Appendix R-3
Phase II Addendum Archaeological Investigations at Indian Hills Prehistoric Sites A, B & C for the proposed Additional Improvements at the Indian Hills Golf Course

Tracker Archaeology, Inc.
March 2019

Phase II Addendum Archaeological Investigations at Indian Hills Prehistoric Sites A, B, & C for proposed Additional Improvements at the Indian Hills Golf Course Fort Salonga (Northport), Township of Huntington, Suffolk County, New York

March 2019

Prepared for:
The Northwind Group, Haupaugue, New York

Alfred G. Cammisa, RPA
with Alexander Padilla (CAD)

968

MANAGEMENT SUMMARY

PR#:
17PR00525

Involved agencies:
Town of Huntington

Phase:
Phase II Addendum for additional development areas

Location:
Fort Salonga (previously as Northport)
Town of Huntington
Suffolk County

Site Areas:
-Site A (including 2015 area):The greater part of Site A was subjected to a Phase II in 2015. At that time site size was estimated at about 600 feet N/S by 300 feet E/W although the concentration of the site, was about 100 feet by 25 feet. Current investigations extended this site south east approximately 75 feet from the 2015 concentration. However, much of this new area was impacted by a gravel pathway.
-Site B: This site, located under the active part of the golf course and on either side of a paved cart path, is approximately 30 feet in diameter.
-Site C The site size was about 30 feet E/W by 40 feet N/S on a residential property owned by the golf course. This site is impacted by a gravel driveway.

USGS:
Northport, NY

Survey overview:
ST no. & interval: 134 at 10 to 25 foot intervals
TU # & size: 14 TU's, 1 m sq.
Size of freshly plowed area: na
Surface survey transect interval: na

Results:
Sites A, B, & C not eligible due to small, very low artifact densities and impacts at Sites A & C from gravel drive & path. Site B extends off project area

Structures:
No. Of buildings/structures/cemeteries in project area: none
No. Of buildings/structures/cemeteries adjacent to project area: none
No. Of previously determined NR listed or eligible buildings/structures/cemeteries/districts: none
No. Of identified eligible buildings/structures/cemeteries/districts: none

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Date of Report:
Report completed March, 2019

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INTRODUCTION

Between December 11, 2018 and January 15, 2019, TRACKER Archaeology, Inc. conducted an addendum Phase II intensive survey for the proposed additional improvements at the Indian Hills Golf Course in Northport, Town of Huntington, Suffolk County, New York.

Previous work on the golf course property included a Phase IA documentary study and IB archaeological study, conducted in 2015. The Phase IB encountered a small prehistoric site (10304.001236). Recommendations were made to conduct a Phase II intensive testing of the Indian Hills Site if avoidance was not an option (see Cammisa 2015). That Phase II was also conducted in 2015.

In 2018, additional Phase I investigations were conducted due to additional development plans. The 2018 Addendum Phase IB encountered isolated finds across an additional 32 acres of proposed development on the golf course. In addition, another 3 prehistoric sites, Indian Hills Site A, Site B (10304.001237), & Site C (10304.001238) were encountered. Indian Hills Site A is actually adjacent to the 2015 site and considered part of the same site (10304.001236). New York SHPO recommended that in addition to a Phase II at sites A, B, and C that work be conducted into the 2015 area and this is included as part of Site A Phase II work here (Lloyd: letters dated October 30 & November 2, 2018).

The study was conducted by TRACKER Archaeology, Inc. of Monroe, New York. Field work was conducted by field director, Alexander D'Amico, M.S., crew. chief, Samantha Serfontien, M.A. and field technician Daniel Cartwright. Artifact analysis by Joseph Diamond, PhD. Report preparation was conducted by Alfred G. Cammisa, with Alexander Padilla (CAD).

The work was performed for The Northwind Group, Haupaugue, New York.

RESEARCH QUESTIONS

-What is the temporal affiliation of the 3 sites?
Previous interrogations at Site A recovered a Rossville point loosely dated to the Early Woodland, but also spanning to the Terminal Archaic to Middle Archaic periods. Additional diagnostic points, pottery, other artifacts, or radiocarbon from features can solve determine if sites A, B & C are related.

-What activities are present on the Indian Hills Sites A, B, & C? Are they replicated or different?
Defining artifact types and identify associated tasks will answer this.

-Can site seasonality be determined?
Flotable features could possibly identify seasonality.

-Did the natural or cultural landscape and/or resources of the area influence the inhabitants activities?

-Is the Indian Hills Sites A, B, and/or C eligible for nomination to the National or State Registers of Historic Places?
National or State Registers of Historic Places? Criteria needed to assist in this determination include:

1) Site integrity, including the depth and extent of undisturbed soil horizons and the presence or absence of cultural features and the degree of natural and/or human disturbance to those features.
2) Cultural components/affiliations and time range present.
3) Vertical (stratigraphy) and horizontal (spatial) distribution of the archaeological remains.
4) Site interpretation should demonstrate any uniqueness or significance in a local or regional context.

FIELD METHODS

Phase II field work took place between December 11, 2018 and January 15, 2019. Field methods consisted of the excavation of additional close interval ST's and 1 meter square test units (TU's).

Phase II Close Interval Shovel Testing
Phase II shovel testing was designed to test these (3) small, low density sites. Phase II shovel tests were therefore conducted at 10 foot intervals at Sites, A, B, & C, and including the 2015 area.

Test Units
Test units were placed primarily in areas of highest artifacts concentration for this site. Test units measured 1 meter square. They were dug by natural stratigraphy. Excavation ceased at 10 cm. into culturally sterile subsoil.

Excavation of the 1 meter square TU's was accomplished manually with the use of shovel and trowels. Shovel technique utilized was the "skimming" method. Soil horizon interfaces or any potential feature stains were troweled in an attempt to uncover cultural features. Elevations of stratigraphy were recorded with the use of a line level which was placed at 10 cm above ground surface, usually at the corner with the highest elevation.

Pre-printed ST field forms were completed for all ST's. Note for all TU's were transcribed on pre-printed TU field forms. These were completed for each TU and level. Notes and sketches were also recorded in a field journal. Photographs were taken of stratigraphically profiled TU walls, environmental information, and general work in progress.

Soils were screened though a 1/4 inch wire mesh and analyzed for artifacts. Excavated soils were subjected to 100% screening. Stratigraphic profiles were mapped for TU's. All artifacts were bagged by TU and level, provenienced, and returned to the laboratory for processing and analyses.

FIELD RESULTS

Phase II addendum investigations at Indian Hill Sites A, B, and C included 134 close interval ST's and 14 TU's. The shovel testing started off with ST 398 because the Phase IB addendum ended in ST 397.

Close Interval Shovel Testing
Shovel testing of Indian Hills Sites A (incorporating the 2015 area), B, & C included a 10 foot ST interval across each of these sites. The 2018 Site A shovel testing extended into the adjacent 2015 area which had been subjected to a Phase II at that time.

Site B: ST's 398 to 430, this was in the golf course proper (under the mowed green grass),
Site A: ST's 431 to 497, in the brush adjacent to the active part of the golf course and including re-testing the 2015 area of artifact concentration,
Site C: ST's 498 to 531, in a wooded residential property owned by the golf club.

Phase II shovel testing confirmed the following:
-Sites A, B, & C were each small, very low density prehistoric sites,
-Both Site A & Site C were impacted by gravel, a gravel path at site A, seemingly separating part of the 2015 area from the 2018 area and a gravel driveway at Site C which seemed to have pushed the prehistoric site to one side.

Test Excavation Units

Fourteen TU's were excavated during the Phase II at Indian Hills Sites:
Areas for placement of TU's on these small lithic scatter was determined on ST artifact counts (Phase II & Phase IB) and types from either the current Phase II or the recent Phase I.

Site B:
This site was under the mowed, active portion of the golf course lawn adjacent to paved road. This site extended east off project area. Four TU's were excavated here.

Test Unit 1 was excavated next to positive ST 421 which produce a probable core. Since this TU produced a chert spear point, TU's 3 and 6 were subsequently excavated adjacent to TU1 to the north and south.

Test Unit 2 was placed near positive ST 418 which produce 1 flake.

Site A:
There was a gravel path in this area which was avoided when placing TU's. The gravel path appeared to go though the current (2018) portion of Site A & separate part of it the from the 2015 area of Site A. Some gravel, as well as modern and historic artifacts were recovered here. Six TU"s were conducted at Site A, 4 of which were in the 2015 area. Most of the re-testing of the 2015 area of this site came up negative. As such, placement for TU's became partially dependent on re-locating some of the old (2015) TU and ST (flags or transect line) locations.

Test Unit 4 was placed near positive ST 453 at Site A near the 2015 area of work.

TU 5 was placed next to the 2018 Phase I positive ST 82 at Site A which produced 2 flakes.

TU's 7, 8, 9, & 10 were excavated in the 2015 area of Site A. Test unit 7 near 2015 positive ST's, TU 9 near an old 2015 TU (possibly TU 4),TU 8 at positive ST 483, & TU 10 near the north end of Site A near 2015 positive ST's (possibly ST290).

Site C:
There was a gravel driveway at this site which impacted some of the TU's. Four TU's were conducted here. This site is clustered along the north side of a driveway and in mostly disturbed soils which may have been brought in from elsewhere (perhaps further down the driveway).

TU 11 was placed in site C next to positive ST 504 which produced 2 flakes and Phase IB radial 279 3mS which produced 30 flakes, TU 12 was placed adjacent to TU 11. These TU's produced gravel from the gravel driveway along with artifacts of the same raw material. These TU's exhibited grading disturbance.

TU 13 was placed near Phase IB radial 3mW (of ST 279) which produced 2 flakes & 1mW with 3 flakes, and further from the gravel driveway impacts.

