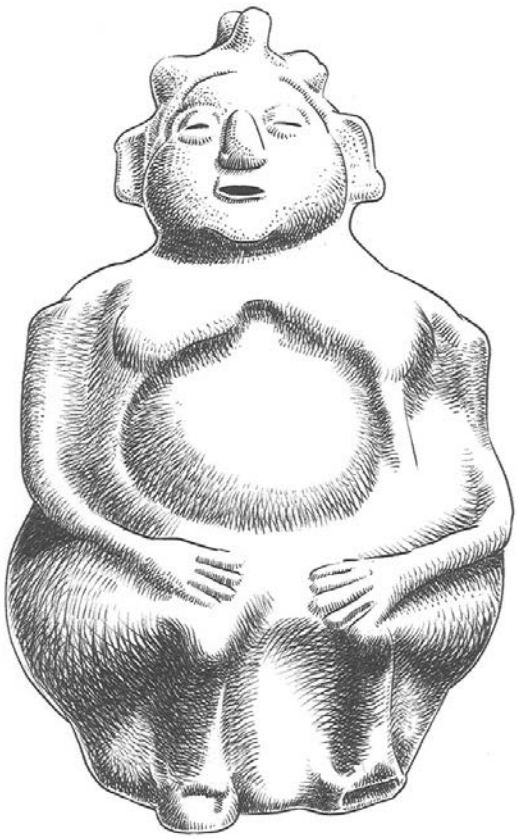
THE BRENTWOOD LIBRARY SITE:
A Mississippian Town on the Little Harpeth River, Williamson County, Tennessee

Michael C. Moore



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF ARCHAEOLOGY
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THE BRENTWOOD LIBRARY SITE:
A MISSISSIPPIAN TOWN ON THE LITTLE HARPETH RIVER, WILLIAMSON COUNTY, TENNESSEE

Michael C. Moore

with contributions by:

Andrea Bishop
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Kevin E. Smith

Tennessee Department of Environment and Conservation
Division of Archaeology
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We would also like to take this opportunity to thank the City of Brentwood Police Department for their watchful eye throughout the project. Incidents of trespassing and looting were kept to a minimum due to their vigilance in patrolling the site area, especially on nights and weekends.

In addition, the unsung (yet vital) task of mechanical excavation and backdirt removal was given to Public Works personnel with the City of Brentwood. The Division is indebted to Chip Brown, Bud Griffin, Danny Lampley, Keith Mangrum (Water), Ray Mize, and Stephen Tomlinson for their willingness to comply with our unusual method of digging dirt.

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The Division of Archaeology was present over the course of the 40Wm210 project to map and (when time permitted) excavate non-mortuary resources exposed across the site area. As with other projects of this magnitude, Director Nick Fielder authorized the Division resources necessary to complete the job at hand. Michael Moore and Suzanne Hoyal performed the day-to-day mapping and excavation duties, with valuable support from John Broster. Jennifer Barnett and Emanuel Breitburg also assisted with the project investigations. Tara Kuss provided helpful assistance in the laboratory.

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Artifactual material recovered from the Brentwood Library excavations were examined by Division and other state personnel. Michael Moore (Division of Archaeology) examined the ceramic and lithic assemblages. Kevin Smith, Professor of Anthropology at Middle Tennessee State University, was consulted on several ceramic specimens. Suzanne Hoyal (Division of Archaeology) analyzed the textiles impressed on ceramic pans. Michael Hoyal, Assistant State Geologist with the Tennessee Division of Geology, contributed his expertise on a number of stone resources. Emanuel Breitburg (Division of Archaeology) performed an analysis of the human skeletal remains. Judith Sichler with the University of Tennessee, Archaeological Research Laboratory identified the faunal remains. Gerald Kline and Gary Barker with the Tennessee Department of Transportation, Office of Environmental Planning and Permits provided generous assistance toward completion of the faunal analysis. Andrea Bishop with the Tennessee Division of Natural Heritage examined the charred botanical remains.

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Michael Moore drafted most of the maps and figures used in this report. Drew White of Nashville's daily newspaper *The Tennessean* again donated his talents to illustrate the Burial 45 hooded effigy bottle presented on the front cover. Joe Benthall provided the excellent illustrations for Figures 85 and 88.

The Brentwood Library, Middle Cumberland Archaeological Society, and Cumberland Research Group contributed funds to help offset the costs of printing this report. Their generosity during this time of uncertain budgets and cutbacks is most appreciated.

And finally, the Division of Archaeology would like to thank Mayor Dunn, City Manager Michael Walker, and (current) Brentwood Library Director Chuck Sherrill for their patience during the analysis phase of this project. On their behalf, this report is dedicated to the past, present, and future citizens of Brentwood.

INTRODUCTION

Michael C. Moore

Over the course of each month the Tennessee Division of Archaeology receives phone calls from individuals concerned about the destruction of “Indian burials” by bulldozing or other construction-related activities. Upon investigation, many of these calls turn out to be false alarms raised by citizens fighting unpopular developments in their neighborhood. Still others comprise cases of mistaken identity where the bones turn out to be natural objects such as limestone or wood.

A small percentage of these phone calls, however, instantly change our understanding of the prehistoric landscape. Such was the case on the afternoon of July 29, 1997 when the head librarian for the City of Brentwood called to report that human graves might have been disturbed by on-going construction of the new Brentwood Library in Williamson County. Division assistance was requested to assess this possibility. Division personnel responded to this call and observed several intact stone-box burials inside the active construction zone. At that time, the City of Brentwood was asked to cease all grading activity at once. This work stoppage was necessary to prevent further damage to intact human remains, and also allow the Division an opportunity to assess the nature of the site. Over the next few days Division personnel conducted a complete reconnaissance of the exposed ground surface along with limited test excavations (Figure 1). The investigations identified intact stone-box graves, probable domestic structures, refuse-filled pits, and (at least two) palisade lines. These results confirmed that the City of Brentwood had begun erecting their new library on top of a substantial Mississippian period town.

Given this discovery, one might wonder how did a Mississippian period site of this magnitude remain hidden from the professional archaeological community? That certainly was the question asked at the conclusion of the Division assessment. Unfortunately, no satisfactory answers were forthcoming. The Division of Archaeology site files contained no clues for this Mississippian occupation. Recent work by TDOT consultants on right-of-way property adjacent to the site area failed to uncover evidence of this occupation (Stallings et al. 1999). Classic antiquarian volumes such as Haywood (1823), Jones (1876), and Thruston (1897) contained no references to any mound center or village at this location. Even experienced avocational archaeologists, when asked about this location, stated they were unaware of such a significant site.

The reason for this concealment was certainly not one of area isolation, as believed to be the case for other sites within the study area (Moore and Smith 2001). Archaeological explorations of Mississippian sites in the Brentwood vicinity had begun by the late 1860s (Jones 1876). The Arnold site (40Wm5), located on the Little Harpeth River just downstream from the Brentwood Library, is but one example of this early work. Edwin Curtiss excavated the Emily Hayes Farm (Arnold) in 1879 as part of an aggressive exploration campaign sponsored by the Peabody Museum at Harvard University (Moore and Smith 2009). About 90 years later, a local avocational group from Nashville conducted additional (albeit limited) excavations at 40Wm5 (Ferguson 1972). Regrettably, these more recent explorations were performed during on-going subdivision construction.

Figure 1. Initial assessment of site area by the Division of Archaeology, late July 1997, looking northeast.

Other important Mississippian occupations near the Brentwood Library that were dug by antiquarian archaeologists include the Fewkes (40Wm1) and Gordontown (40Dv6) sites. William E. Myer excavated both of these sites for the Smithsonian Institution in 1920 (Myer 1928). Unknown to Myer (or anyone else for that matter) was that Edwin Curtiss had previously dug at T. F. Wilkinson's Farm (Gordontown) in September 1877 as part of the Peabody Museum-sponsored explorations of middle Tennessee (Moore 2004; Moore and Breitburg 1998).

It was with stunning irony, then, to learn that the site under the proposed Brentwood Library was also the subject of an archaeological exploration sponsored by the Peabody Museum. This particular event was but one of many details brought to light in the plethora of field notes, letters, maps, and artifacts reviewed during recent research trips to the Peabody Museum and Harvard University Archives (Moore and Smith 2009). As it turns out, Frederic Ward Putnam (Curator of the Peabody Museum at Harvard University) excavated the Jarman Farm (Brentwood Library site) between late May and early June 1882. This work comprised the end result of a series of communications initiated in December 1881 between Putnam and the landowner, Dr. W. H. Jarman.

> I was able to take the field in person, and under my immediate direction explorations have been made of…an ancient cemetery in Brentwood, Tenn…(Putnam 1883a:159)
>
> …on the rising ground upon which stands the house of Dr. W H Jarman, are the remains of what was formerly an extensive cemetery, covering

> several acres…In the immediate vicinity of Dr. Jarman's house, I opened eighty graves which had not been disturbed (Putnam 1883a:163)

Modern archaeologists knew the Jarman Farm site as a Mississippian village somewhere in the vicinity of Brentwood, as its precise location never had been identified (Putnam 1883a). The discovery of a Mississippian town during new library construction kindled the possibility that the mysterious Jarman Farm site had been found. Deed research subsequently established that Dr. William H. Jarman owned the Brentwood Library property in 1882. This confirmation, in combination with the site records from Harvard, provided unequivocal proof that the Brentwood Library site location was in fact the same Jarman Farm site explored by F. W. Putnam in 1882.

Unearthing this Mississippian town also clarified the uncertainty surrounding the enigmatic "Brentwood site" as discussed by Putnam in the premier (of the time) scientific journals *Science* and the *Kansas City Review of Science*. Two articles published in 1883 featured the results of Putnam's work at a "stone grave" site on the Little Harpeth River in Brentwood, Tennessee (Putnam 1883b, 1883c). The location information presented in these works had never meshed well with previously recorded Mississippian sites on the Little Harpeth River (such as Arnold or Fewkes).

> Brentwood is situated on the Little Harpeth River, fifteen miles from Nashville. The central portion of the farm is a natural elevation surrounded by low land running off to the Little Harpeth. Two very cold springs rise on the side of the hill. (Putnam 1883b:526)

Researchers wondered if Putnam had named the Little Harpeth River in error, especially since the narrative could be applied to several known locales in the Brentwood area immediately adjacent to the Little Harpeth River (including Gordontown). However, the terrain surrounding the newly discovered Brentwood Library site perfectly matched Putnam's imagery of the "Brentwood site" setting.

As we now know, Putnam published (at least) two presentations of his work at the Jarman Farm. The *Science* article, titled "Stone Graves of the Cumberland Valley" and presented under the general heading of Public and Private Institutions, probably derived from his Peabody Museum lecture series on American archaeology.

> In what was formerly an extensive cemetery covering several acres, at Brentwood, Tenn., eighty graves which had not been disturbed were opened during explorations the past summer. These graves were made by placing slabs of stone edgewise, forming the sides and ends of the graves; and on these, other flat stones were placed after the body was deposited. The bottoms of these cists were sometimes lined with small stones, but oftener with large potsherds. In some instances the lining was probably of bark. In several of these graves, two or three, and even, in one instance, five bodies were buried. In two graves, besides the skeleton of the person for whom each grave was made, one or two bones were found belonging to a second individual, in such positions as showed that they had been carefully placed in the grave. In one grave containing five skeletons, two of the three adult crania had persistent frontal sutures; and these were the only crania, in all the eighty graves, presenting this peculiarity. One adult skull had an extra suture, dividing

the parietal of the left side into two nearly equal portions. This skull was also remarkable for the extreme occipital flattening, and great development of large Wormian bones; also for the absence of the two lateral incisors of the upper jaw, which, if they were ever present, must have been lost early in life, as all signs of the alveoli, or of wide gaps between the teeth, were obliterated. Many bones bearing evidence of simple inflammatory disease, but none of any specific taint, and several showing united fractures, were also found.

The pottery resembles in type that from the Missouri graves, but is, as a whole, of better finish. There were no large and coarse vessels in the graves, although the large fragments of thick pottery with which the bottoms of many graves were lined show that large vessels were made. The pottery from the stone graves consists principally of water-bottles of various shapes, small food-dishes, and bowls. Some of these are ornamented by incised lines, and others by designs in colors. Among the stone implements found were a large and finely polished celt of chert, several long chipped points with serrated edges, and a few arrow-heads, one of which was found embedded in a dorsal vertebra of the skeleton in the grave. Several implements and ornaments made of bone were obtained, among them two long bone pins with large, flat heads, - both found close to skulls, suggesting that they were probably used for hair-ornaments; also a number of shell and terra-cotta beads, and a single carved disk of shell, resembling those previously found in the stone graves of the Cumberland valley; together with a clay pipe having an ornamental bowl. Only eight pipes have previously been obtained in the several thousand graves which have been explored for the museum. Of these eight, three were of pottery, and the rest of different kinds of stone; one of the latter was elaborately carved, representing a man holding a cooking pot which formed the bowl of the pipe.

An interesting discovery was made in the cemetery near the top of the hill, which at this place had gradually been gullied, and disclosed a mass of charcoal. On removing with a trowel all the earth about the charcoal, it proved to be the remains of burnt logs. A man was kept at work for several days following out the lines of charcoal and burnt clay; and after a time he succeeded in bringing to light, from under a few inches of clay, the charred floor-beams of a wooden structure of some sort. Within the enclosure formed by the charred logs were discovered a bed of ashes, a number of fragments of pottery, one perfect dish identical in character with those found in the stone graves near by; also a few burnt bones, two small discoidal stones, and discoidal pieces of pottery. The logs had been supported by clay, which partly covered them, and thus prevented their total destruction when the building, of whose floor they formed a part, was destroyed by fire. About ten feet in length and five in width of this structure were traced, of which a drawing was made before anything was disturbed. While stone graves were found on all sides, and within ten to twenty feet of the site of this structure, none were discovered under it; and there seems no reasonable doubt that these charred logs were the remains of a wooden structure of the period of the stone graves. (Putnam 1883c)

Putnam's article in the *Kansas City Review of Science*, entitled "The Stone Graves of Brentwood, Tennessee", also likely derived from his Peabody Museum lecture series on American archaeology.

> Brentwood is situated on the Little Harpeth River, fifteen miles from Nashville. The central portion of the farm is a natural elevation surrounded by low land running off to the Little Harpeth. Two very cold springs rise on the side of the hill. This beautiful spot was chosen by the Stone-Grave people for a village site. Here they dwelt and cultivated the land, raising corn, squashes and beans. The character of their houses is not known, but probably these were framed with upright posts, roofed with branches, and covered in with bark or clay. Some such structures have left, by their decay, circular ridges of earth, showing the outlines of the houses. In the Annual Report for 1878 is a diagram of one these towns which I explored and a description of objects found at that time, which are of the same character as those found since in this region.
>
> The distinguishing feature of these people is the burial of their dead in stone graves. Stone graves occur from Kentucky to Alabama to Georgia, but are more numerous in the Valley of the Cumberland than in any other part of that great region. Occasionally similar graves have been found outside of these limits, as in Ohio, Illinois, and even in New Jersey, but these isolated cases may or may not be of the same people, since similar cists, or stone graves, are also common in various parts of the Old World. To open these graves and remove their contents may seem like sacrilege, but there is no other way to study the history of these people, and again if they were not opened for science, their contents would be turned over by the plough, as is now the case every year. From the Cumberland Valley there have been brought to the museum the contents of several thousand stone graves, forming by far the largest collection ever brought together. On the farm at Brentwood the graves covered a knoll or small hill; up on the top of the hill they were very numerous and close together; on the sides groups of graves were found, or here and there a single grave.
>
> The bottoms of the graves were usually paved with fragments of rude pottery, or with small, flat stones; the sides and ends formed by great slabs of limestone, and the whole covered in with one or more slabs of limestone. The average length of the large graves is six feet, their width averages about eighteen inches and their depth ten inches. The slabs forming the sides and ends are sunk a few inches below the level of the bottom of the grave. The covering stones sometimes fitted tightly, but often they were laid across and covered by others, in one case even to the number of fifteen. Besides these large graves small graves, one to two feet long, occur, in some of which the bones are found out of the natural position, as if they had been brought to this place for re-interment; other small graves are those of children. In most of the graves only the bones of a single skeleton were found, but some contained the remains of two or more bodies, and in several graves there were skeletons of adults and children. It was from finding the bones of children and from the size of the smaller graves that there arose in early American archaeology the story of a race of pygmies.

From the eighty graves explored at Brentwood I succeeded in removing forty skulls and many skeletons. One grave five feet nine inches long by two feet wide and one foot deep, contained the remains of five bodies – three of adults and two of children. Two of the adult crania have a persistent suture down the middle of the frontal bone, which is rare in the crania of barbarous people, so that it is rather remarkable to have found two skulls presenting this feature in the same grave. A very great intricacy of the sutures of the back of the head is a common character among short-headed people, but, besides numerous supernumerary bones in this region, one skull shows a suture across the parietal never before seen in our collection. Several other skulls are remarkable, one for the great projection of the jaw, another for anchylosis of the skull and first vertebra of the neck, greatly impairing the freedom of movement of the head; still another has the two middle incisors set a little apart, while the lateral incisors seem never to have developed. In one grave, the skull of a very old person was found lying on the pelvis of another skeleton, such a mixture of the bones of different persons being not uncommon in these graves; often a single bone, the clavicle or some limb bone, is found buried with the complete skeleton of another individual. The bones bear mark of accident and suffering such as afflict the people of the present time – fracture of the cranium, resulting in death; broken limbs, repaired during life; some shinbones curved and others thickened, as if by rheumatism or some other inflammatory process. An arrow point lodged in a vertebra from the middle of the back, between the shoulders, was probably the cause of death of the person. Many of the bones are reduced nearly to dust, and others are so very fragile as to prevent our removing them from the graves. From this we could infer a great antiquity for these remains had we not learned that we cannot compute the length of time which has elapsed since the burial by the condition in which the bones are found, for in the matter of time required for the decay of bone, there are great individual variations. One condition alone serves us for a general test of the antiquity of bones. The black oxide of manganese, of which there are but minute quantities in the soil covering any buried body on the top of a hill is absorbed by the water percolating through the sod and in solution penetrates the substance of the bone in which it is deposited, giving rise to smaller or larger black dots and dendritic forms, such as are seen in some of these bones. When there is considerable of this black dotting we know that the bone has been exposed for a considerable time to this slow process.

In these graves many objects were placed with the dead, which friends may have thought necessary for their future life. It is curious that while upon the surface of this region immense numbers of stone implements or weapons of good form and finish may be picked up, the stone-grave people seem to have seldom buried these with their dead. One celt, a few knives and some chips embrace all the stone objects brought from the stone graves explored this summer.

Food and articles of domestic use, or for personal adornment, make up the list of contents of the graves. The broken bones of animals would seem to indicate that cooked meat was placed in the grave, while the shallow dishes common in these graves probably contained some soft edible, as spoons were often found in them. These spoons were cut from

> the right valve of the *Unio* or freshwater clam, and often the handle was notched or more elaborately ornamented. They are made for use with the right hand. The best pottery of the region is thin and black; the most common form is that of the small shallow dishes, notched about the rim, which have just been mentioned. A dish like a ladle, and one like a large cup with a hole on either side just below the rim, or suspension, are duplicated in our former collections from stone graves. The most difficult work of the potter of this region was probably to mould the heads of animals or the human head, as is so commonly done on the upper part of water bottles from this locality. This is similar to the highest order of potter's work among the mound builders of the Ohio Valley, showing a similar stage of development reached by these two peoples, for the potter's art is the key to the attainment in culture of an early people.
>
> Many little objects of pottery, images and tiny dishes, are, I believe, the playthings of the children; for whenever I have removed them from a grave, is has been either from the grave of a child, or if that of an adult, it is one in which a child was buried with the grown person. Coarse pottery in fragments lines many of the graves. In one grave there were large potsherds, to the number of more than thirty. In another grave there were pieces of burnt clay, in which were the impressions of reeds. Here is one pipe of clay, unfortunately somewhat broken.
>
> As a rule, pipes are very rare in stone graves, not more that ten having been found in the thousands of graves which I have opened.
>
> Many pottery beads were found of the same shape as the commoner shell beads. A single pearl bead, formed by perforating a larger pearl, was found. Near the head of one body lay a long, slender pin of bone. In a grave containing a perfect skeleton were found two fragments of a human cranium, which had been whittled into their present shape and laid in the grave, but for what purpose is unknown. Though former explorations have brought to light quite a number of copper articles in stone graves, none were obtained from this particular group.
>
> Descriptions of stone graves will be found in C. C. Jones' "Antiquities of Southern Indians," chapter 10; in "Explorations of the Aboriginal Remains of Tennessee," by Dr. Joseph Jones; "Smithsonian Contributions to Knowledge," 259, 1879, and in the "Eleventh Annual Report of the Peabody Museum." (Putnam 1883b)

The Jarman Farm (Brentwood Library) site was obviously a subject of interest for the Peabody Museum in 1883. Putnam's *Science* and *Kansas City Review of Science* articles, the 1883 report to the Peabody Trustees, and the (unfinished) manuscript of the 1882 excavations attest to his interest in the Jarman site (Appendix H; Putnam 1883a, 1883b, 1883c). In addition, his previous works in the Nashville area, along with the resulting publications, demonstrated his attraction to the general study area (Putnam 1878, 1880a, 1880b, 1881, 1882, 1884). With that said, however, this significant site would never again be celebrated in the archaeological record aside from a brief mention in Putnam's 1884 report to the Peabody Museum Trustees.

> …Several more of the stone graves in the ancient cemetery on Dr. Jarman's farm have been opened by Mr. George Woods, who was my foreman during my work there the preceding year, and has assisted me in several expeditions…(Putnam 1884:351)

For whatever reason(s), the 1882 Jarman Farm site excavations were not included in any subsequent works on Tennessee archaeology. The simple answer would be that no one outside the immediate influence of Harvard University was acquainted with Putnam's 1882 work in middle Tennessee. Perhaps the information obtained from the 1882 investigations just never filtered down to such archaeological enthusiasts as Gates P. Thruston or William E. Myer. Such a statement could not be said for Putnam's earlier 1877 explorations. Admittedly, the results of these investigations at Sellars Farm, Miss Bowling's Farm, and other locales were published soon after completion of the fieldwork (Putnam 1878:305-360). However, Thruston (a Nashville resident) should have been aware of the Jarman Farm excavation given his dedicated interest in Middle Cumberland archaeology, and his obvious respect for Putnam. Yet, there is no mention of the Jarman Farm site (or any mound centers or villages on the Little Harpeth River) in his 1897 signature tome *Antiquities of Tennessee*. On a related note, Joseph Jones had also failed to include any Little Harpeth River sites in his 1876 classic work *Explorations of the Aboriginal Remains of Tennessee*.

Such exclusions undoubtedly set the table for future omissions by researchers working in middle Tennessee. As previously mentioned, William E. Myer from Carthage dug two Brentwood area sites (Fewkes and Gordontown) for the Smithsonian Institution only a few decades after the Putnam investigations (Myer 1928). Myer merely hinted that he was aware of a site (at the Jarman Farm location) through a passing reference in his discussion of the Fewkes site.

> Two miles down the Little Harpeth from Fewkes group is a village and mound. (Myer 1928:561)

Myer placed no emphasis on this site despite its close proximity to Fewkes, and made no comment on the previous explorations in the immediate area (either at Jarman Farm or Gordontown). This omission suggests that he was either unaware of the Peabody Museum-sponsored work, or did not know that Putnam's "Jarman Farm" site referred to the nearby "village and mound" site. As a side note, Myer's reference to a mound at the Jarman Farm location must be challenged. This notation should be considered suspect since Putnam did not explore (or even note the presence of) a mound during his 1882 field investigation. Supporting this statement is the fact that the landowner, Dr. Jarman, failed to mention a mound in any of his personal correspondence with Putnam (Appendix E). To be sure, if a mound had been present on the Jarman Farm, Putnam would have dug into it.

Archaeological studies conducted in the Harpeth River valley after Myer were often limited in scope and guided by the previously cited antiquarian works (Dicks 1997; Ferguson 1972; Froeschauer 1985; Lannie 1979; Moore and Breitburg 1998; B. K. Smith 1972; Smith 1993a, 1994). The Jarman Farm site quietly settled into the archaeological background during the time leading up to July 1997. If Putnam had provided a more detailed description of the Jarman Farm location in his 1883 report, or if he had published his manuscript (as he did for the 1877 work), then perhaps the surprise discovery in 1997 could have been avoided. Such ruminations, however, serve no useful purpose for this study.

The goal of this report, then, is to accomplish what Frederic Ward Putnam did not have the time or opportunity to do. That is, to make available to the professional archaeological community and general public the results of archaeological excavations

at the Brentwood Library (Jarman Farm). Section one contains a brief outline of the study area environmental setting. Section two presents a historical narrative of the Brentwood Library site beginning with Dr. William H. Jarman. This chapter by Michael Moore, Kevin Smith, and Stephen Rogers focuses on the 1882 Jarman Farm explorations sponsored by the Peabody Museum at Harvard University. The third section, written by Michael Moore, provides an account of the 1997 project methods and results. Section four, also by Michael Moore, presents the numerous non-mortuary features uncovered by Division of Archaeology personnel and the consulting archaeologists. This chapter provides information on two palisade lines, 67 structures, and 143 refuse-filled pits. Section five displays the results of six radiocarbon dates obtained for the site.

Sections six through eleven contain the analyses of skeletal and cultural material recovered from the 1997 Brentwood Library investigations. In section six, Emanuel Breitburg and Michael Moore present an analysis of the exhumed skeletal remains. Michael Moore and Kevin Smith provide their ceramic assemblage study results in section seven. An analysis of the lithic assemblage is provided in section eight by Michael Moore. Section nine, by Judith Sichler and Michael Moore, presents an analysis of the vertebrate faunal remains. Andrea Bishop and Michael Moore offer a study of the charred floral remains in section ten. Section eleven describes shell artifacts along with other miscellaneous items from the 1997 investigation.

Section twelve, by Michael Moore and Kevin Smith, is strictly devoted to the skeletal and cultural materials recovered from the 1882 excavations at the Jarman Farm. These items were examined during the 1998, 1999, and 2002 research trips to the Peabody Museum of Archaeology and Ethnology at Harvard University. This separate section avoids confusion between the past and modern excavation results, and provides an opportunity to compare the types of artifacts recovered in 1882 with those found in 1997. Kevin Smith and Michael Moore present a short commentary in section thirteen on stone statues reported from the Jarman Farm site. Michael Moore provides a discussion of the Brentwood Library (Jarman Farm) site plan, along with concluding remarks, in section fourteen.

Nine appendices appear at the end of this report. Appendix A provides a list of feature numbers and field designations for the 1997 investigations. Appendix B contains detailed descriptions of the 2559 non-mortuary feature designations recorded during the 1997 work. Information on feature type, plan view and dimensions, profile, depth, associated artifacts, and additional remarks are provided (when available) in this appendix. Appendix C presents a compilation of data on 66 human graves removed during the 1997 investigations (66 graves with 75 individuals were removed under court order). Each burial has a general description, followed by information on age, sex, pathology, and anomaly. Metric measurements are provided with the description when possible. Appendix D provides a straightforward list of faunal remains by provenance.

Appendix E presents a page-by-page transcription of four letters and one postcard from Dr. William H. Jarman to Frederic W. Putnam that provided valuable insights into the initial discovery of the Jarman Farm, as well as the impending excavations in 1882. Appendix F is a page-by-page transcription of correspondence written by George Woods. These four letters mailed to Putnam and one postcard sent to Dr. Jarman enhanced our understanding of the events prior to and after the 1882 excavations. Appendix G presents a page-by-page transcription of Putnam's Jarman

Farm field notes. Appendix H is a page-by-page transcription of Putnam's unfinished manuscript on the Jarman Farm exploration. All of the correspondence in Appendices E and F are held in the Harvard University Archives, whereas the field notes and manuscript in Appendices G and H are archived at the Peabody Museum of Archaeology and Ethnology. Michael Moore transcribed the works presented in Appendices E, G, and H. Michael Moore and Stephen Rogers transcribed the post in Appendix F.

Appendix I contains an analysis of textile attributes from fabric-impressed pan sherds recovered during the 1997 excavations. In this study, Suzanne Hoyal presents important insights regarding the weaving styles of the Brentwood Library site residents.

On a final note, this Brentwood Library report comprises yet another product of the Middle Cumberland Mississippian Survey Project. The MCMSP was formed in the early 1990s with a primary mission to obtain and disseminate information on Middle Cumberland Mississippian sites (Smith 1993b). As previously noted, this Brentwood Library report directly benefited from the Tennessee records and artifacts held by the Harvard University Archives and the Peabody Museum of Archaeology and Ethnology (Moore and Smith 2009). These collections at Harvard University have proven invaluable to the MCMSP regarding (previously unknown) antiquarian archaeological studies in the Middle Cumberland River valley. With the completion of this work, the MCMSP has provided one more Mississippian resource to the professional archaeological community and general public (Moore and Breitburg 1998; Moore and Hoyal 1999, 2002; Moore and Smith 1993a, 1993b, 1994, 2001; Smith 1992, 1993a, 1994; Smith and Moore 1994, 1995a, 1995b, 1996a, 1996b, 1996c, 1999, 2000; Smith et al. 1993).

I. Environmental Setting

Michael C. Moore

Site 40Wm210 is located in northern Williamson County about four and one-half kilometers south of the Davidson County line. This site was established on a low ridge and terrace bounded by the Little Harpeth River to the east and a large spring-fed tributary to the west (Figure 2). The Little Harpeth River flows across north-central Williamson County in a northwest to west direction, and joins the Harpeth River about 10 kilometers northwest of the site area. From this confluence, the Harpeth River continues in a northwesterly manner and empties into the Cumberland River roughly 45 kilometers northwest of Brentwood Library.

Site elevations range from 670 feet AMSL along the relatively level terrace (adjacent to the Little Harpeth River) up to 690 feet AMSL on top of the gently sloping ridge toe. This locale represents the extreme northern end of a dissected ridge system with maximum elevations approaching 880 feet AMSL less than three kilometers south of the site area.

Physiography

Site 40Wm210 occurs along the western margin of the Central Basin physiographic region, an elliptical depression surrounded by the Highland Rim (Miller 1974:5). The Central Basin was formed during the late Paleozoic era by the relatively rapid erosion of an uplifted portion of bedrock known as the Nashville Dome. This region extends roughly 125 miles north to south and 60 miles east to west, and is often divided into inner and outer sections. Brentwood Library was established in the outer basin, which is characterized by higher elevations and more deeply dissected terrain in contrast to the generally smooth and gently rolling inner basin (Figure 3). Outer basin elevations average about 750 ft. AMSL. Some hills in the outer basin extend as high as 1300 ft. AMSL. Elevations in the inner basin are lower, averaging around 600 ft. AMSL.

The adjacent Western Highland Rim is a subdivision of the Highland Rim physiographic province (see Figure 3). This component is wider than the Eastern Highland Rim, and exhibits a more dissected and rolling terrain. Elevations within this region are generally higher than the Central Basin, with extensive areas above 1000 ft. AMSL. Finger-like projections of the Western Highland Rim extend into the outer Central Basin less than four kilometers west of the Brentwood Library site.

Underlying bedrock within the Central Basin is predominantly Ordovician limestone, shale, and dolomite (Miller 1974:9). Silurian, Devonian, and Mississippian rocks are preserved as erosional remnants. The Mississippian Fort Payne formation overlying Chattanooga Shale marks the contact between the Central Basin and Highland Rim (Wilson 1949:2). Most of the inner basin is covered with Stones River formation limestone. This section of the Central Basin also exhibits patches of bare platy rock and thin topsoil with red cedar glades. Karst features (caves and sinkholes) also characterize the inner basin.

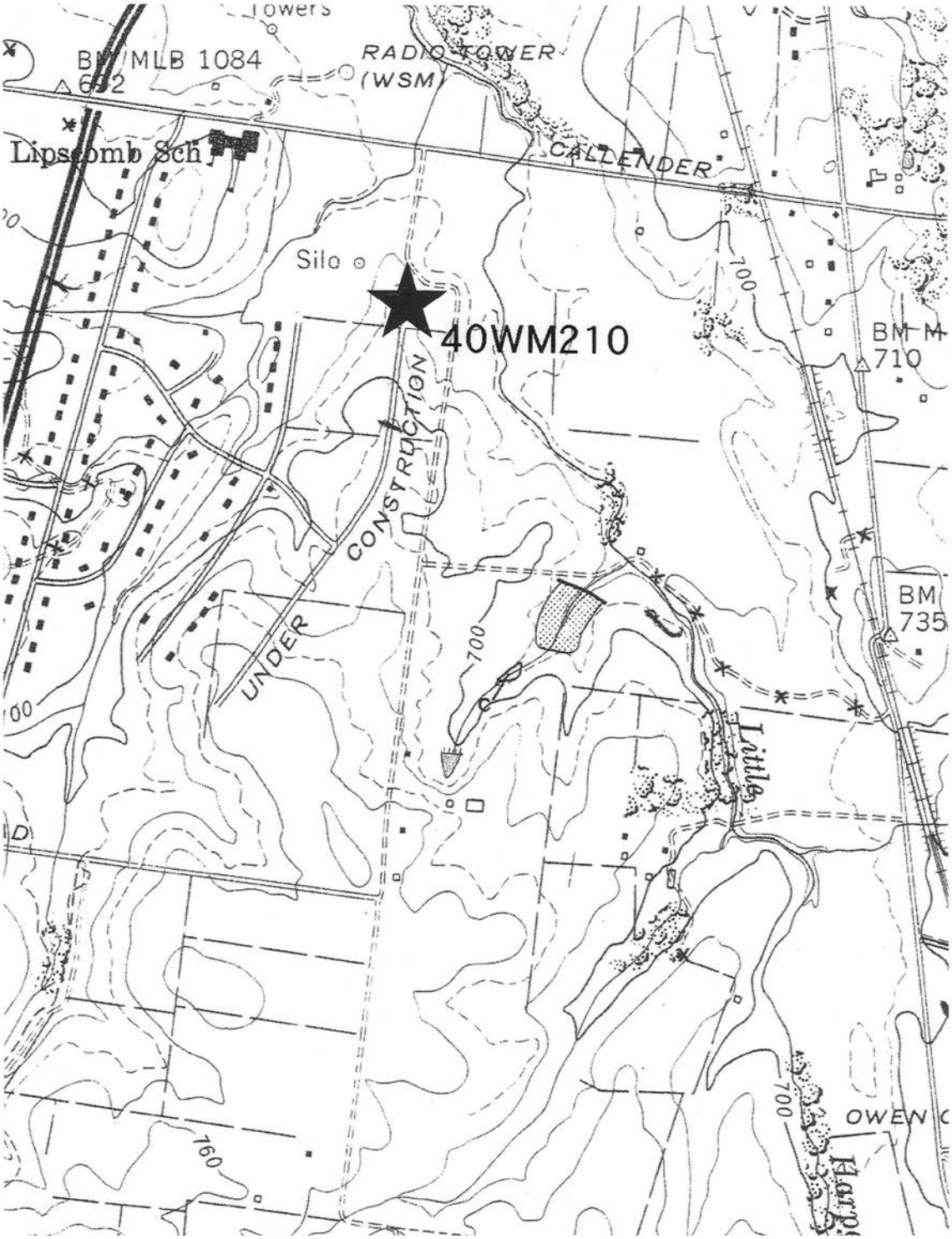

Figure 2. USGS topographic map location of the Brentwood Library site.

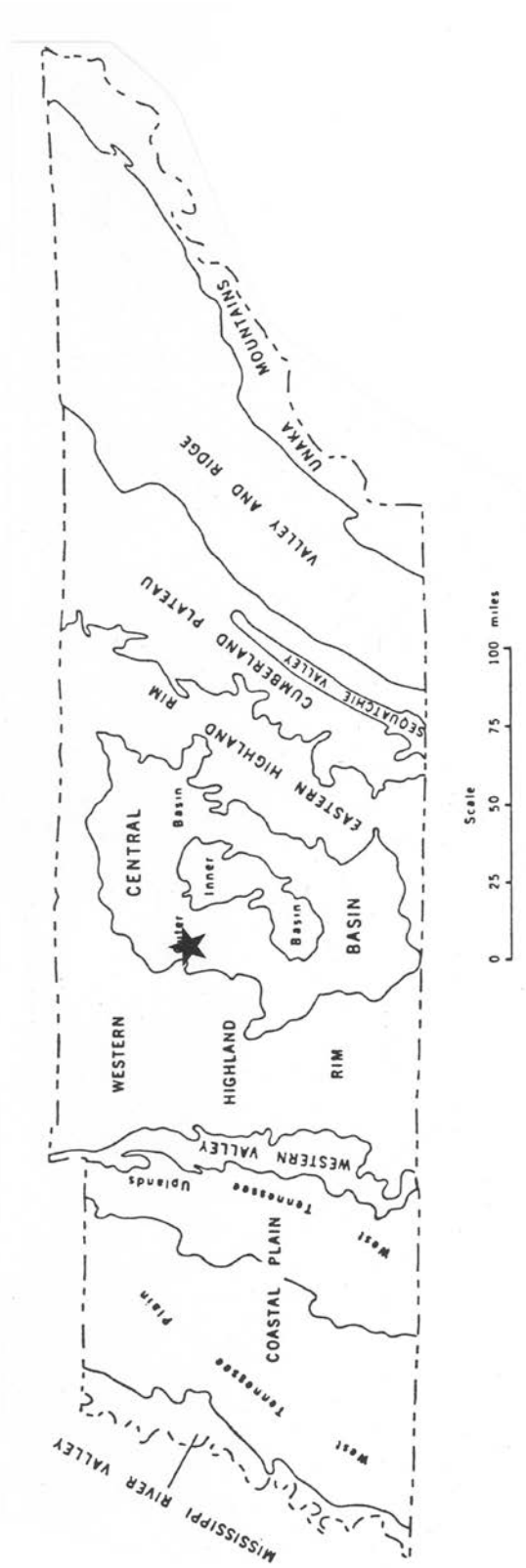

Figure 3. Physiographic province map position of the Brentwood Library site.

Abundant streams flow through the Central Basin and adjacent Highland Rim. The Brentwood Library site was established on the Little Harpeth River, a relatively small tributary of the Harpeth River. The Harpeth River represents a more sizeable stream that flows in a northwesterly fashion from its headwaters in the outer Central Basin to its confluence with the Cumberland River in the Western Highland Rim. The Cumberland River twists and turns on its westward journey through the northern portion of the Central Basin. Upon entering the Western Highland Rim, the Cumberland River changes to a somewhat northwesterly course and becomes less meandering. The Cumberland River eventually joins the Ohio River in southwest Kentucky.

Soils

Soils within the Central Basin were formed from underlying Ordovician limestone deposits. These soils have high silt content, and are rich in calcium derived from the parent material. For the outer basin, the parent material is also exceedingly phosphatic. This high phosphate component has led to intensive mining operations across the entire outer basin area. Thick deposits of alluvium and colluvium are present in basin valley floors. Loess covers a small percentage of soils within the region.

The Brentwood Library site was established over variable landforms encompassing two different soil types. The soils adjacent to the Little Harpeth River are classified as Arrington-Lindell-Egam-Armour (Springer and Elder 1980:18; True et al. 1964). This bottomland and terrace series consists of well-drained, phosphatic silt loams that are excellent for farming. Soils along the gently sloping low ridge overlooking the Little Harpeth River are classified as Maury-Braxton-Harpeth with two to five percent slopes (Springer and Elder 1980:38; True et al. 1964). This series occurs in gently sloping uplands and consists of deep, well-drained, silt loams derived from phosphatic limestone, alluvium, and thin loess. This soil series includes some of the best upland farming areas in Tennessee.

