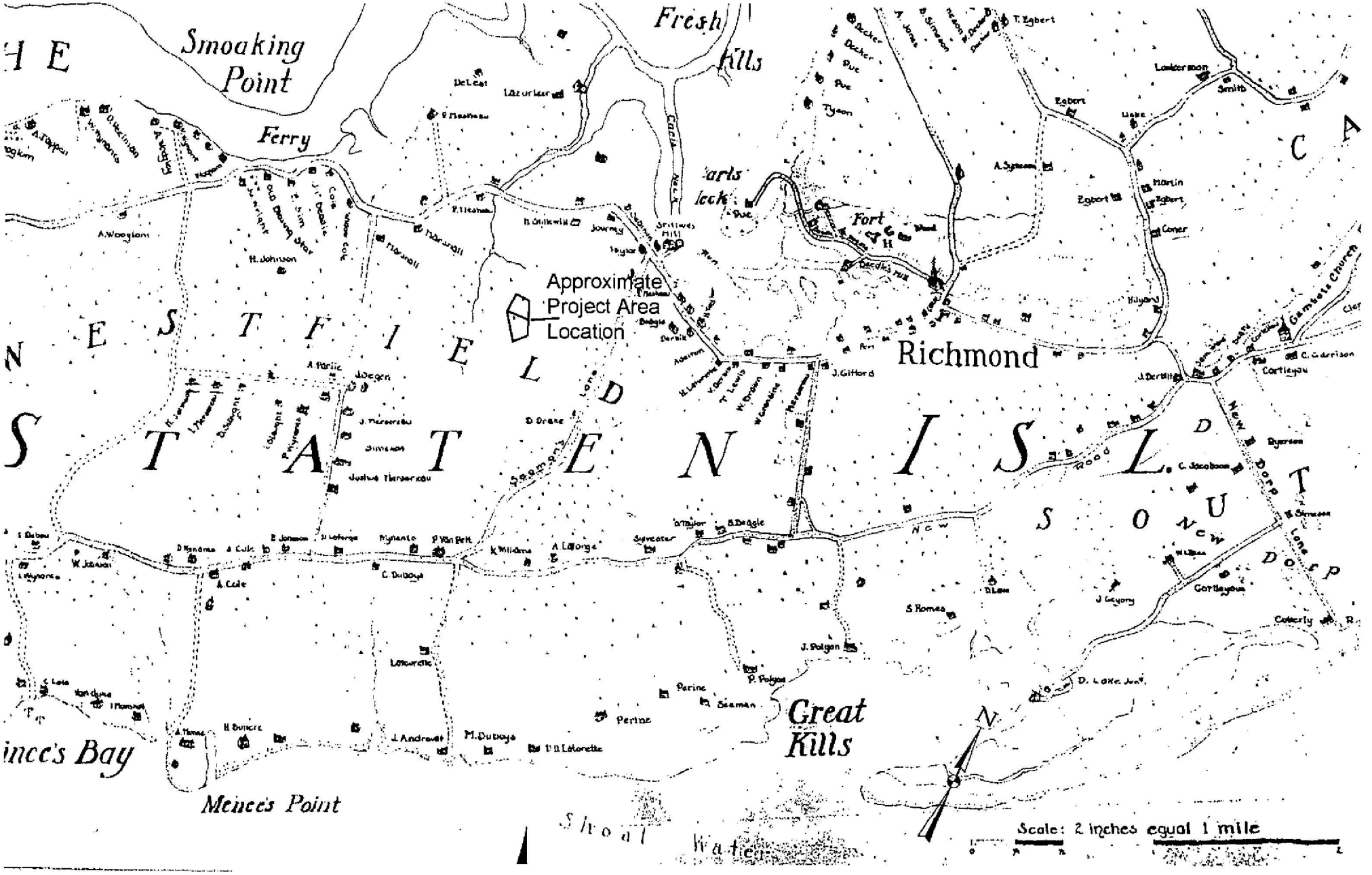


Figure 5 From McMillen 1933, *A Map of Staten Island During The Revolution, 1775-1783.*

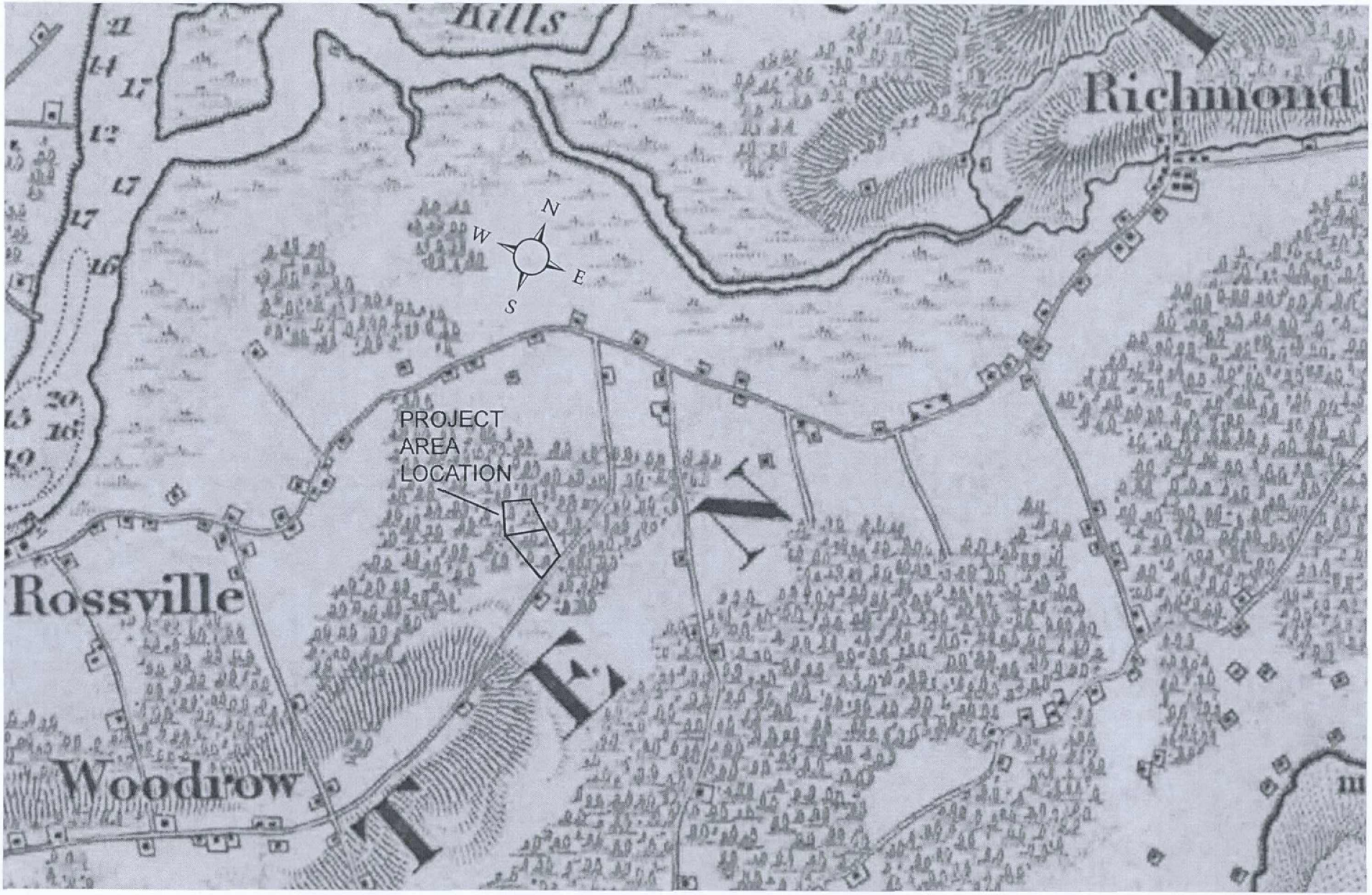


Figure 6 From the United States Coast Survey, Map of New-York Bay and Harbor and the Environs. Scale: 1:80,000.

Figure 7 From the United States Coast Survey, 1866, Coast Chart No. 20, New York Bay and Harbor, New York. Scale: 1:80,000.

Figure 8 From Dripps Map of Staten Island (Richmond Co.) N.Y., 1872, Scale: 1:253,440.

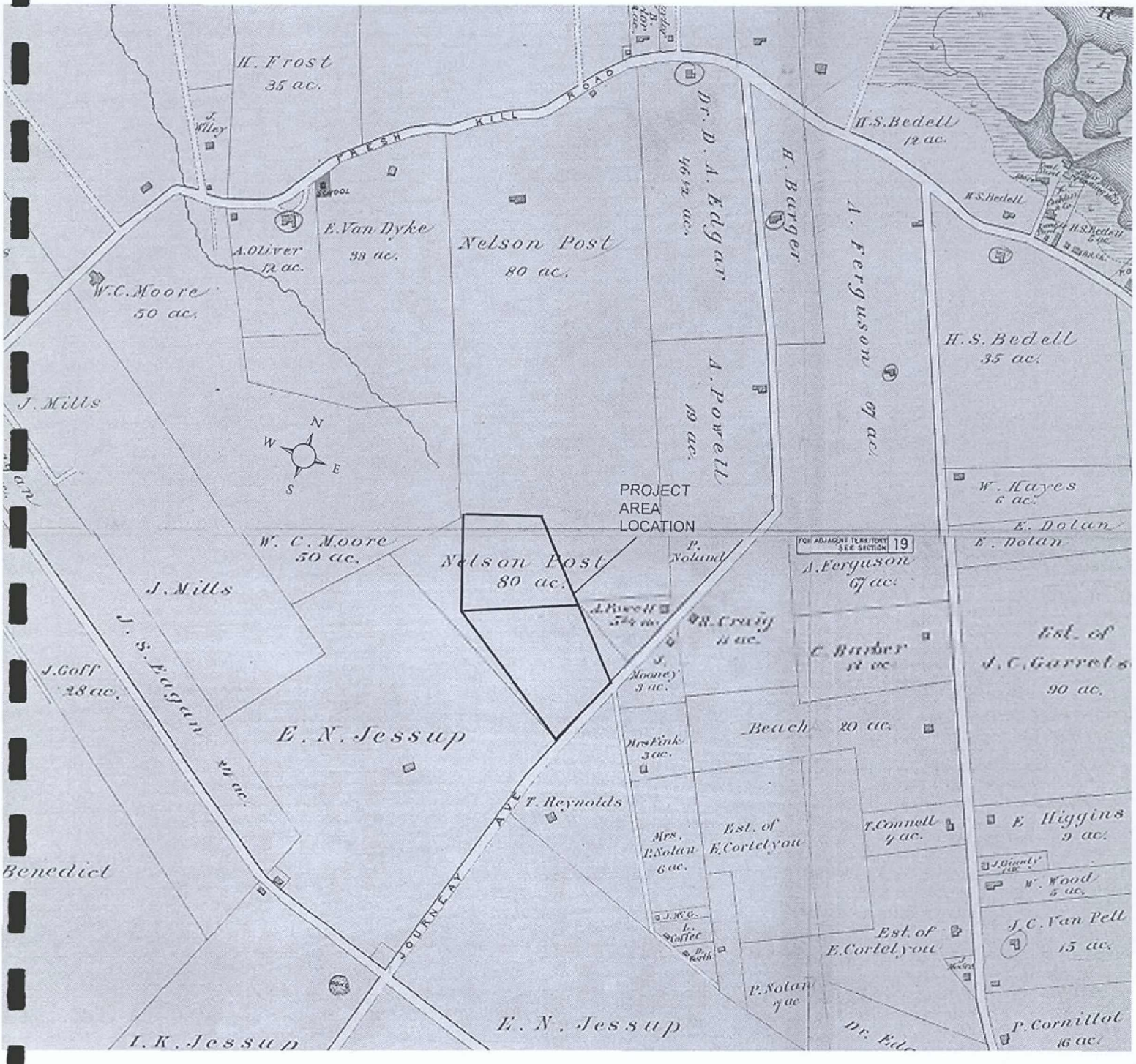


Figure 9 From the Beers 1874 Atlas of Staten Island, Richmond County, New York. Sections 19, 23, 24. Scale: 1:5000.