TU 14 was excavated near positive ST 503 which produced 3 flakes and Phase I radial 3mE (of ST 279) which produced 6 flakes and also further from the driveway impacts than TU's 11 & 12.

Stratigraphy

Stratigraphy taken from TU's and consisted of:

Level 1, A/O Horizon - about 0 to 9 cm. thick of root mat, leaf litter and humus. At times this level was absent.

Level 2, A Horizon - about 5 to 38 cm. thick of 10YR4/3 brown to 10YR3/3 dark brown, loamy sand. This layer was disturbed as it contained occasional modern and possible historic artifacts.

Level 3, B Horizon, subsoil -. dug into 10 cm. of 10YR 5/6 yellow brown loamy sand. This was a culturally sterile layer.

Level 4, overburden from redeposited subsoil, 10YR5/6 loam, about 0 to 22 cm. thick only in TU's 11 & 12 near the gravel driveway at site C.

Level 5 a fill/grading incident with 10YR3/2 loam and grey sand, about 0 to 34 cm. thick, only in TU's 11 & 12 which are near the gravel driveway at site C.

Level 6, clay lens, about 3 to 5 cm. only in TU 7.

LABORATORY METHODS

Methods used consisted of the investigation of raw material variety, flake attributes such as decortication reduction sequences, tool identification, and edgeware analysis (retouch and utilization). Artifacts were weighed, selected whole points and other selected tools were measured. Analysis was, for the most part, conducted macroscopically (with the naked eye). The use of a hand lens or microscope may have been also used in some instances for determining use wear versus retouch, mineral composition, and some general analysis.

LABORATORY RESULTS

Phase II investigations of theIndian Hills Site resulted in the recovery of 193 prehistoric artifacts, 168 from TU's and 25 from ST's at Sites A, B, and C. The exact type of artifacts and its location are listed in appendix 3 (Inventory).

Lithic artifacts:

Debitage

Total Debitage (% of Phase II lithics)	tertiary flakes (% of debitage	secondary flakes (% of debitage	primary flalkes (% of debitage)	Cores (% of Phase II lithics)
179 (92.5%)	125	11	43	3 (1.5%) & 1 Biface/core

Tools

Total tools (% of Phase II lithics)	Points (% of tools)	Bifaces (% of tools)	Utilized flakes (% of tools)	Drill (% of tools)
10 (5.5%)	1	7 Including a Biface/core	1	1

Fire Cracked Rock
A total of 1 quartzite FCR (.5 % of lithics).

Material
Virtually all raw material was of quartzite/quartz with the 1 exception of the chert Late Archaic point.

LOCATION OF ARTIFACTS

Artifacts by ST

ST	SITE	COUNT	TYPE
398	B	1	flake
402	B	1	flake
414	B	1	flake
418	B	1	flake
421	B	1	Biface/core
422	B	1	flake
423	B	1	flake
439	A	2	flakes
440	A	1	flake
442	A	1	flake
446	A	1	flake
453	A	1	flake
478	A	1	flake
483	A	1	flake
502	C	2	Drill, flake
503	C	3	flakes
504	C	2	flakes
523	C	1	flake
524	C	2	flakes

Artifacts per TU:

TU	SITE	ARTIFACT COUNT (% PER TU)	ARTIFACT TYPES
1	B	6 (3.5%)	Brewerton SN-like chert point, Biface, 1 FCR, tertiary flakes
2	B	24 (14%)	Core, Biface, Utilized flake, tertiary & primary flakes
3	B	5 (3%)	tertiary & primary flakes
4	A	0	
5	A	35 (21%)	Biface, all flake types
6	B	8 (5%)	Biface, all flake types
7	A	2 (1%)	tertiary & primary flakes
8	A	2 (1%)	Core, tertiary flake
9	A	9 (5.5%)	Core, all flake types
10	A	0	
11	C	40 (24%)	Biface, tertiary flakes
12	C	27 (16%)	Biface, primary & tertiary flakes
13	C	5 (3%)	tertiary & primary flakes
14	C	5 (3%)	primary & secondary

Artifacts by Level for TU's:

LEVEL	COUNT	ARTIFACT TYPE
1	0	
2	168	(see TU table above)
3	0	

CULTURAL INTERPRETATIONS

The Indian Hills Sites A, B, & C appears to represent a series of small area, low artifact density scatters of prehistoric activity revolved around hunting, butchering and stone tool production with some leather and/ or wood working. Site A was dated during the 2015 Phase IB with a Rossville point from Early Woodland (but possibly Terminal Archaic to Middle Woodland Periods) and that site was expanded during the current investigations. Site B is dated with a chert Brewerton side notch point to the Late Archaic. Site C is un-dated.

Activities on site appear to include:
-Hunting as evidenced by 1 point.

-Butchering & Side Preparation with 7 bifaces & a Utilized flake

-Ephemeral Cooking as shown by 1 FCR

-Woodworking (or possible leather working) with 1 Drill

-Stone Tool Production-Final stage as shown by 125 tertiary flakes and bifaces

-Stone Tool Production- Initial stage shown by 43 primary flakes & 3 cores

Site Patterns:
The greater part of Site A was subjected to a Phase II in 2015. At that time site size was estimated at about 600 feet N/S by 300 feet E/W although the concentration of the site, was about 100 feet by 25 feet. The 2018 addendum work extended this site south east approximately 75 feet from the 2015 concentration. However, much of this new area was impacted by a gravel pathway.

Artifacts recovered here during the 2015 excavation included a Rossville point which suggests an Early Woodland Period occupation but also possibly as early as the Terminal Archaic Period or as late as Middle Woodland. The site also included bifaces, another point (tip), a quartzite crystal, 1 FCR, and flakes, indicative of hunting, butchering, stone tool production, especially the late stages, and possible ceremonialism. This area also recovered a small amount of olive green bottle glass and 19th century ceramics. There were also scattered remains spreading to the northwest that included black/olive green bottle glass drill & utilized flake, another biface and several flakes.

The current Phase II work here produced a biface and all flake types indicating the tasks of stone tool production, especially the early stages, and likely butchering. Site density here was low, from a high of 35 for TU 5 to 0 for TU's 4 and 10. Test units 7,8, & 9 produced 2, 2, & 9 artifacts respectively.

Site B is approximately 400 feet to the southeast of Site A. This station produced a Late Archaic chert Brewerton side notch point, 3 bifaces, a utilized fake, a core/biface, 3 more cores, 1 FCR and all flake types indicative of hunting, butchering, hide preparation, and stone tool production.

This site, located under the active part of the golf course and near a paved cart road and extending east off project area, is approximately 30 feet in diameter. Site density here was low, ranging between 5 to 24 artifacts per TU, although most of the TU counts were in the single digits.

Site C was located south of Breeze Hill Road, about 2900 feet south of Site A, on residential property, and adjacent to a gravel driveway which impacted soils on this site. Site size here was about 40 feet E/W by 30 feet N/S. Artifact density ranged between 5 to 40 per TU. This site produced 2 bifaces, a Drill, and all flake types at this time. In addition, the Phase IB here also recovered a drill, spokeshave, shredder, (scraper with jagged edge) and a knife/scraper. Combined, these indicate leather working/hide preparation, woodworking, butchering, and stone tool production. However, impacts from the driveway

included grading and possible filling to the stratigraphy and the inclusion of cracked quartz gravel. It appears that the driveway grading pushed the prehistoric site to one (north) side. Three negative ST's at 25 foot intervals were excavated on the south side of the driveway to confirm the site border. No diagnostics were recovered from Site C.

Surrounding Settlement Patterning

-The Indian Hills Sites A and B are situated along a high bluff overlooking the Long Island Sound. Prehistoric sites are reported from Fresh Pond to the east, through Indian Hills Golf Club (NYSM 7616 & 707), to Makamah Beach which is close to to Site A, to the west.

Site C however is situated further to the south, about 2900 feet south of Site A, out of view of the coast. Site C is also about 1487 feet east of a creek which flows north into the marshes of Crab Meadow and the Long Island Sound. The creek roughly parallels Makamah Road. Site C is also about 3161 feet north of the Timber Point Site. Timber Point site is about 1509 feet east of same aforementioned creek. This site produced 39 flakes with no diagnostics.

The IGTS302-1-2 Site is about 2706 feet west of the same creek and 1856 feet south of Crab Meadow marshes and as far south of the coast as the Timber Point site. The Timber Point site produced Wading River post and and flakes. Both sites, Timber and IGTS 302-1-2, were near a probable Indian foot trail along Route 25A, Ft. Salonga Road (see Cammisa 2015).

The native inhabitants here appear to travel by a network of open water, along the Long Island Sound, tributaries, and incorporating foot trails. Some of the foot trails are dated back through to the Late Archaic Period (see Cammisa et al 2000).

SUMMARY AND RECOMMENDATIONS

The Indian Hills Sites A, B, & C appears to represent a series of small area, low artifact density scatters of prehistoric activity revolved around hunting, butchering and stone tool production with some leather and/or wood working. Site A was dated during the 2015 Phase IB with a Rossville point from Early Woodland but possibly Terminal Archaic to Middle Woodland Periods) and that site was expanded during the current investigations. Site B is dated with a chert Brewerton side notch point to the Late Archaic. Site C is un-dated.

A site is eligible for nomination to the National Register of Historic Places if it meets one or more of the following criteria (as set forth in 9 NYCRR 427 and 428 or CRF 800):

A) Associated with events that have made a significant contribution to the broad patterns of our history;
B) Associated with the lives of persons significant in our past;
C) Embodies the distinctive characteristics of a type, period, or method of construction, or represents a significant and distinguishable entity whose components may lack individual distinctions; or
D) Has yielded, or may be likely to yield, information important in prehistory or history.