Climate

The climate of Williamson County in middle Tennessee can be described as temperate with distinct seasonal changes. Winters in this region are generally mild with average daily minimum temperatures around 30 degrees F (True et al. 1964). Cold snaps as low as -18 degrees F. do occur on occasion. The first freeze in fall averages about the third week in October. The average date of the last spring freeze is the middle of April. Summers can be hot with temperatures in the 90s F. common during July and August. However, hot spells up to 107 degrees F. have been recorded. Relatively high humidity averages (around 70%) during these hot months combine to make summers somewhat uncomfortable.

The Harpeth River valley averages just over 48 inches of annual precipitation. Most of this precipitation occurs in the form of rain. Snow falls on an infrequent basis (mostly in January) and in minimal amounts. Rainfall is generally lightest in the fall, and heaviest in the winter and early spring. Although rare, 24-hour rainfall amounts of five inches or more have been recorded. Thunderstorms are common during the summer months.

Flora and Fauna

Most of the Central Basin, including the Brentwood Library site area, occurs within the Western Mesophytic Forest Region (Braun 1950). This region originally supported upland climax communities of oak, hickory, tulip tree, beech, and chestnut. Hickory, winged elm, hackberry, and blue ash were among the species that covered the lower hills and flats. Cedar glades were (and continue to be) abundant in the inner basin.

Middle Tennessee falls within the Carolinian Biotic Province that is characterized by a rich and diverse faunal assemblage (Dice 1943). Native mammals include white-tail deer, elk, black bear, mountain lion, gray wolf, raccoon, bobcat, fox, mink, otter, skunk, weasel, muskrat, woodchuck, squirrel, cottontail rabbit, and opossum. Eagle, hawk, owl, turkey, quail, passenger pigeon, goose, duck, mallard, and teal were important bird resources for prehistoric residents of the study area. A large number and variety of snakes, frogs, turtles, fish, and mollusks also occur within this province.

II. EARLY INVESTIGATIONS AT THE BRENTWOOD LIBRARY SITE

Michael C. Moore, Kevin E. Smith and Stephen T. Rogers

The Brentwood Library explorations have their beginnings in a simple real estate transaction. Mr. Charles B. Knowles sold a tract of land along the Little Harpeth River in Williamson County to Dr. William H. Jarman on February 9, 1880 (Williamson County Deed Book 7, page 496). Jarman, born August 1824 in the state of Alabama, had served as a Captain with the 11th Alabama Calvary during the Civil War. After the war he lived in Arkansas for an unknown amount of time. By early 1880, however, Dr. Jarman had arrived in Tennessee and purchased the Knowles farm. The 1880 census for Williamson County lists Dr. Jarman's occupation as farmer as well as medical doctor.

Shortly after acquiring the Knowles property, Dr. Jarman discovered the remains of prehistoric (stone-box) graves while plowing the land. Whether or not Mr. Knowles had been aware of these graves is not known, and must remain in the realm of conjecture. Regardless, at some point after this discovery, Jarman decided to open several of the graves. He recovered a number of ceramic vessels from the burials along with other artifacts. Several of these artifacts were donated to the Tennessee Historical Society.

Unearthing native remains was nothing special for local landowners with stone-box cemeteries. Digging Indian graves was a fairly commonplace activity throughout the Cumberland River valley (Jones 1876; Moore and Smith 2001; Putnam 1878; Thruston 1897). However, in what was to become the key event for the emergence of the Brentwood Library site, Jarman shared his exploration results with the editor of the *Daily American* (one of the Nashville newspapers).

> Dr. W. H. Jarman, of Brentwood, yesterday brought in a collection of rare and interesting Indian relics, recently unearthed on his place. One of his fieldhands, plowing up a piece of ground, run his plowshare under a flat stone. The Doctor observing it, and struck by the peculiar square shape of the stone, had it lifted, and discovered the walls of what proved to be an Indian grave. With his own hands he proceeded carefully to explore it, and in a short time, resurrected a number of exceedingly interesting relics of Indian handiwork, consisting of unusually fine specimens of pottery, a dozen very perfect flint arrow-heads, small discoidal stone of a variety not familiar to our Tennessee geology. Some of the specimens of pottery, well preserved, were supplied with ears for hoops or hangers, and others with regularly scalloped edges, and as perfectly round as if gauged with a compass. One of the most interesting specimens in the collection was the fragment of a musical or wind instrument, constructed of the bone of some animal, with key-holes as perfectly formed as is executed with a steel implement. These relics were not taken from any of the tumuli or mounds about Brentwood, but from a grave in a flat field near a fine spring. The Doctor has donated them to the museum of the State Historical Society, with the privilege of reserving such specimens as are duplicated in the State Society's collection. (*Daily American*, September 8, 1881)

The significance of this conversation cannot be overstated. Not only did the editor publish Dr. Jarman's work as a story of local interest, but also more importantly, he suggested that Jarman contact Frederic Ward Putnam of the Peabody Museum at Harvard University. This recommendation set in motion a series of events that elevated the Jarman Farm (Brentwood Library) site to elite status among the archaeological finds in middle Tennessee.

Following the suggestion of the *Daily American* editor, Jarman wrote a letter to F. W. Putnam on December 5, 1881 (Appendix E).

> Some two years since I came in possession by purchase of a tract of land in Williamson Co. Tenn, on Little Harpeth River, 12 miles south of Nashville, and soon found there was a burying ground of some race who formerly inhabited the country… In opening some of these graves I have found some beautiful pots with unique designs on some of them, as also a wind instrument of a bone with beautiful and well made key note holes, rocks used in their avocation etc. Some of these I have donated to the Tenn Historical Society, of which I am a member, while others I have in my possession. I have formed certain opinions of these people from their mode of burial and articles in graves etc. and speaking of it to the Editor of American, a few days since he counceled me to write to you to get information already collected, name and drawing of stones, pots & cups. If you see proper to send me information on this matter, & I find I can throw additional light on it, I will be very glad to do so to you. (Jarman to Putnam, December 5, 1881; UAV.677.38, Harvard University Archives)

Dr. Jarman received an immediate response from Putnam, and wrote a second letter on December 14, 1881 (Appendix E). From the content of this second letter, Putnam obviously expressed a deep interest in the findings of Dr. Jarman and implored him to continue studying the site on his land as well as other sites. This request was not surprising given the Peabody Museum's previous experience in the Nashville area (Moore and Smith 2001; Putnam 1878; Moore and Smith 2009).

> …In any future opening of graves I will be more careful & employ better labor…I fully appreciate the necessity of a proper study of our aboriginal people by every means in our power, and as much as I am able, will assist you…I have heard of several burial places in this county, said to be extensive, but I haven't seen them. As you request it, I will give what time I can spare from my practice and other business obligations, charging nothing for my own services unless I incur actual money expense, but the careful labor of men such as you speak about, will cost from $1.00 to $1.50 per day, and if you tell me to go ahead, will commence on my own farm and extend my operations as after examination…After hearing from you again, I will begin my operation, as my business will permit. (Jarman to Putnam, December 14, 1881; UAV.677.38, Harvard University Archives)

Of particular interest in this second letter is the suggestion of Putnam returning to Tennessee. Putnam's intention to dig the Jarman Farm is implied in the text of Dr. Jarman's letter (this objective later confirmed by Putnam's arrival in Brentwood during May of 1882).

> …When you make your expected visit to Tenn. it will give me much pleasure to see you, and give you the assistance I am able in your intended work…(Jarman to Putnam, December 14, 1881; UAV.677.38, Harvard University Archives)

Based on the content of Jarman's February 28, 1882 letter, Putnam had suggested that Jarman locate a local laborer named George Woods to help explore the Jarman Farm (more on George Woods later in this section). Dr. Jarman stated in this third letter that he had written to Woods (most likely February 6, 1882) and received a reply (see Appendix E). Woods reply to Jarman indicated he was interested in the job offer but could not come at that particular time (Appendix F).

> I wrote to George Woods as soon as I received your letter and inclose you his reply…(Jarman to Putnam, February 28, 1882; UAV.677.38, Harvard University Archives)

> Yours of the 6th came to hand Friday…It is not convenient for me to come now. But will come as soon as I can. Would like to have the job if we can make things satisfactory to both parties…(Woods to Jarman, February 13, 1882; UAV.677.38, Harvard University Archives)

Dr. Jarman did not investigate any additional burials, probably in deference to Putnam's interest and expertise in stone-box graves. He did, however, continue to collect artifacts from the site surface in anticipation of Putnam's impending visit. From the tone of his correspondence, Jarman was anxious for Woods to begin working and seemed a bit annoyed that he had not arrived.

> …He has not put in his appearance and fear he will not. The weather since the first of the year has been so wet that little could have been done, but the past week has been more favorable and if Woods had been on hand would have employed him…(Jarman to Putnam, February 28, 1882; UAV.677.38, Harvard University Archives)

> Nothing yet of Woods…(Jarman to Putnam, March 23, 1882; UAV.677.38, Harvard University Archives)

As discussed later in this section, Woods eventually made his appearance at the Jarman Farm (as F. W. Putnam's foreman) in May 1882. Dr. Jarman continued to live on his farm for a number of years after the 1882 excavations, but had moved to Nashville by the time he died of cancer on July 5, 1904.

> Dr. W. H. Jarman died yesterday in this city, aged 79 years: For the past twenty-five years Dr. Jarman had been a resident of this city, spending most of this time, however, on his farm near Brentwood. He was a native of Alabama, and there he first began the practice of his profession, later going to Arkansas. After that he came to Tennessee, and since his residence here had practiced very little, his private affairs consuming his time. As a physician, he was very successful and rose to high rank in the profession.

> During his travels, Dr. Jarman had collected a large number of Indian relics, which a short while ago he presented to Vanderbilt University.
>
> Funeral services over his remains were conducted this morning at the residence of his brother-in-law, Mr. Joel W. Carter, 117 South Belmont Avenue, by Rev. J. D. Barbee. The interment was at Mt. Olivet. (*Nashville Banner*, July 6, 1904).

Putnam Excavation at the Jarman Farm

Frederic Ward Putnam (1839-1915) was appointed as Curator of the Peabody Museum of Harvard University in 1874 and held this position until 1909. He appears to have been introduced to Tennessee archaeology through an 1869 article written by the prominent avocational archaeologist Joseph Jones (Jones served as Health Officer of Nashville from 1868-1869). The article "The Aboriginal Mound Builders of Tennessee" was published in the *American Naturalist*, a journal founded and edited by Putnam. This particular article, along with "a number of photos of [Jones'] collection" sent to Putnam in 1874 or 1875, probably stimulated Putnam's interest in the archaeology of the Middle Cumberland area (Williams 1986:6).

Putnam came to Nashville in late summer of 1877 for the annual meeting of the American Association for the Advancement of Science (Smith 2003). He spent the month of September 1877 directing site excavations in and around the Nashville area. The excavation results from five sites (Fort Zollicoffer, Traveler's Rest, Bowling Farm, Brick Church Pike Mound, and Sellars Farm) were soon published as *Archaeological Explorations in Tennessee* (Putnam 1878). Interestingly, several sites (including Bowling Farm) were co-excavated with John Wesley Powell, director of the Smithsonian Institution.

The Peabody Museum's interest in Tennessee archaeology did not diminish at the conclusion of the September 1877 investigations. Prior to Putnam's departure from Nashville, he hired local resident Edwin Curtiss to collect as many artifacts as possible and ship them to the Peabody Museum (Moore and Smith 2001, 2009; Putnam 1881). Curtiss had performed as Putnam's chief assistant during the September 1877 work, and was a hardworking employee for the Peabody Museum until his sudden death in December 1880.

The death of Edwin Curtiss had to be difficult for Putnam on several fronts. He not only lost a trusted employee, but a prolific source of cultural material as well. The receipt of Dr. Jarman's (December 5, 1881) letter was no doubt a stirring, if not opportune, occasion for Putnam. His immediate response of December 10, 1881 outlining the importance of the finds and the need for additional explorations (Jarman Farm as well as other sites) supports this statement.

Putnam was apparently so moved by this prospect that he decided to explore the Jarman Farm for himself. After several letter exchanges with Dr. Jarman, Putnam arranged to come to Tennessee in May of 1882. Putnam excavated the Jarman Farm between May 26 and June 5, 1882 (no work on Sundays May 28 and June 4, however). He provided a presentation of his exploration results in the 1883 Annual Report to the Peabody Museum Trustees:

…I was also able to take the field in person, and under my immediate direction explorations have been made of…an ancient cemetery in Brentwood, Tenn…

My explorations in Tennessee were made in the vicinity of Brentwood, Williamson County, during the months of May and June, and I must here express my indebtedness to Dr. W. H. Jarman and Mrs. Jarman for their kind assistance.

About a mile from Hunt's mound, on the rising ground upon which stands the house of Dr. W H Jarman, are the remains of what was formerly an extensive cemetery, covering several acres, but as most of the ground has long been under cultivation hundreds of graves have been destroyed by former owners of the land without any heed given to their contents. In the immediate vicinity of Dr. Jarman's house, I opened eighty graves which had not been disturbed. The top stones of many of these were from two to three feet below the surface, which is an unusual depth.

These graves were of the same character as the several thousand which have been explored by Mr Curtis and myself in the Cumberland valley. They were made of large slabs of stone placed edgewise, to form the sides and ends, on which other flat stones rested, forming the tops of the graves. The bottoms of these cists were sometimes lined with small stones but oftener with large potsherds. In some instances the lining was probably of bark. In several of these graves, two or three, and in one instance five, bodies were buried. In two graves I found, besides the skeleton of the person for whom the grave was made, one or two bones belonging to a second individual in such positions as showed that they had been carefully placed in the grave. In the grave of an adult whose skeleton was removed nearly entire, there was the skull, but no other bones, of a very old person, which was unquestionably placed in the grave at the time of the burial of the body. In one grave containing five skeletons, two of the three adult crania have persistent frontal sutures, and these are the only crania from the eighty graves presenting this peculiarity. One adult skull has an extra suture dividing the parietal of the left side into two nearly equal portions. This skull is also remarkable for its extreme occipital flattening, and for the great development of large Wormian bones. The two lateral incisors of the upper jaw are absent, and if they were ever present they must have been lost early in life, as all signs of the alveoli or of wide gaps between the teeth are obliterated. Many of the bones found in these graves bear evidence of simple inflammatory disease but none of any specific taint. Several bones showing united fractures were found.

As has been the case in all the other cemeteries of the stone-grave people of Tennessee, considerable well-made pottery of an ornamental character was found in the graves at Brentwood. This pottery resembles in type that from the Missouri graves, but is, taken as a whole, of better finish. There were no large and coarse vessels in the graves, although the large fragments of thick pottery with which the bottoms of many graves were lined show that large vessels were made. The pottery from the stone-graves consists principally of water-bottles of various shapes, small food-dishes, and bowls. Some of these are ornamented by incised lines, and others by designs in colors. Stone implements have

never been found in large numbers in the stone-graves, although they have yielded some very fine and interesting chipped and polished specimens. Among the articles of this character from the Brentwood graves, are a large and finely polished celt of chert, several long chipped points with serrated edges, and a few arrowheads, one of which was found embedded in a dorsal vertebra of the skeleton in the grave. Several implements and ornaments made of bone were obtained from the graves, among them two long bone pins with large flat heads, both found close to skulls, suggesting that they were probably used for hair ornaments. Several terra-cotta and shell beads were found, also a single carved disk of shell, resembling those previously found in the stone-graves of the Cumberland valley. A clay pipe with an ornamental bowl was taken from one of the graves. Very few pipes have been found in the stone-graves, only eight having been obtained in the several thousand graves which have been explored for the Museum. Of these eight, three were of pottery, and the rest of different kinds of stone, one of the latter, elaborately carved, representing a man holding a cooking pot which formed the bowl of the pipe.

An interesting discovery was made in the cemetery, close to the gate of Dr. Jarman's door-yard. The hill at this place had gradually been gullied, and after a late rain Dr. Jarman has noticed a mass of charcoal to which he called my attention soon after my arrival. On removing with a trowel all the earth about the charcoal, it proved to be the remains of burnt logs. A man was then kept at work for several days following out the lines of charcoal and burnt clay and after a time he succeeded in bringing to light, from under a few inches of clay, the charred floor-beams of a wooden structure of some sort. Within the enclosure formed by the charred logs were discovered a bed of ashes, a number of fragments of pottery, one perfect dish, identical in character with those found in the stone-graves near by, also a few burnt bones, two small discoidal stones and two discoidal pieces of pottery. The logs had been supported by clay which partly covered them and thus prevented then total destruction when the building, of whose floor they formed a part, was destroyed by fire. This structure was traced for about ten feet in length and five in width, and a drawing was made before anything was disturbed. While stone-graves were found on all sides and within ten to twenty feet of the site of this structure, none were discovered under it, and there seems no reasonable doubt that these charred logs were the remains of a wooden structure of the period of the stone-graves. (Putnam 1883a:159-165)

The primary focus of Putnam's work at the Jarman Farm was digging burials. He initiated work on Friday, May 26 with three men and worked over a nine-day period through Monday, June 5 (excluding two Sundays). Additional men must have joined the explorations since Putnam noted a total of 44 days labor for this investigation. Putnam opened (at least) 87 stone-box graves at the Jarman Farm. This number does contrast with his field note total of 81 burials (see Appendix G). A closer review of these notes, however, indicates that Putnam dug 39 graves on a low hill around the Jarman house (Figure 4). Another 48 graves were excavated in a garden located south of the house (Figure 5). The Peabody Museum catalog also lists one grave found east of the Jarman house. Dr. Jarman excavated this burial in 1881 and donated the material to Putnam.

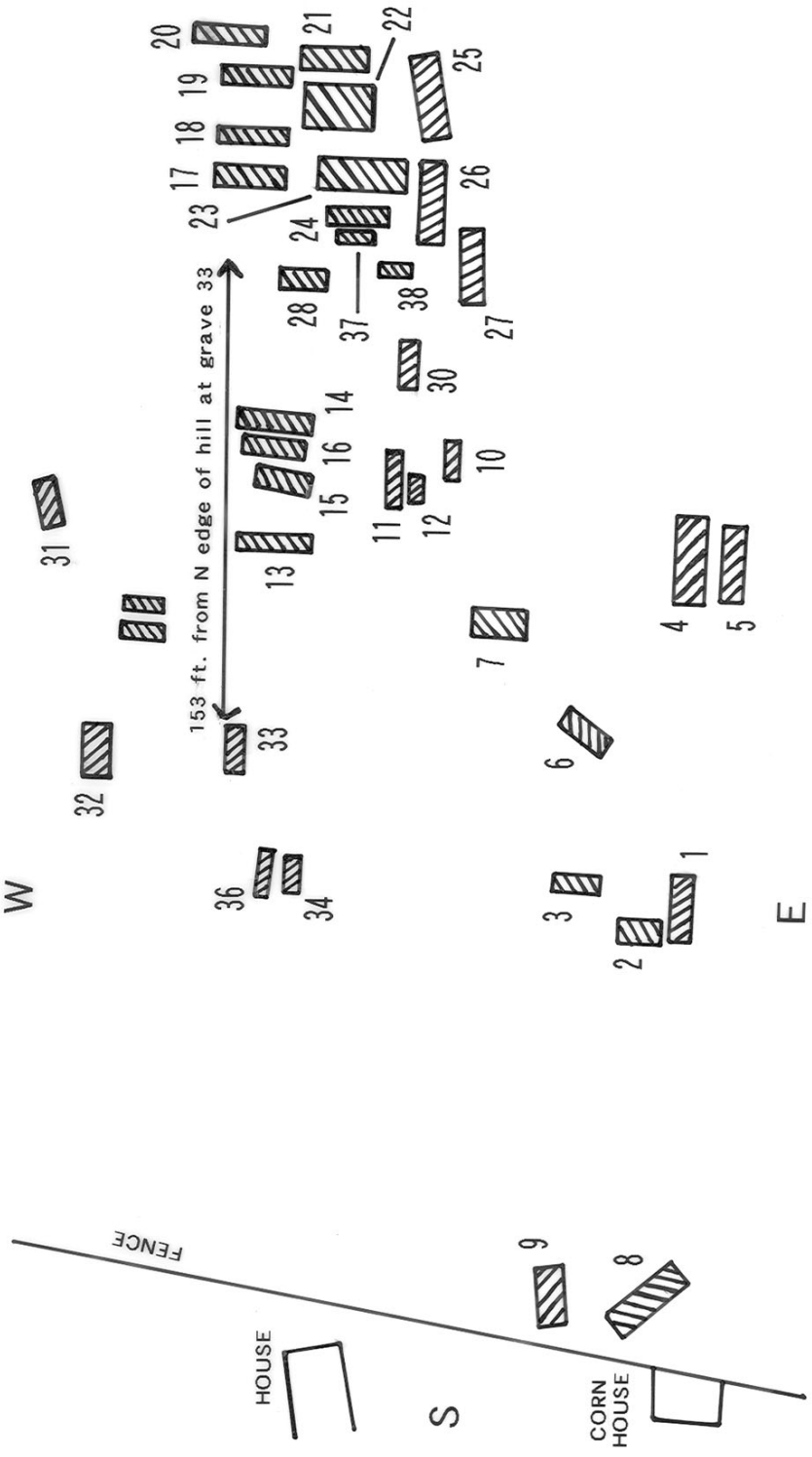

Figure 4. Drawing of Putnam's sketch map of graves dug on low hill around the Jarman house, June 1882 (Accession File 82-35E, Peabody Museum Collections Dept, Harvard University).

Putnam also dedicated valuable man-hours to excavate “a mass of charcoal” visible in an erosional gully near a yard gate. One man spent several days uncovering what turned out to be the burned remains of a domestic structure. Several charred timbers and a bed of ashes (possible hearth?) was found under a layer of “burnt clay” (probable wall). Among the items recovered from the exposed structure floor were ceramic vessels, stone discs, and animal bones (Figure 6). One characteristic feature not observed was an infant grave. This result is inconclusive, however, since the ten-foot by five-foot structure area uncovered by Putnam represents less than one-half the dimensions of an average Mississippian house.

Descriptions of the skeletal remains and artifacts removed by Putnam can be found in Section XII. Also, Appendix G contains a transcription of Putnam’s field notes. Putnam also prepared a manuscript of the Jarman Farm work, presumably for publication at some point in time. This manuscript, transcribed in Appendix H, is a revised version of Putnam’s field notes along with catalog numbers for the skeletal and artifactual materials described in the notes.

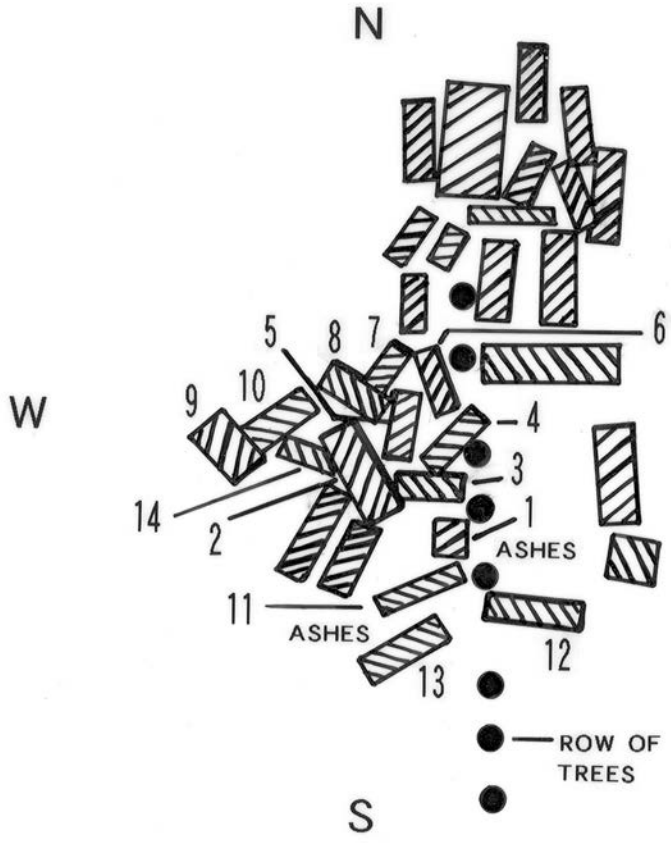

Figure 5. Drawing of Putnam’s sketch map of graves dug in garden south of Jarman house, June 1882 (Accession File 82-35E, Peabody Museum Collections Dept, Harvard University).

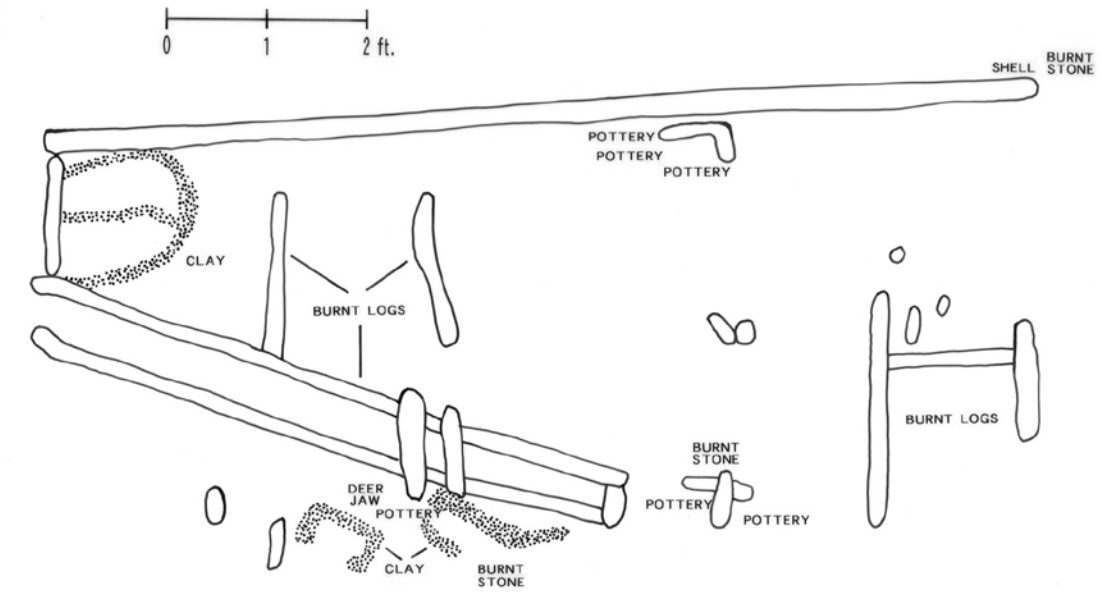

Figure 6. Drawing of Putnam's sketch map of burned structure. (W. H. Jarman, June 2, 1882, Accession File 82-35F, Peabody Museum Collections Dept, Harvard University). Text written on sketch map states *This singular arrangement of burnt timbers and burnt clay is near the top of hill on which are many stone graves, about 200 ft. to N of Dr. Jarman's house, Brentwood, Tenn. – the earth all about is full of ashes, charcoal and burnt stones & the clay on which this framework rests is burnt – The pottery shows it to be the remains of a log structure made by the same people who made the stone graves. Several small stone and pottery discs, flint chips are found on the clay within the logs.*

Woods Excavation at the Jarman Farm

George Woods remains something of an enigma in the archaeology of middle Tennessee. Antiquarian archaeologists working in Tennessee were generally wealthy men of prominent social stature. Woods, of African-American descent, was born in the state of Tennessee in March 1842. He was likely born a slave given this early date. Nothing is known of his early life, but Woods did live in Nashville during his adult years. He married twice (Lizzie Thompson 1881 and Annie Perry 1894), and had one daughter (Mary, born 1880) and one granddaughter (Mableleen, born circa 1904). Woods held a variety of occupations as an adult, including train porter, blacksmith, laborer, and quarryman. He will be most remembered, however, as the black field hand from Tennessee who established a multi-year relationship with the most prestigious university in the United States. After his tenure as a local field man for the Peabody Museum, Woods continued to live and work in Nashville until his death on September 28, 1912.

Our first introduction to Woods comes from Edwin Curtiss during his Peabody Museum-sponsored explorations in Arkansas (Mainfort and Demb 2001).

> …yesterday two of my old hands…those that have been with me for two years…there names are Joe Woods and George Woods (Curtiss to Putnam, February 2, 1880; Accession File 79-4B, Peabody Museum Collections Dept., Harvard University)

Curtiss was very complimentary of the Woods brothers and thought highly of their excavation skills (Mainfort and Demb 2001). Conversely, Curtiss' opinion of Arkansas residents was less than flattering.

> …as for white labour it is not worth feeding and the [blacks] here are not much better trifling set and I can get two old hands that have been with me for two years in Nashville and do more with them than I can with 5 of those here and be sure of them evry day (Curtiss to Putnam, undated letter between late October and mid-November, 1879; Accession File 80-20, Peabody Museum Collections Dept., Harvard University)

> …I think I had better fetch my old hands for the labour is vary treacherous here…if I had my old hands here from Nashville…two of them would do more than 5 of this kind can or will do…(Curtiss to Putnam, November 9, 1879; Accession File 80-20, Peabody Museum Collections Dept., Harvard University)

> …So you can send the money here to Nashville for I shall take two men over to Arkansas from here with me…(Curtiss to Putnam, November 16, 1879; Accession File 80-20, Peabody Museum Collections Dept., Harvard University)

> …my hands are sick and tired and played out money don't appease there murmers…I cant hire any of the natives for that is truly throwing money away and I told the boys that I must have one more month if possible… (Curtiss to Putnam, March 5, 1880; Accession File 80-20, Peabody Museum Collections Dept., Harvard University)

After the death of Curtiss in December 1880, Woods wrote to Putnam in June 1881 asking whom to contact for work digging archaeological sites (see Appendix F).

> Have you any-one in the Historical Department of Cumberland Valey or State of Tenn. to fill the place of Mr. E. Curtis. If so would be pleased to know who he is so I can apply to him for a place you know Brother Joe and my self was with Mr. Curtis about two years. The last trip was Ark from which place Brother Joe & my self sent you the 9 pices of potery. With my experence, I am confident that I can do you good service…(Woods to Putnam, June 20, 1881; UAV.677.38, Harvard University Archives)

This particular letter initiated an unlikely relationship with Putnam that lasted (at least) until December 1884. Archival research found eleven letters written to Putnam. The personal handwriting of Woods was extremely difficult to read. He spelled many words phonetically with a scratchy penmanship style. Considering the times, however, the fact that Woods could read and write at all was most fortunate. Other people with more legible handwriting wrote a number of his letters to Putnam.

George Woods had unknowingly become an integral part of the Jarman Farm story by sending his June 1881 letter to the Peabody Museum. Putnam was undoubtedly aware, through his previous correspondence from Edwin Curtiss, that Woods was an experienced and trusted worker. It was with minimal reservation, to be sure, that he suggested Dr. Jarman hire Woods to dig the Jarman Farm graves. Unfortunately, Woods could not come to the Jarman Farm when initially contacted in February 1882. He eventually arrived at the site (just after his 40th birthday) in May 1882 and served as Putnam's foreman for the May-June 1882 excavation (Putnam 1884:351).

Arrangements between Jarman, Putnam, and Woods regarding future work at the Jarman Farm remain in the realm of conjecture. Whatever the plans, George Woods returned to the Jarman Farm in December 1882 (see Appendices E and F).

> George Woods has been working on my place, but the weather is so severe as to put a stop to it for the present. His finds are stored with me. (Jarman to Putnam, January 12, 1883; UAV.677.38, Harvard University Archives)

Putnam briefly mentioned this investigation in his 1884 Annual Report to the Peabody Museum Trustees.

> …Besides these explorations in the west, we are indebted to the subscribers of 1882-3 for the means of extending our researches in the southern states to a limited extent. Several more of the stone graves in the ancient cemetery on Dr. Jarman's farm have been opened by Mr George Woods, who was my foreman during my work there the preceding year, and has assisted me in several expeditions. The examination of this locality therefore has been made more complete, and it is of the first importance to make a thorough exploration of every place where work is begun. (Putnam 1884:351)

Other than this short paragraph, very little information exists regarding Woods' investigation at the Jarman Farm. Whatever he uncovered was sent back to the Peabody Museum in 1883 with minimal notation. The museum artifact catalog indicates that Woods dug (at least) nine stone-box graves. The only clue for grave provenance comes from Burial 1 which was located southwest of the Jarman house. Most (if not all) of the other graves likely originated from the same general area. Section XII of this report presents descriptions of the skeletal remains and artifacts removed by Woods from these nine graves.

The relatively sparse number of graves noted in the Peabody Museum catalog indicated that Woods had not been working long before bad weather forced him to stop digging. He never resumed digging at the Jarman Farm, in part due to extensive bouts of ill health (Appendix F).

> …I have bin sick every sinc the 27 day of Dec…(Woods to Putnam, April 15, 1883; UAV.677.38, Harvard University Archives)

> Geo Wood, Col of this City requisted me to write you & say to you, that he had been indisposed, and had not sent your specimens as yet…(Woods to Putnam, April 23, 1883; UAV.677.38, Harvard University Archives)

> …its with a sad mind that I seat my self to say to you that I have bin scick every…so that I coud doo nothing to work…(Woods to Putnam, May 10, 1883; UAV.677.38, Harvard University Archives)

Following the December 1882 work, Woods' health problems kept him from digging sites for the Peabody Museum on a regular basis. He did eventually return to the Jarman Farm in early May 1883 and pick up the artifacts to ship to Putnam.

> …I got a spring wagan last Sunday morning and (???) to Dr Jarmon and got thos spesmints that I laft thir in Decbur…(Woods to Putnam, May 10, 1883; UAV.677.38, Harvard University Archives)

After this, however, it would be a year before Woods would again correspond with Putnam (letter of May 27, 1884).

Concluding Remark

The limited work in December 1882 by George Woods appears to be the last Peabody Museum-sponsored exploration at the Jarman Farm. No evidence for additional work was found in the Harvard University Archives or Peabody Museum records. This abrupt (and admittedly lackluster) ending to the Jarman Farm work seems odd given the obvious interest in the site by Putnam. However, Putnam was a prolific scholar with numerous projects and relationships across the country. In retrospect, given the substantial archaeological sites and other ventures he was involved with over his career, the fact that he took time to come back to Tennessee was a testament to the magnificent archaeology here in the Middle Cumberland valley.

III. MODERN ARCHAEOLOGICAL EXCAVATIONS

Michael C. Moore

The Brentwood Library site was "rediscovered" on July 29, 1997 by grading activity associated with construction of the new city library. By chance, a construction worker observed the rectangular outline of stone-box graves and notified the head librarian for the City of Brentwood (Gina Bradford). She, in turn, reported to the Tennessee Division of Archaeology that on-going library construction had possibly uncovered human bones. Division personnel responded to the call that same day and observed stone-box graves within the library construction zone (Figure 7). All earthmoving activity for the project was suspended at that time since human graves had been positively identified.

After a brief consultation, the City of Brentwood requested the Division of Archaeology conduct a more thorough examination of the library property and assess the nature of the exposed cultural remains. This assessment was initiated the following day with a comprehensive reconnaissance survey of the construction area. Division personnel found that much of the construction zone had experienced some level of disturbance before earthmoving activity was stopped. The intense construction work had focused on the actual footprint of the library building. The building was designed as a somewhat semi-circular structure that wrapped around the low ridge overlooking the Little Harpeth River. Grading activity had removed a substantial amount of soil along the ridge base in preparation for the foundation work. A rock pad (over one meter thick) had then been built up on top of the graded area. Given these observations, the area under the rock pad was deemed destroyed. The relatively level land just east and north of the building pad was proposed for parking lots. Grading activity within these areas (located between the Little Harpeth River and low ridge) had removed six to eight inches of soil, but created relatively minimal trauma. The disturbance at this depth was such to remove capstones from some of the stone-box graves, but minimal enough to preserve the numerous cultural features present within this portion of the construction zone. As discovered later in the project, the weight of the heavy machinery did more damage in the proposed parking lots than the cutting blade.

The site area along the ridge and slope was cleared of secondary forest growth but not badly damaged. A house on top of this ridge had been removed prior to the Division investigation. Interestingly, a subsequent review of early USGS quadrangle maps, aerial photographs, and the 1882 Putnam field notes determined this particular structure (or possibly another at this location) was the Jarman home.

The reconnaissance survey established that heavy machinery had exposed numerous stone-box graves, especially within the proposed parking areas adjacent to Knox Valley Drive. Flags were used to initially mark the grave locations, with all defined burials subsequently covered with sheet plastic. No further evaluation of these graves was conducted at that time. Grading activity had also bared numerous non-mortuary features, including a palisade line section, near the southeast corner of the construction zone (Figure 8). This particular feature was the subject of limited shovel testing to define its route. Identification of the palisade route was terminated when the post pattern moved into undisturbed areas of the construction zone. A short segment of a second palisade line (with bastion) was also identified during the course of this testing. Other

Figure 7. Stone-box grave (center of photograph) exposed by initial grading activity for proposed library, late July 1997, looking northeast.

Figure 8. Segment of palisade line defined by Division of Archaeology personnel, late July 1997, looking southwest. Note line turn at left side of photograph.

non-mortuary features observed across the construction area included puddled-clay hearths, burned limestone clusters, and refuse-filled pits. After several days of work, the Division was able to document the presence of a substantial Mississippian period town at the location of the proposed city library.

The City of Brentwood was now in a tight spot, as officials were forced to reconsider their new library project given the presence of human graves within the construction zone. Under the Tennessee state cemetery law, human remains, whether prehistoric or modern, cannot be knowingly disturbed or removed without a court order (T.C.A. 46-4-101-104). Upon weighing their alternatives, the City decided the option to simply discontinue work and abandon the property was not feasible due to the significant amount of money already invested in the project. City officials indicated their desire to conduct an archaeological evaluation of the project zone, and legally remove any human remains that could not be avoided by construction activity (Moore 1998). Upon reaching this decision, the City hired a local archaeological consulting firm (DuVall & Associates, Inc.) to conduct the burial identification and removal. The removal plan initially called for the consultant to strip (to subsoil) the remaining overburden from the library construction zone to locate any additional human burials that may be present. After completion of the grave identification, any graves within the building footprint or parking lot that could not be avoided by construction activity would then be subject to removal.

Under the state cemetery law, the City of Brentwood was legally required to deal with the human remains within the construction area. However, the City was under no obligation to examine any of the numerous non-mortuary features (i.e. structures, refuse-filled pits, or palisade lines) that would be exposed during the search for burials. Given this situation, the Division of Archaeology asked the City for permission to be on-site to record the non-mortuary features uncovered over the course of the removal project. The City granted this request with the understanding that construction activity would move forward once an area was cleared of burials.

With this agreement, then, exploration of the Brentwood Library site became a salvage project with two separate organizations working together toward different goals. The private consultant was charged with removing the plowzone and midden layers to find (and remove, if necessary) human skeletal remains. The mission of the Division of Archaeology was to identify, map, and (time permitting) excavate the non-burial features destined to be uncovered during the stripping operation. The Division was also on-site to provide technical assistance to the City and private consultant when needed. This arrangement was nothing new for the Division, having previously conducted several site investigations under similar circumstances (Moore and Breitburg 1998; Moore and Smith 2001).