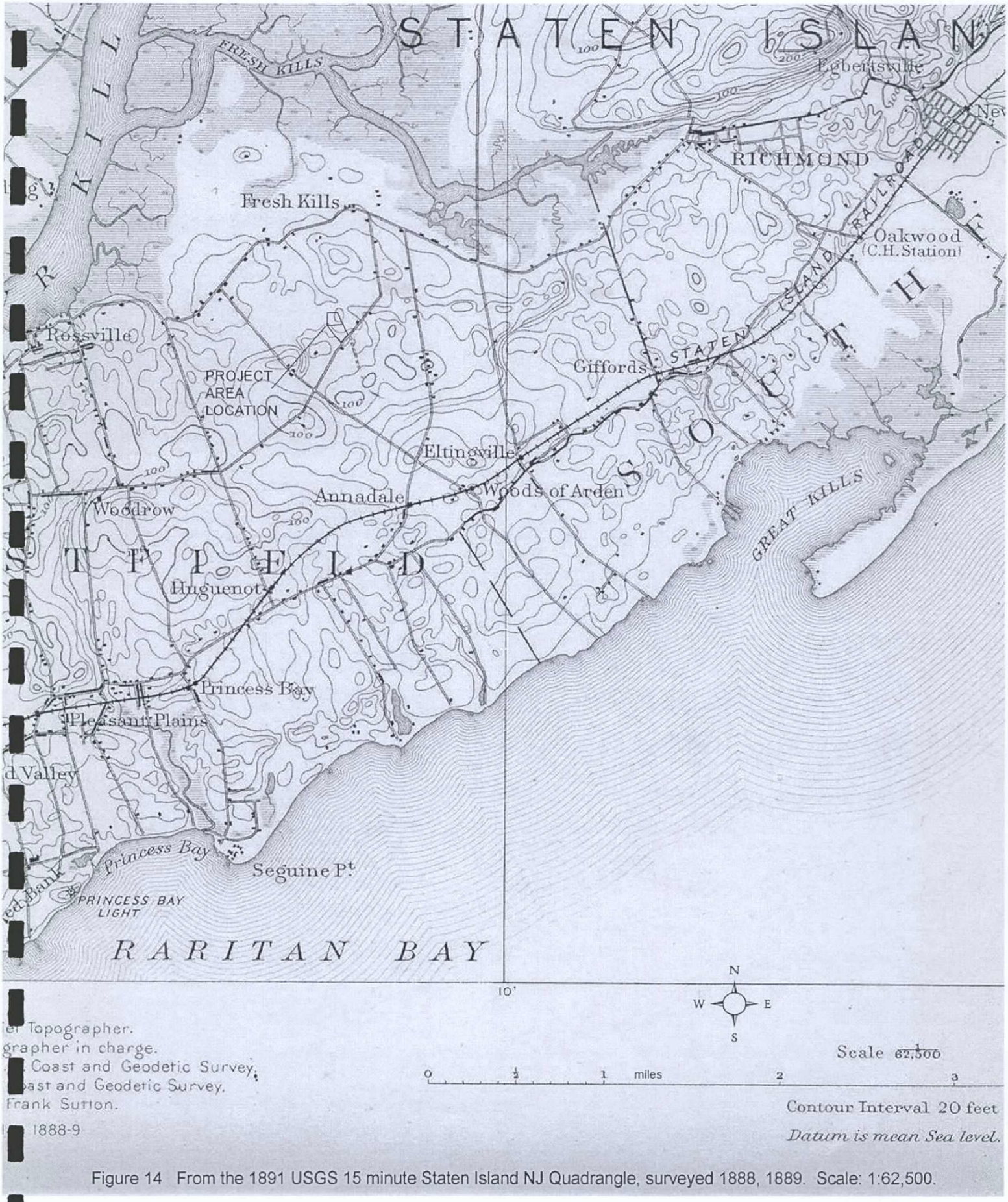


Figure 14 From the 1891 USGS 15 minute Staten Island NJ Quadrangle, surveyed 1888, 1889. Scale: 1:62,500.

Figure 11 From the 1898 USGS 15 minute Staten Island, NJ quadrangle, surveyed 1888, 1889, 1894. Scale: 1:62,500.

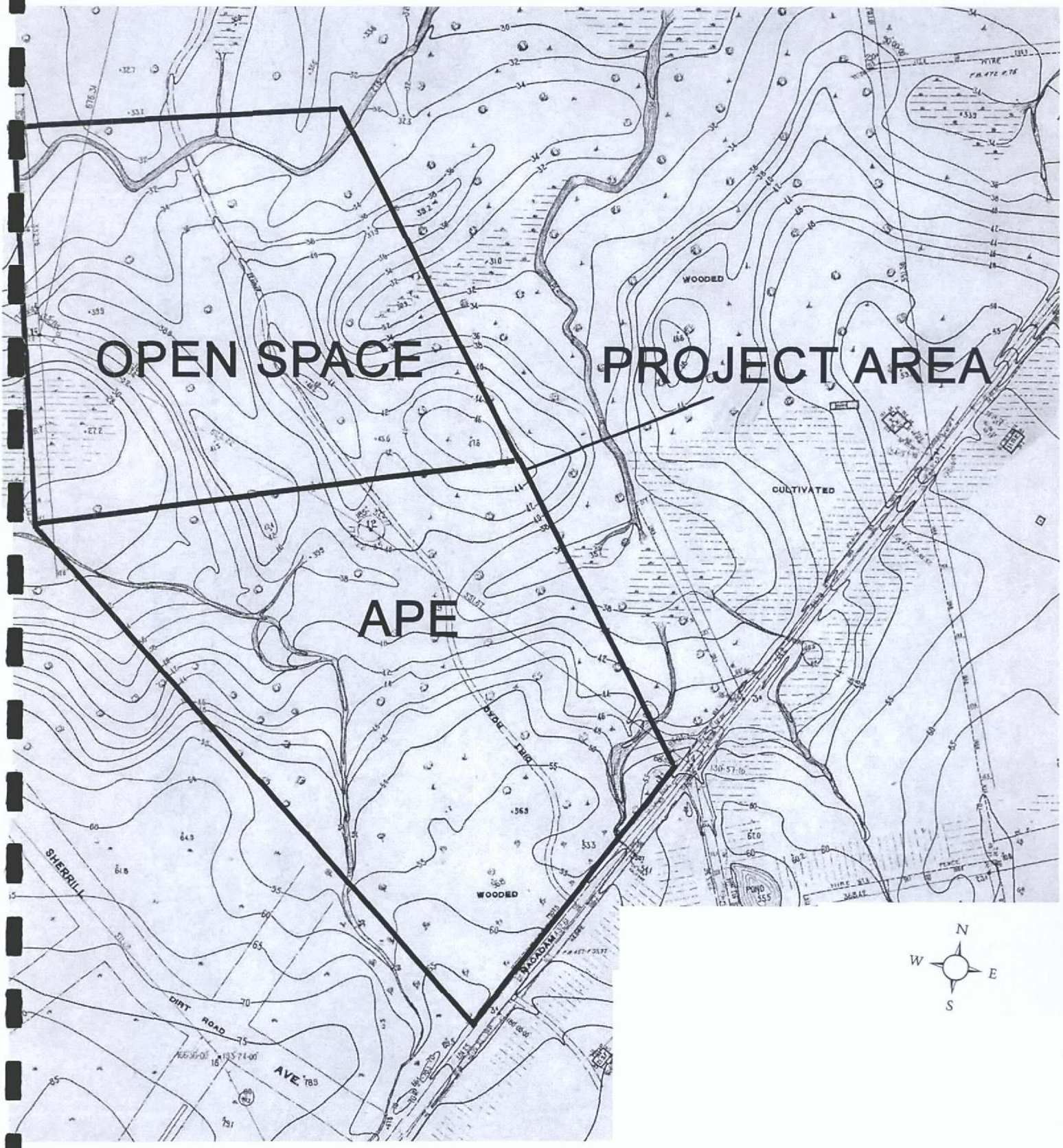


Figure 12 From the 1913 Borough of Richmond Topographical Survey, Sheets 59 and 68. Scale: 1:1800.

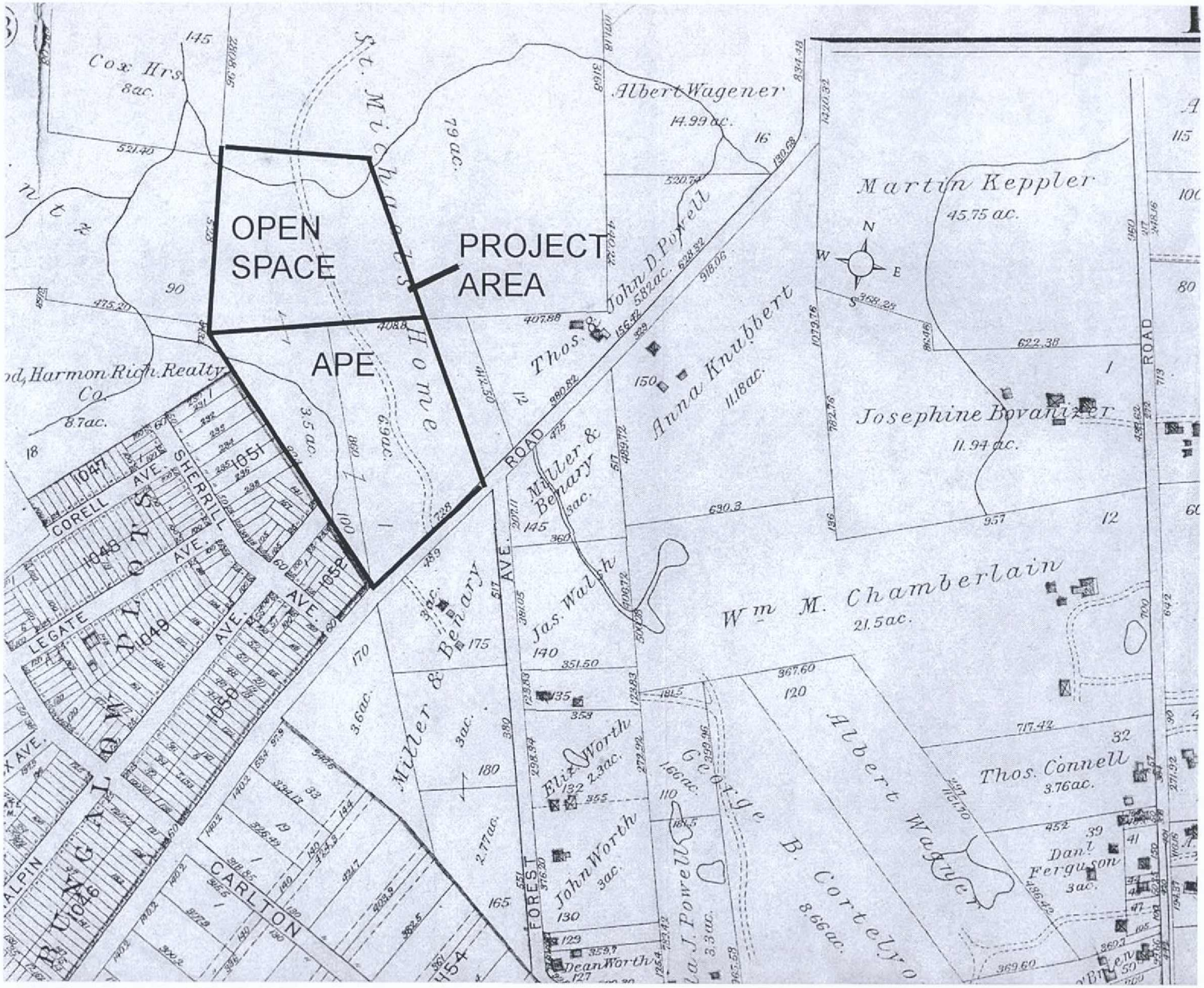


Figure 13 From Bromley, 1917, Atlas of the Borough of Richmond, Plate 5. Scale: 1 inch = 200 feet.