In our opinion, the Indian Hills Site A, B, and, C do not have research value that would make them eligible for the historic registers for the following reasons:

-All 3 sites are small, low artifact density sites,
-Sites A and C are both impacted by a gravel path and driveway respectively.
-Site C is also un-dated,
-Sites A and B have a certain amount of artifact mixing from modern and historic periods, likely due to golf course rotor-tilling/landscaping or former plowing,
-In addition, no features are on this site.

No further work is therefore recommended.

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October 30, Letter to Craig Turner-Dept. Of Planning & Environment.

United States Geological Survey
1967 *Northport, New York* quadrangle, 7.5 minute series.

APPENDIX 1

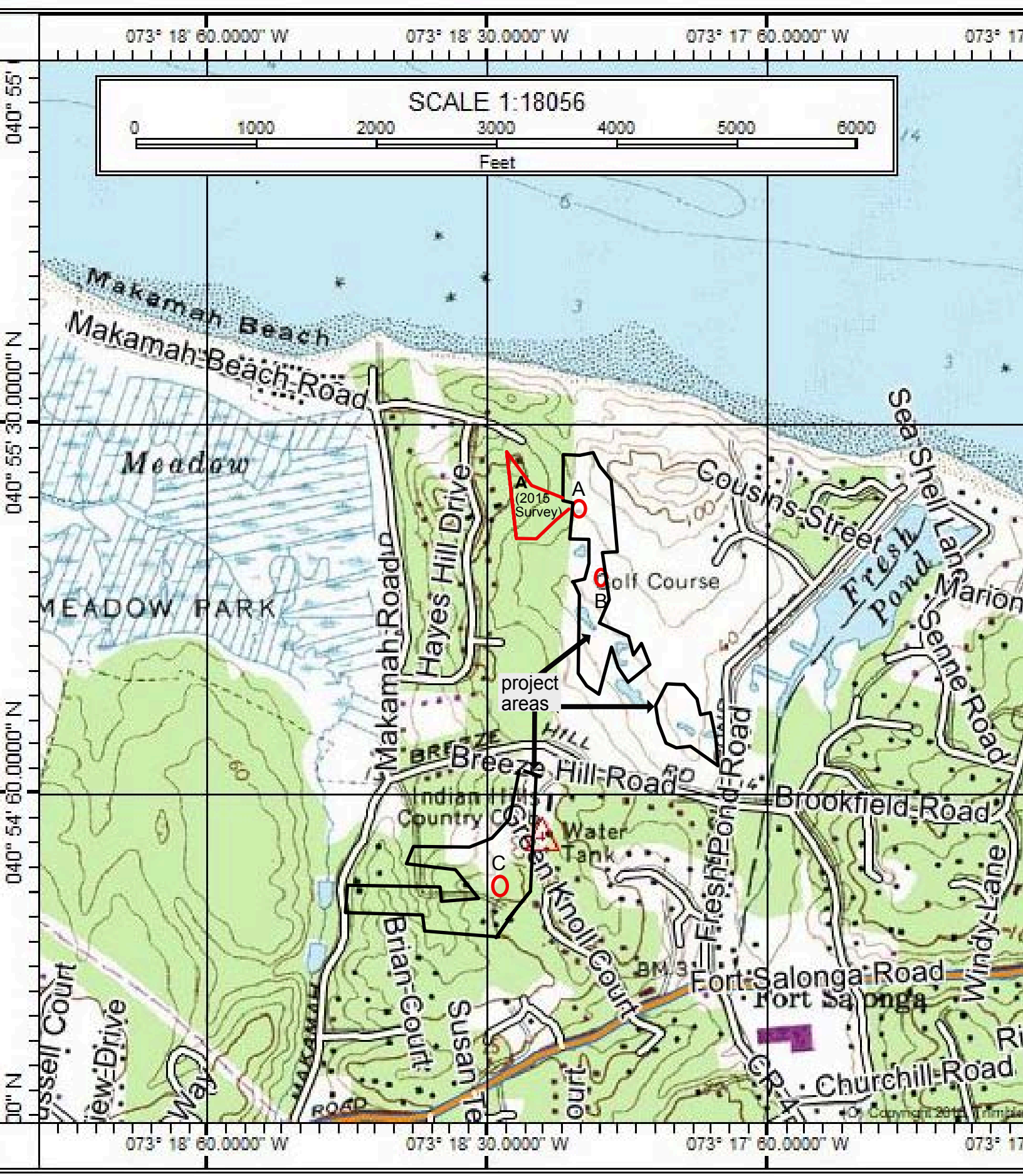


Figure 1

Northport, NY USGS

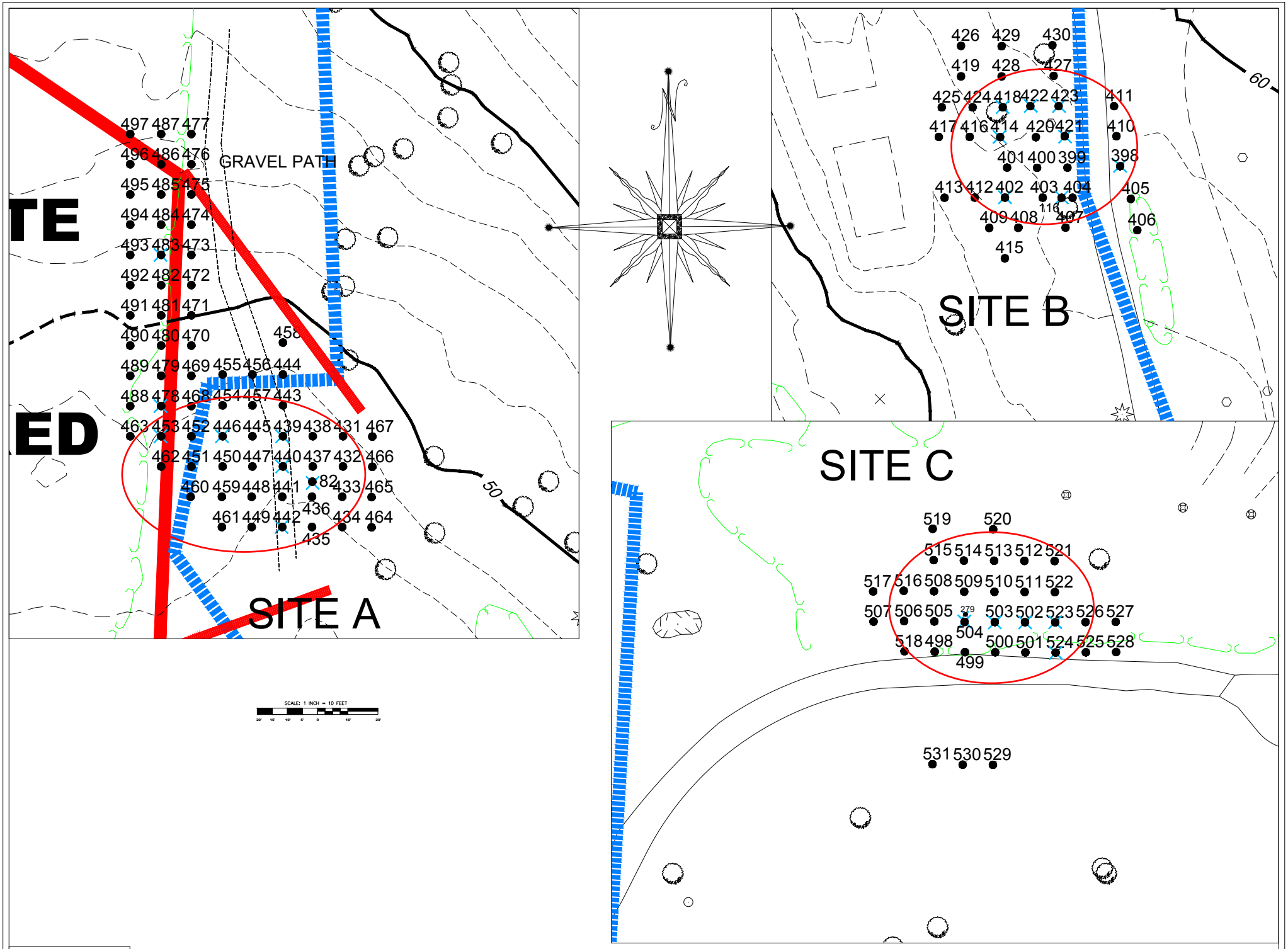
FIGURE 2: Location of Sites A, B, & C

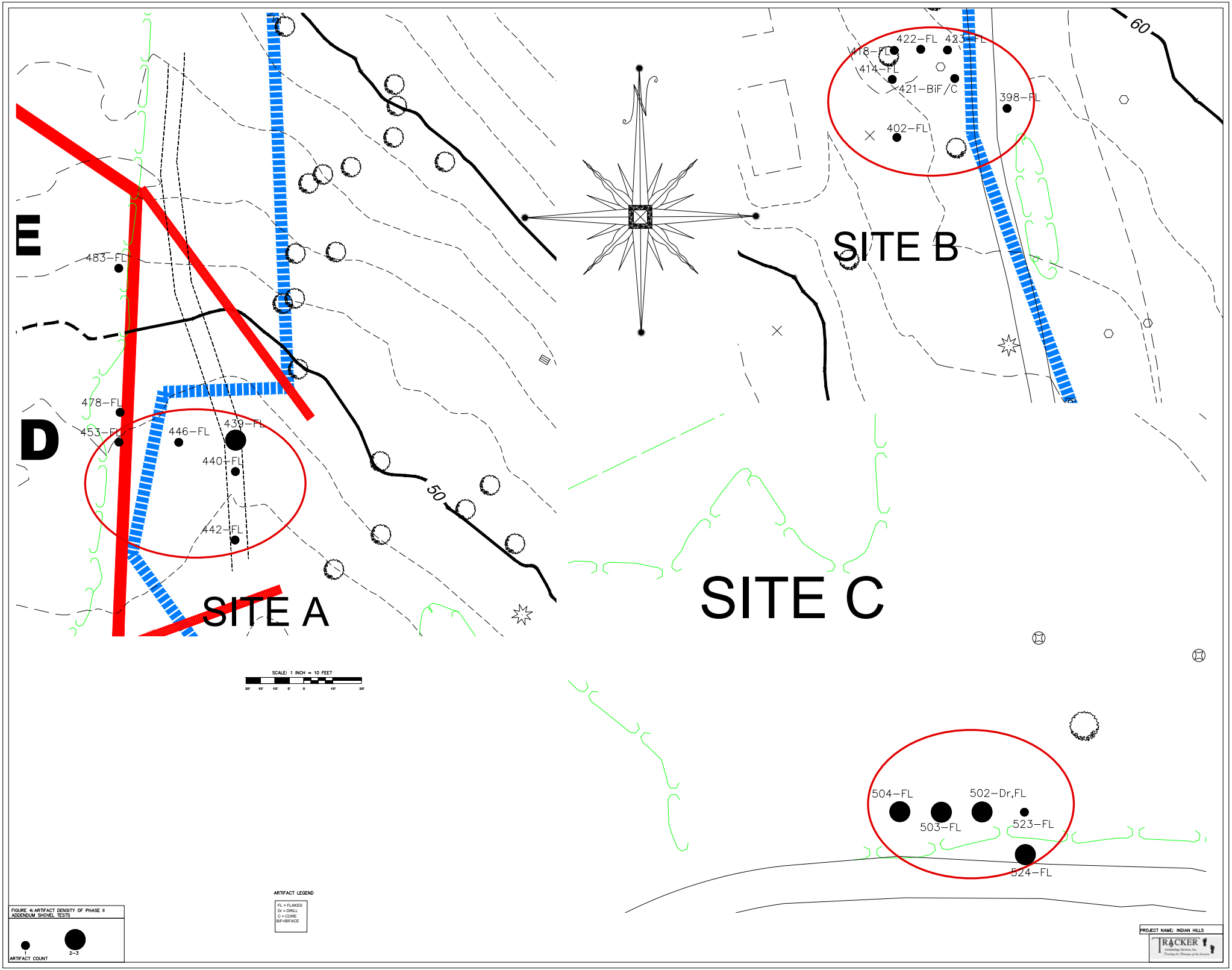
SITE BOUNDARY

PROJECT BOUNDARY(A.P.E.)

PROJECT NAME: INDIAN HILLS