Project excavations started the first week of August 1997 and continued into November 1997. Much of the stripping work was executed using a gradall equipped with a five-foot toothless bucket (Figure 9). Excavated soil was usually loaded directly into a dump truck and hauled to a remote section of the construction zone. Consultant and/or Division personnel monitored the stripping operations and marked the location of all exposed cultural features with pin flags. Stone-box graves (or other suspected human burials) were covered with sheet plastic for further evaluation by the consultant. The consultant also bisected any pit feature over 30 cm in diameter to determine if human skeletal remains were present. Consultant work ceased once the pit was determined to not contain a burial.

Figure 9. Stripping operations in parking lot area, looking north.

Of the 85 actual graves identified within the library construction zone, 66 were designated for removal. The vast majority of graves to be removed were stone-boxes (n=60), followed by pit burials (n=4) and ceramic vessels (n=2). The consultant employed standard archaeological techniques to exhume each burial. First, the general grave area was troweled to define the exact dimensions. Burial furniture and fill were then carefully removed using such hand tools as trowels, dental picks, bamboo picks, and small paint brushes. A plan map illustrating the burial dimensions, body position, skeletal elements, and associated artifacts was drawn prior to removal of the skeletal remains. Each burial was documented during the removal process using color slide and black and white film photography. Exhumed skeletal remains were placed in labeled paper bags and boxes in the field for transport to the consultant facility (to be washed). After being cleaned, the skeletal remains were transferred to the Division of Archaeology for analysis.

The top priority of the Division of Archaeology during the Brentwood Library burial removal was to delineate the town plan. This objective was especially challenging given the substantial number of domestic structures recorded over the course of the project (see Section IV and Appendix B). Documentation of these structures began as soon as the removal project was initiated. As previously mentioned, consultant and/or Division personnel set pin flags in postholes and other associated structure features exposed through the stripping operation. Division personnel followed this initial identification with hand-excavations (shovel and trowel) of the structure exterior and interior to define as complete a pattern as possible. Each structure was then mapped using an alidade and plane table. This method, although rather outdated and time consuming, allowed Division personnel to inspect the structure plan-views as they were

drawn in the field. Such accuracy was vital due to the limited amount of time these non-mortuary features were exposed. Excavation of structure features was generally limited to removal of hearth fill. This fill (along with fill from selected postmolds) was removed by trowel and taken back to the Division laboratory for processing using waterscreen and flotation techniques.

Most of the 40Wm210 structures were found across the relatively level terrain located east and north of the building pad (between the low ridge and Little Harpeth River). These structures were usually defined by post patterns and associated features with little to no building refuse. In contrast to this general pattern were several structures marked by striking deposits of daub, burned earth, and charred wood. Division personnel were provided several days to examine one such structure (Structure 2) since this particular building was exposed on the front end of the removal project. Other buildings (Structure 24, for example) were found toward the end of the project when no time was available for extended study.

Structure 2, located immediately adjacent to the northern border of the building pad, was initially defined as an amorphous zone of dark brown soil mixed with daub, burned earth, and charcoal (Figure 10). Division personnel suspected the presence of a burned structure rather than a general midden remnant, and requested the opportunity to evaluate this amorphous zone by hand rather than heavy machinery. Exploration of this zone with shovels and trowels quickly uncovered a concentrated mass of daub rubble. Fragmented ceramic vessels (including a human effigy bottle) were among the items found within this daub layer. Suspicions that this daub layer represented the collapsed walls and roof of a burned structure were confirmed by the discovery of an intact floor just beneath the rubble. Removal of the daub rubble revealed the presence of charred timbers, domestic features, and artifactual remains along the structure floor (see Section IV). Among the artifacts recorded on the floor were a Mississippi Plain jar, a fish effigy bowl, a flake cutting tool, a section of deer antler, and a mass of burned bear and deer bone (Figure 11). A plan map was completed just prior to the resumption of construction activity within the Structure 2 area.

The Division of Archaeology recorded at total of 67 structures within the Brentwood Library construction zone. One-third of these buildings (34%, n=23) were demarcated by complete to nearly complete exterior post patterns. Interior features (such as support posts, puddled-clay hearths, limestone clusters, and infant stone-box burials) were also present in many of these buildings. Partial post patterns defined most of the remaining structure sample. Construction activity did destroy two structures (Structures 58 and 60) prior to evaluation by Division personnel.

Pit features accounted for less than 6% (n=143) of the 2559 non-mortuary feature designations assigned during the burial removal (Appendix B). As mentioned above, most of the Division's time was consumed with defining and mapping structures. As a result, many of the pit features exposed across the construction zone received little attention beyond the initial consultant assessment for human skeletal remains. Division personnel did map the location of all non-mortuary pit features as part of the town plan. Further exploration of pit features (beyond the consultant assessment) comprised removal of the pit fill by shovel and/or trowel, with all fill screened through ¼ " wire mesh. Bulk soil samples were acquired from selected pit features with visible charred floral remains, and taken to the Division laboratory for waterscreen and flotation processing.

Figure 10. Division exploration of Structure 2, August 1997, looking south (library building pad in background).

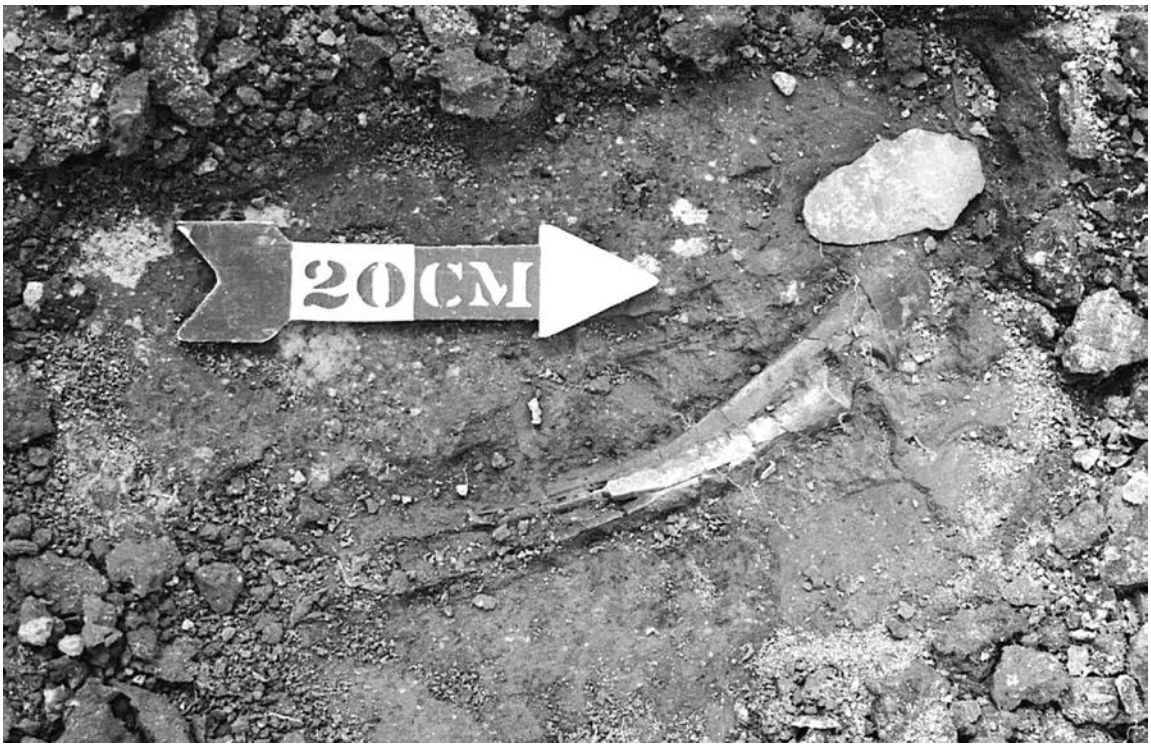

Figure 11. Flake cutting tool with deer radius and ulna, Structure 2 floor, August 1997.

Concluding Remarks

Archaeological projects have surprises that defy logic at times. For Brentwood Library, that time came during the discovery of several modern refuse-filled trenches that had been excavated by a previous landowner. The unconsolidated fill inside these trenches had to be removed before construction activities could resume. One particular trench along the southern construction border (immediately south of Structures 3 and 8) was exceptionally large, measuring roughly 25 meters long and 15 meters wide. As if the oversize syringes and other waste from this somewhat rectangular trench weren't interesting enough, the construction crew also pulled out the bed of a large dump truck. Numerous loads of gravel were needed to fill this particular trench.

Surprises aside, the Brentwood Library removal project was over by the end of November 1997. After four months of salvage excavations, the Division of Archaeology had recorded complete or partial post patterns for 67 structures. In association with these post patterns were 24 hearths, 14 limestone clusters, and 10 ceramic vessels. A total of 143 pit features were also exposed and mapped during the project. In addition, about 80% (n=66) of the 85 human burials uncovered by the stripping operations could not be avoided by construction activity. These remains were removed by the consultant and transferred to the Division of Archaeology for analysis. Upon completion of the analysis, the Division held these remains for reburial in consultation with the Chickasaw Nation. On June 11, 2004, representatives from the Chickasaw Nation reburied the removed individuals on the Brentwood Library grounds.

Figure 12 displays the site map of archaeological features exposed during the 1997 Brentwood Library investigations. Figures 13-21 present the 40Wm210 archaeological features in greater detail. The reader should be aware that Burials 32, 33, 34, and 40 are not included in these figures as they were discovered well outside of the library construction boundary. All four of these burials were left in place.

Discussion of the 1997 project would not be complete without mentioning the impact of this venture on the City of Brentwood and her residents. Previous burial removal projects within middle Tennessee have generated controversy between Native Americans and affected construction interests (Barker 2005; Jones 2001; Moore and Smith 2001). The Brentwood Library project was certainly no exception as the City's decision to remove graves prompted a passionate response from the native community. The issue was debated in city business meetings as well as local newspapers. Several individuals were moved to (peacefully) protest against the City's position at the construction site. Probably the most visible example of native interest was the Chickasaw Nation delegation (including the Lt. Governor) from Oklahoma that arrived on-site to meet City officials and discuss the library project. Extensive media coverage (both newspaper and television) helped keep the Brentwood Library project in the public eye (the BBC, in town for another story, visited the site and filmed a segment that was broadcast around the world). Admittedly caught between a rock and a hard place, the City stood by their original decision to move forward with the library project and subsequent removal of burials that could not be avoided by construction activity.

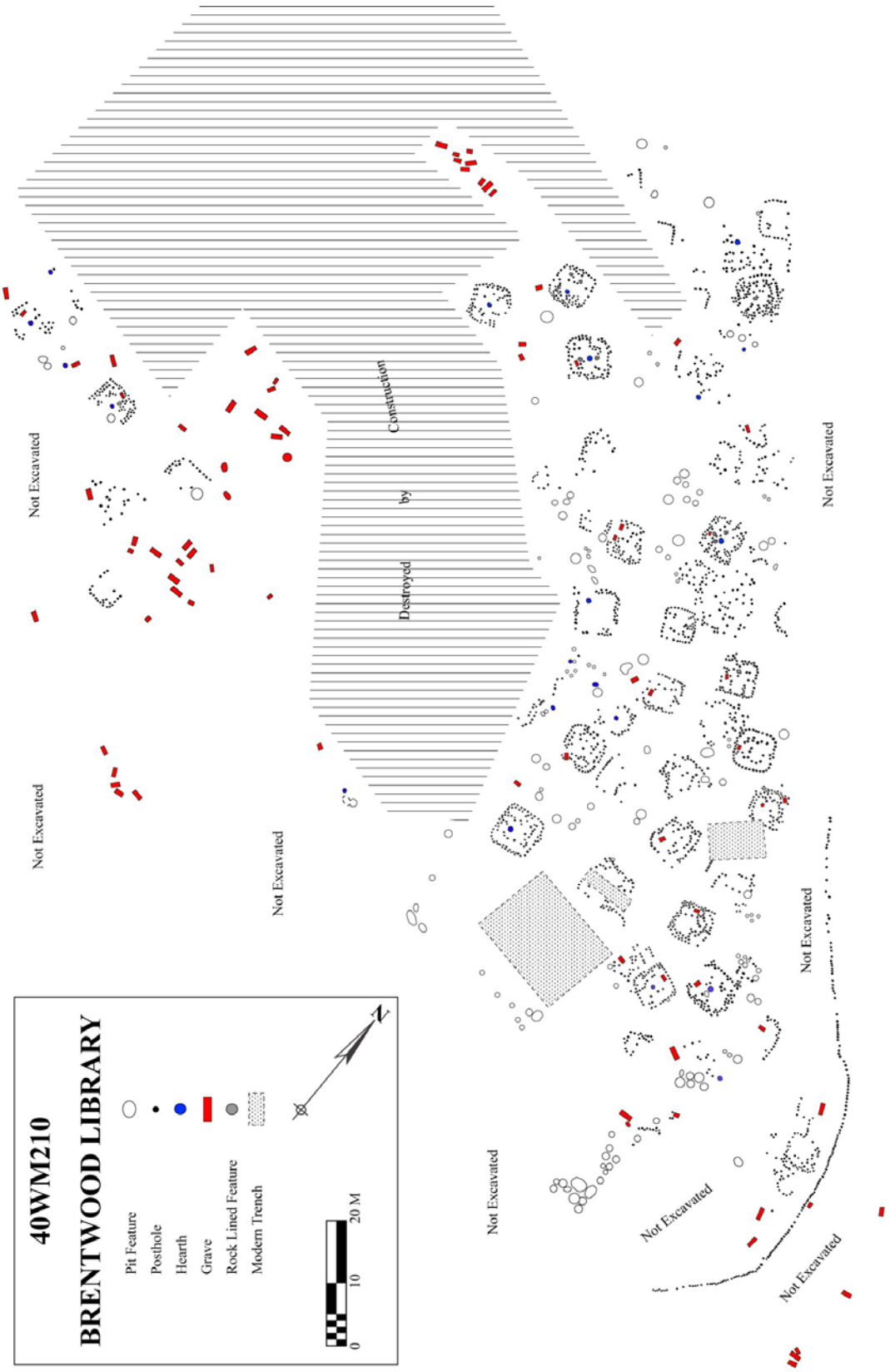

Figure 12. Map of archaeological features from the 1997 Brentwood Library excavations.

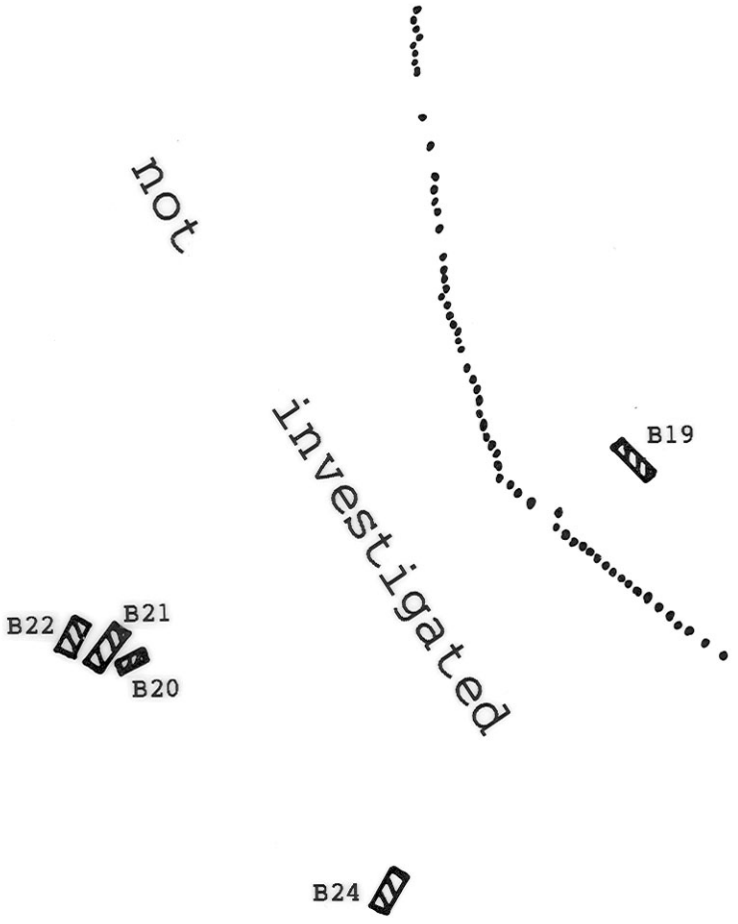

Figure 13. Archaeological features in southeast construction area.

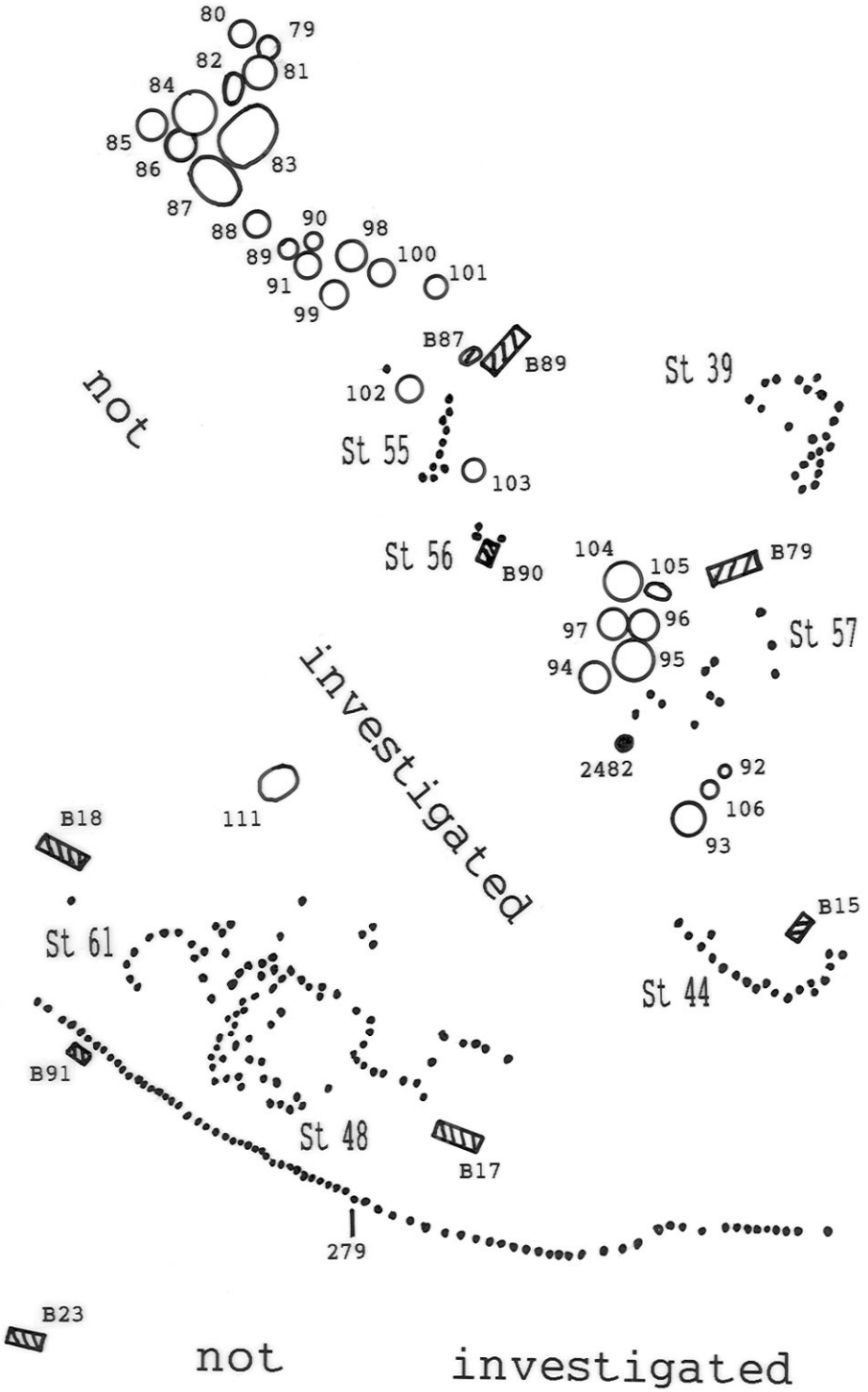

Figure 14. Archaeological features in east construction area.

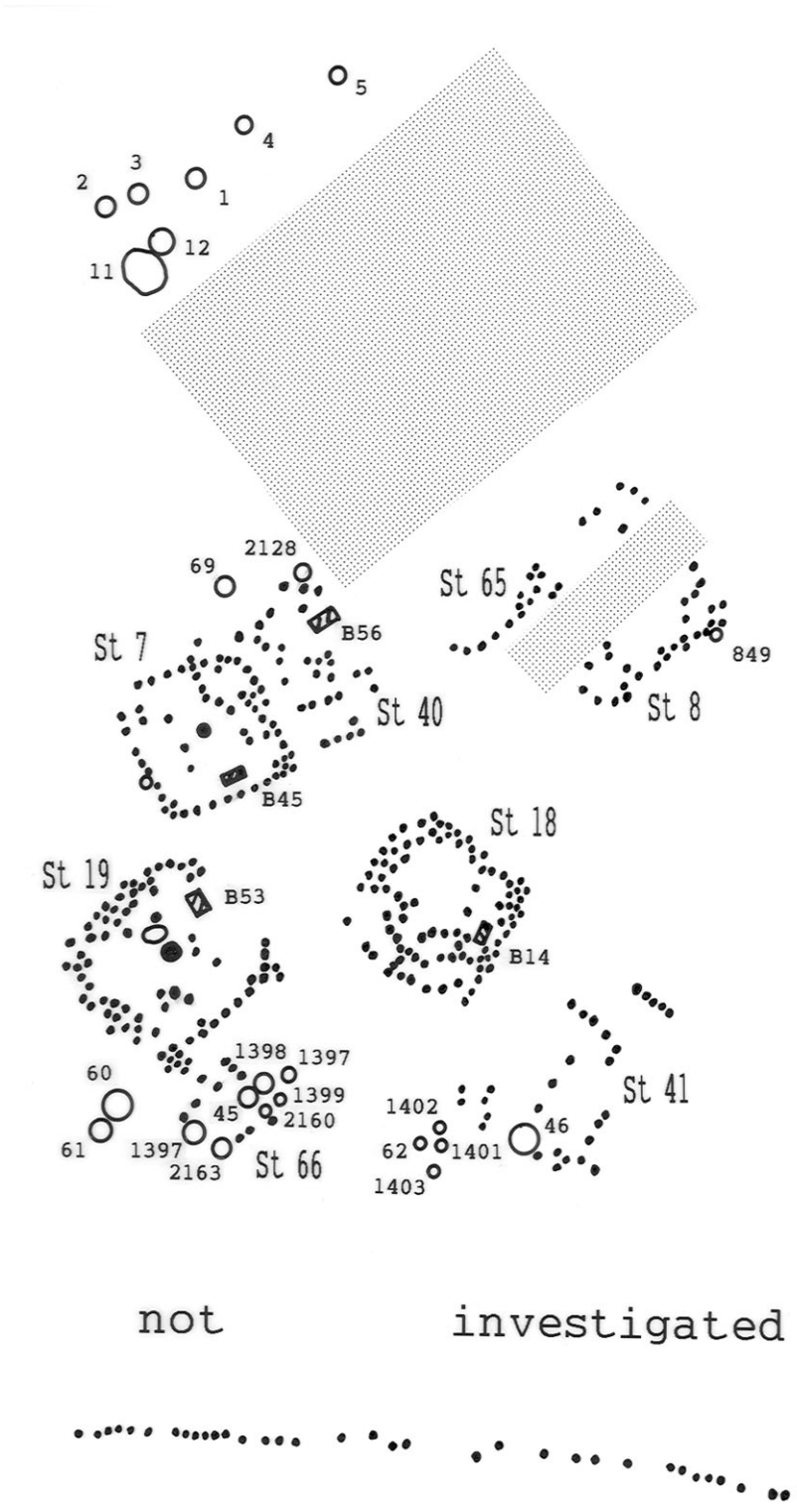

Figure 15. Archaeological features in east construction area.

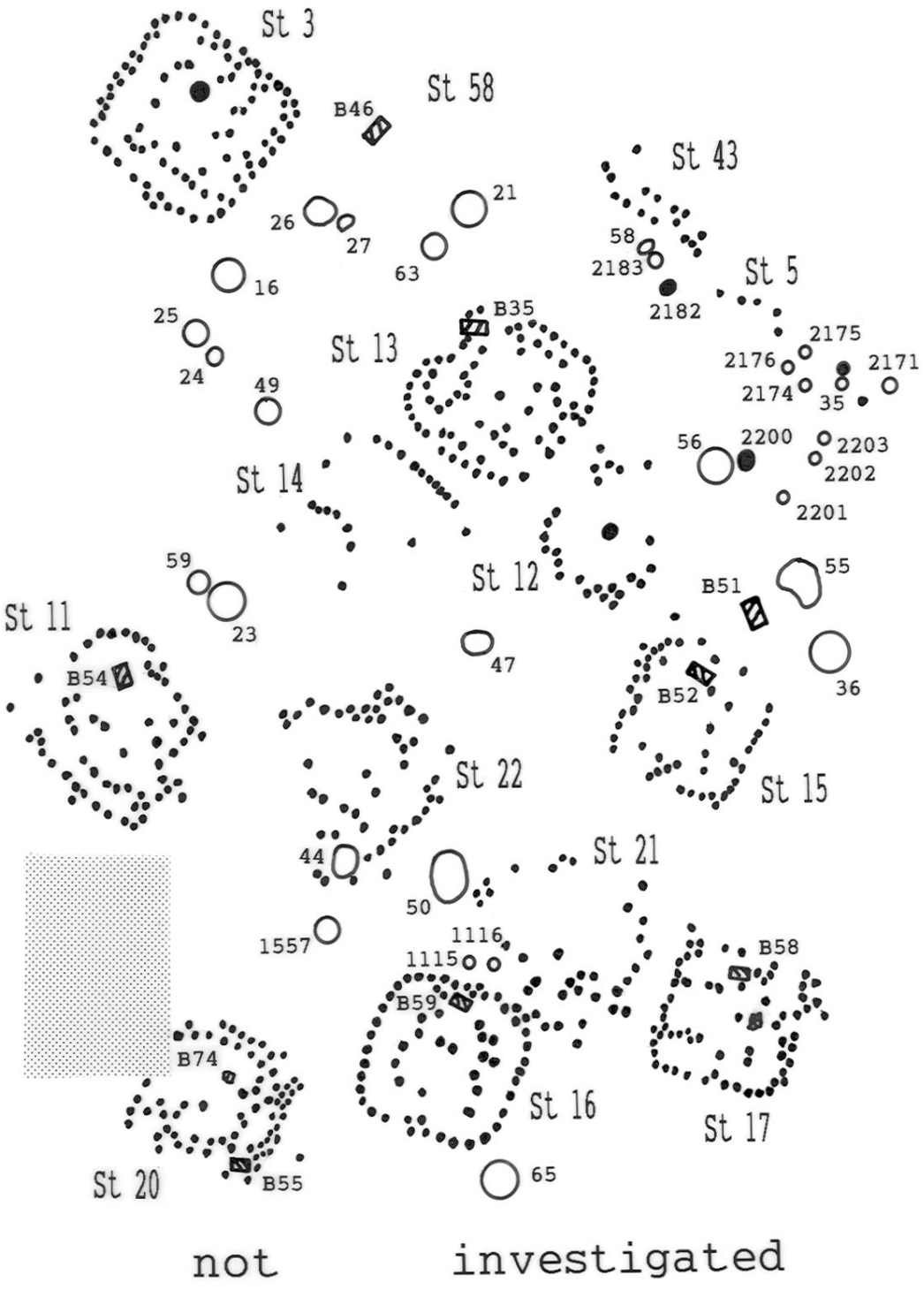

Figure 16. Archaeological features in northeast construction area

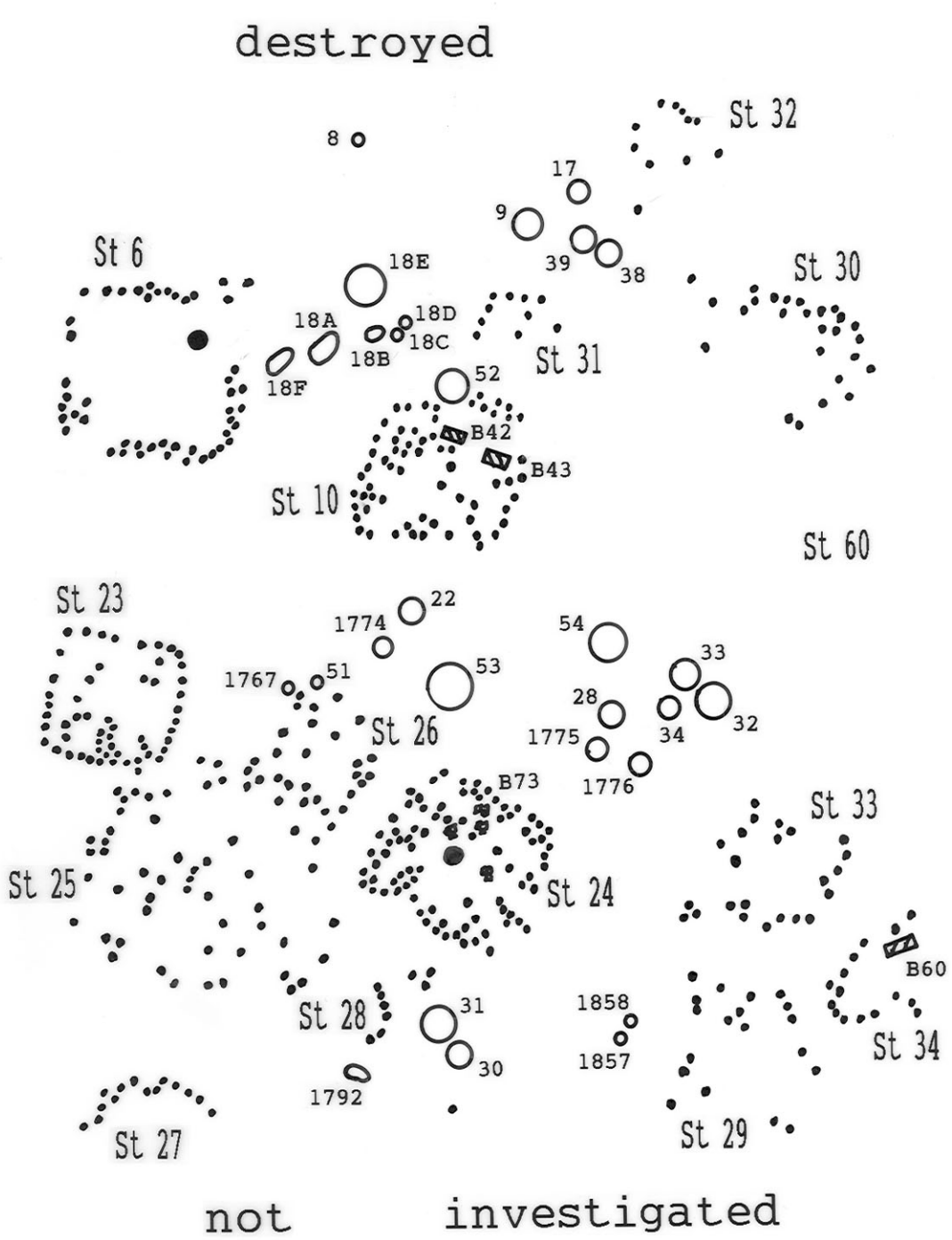

Figure 17. Archaeological features in north construction area.

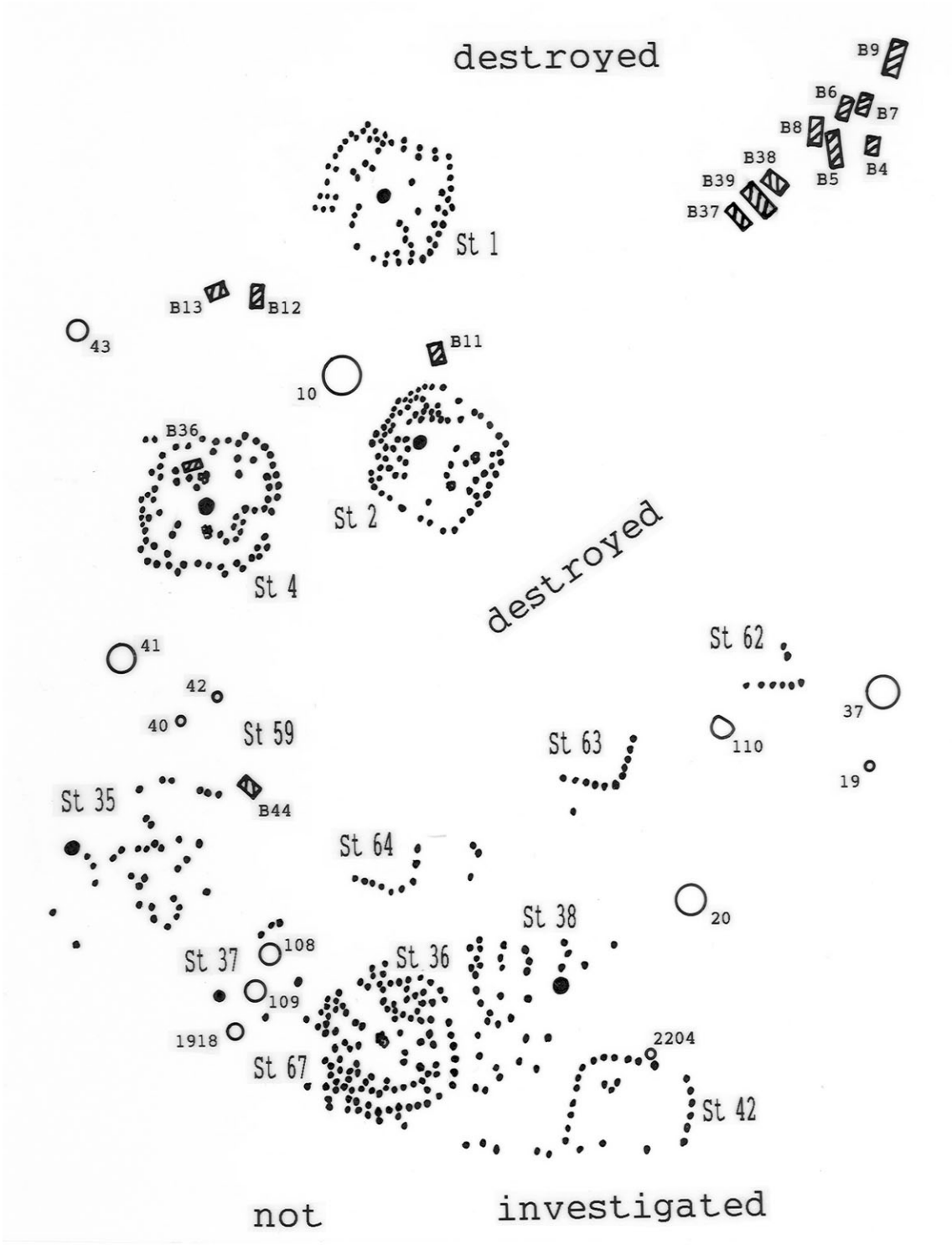

Figure 18. Archaeological features in north construction area.

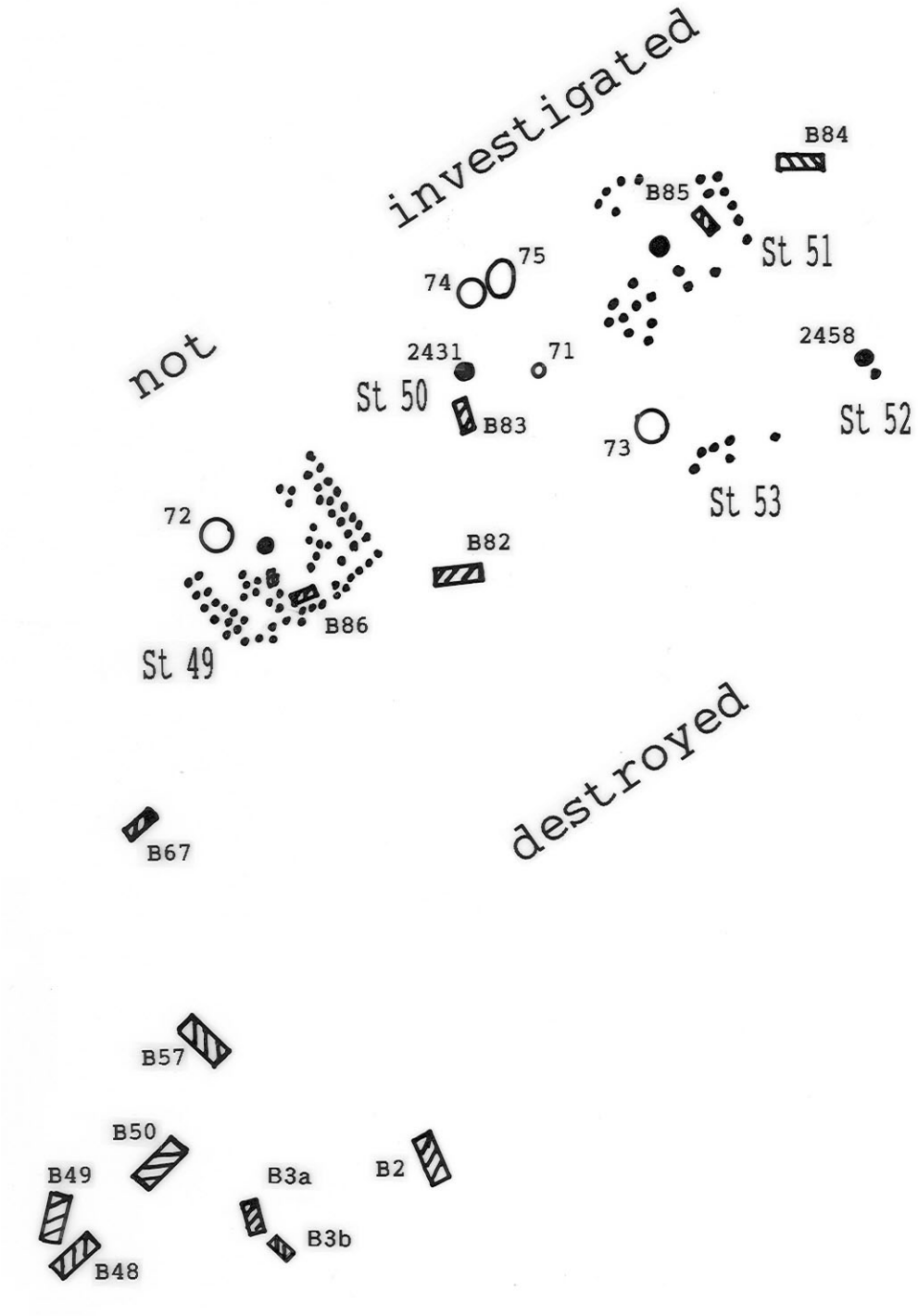

Figure 19. Archaeological features in northwest construction area.