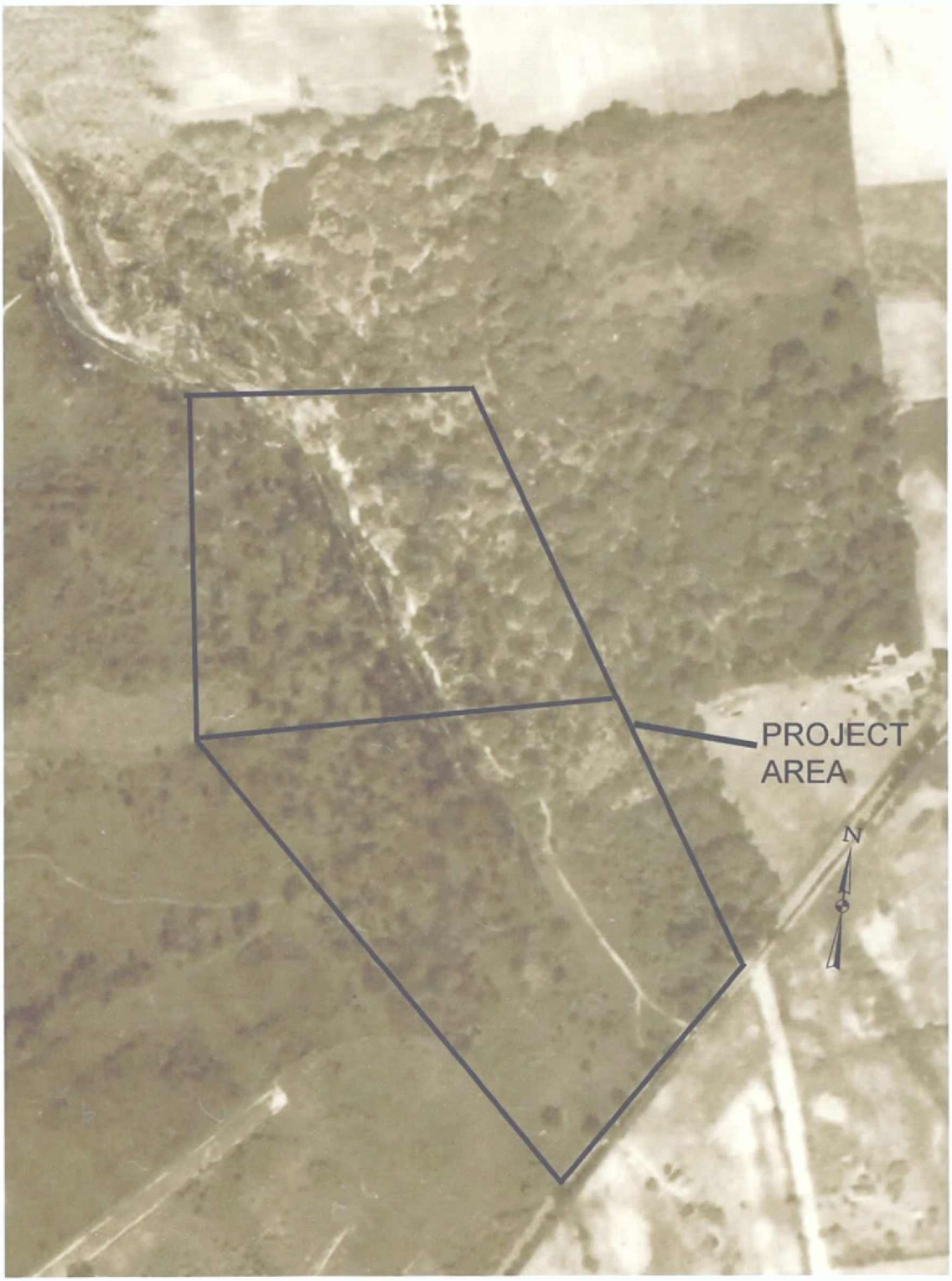


Figure 14 From the 1924 New York City Bureau of Engineering, Sectional Aerial Maps of the City of New York, Plate 33A. Scale: 1 inch = 600 feet.

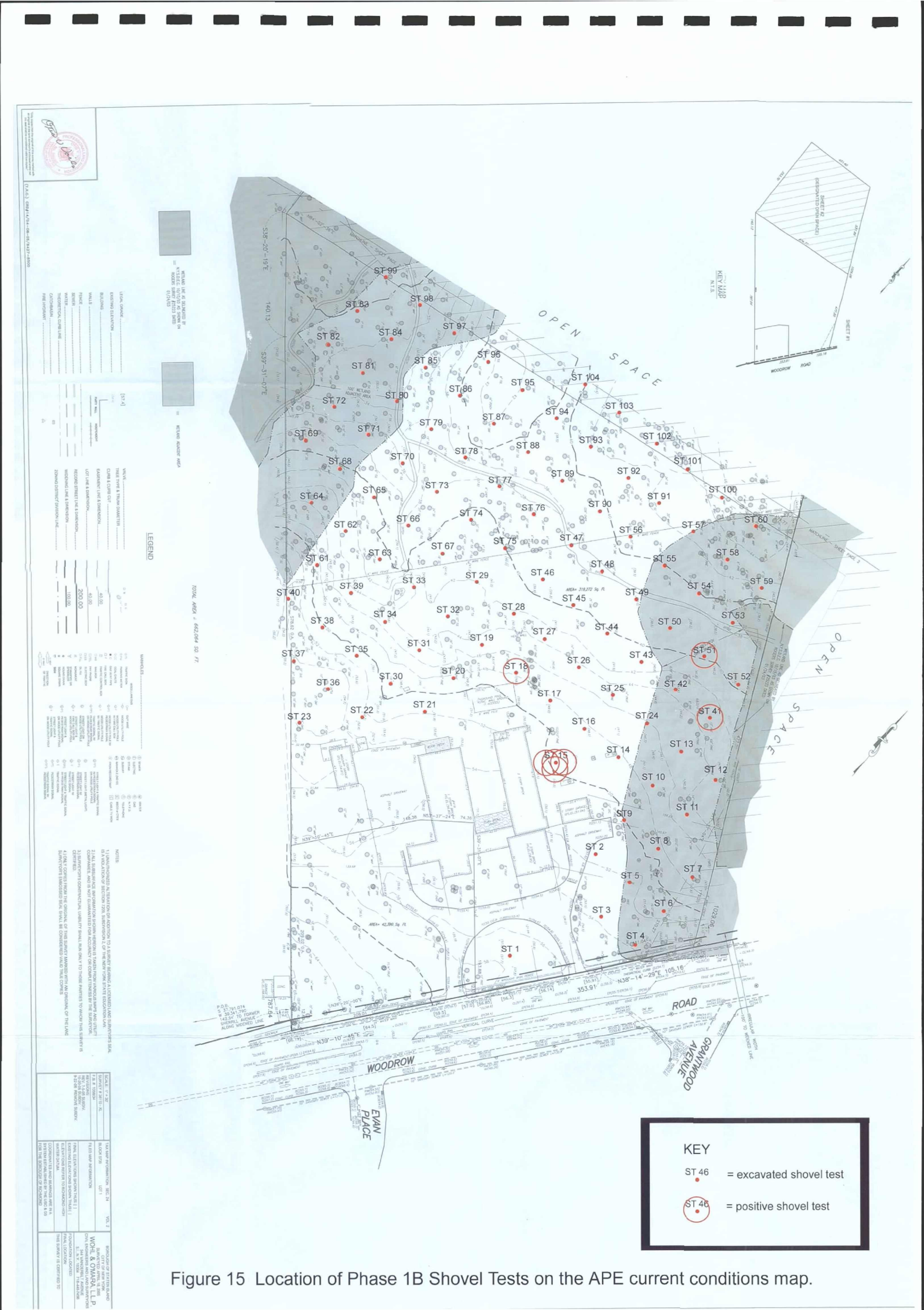
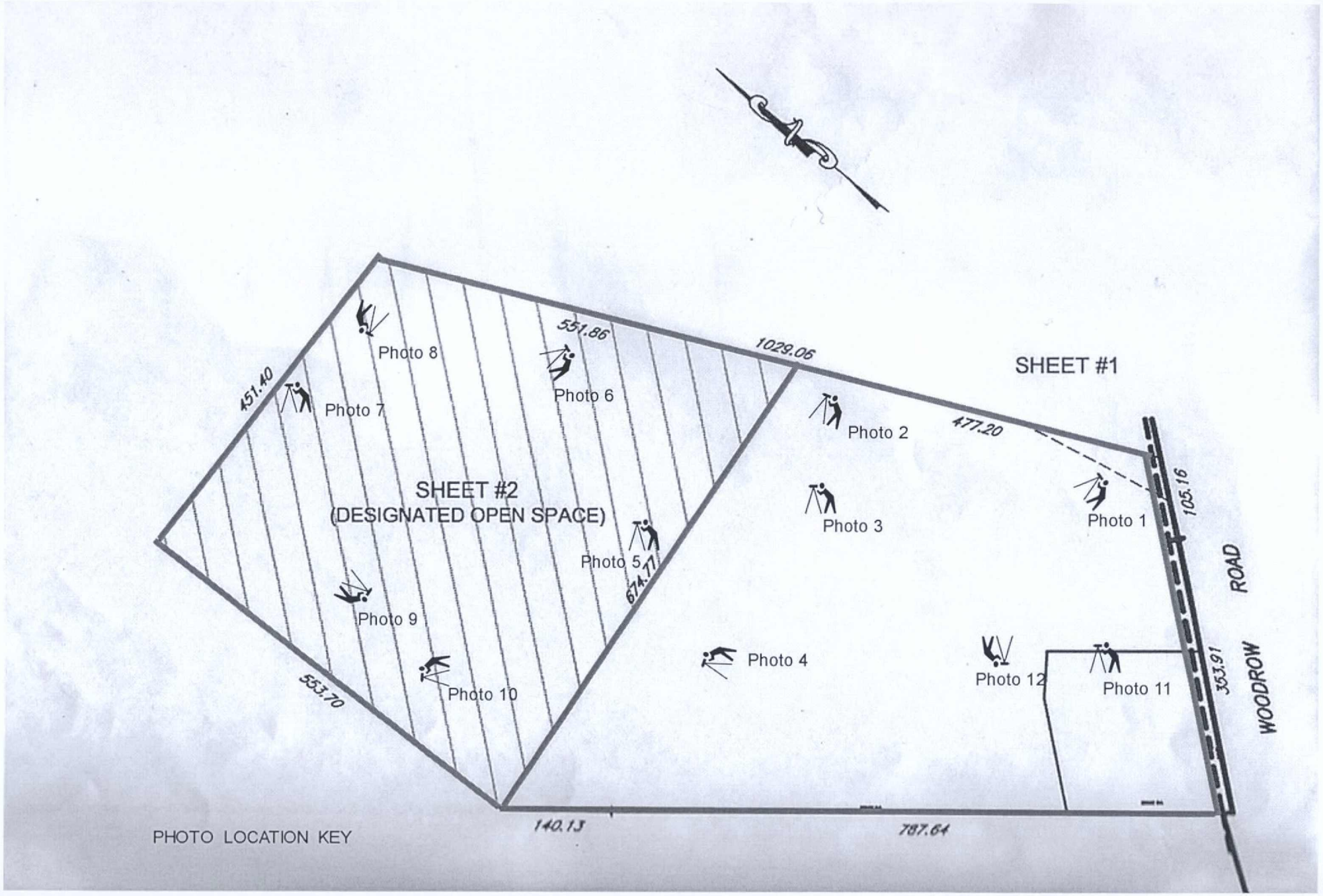


Figure 15 Location of Phase 1B Shovel Tests on the APE current conditions map.


SHEET #1
SHEET #2
(DESIGNATED OPEN SPACE)
Photo 1
Photo 2
Photo 3
Photo 4
Photo 5
Photo 6
Photo 7
Photo 8
Photo 9
Photo 10
Photo 11
Photo 12
451.40
551.86
1029.06
477.20
105.16
674.71
553.70
140.13
787.64
363.91
WOODROW
ROAD
PHOTO LOCATION KEY

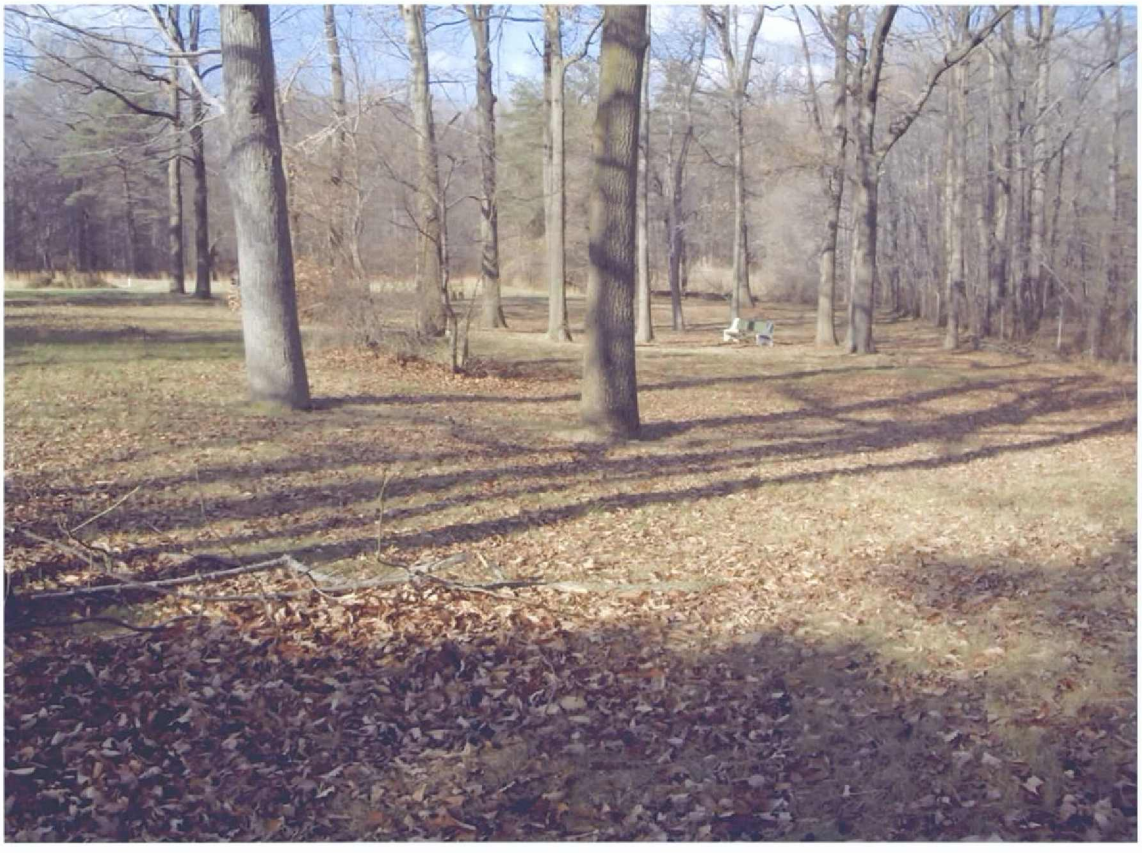


Photo 1 View of the APE convent grounds in the southeastern portion of the project area, facing northeast.