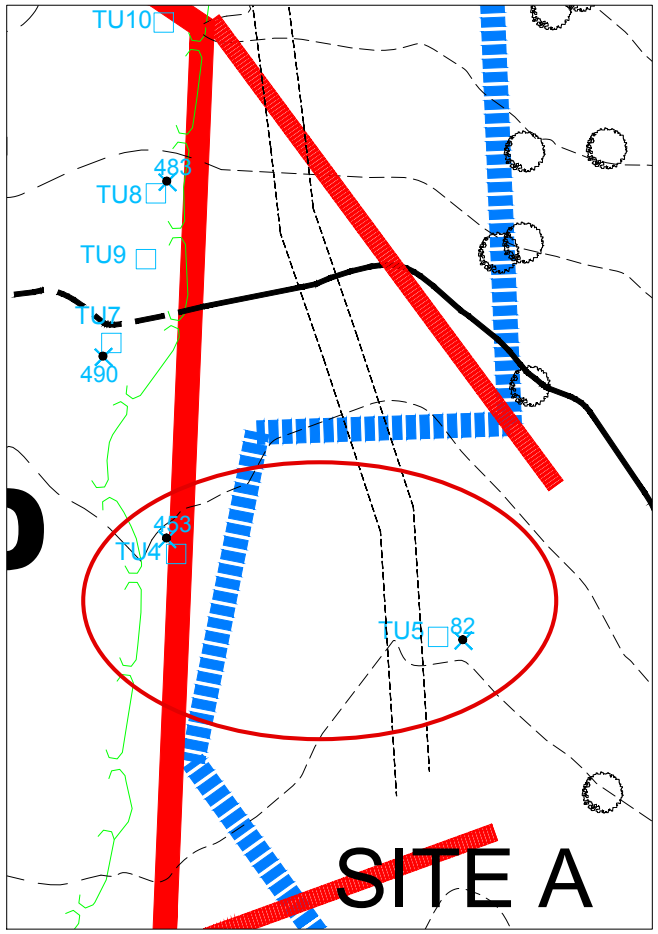
TRACKER Archaeology Services, Inc. *Tracking the Footsteps of the Ancestors*

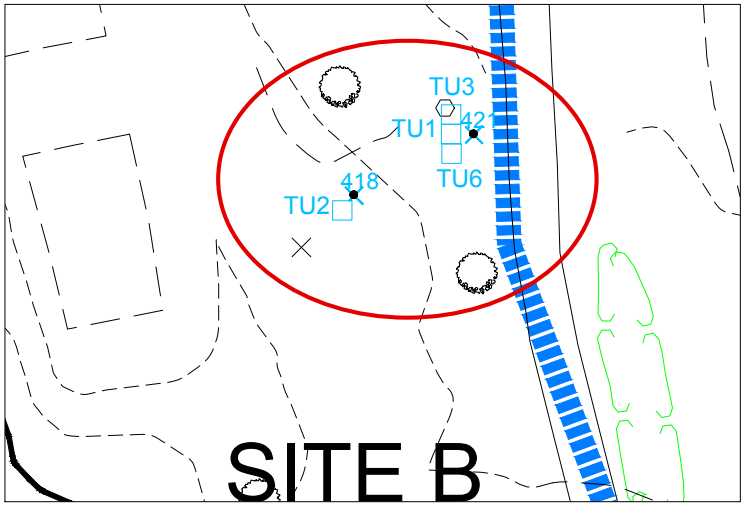

GRAVEL PATH
SITE A
SITE B
SITE C
SCALE: 1 INCH = 10 FEET
FIGURE 3: LOCATION OF PHASE 2 ADDENDUM SHOVEL TESTS
NEGATIVE SHOVEL TEST
POSITIVE SHOVEL TEST w/PREHISTORIC ARTIFACTS
PROJECT BOUNDARY(A.P.E.)
PROJECT NAME: INDIAN HILLS
TRACKER

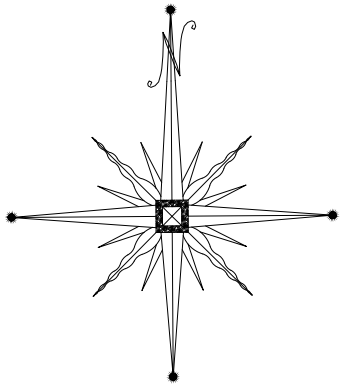

SITE A
SITE B
SITE C
E
D
483–FL
478–FL
453–FL
446–FL
439–FL
440–FL
442–FL
422–FL
423–FL
418–FL
414–FL
421–BiF/C
398–FL
402–FL
504–FL
502–Dr,FL
503–FL
523–FL
524–FL
50
60
SCALE: 1 INCH = 10 FEET
ARTIFACT LEGEND
FL = FLAKES
Dr = DRILL
C = CORE
BiF=BIFACE
FIGURE 4: ARTIFACT DENSITY OF PHASE II ADDENDUM SHOVEL TESTS
1
ARTIFACT COUNT
2–3
PROJECT NAME: INDIAN HILLS
TRACKER

PROJECT NAME: INDIAN HILLS

TRACKER Archaeology Services, Inc.







SCALE: 1 INCH = 10 FEET

20' 15' 10' 5' 0 10' 20'

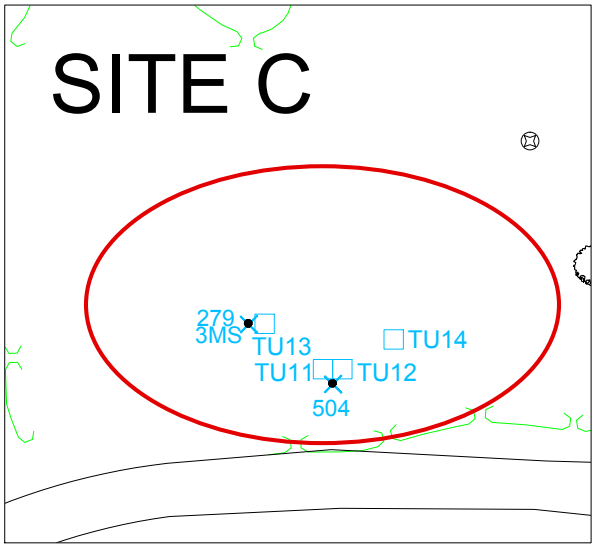


FIGURE 5: LOCATION OF TEST UNITS

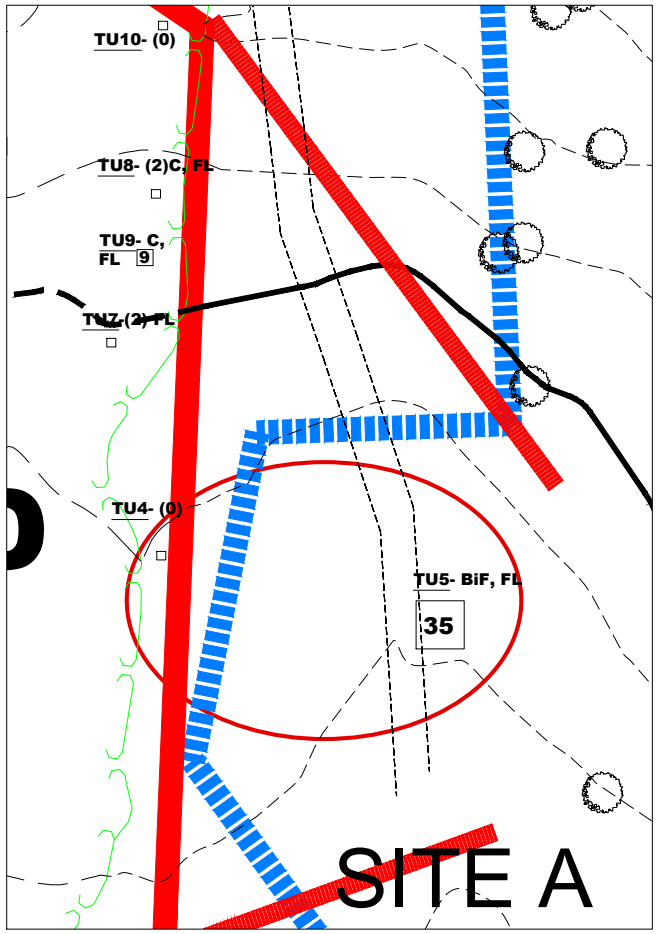
TEST UNIT(TU)