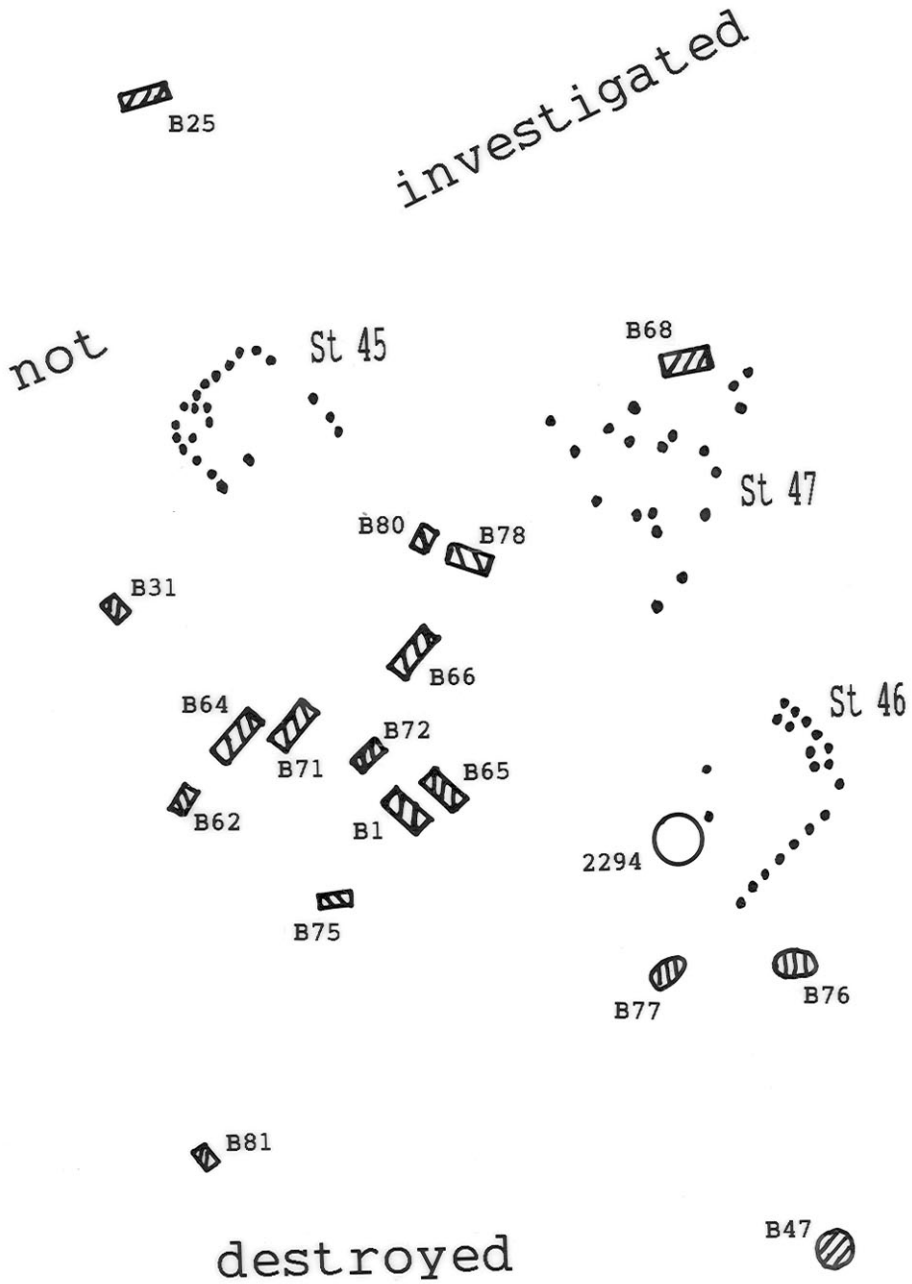

Figure 20. Archaeological features in northwest construction area.

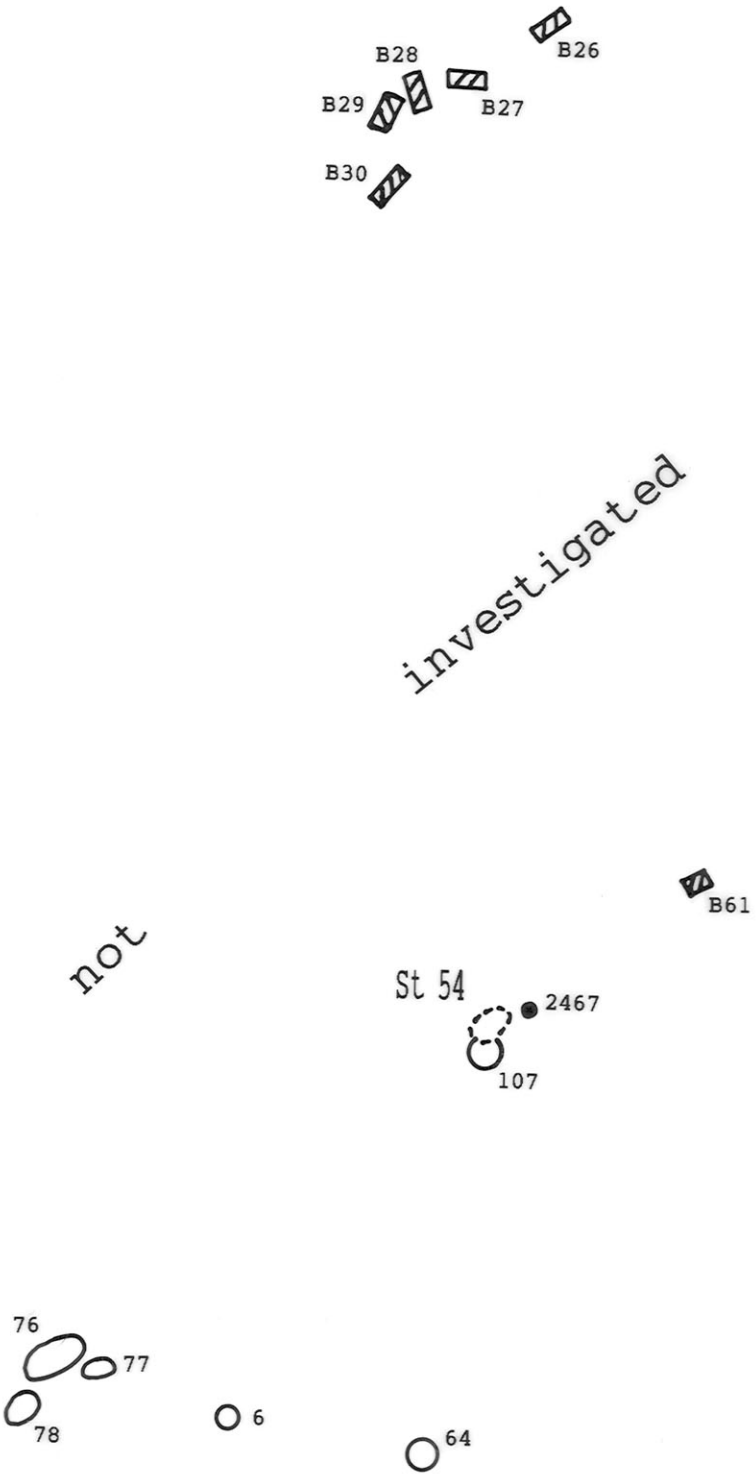

Figure 21. Archaeological features in west construction area.

IV. NON-MORTUARY FEATURES

Michael C. Moore

A total of 2567 feature designations were assigned during the four-month salvage exploration of 40Wm210 (see Appendices A and B). Three designations (Features 7, 29, and 2294) were found to be of historic (or modern) origin. Of the 2564 prehistoric feature designations, five were found to contain human skeletal remains (Features 17, 57, 575, 1444, and 2295). These five features have been included with the other burials in the mortuary analysis (see Section VI and Appendix C).

The remaining 2559 (prehistoric) non-mortuary features comprise the subject of this section. A significant percentage of these features (n=2368, 92.5%) represent posts associated with the 67 structures and two palisade lines uncovered by library construction activity (see Appendix B). Also exposed during the project were 24 hearths, 14 limestone clusters/slabs, and 10 ceramic vessels. Nearly all of these features were associated with the structure post patterns. Over 140 (n=143) pit features were recorded with the structures and palisade lines. As mentioned in Section III, definition of the town plan was the Division's top priority. As a result of this focus, a relatively small percentage of pit features were dug beyond the initial consultant examination for human burials.

Palisades

Two separate palisade lines were documented along the southeastern edge of the proposed library property (Figure 22). Evaluation of the bared post patterns was limited to relatively short sections within the active construction zone. Project and time constraints prevented further assessment of the palisade routes outside the construction area.

Exterior Palisade

Construction activity exposed an approximate 80-meter section of this palisade line (see Figure 22). This particular section consisted of a curvilinear route of postholes measuring 15 cm to 20 cm in diameter. The posts had been placed at 10 cm to 30 cm intervals. Post intervals were wider along the northern end (ranging up to two meters in several places), most likely due to the removal of posts by deeper scraper cuts in this part of the construction zone. As a result of the deeper cuts, nearly all of the remaining postholes along the northern end were shallow remnants measuring several centimeters deep at most.

No bastions were present along this palisade section. This curved segment does represent a corner turn in the palisade route, and marks an eastern boundary of the primary habitation area. Evaluation of the southern route was discontinued once the line ran outside the active construction zone into intact midden deposits. Further delineation of the palisade route (and subsequent destruction of these intact deposits) was deemed unnecessary. Additional investigation of the northern route was hindered by deep cuts from the initial grading activity, as well as the boundary of the active construction zone.

Figure 22. Palisade sections.

Interior Palisade

About ten meters of a second palisade line was discovered six meters west (or inside) of the previously discussed palisade (see Figure 22). The route of this very limited section appears to run somewhat parallel to the exterior palisade, although not enough of this line was exposed to assess its true direction. The postholes were comparable in diameter to the exterior palisade, ranging between 10 cm and 20 cm. In contrast, the post intervals varied from 12 cm to 110 cm.

One bastion was defined by a squarish pattern of postholes protruding northeastward from the palisade line. The bastion post diameters and intervals were somewhat comparable to the palisade wall posts. The northeast side of the bastion (parallel to the palisade line) measured 280 cm long. The northwest and southeast sides measured 220 cm and 180 cm in length, respectively. No interior features were observed with this bastion.

Pits

The Brentwood Library investigations yielded 143 non-mortuary pit features (Table 1). As mentioned before, the consultant examined all pits over 30 cm in diameter to assess whether or not a human burial was present. The standard technique employed by the consultant was to bisect the pit for evidence of human skeletal remains. Those pit features that did not yield skeletal remains received no further attention from

Table 1. Pit Features Recorded During the 1997 Investigations.*

Feature No.	DOA Exam	Diameter	Length	Width	Depth	Artifacts
1	yes	73.0	-	-	10.0	yes
2	yes	84.0	-	-	8.0	yes
3	yes	63.0	-	-	6.0	yes
4	yes	63.0	-	-	9.0	yes
5	yes	57.0	-	-	12.5	yes
6	yes	-	110.0	100.0	-	yes
8	yes	-	28.0	18.0	15.0	yes
9	yes	120.0	-	-	15.0	yes
10	yes	96.0	-	-	10.0	yes
11	yes	-	180.0	160.0	15.0	yes
12	yes	120.0	-	-	20.0	yes
13	no	-	-	-	-	yes
15	no	200.0	-	-	-	yes
16	yes	150	-	-	-	yes
18A	yes	-	150.0	100.0	-	yes
18B	yes	-	90.0	60.0	-	yes
18C	yes	40.0	-	-	-	yes
18D	yes	40.0	-	-	-	yes
18E	yes	-	180.0	160.0	-	yes
18F	yes	-	170.0	65.0	-	yes
19	yes	40.0	-	-	-	yes
20	no	150.0	-	-	-	yes
21	yes	150.0	-	-	-	yes
22	yes	95.0	-	-	-	yes
23	yes	150.0	-	-	-	yes
24	yes	85.0	-	-	-	yes
25/66	no	100.0	-	-	-	yes
26	yes	-	130.0	100.0	-	yes
27	yes	100.0	-	-	-	yes
28	no	100.0	-	-	-	no
30	no	140.0	-	-	-	yes
31	no	100.0	-	-	-	yes
32	no	155.0	-	-	-	yes
33	no	130.0	-	-	-	yes
34	no	85.0	-	-	-	yes
35	yes	45.0	-	-	-	yes
36	no	160.0	-	-	-	yes
37	yes	155.0	-	-	-	yes
38	yes	110.0	-	-	-	yes
39	yes	100.0	-	-	-	yes
40	no	45.0	-	-	-	yes
41	no	-	150.0	130.0	-	no
43	no	90.0	-	-	-	yes
44	yes	-	130.0	110.0	-	yes
46	no	-	120.0	90.0	-	no
47	no	-	110.0	95.0	-	yes
49	no	100.0	-	-	-	yes
50	yes	-	210.0	150.0	-	yes
51	no	55.0	-	-	-	yes
52	no	125.0	-	-	-	no
53	no	200.0	-	-	-	yes
54	no	145.0	-	-	-	yes
55	yes	-	200.0	185.0	-	yes
56	no	-	150.0	130.0	-	yes
58	yes	-	80.0	60.0	19.0	yes
59	yes	100.0	-	-	-	yes
60	yes	120.0	-	-	-	yes
61	no	100.0	-	-	-	yes

Table 1. Pit Features Recorded During the 1997 Investigations.* (continued)

Feature No.	DOA Exam	Diameter	Length	Width	Depth	Artifacts
62	yes	55.0	-	-	-	yes
63	no	100.0	-	-	-	yes
64	no	120.0	-	-	-	yes
65	no	150.0	-	-	-	no
69/2129	no	70.0	-	-	-	yes
70	no	-	-	-	-	yes
71	yes	50.0	-	-	18.0	yes
72	yes	120.0	-	-	-	yes
73	no	100.0	-	-	-	yes
74	no	100.0	-	-	-	yes
75	yes	-	165.0	140.0	35.0	yes
76	yes	-	178.0	130.0	24.0	yes
77	yes	-	120.0	94.0	25.0	yes
78	yes	-	160.0	120.0	24.0	yes
79	no	100.0	-	-	10.0	yes
80	no	100.0	-	-	6.0	yes
81	no	140.0	-	-	14.0	yes
82	no	-	140.0	100.0	30.0	yes
83	yes	-	260.0	200.0	40.0	yes
84	no	130.0	-	-	28.0	yes
85	no	130.0	-	-	16.0	yes
86	no	150.0	-	-	12.0	yes
87	no	-	230.0	140.0	14.0	yes
88	no	100.0	-	-	7.0	yes
89	no	80.0	-	-	16.0	yes
90	no	75.0	-	-	13.0	yes
91	no	100.0	-	-	21.0	yes
92	yes	50.0	-	-	5.0	yes
93	yes	140.0	-	-	13.0	yes
94	no	130.0	-	-	15.0	yes
95	no	180.0	-	-	15.0	yes
96	no	150.0	-	-	14.0	yes
97	no	120.0	-	-	27.0	yes
98	no	130.0	-	-	13.0	yes
99	no	120.0	-	-	15.0	yes
100	no	100.0	-	-	5.0	yes
101	no	80.0	-	-	22.0	no
102	no	-	110.0	85.0	24.0	yes
103	no	90.0	-	-	7.0	no
104	no	170.0	-	-	11.0	no
105	no	-	110.0	70.0	14.0	yes
106	no	70.0	-	-	6.0	no
107	yes	140.0	-	-	20.0	yes
108	no	100.0	-	-	10.0	yes
109	no	100.0	-	-	10.0	yes
110	no	-	125.0	80.0	-	no
111	no	-	160.0	120.0	-	no
694	no	35.0	-	-	-	no
849	no	35.0	-	-	-	no
1115	no	34.0	-	-	-	no
1116	no	38.0	-	-	-	no
1390	no	-	100.0	70.0	-	no
1397	no	-	88.0	75.0	-	no
1398	no	-	90.0	65.0	-	no
1399	no	-	65.0	55.0	-	no
1400	no	38.0	-	-	-	no
1401	no	-	48.0	38.0	-	no
1402	no	-	40.0	30.0	-	no

Table 1. Pit Features Recorded During the 1997 Investigations.* (continued)

Feature No.	DOA Exam	Diameter	Length	Width	Depth	Artifacts
1403	no	40.0	-	-	-	no
1557	no	100.0	-	-	-	no
1767	no	-	45.0	30.0	-	no
1774	no	80.0	-	-	-	no
1775	no	100.0	-	-	-	no
1776	no	100.0	-	-	-	no
1792	no	-	80.0	50.0	-	no
1857	no	35.0	-	-	-	no
1858	no	35.0	-	-	-	no
1918	no	75.0	-	-	-	no
2128	no	45.0	-	-	-	no
2160	no	30.0	-	-	-	no
2163	no	60.0	-	-	-	no
2171	no	40.0	-	-	-	no
2174	no	30.0	-	-	-	no
2175	no	30.0	-	-	-	no
2176	no	40.0	-	-	-	no
2183	no	90.0	-	-	-	yes?
2201	no	35.0	-	-	-	no
2202	no	40.0	-	-	-	no
2203	no	40.0	-	-	-	no
2204	no	35.0	-	-	-	no
2250	no	75.0	-	-	-	no
2251	no	75.0	-	-	-	no

* = measurements in cm.

the consultant. Any artifacts found during the consultant investigation were bagged and left in the feature for Division personnel to collect. The Division mapped all of the non-mortuary pit features as part of the town plan. However, no formal profile maps or forms were filled out for these features due to time constraints. In addition, less than one-third (32.2%, n=46) of these pits were completely excavated. Sorting these non-mortuary pit features into standard functional categories (such as storage, refuse disposal, or borrow) would be problematic given the sporadic scrutiny they received.

Structures

The search for human burials exposed the outlines of (at least) 67 structures (see Figure 12). Over one-third (n=23) of these structures (Structures 1, 2, 3, 4, 6, 7, 8, 10, 11, 13, 15, 16, 17, 18, 19, 20, 23, 24, 36, 42, 45, 49, and 51) were complete or near-complete examples of classic Mississippian architecture. Partial walls and/or corner sections defined Structures 5, 14, 27, 34, 44, 46, 55, 62, 63, 64, and 65. Buildings represented by indistinct post patterns and/or interior features include Structures 28, 29, 32, 37, 47, 50, 52, 53, 56, and 66. Construction activity destroyed two structures (Structures 58 and 60) prior to being mapped. Both structures had been clearly observed during the initial burial stripping operations.

All of the 40Wm210 structures were of simple post construction. No examples of trench architecture were observed during the investigations. Two structures (Structures 2 and 24) displayed extensive daub rubble on top of intact interior features. Over one-half of the structures (n=35) contained an intact interior feature (hearth, limestone cluster, and/or stone-box burial) or *in situ* artifact (ceramic vessel, stone tool, or animal bone). One building (Structure 54) yielded an intact section of a puddled-clay floor.

Structure 1 (Figure 23)

Construction: Post.

Plan View: Square with somewhat rounded corners.

Wall Dimensions: 6.0 meters to 6.3 meters.

Wall Post Diameter: Range from 10 cm to 27 cm.

Wall Post Interval: Range from 15 cm to 60 cm.

Interior Support Post Diameter: Range from 20 cm to 30 cm.

Key Features: One central hearth (Feature 112), northwest center support post (Feature 148), northeast center support post (Feature 150), southeast center support post (Feature 153), southwest center support post (Feature 159).

Remarks: Structure 1 represents a building of typical Mississippian design exposed within the northwest site area immediately adjacent to the library building construction pad. A small portion of the east corner was not visible, and may have been removed by previous earthmoving activity. This nearly complete structure occurs about three meters southwest of Structure 2 and five meters west of Structure 4.

The shallow remnant of a circular puddled-clay hearth (Feature 112) was present in the structure center. This basin-shaped remnant measured 40 cm in diameter. Also observed were four center support posts (Features 148, 150, 153, and 159) ranging from 20 cm to 30 cm in diameter. The northeast center support post (Feature 150) measured 30 cm in diameter and 38 cm deep. Two somewhat smaller posts (Features 154 and 155) had been placed just east of the southeast center support post (Feature 153) in a linear fashion. These two posts may have served as

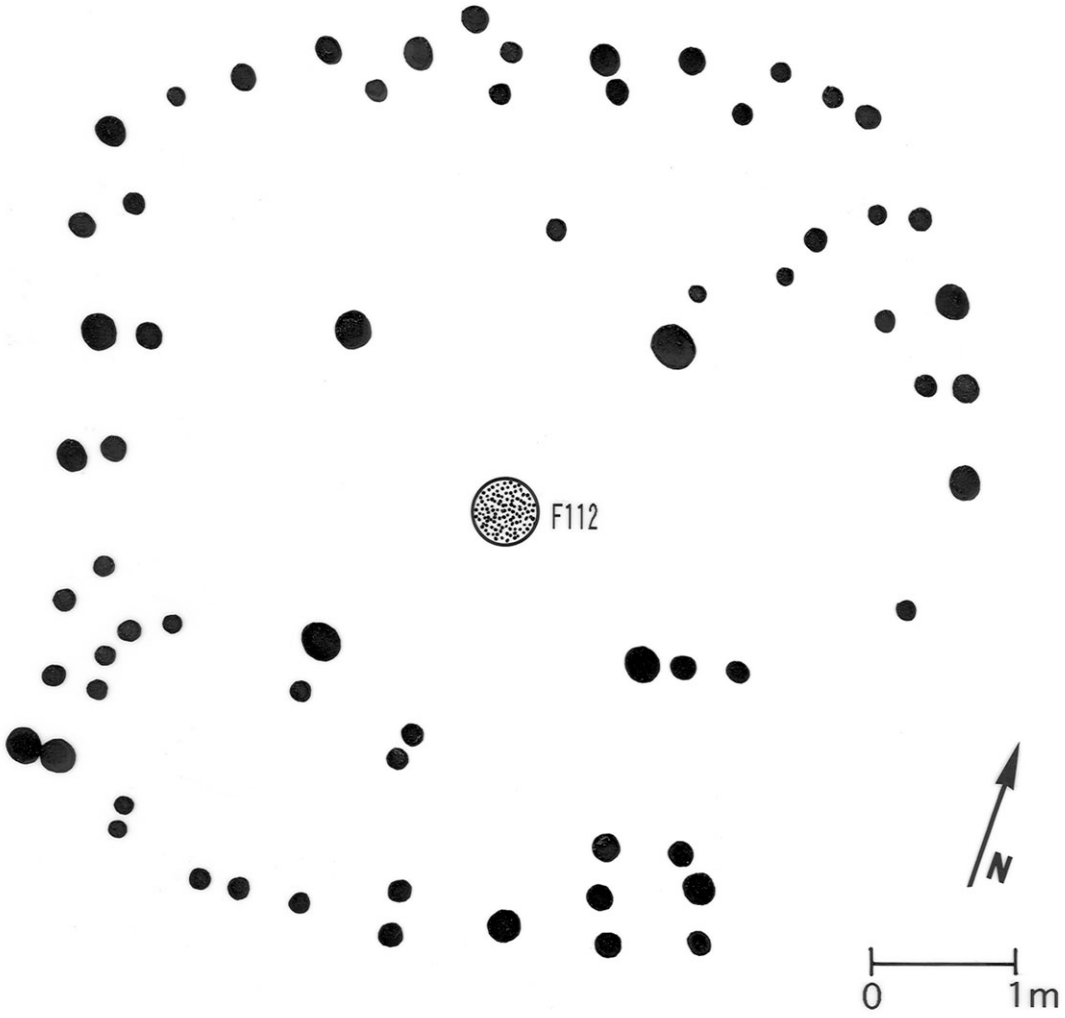

Figure 23. Structure 1 plan-view.

additional support, or possibly as a screen or partition. Two rows of posts along the west wall indicate that some type of refurbishing activity was necessary. No human burials were present within the structure interior.

Structure 2 (Figures 10, 11, and 24)

Construction: Post.

Plan View: Square with rounded corners.

Wall Dimensions: 6.3 meters.

Wall Post Diameter: Range from 8 cm to 18 cm, with the vast majority between 10 cm and 15 cm.

Wall Post Interval: Range from 20 cm to 50 cm along the northern two-thirds of the structure, with a much smaller interval (generally 10 cm to 30 cm) along the southern one-third.

Interior Support Post Diameter: Suspected support posts within the southern half of the structure (Features 442, 457, and 458) range from 12 cm to 18 cm.

Key Features: One interior hearth (Feature 193), burned tabular limestone slabs (Features 188 and 189).

Remarks: This structure was one of several buildings initially defined by a layer of daub rubble just under the ground surface (see Figure 10). Underneath this rubble were intact interior features and *in situ* artifacts. This structure obviously burned and collapsed prior to being abandoned.

Repairs had been made to much of the southern wall, and possibly a small section of the northern wall. Numerous interior posts within the southern half of Structure 2 likely comprise the remains of partitions and screens (for the hearth?).

The interior hearth (Feature 193) was not located in the structure center, but off-center about 1.75 meters north of the southern wall. In addition, this hearth was not constructed of puddled-clay like those found in most of the other structures. The Structure 2 hearth consisted of a circular basin (about 50 cm in diameter) that was heavily burned to a deep reddish-purple color.

Two tabular limestone slabs were found in the northern portion of the structure. These specimens measured 28 cm by 20 cm (Feature 188, west) and 40 cm by 25 cm (Feature 189, east). Both slabs were burned, although this could have happened during the structure fire. The use of these slabs has yet to be determined. Possibilities to date range from seats to serving griddles to some type of base supports.

A number of artifacts were discovered within the daub rubble layer as well as on the structure floor. Selected artifacts recovered from the rubble include four ceramic vessels (one hooded bottle, one probable fish effigy bowl, and two unidentified vessels), one clay bead, and one ceramic earplug. The structure floor yielded a fish effigy bowl and Mississippi Plain jar. Two additional vessels from the floor (Mississippi Plain jars) were removed by heavy machinery and could not be precisely relocated. The northeast corner of the structure contained a mass of bone, including bear (probable paw). Also part of this bone mass was a deer radius and ulna next to a flake cutting tool (see Figure 11). A deer antler was found just west of the bone mass.

Structure 3 (Figures 25, 26, and 27)

Construction: Post.

Plan View: Square with rounded corners.

Wall Dimensions: 7.0 meters.

Wall Post Diameter: Range from 10 cm to 22 cm, with most between 13 cm to 18 cm.

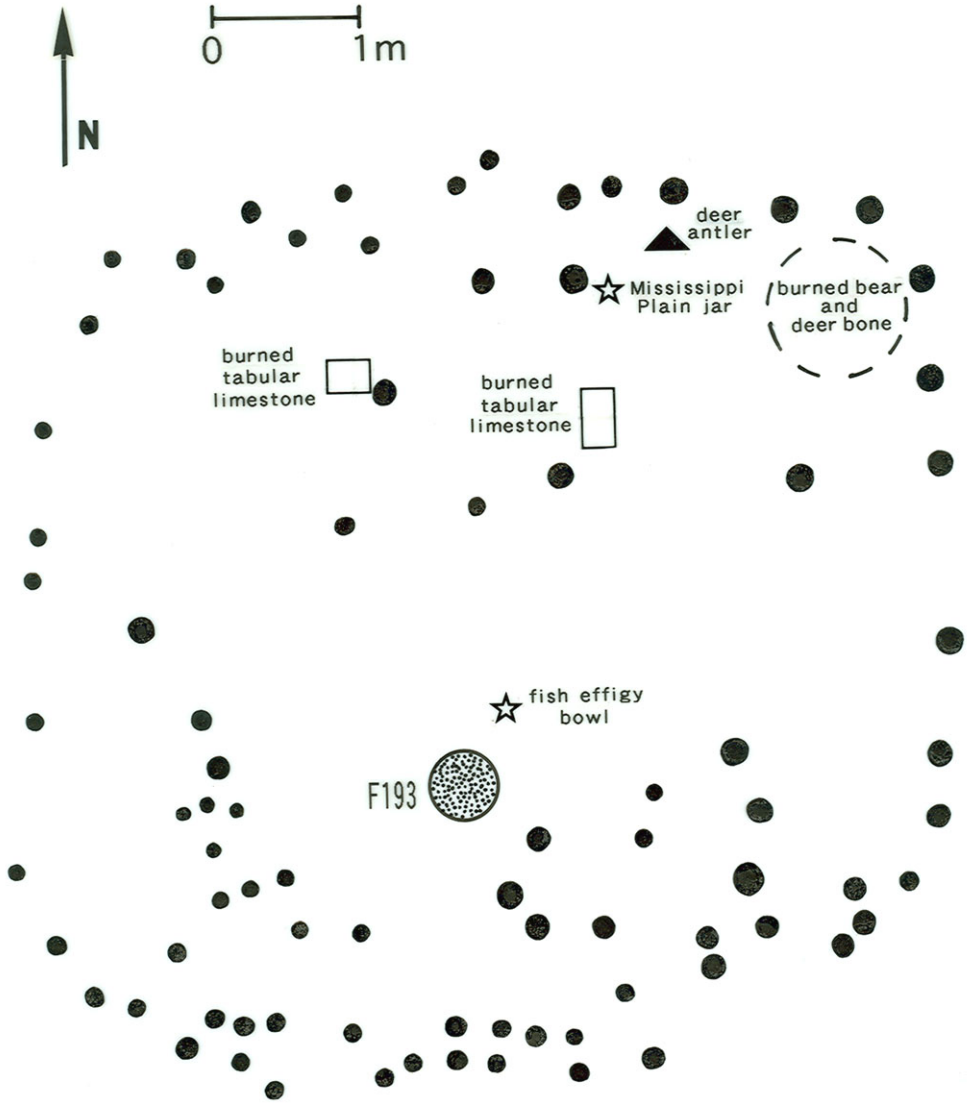

Figure 24. Structure 2 plan-view.

Wall Post Interval: Range from 20 cm to 60 cm.
Interior Support Post Diameter: Probable support posts (Features 497, 500?, 501, 502, 550, 551, 554, 555, 556) range from 22 cm to 30 cm.
Key Features: One interior hearth, Feature 519 (Figure 27).
Remarks: Structure 3, exposed near the southeastern edge of the library building pad, was the largest structure exposed across the site area (Figure 25). A close examination of the post pattern reveals this building was initially of average dimensions (5.5 meters), and later expanded to its present size. An outward extension of the eastern wall included refurbishing the northern and southern walls. The building expansion required the relocation of interior support post patterns. Features 550, 554, and either 501 or 502 were the likely supports for the original structure. The original northeast support post was not clearly defined (possibly Feature 500?). As the eastern wall was extended, several new support posts (Features 497, 555, either 501 or 502, and possibly 556) were necessary.

Figure 26 denotes the Structure 3 hearth as off-center about two meters east of the west wall. This hearth was somewhat more central within the original structure, but still west of center. Figure 18 presents a profile of this hearth, and illustrates two construction episodes. The original hearth consisted of a circular basin (at least 56 cm in diameter) lined with puddled-clay. At some point (expansion of the east wall?), the basin was filled and the hearth was refurbished with a new lining of puddled-clay.

Figure 25. Structure 3 exposed in field, looking northeast.

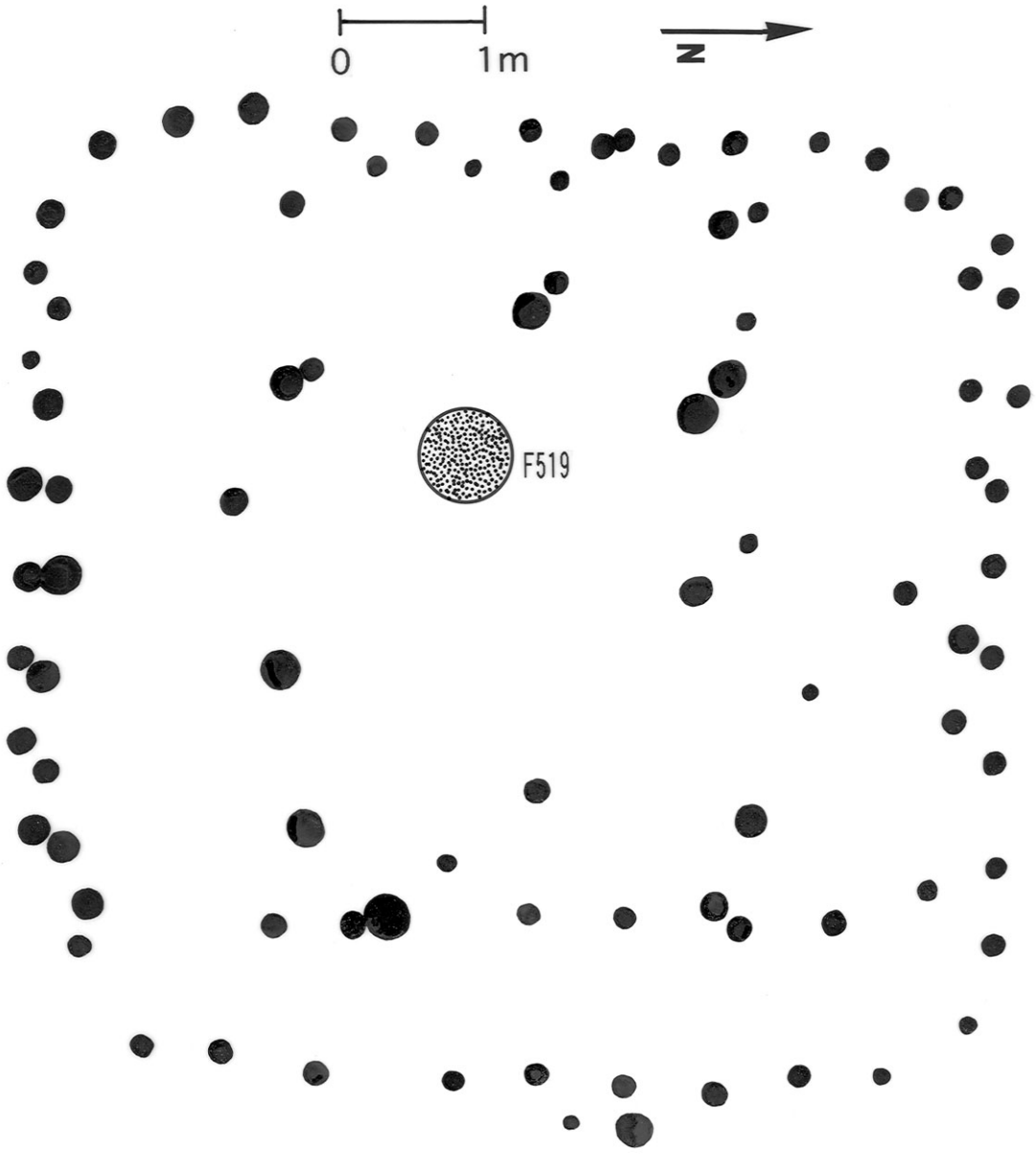

Figure 26. Structure 3 plan-view.

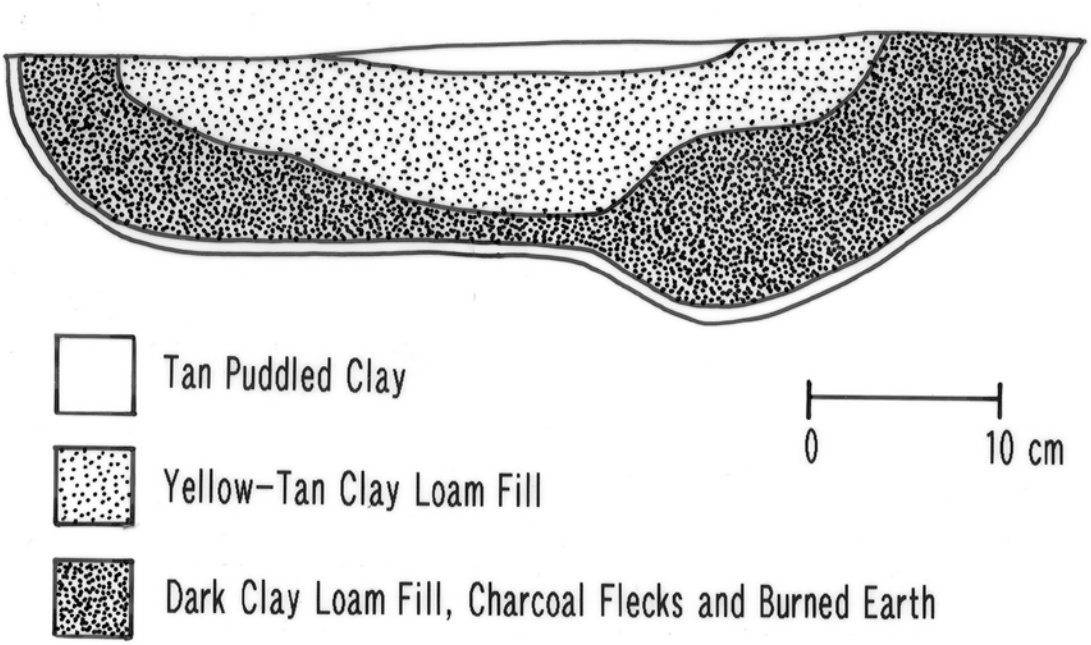

Figure 27. Structure 3 hearth, east profile.

Structure 4 (Figures 28 and 29)

Construction: Post.

Plan View: Square with rounded corners.

Wall Dimensions: 6.2 meters to 6.5 meters.

Wall Post Diameter: Range from 10 cm to 20 cm, with most between 12 cm to 16 cm.

Wall Post Interval: Range from 15 cm to 60 cm.

Interior Support Post Diameter: Features 580, 597, 599, 619, 620, 634, and 637 range from 20 cm to 26 cm.

Key Features: One central hearth (Feature 572), one stone-box grave (Burial 36), and two limestone clusters (Features 573 and 574).

Remarks: This structure occurs about four meters southeast of Structure 2. The Structure 4 plan-view appears somewhat lopsided (Figure 28). A closer look indicates this building sustained a very slight shift in orientation during (at least one) refurbishing episode. Each wall was rebuilt to some degree, and the position of several center support posts has been altered.

Roughly circular in plan-view, the hearth (Feature 572) was established in the structure center. This particular puddled-clay hearth measured 45 cm in diameter, and featured a more conical profile (see Figure 29). The fill was composed entirely of ash.