Photo 2 View of the APE convent grounds in the northeastern corner, facing northeast at the small shrine.

Photo 3 View of the APE convent grounds in the north central portion, facing north.

Photo 4 View of the APE convent grounds in the north, facing west.

Photo 5 Entering the open space portion of the project area on the dirt road, facing north.

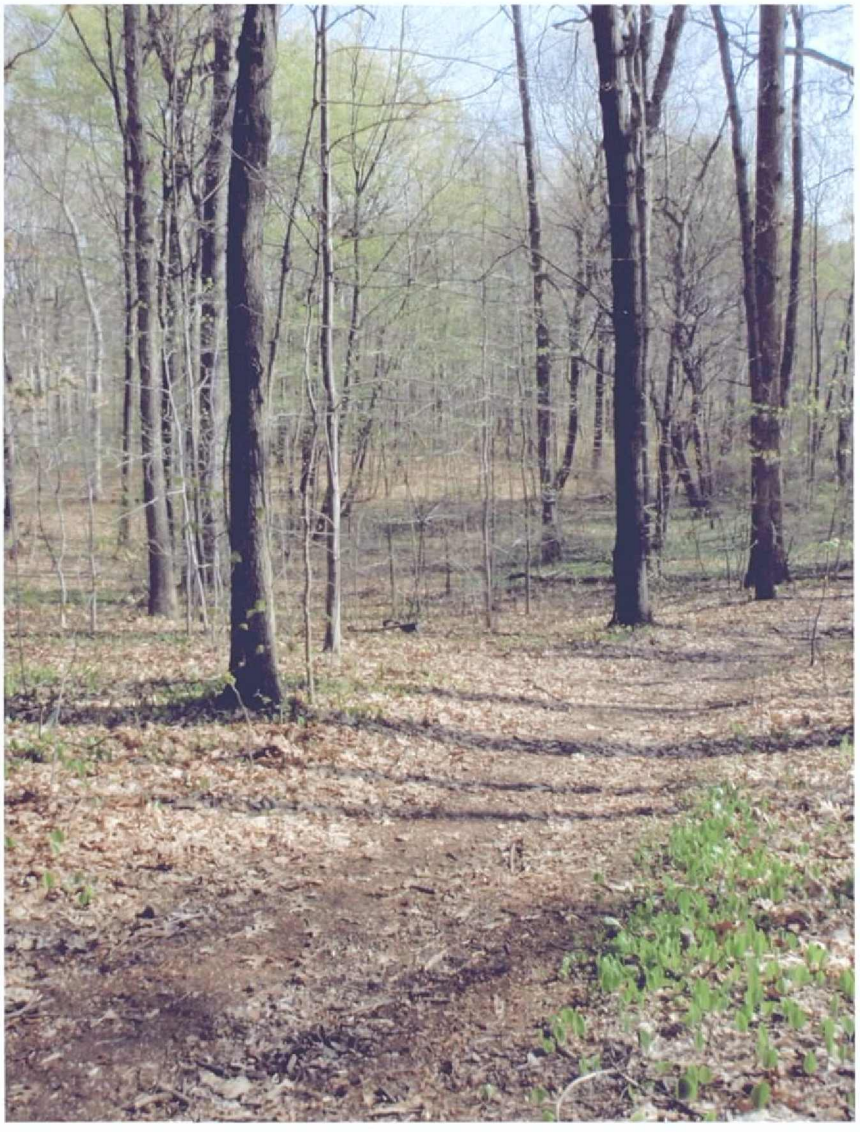


Photo 6 View of the eastern wetland in the open space portion of the project area, facing northeast.

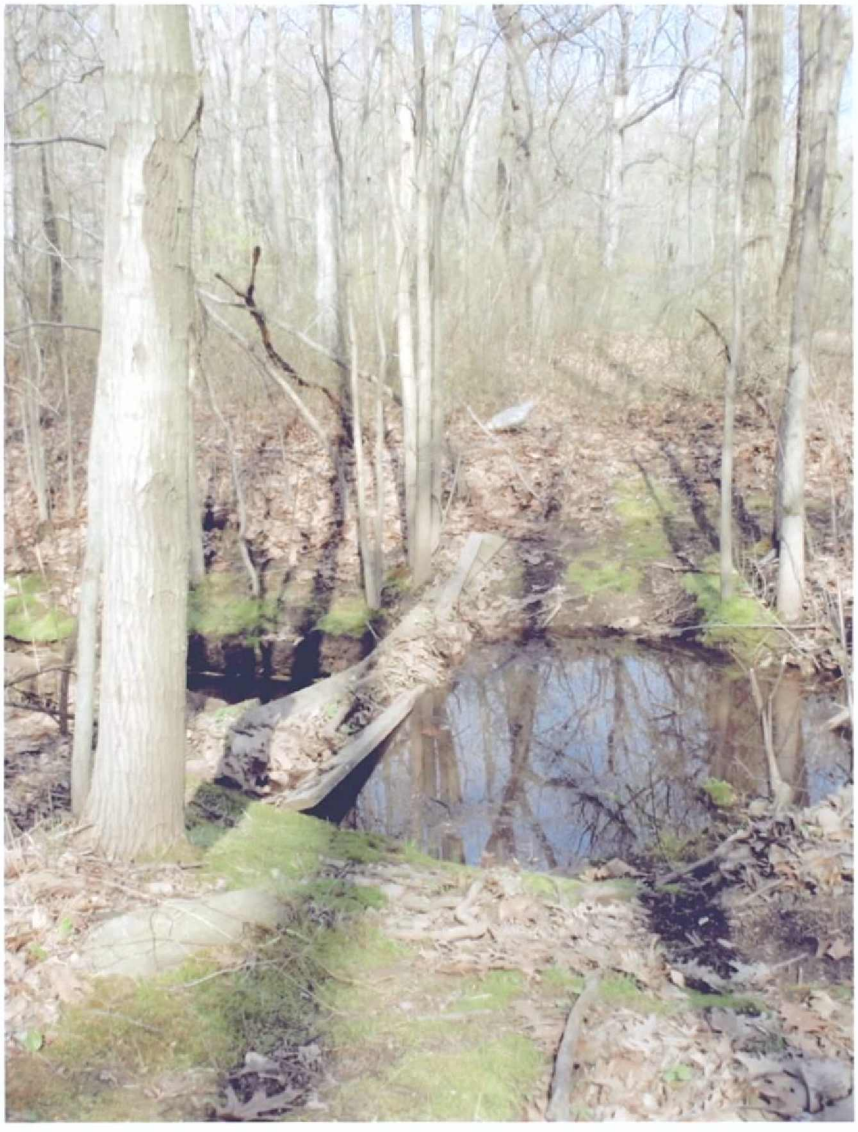


Photo 7 View of the stream, at the dirt road crossing, near the northern boundary of the project area, facing north. Crossing planks have formed a dam.

Photo 8 Brick formation in northeastern section of the open space portion of the project area overlooking the stream, facing south.

Photo 9 Evidence of dirt biking in the central highland area of the open space portion of the project area, facing east.

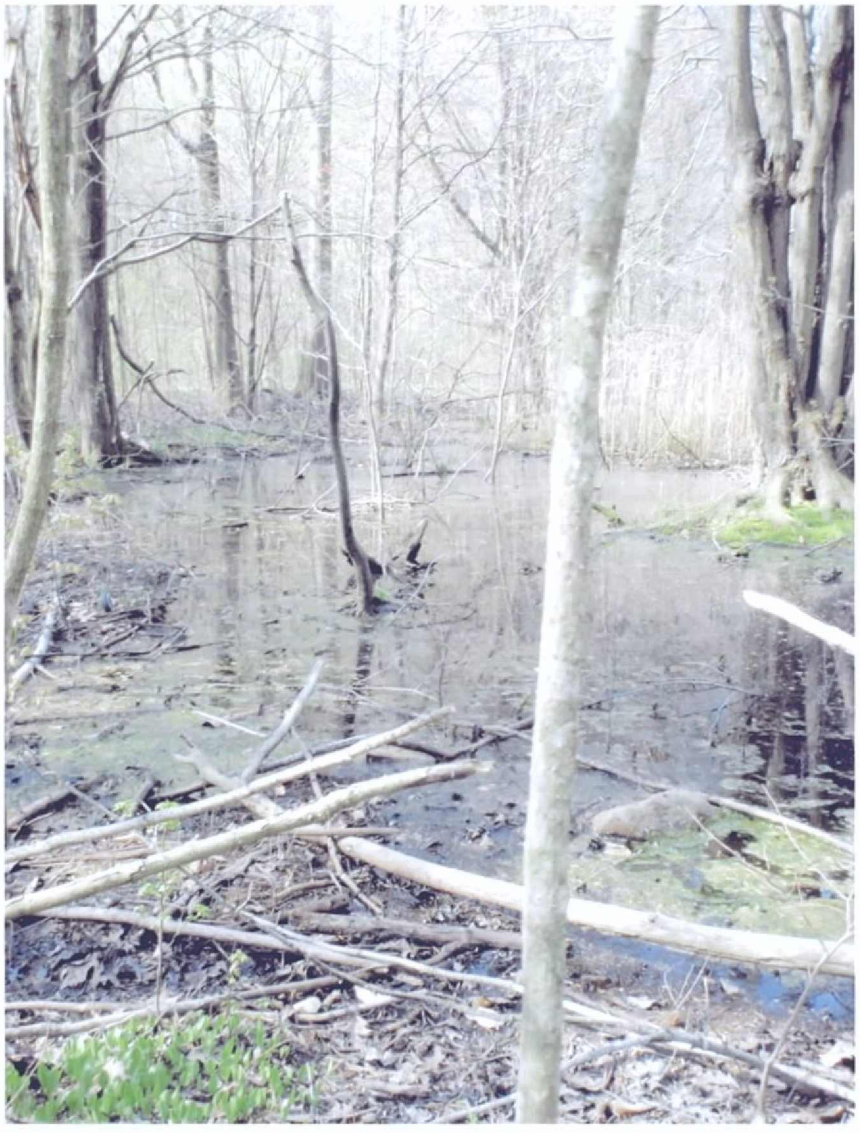


Photo 10 View of the western wetland in the open space portion of the project area, facing southwest.

Photo 11 View of the entrance to the convent, with the stained glass windows of the chapel on the right, facing north.

Photo 12 View of the rear of the convent, between the wings and facing the lunchroom, facing south.

APPENDIX 1

FIELD RECORD FORMS AND CONTEXT NUMBERING

APPENDIX 1
CONTEXT NUMBERING AND PROVENIENCE LABELING

A field recording system which encompasses a variety of conditions and situations is optimal for any archaeological project. Among these situations are the size of the project, the number of different field techniques and the number of expected artifacts. The field recording system used was developed by Greenhouse Consultants and was based on modifications of other accepted systems.

All contexts are numbered in the field and these numbers are applied to the artifacts. The format for numbering is XX-9999.99 where X is alphanumeric and 9 is numeric. The alphanumeric characters to the left of the hyphen are the prefix. The two digits to the right of the decimal point are used only when it is necessary to refer to strata within a context. The four digits between the prefix and decimal subdivision may be called the base code.