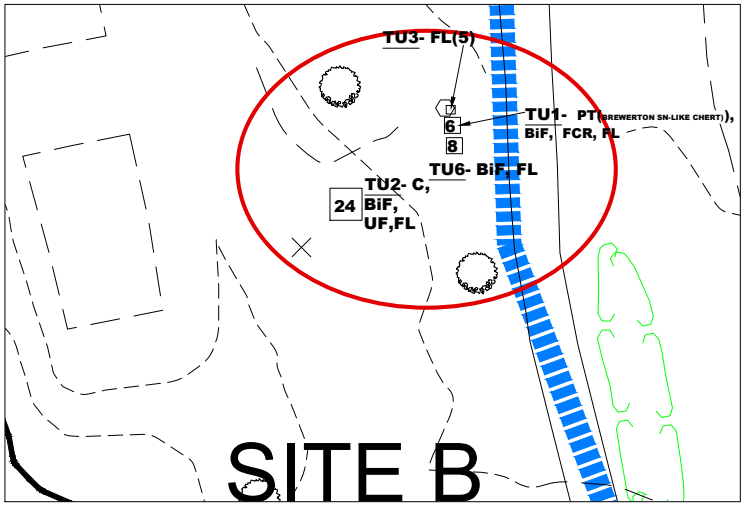
POSITIVE SHOVEL TEST w/PREHISTORIC ARTIFACTS

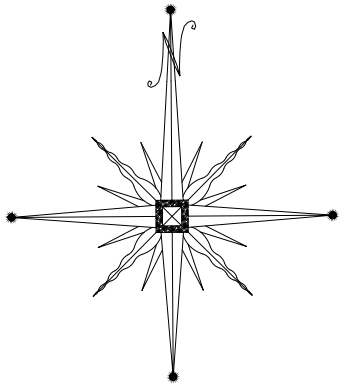
PROJECT BOUNDARY(A.P.E.)

PROJECT NAME: INDIAN HILLS

TRACKER Archaeology Services, Inc.







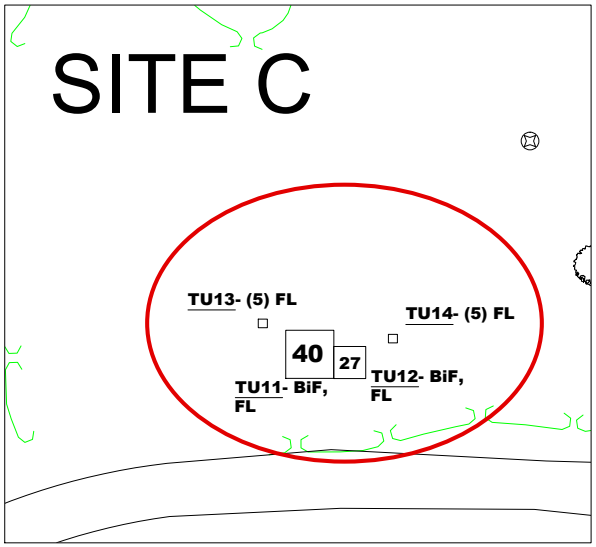
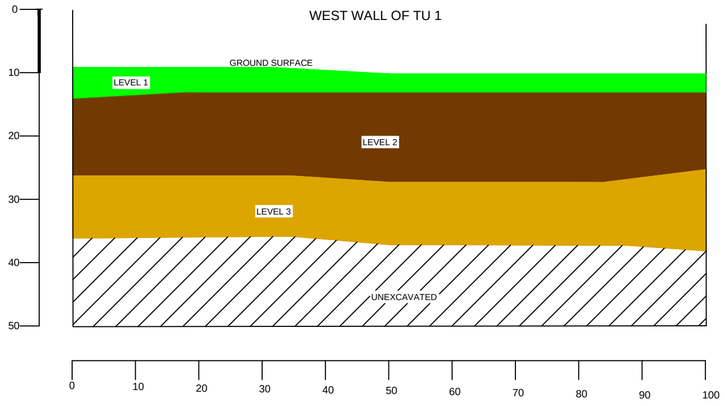
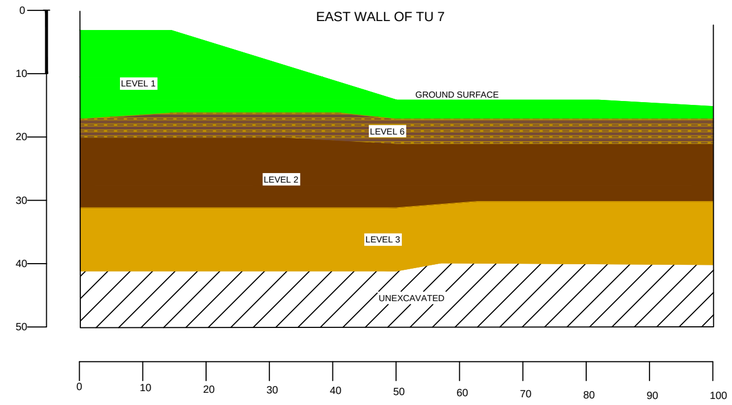
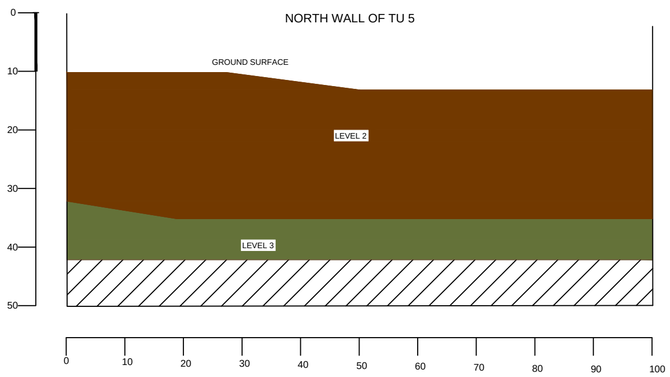


FIGURE 6: ARTIFACT DISTRIBUTION & DENSITY OF TUS

ARTIFACT KEY:
BiF = BIFACE
FL = FLAKE
PT = PROJECTILE POINT
FCR = FIRE-CRACKED ROCK
UF = UTILIZED FLAKE







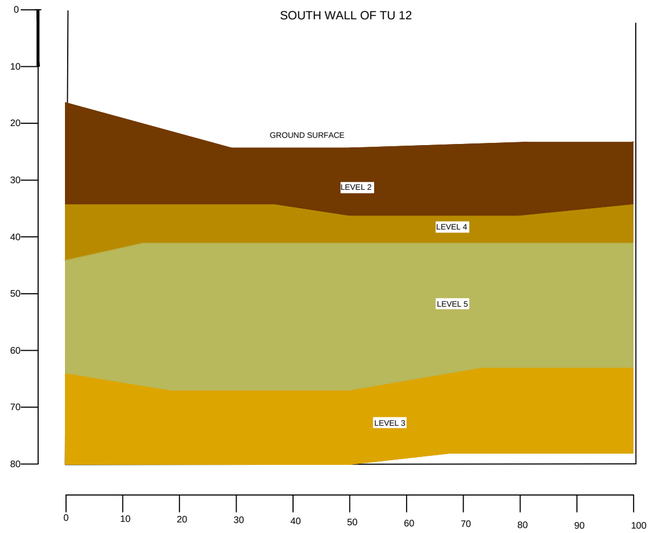


FIGURE 7: Profiles of TUs 1, 5, 7, & 12

PROJECT NAME: INDIAN HILLS

TRACKER
Archaeology Services, Inc.
Tracking the Footsteps of the Ancestors


Photo 1
TU 1
INDIAN HILLS 2
TU 1


Photo 2
TU 2
INDIAN HILLS 2
TU 2


Photo 3
TU 5
INDIAN HILLS 2
TU 5


Photo 4
TU 7
INDIAN HILLS 2
TU 7


Photo 5
TU 12
INDIAN HILLS 2
TU 12


Photo 6
TU 14
INDIAN HILLS 2
TU 14

Photo 7

Top row, left to right: Point, TU1,Lv2, secondary flake/Utilized flake, & Biface, TU2,Lv2 Bottom row, left to right: possible Biface, TU5,Lv2, Biface tip, TU11,Lv2, Biface tip, TU12,Lv2