Two clusters of burned limestone rocks (Features 573 and 574) were exposed on the structure floor. Both clusters consisted of limestone rocks stacked in a somewhat circular manner. Feature 573 was located one meter northeast of the central hearth, whereas Feature 574 was positioned on the southwest (opposite) side of the hearth at a distance of 1.2 meters. These settings placed each cluster between (or in line with) the central support posts. Limestone clusters were defined within several other

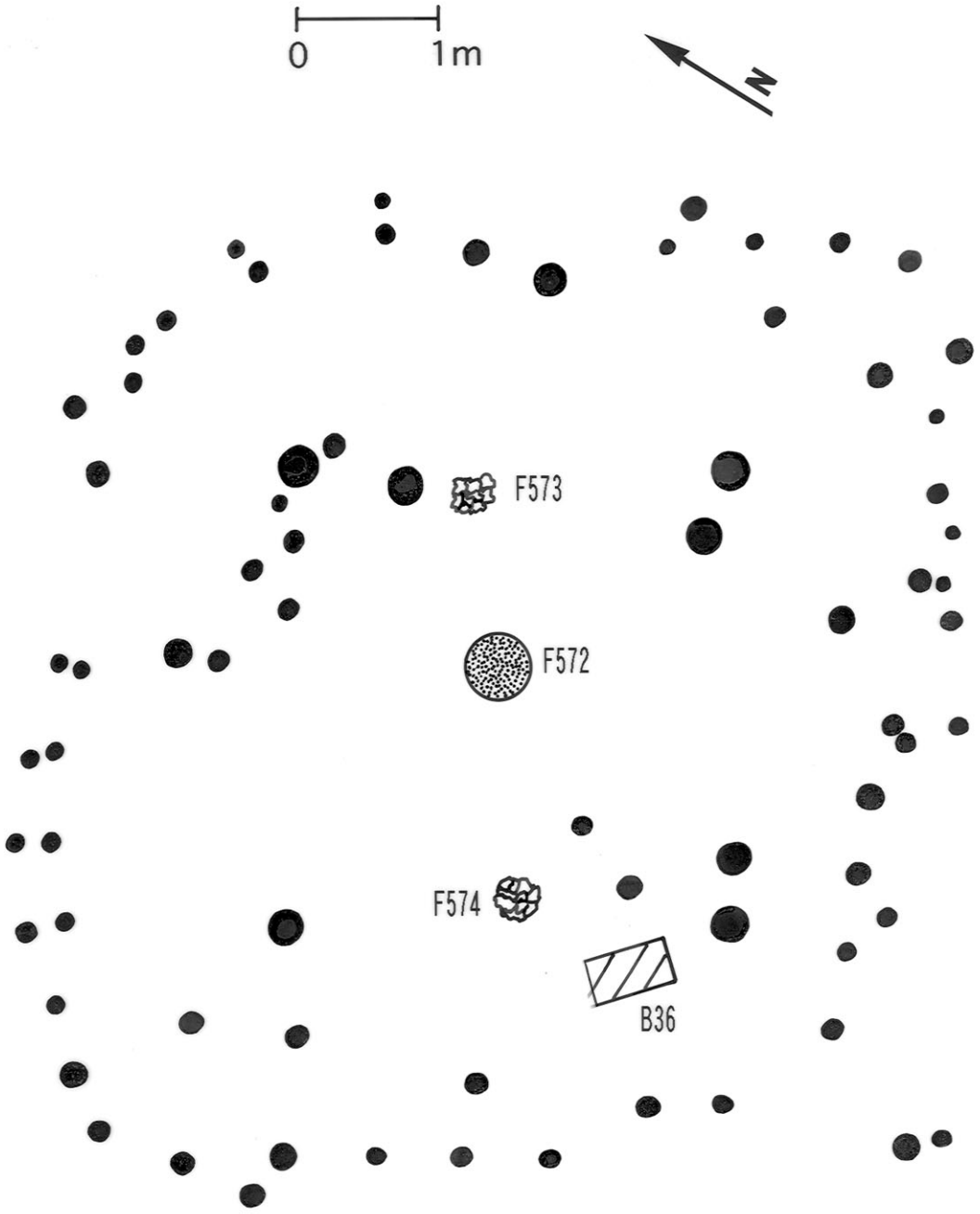

Figure 28. Structure 4 plan-view.

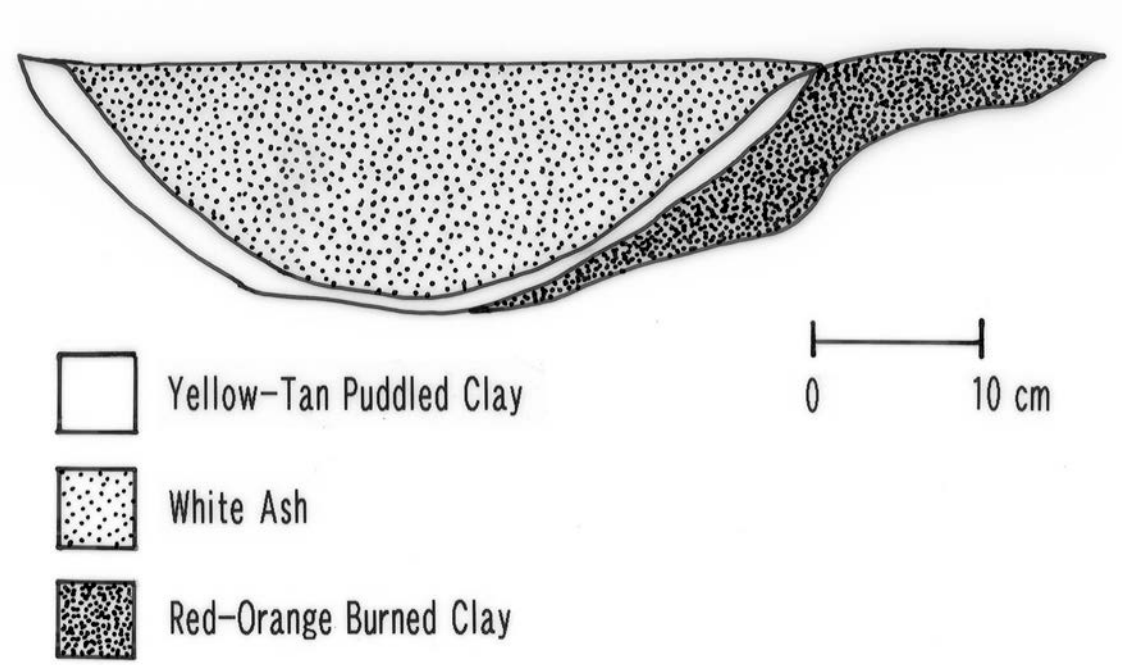

Figure 29. Structure 4 hearth, east profile.

structures across the site (Structures 17, 18, 24, 36, 49, 59). Similar features have been documented at other study area sites (Smith and Moore 1994).

One stone-box grave (Burial 36) was found in the southern corner of Structure 4. This infant burial yielded no associated grave goods.

Structure 5

Construction: Post.
Plan View: Unknown, partial structure.
Wall Dimensions: Unknown.
Wall Post Diameter: Unknown.
Wall Post Interval: Unknown.
Interior Support Post Diameter: Unknown.
Key Features: One hearth (Feature 2182).
Remarks: One hearth and five postholes immediately adjacent to the building pad defined this structure. Construction activity hindered the identification of prehistoric features within this area of the site. Feature 2182 was first noted rather early in the investigation, but project constraints prevented serious evaluation until much later. This somewhat circular, clay-lined feature measured 45 cm in diameter.

Structure 6 (Figure 30)

Construction: Post.
Plan View: Square with rounded corners.
Wall Dimensions: 6.7 meters to 6.9 meters.
Wall Post Diameter: Range from 11 cm to 23 cm, with most from 15 cm to 18 cm.
Wall Post Interval: Range from 20 cm to 90 cm, with 20 cm to 45 cm most common.

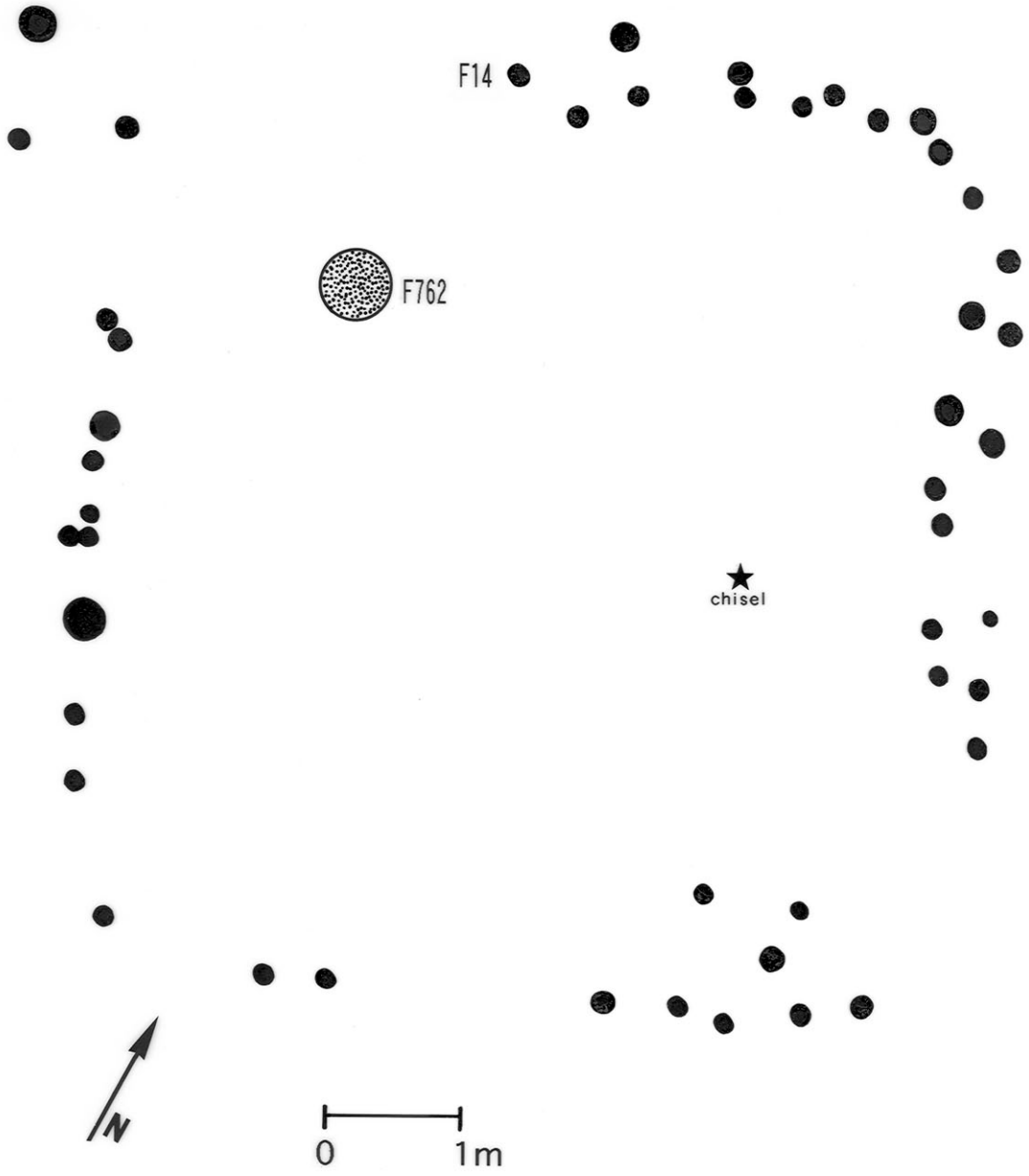

Figure 30. Structure 6 plan-view.

Interior Support Post Diameter: None observed.
Key Features: One interior hearth (Feature 762) and wall post (Feature 14).
Remarks: Structure 6 was defined about eight meters north of Structure 5, adjacent to the building pad. In contrast to the visible exterior walls, this large building yielded only one interior feature (hearth) near the west corner. No interior support posts were exposed. This absence is admittedly puzzling, as this was the only rather completely defined structure across the site to have such a result. It is possible (although unlikely) that stripping associated with the burial removal project removed all evidence of interior supports prior to Division mapping.

Structure 6 represents the second largest building (6.7 to 6.9 meters) recorded at the site next to Structure 3 (7.0 meters). However, Structure 6 appears to have been originally built this size, whereas Structure 3 was refurbished to its present size.

As mentioned above, a hearth (Feature 762) had been constructed in the structure's west corner. Measuring 50 cm in diameter, only a remnant of the base was present.

One artifact, a chisel fragment of local chert, was recovered from the structure floor. This item was found near the east wall. One other artifact of note, a skull effigy (from a bowl, probably non-local), was retrieved from the fill of an exterior wall post (Feature 14).

Structure 7 (Figure 31)
Construction: Post.
Plan View: Square with rounded corners.
Wall Dimensions: 5.7 meters.
Wall Post Diameter: Range from 11 cm to 20 cm, most from 13 cm to 16 cm.
Wall Post Interval: Range from 10 cm to 80 cm, most from 20 cm to 40 cm.
Interior Support Post Diameter: Features 669 (north), 690 (east), and 702 (south) measure 25, 20, and 19 cm, respectively.
Key Features: One central hearth (Feature 651), one stone-box grave (Burial 45), north central support post (Feature 669), east central support post (Feature 690), and south central support post (Feature 702).
Remarks: This structure occurs within the southeast site area just south of Structure 18, southwest of Structure 19, and northwest of Structure 39. The northeast corner of Structure 40 partially overlaps the southwest corner of Structure 7.

Structure 7 represents yet another classic example of Mississippian architecture, complete with central hearth, three of four central support posts, and an infant grave. No obvious repairs are evident, although the northwest wall does have several posts placed in a parallel manner along the interior.

A circular ring of puddled clay measuring 40 cm in diameter denoted the central hearth (Feature 651). Although a significant portion of the hearth had been scraped away, this basin-shaped feature did yield four to five centimeters of fill loaded with organic material (black with wood charcoal and ash).

The stone-box (Burial 45) had been placed near the structure wall. This grave yielded the poorly preserved remains of an infant, along with an impressive hooded, human-effigy bottle.

Structure 8 (Figure 32)
Construction: Post.
Plan View: Square with rounded corners.
Wall Dimensions: 6.5 meters.
Wall Post Diameter: Range from 10 cm to 20 cm.

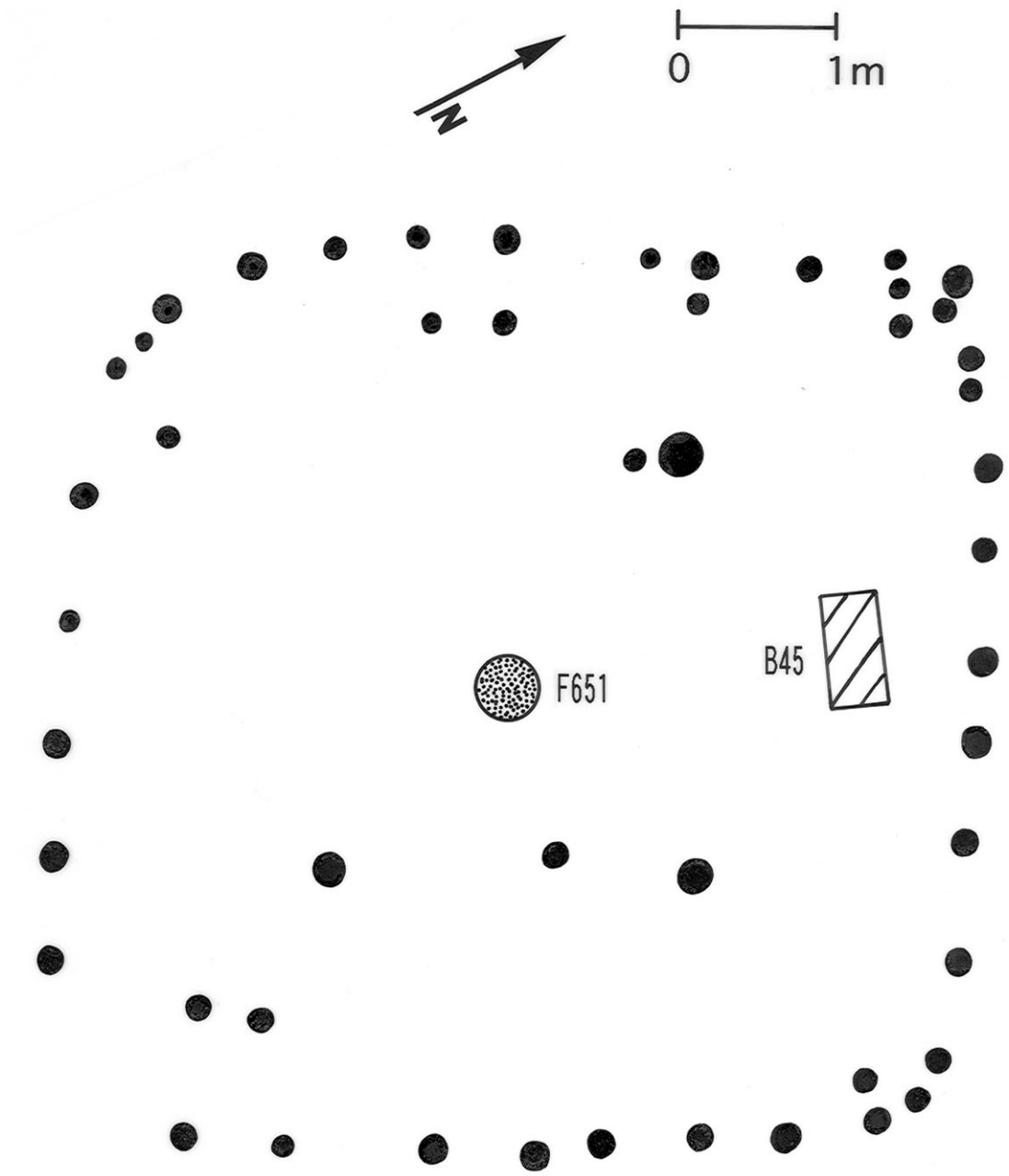

Figure 31. Structure 7 plan-view.

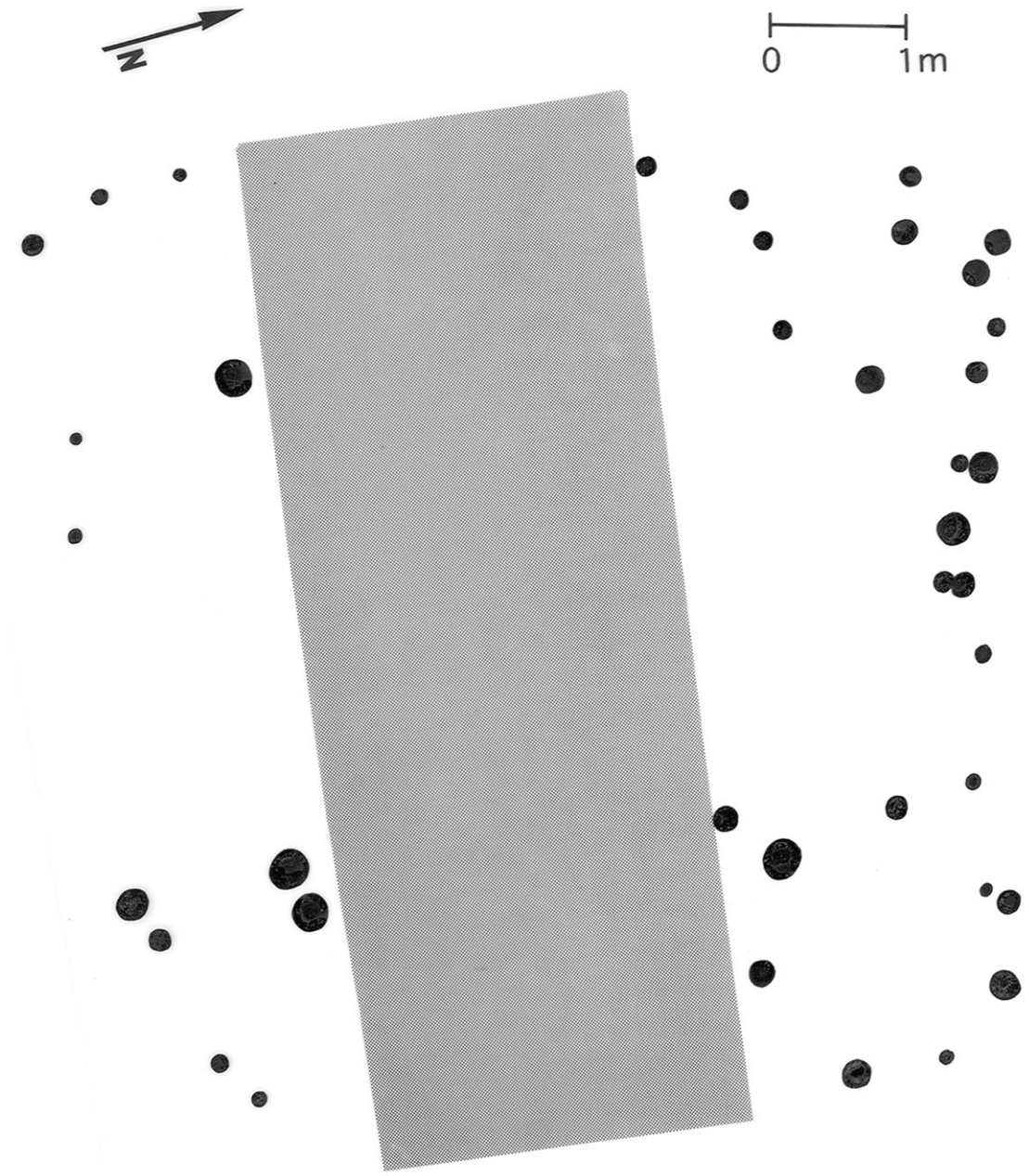

Figure 32. Structure 8 plan-view. Note modern trench disturbance.

Wall Post Interval: Range from 20 cm to 80 cm, with most between 30 cm to 50 cm.
Interior Support Post Diameter: Feature 836 (northeast) measures 28 cm; Features 866 and 867 (southeast) measure 27 and 25, respectively; and Feature 856 (southwest) measures 28 cm.
Key Features: Northeast central support post (Feature 836), southeast central support posts (Features 866 and 867), and southwest central support post (Feature 856). Remaining interior features destroyed by modern dumping activity.
Remarks: Excavation of a trench (by the previous landowner) to dump modern waste completely destroyed most of the Structure 8 interior, along with portions of the east and west exterior walls. Fortunately, three of the four central support posts were still intact. The south exterior wall post pattern was intermittent, and may have been partially removed by grading activity associated with the library construction. Refurbishing activity was apparent along the north exterior wall.

Structure 9
Construction: Unknown.
Plan View: Unknown.
Wall Dimensions: Unknown.
Wall Post Diameter: Unknown.
Wall Post Interval: Unknown.
Interior Support Post Diameter: Unknown.
Key Features: One hearth (Feature 2200).
Remarks: This structure was defined early in the burial removal program by a hearth exposed just east of the library building pad. No other features (such as postholes or burials) were observed in the immediate vicinity. Project concerns initiated a decision to come back and evaluate this particular location at some future time. Additional investigations conducted toward the end of the project failed to locate any associated features with the hearth. Given the results of this later investigation, the initial identification of this hearth as part of a structure may not be valid. Although this hearth area had been disturbed by construction activity, some structural evidence should have been recorded.

Feature 2200 represented a somewhat oval concentration of charcoal, burned earth, and daub. This hearth was larger (70 cm by 50 cm) and more irregular in outline than the other site hearths. Intermittent sections of the hearth displayed a thin, bright yellow layer of burned clay. However, most of the hearth was unprepared. This feature exhibited rather straight walls, and an irregular to flat base in profile.

Structure 10 (Figure 33)
Construction: Post.
Plan View: Square with rounded corners.
Wall Dimensions: 6.0 meters.
Wall Post Diameter: Range from 9 cm to 22 cm, with most from 13 cm to 18 cm.
Wall Post Interval: Range from 10 cm to 70 cm, with most from 20 cm to 40 cm.
Interior Support Post Diameter: Two large postholes filled with limestone (Features 802 and 803) were identified within the structure interior. Both posts measured 35 cm in diameter.
Key Features: Two stone-box graves (Burials 42 and 43); two large interior posts (Features 802 and 803).
Remarks: Structure 10 was recorded about six meters north of Structure 6 and just east of Structure 31. This nearly complete building appears to be missing portions of

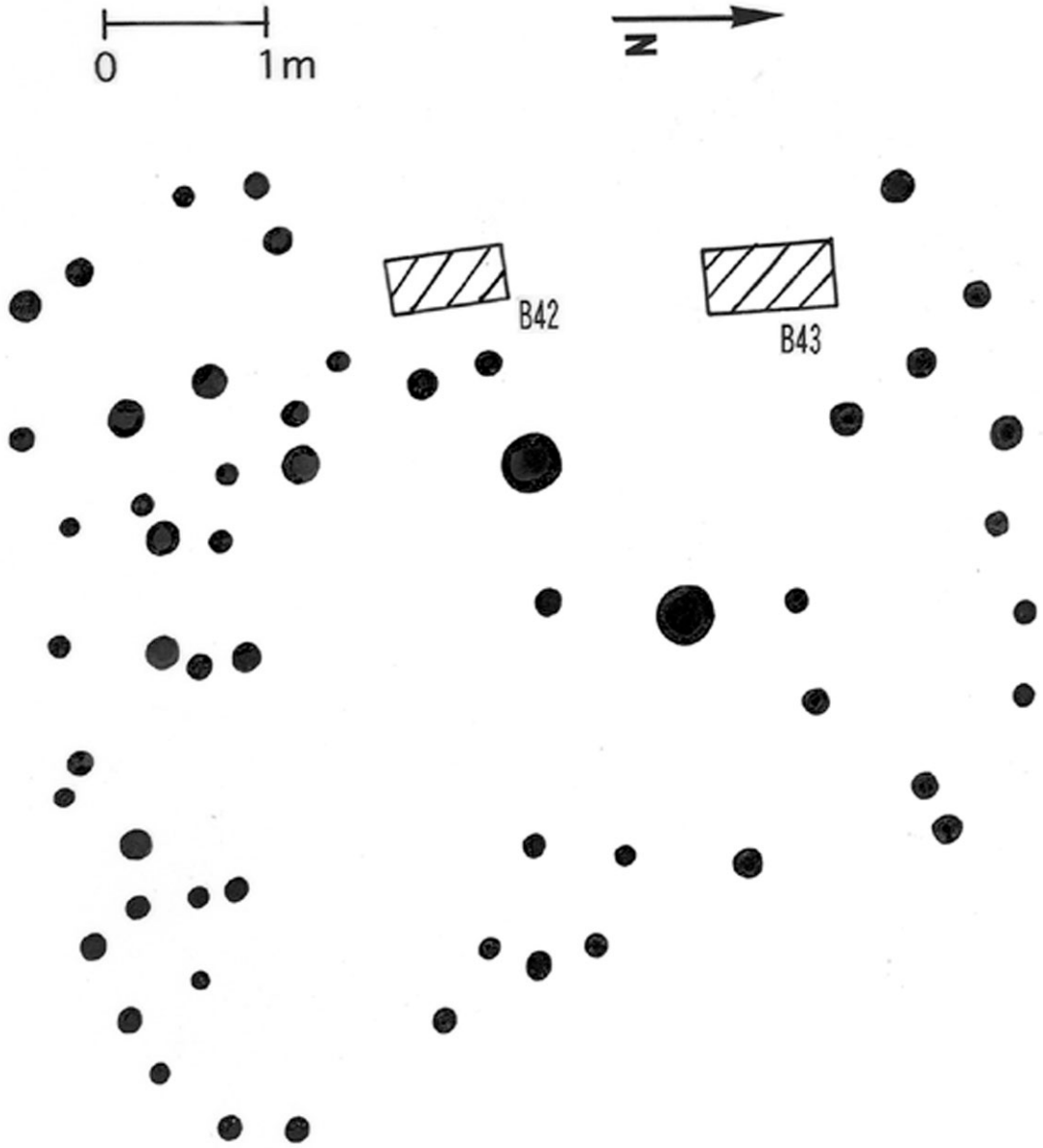

Figure 33. Structure 10 plan-view.

the northwest and east exterior walls. Grading activity from the library construction may be to blame, as this structure abuts a portion of the site completely destroyed prior to examination by Division personnel.

Lines of posts along the southern margin indicate this building has been substantially refurbished (if not completely rebuilt) at least once. In addition, if Features 802 and 803 are indeed classic central support posts, then their alignment does not support just one construction episode. The discovery of two stone-box graves inside this structure also adds food for thought regarding the use and reuse of Structure 10. No other structures from the site yielded more than one stone-box grave.

The presence of more than one stone-box grave inside this structure, although uncommon, was not initially viewed as something extraordinary. Further examination of these graves, however, did yield very interesting results. Each stone-box was found to contain the remains of two infants ranging from newborn to about nine months. This finding of four infants buried in the same house adds to the intrigue regarding the rebuilding episodes suggested by the structure plan-view. Were these children from the same family, or more than one family that occupied Structure 10?

Structure 11 (Figure 34)

Construction: Post.

Plan View: Square with rounded corners.

Wall Dimensions: 5.8 meters, although north-south orientation may extend out to 7.0 meters.

Wall Post Diameter: Range from 11 cm to 20 cm, most from 14 cm to 17 cm.

Wall Post Interval: Range from 20 cm to 70 cm.

Interior Support Post Diameter: Possible southeast support posts include Features 932 (29.0 cm) and 933 (28.0 cm).

Key Features: One stone-box grave (Burial 54).

Remarks: This structure was recorded near the center of the exposed habitation area, east of Structure 14, southeast of Structure 22, west of structure 41, and north of Structure 8. Obvious refurbishing along the north, east, and (possibly) west walls has given this structure a rather lopsided plan-view.

An infant grave was present in the southwest corner. This stone-box was constructed with a ceramic floor, but yielded no associated grave goods.

Structure 12 (Figures 35 and 36)

Construction: Post.

Plan View: Square with rounded corners.

Wall Dimensions: 4.5 meters.

Wall Post Diameter: Range from 12 cm to 19 cm.

Wall Post Interval: Range from 25 cm to 90 cm.

Interior Support Post Diameter: One possible support post (Feature 1098) in southwest corner measures 25 cm.

Key Features: One central hearth, Feature 1081 (Figure 36).

Remarks: Structure 12 was identified in the center of the exposed habitation area. This structure was a bit smaller in size than other structures in the vicinity, including Structure 15 to the north and Structure 13 immediately south. Several parts of this building (such as the west wall) were missing as a result of deep construction grading.

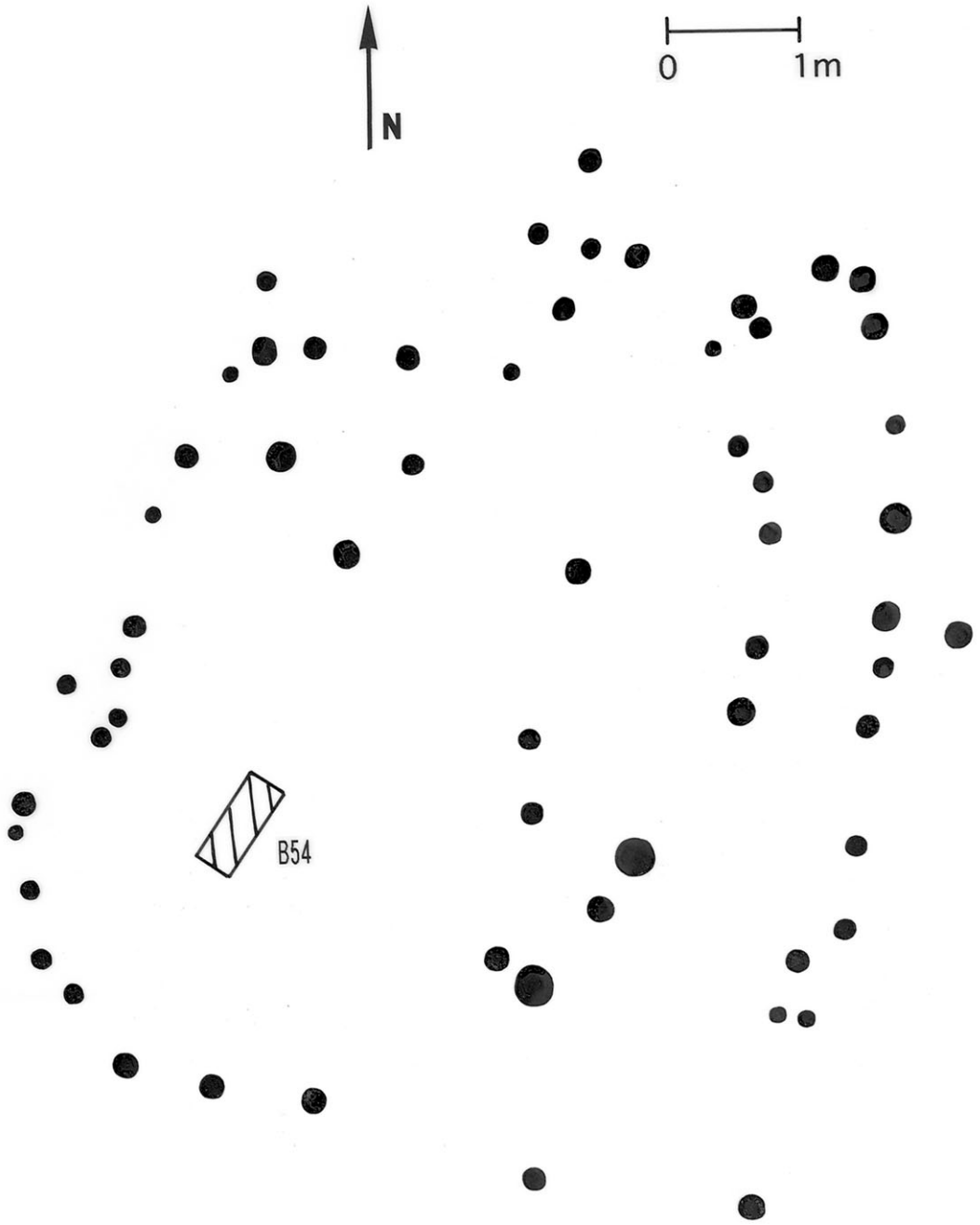

Figure 34. Structure 11 plan-view.

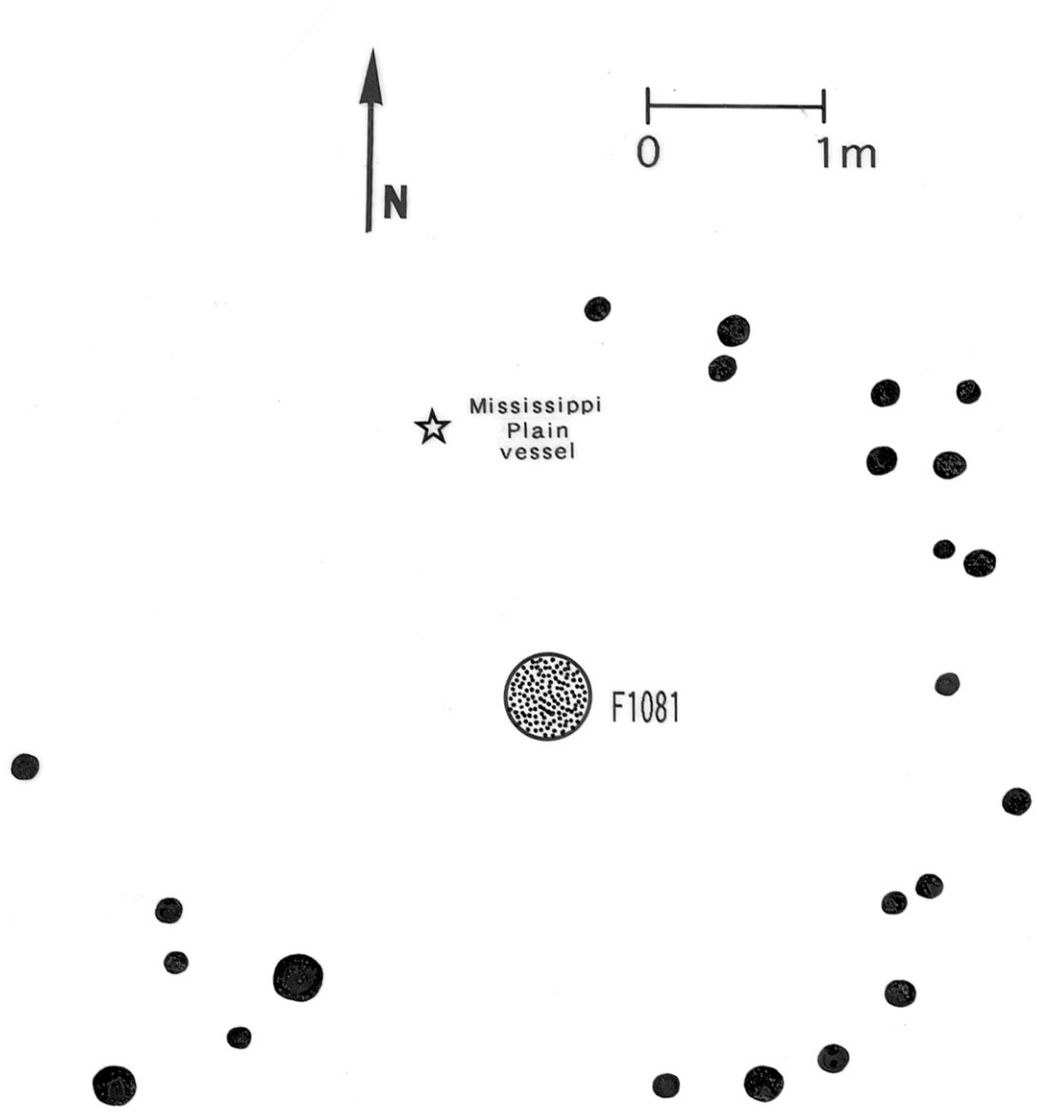

Figure 35. Structure 12 plan-view.

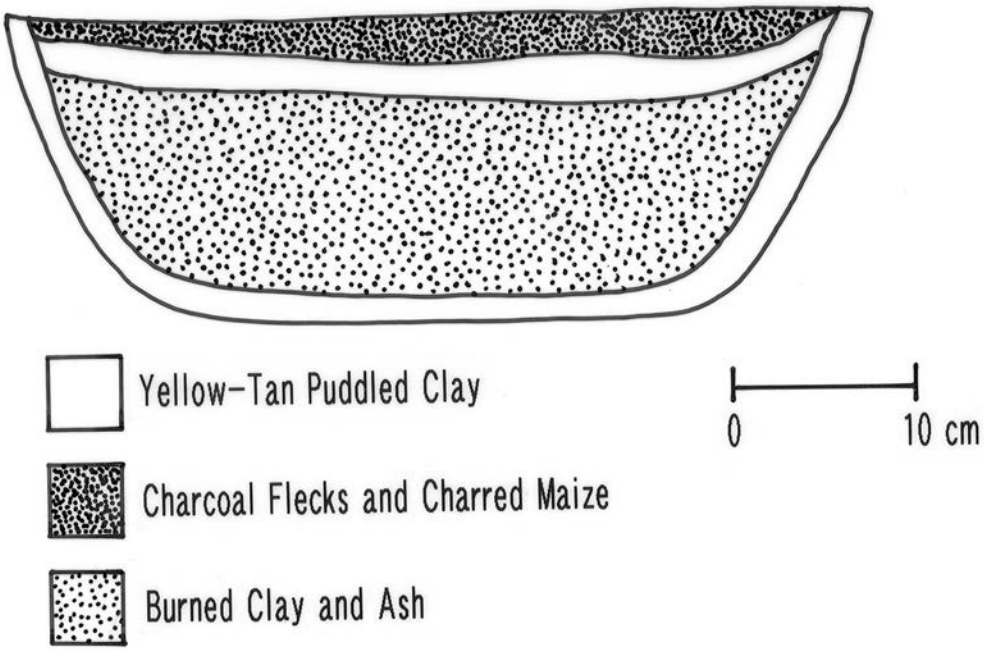

Figure 36. Structure 12 hearth, south profile.

The hearth (Feature 1081) in the structure center was somewhat circular in plan-view, measuring 45 cm in diameter. Further investigation of this feature defined two separate construction events (see Figure 36). The initial hearth extended at least 16 cm below ground surface and displayed a basin-shaped cross-section. A coat of puddled-clay (about 2 cm thick) was placed inside this basin to form steeply sloped walls and a flat base. At some point in time, this hearth was refurbished with a second layer of puddle-clay. This second layer consisted of two to four centimeters of puddled-clay placed about ten centimeters above the initial hearth base. Very little of the second hearth was preserved. The small amount of fill within the second hearth yielded wood charcoal as well as charred corn. The top of the Structure 12 hearth had been removed by grading action prior to Division review. However, the remnant of a puddled-clay collar (ranging between 2 to 4 cm thick) was observed as a separate ring several centimeters outside the hearth exterior. Whether or not this collar was part of the initial hearth construction, or added as part of the refurbished hearth, cannot be answered with the available information.