The prefix is a two character designation of the project parcel. The four digit numeric base code can be divided into two parts; the first digit being separate from the last three. The first numeric digit indicates the type of field technique used. The codes are as follows:

1000: unprovenienced surface collection
2000: provenienced surface collection
3000: shovel testing
4000: trenching
5000: excavation units
6000: feature excavation
7000: borings
8000:
9000: transects

The three digits following the technique code are unique for each location and are assigned sequentially. Decimal subdivisions may be used for techniques three through six to indicate specific strata. For example, 01-3001.02 refers to Area 1 (01), shovel test (3), number 1 (001), at the second layer (.02).

Shovel Test Stratigraphy Summary
Phase 1B, 419 Woodrow Road

CONTEXT	MUNSELL	COLOR	TEXTURE	DEPTH (cm)	HORIZON	COMMENTS
3001.01	10YR4/3	Dark brown	Silty clay	0-22.8	A	25' NW Woodrow Road
3001.02	2.5YR4/6	Red	Silty clay	22.8-38.1	B	
3002.01	10YR4/3	Dark brown	Silty clay	0-10.2	A	5' S asphalt parking area
3002.02	2.5YR4/6	Red	Clay	10.2-25.4	B	
3003.01	10YR3/3	Dark brown	Silty loam	0-5.2	Topsoil	50' S ST5
3003.02	10YR4/3	Dark brown	Silty clay	5.2-22.8	A	
3003.03	2.5YR4/6	Red	Clay	22.8-38.1	B	
3004.01	10YR3/3	Dark brown	Silty loam	0-5.2	Topsoil	50' E ST4
3004.02	10YR4/3	Dark brown	Silty clay	5.2-25.4	A	
3004.03	2.5YR4/6	Red	Clay	25.4-40.6	B	
3005.01	10YR4/3	Dark brown	Silty clay	0-27.9	B	50' E ST2; w/clay
3006.01	10YR4/3	Dark brown	Silty clay	0-15.2	A	50' E ST5
3006.02	2.5YR4/6	Red	Clay	15.2-30.5	B	
3007.01	10YR3/3	Dark brown	Silty loam	0-5.2	Topsoil	50' N ST6
3007.02	10YR4/3	Dark brown	Silty clay	5.2-30.5	A	
3007.03	2.5YR4/6	Red	Clay	30.5-45.7	B	
3008.01	10YR4/3	Dark brown	Silty clay	0-10.2	A	50' W ST7
3008.02	2.5YR4/6	Red	Clay	10.2-25.4	B	
3009.01	10YR4/3	Dark brown	Silty clay	0-20.3	A	50' W ST8
3009.02	2.5YR4/6	Red	Clay	20.3-35.6	B	
3010.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	50' N ST9
3010.02	10YR4/3	Dark brown	Silty clay	2.6-20.3	A	
3010.03	2.5YR4/6	Red	Clay	20.3-35.6	B	
3011.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	50' E ST10
3011.02	10YR4/3	Dark brown	Silty clay	2.6-10.2	A	
3011.03	2.5YR4/6	Red	Clay	10.2-25.4	B	
3012.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	50' N ST11
3012.02	10YR4/3	Dark brown	Silty clay	2.6-12.7	A	
3012.03	2.5YR4/6	Red	Clay	12.7-27.9	B	
3013.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	50' W ST12
3013.02	10YR4/3	Dark brown	Silty clay	2.6-17.8	A	
3013.03	2.5YR4/6	Red	Clay	17.8-33.0	B	
3014.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	50' W ST10
3014.02	10YR4/3	Dark brown	Silty clay	2.6-20.3	A	

Shovel Test Stratigraphy Summary
Phase 1B, 419 Woodrow Road

CONTEXT	MUNSELL	COLOR	TEXTURE	DEPTH (cm)	HORIZON	COMMENTS
3014.03	2.5YR4/6	Red	Clay	20.3-35.6	B	
3015.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	50' S ST16
3015.02	10YR4/3	Dark brown	Silty clay	2.6-30.5	A	tile, nail
3015.03	2.5YR4/6	Red	Clay	30.5-45.7	B	
3016.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	50' W ST14
3016.02	10YR4/3	Dark brown	Silty clay	2.6-17.8	A	
3016.03	2.5YR4/6	Red	Clay	17.8-33.0	B	
3017.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	50' W ST16
3017.02	10YR4/3	Dark brown	Silty clay	2.6-27.9	A	
3017.03	2.5YR4/6	Red	Clay	27.9-43.2	B	
3018.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	50' W ST17
3018.02	10YR4/3	Dark brown	Silty clay	2.6-22.8	A	ceramics
3018.03	2.5YR4/6	Red	Clay	22.8-38.1	B	
3019.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	50' W ST18
3019.02	10YR4/3	Dark brown	Silty clay	2.6-20.3	A	
3019.03	2.5YR4/6	Red	Clay	20.3-35.6	B	
3020.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	50' S ST19
3020.02	10YR4/3	Dark brown	Silty clay	2.6-27.9	A	
3020.03	2.5YR4/6	Red	Clay	27.9-43.2	B	
3021.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	50' S ST20
3021.02	10YR4/3	Dark brown	Silty clay	2.6-27.9	A	
3021.03	2.5YR4/6	Red	Clay	27.9-43.2	B	
3022.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	50' S ST30
3022.02	10YR4/3	Dark brown	Silty clay	2.6-15.2	A	
3022.03	2.5YR4/6	Red	Clay	15.2-30.5	B	
3023.01	10YR2/1	Black	Silty loam	0-7.6	Topsoil	50' S ST36
3023.02	10YR4/3	Dark brown	Silty clay	7.6-33.0	A	
3023.03	2.5YR4/6	Red	Clay	33.0-48.3	B	
3024.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	50' W ST13
3024.02	10YR4/3	Dark brown	Silty clay	2.6-27.9	A	
3024.03	2.5YR4/6	Red	Clay	27.9-43.2	B	
3025.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	50' S ST24
3025.02	10YR4/3	Dark brown	Silty clay	2.6-25.4	A	
3025.03	2.5YR4/6	Red	Clay	25.4-40.6	B	
3026.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	50' W ST 25
3026.02	10YR4/3	Dark brown	Silty clay	2.6-10.2	A	

Shovel Test Stratigraphy Summary
Phase 1B, 419 Woodrow Road

CONTEXT	MUNSELL	COLOR	TEXTURE	DEPTH (cm)	HORIZON	COMMENTS
3026.03	2.5YR4/6	Red	Clay	10.2-25.4	B	
3027.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	50' W ST26
3027.02	10YR4/3	Dark brown	Silty clay	2.6-10.2	A	
3027.03	2.5YR4/6	Red	Clay	10.2-25.4	B	
3028.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	50' W ST27
3028.02	10YR4/3	Dark brown	Silty clay	2.6-27.9	A	
3028.03	2.5YR4/6	Red	Clay	27.9-43.2	B	
3029.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	50' W ST28
3029.02	10YR4/3	Dark brown	Silty clay	2.6-30.5	A	
3029.03	2.5YR4/6	Red	Clay	30.5-45.7	B	
3030.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	50' W ST21
3030.02	10YR4/3	Dark brown	Silty clay	2.6-22.8	A	
3030.03	2.5YR4/6	Red	Clay	22.8-38.1	B	
3031.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	50' N ST30
3031.02	10YR4/3	Dark brown	Silty clay	2.6-15.2	A	
3031.03	2.5YR4/6	Red	Clay	15.2-30.5	B	
3032.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	50' N ST31
3032.02	10YR4/3	Dark brown	Silty clay	2.6-17.8	A	
3032.03	2.5YR4/6	Red	Clay	17.8-33.0	B	
3033.01	10YR3/3	Dark brown	Silty loam	0-5.2	Topsoil	50' W ST32
3033.02	10YR4/3	Dark brown	Silty clay	5.2-27.9	A	
3033.03	2.5YR4/6	Red	Clay	27.9-43.2	B	
3034.02	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	50' S ST33
3034.02	10YR4/3	Dark brown	Silty clay	2.6-12.7	A	
3034.03	2.5YR4/6	Red	Clay	12.7-27.9	B	
3035.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	50' S ST34
3035.02	10YR4/3	Dark brown	Silty clay	2.6-12.7	A	
3035.03	2.5YR4/6	Red	Clay	12.7-27.9	B	
3036.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	50' S ST35
3036.02	10YR4/3	Dark brown	Silty clay	2.6-12.7	A	
3036.03	2.5YR4/6	Red	Clay	12.7-27.9	B	
3037.01	10YR3/3	Dark brown	Silty loam	0-10.2	Topsoil	50' W ST36
3037.02	10YR4/3	Dark brown	Silty clay	10.2-33.0	A	
3037.03	2.5YR4/6	Red	Clay	33.0-48.3	B	
3038.01	10YR3/3	Dark brown	Silty loam	0-10.2	Topsoil	50' W ST37
3038.02	10YR4/3	Dark brown	Silty clay	10.2-30.5	A	

Shovel Test Stratigraphy Summary
Phase 1B, 419 Woodrow Road

CONTEXT	MUNSELL	COLOR	TEXTURE	DEPTH (cm)	HORIZON	COMMENTS
3038.03	2.5YR4/6	Red	Clay	30.5-45.7	B	
3039.01	10YR3/3	Dark brown	Silty loam	0-10.2	Topsoil	50' W ST38
3039.02	10YR4/3	Dark brown	Silty clay	10.2-25.4	A	
3039.03	2.5YR4/6	Red	Clay	25.4-40.6	B	
3040.01	10YR3/3	Dark brown	Silty loam	0-10.2	Topsoil	50' W ST38
3040.02	10YR4/3	Dark brown	Silty clay	10.2-35.6	A	
3040.03	2.5YR4/6	Red	Clay	35.6-50.8	B	
3041.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	50' N ST13
3041.02	10YR4/3	Dark brown	Silty clay	2.6-20.3	A	pressed glass
3041.03	2.5YR4/6	Red	Clay	20.3-35.6	B	
3042.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	50' W ST41
3042.02	10YR4/3	Dark brown	Silty clay	2.6-20.3	A	
3042.03	2.5YR4/6	Red	Clay	20.3-35.6	B	
3043.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	50' W ST42
3043.02	10YR4/3	Dark brown	Silty clay	2.6-15.2	A	
3043.03	2.5YR4/6	Red	Clay	15.2-30.5	B	
3044.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	50' W ST43
3044.02	10YR4/3	Dark brown	Silty clay	2.6-30.5	A	
3044.03	2.5YR4/6	Red	Clay	30.5-45.7	B	
3045.01	10YR3/3	Dark brown	Silty loam	0-7.6	Topsoil	50' W ST44; mottled w/2.5YR46
3045.02	10YR4/3	Dark brown	Silty clay	7.6-45.7	A	mottled w/10YR3/3
3045.03	2.5YR4/6	Red	Clay	45.7-61.0	B	soils are mottled & appear disturbed
3046.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	50' W ST45
3046.02	10YR4/3	Dark brown	Silty clay	2.6-10.2	A	
3046.03	2.5YR4/6	Red	Clay	10.2-25.4	B	
3047.01	10YR3/3	Dark brown	Silty loam	0-7.6	Topsoil	50' N ST46
3047.02	10YR4/3	Dark brown	Silty clay	7.6-30.5	A	
3047.03	2.5YR4/6	Red	Clay	30.5-45.7	B	
3048.01	10YR3/3	Dark brown	Silty loam	0-7.6	Topsoil	50' E ST47
3048.02	10YR4/3	Dark brown	Silty clay	7.6-33.0	A	
3048.03	2.5YR4/6	Red	Clay	33.0-48.3	B	very wet
3049.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	50' E ST48
3049.02	10YR4/3	Dark brown	Silty clay	2.6-33.0	A	
3049.03	2.5YR4/6	Red	Clay	33.0-48.3	B	
3050.01	2.5YR4/6	Red	Clay	0-15.2	B	50' E ST49