APPENDIX 2

SHOVEL TESTS

STP	LV	DEPTH(CM)	TEXTURE	COLOR	HOR	COMMENT
Site B:						
398	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-24	LoSa	10YR4/3	A	flake
	3	24-35	LoSa	10YR5/6	B	NCM
399	1	0-4	rootmat,leaves,humus		A/O	NCM
	2	4-19	LoSa	10YR4/3	A	NCM
	3	19-30	LoSa	10YR5/6	B	NCM
400	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-25	LoSa	10YR4/3	A	NCM
	3	25-35	LoSa	10YR5/6	B	NCM
401	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-24	LoSa	10YR4/3	A	NCM
	3	24-34	LoSa	10YR5/6	B	NCM
402	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-27	LoSa	10YR4/3	A	flake
	3	27-37	LoSa	10YR5/6	B	NCM
403	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-25	LoSa	10YR4/3	A	NCM
	3	25-36	LoSa	10YR5/6	B	NCM
404	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-20	LoSa	10YR4/3	A	NCM
	3	20-30	LoSa	10YR5/6	B	NCM
405	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-25	LoSa	10YR4/3	A	NCM
	3	25-35	LoSa	10YR5/6	B	NCM
406	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-25	LoSa	10YR4/3	A	NCM
	3	25-35	LoSa	10YR5/6	B	NCM
407	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-26	LoSa	10YR4/3	A	NCM
	3	26-40	LoSa	10YR5/6	B	NCM
408	1	0-8	rootmat,leaves,humus		A/O	NCM
	2	8-26	LoSa	10YR4/3	A	NCM
	3	26-38	LoSa	10YR5/6	B	NCM
409	1	0-7	rootmat,leaves,humus		A/O	NCM
	2	7-23	LoSa	10YR4/3	A	NCM
	3	23-33	LoSa	10YR5/6	B	NCM

410	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-27	LoSa	10YR4/3	A	NCM
	3	27-35	LoSa	10YR5/6	B	NCM
411	1	0-8	rootmat,leaves,humus		A/O	NCM
	2	8-28	LoSa	10YR4/3	A	NCM
	3	28-40	LoSa	10YR5/6	B	NCM
412	1	0-7	rootmat,leaves,humus		A/O	NCM
	2	7-28	LoSa	10YR4/3	A	NCM
	3	28-38	LoSa	10YR5/6	B	NCM
413	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-25	LoSa	10YR4/3	A	NCM
	3	25-35	LoSa	10YR5/6	B	NCM
414	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-25	LoSa	10YR4/3	A	flake
	3	25-35	LoSa	10YR5/6	B	NCM
415	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-25	LoSa	10YR4/3	A	NCM
	3	25-35	LoSa	10YR5/6	B	NCM
416	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-23	LoSa	10YR4/3	A	NCM
	3	23-35	LoSa	10YR5/6	B	NCM
417	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-26	LoSa	10YR4/3	A	NCM
	3	26-37	LoSa	10YR5/6	B	NCM
418	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-27	LoSa	10YR4/3	A	flake
	3	27-37	LoSa	10YR5/6	B	NCM
419	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-24	LoSa	10YR4/3	A	NCM
	3	24-34	LoSa	10YR5/6	B	NCM
420	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-25	LoSa	10YR4/3	A	NCM
	3	25-35	LoSa	10YR5/6	B	NCM
421	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-22	LoSa	10YR4/3	A	core?
	3	22-32	LoSa	10YR5/6	B	NCM
422	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-26	LoSa	10YR4/3	A	flake
	3	26-37	LoSa	10YR5/6	B	NCM

423	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-27	LoSa	10YR4/3	A	flake
	3	27-40	LoSa	10YR5/6	B	NCM
424	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-25	LoSa	10YR4/3	A	NCM
	3	25-35	LoSa	10YR5/6	B	NCM
425	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-24	LoSa	10YR4/3	A	NCM
	3	36-36	LoSa	10YR5/6	B	NCM
426	1	0-7	rootmat,leaves,humus		A/O	NCM
	2	7-25	LoSa	10YR4/3	A	NCM
	3	25-36	LoSa	10YR5/6	B	NCM
427	1	0-8	rootmat,leaves,humus		A/O	NCM
	2	8-19	LoSa	10YR4/3	A	NCM
	3	19-impeded roots				
428	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-25	LoSa	10YR4/3	A	NCM
	3	25-40	LoSa	10YR5/6	B	NCM
429	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-28	LoSa	10YR4/3	A	NCM
	3	28-40	LoSa	10YR5/6	B	NCM
430	1	0-8	rootmat,leaves,humus		A/O	NCM
	2	8-27	LoSa	10YR4/3	A	NCM
	3	27-37	LoSa	10YR5/6	B	NCM
Site A:						
431	1	0-4	rootmat,leaves,humus		A/O	NCM
	2	4-26	LoSa	10YR4/3	A	NCM
	3	26-36	LoSa	10YR5/6	B	NCM
432	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-26	LoSa	10YR4/3	A	NCM
	3	26-36	LoSa	10YR5/6	B	NCM
433	1	0-4	rootmat,leaves,humus		A/O	NCM
	2	4-25	LoSa	10YR4/3	A	NCM
	3	25-35	LoSa	10YR5/6	B	NCM
434	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-27	LoSa	10YR4/3	A	NCM
	3	27-44	LoSa	10YR5/6	B	NCM
435	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-26	LoSa	10YR4/3	A	NCM
	3	26-38	LoSa	10YR5/6	B	NCM

436	1	0-3	rootmat,leaves,humus			A/O	NCM
	2	3-26	LoSa		10YR4/3	A	NCM
	3	26-40	LoSa		10YR5/6	B	NCM
437	1	0-3	rootmat,leaves,humus			A/O	NCM
	2	3-23	LoSa		10YR4/3	A	NCM
	3	23-34	LoSa		10YR5/6	B	NCM
438	1	0-3	rootmat,leaves,humus			A/O	NCM
	2	3-25	LoSa		10YR4/3	A	NCM
	3	25-40	LoSa		10YR5/6	B	NCM
439	1	0-3	rootmat,leaves,humus			A/O	NCM
	2	3-28	LoSa	pea gravel	10YR4/3	A	flakes
	3	28-42	LoSa		10YR5/6	B	NCM
440	1	0-5	rootmat,leaves,humus			A/O	NCM
	2	5-26	LoSa	pea gravel	10YR4/3	A	flake
	3	26-43	LoSa		10YR5/6	B	NCM
441	1	0-6	rootmat,leaves,humus			A/O	NCM
	2	6-20	LoSa	pea gravel	10YR4/3	A	NCM
	3	20-38	LoSa		10YR5/6	B	NCM
442	1	0-6	rootmat,leaves,humus			A/O	NCM
	2	6-22	LoSa	pea gravel	10YR4/3	A	flake
	3	22-36	LoSa		10YR5/6	B	NCM
443	1	0-8	rootmat,leaves,humus			A/O	NCM
	2	8-23	LoSa	pea gravel	10YR4/3	A	NCM
	3	23-35	LoSa		10YR5/6	B	NCM
444	1	0-7	rootmat,leaves,humus			A/O	NCM
	2	7-23	LoSa		10YR4/3	A	NCM
	3	23-35	LoSa		10YR5/6	B	NCM
445	1	0-8	rootmat,leaves,humus			A/O	NCM
	2	8-26	LoSa	pea gravel	10YR4/3	A	NCM
	3	26-36	LoSa		10YR5/6	B	NCM
446	1	0-8	rootmat,leaves,humus			A/O	NCM
	2	8-25	LoSa	pea gravel	10YR4/3	A	flake?
	3	25-35	LoSa		10YR5/6	B	NCM
447	1	0-6	rootmat,leaves,humus			A/O	NCM
	2	6-28	LoSa	pea gravel	10YR4/3	A	NCM
	3	28-38	LoSa		10YR5/6	B	NCM
448	1	0-8	rootmat,leaves,humus			A/O	NCM
	2	8-28	LoSa	pea gravel	10YR4/3	A	NCM
	3	28-39	LoSa		10YR5/6	B	NCM

449	1	0-4	rootmat,leaves,humus		A/O	NCM
	2	4-25	LoSa	10YR4/3	A	NCM
	3	25-38	LoSa	10YR5/6	B	NCM
450	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-23	LoSa pea gravel	10YR4/3	A	NCM
	3	23-33	LoSa	10YR5/6	B	NCM
451	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-24	LoSa	10YR4/3	A	NCM
	3	24-34	LoSa	10YR5/6	B	NCM
452	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-24	LoSa	10YR4/3	A	NCM
	3	24-34	LoSa	10YR5/6	B	NCM
453	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-19	LoSa	10YR4/3	A	flake
	3	19-29	LoSa	10YR5/6	B	NCM
454	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-25	LoSa	10YR4/3	A	NCM
	3	25-35	LoSa	10YR5/6	B	NCM
455	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-25	LoSa	10YR4/3	A	NCM
	3	25-25	LoSa	10YR5/6	B	NCM
456	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-24	LoSa	10YR4/3	A	NCM
	3	24-40	LoSa	10YR5/6	B	NCM
457	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	7-26	LoSa	10YR4/3	A	NCM
	3	26-28	LoSa	10YR5/6	B	NCM
458	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-25	LoSa	10YR4/3	A	NCM
	3	25-35	LoSa	10YR5/6	B	NCM
459	1	0-4	rootmat,leaves,humus		A/O	NCM
	2	4-25	LoSa	10YR4/3	A	NCM
	3	25-35	LoSa	10YR5/6	B	NCM
460	1	0-8	rootmat,leaves,humus		A/O	NCM
	2	8-25	LoSa	10YR4/3	A	NCM
	3	25-35	LoSa	10YR5/6	B	NCM
461	1	0-7	rootmat,leaves,humus		A/O	NCM
	2	7-25	LoSa	10YR4/3	A	NCM
	3	25-35	LoSa	10YR5/6	B	NCM