One ceramic vessel of unknown form (Mississippi Plain paste) was recovered near the north wall. Unfortunately, this vessel was heavily damaged by heavy machinery.

Structure 13 (Figure 37)

Construction: Post.
Plan View: Square with rounded corners.
Wall Dimensions: 6.3 meters.
Wall Post Diameter: Range from 13 cm to 22 cm, most from 14 cm to 17 cm.
Wall Post Interval: Range from 20 cm to 80 cm, most from 30 cm to 40 cm.

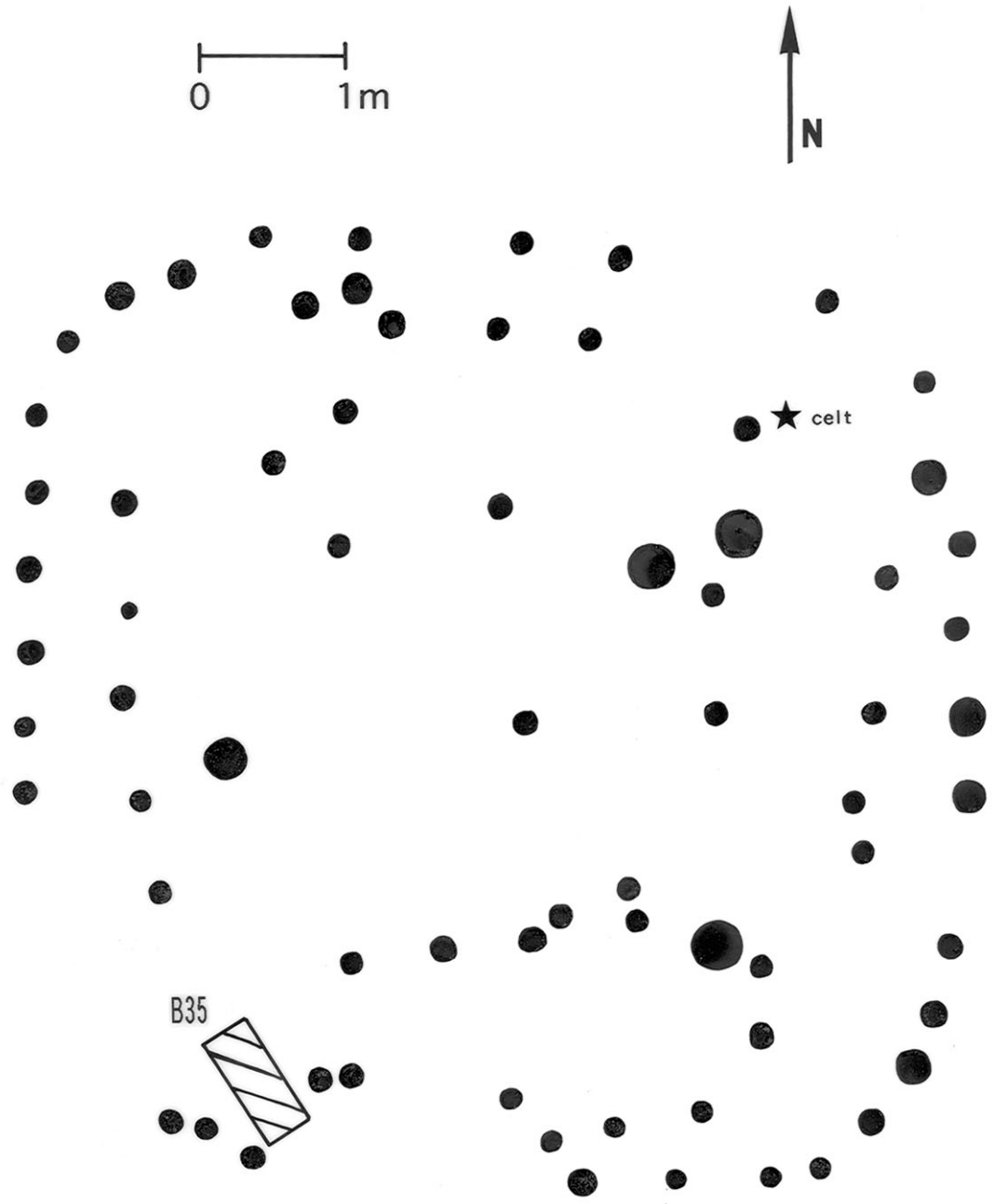

Figure 37. Structure 13 plan-view.

Interior Support Post Diameter: Northeast support posts (Features 989 and 994) measure 29 cm and 28 cm, respectively. Southeast support post (Feature 942) measures 30 cm. One possible southwest support post (Feature 967) measures 25 cm.

Key Features: One stone-box grave (Burial 35), two northeast support posts (Features 989 and 994), and southeast support post (Feature 942).

Remarks: Structure 13, located just south of Structure 12 and west of Structure 14, represents a good example of Mississippian architecture with well-defined walls and corners. Similar to other building across the site area, however, this structure has been refurbished at least once. Additional lines of posts adjacent to each exterior wall indicate this structure has either been repaired, or possibly expanded. The presence of two support posts in the northeast corner bolsters this statement.

The presence of a stone-box burial (Burial 35) in the southwest corner of the structure mirrors that observed in several other site structures (Structures 4, 11, 15, and 19). Looters had removed all of the skeletal remains from this burial. No associated burial objects were observed.

One celt was recorded on the structure floor in the northeast corner. This stone tool was made of limestone.

Structure 14 (Figure 38)

Construction: Post.

Plan View: Unknown due to incomplete post pattern.

Wall Dimensions: At least 6.0 meters.

Wall Post Diameter: Range from 11 cm to 20 cm.

Wall Post Interval: Range from 25 cm to 80 cm.

Interior Support Post Diameter: Unknown.

Key Features: None.

Remarks: A partial (west) wall and several additional posts minimally defined Structure 14. This building remnant was located just east of Structure 13.

Two ceramic vessels (A and B) were recorded on the building floor. Vessel A was a Bell Plain plate exposed to such intense heat that a portion of the vessel literally melted. Vessel B consisted of a Mississippi Plain jar.

Structure 15 (Figure 39)

Construction: Post.

Plan View: Square with rounded corners.

Wall Dimensions: 5.5 meters.

Wall Post Diameter: Range from 13 cm to 20 cm, most from 15 cm to 17 cm.

Wall Post Interval: Range from 10 cm to 90 cm, most from 30 cm to 40 cm.

Interior Support Post Diameter: Feature 1052 (northwest) measures 27 cm. Feature 1069 (northeast) measures 22 cm.

Key Features: One stone-box grave (Burial 52), northwest central support post (Feature 1052), and northeast central support post (Feature 1069).

Remarks: Structure 15 was recorded several meters northeast of Structure 12 in the heart of the exposed habitation zone. The southwest corner appears to have had some minor repairs. An arc of posts near the northeast corner may comprise the remnant of an overlapping structure.

Burial 52 was located near the center of the west wall, and contained the disturbed remains of an infant. No associated funerary objects were recovered from the grave.

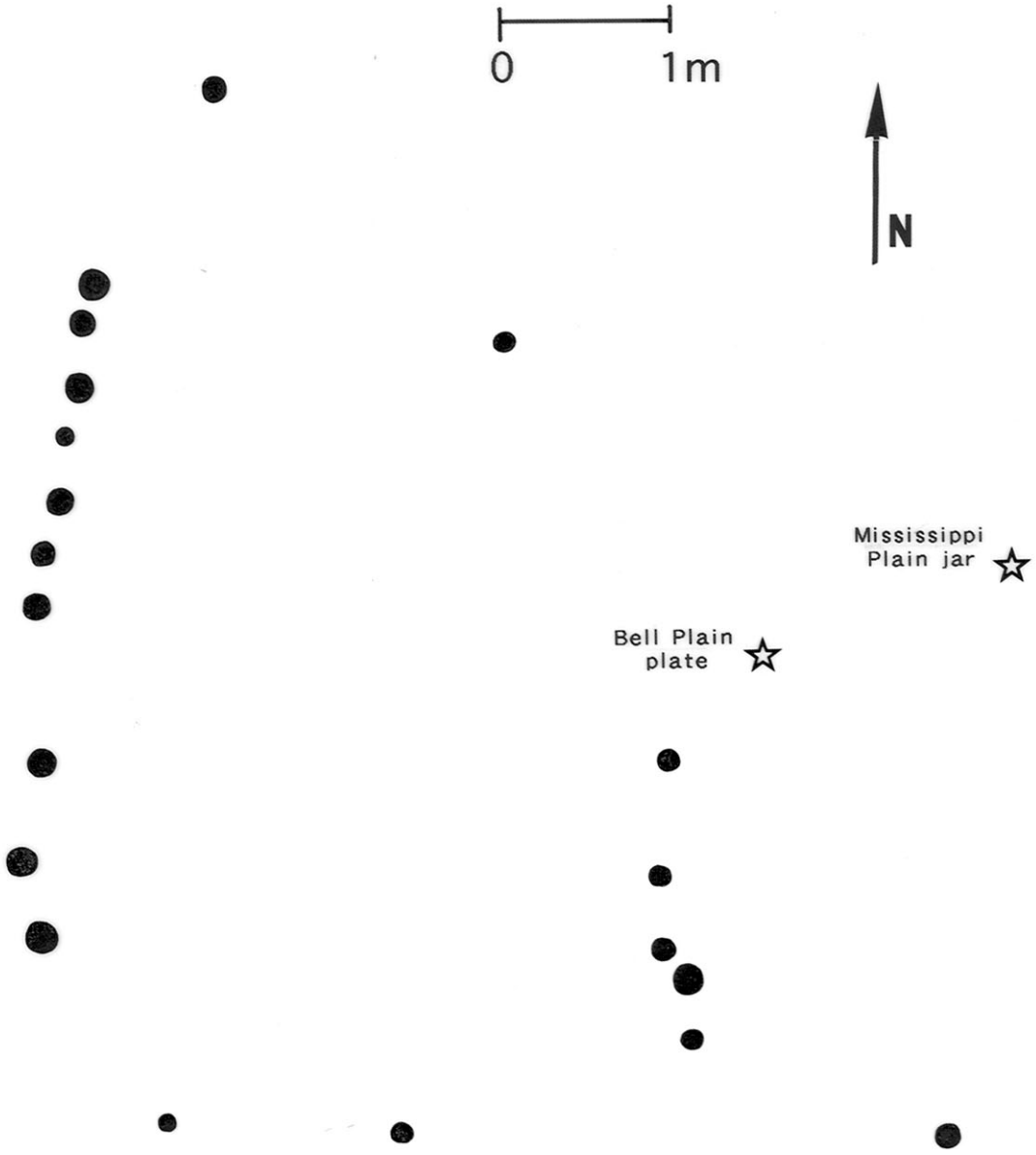

Figure 38. Structure 14 plan-view.

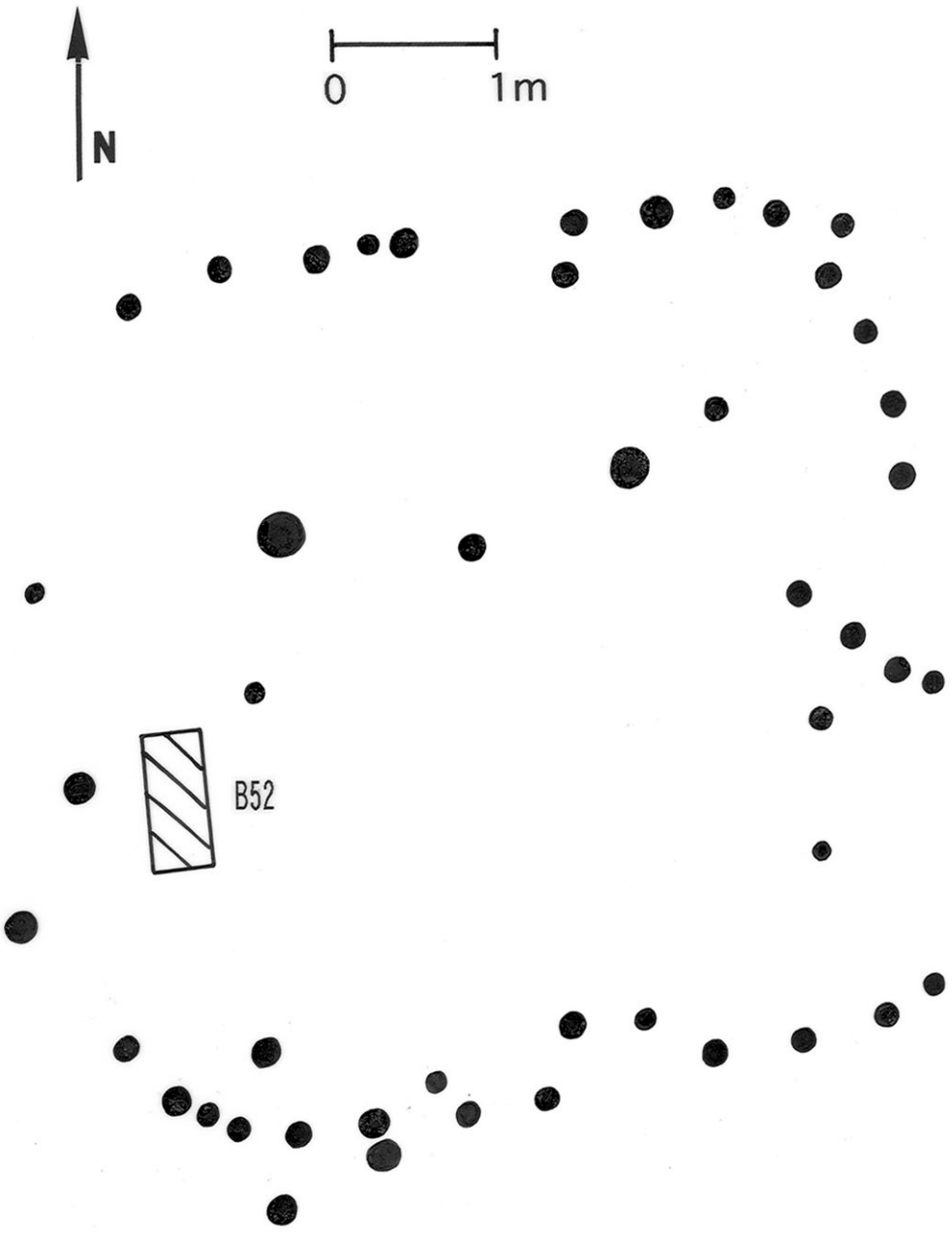

Figure 39. Structure 15 plan-view.

Structure 16 (Figure 40)

Construction: Post.

Plan View: Square with rounded corners.

Wall Dimensions: 6.2 meters.

Wall Post Diameter: Range from 14 cm to 23 cm, most from 17 cm to 20 cm.

Wall Post Interval: Range from 30 cm to 60 cm.

Interior Support Post Diameter: Feature 1105 (southwest) measures 30 cm. Feature 1151 (southeast) measures 32 cm. Possible northwest support posts (Features 1160 and 1161) measure 19 cm and 18 cm, respectively.

Key Features: One stone-box grave (Burial 59), southwest central support post (Feature 1105), and southeast central support post (Feature 1151).

Remarks: This building was uncovered near the center of the exposed habitation zone just southwest of the parking lot construction border. Structure 16 represented one of the best (if not the finest) examples of Mississippian architecture recorded during the 1997 investigations. The building presented little evidence for refurbishing activity, with the possible exception of the west-central wall. This lack of repairs provided a template for the ideal post size and intervals on a Mississippian period house.

Burial 59 comprised an infant stone-box grave with poorly preserved skeletal remains. No associated funerary objects were observed. This burial had been placed near the center of the west wall.

Structure 17 (Figure 41)

Construction: Post.

Plan View: Square with rounded corners.

Wall Dimensions: 5.4 meters.

Wall Post Diameter: Range from 11 cm to 20 cm.

Wall Post Interval: Range from 20 cm to 70 cm.

Interior Support Post Diameter: Multiple center support posts in the northeast (Features 1189 and 1191), southeast (Feature 1204), and southwest (Features 1169 and 1170) areas measure between 20 cm and 25 cm.

Key Features: One burned limestone cluster (Feature 1188), one stone-box grave (Burial 58), northeast center support posts (Features 1189 and 1191), southeast center support post (Feature 1204), and southwest center support posts (Features 1169 and 1170).

Remarks: Construction grading exposed this well-defined building along the eastern construction boundary near the center of the exposed habitation zone. Structure 17 was built immediately north of Structure 21 and about five meters northwest of Structure 16. An intermittent row of postholes defined the west wall of Structure 17. This particular wall was adjacent to a section of the site severely disturbed by library construction activity.

Feature 1188 consisted of a somewhat circular cluster of burned limestone rocks placed about one meter northwest of the structure center. This feature measured 35 cm in diameter. Similar to the features recorded in Structure 4, this limestone cluster also falls between (or in line with) the central support posts.

An infant (Burial 58) was interred along the center of the west wall. The skeletal remains inside the stone-box had been severely disturbed by rodents. No mortuary goods were present inside the grave. The location of this burial along the west wall mirrors that noted for Structures 10, 15, and 16.

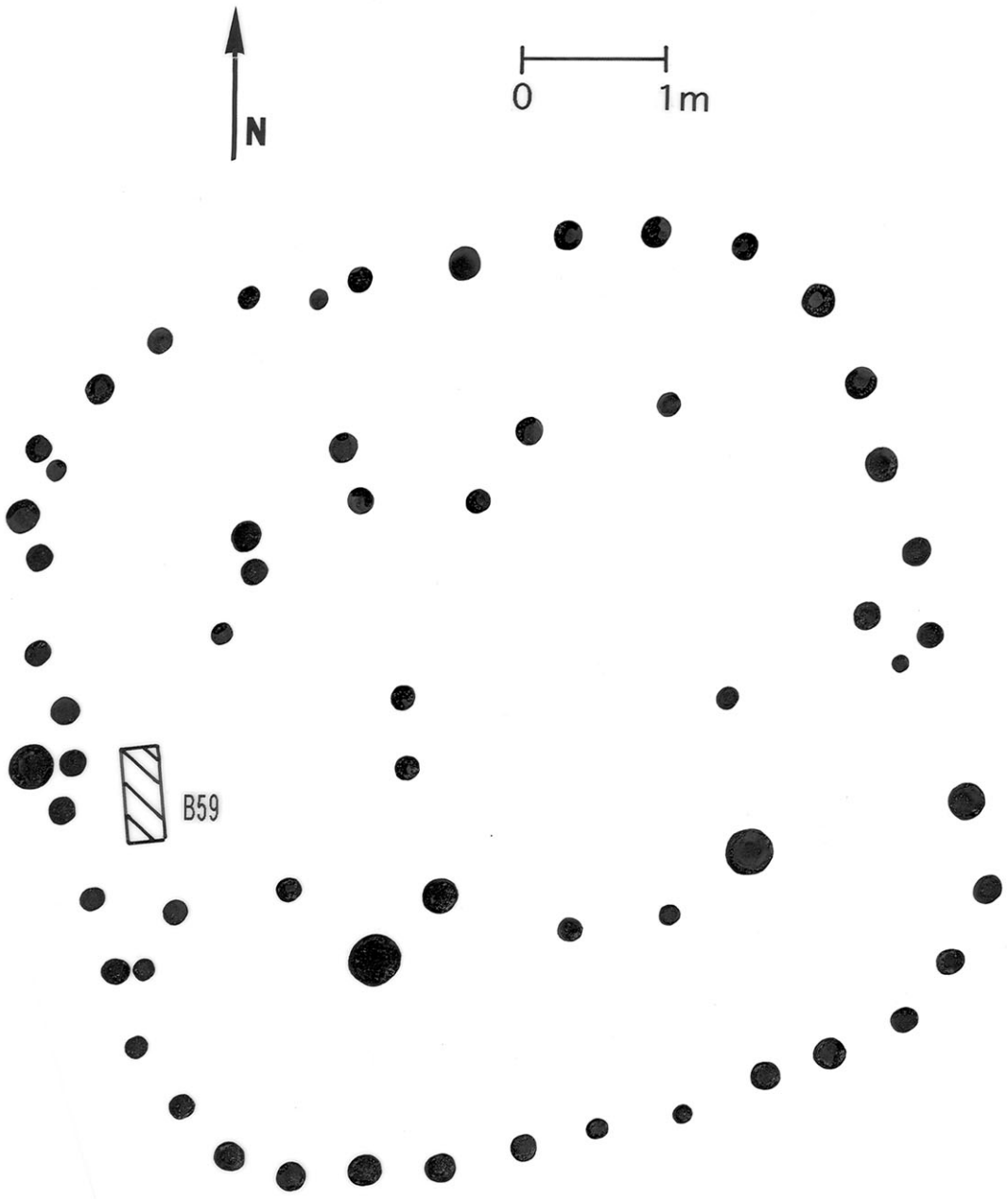

Figure 40. Structure 16 plan-view.

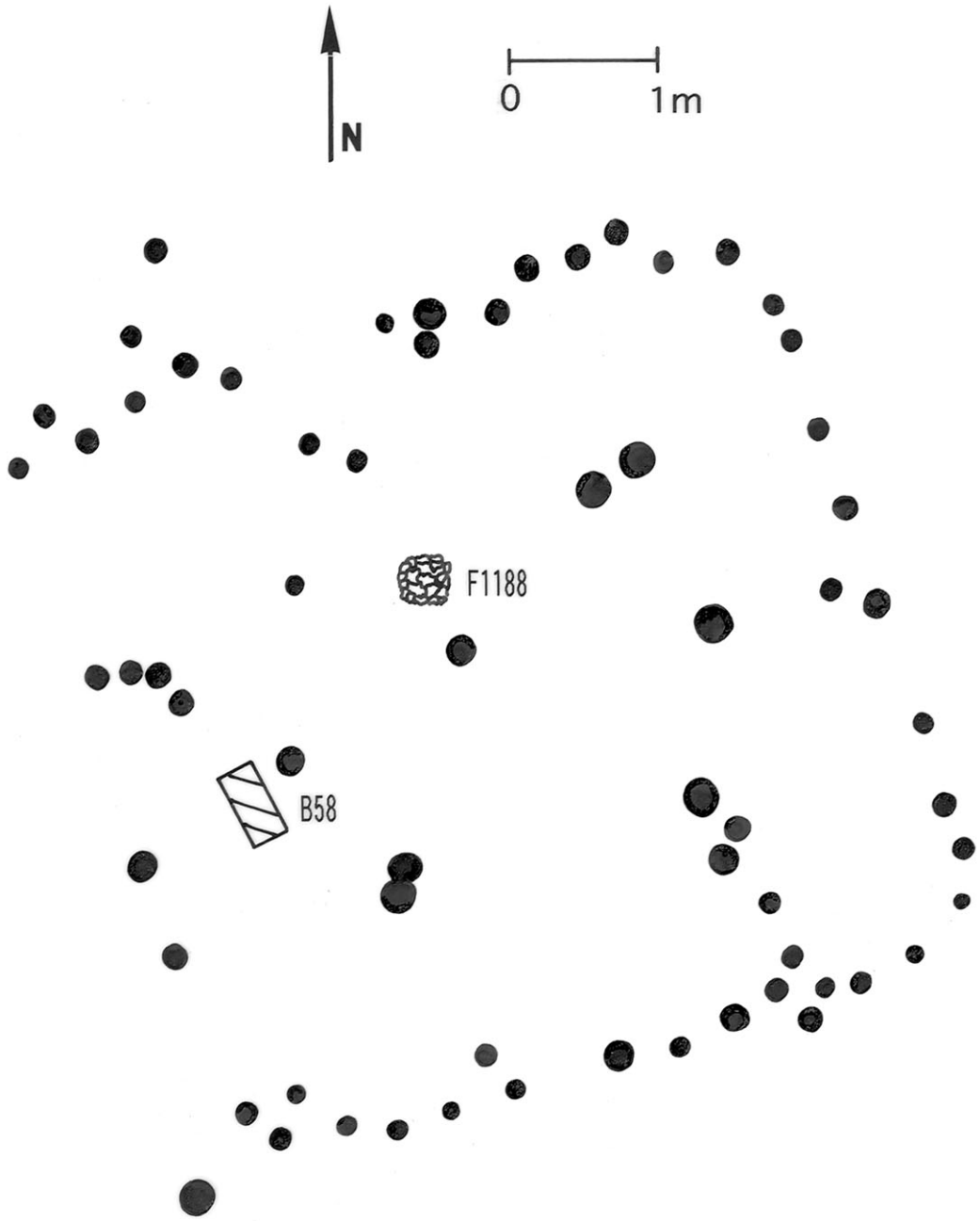

Figure 41. Structure 17 plan-view.

Structure 18 (Figure 42)

Construction: Post.

Plan View: Square with rounded corners.

Wall Dimensions: 6.2 meters.

Wall Post Diameter: Range from 11 cm to 20 cm.

Wall Post Interval: Range from 10 cm to 20 cm.

Interior Support Post Diameter: Possible support posts (Features 1249, 1288, and 1305) range from 22 cm to 25 cm.

Key Features: One burned limestone cluster (Feature 1306) and one stone-box grave (Burial 14).

Remarks: The 1997 investigations uncovered this structure several meters south of Structure 41 and northwest of Structure 19. A look at the plan-view indicated Structure 18 has been refurbished several times, with extensive reconstruction along the south wall. The remnant of a burned limestone cluster (Feature 1306) was recorded about one meter northwest of the structure center. This position was very similar to that noted for the limestone cluster inside Structure 17. Whether or not the Structure 18 limestone cluster was located between the central support posts (as noted for Structures 4 and 17) cannot be ascertained with the available information.

Burial 14 comprised a stone-box grave placed along the (center) north wall. The child inside the coffin was about four years of age. This particular individual was several years older than the other children buried inside structures. A hunchback figurine rattle (female?) had been placed along the right side (at the waist) of this child.

Structure 19 (Figure 43)

Construction: Post.

Plan View: Square with rounded corners.

Wall Dimensions: 6.5 meters.

Wall Post Diameter: Range from 12 cm to 19 cm.

Wall Post Interval: Range from 10 cm to 65 cm, most from 30 cm to 50 cm.

Interior Support Post Diameter: Possible northwest support (Feature 1387) measures 24 cm.

Key Features: One central hearth (Feature 1389), one stone-box grave (Burial 53), and one oval pit feature (Feature 1390).

Remarks: This large structure exhibited a nearly complete post pattern except for a section of the west wall. The east and south walls were obviously rebuilt, with extensive efforts noted for the south wall. Structure 19 was built immediately south of Structure 66, and several meters northeast of Structure 7.

A circular hearth (Feature 1389) was centrally located within the structure. This hearth of puddled clay measured 60 cm in diameter, with a basin-shaped profile.

The stone-box grave (Burial 53) near the interior southwest corner contained the remains of two individuals (3 years and fetal). No grave goods were recovered from this interment.

One oval pit feature (Feature 1390) was defined 30 cm south of the central hearth. Consulting archaeologists examined this pit for the presence of human remains. Very little information was obtained from this feature due to construction limitations. No artifactual material was recovered. The relationship of this pit to Structure 19 cannot be properly assessed given the minimal excavation. However, very few structure plan-views from 40Wm210 displayed pit features.

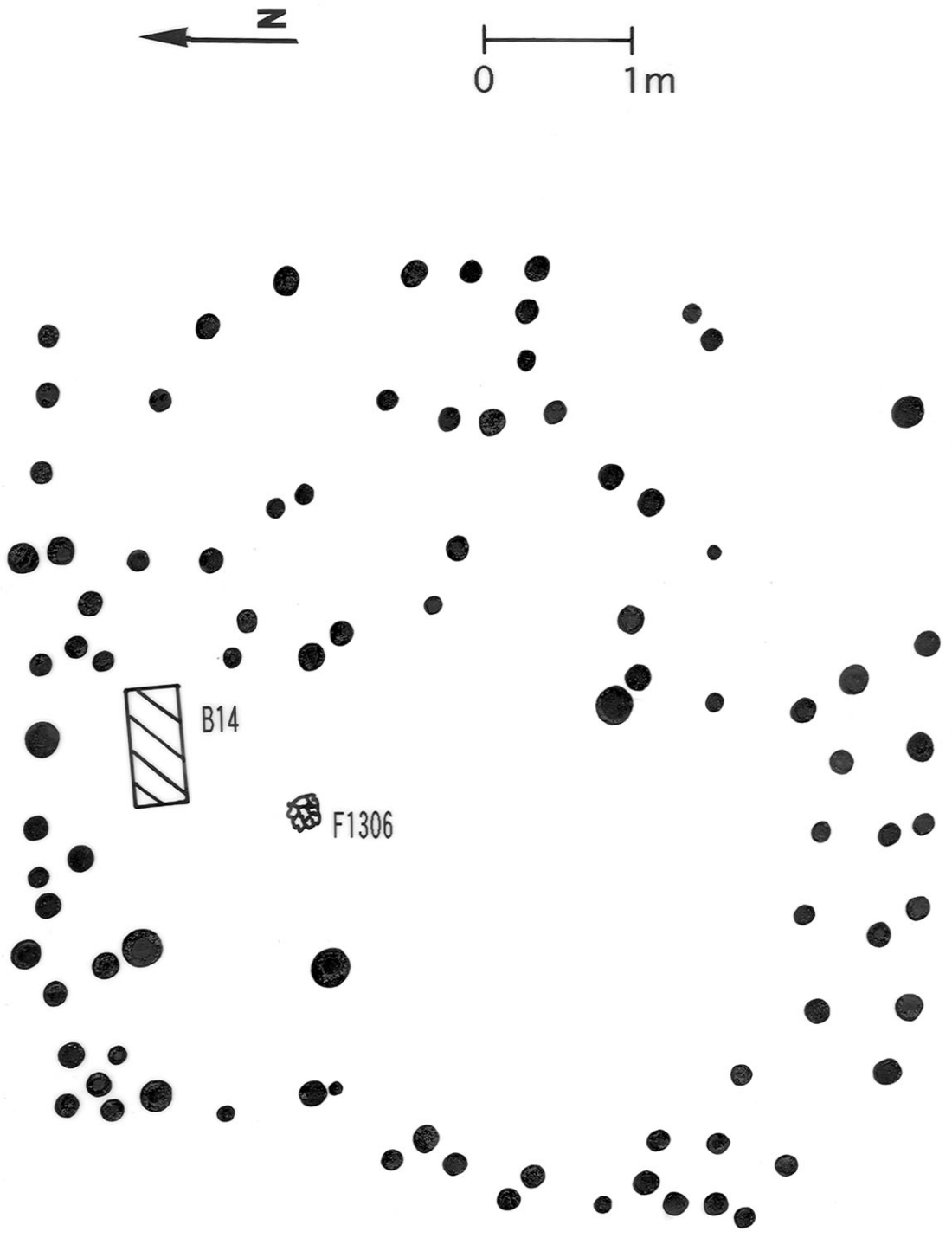

Figure 42. Structure 18 plan-view.

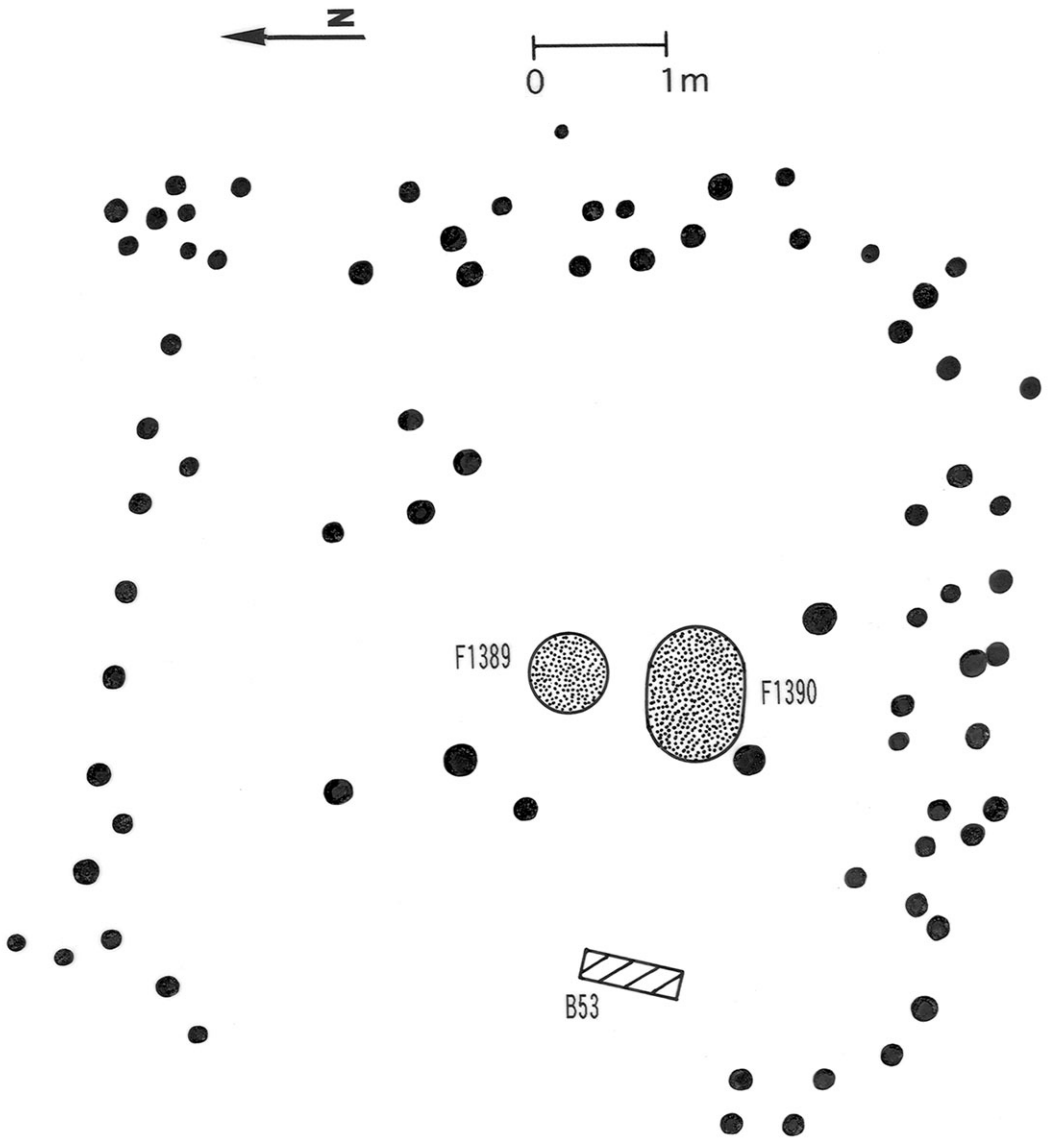

Figure 43. Structure 19 plan-view.

Structure 20 (Figure 44)

Construction: Post.

Plan View: Square with rounded corners.

Wall Dimensions: 5.1 meters to 5.5 meters.

Wall Post Diameter: Range from 8 cm to 20 cm.

Wall Post Interval: Range from 10 cm to 60 cm.

Interior Support Post Diameter: Feature 1417 (southeast) measures 30 cm. Probable supports include Features 1434 and 1442 (northwest) and Feature 1451 (northeast). Each of these posts measure 25 cm.

Key Features: One infant burial inside a ceramic vessel (Burial 74), one stone-box grave (Burial 55), and the southeast center support post (Feature 1417).

Remarks: Structure 20 was located near the center of the exposed habitation area and adjacent to the eastern construction boundary. Structure 16 occurs several meters to the northwest, and the exterior palisade line runs about eight meters to the northeast.

A modern trench dug by the previous landowner (for a dump) destroyed a substantial portion of the area immediately south of Structure 20. Unfortunately, the south wall of Structure 20 fell within this destroyed zone. An approximate two-meter section near the southwest corner was completely removed.

A look at the Structure 20 plan-view illustrates two distinct rows of posts around the west, north, and east walls (damage to the south wall has made assessment difficult). These different lines could be the result of rebuilding and/or refurbishing activities.

Two burials had been placed inside this building. A stone-box grave (Burial 55) in the extreme northeast corner contained the remains of a newborn infant. No mortuary items were noted in the coffin. The second grave (Burial 74) also yielded the remains of an infant. However, this particular individual was placed inside a Mississippi Plain jar. Burial 74 was found about one meter northwest of the structure center, towards the west wall. As with Burial 55, no associated grave goods were present.

Structure 21

Construction: Post.

Plan View: Probably square.

Wall Dimensions: At least 5.5 meters.

Wall Post Diameter: Range from 11 cm to 20 cm.

Wall Post Interval: Visible sections range from 20 cm to 50 cm.

Interior Support Post Diameter: One probable support post (Feature 1490) measures 35 cm.

Key Features: None.

Remarks: Structure 21 was loosely defined by a somewhat square pattern of posts between Structures 16 and 17. This building occurs near the center of the exposed habitation area.

Structure 22

Construction: Post.

Plan View: Unknown.

Wall Dimensions: Unknown.

Wall Post Diameter: Range from 11 cm to 19 cm.

Wall Post Interval: 40 cm to 50 cm.

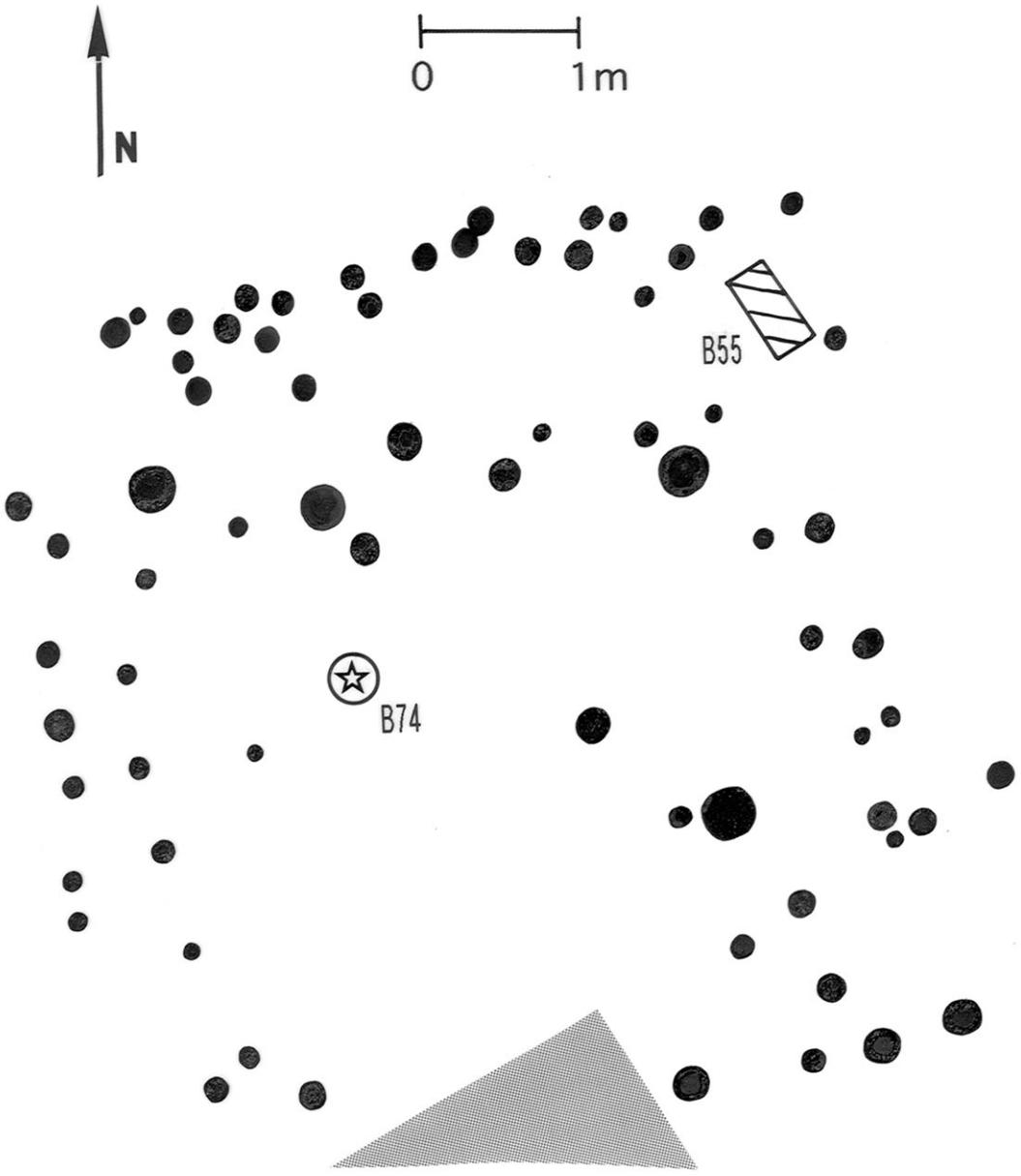

Figure 44. Structure 20 plan-view.