Shovel Test Stratigraphy Summary
Phase 1B, 419 Woodrow Road

CONTEXT	MUNSELL	COLOR	TEXTURE	DEPTH (cm)	HORIZON	COMMENTS
3051.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	50' E ST40
3051.02	10YR4/3	Dark brown	Silty clay	2.6-15.2	A	whiteware
3051.03	2.5YR4/6	Red	Clay	15.2-30.5	B	
3052.01	2.5YR4/6	Red	Clay	0-15.2	B	50' E ST51
3053.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	50' N ST51
3053.02	10YR4/3	Dark brown	Silty clay	2.6-12.7	A	
3053.03	2.5YR4/6	Red	Clay	20.3-35.6	B	
3054.01	10/YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	50' W ST53
3054.02	2.5YR4/6	Red	Clay	2.6-30.5	B	
3055.01	10YR2/1	Black	Silty loam	0-2.6	Topsoil	50' W ST54
3055.02	10YR4/3	Dark brown	Silt	2.6-20.3	A	
3055.03	10YR5/6	Yellowish brown	Sandy clay	20.3-35.6	B	
3056.01	10YR2/1	Black	Silty loam	0-2.6	Topsoil	50' W ST55
3056.02	10YR4/3	Dark brown	Silt	2.6-17.8	A	
3056.03	10YR5/6	Yellowish brown	Sandy clay	17.8-35.6	B	
3057.01	10YR2/1	Black	Silty loam	0-5.2	Topsoil	50' N ST55
3057.02	10YR4/3	Dark brown	Silty clay	5.2-27.9	A	
3057.03	10YR5/6	Yellowish brown	Sandy clay	27.9-43.2	B	
3058.01	10YR2/1	Black	Silty loam	0-5.2	Topsoil	50' E ST57
3058.02	10YR4/3	Dark brown	Silty clay	5.2-30.5	A	
3058.03	2.5YR4/6	Red	Clay	30.5-45.7	B	
3059.01	10YR2/1	Black	Silty loam	0-5.2	Topsoil	50' E ST59
3059.02	10YR4/3	Dark brown	Silty clay	5.2-30.5	A	
3059.03	2.5YR4/6	Red	Clay	30.5-45.7	B	
3060.01	10YR2/1	Black	Silty loam	0-2.6	Topsoil	50' N ST58
3060.02	10YR4/3	Dark brown	Silty clay	2.6-20.3	A	
3060.03	10YR5/6	Yellowish brown	Sandy clay	20.3-35.6	B	
3061.01	10YR2/1	Black	Silty loam	0-2.6	Topsoil	50' W ST39
3061.02	10YR4/3	Dark brown	Silt	2.6-30.5	A	
3061.03	2.5YR4/6	Red	Clay	30.5-45.7	B	
3062.01	10YR2/1	Black	Silty loam	0-2.6	Topsoil	50' N ST61
3062.02	10YR4/3	Dark brown	Silt	2.6-33.0	A	
3063.03	10YR5/6	Yellowish brown	Clay	33.0-48.3	B	
3063.01	10YR2/1	Black	Silty loam	0-2.6	Topsoil	50' E ST62
3063.02	10YR4/3	Dark brown	Silt	2.6-30.5	A	
3063.03	2.5YR4/6	Red	Clay	30.5-45.7	B	

Shovel Test Stratigraphy Summary
Phase 1B, 419 Woodrow Road

CONTEXT	MUNSELL	COLOR	TEXTURE	DEPTH (cm)	HORIZON	COMMENTS
3064.01	10YR2/1	Black	Silty loam	0-2.6	Topsoil	50' W ST62
3064.02	10YR4/3	Dark brown	Silt	2.6-15.2	A	
3064.03	2.5YR4/6	Red	Clay	15.2-30.5	B	
3065.01	10YR3/3	Dark brown	Silty loam	0-5.2	Topsoil	50' N ST62
3065.02	10YR4/3	Dark brown	Silty clay	5.2-17.8	A	
3065.03	2.5YR4/6	Red	Clay	17.8-33.0	B	
3066.01	10YR2/1	Black	Silty loam	0-2.6	Topsoil	50' E ST65
3066.02	10YR4/3	Dark brown	Silt	2.6-33.0	A	
3066.03	2.5YR4/6	Red	Clay	33.0-48.3	B	
3067.01	10YR2/1	Black	Silty loam	0-2.6	Topsoil	50' E ST66
3067.02	10YR4/3	Dark brown	Sandy silt	2.6-30.5	A	
3067.03	2.5YR4/6	Red	Clay	30.5-45.7	B	
3068.01	10YR2/1	Black	Silty loam	0-5.2	Topsoil	50' W ST67
3068.02	10YR4/3	Dark brown	Silty clay	5.2-20.3	A	
3068.03	2.5YR4/6	Red	Clay	20.3-35.6	B	
3069.01	10YR2/1	Black	Silty loam	0-5.2	Topsoil	50' W ST68
3069.02	10YR4/3	Dark brown	Silty clay	5.2-15.2	A	
3069.03	2.5YR4/6	Red	Clay	15.2-30.5	B	
3070.01	10YR2/1	Black	Silty loam	0-10.2	Topsoil	50' N ST65
3070.02	10YR4/3	Dark brown	Silty clay	10.2-20.3	A	
3070.03	2.5YR4/6	Red	Clay	20.3-35.6	B	
3071.01	10YR2/1	Black	Silty loam	0-2.6	Topsoil	50' W ST70
3071.02	10YR4/3	Dark brown	Silty clay	2.6-15.2	A	
3071.03	2.5YR4/6	Red	Clay	15.2-30.5	B	
3072.01	10YR2/1	Black	Silty loam	0-2.6	Topsoil	50' W ST71
3072.02	10YR4/3	Dark brown	Silty clay	2.6-15.2	A	
3072.03	2.5YR4/6	Red	Clay	15.2-30.5	B	
3073.01	10YR2/1	Black	Silty loam	0-2.6	Topsoil	50' E ST70
3073.02	10YR4/3	Dark brown	Silty clay	2.6-10.2	A	
3073.03	2.5YR4/6	Red	Clay	10.2-25.4	B	
3074.01	10YR2/1	Black	Silty loam	0-5.2	Topsoil	50' E ST73
3074.02	10YR4/3	Dark brown	Silty clay	5.2-30.5	A	
3074.03	2.5YR4/6	Red	Clay	30.5-45.7	B	
3075.01	10YR2/1	Black	Silty loam	0-2.6	Topsoil	50' E ST74
3075.03	2.5YR4/6	Red	Clay	2.6-17.8	B	

Shovel Test Stratigraphy Summary
Phase 1B, 419 Woodrow Road

CONTEXT	MUNSELL	COLOR	TEXTURE	DEPTH (cm)	HORIZON	COMMENTS
3076.01	10YR2/1	Black	Silty loam	0-2.6	Topsoil	50' N ST75
3076.02	10YR4/3	Dark brown	Silty clay	2.6-30.5	A	
3076.03	2.5YR4/6	Red	Clay	30.5-45.7	B	
3077.01	10YR2/1	Black	Silty loam	0-7.6	Topsoil	50' W ST76
3077.02	10YR4/3	Dark brown	Silty clay	7.6-25.4	A	
3077.03	2.5YR4/6	Red	Clay	25.4-40.6	B	
3078.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	50' W ST77
3078.02	10YR4/3	Dark brown	Silty clay	2.6-15.2	A	
3078.03	2.5YR4/6	Red	Silty clay	15.2-30.5	B	
3079.01	10YR2/1	Black	Silty loam	0-2.6	Topsoil	50' W ST78
3079.02	10YR4/3	Dark brown	Silty clay	2.6-30.5	A	
3079.03	2.5YR4/6	Red	Clay	30.5-45.7	B	
3080.01	10YR2/1	Black	Silty loam	0-2.6	Topsoil	50' W ST79
3080.02	10YR4/3	Dark brown	Silty clay	2.6-25.4	A	
3080.03	2.5YR4/6	Red	Clay	25.4-40.6	B	Very wet
3081.01	10YR2/1	Black	Silty loam	0-2.6	Topsoil	50' W ST80
3081.02	10YR4/3	Dark brown	Silty clay	2.6-17.8	A	
3081.03	2.5YR4/6	Red	Clay	17.8-33.0	B	
3082.01	10YR2/1	Black	Silty loam	0-2.6	Topsoil	50' W ST81
3082.02	10YR4/3	Dark brown	Silty clay	2.6-25.4	A	mottled w/10YR2/1
3082.03	2.5YR4/6	Red	Clay	25.4-40.6	B	
3083.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	50' N ST82
3083.02	10YR4/3	Dark brown	Silty clay	2.6-35.6	A	
3083.03	2.5YR4/6	Red	Silty clay	35.6-50.8	B	
3084.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	50' E ST83
3084.02	10YR4/3	Dark brown	Silty clay	2.6-27.9	A	
3084.03	10YR5/6	Yellowish brown	Sandy clay	27.9-43.2	B	
3085.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	50' E ST84
3085.02	10YR4/3	Dark brown	Silty clay	2.6-25.4	A	
3085.03	10YR5/6	Yellowish brown	Sandy clay	25.4-40.6	B	
3086.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	50' E ST85
3086.02	10YR4/3	Dark brown	Silty clay	2.6-27.9	A	
3086.03	2.5YR4/6	Red	Clay	27.9-43.2	B	
3087.01	10YR2/1	Black	Silty loam	0-2.6	Topsoil	50' E ST86
3087.02	10YR4/3	Dark brown	Silt	2.6-35.6	A	
3087.03	10YR5/6	Yellowish brown	Clay	35.6-50.8	B	

Shovel Test Stratigraphy Summary
Phase 1B, 419 Woodrow Road

CONTEXT	MUNSELL	COLOR	TEXTURE	DEPTH (cm)	HORIZON	COMMENTS
3088.01	10YR2/1	Black	Silty loam	0-2.6	Topsoil	50' E ST87
3088.02	10YR4/3	Dark brown	Silt	2.6-33.0	A	
3088.03	2.5YR4/6	Red	Clay	33.0-48.3	B	
3089.01	10YR2/1	Black	Silty loam	0-2.6	Topsoil	50' E ST88
3089.02	10YR4/3	Dark brown	Silt	2.6-38.1	A	
3089.03	2.5YR4/6	Red	Clay	38.1-53.3	B	
3090.01	10YR2/1	Black	Silty loam	0-2.6	Topsoil	50' E ST89
3090.02	10YR4/3	Dark brown	Silt	2.6-30.5	A	
3090.03	2.5YR4/6	Red	Clay	30.5-45.7	B	
3091.01	10YR2/1	Black	Silty loam	0-2.6	Topsoil	50' E ST92
3091.02	10YR4/3	Dark brown	Silt	2.6-30.5	A	
3091.03	2.5YR4/6	Red	Clay	30.5-45.7	B	
3092.01	10YR2/1	Black	Silty loam	0-2.6	Topsoil	50' N ST90
3092.02	10YR4/3	Dark brown	Silt	2.6-15.2	A	
3092.03	10YR5/6	Yellowish brown	Clay	15.2-30.5	B	
3093.01	10YR2/1	Black	Silty loam	0-2.6	Topsoil	50' W ST92
3093.02	10YR4/3	Dark brown	Silt	2.6-33.0	A	
3093.03	2.5YR4/6	Red	Clay	33.0-48.3	B	
3094.01	10YR2/1	Black	Silty loam	0-2.6	Topsoil	50' W ST93
3094.02	10YR4/3	Dark brown	Silt	2.6-38.1	A	
3094.03	2.5YR4/6	Red	Clay	38.1-53.3	B	
3095.01	10YR2/1	Black	Silty loam	0-2.6	Topsoil	50' W ST94
3095.02	10YR4/3	Dark brown	Silt	2.6-35.6	A	
3095.03	2.5YR4/6	Red	Clay	35.6-50.8	B	
3096.01	10YR2/1	Black	Silty loam	0-2.6	Topsoil	50' W ST95
3096.02	10YR4/3	Dark brown	Silt	2.6-33.0	A	
3096.03	2.5YR4/6	Red	Clay	33.0-48.3	B	
3097.01	10YR2/1	Black	Silty loam	0-2.6	Topsoil	50' W ST96
3097.02	10YR4/3	Dark brown	Silt	2.6-33.0	A	
3097.03	2.5YR4/6	Red	Clay	33.0-48.3	B	
3098.01	10YR2/1	Black	Silty loam	0-2.6	Topsoil	50' W ST97
3098.02	10YR4/3	Dark brown	Silt	2.6-30.5	A	
3098.03	2.5YR4/6	Red	Clay	30.5-45.7	B	
3099.01	10YR2/1	Black	Silty loam	0-2.6	Topsoil	50' W ST98
3099.02	10YR4/3	Dark brown	Silt	2.6-38.1	A	
3099.03	2.5YR4/6	Red	Clay	38.1-53.3	B	