462	1	0-8	rootmat,leaves,humus		A/O	NCM
	2	8-23	LoSa	10YR4/3	A	NCM
	3	23-34	LoSa	10YR5/6	B	NCM
463	1	0-7	rootmat,leaves,humus		A/O	NCM
	2	7-24	LoSa	10YR4/3	A	NCM
	3	24-35	LoSa	10YR5/6	B	NCM
464	1	0-8	rootmat,leaves,humus		A/O	NCM
	2	8-25	LoSa	10YR4/3	A	NCM
	3	25-35	LoSa	10YR5/6	B	NCM
465	1	0-8	rootmat,leaves,humus		A/O	NCM
	2	8-27	LoSa	10YR4/3	A	NCM
	3	27-37	LoSa	10YR5/6	B	NCM
466	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-23	LoSa	10YR4/3	A	NCM
	3	23-33	LoSa	10YR5/6	B	NCM
467	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-24	LoSa	10YR4/3	A	NCM
	3	24-35	LoSa	10YR5/6	B	NCM
468	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-23	LoSa	10YR4/3	A	NCM
	3	23-33	LoSa	10YR5/6	B	NCM
469	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-24	LoSa	10YR4/3	A	NCM
	3	24-34	LoSa	10YR5/6	B	NCM
470	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-25	LoSa	10YR4/3	A	NCM
	3	25-36	LoSa	10YR5/6	B	NCM
471	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-25	LoSa	10YR4/3	A	NCM
	3	25-45	LoSa	10YR5/6	B	NCM
472	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-28	LoSa	10YR4/3	A	NCM
	3	28-45	LoSa	10YR5/6	B	NCM
473	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-26	LoSa	10YR4/3	A	NCM
	3	26-36	LoSa	10YR5/6	B	NCM
474	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-26	LoSa	10YR4/3	A	NCM
	3	26-39	LoSa	10YR5/6	B	NCM

475	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-23	LoSa	10YR4/3	A	NCM
	3	23-33	LoSa	10YR5/6	B	NCM
476	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-22	LoSa	10YR4/3	A	flake
	3	22-35	LoSa	10YR5/6	B	NCM
477	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-19	LoSa	10YR4/3	A	NCM
	3	19-32	LoSa	10YR5/6	B	NCM
478	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-25	LoSa	10YR4/3	A	flake
	3	25-35	LoSa	10YR5/6	B	NCM
479	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-24	LoSa	10YR4/3	A	NCM
	3	24-34	LoSa	10YR5/6	B	NCM
480	1	0-6	rootmat,leaves,humus		A/O	NCM
	2	6-25	LoSa	10YR4/3	A	NCM
	3	25-35	LoSa	10YR5/6	B	NCM
481	1	0-7	rootmat,leaves,humus		A/O	NCM
	2	7-23	LoSa	10YR4/3	A	NCM
	3	23-33	LoSa	10YR5/6	B	NCM
482	1	0-7	rootmat,leaves,humus		A/O	NCM
	2	7-23	LoSa	10YR4/3	A	NCM
	3	23-33	LoSa	10YR5/6	B	NCM
483	1	0-7	rootmat,leaves,humus		A/O	NCM
	2	7-23	LoSa	10YR4/3	A	flake
	3	23-36	LoSa	10YR5/6	B	NCM
484	1	0-7	rootmat,leaves,humus		A/O	NCM
	2	7-22	LoSa	10YR4/3	A	NCM
	3	22-35	LoSa	10YR5/6	B	NCM
485	1	0-7	rootmat,leaves,humus		A/O	NCM
	2	7-26	LoSa	10YR4/3	A	NCM
	3	26-36	LoSa	10YR5/6	B	NCM
486	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-24	LoSa	10YR4/3	A	NCM
	3	24-35	LoSa	10YR5/6	B	NCM
487	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-23	LoSa	10YR4/3	A	NCM
	3	23-35	LoSa	10YR5/6	B	NCM

488	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-20	LoSa	10YR4/3	A	NCM
	3	20-30	LoSa	10YR5/6	B	NCM
489	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-26	LoSa	10YR4/3	A	NCM
	3	26-36	LoSa	10YR5/6	B	NCM
490	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-20	LoSa	10YR4/3	A	NCM
	3	20-30	LoSa	10YR5/6	B	NCM
491	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-21	LoSa	10YR4/3	A	NCM
	3	21-31	LoSa	10YR5/6	B	NCM
492	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-21	LoSa	10YR4/3	A	NCM
	3	21-32	LoSa	10YR5/6	B	NCM
493	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-20	LoSa	10YR4/3	A	NCM
	3	20-35	LoSa	10YR5/6	B	NCM
494	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-21	LoSa	10YR4/3	A	NCM
	3	22-33	LoSa	10YR5/6	B	NCM
495	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-23	LoSa	10YR4/3	A	NCM
	3	23-33	LoSa	10YR5/6	B	NCM
496	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-23	LoSa	10YR4/3	A	NCM
	3	23-35	LoSa	10YR5/6	B	NCM
497	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-20	LoSa	10YR4/3	A	NCM
	3	20-33	LoSa	10YR5/6	B	NCM
Site C:						
498	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-20	LoSa	10YR4/3	A	NCM
	3	20-30	LoSa	10YR5/6	B	NCM
499	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-15	LoSa	10YR4/3	A	NCM
	3	15-25	LoSa	10YR5/6	B	NCM
500	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-20	LoSa	10YR4/3	A	NCM
	3	20-30	LoSa	10YR5/6	B	NCM

501	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-21	LoSa	10YR4/3	A	NCM
	3	21-32	LoSa	10YR5/6	B	NCM
502	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-24	LoSa	10YR4/3	A	flakes
	3	24-38	LoSa	10YR5/6	B	NCM
503	1	0-4	rootmat,leaves,humus		A/O	NCM
	2	4-23	LoSa	10YR4/3	A	flakes
	3	23-34	LoSa	10YR5/6	B	NCM
504	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-25	LoSa	10YR4/3	A	flakes
	3	25-38	LoSa	10YR5/6	B	NCM
505	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-19	LoSa	10YR4/3	A	NCM
	3	19-39	LoSa	10YR5/6	B	NCM
506	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-24	LoSa	10YR4/3	A	flakes
	3	24-38	LoSa	10YR5/6	B	NCM
507	1	0-5	rootmat,leaves,humus		A/O	NCM
	2	5-27	LoSa	10YR4/3	A	NCM
	3	27-39	LoSa	10YR5/6	B	NCM
508	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-24	LoSa	10YR4/3	A	NCM
	3	24-38	LoSa	10YR5/6	B	NCM
509	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-18	LoSa	10YR4/3	A	NCM
	3	18-39	LoSa	10YR5/6	B	NCM
510	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-25	LoSa	10YR4/3	A	NCM
	3	25-35	LoSa	10YR5/6	B	NCM
511	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-25	LoSa	10YR4/3	A	NCM
	3	25-35	LoSa	10YR5/6	B	NCM
512	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-26	LoSa	10YR4/3	A	NCM
	3	26-37	LoSa	10YR5/6	B	NCM
513	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-24	LoSa	10YR4/3	A	NCM
	3	24-38	LoSa	10YR5/6	B	NCM

514	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-23	LoSa	10YR4/3	A	NCM
	3	23-33	LoSa	10YR5/6	B	NCM
515	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-26	LoSa	10YR4/3	A	NCM
	3	26-37	LoSa	10YR5/6	B	NCM
516	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-23	LoSa	10YR4/3	A	NCM
	3	23-35	LoSa	10YR5/6	B	NCM
517	1	0-4	rootmat,leaves,humus		A/O	NCM
	2	4-22	LoSa	10YR4/3	A	NCM
	3	22-33	LoSa	10YR5/6	B	NCM
518	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-25	LoSa	10YR4/3	A	NCM
	3	25-40	LoSa	10YR5/6	B	NCM
519	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-24	LoSa	10YR4/3	A	NCM
	3	24-40	ClLo	10YR5/6	B	NCM
520	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-20	LoSa	10YR4/3	A	NCM
	3	20-30	LoSa	10YR5/6	B	NCM
521	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-21	LoSa	10YR4/3	A	NCM
	3	21-31	LoSa	10YR5/6	B	NCM
522	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-25	LoSa	10YR4/3	A	NCM
	3	25-38	LoSa	10YR5/6	B	NCM
523	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	5-25	LoSa	10YR4/3	A	flake
	3	25-37	LoSa	10YR5/6	B	NCM
524	1	0-2	rootmat,leaves,humus		A/O	NCM
	2	2-27	LoSa	10YR4/3	A	flakes
	3	27-40	LoSa	10YR5/6	B	NCM
525	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-26	LoSa	10YR4/3	A	NCM
	3	26-36	LoSa	10YR5/6	B	NCM
526	1	0-4	rootmat,leaves,humus		A/O	NCM
	2	4-27	LoSa	10YR4/3	A	NCM
	3	27-38	LoSa	10YR5/6	B	NCM

527	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-25	LoSa	10YR4/3	A	NCM
	3	25-35	LoSa	10YR5/6	B	NCM
528	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-27	LoSa	10YR4/3	A	NCM
	3	27-40	LoSa	10YR5/6	B	NCM
529	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	5-23	LoSa	10YR4/3	A	NCM
	3	23-36	LoSa	10YR5/6	B	NCM
530	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-25	LoSa	10YR4/3	A	NCM
	3	25-40	LoSa	10YR5/6	B	NCM
531	1	0-3	rootmat,leaves,humus		A/O	NCM
	2	3-26	LoSa	10YR4/3	A	NCM
	3	26-41	LoSa	10YR5/6	B	NCM