Interior Support Post Diameter: Probable support posts (Features 1530, 1539, and 1555) measure 25, 30, and 25 cm, respectively.
Key Features: None.
Remarks: Structure 22 probably represents the remnants of several different buildings constructed on the same spot. This building was initially defined by several linear post patterns near the center of the exposed habitation area. These assorted wall sections, each obviously representative of structures, do not align themselves into a particular structure pattern.

Structure 23 (Figure 45)
Construction: Post.
Plan View: Square with rounded corners.
Wall Dimensions: 5.0 meters.
Wall Post Diameter: Range from 12 cm to 20 cm.
Wall Post Interval: Range from 20 cm to 90 cm, most from 30 cm to 50 cm.
Interior Support Post Diameter: Unknown.
Key Features: Southwest support post (Feature 1572), northwest support posts (Features 1574 and 1575), and southeast support post (Feature 1600).
Remarks: This building, located near the center of the exposed habitation area, occurs about six meters northwest of Structure 15 and the same distance west of Structure 17. The post pattern denoted a rather modest structure with no evidence of rebuilt or refurbished walls. At five meters, Structure 23 was smaller than most of the other site buildings. Several linear post patterns extending from the east wall may represent interior walls or partitions.

Structure 24 (Figures 46 and 47)
Construction: Post.
Plan View: Square with rounded corners.
Wall Dimensions: 5.9 meters to 6.3 meters.
Wall Post Diameter: Range from 11 cm to 22 cm.
Wall Post Interval: Range from 20 cm to 80 cm.
Interior Support Post Diameter: Northwest support post (Feature 1692) measures 20 cm, northeast support post (Feature 1679) measures 23 cm, and southeast support post (Feature 1659) measures 25 cm. Two southwest support posts (Features 1695 and 1698) both measure 20 cm.
Key Features: One central hearth (Feature 1686), one burial (Burial 73), four burned limestone clusters (Features 1687, 1693, 1694, and 1697), northwest support post (Feature 1692), northeast support post (Feature 1679), southeast support post (Feature 1659), and two southwest support posts (Features 1695 and 1698).
Remarks: Structure 24 was constructed immediately north of Structure 26 and west of Structure 28. This fine example of Mississippian period architecture displayed obvious signs of rebuilding with at least two rows of exterior wall posts. This building has been substantially refurbished (expanded?) along the west, south, and possibly east walls. Several linear post patterns extending from the exterior walls toward the structure center may comprise the remnants of interior walls or partitions. The southeast support post (Feature 1659) has six smaller posts along the west, north, and east sides. These smaller posts were most likely added for additional roof support during a later rebuilding episode.

The presence of four burned limestone clusters provided additional evidence for (at least one) rebuilding episode. The only other structure from the site to yield more than one such cluster was Structure 4 (n=2). All of the Structure 24 clusters had

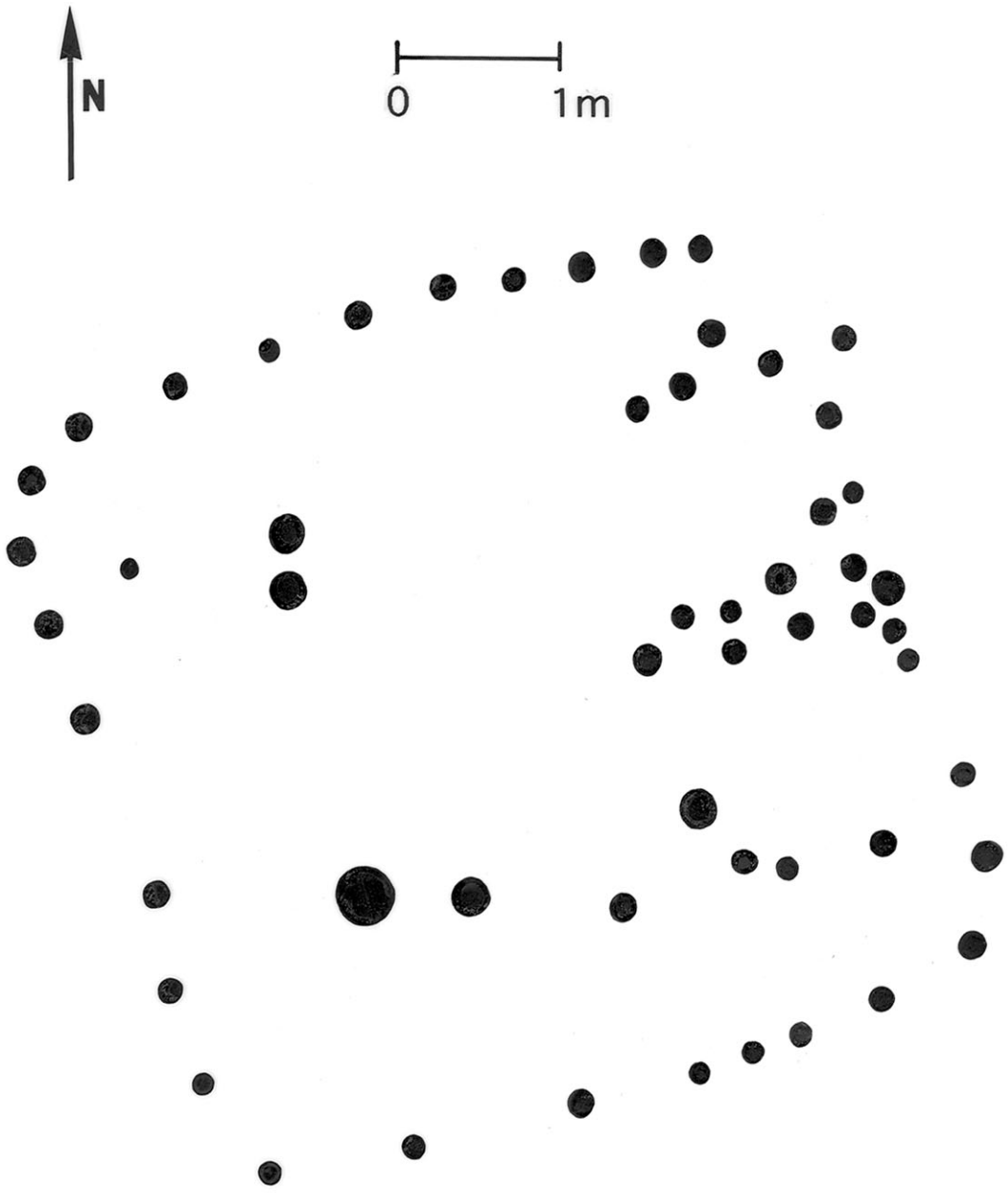

Figure 45. Structure 23 plan-view.

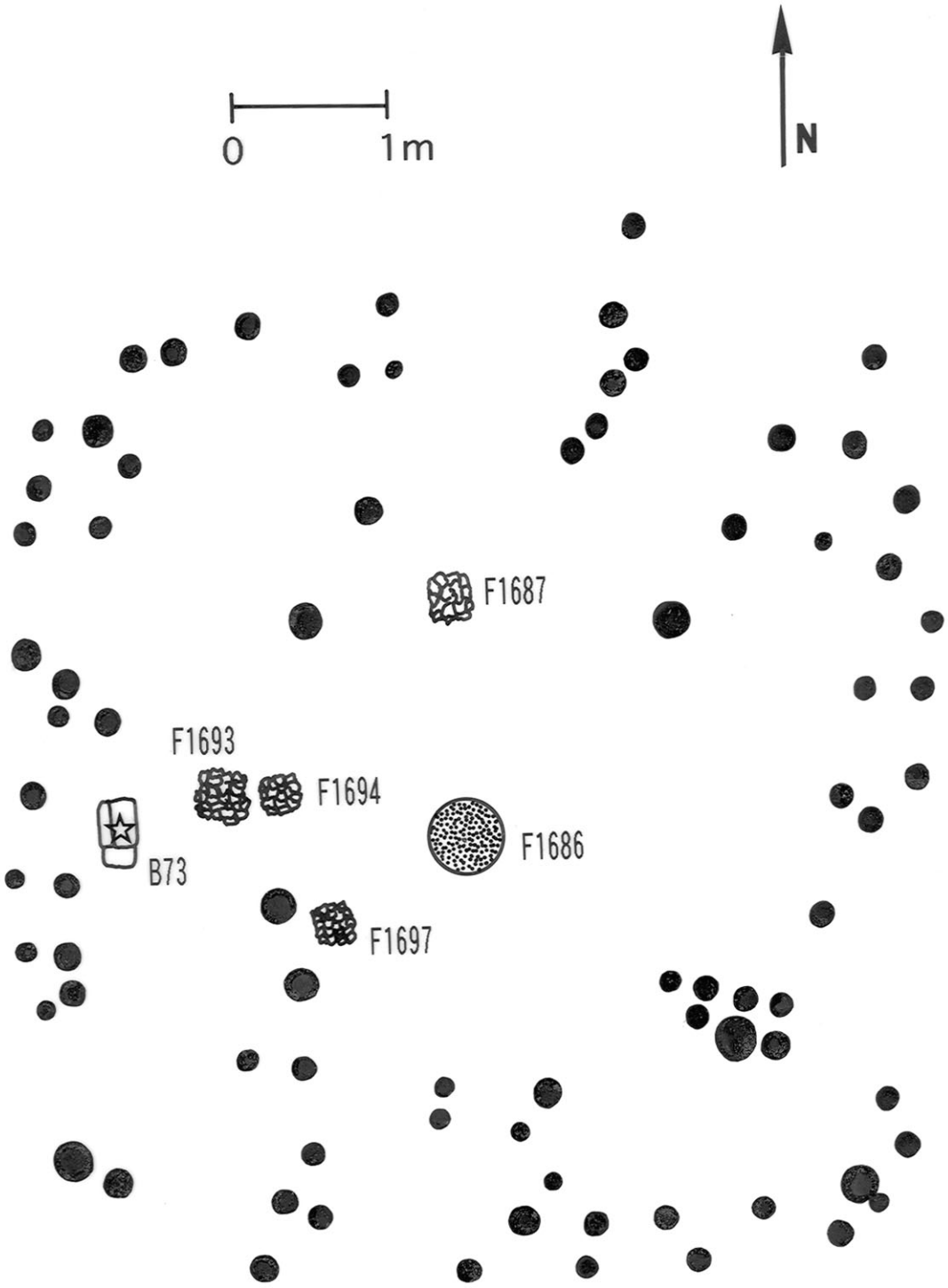

Figure 46. Structure 24 plan-view.

been placed within the western one-half of the building, with three located in close proximity between the central hearth and west wall. Each cluster was somewhat squarish to circular, measuring between 25 cm and 30 cm in diameter.

A somewhat circular hearth (Feature 1686) was present in the structure center. This basin-shaped hearth, measuring 45 cm in diameter, had been damaged by some unknown activity. The exterior rim and walls (formed of puddled-clay) were partially intact. However, a zone of burned earth defined much of the feature base. The very center of the hearth base was the only portion to display a prepared surface. Fill removed from the hearth was comprised of dense clay with small flecks of charcoal and baked clay.

One of the most unusual burials recorded from the site was Burial 73 (Figure 47). This grave consisted of one young individual placed in a very shallow pit (depression?) and covered with three large ceramic jar sherds. Burial 73 was initially defined as a ceramic vessel on the house floor (similar to others from the site area). The true nature of this feature was not identified until the ceramic sherds were removed. At that time, skeletal remains in very poor condition were observed under the sherds. Unfortunately, the fragmented nature of the remains has prevented an accurate evaluation of the interred individual. At this time, the person is believed to be that of a young child. No associated grave goods were discovered during the excavation of this feature/burial.

Figure 47. Burial 73 inside Structure 24.

Structure 25 (Figures 48, 49, and 50)

Construction: Post.

Plan View: Unknown, probably square with rounded corners.

Wall Dimensions: Unknown, at least 5.0 meters.

Wall Post Diameter: Range from 14 cm to 20 cm.

Wall Post Interval: Unknown.

Interior Support Post Diameter: Unknown.

Key Features: Two interior hearths (Features 1699 and 1700).

Remarks: This building occurs immediately east of Structure 26, north-northeast of Structure 23, and northwest of Structure 17. This locale occupies the middle of the exposed habitation area, about 10 meters southwest of the construction border.

Structure 25 was first identified as two separate hearths exposed during the burial removal program. Further stripping in search of associated posts yielded an indistinct structural pattern. The presence of multiple hearths points to the construction of more than one building, yet there is an absence of posts indicative of multiple buildings at this location. Such a lack may be the result of substantial clearing efforts by the prehistoric residents. Modern impacts, although certainly possible, seem unlikely given the presence of the hearths.

The two hearths were labeled as north and south in the field, and will be discussed as such in this report. The north hearth (Feature 1699) actually consisted of two somewhat circular, partially overlapping, prepared clay hearths (Figure 49). This conjoining does not appear to be the result of refurbishing an existing hearth, but rather the construction of a completely new hearth in the vicinity of an existing hearth. The northeast overlapping hearth ("A") measured 42 cm in diameter, whereas the southwest overlapping hearth ("B") measured 44 cm in diameter. Both hearths displayed slightly basin-shaped cross-sections, and measured roughly 30 cm deep. Rodent burrows and an intrusive post hampered assessing which hearth was completed first. However, it appears that north hearth "A" was built first, with north hearth "B" constructed afterward on top of the southwest corner of north hearth "A".

The south hearth (Feature 1700) displayed an unusual bell-shaped profile (Figure 50). Only one other hearth like it was recorded during the 1997 investigations (Feature 1914, Structure 37 hearth). Roughly circular in plan-view, the south hearth top measured 39 cm in diameter, reaching a maximum diameter of 58 cm at a depth of 22 cm below surface. The exterior walls consisted of heavily burned, puddled clay (two centimeters thick) that flared outward to a depth of 20 cm below surface. At 20 cm, the puddled clay that had previously defined the exterior walls was no longer present. The walls became straight at this depth and were defined by the yellow clay subsoil to 24 cm below surface. Yellow clay subsoil also defined the hearth base. Somewhat puzzling was the fact that the base was not burned. Visible changes to the soil color and texture were absent. Interestingly, the stratified hearth fill contained layers with charcoal and ash.

A stone-box grave (designated Burial 63) was initially recorded outside the northeast corner of Structure 25. However, further evaluation determined this feature was not a burial, but rather a limestone manifestation of recent origin.

Structure 26

Construction: Post.

Plan View: Squarish with rounded corners?

Wall Dimensions: 4.0 meters to 5.2 meters.

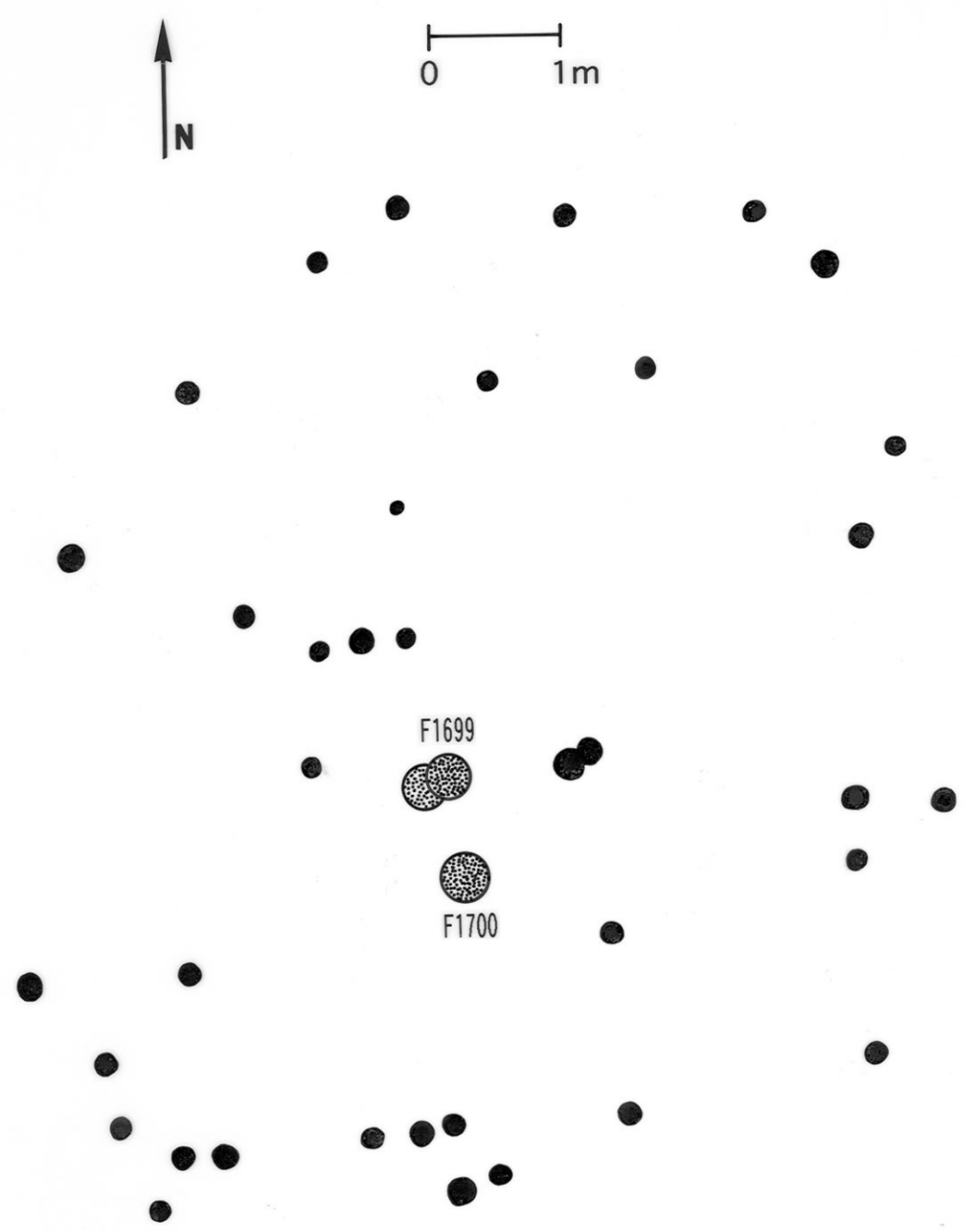

Figure 48. Structure 25 plan-view.

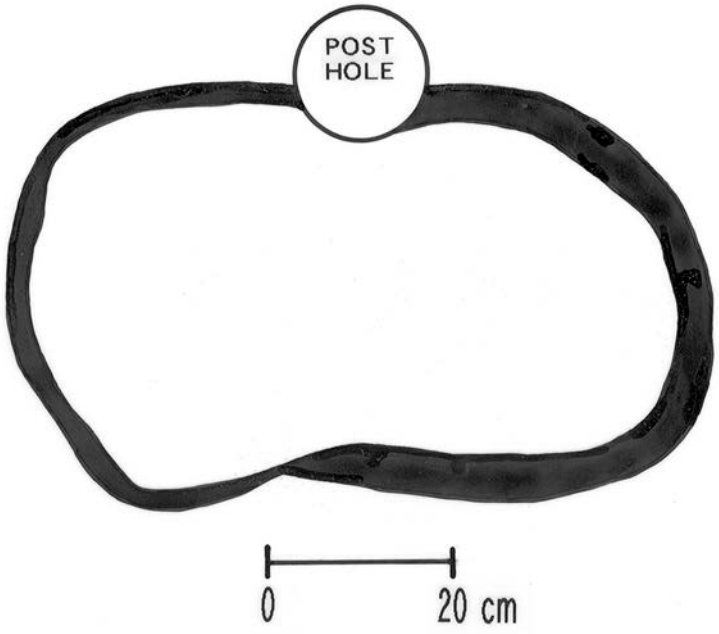

Figure 49. Structure 25, north hearth plan-view.

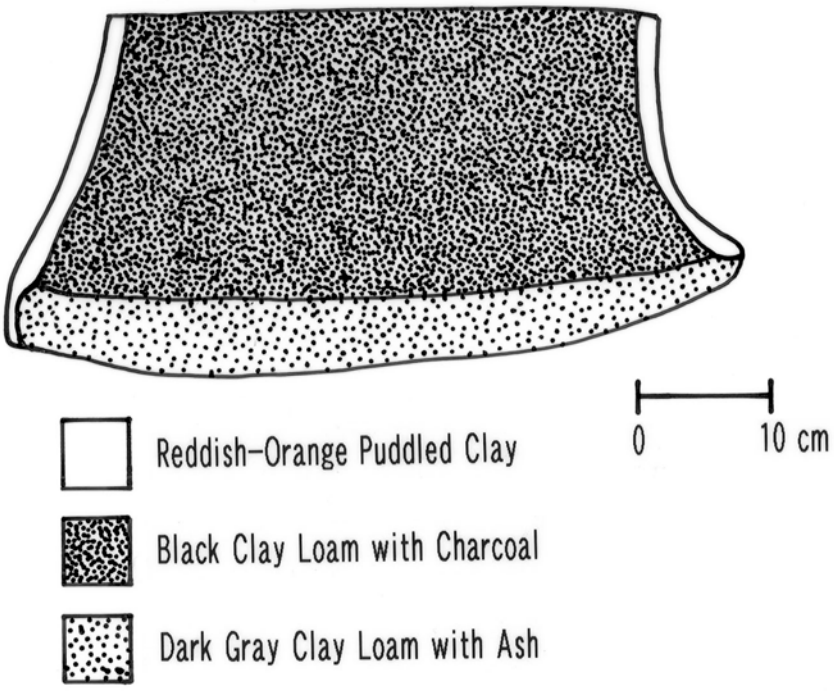

Figure 50. Structure 25, south hearth profile.

Wall Post Diameter: Range from 11 cm to 25 cm.
Wall Post Interval: Range from 10 cm to 60 cm along the north wall.
Interior Support Post Diameter: Both northeast supports (Features 1750 and 1751) measure 25 cm.
Key Features: Two northeast interior support posts (Features 1750 and 1751).
Remarks: Found several meters south of Structure 24, this small building displayed an intermittent post pattern along the east, south, and west walls. Probable center support posts (Features 1750 and 1751) were visible near the northeast corner. Two pit features (Features 51 and 1767) outside the southwest corner may or may not be associated with the Structure 26 residents. Both of these pits were minimally investigated during the burial removal program.

One Mississippi Plain ceramic vessel (initially designated Feature 68) was recorded near the northwest corner. The vessel form was indeterminate due to damage from heavy machinery.

Structure 27

Construction: Post.
Plan View: Square with rounded corners.
Wall Dimensions: Unknown.
Wall Post Diameter: Range from 10 cm to 16 cm.
Wall Post Interval: Range from 30 cm to 50 cm.
Interior Support Post Diameter: Unknown.
Key Features: None.
Remarks: Structure 27 was defined along the boundary of the northeast construction border. Only the southwest corner was exposed during library construction, with the remainder of the structure (hopefully) still intact just outside the proposed parking lot. No interior habitation features or artifacts were recorded inside the structure corner.

Structure 28

Construction: Post.
Plan View: Unknown.
Wall Dimensions: Unknown.
Wall Post Diameter: Range from 15 cm to 18 cm along small north wall remnant.
Wall Post Interval: Range from 10 cm to 70 cm along small north wall remnant.
Interior Support Post Diameter: Possible support post (Feature 1801) measures 25 cm.
Key Features: None.
Remarks: A minimal scatter of posts and probable corner remnant marked the location of Structure 28. This building was defined several meters west of the northeast construction border. The dispersed nature of the post pattern has limited this structure's research value. However, a ceramic vessel with Bell Plain paste was associated with this structure (Feature 48). Vessel form was not determined due to extensive damage from heavy machinery.

Structure 29

Construction: Post.
Plan View: Unknown.
Wall Dimensions: At least 5.6 meters.
Wall Post Diameter: Unknown.
Wall Post Interval: Unknown.
Interior Support Post Diameter: Unknown.

Key Features: None.
Remarks: Structure 29 was identified within the exposed habitation zone, along the boundary of the northern construction border. An isolated, yet amorphous post pattern has defined this structure. No habitation features or artifacts were noted for this building.

Structure 30
Construction: Post.
Plan View: Square with rounded corners.
Wall Dimensions: At least 5.0 meters.
Wall Post Diameter: Range from 12 cm to (possibly) 27 cm, most from 12 cm to 20 cm.
Wall Post Interval: Range from 30 cm to 60 cm.
Interior Support Post Diameter: Northwest support post (Feature 1845) measures 25 cm.
Key Features: Northwest support post (Feature 1845).
Remarks: Structure 30 was discovered within the northwest exposed habitation area about 10 meters southwest of Structure 4. This building consisted of a partial (corner and west wall) post pattern. Exploration of this locale yielded no artifactual material.

Structure 31 (Figure 51)
Construction: Post.
Plan View: Square with rounded corners.
Wall Dimensions: 5.0 meters.
Wall Post Diameter: Range from 13 cm to 22 cm.
Wall Post Interval: Range from 30 cm to 50 cm.
Interior Support Post Diameter: Unknown.
Key Features: None.
Remarks: The southern one-half of this building was exposed adjacent to the library building pad. Much of the northern portion was destroyed by construction activities. Some refurbishing activity was apparent along the east wall. No habitation features or artifacts were observed within Structure 31. One large pit feature (Feature 52) was present along the outside edge of the southeast corner. The association of this feature with the structure residents cannot be accurately determined given the available information.

Structure 32
Construction: Post.
Plan View: Probably square with rounded corners.
Wall Dimensions: Unknown.
Wall Post Diameter: Range from 11 cm to 18 cm along west wall remnant.
Wall Post Interval: Unknown.
Interior Support Post Diameter: Unknown.
Key Features: None.
Remarks: Structure 32 was uncovered next to the library building pad. A partial wall and amorphous post pattern minimally defined this structure. No habitation features or associated artifacts were recorded during the investigation.

Structure 33
Construction: Post.
Plan View: Unknown.
Wall Dimensions: Unknown.

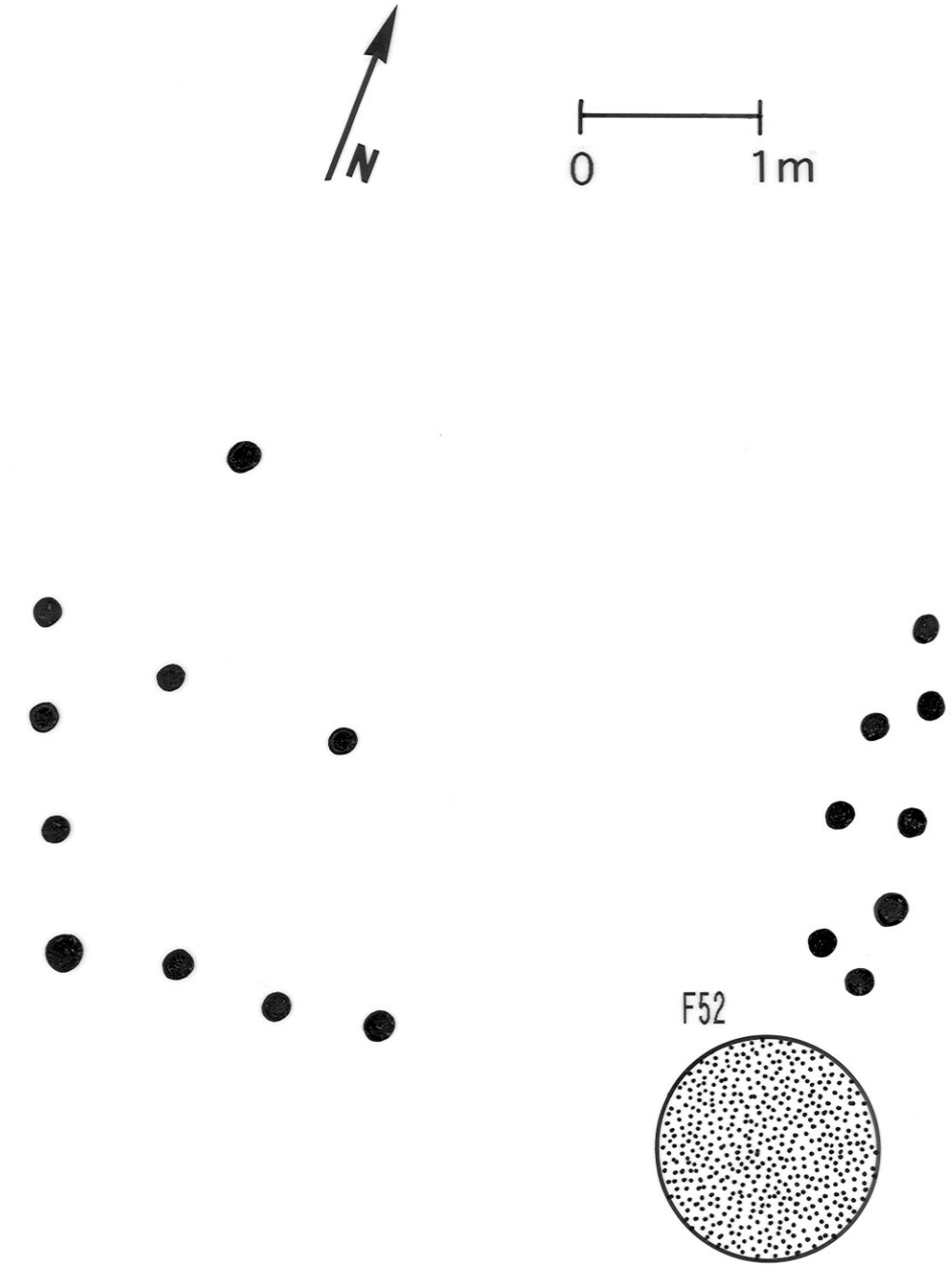

Figure 51. Structure 31 plan-view.

Wall Post Diameter: Possible range from 14 cm to 21 cm.
Wall Post Interval: Unknown.
Interior Support Post Diameter: Unknown.
Key Features: None.
Remarks: Structure 33 was identified as a disjointed configuration of posts found south of Structure 34 and west of Structure 29. Although clearly the location of a structure, the odd post pattern makes any type of definitive interpretation somewhat problematic.

Structure 34 (Figure 52)
Construction: Post.
Plan View: Square with rounded corners.
Wall Dimensions: At least 5.0 meters.
Wall Post Diameter: Range from 12 cm to 20 cm.
Wall Post Interval: Range from 20 cm to 70 cm.
Interior Support Post Diameter: Southeast support post (Feature 1908) measures 27 cm.
Key Features: One stone-box grave (Burial 60), and the southeast support post (Feature 1908).
Remarks: One wall section, one support post, and several interior posts defined Structure 34 along the edge of the northern construction border. Most of the eastern structure appeared to be outside the active construction zone. The western part of this structure, however, was likely destroyed by the main access road leading into the construction area.

One stone-box grave had been placed very close to the south wall (possibly the southwest corner?). This infant burial was capped with four layers of limestone. No grave goods were recovered from the coffin.

Structure 35
Construction: Post.
Plan View: Unknown.
Wall Dimensions: Unknown.
Wall Post Diameter: Unknown.
Wall Post Interval: Unknown.
Interior Support Post Diameter: Unknown.
Key Features: One interior hearth (Feature 2528).
Remarks: A puddled clay hearth exposed by construction activity initially defined Structure 35. This particular locale was adjacent to the access road for the library building pad, and had been driven over by heavy trucks filled with rock. Project constraints required this area to be avoided until a later date. Additional investigation at the end of the project managed to identify a scattering of posts, but no definite structural pattern.

Feature 2528 comprised a circular hearth of puddled clay measuring 45 cm in diameter. Unfortunately, this hearth received minimal attention due to more pressing project concerns.

Structure 36 (Figure 53)
Construction: Post.
Plan View: Square with rounded corners.
Wall Dimensions: 5.9 meters to 6.4 meters.
Wall Post Diameter: Range from 10 cm to 20 cm.

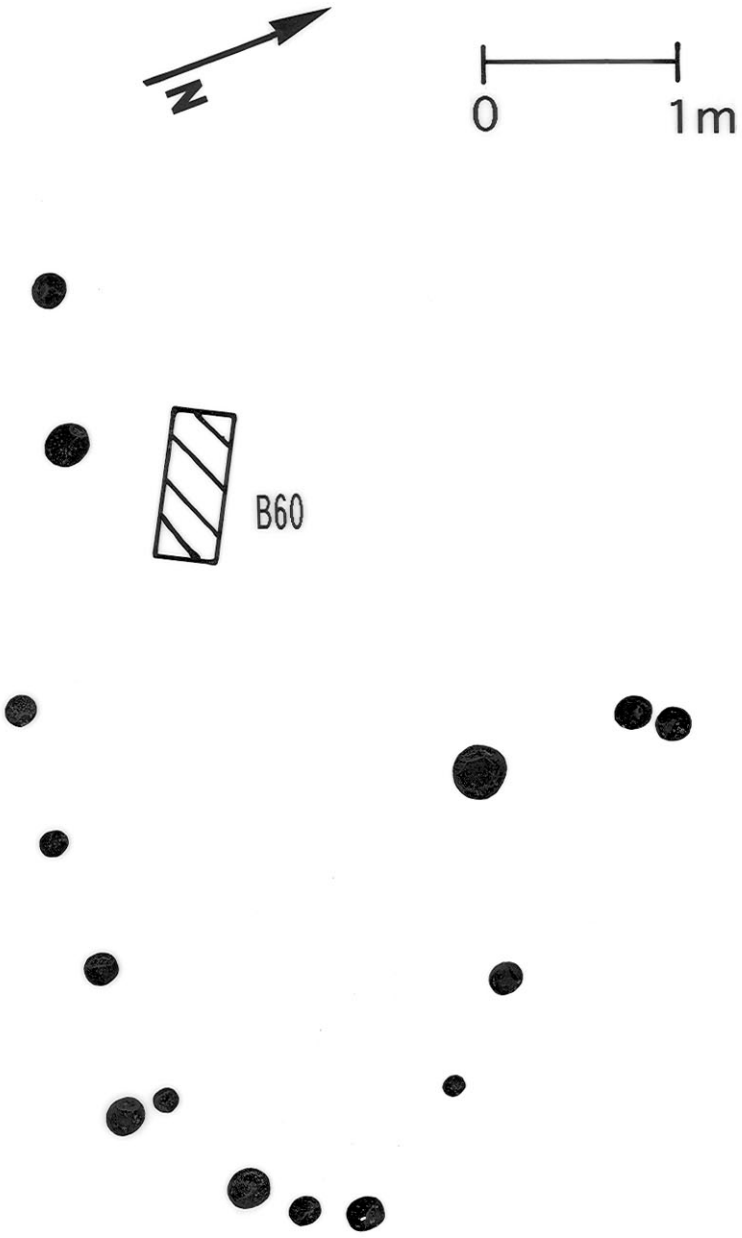

Figure 52. Structure 34 plan-view.

Wall Post Interval: Range from 10 cm to 80 cm, most from 30 cm to 60 cm.

Interior Support Post Diameter: Two north support posts (Features 2013 and 2015) measure 30 cm, two probable west support posts (Features 1954 and 1955) measure 25 cm, and possible east support post (Feature 1966) measures 25 cm.

Key Features: One burned limestone cluster (Feature 1969), and two north support posts (Features 2013 and 2015).

Remarks: This building location was recorded at the far north end of the exposed habitation zone, adjacent to the construction border. Stripping activity within the Structure 36 area identified a plethora of postholes indicative of (at least) two construction episodes. The post pattern appears to signify either: (1) the reconstruction and expansion of an initial structure; or (2) construction of more than one structure built on the same spot. One structure was square (with rounded corners), and rather small with walls measuring 5.0 meters on a side. A second structure, with a maximum dimension of 6.4 meters, displayed northwest and northeast walls built one meter out from the original structure walls. The southeast wall (at least the east corner) may have been partially rebuilt, along with minimal evidence for work on the southwest wall. Multiple north (and probable west) interior support posts are visible. Numerous other interior (wall and/or partition) posts are also present.

The circular cluster of (tabular) burned limestone (Feature 1969) likely comprises a central hearth. The cluster diameter of 35 cm is comparable to the measurements of other structure hearths from the site.

Laboratory analysis of the post pattern for Structure 36 identified the partial post pattern of another building. Structure 67 was defined by an arc of posts adjacent to the southeast wall towards the east corner. This arc of posts bends away from the southeast wall of Structure 36. Unfortunately, the vast majority of Structure 67 fell under (was destroyed by) the main access road into the construction zone (see Structure 34 remarks).

Structure 37 (Figures 54 and 55)

Construction: Unknown.

Plan View: Unknown.

Wall Dimensions: Unknown.

Wall Post Diameter: Unknown.

Wall Post Interval: Unknown.

Interior Support Post Diameter: Unknown.

Key Features: One hearth (Feature 1914).