Shovel Test Stratigraphy Summary
Phase 1B, 419 Woodrow Road

CONTEXT	MUNSELL	COLOR	TEXTURE	DEPTH (cm)	HORIZON	COMMENTS
3100.01	10YR2/1	Black	Silty loam	0-2.6	Topsoil	50' N ST57
3100.02	10YR4/3	Dark brown	Silt	2.6-27.9	A	
3100.03	2.5YR4/6	Red	Clay	27.9-43.2	B	
3101.01	10YR2/1	Black	Silty loam	0-2.6	Topsoil	50' S ST100
3101.02	10YR4/3	Dark brown	Silt	2.6-38.1	A	
3101.03	2.5YR4/6	Red	Clay	38.1-53.3	B	
3102.01	10YR2/1	Black	Silty loam	0-2.6	Topsoil	50' W ST101
3102.02	10YR4/3	Dark brown	Silt	2.6-30.5	A	
3102.03	2.5YR4/6	Red	Clay	30.5-45.7	B	
3103.01	10YR2/1	Black	Silty loam	0-2.6	Topsoil	50' W ST102
3103.02	10YR4/3	Dark brown	Silt	2.6-35.6	A	
3103.03	2.5YR4/6	Red	Clay	35.6-50.8	B	
3104.01	10YR2/1	Black	Silty loam	0-2.6	Topsoil	50' W ST103
3104.02	10YR4/3	Dark brown	Silt	2.6-27.9	A	
3104.03	2.5YR4/6	Red	Clay	27.9-43.2	B	
3105.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	3' N ST51
3105.02	10YR4/3	Dark brown	Silty clay	2.6-22.8	A	
3105.03	2.5YR4/6	Red	Clay	22.8-38.1	B	
3106.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	3' E ST51
3106.02	10YR4/3	Dark brown	Silt	2.6-22.8	A	
3106.03	2.5YR4/6	Red	Clay	22.8-38.1	B	
3107.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	3' S ST51
3107.02	10YR4/3	Dark brown	Silt	2.6-25.4	A	
3107.03	2.5YR4/6	Red	Clay	25.4-40.6	B	
3108.01	10YR2/1	Black	Silty loam	0-2.6	Topsoil	3' W ST51
3108.02	10YR4/3	Dark brown	Silt	2.6-25.4	A	
3108.03	2.5YR4/6	Red	Clay	25.4-40.6	B	
3109.01	2.5YR4/6	Red	Clay	0-15.2	B	10' N ST51
3110.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	10' E ST51
3110.02	10YR4/3	Dark brown	Silt	2.6-22.8	A	
3110.03	2.5YR4/6	Red	Clay	22.8-38.1	B	
3111.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	10' S ST51
3111.02	10YR4/3	Dark brown	Silt	2.6-25.4	A	
3111.03	2.5YR4/6	Red	Clay	25.4-40.6	B	
3112.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	10' W ST51
3112.02	10YR4/3	Dark brown	Silt	2.6-25.4	A	

Shovel Test Stratigraphy Summary
Phase 1B, 419 Woodrow Road

CONTEXT	MUNSELL	COLOR	TEXTURE	DEPTH (cm)	HORIZON	COMMENTS
3112.03	2.5YR4/6	Red	Clay	25.4-40.6	B	
3113.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	3' N ST41
3113.02	10YR4/3	Dark brown	Silt	2.6-17.8	A	
3113.03	2.5YR4/6	Red	Clay	17.8-33.0	B	
3114.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	3' E ST41
3114.02	10YR4/3	Dark brown	Silt	2.6-22.8	A	
3114.03	2.5YR4/6	Red	Clay	22.8-38.1	B	
3115.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	3' S ST41
3115.02	10YR4/3	Dark brown	Silt	2.6-20.3	A	
3115.03	2.5YR4/6	Red	Clay	20.3-35.6	B	
3116.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	3' W ST41
3116.02	10YR4/3	Dark brown	Silt	2.6-20.3	A	
3116.03	2.5YR4/6	Red	Clay	20.3-35.6	B	
3117.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	10' N ST41
3117.02	10YR4/3	Dark brown	Silt	2.6-17.8	A	
3117.03	10YR5/6	Yellowish brown	Clay	17.8-33.0	B	
3118.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	10' E ST41
3118.02	10YR4/3	Dark brown	Silt	2.6-22.8	A	
3118.03	2.5YR4/6	Red	Clay	22.8-38.1	B	
3119.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	10' S ST41
3119.02	10YR4/3	Dark brown	Silt	2.6-20.3	A	
3119.03	2.5YR4/6	Red	Clay	20.3-35.6	B	
3120.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	10' W ST41
3120.02	10YR4/3	Dark brown	Silt	2.6-20.3	A	
3120.03	2.5YR4/6	Red	Clay	20.3-35.6	B	
3121.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	3' N ST18
3121.02	10YR4/3	Dark brown	Silt	2.6-25.4	A	
3121.03	2.5YR4/6	Red	Clay	25.4-40.6	B	
3122.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	3' E ST18
3122.02	10YR4/3	Dark brown	Silt	2.6-22.8	A	
3122.03	2.5YR4/6	Red	Clay	22.8-38.1	B	
3123.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	3' S ST18
3123.02	10YR4/3	Dark brown	Silt	2.6-22.8	A	
3123.03	2.5YR4/6	Red	Clay	22.8-38.1	B	
3124.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	3' W ST18
3124.02	10YR4/3	Dark brown	Silt	2.6-22.8	A	

Shovel Test Stratigraphy Summary
Phase 1B, 419 Woodrow Road

CONTEXT	MUNSELL	COLOR	TEXTURE	DEPTH (cm)	HORIZON	COMMENTS
3124.03	2.5YR4/6	Red	Clay	22.8-38.1	B	
3125.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	10' N ST18
3125.02	10YR4/3	Dark brown	Silt	2.6-25.4	A	
3125.03	2.5YR4/6	Red	Clay	25.4-40.6	B	
3126.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	10' E ST18
3126.02	10YR4/3	Dark brown	Silt	2.6-25.4	A	
3126.03	2.5YR4/6	Red	Clay	25.4-40.6	B	
3127.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	10' S ST18
3127.02	10YR4/3	Dark brown	Silt	2.6-22.8	A	
3127.03	2.5YR4/6	Red	Clay	22.8-38.1	B	
3128.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	10' W ST18
3128.02	10YR4/3	Dark brown	Silt	2.6-22.8	A	
3128.03	2.5YR4/6	Red	Clay	22.8-38.1	B	
3129.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	3' N ST15
3129.02	10YR4/3	Dark brown	Silt	2.6-25.4	A	
3129.03	2.5YR4/6	Red	Clay	25.4-40.6	B	
3130.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	3' E ST18
3130.02	10YR4/3	Dark brown	Silt	2.6-25.4	A	
3130.03	2.5YR4/6	Red	Clay	25.4-40.6	B	
3131.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	3' S ST18
3131.02	10YR4/3	Dark brown	Silt	2.6-22.8	A	
3131.03	2.5YR4/6	Red	Clay	22.8-38.1	B	
3132.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	3' W ST18
3132.02	10YR4/3	Dark brown	Silt	2.6-22.8	A	
3132.03	2.5YR4/6	Red	Clay	22.8-38.1	B	
3133.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	10' N ST15
3133.02	10YR4/3	Dark brown	Silt	2.6-25.4	A	whiteware
3133.03	2.5YR4/6	Red	Clay	25.4-40.6	B	fuel oil covering area
3134.01	10YR3/3	Dark brown	Silty loam	0-2.6	Topsoil	10' E ST15
3134.02	10YR4/3	Dark brown	Silt	2.6-25.4	A	
3134.03	2.5YR4/6	Red	Clay	25.4-40.6	B	
3135.01	10YR4/3	Dark brown	Silt	0-20.3	A	10' S ST15
3135.02	2.5YR4/6	Red	Clay	20.3-35.6	B	
3136.01	10YR4/3	Dark brown	Silt	0-20.3	A	10' W ST15
3136.02	2.5YR4/6	Red	Clay	20.3-35.6	B	

APPENDIX 2

ARTIFACT INVENTORY

APPENDIX 2

A. Table for National Park Service Material Culture Data Base Coding Chart: Groups, Classes and Materials

GROUPS AND CLASSES

01 KITCHEN GROUP
- 01 Dishes
- 02 Containers
- 03 Tableware
- 04 Kitchenware

02 FAUNAL/FLORAL GROUP
- 01 Mammalia
- 02 Aves
- 03 Reptilia
- 04 Amphibia
- 05 Pisces
- 09 Ethnofaunal/Zoological
- 15 Ethnobotanical

03 ARCHITECTURAL GROUP
- 01 Window glass
- 02 Nails
- 03 Spikes
- 04 Door & Window hardware
- 05 Other structural hardware
- 06 Construction materials

04 FURNITURE GROUP
- 01 Hardware
- 02 Materials
- 03 Lighting device
- 04 Decorative furnishings

05 ARMS GROUP
- 01 Projectiles
- 02 Cartridge case
- 03 Arms accessories
- 04 Gun parts

06 CLOTHING GROUP
- 01 Apparel
- 02 Ornamentation
- 03 Making and repair
- 04 Fasteners

07 PERSONAL GROUP
- 01 Coins
- 02 Keys
- 03 Writing paraphernalia
- 04 Grooming and hygiene
- 05 Personal ornamentation
- 06 Other personal items

08 TOBACCO PIPE GROUP
- 01 Kaolin pipe class
- 02 Nonkaolin pipe
- 03 Smoking accessories

09 ACTIVITIES GROUP
- 01 Construction tools
- 02 Farm tools
- 03 Leisure activities
- 04 Fishing gear
- 05 ---
- 06 ---
- 07 Pottery class
- 08 Storage items
- 09 ---
- 10 Stable and barn
- 11 Miscellaneous hardware
- 12 Specialized activities
- 13 Military objects
- 14 Housekeeping
- 15 Public services

10 PREHISTORIC GROUP
- 01 Hunting and fishing activities
- 02 Domestic activities
- 03 Stone working
- 04 Wood working
- 05 Digging tools
- 06 Other fabricating or processing tools
- 07 Other general utility tools
- 08 Ceremonial & ornamental
- 09 Miscellaneous

11 SAMPLES
- -- Charcoal samples for radiocarbon dating
- -- Flotation samples
- -- light fraction
- -- heavy fraction
- -- Soil samples

98 UNSPECIFIED GROUP

MATERIALS - COMMON LIST (CLASSIFIED)

INORGANIC MATERIALS

CERAMIC
- 001 Porcelain
- 002 Stoneware
- 003 Earthenware
- 004 Whiteware/ironstone/granite
- 134 Undifferentiated ceramic

CLAY
- 047 Clay
- 062 Kaolin
- 079 Red clay

CONSTRUCTION
- 069 Brick
- 071 Cement
- 070 Mortar
- 072 Plaster

GLASS
- 013 Milk glass
- 078 Glass
- 112 Slag and clinker

METALS
- 005 Tin
- 019 Silver
- 021 Gold
- 026 Cuprous metal
- 028 Ferrous alloy
- 029 Aluminum
- 032 Steel
- 034 Lead
- 035 Chrome
- 096 Mercury
- 136 Undifferentiated metal

STONE
- 129 Agate
- 075 Asbestos
- 133 Chalk
- 052 Chert
- 042 Granite
- 046 Gravel
- 109 Jet
- 038 Limestone
- 041 Marble
- 049 Mica
- 058 Obsidian
- 057 Ochre
- 068 Precious stone
- 053 Quartz
- 054 Quartzite
- 039 Sandstone
- 044 Shale
- 040 Slate
- 060 Steatite
- 043 Schist
- 126 Undifferentiated stone

ORGANIC MATERIALS

CELLULOSIC
- 115 Bark
- 108 Burlap
- 128 Charcoal
- 092 Cork
- 087 Cotton
- 131 Fiberboard/masonite
- 085 Hemp
- 011 Paper
- 006 Wood
- 121 Cellulose seeds/seed covering

CONSTRUCTION
- 093 Asphalt
- 125 Formica
- 101 Linoleum
- 102 Tar paper

WAX
- 076 Wax

GUM/RESIN
- 010 Rubber, elastic
- 009 Rubber, hard

PETROCHEMICALS
- 073 Carbon
- 095 Coal
- 048 Graphite
- 116 Tar

PROTEIN
- 118 Chitin (arthropod, exoskeleton)
- 106 Felt
- 122 Flesh
- 016 Hair
- 117 Keratin (horns/fingernail/claws)
- 015 Leather
- 107 Silk
- 090 Sponge, natural
- 105 Wool

COMBINATION MATERIALS
- 017 Bone
- 132 Ivory
- 067 Pearl
- 089 Shell

SYNTHETIC MATERIALS
- 103 Celluloid
- 088 Nylon
- 008 Plastic
- 077 Soap
- 091 Sponge, synthetic
- 104 Synthetic