T EST UNITS

TU	LV	NE	SE	CENT	NW	SW	TEXTURE	COLOR	HOR
1	1	9-12	11-14	10-13	10-13	9-14	rootmat,humus,leaves		A/O
	2	12-29	14-27	13-27	13-25	14-26	Lo	10YR3/3	A
	3	29-39	27-38	27-37	25-38	26-36	Lo	10YR5/6	B
2	1	11-14	16-20	18-17	18-21	19-25	rootmat,humus,leaves		A/O
	2	14-21	20-25	17-25	21-27	25-30	Lo	10YR4/3	A
	3	21-31	25-35	25-35	27-37	30-40	Lo	10YR5/6	B
3	1	9-12	10-15	10-12	13-15	11-14	rootmat,humus,leaves		A/O
	2	12-21	15-24	12-25	15-25	14-26	Lo	10YR3/3	A
	3	21-31	24-34	25-35	25-35	26-36	Lo	10YR6/4	B
4	2	9-25	13-28	12-27	11-27	12-27, pea gravel	Lo	10YR4/3	A
	3	25-35	28-38	27-37	27-37	27-38	Lo	10YR5/6	B
5	2	10-32	12-36	13-35	13-35	12-35, pea gravel	Lo	10YR4/3	A
	3	32-42	36-46	35-45	35-45	35-45	Cl	gley4//1	B
Note: probed subsoil to a foot with no change; glass frag in topsoil disc.									
6	2	6-28	8-28	8-33	9-32	8-31 pea gravel	Lo	10YR4/3	A
	3	28-38	28-38	33-43	32-43	31-42	Lo	10YR5/6	B
7	1	3-17	15-17	14-16	10-15	10-16	rootmat,humus,leaves		A/O
	6	17-20	17-21	16-21	15-20	16-21	Lo	clay lens	A?
	2	20-31	21-30	21-30	20-33	21-33	Lo	10YR4/3	A
	3	31-41	30-40	30-40	33-44	33-44		10YR5/6	B
Note: whiteware, charcoal disc.									
8	1	11-13	13-19	12-14	8-12	8-14	rootmat,humus,leaves		A/O
	2	13-47	19-47	14-48	12-50	14-50	Lo	10YR4/3	A
	3	47-62	47-62	48-63	50-64	50-64	Lo	10YR5/6	B
Note: blue transferprint disc.									
9	1	13-17	12-19	13-20	8-14	10-19	rootmat,humus,leaves		A/O
	2	17-41	19-43	20-41	14-42	19-41	Lo	10YR4/3	A
	3	41-57	43-59	41-56	42-57	41-58	Lo	10YR5/6	B
Note: blue transferprint disc.									
10	1	10-16	15-21	15-19	12-17	15-21	rootmat,humus,leaves		A/O
	2	16-41	21-45	19-41	17-41	21-44	Lo	10YR4/3	A
	3	41-51	45-55	41-53	41-51	44-54	Lo	10YR5/6	B
11	2	26-42	11-28	19-35	28-42	15-34 heavy gravel	Lo	10YR3/3	A
	4	42-53	28-50	35-51	42-51	34-46	Lo	10YR5/6	overburden
	5	53-75	50-71	51-73	51-73	46-80	Lo & grey Sa	10YR3/2	fill
	3	75-94	71-89	73-89	73-89	80-90	Lo	10YR5/6	B

Note: iron handle, brick, coal disc.

12	2	29-42	15-33	23-35	32-69	22-33	gravel	Lo	10YR3/3	A
	4	42-48	33-40	35-40	69-69	33-43		Lo	10YR5/6	overburden
	5	48-67	40-62	40-66	69-69	43-63	Lo & grey Sa		10YR3/2	fill
	3	67-79	62-78	66-80	69-80	63-74		Lo	10YR5/5	B
13	2	21-38	11-36	18-35	19-38	18-32	gravel	Lo	10YR3/3	A
	3	38-53	36-50	35-50	38-51	32-50		Lo	10YR5/6	B
14	2	23-37	11-36	15-37	17-37	10-36		Lo	10YR3/3	A
	3	37-47	36-48	37-47	37-47	36-46		Lo	10YR5/6	B

APPENDIX 3

INDIAN HILLS SITE ADDENDUM PHASE II

CAT	SF	ST	TU	LV	ARB	FT	GP	CL	MAT	MOR	DESCRIPTION	CT	WT
8		439			A		10	3	54	29	possible tertiary, white	2	0.10
9		440			A		10	3	53	29	tertiary, clear & white	1	2.30
10		442			A		10	3	53	27	possible primary, clear	1	18.50
11		446			A		10	3	53	29	poss. tertiary, white	1	3.10
12		453			A		10	3	53	28	poss. secondary, clear	1	16.00
13		478			A		10	3	53	29	poss. tertiary, clear	1	0.10
14		483			A		10	3	53	27	primary, clear & white	1	1.70
1		398			B		10	3	53	29	tertiary, white	1	0.30
2		402			B		10	3	53	28	secondary, clear	1	8.00
3		414			B		10	3	53	28	secondary, clear	1	0.30
4		418			B		10	3	53	29	tertiary, white	1	0.10
5		421			B		10	7	53	81	Core/Biface, marginal white	1	12.50
6		422			B		10	3	53	29	tertiary, clear & white	1	0.20
7		423			B		10	3	54	29	tertiary, grey	1	3.30
15		502			C		10	3	53	29	tertiary, white	1	4.50
16		502			C		10	6	53	52	Drill bit, white	1	0.90
17		503			C		10	3	54	27	poss. primary, white	2	8.70
18		503			C		10	3	53	28	secondary, clear & grey	1	7.10
19		504			C		10	3	53	27	poss. primary, clear & white	1	5.50
20		504			C		10	3	53	29	tertiary, white	1	0.40
21		523			C		10	3	53	27	poss. primary, white	1	7.60
22		524			C		10	3	53	28	secondary, white	1	8.10
23		524			C		10	3	53	29	poss. tertiary, white	1	1.80
24			1	2	B		10	9	54		FCR	1	24.60
25			1	2	B		10	7	53	81	Biface tip, white	1	1.40
26			1	2	B		10	3	53	29	tertiary, white banded	3	7.10
27			1	2	B		10	1	52	1	Brewerton SN-like Point, Onondaga, ground base, thin cross section, 3200-2500B.C.	1	7.20
28			2	2	B		10	3	53	30	Core, split cobble, white	1	63.00

INDIAN HILLS SITE ADDENDUM PHASE II

CAT	SF	ST	TU	LV	ARB	FT	GP	CL	MAT	MOR	DESCRIPTION	CT	WT
29			2	2	B		10	7	54	75	Utilized Flake/secondary, grey	1	13.90
30			2	2	B		10	3	53	27	primary, clear	1	6.40
31			2	2	B		10	7	54	81	triangular Biface, white	1	8.60
32			2	2	B		10	3	54	29	tertiary	18	16.80
33			2	2	B		10	3	54	27	primary, white	1	4.40
34			2	2	B		10	3	54	29	tertiary, white	1	2.00
35			3	2	B		10	3	53	29	tertiary, white & grey	4	3.50
36			3	2	B		10	3	53	27	primary, clear	1	5.80
37			5	2	A		10	3	54	29	tertiary	3	7.00
38			5	2	A		10	7	53	81	poss. Biface, grey	1	5.50
39			5	2	A		10	3	53	29	tertiary, grey	2	9.60
40			5	2	A		10	3	54	27	primary, white	4	15.10
41			5	2	A		10	3	53	28	secondary, grey	2	16.80
42			5	2	A		10	3	54	29	tertiary	23	7.80
43			6	2	B		10	3	53	29	tertiary, white	2	4.70
44			6	2	B		10	7	53	81	poss. Biface, white	1	11.40
45			6	2	B		10	3	53	28	secondary, white	1	1.70
46			6	2	B		10	3	53	27	primary, white	4	16.00
47			7	2	B		10	3	53	29	tertiary, white	1	0.50
48			7	2	B		10	3	53	27	primary, white	1	6.20
49			8	2	B		10	3	54	30	cobble Core, white	1	162.70
50			8	2	B		10	3	53	29	tertiary, clear & white	1	0.70
51			9	2	B		10	3	54	30	cobble Core, white	1	130.40
52			9	2	B		10	3	53	27	primary, clear & white	1	32.90
53			9	2	B		10	3	53	28	secondary, clear & white	1	2.30
54			9	2	B		10	3	53	29	tertiary, clear & white	6	4.10
55			11	2	C		10	3	53	29	poss. tertiary, clear	6	8.30
56			11	2	C		10	3	53	29	poss. tertiary, grey & white	10	45.10
57			11	2	C		10	3	53	29	poss. tertiary, white	6	2.80

INDIAN HILLS SITE ADDENDUM PHASE II

CAT	SF	ST	TU	LV	ARB	FT	GP	CL	MAT	MOR	DESCRIPTION	CT	WT
58			11	2	C		10	3	53	29	poss. tertiary, white	6	9.50
59			11	2	C		10	7	53	81	Biface, grey & white	1	5.40
60			11	2	C		10	3	53	29	tertiary, white	11	23.30
61			12	2	C		10	3	53	27	primary, white & grey	20	146.90
62			12	2	C		10	3	53	29	tertiary, white & grey	6	23.60
63			12	2	C		10	7	53	81	poss. Biface, white & clear	1	2.80
64			13	2	C		10	3	53	29	tertiary, white	4	13.10
65			13	2	C		10	3	53	27	primary, white	1	7.80
66			14	2	C		10	3	53	27	primary, white & grey	3	39.20
67			14	2	C		10	3	53	28	secondary, white & grey	2	11.90