TEXTILE
- 151 Undifferentiated textile

APPENDIX 2

B. Table for Data Base Coding Chart: Groups and Classes

	GROUPS AND CLASSES	SAMPLE ARTIFACTS
01	KITCHEN	
	01 Dishes	Plate, cup, salt cellar
	02 Containers	Bottle glass fragments
	03 Tableware	Eating utensils
	04 Kitchenware	Cooking utensils, pot, kettle
02	FAUNAL/FLORAL GROUP	
	01 Mammalia	Mammal
	02 Aves	Bird
	03 Reptilia	Reptile
	04 Amphibia	Amphibian
	05 Pisces	Fish
	09 Other ethnofaunal/zoological	Oyster, crab, egg shells
	16 Ethnobotanical	Seeds, nuts
03	ARCHITECTURAL GROUP	
	01 Window glass	Window pane glass
	02 Nails	Nails
	03 Spikes	Railroad spikes
	04 Door & Window hardware	Doorknob, door hinge
	05 Other Structural hardware	Pipe, fireplace tiles
	06 Construction materials	Brick, mortar, roofing
04	FURNITURE GROUP	
	01 Hardware	Handle, drawer pull, latch
	02 Materials	Stove parts, chair part, bedframe
	03 Lighting device	Candlestick, lamp base
	04 Decorative furnishings	Flowerpot, clock parts, vase
05	ARMS GROUP	
	01 Projectiles	Shot, bullets
	02 Cartridge case	Cartridge
	03 Arms accessories	Gun flints, bullet molds, powder horn
	04 Gun parts	Pistol barrel, flintlock assembly
06	CLOTHING GROUP	
	01 Apparel	Hat, coat, scarves, glove, shoe
	02 Ornamentation	Beads, sequin, hatpin, feather
	03 Making and Repair	Thimble, straight pin, scissors
	04 Fasteners	Buttons, snaps, buckles, cufflink
07	PERSONAL GROUP	
	01 Coins	Coins
	02 Keys	Door lock keys, padlock keys
	03 Writing paraphernalia	Quill, fountain pen nib, graphite pencil
	04 Grooming & hygiene	Hairbrush, razor, mirror, tweezers
	05 Personal ornamentation	Jewelry, ribbon, ornamental comb
	06 Other personal items	Pocket watch, key chain, pocket knife

	GROUPS AND CLASSES	
08	TOBACCO PIPE GROUP	
	01 Kaolin pipe	Kaolin pipe
	05 Nonkaolin pipe	Corncob pipe
	06 Smoking accessories	Snuff tin, cuspidor, tobacco tin, pipe cleaner
09	ACTIVITIES GROUP	
	01 Construction tools	Axe head, drill bit, saw, paintbrush
	02 Farm tools	Hoe, rake, plow blade
	03 Leisure activities	Marbles, jew's harp, doll parts
	04 Fishing gear	Fish hooks, sinkers, crab trap
	05 —	
	06 —	
	07 Pottery class	Indian water jar, effigy pot
	08 Storage items	Crock, barrel staves, sacks
	09 –	
	10 Stable and barn	Stirrup, horseshoe, rein, harness belt
	11 Miscellaneous hardware	Rope, bolts, nuts, washers, chain
	12 Specialized activities	Button blanks, metallurgic debris, saggars
	13 Military objects	Insignia, bayonets
	14 Housekeeping	Broom, coat hanger, washboard
	15 Public services	Sewer pipe, water pipe
10	PREHISTORIC GROUP	
	01 Hunting and Fishing	Projectile point, atlatl hook
	02 Domestic	Vessel, mortar, pestle
	03 Stone working	Hammerstone, baton, flake, core
	04 Wood working	Celt, grooved axe
	05 Digging Tools	Hoe
	06 Other fabricating or processing tools	Drill, chisel, needle
	07 Other general utility tools	Knife, prismatic blade, chopper
	08 Ceremonial & ornamental	Sheet, gorget, bead
	09 Miscellaneous	Function unknown

APPENDIX 2

C. Table for Data Base Coding Chart: Prehistoric Artifacts - Class and Morphology

Class 01: Hunting and Fishing Activities

01 - Projectile point
02 - Birdstone
03 - Bannerstone
04 - Boatstone
05 - Fish hook
06 - Netsinker
07 - Atlatl hook

Class 02: Domestic Activities

13 - vessel
14 - mortar
15 - pestle
16 - muller
17 - groundstone fragment

Class 03: Stone Working

21 - Hammerstone
22 - Baton
23 - Tine
24 - Splinter
25 - Drift or "punch"
26 - Anvil
27 - Flake, primary
28 - Flake, secondary
29 - Bifacial thinning flake
30 - Core
31 - Blank
32 - Tested piece

Class 04: Wood Working

37 - Celt
38 - Grooved axe
39 - Spokeshave

Class 16: Ethnobotanical

Seeds
Nuts

Class 06: Other Fabricating or Processing Tools

51 - Perforator
52 - Drill
53 - Awl
54 - Reamer
55 - Chisel
56 - Microperforator
57 - Needle
58 - Graver

Class 07: General Utility Tools

67 - Knife
68 - Side scraper
69 - Core scraper
70 - Stemmed end scraper
71 - Other end scraper
73 - Prismatic blade
74 - Chopper
75 - Utilized/Retouched flake
76 - Pitted pebble
77 - Gouge
78 - Maul
79 - Abrader
80 - Whetstone
81 - Biface
82 - Adze
83 - Distolateral scraper
84 - Bifacial end scraper
85 - Bifacial scraper

Class 08: Ceremonial & Ornamental Objects

85 - Angled pipe
86 - Tube
87 - Platform pipe
88 - Cloud blower pipe
89 - Sheet
90 - Plates
91 - Comb
92 - Bead
93 - Gorget
- - Hematite
- - Ochre

APPENDIX 2

D. Table for Data Base Coding Chart: Ambiguous Items of Material Culture

Note: The items listed below may be ambiguous or hard to place in a taxonomic category, but as a convention, for inventory purposes, will be coded as follows:

Unidentified wood fragments		98	00	006
Construction wood		03	06	006
Pegs, Wood planks		03	06	006
Twigs, branches		09	16	006
Burned wood (partial)	Code as wood (above) and put "burnt wood" in the comments section			
Charcoal and all small fragments of completely burnt wood		Code as charcoal		
Coal	98	00	095	
Slag, burned coal, vitrified metalworking or manufacturing by-products	98	00	112	
Pantiles	03	06	003	
Delft fireplace tiles, wall skirting, etc.	04	04	003	
Porcelain bathroom tiles, other bathroom furniture (tub, toilet, etc.)	03	05	001	
Chamber pot	04	02	00-	
Flowerpot	04	04	002	00-
Teeth	02	--	132	
Fish scales	02	09	118	
Coral	04	04	119	
Eggshell	02	09	119	
Seeds, seed covering	02	16	121	
Schist (construction)	03	06	043	
Schist (unidentified)	98	00	043	
Red brick	03	06	169	
Yellow brick	03	06	155	
Linoleum	03	06	101	
Metal hardware (probably construction)		03	06	( )
Furniture hardware		04	01	( )
Miscellaneous hardware (other and unidentified including screws, car parts)		09	11	( )
Leather shoe parts		06	01	015
Unidentified leather scraps		98	00	015
Leather personal items		07	()	015

ARTIFACT INVENTORY Phase 1B
419 Woodrow Road
Staten Island
Richmond County, New York

Context	Gp	Cl	Mph	Mat	Identity	Count	Comments	Reference	Range	Cat#
** Context 3015.02										
3015.02	01	01		004	Ironstone	1	Base Undecorated			1
3015.02	03	02		028	Nail	1	Rusted Wire 7cm			2
** Subtotal **						2				
** Context 3018.02										
3018.02	04	04	003	001	Porcelain	1	Molded exterior Dark brown glaze Vase/figurine fragment			3
3018.02	01	01		004	Ironstone	1	Undecorated			4
** Subtotal **						2				
** Context 3041.02										
3041.02	01	01		078	Tableware glass	1	Clear Press-molded floral exterior			5
** Subtotal **						1				
** Context 3051.02										
3051.02	01	01		004	Ironstone	1	Base spall w/footring Undecorated			6
** Subtotal **						1				
** Context 3130.02										
3130.02	01	02		078	Container glass	1	Clear			7
** Subtotal **						1				
** Context 3132.02										
3132.02	03	02		028	Nail	1	Rusted & corroded Wire 5.8cm			8
** Subtotal **						1				
** Context 3133.02										
3133.02	01	01		004	Ironstone	1	Undecorated spall Brim fragment			9
** Subtotal **						1				
*** Total ***						9				

Appendix 3

Building/Structure Inventory

HISTORIC RESOURCE INVENTORY FORM

NYS OFFICE OF PARKS, RECREATION
& HISTORIC PRESERVATION
P.O. BOX 189, WATERFORD, NY 12188
(518) 237-8643

OFFICE USE ONLY
USN:

IDENTIFICATION

Property name(if any) 419 Woodrow Road

Address or Street Location 419 Woodrow Road

County Richmond Town/City _____ Village/Hamlet: Greenridge

Owner Order of the Presentation Sisters Address 419 Woodrow Road, Staten Island, New York

Original use Religious, convent Current use Religious, convent

Architect/Builder, if known _____ Date of construction, if known 1960s

DESCRIPTION

Materials -- please check those materials that are visible

Exterior Walls:	☐ wood clapboard	☐ wood shingle	☐ vertical boards	☐ plywood	
	☐ stone	☒ brick	☐ poured concrete	☐ concrete block	
	☐ vinyl siding	☐ aluminum siding	☐ cement-asbestos	☐ other: _____	
Roof:	☐ asphalt, shingle	☐ asphalt, roll	☐ wood shingle	☐ metal	☐ slate
Foundation:	☐ stone	☒ brick	☐ poured concrete	☐ concrete block	

Other materials and their location: _____

Alterations, if known: _____ Date: _____

Condition: ☒ excellent ☐ good ☐ fair ☐ deteriorated

Photos

Provide several clear, original photographs of the property proposed for nomination. Submitted views should represent the property as a whole. For buildings or structures, this includes exterior and interior views, general setting, outbuildings and landscape features. Color prints are acceptable for initial submissions.

Please staple one photograph providing a complete view of the structure or property to the front of this sheet. Additional views should be submitted in a separate envelope or stapled to a continuation sheet.

Maps

Attach a printed or drawn locational map indicating the location of the property in relationship to streets, intersections or other widely recognized features so that the property can be accurately positioned. Show a north arrow. Include a scale or estimate distances where possible.

Prepared by: Greenhouse Consultants address 40 Exchange Place, 13th Floor, New York, New York 10005

Telephone: 212-514-9520 email _____ Date April 30, 2008

(See Reverse)

PLEASE PROVIDE THE FOLLOWING INFORMATION

IF YOU ARE PREPARING A NATIONAL REGISTER NOMINATION, PLEASE REFER TO THE ATTACHED INSTRUCTIONS

Narrative Description of Property: Briefly describe the property and its setting. Include a verbal description of the location (e.g., north side of NY 17, west of Jones Road); a general description of the building, structure or feature including such items as architectural style (if known), number of stories, type and shape of roof (flat, gabled, mansard, shed or other), materials and landscape features. Identify and describe any associated buildings, structures or features on the property, such as garages, silos, privies, pools, gravesites. Identify any known exterior and interior alterations such as additions, replacement windows, aluminum or vinyl siding or changes in plan. Include dates of construction and alteration, if known. Attach additional sheets as needed.

A U-shaped asphalt drive enters the gated covent from Woodrow Road. On the east side is a one story garage, connected by an passageway to the two-story eastern brick wing of the convent. A one story brick module is attached to the front of the eastern wing, which contains the chapel and other small rooms. The H-bar and the western wing are one story brick construction. At the rear of the western wing is a wooden deck with a ramp. A large asphalt driveway/parking area lies on the west side of the western wing. On the northwest corner of the parking area is a one story masonry garage, with steel containers lining its north side and a small concrete building on its northeast side.

The convent is in an H-shape. The main entrance has an entry chamber with a waiting room to the left. To the right lie various utility rooms. The corridors are dark since they are interior with the various rooms opening onto the corridors. The individual rooms are brightly lit through banks of windows on the exterior walls. To the west side of the H-corridor, are the kitchen area and dining area. On the north side of the H-bar corridor is an enclosed patio lunchroom. On the south side of the H-bar is the chapel with its stained glass windows facing west. On the east side of the H-bar corridor are various offices and other rooms.

Narrative Description of Significance: Briefly describe those characteristics by which this property may be considered historically significant. Significance may include, but is not limited to, a structure being an intact representative of an architectural or engineering type or style (e.g., Gothic Revival style cottage, Pratt through-truss bridge); association with historic events or broad patterns of local, state or national history (e.g., a cotton mill from a period of growth in local industry, a seaside cottage representing a locale's history as a resort community, a structure associated with activities of the "underground railroad."); or by association with persons or organizations significant at a local, state or national level. Simply put, why is this property important to you and the community. Attach additional sheets as needed.

Construction of the new convent has commenced at the southwestern corner of the project area. The current convent and its associated outbuildings will be demolished.