Remarks: An unusual hearth of prepared clay comprised the only evidence of Structure 37. Feature 1914, located several meters south of Structure 36, was initially defined in a cut bank of the main road leading to the library building pad. Further examination revealed about one-half of the hearth still intact within the road itself. A profile of the road cut revealed a bell-shaped, puddled clay hearth similar to that defined for the Structure 25 south hearth (see Figure 50). The crown of this circular hearth presented a somewhat rolled appearance, and doesn't look to have been disturbed by modern construction activity. Measuring 37 cm in diameter at the crown, the clay walls flared outward, reaching a maximum diameter of 54 cm at 30 cm deep. The hearth walls consisted of a coating of puddled clay. In some areas this clay coating was fairly thick (up to 12 cm). These walls abruptly terminated at the base, which was generally flat and defined by the yellow clay subsoil. The base had not been substantially burned (drawing favorable comparisons with the Structure

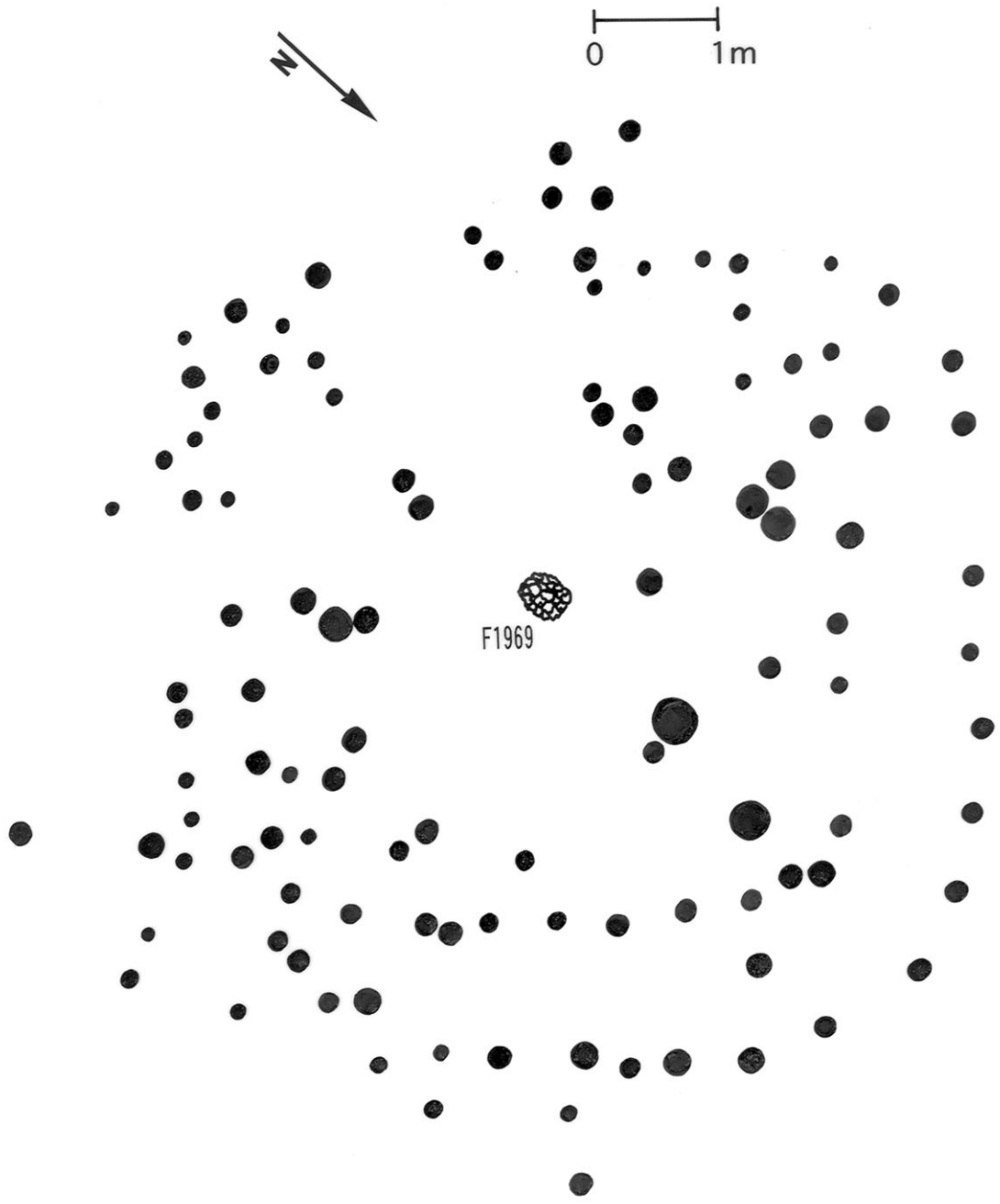

Figure 53. Structure 36 plan-view.

Figure 54. Structure 37 hearth in cut bank of road to library building pad.

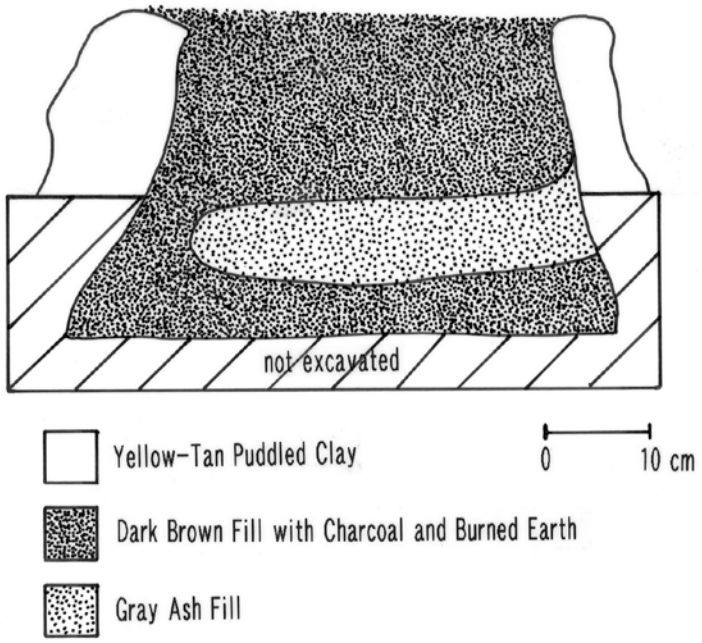

Figure 55. Structure 37 hearth, west-southwest profile.

25 south hearth). Also, stratified layers of fill occupied the hearth. These layers contained substantial amounts of charcoal, ash, and burned earth.

Unfortunately, this hearth was destroyed prior to being completely excavated. Heavy rain required that work on this feature be stopped for the day. Upon returning to the site, this feature (and much of the surrounding vicinity) had been covered with a rock pad.

Structure 38

Construction: Post.
Plan View: Square with rounded corners.
Wall Dimensions: At least 5.5 meters.
Wall Post Diameter: Range from 15 cm to 20 cm.
Wall Post Interval: Range from 10 cm to 70 cm.
Interior Support Post Diameter: Possible south support post (Feature 2053) measures 22 cm, and possible east support post (Feature 2038) measures 23 cm.
Key Features: One interior hearth (Feature 2059).
Remarks: The southeast quarter of this building was exposed immediately west of Structure 36 along the northern construction border. Most of the northern portion fell outside the library construction zone and was undisturbed. However, the southwest section was destroyed by the temporary ramp leading to the library building pad.

Inside the partial post pattern was a circular hearth (Feature 2059) measuring 40 cm in diameter. This particular hearth did not display walls of puddled clay. The hearth walls were steeply sloped, and defined by the yellow clay subsoil. The base was flat, also defined by yellow clay subsoil.

Structure 39

Construction: Post.
Plan View: Square?
Wall Dimensions: At least 3.0 meters.
Wall Post Diameter: Range from 13 cm to 30 cm.
Wall Post Interval: Range from 20 cm to 80 cm.
Interior Support Post Diameter: Possible support post (Feature 2096) measures 19 cm.
Key Features: None.
Remarks: Structure 39 comprised the smallest building uncovered during the 1997 investigations. About two-thirds of this structure was exposed along the southeast construction border. The remaining one-third fell outside the library construction zone.

With walls measuring 3.0 meters long, Structure 39 does not represent a typical Mississippian domestic house. The Structure 39 post pattern more likely depicts a special residence, or possibly some type of outbuilding. The presence of one support post at the structure center (flanked by one post on each side near the wall, set at an equal distance) bolsters this interpretation. No artifactual material was recovered from this building.

Structure 40 (Figure 56)

Construction: Post.
Plan View: Square with rounded corners.
Wall Dimensions: At least 6.0 meters.
Wall Post Diameter: Range from 12 cm to 25 cm.
Wall Post Interval: Range from 10 cm to 50 cm.

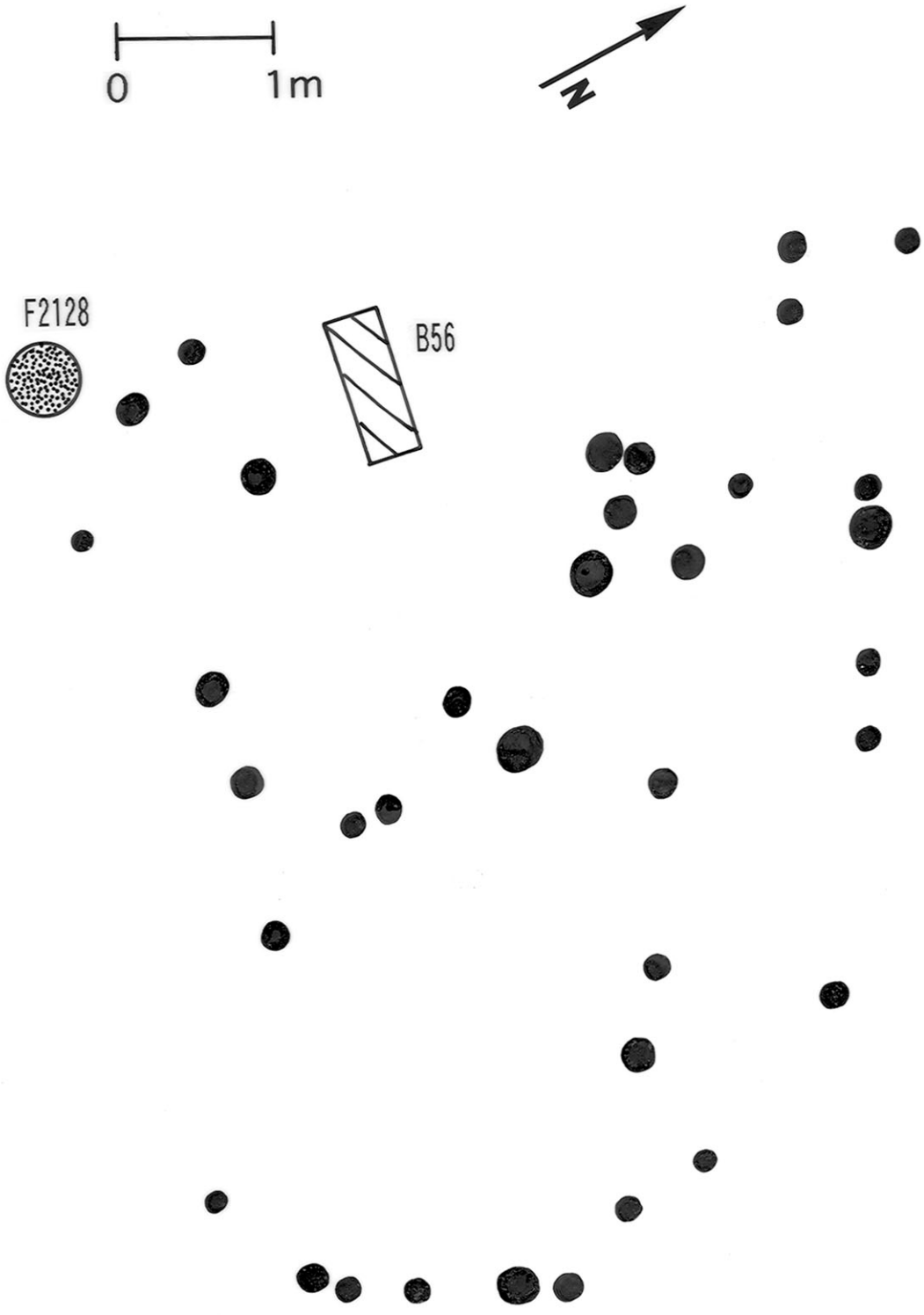

Figure 56. Structure 40 plan-view.

Interior Support Post Diameter: Possible interior supports (Feature 2115 and 2117) measure 25 cm.

Key Features: One stone-box burial (Burial 56).

Remarks: Structure 40 was identified just north of the large modern dump at the southern end of the exposed habitation zone. Structure 7 occurs immediately east of (and partially overlaps) this building.

The post pattern defined as Structure 40 possibly includes the remnants of several different buildings constructed at the same location. One distinct corner section (probable square structure with rounded corners) overlaps the southwest corner of Structure 7. At least one other wall section was present just outside the southwest corner of Structure 7.

Burial 56 comprised a stone-box grave with the fragmented remains of an infant. If this burial was associated with the distinct corner section, then the grave location would have been near the (inferred) west wall of Structure 40. No associated grave items were recovered with this individual.

A small, circular pit feature (Feature 2128) was also recorded with the post pattern. Aside from the minimal consultant investigation (to ascertain if this was a burial), no additional information was retrieved from this feature. Whether or not this pit was related to the structure residents remains a problematic question.

Structure 41

Construction: Post.

Plan View: Square with rounded corners.

Wall Dimensions: At least 6.0 meters.

Wall Post Diameter: Range from 13 cm to 25 cm.

Wall Post Interval: Range from 30 cm to 70 cm.

Interior Support Post Diameter: Unknown.

Key Features: None.

Remarks: A partial structure pattern along the eastern edge of the exposed habitation zone (just north of Structure 18) defined Structure 41. Portions of the west and north walls were present, with no evidence of the south wall. The somewhat linear row of posts along the east side (perpendicular to the north wall) does not comprise an east wall.

Feature 46 among the eastern posts was minimally evaluated during the project. No additional work was performed after the consultant determined this feature was not a burial. The consultant retrieved a sparse number of lithic and ceramic artifacts.

Structure 42 (Figure 57)

Construction: Post.

Plan View: Square with rounded corners.

Wall Dimensions: 5.8 meters.

Wall Post Diameter: Range from 12 cm to 22 cm.

Wall Post Interval: Range from 30 cm to 60 cm.

Interior Support Post Diameter: Southwest support post (Feature 2221) measures 25 cm. Southeast support post (Feature 2220) measures 30 cm. Northeast support post (Feature 2224) measures 25 cm.

Key Features: Southwest support post (Feature 2221), southeast support post (Feature 2220), and northeast support post (Feature 2224).

Remarks: Structure 42, defined at the northernmost point of the exposed habitation zone, comprised a nice example of Mississippian period architecture. This building

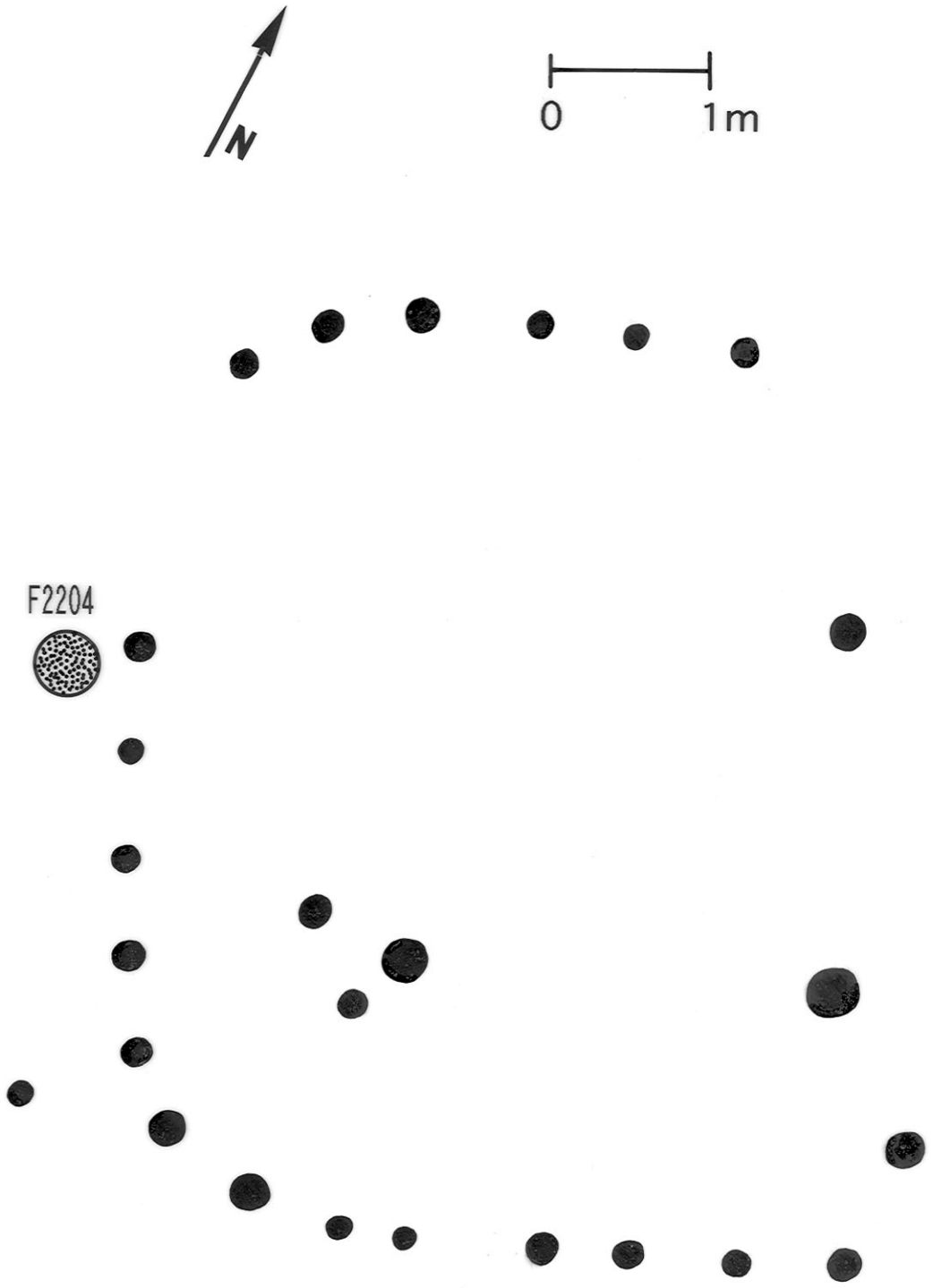

Figure 57. Structure 42 plan-view.

(excluding the east wall) was represented by a clean, symmetrical post pattern. No evidence of wall repair or reconstruction was observed.

Structure 43

Construction: Post.
Plan View: Unknown.
Wall Dimensions: Unknown.
Wall Post Diameter: Unknown.
Wall Post Interval: Unknown.
Interior Support Post Diameter: Unknown.
Key Features: None.
Remarks: Structure 43 was identified by a partial post pattern discovered adjacent to the southeast corner of the library construction pad. Much of this particular area had been severely disturbed by early construction activity. An investigation of this area during the later stages of the project revealed several disjointed rows of posts.

Structure 44 (Figure 58)

Construction: Post.
Plan View: Square with rounded corners.
Wall Dimensions: At least 6.0 meters.
Wall Post Diameter: Range from 15 cm to 20 cm.
Wall Post Interval: Range from 20 cm to 60 cm.
Interior Support Post Diameter: Unknown.
Key Features: One stone-box grave (Burial 15).
Remarks: Structure 44 was found near the southeast boundary of the exposed habitation zone. The northeast corner, and part of the east wall, was recorded during the investigations. The post pattern was consistent with a single construction episode.

The disturbed remains of an infant were present inside a stone-box grave (Burial 15) near the north wall. This particular burial exhibited a ceramic floor, but yielded no associated grave goods.

Structure 45 (Figure 59)

Construction: Post.
Plan View: Square with rounded corners.
Wall Dimensions: 4.3 meters to at least 4.6 meters.
Wall Post Diameter: Range from 9 cm to 20 cm.
Wall Post Interval: Range from 20 cm to 70 cm.
Interior Support Post Diameter: Unknown.
Key Features: None.
Remarks: The second smallest structure recorded during the 1997 investigations was Structure 45. This well-defined building had been constructed on the low ridge behind the proposed library building. The north wall and northeast corner were missing from the post pattern.

Structure 46

Construction: Post.
Plan View: Square with rounded corners.
Wall Dimensions: At least 6.2 meters.
Wall Post Diameter: Range from 8 cm to 16 cm.
Wall Post Interval: Range from 10 cm to 1.2 meters, most from 30 cm to 70 cm.

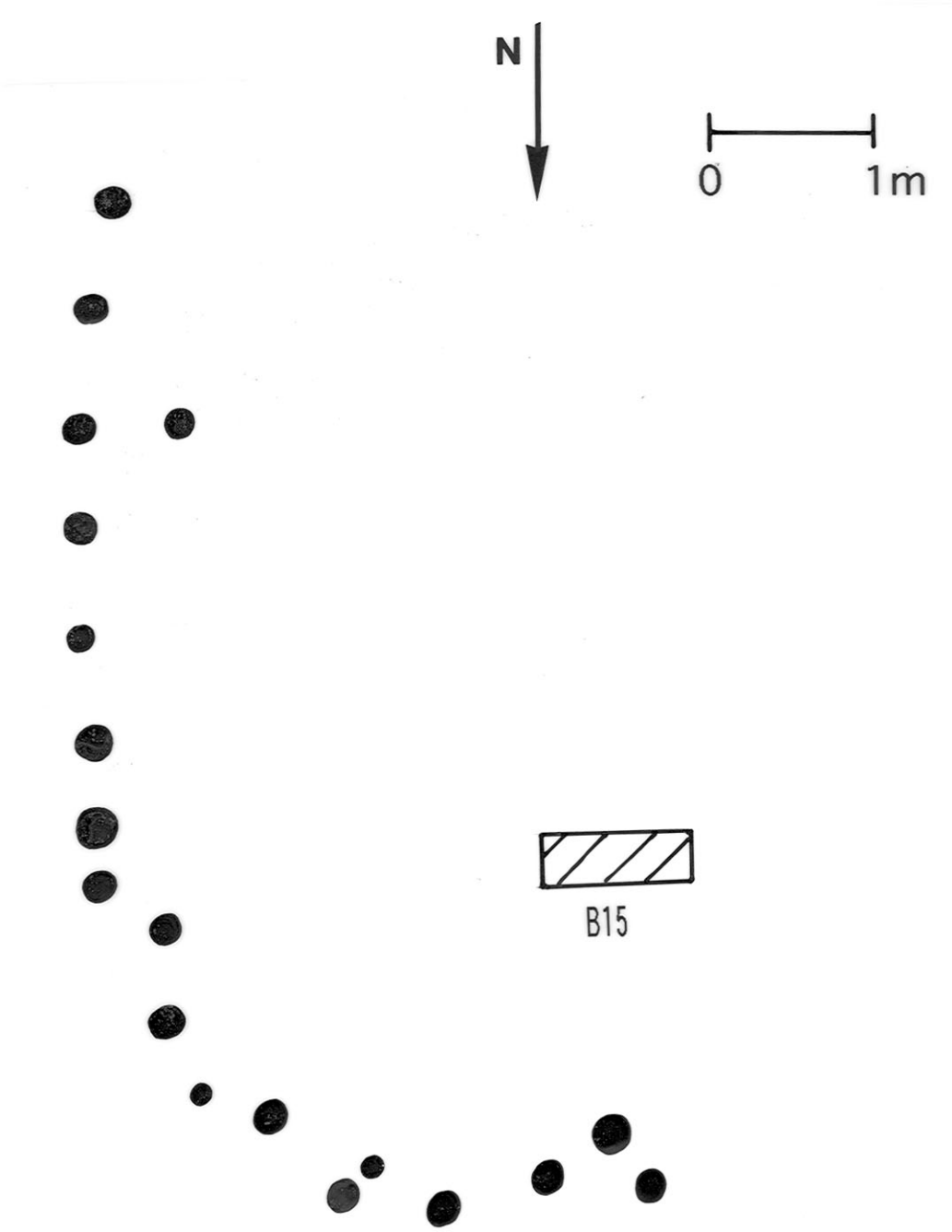

Figure 58. Structure 44 plan-view.

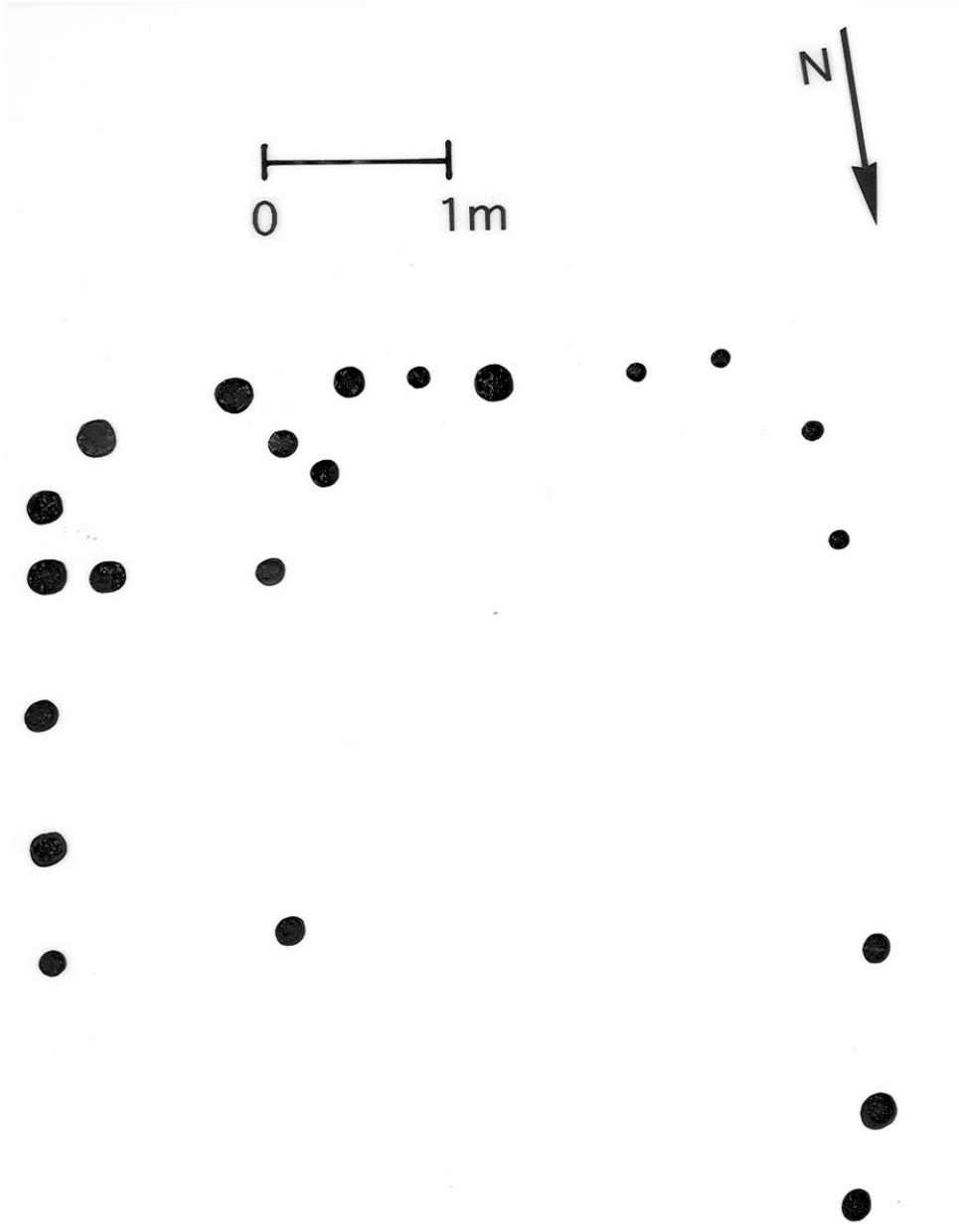

Figure 59. Structure 45 plan-view.

Interior Support Post Diameter: Unknown.
Key Features: None.
Remarks: Structure 46 was also recorded on the hill behind the proposed library building, roughly 15 meters north of Structure 45 and ten meters east of Structure 49. A partial post pattern, specifically the northwest corner and most of the north wall, defined this domestic structure. Two rows of posts along the west wall remnant indicated repair activity. Only one row was visible for the north wall.

Structure 47
Construction: Post.
Plan View: Unknown.
Wall Dimensions: Unknown.
Wall Post Diameter: Unknown.
Wall Post Interval: Unknown.
Interior Support Post Diameter: Unknown.
Key Features: One stone-box grave (Burial 68).
Remarks: An amorphous post pattern on the hill behind the library building, found about seven meters northwest of Structure 45 and five meters southwest of Structure 46, was designated Structure 47. This location was immediately adjacent to the construction boundary and disturbed by heavy machinery.

A stone-box grave (Burial 68) was recorded with the posts. This infant burial yielded a notched rim bowl and numerous (marine) shell beads.

Structure 48 (Figure 60)
Construction: Post.
Plan View: Square with rounded corners.
Wall Dimensions: 5.0 meters.
Wall Post Diameter: Range from 13 cm to 17 cm.
Wall Post Interval: Range from 20 cm to 50 cm.
Interior Support Post Diameter: Unknown.
Key Features: Unknown.
Remarks: Structure 48 was located between the two palisade lines on the southeast margin of the exposed habitation zone. The west wall of this building overlapped the interior palisade line and bastion. All but the northwest corner was (at least) partially defined. No artifacts were recovered from this locale.

Structure 49 (Figure 61)
Construction: Post.
Plan View: Square to square with rounded corners.
Wall Dimensions: 6.5 meters.
Wall Post Diameter: Range from 11 cm to 20 cm.
Wall Post Interval: Range from 10 cm to 80 cm, most fall between 20 cm to 50 cm.
Interior Support Post Diameter: Northeast support post (Feature 2388) measures 23 cm. Southwest support post? (Feature 2411) measures 25 cm. The northwest support post (Features 2405) measures 20 cm.
Key Features: One central hearth (Feature 2412), one burned limestone cluster (Feature 2393), one stone-box grave (Burial 86), northeast support post (Feature 2388), southwest support post? (Feature 2411), and northwest support post (Features 2405).
Remarks: This fine example of Mississippian architecture was found on the hill behind the proposed library building. The southern boundary of the construction zone cut

Figure 60. Structure 48 plan-view.

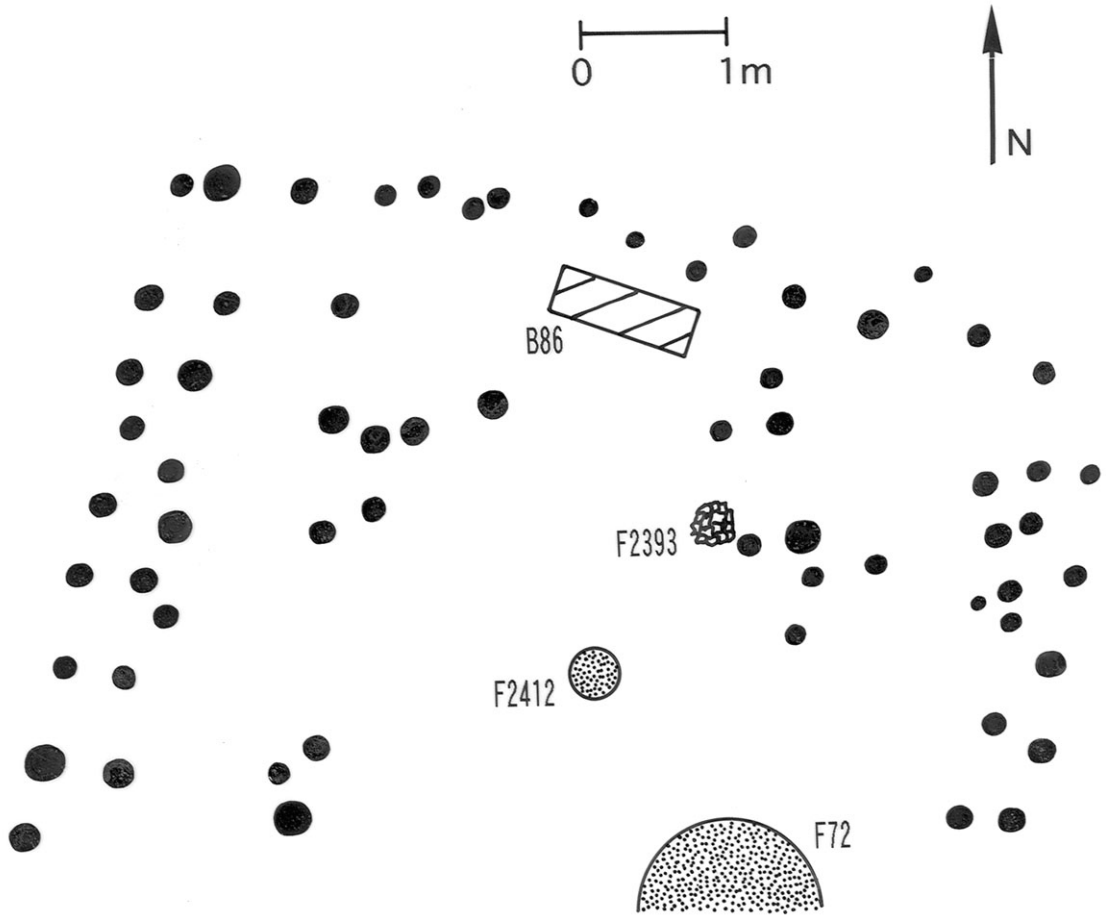

Figure 61. Structure 49 plan-view.

across the southern end of Structure 49. The visible post pattern outlined a building with at least one rebuilding episode, especially along the east and west walls. Also, each central support post was reinforced with several smaller posts.

The base of a circular hearth (Feature 2412) was found in the structure center. This feature measured 25 cm in diameter, and was defined by the remnant of a prepared clay base.

A cluster of burned limestone rocks (Feature 2393) had been placed towards the northeast structure corner, just west of the northeast support post. This somewhat circular cluster was similar to other noted across the site and measured 25 cm in diameter.

Burial 86 comprised a rectangular stain along the center of the north wall. This particular burial appeared to have been a stone-box grave with all of the skeletal remains (and even the stones) completely removed by looters. The length and width of the stain suggested the grave was that of a child. No associated grave items were present.

About one-half of a pit feature (Feature 72) was exposed near the southeast structure corner. Circular in plan-view, this pit measured 1.2 meters in diameter and 23 cm deep. Whether or not this pit was constructed and/or used by the structure residents cannot be answered at this time.

Structure 50

Construction: Unknown.
Plan View: Unknown.
Wall Dimensions: Unknown.
Wall Post Diameter: Unknown.
Wall Post Interval: Unknown.
Interior Support Post Diameter: Unknown.
Key Features: One hearth (Feature 2431), and one stone-box burial (Burial 83).
Remarks: An isolated hearth and burial uncovered on the hill between Structures 49 and 51 minimally defined Structure 50. This locale had been severely disturbed by earthmoving activity towards the end of the project. There was simply no opportunity to define the structure post pattern.

Feature 2431 comprised an unusual oval hearth measuring 70 cm (east to west) by 35 cm (north to south). The hearth was initially defined by an oval ring of puddled clay (several centimeters thick) containing a dark fill with ash and flecks of wood charcoal. A cross-section of this hearth displayed steep side walls terminating at a rather flat base. The puddled clay liner observed at the ground surface ended just before the base. A very thin, but discontinuous, layer of baked (puddled?) clay could be observed at the base. Interestingly, the yellow clay subsoil under the hearth base displayed no visible signs of heat exposure.

The stone-box grave (Burial 83) contained the remains of a young child. No grave items were recovered during the removal.

Structure 51 (Figure 62)

Construction: Post.
Plan View: Square with rounded corners.
Wall Dimensions: 6.0 meters.
Wall Post Diameter: Range from 10 cm to 18 cm.
Wall Post Interval: Range from 30 cm to 70 cm.
Interior Support Post Diameter: Two possible interior support posts (Features 2435 and 2444) measure 30 cm.

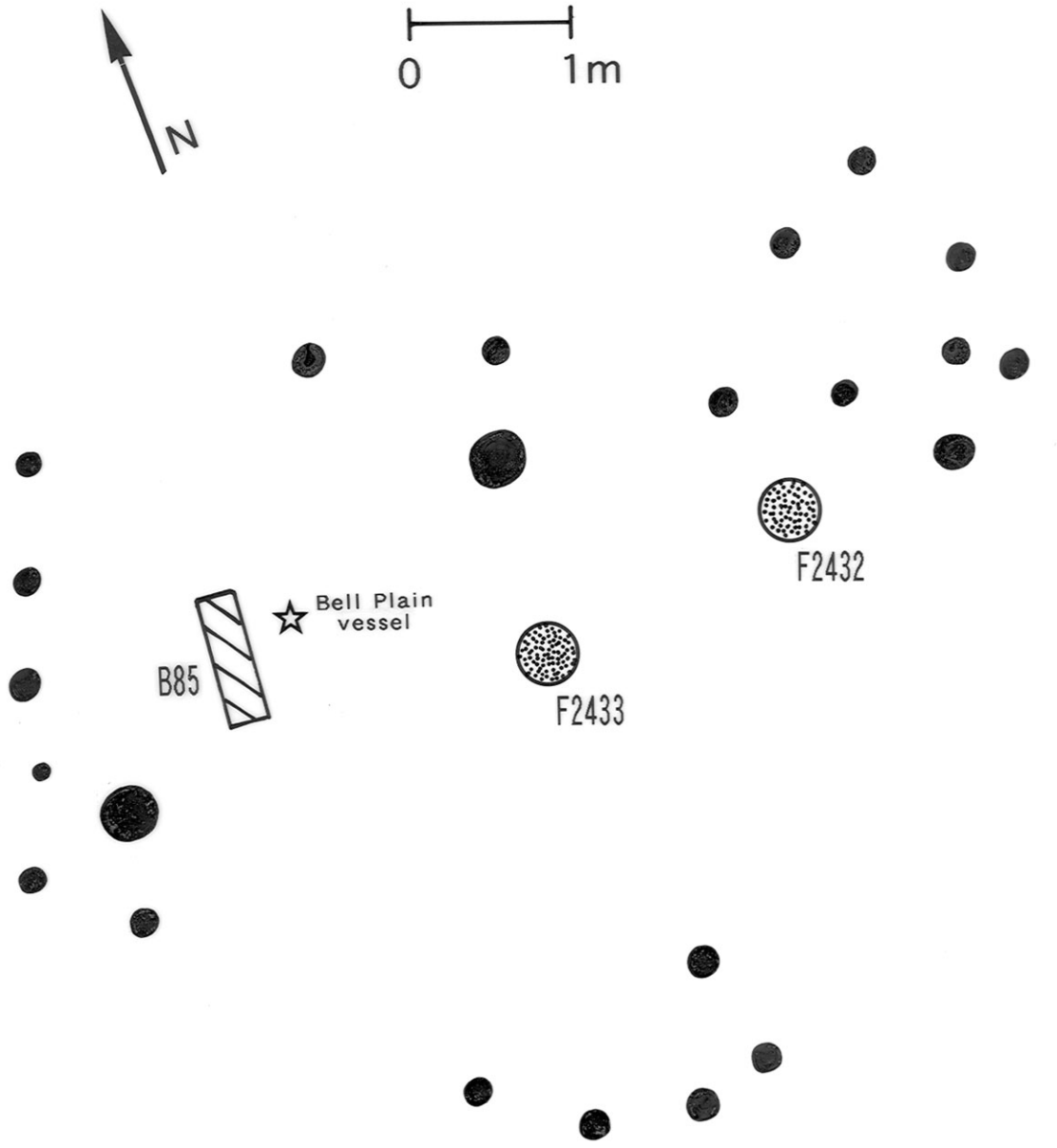

Figure 62. Structure 51 plan-view.

Key Features: Two interior hearths (Features 2432 and 2433), and one stone-box grave (Burial 85).

Remarks: Structure 51 comprised the westernmost structure defined within the library construction zone. Located on the hill behind the library building, this structure was one of two buildings recorded across the site to contain two prepared hearths (the other being Structure 25). Portions of this structure were not identified during the investigation, including the northwest corner, the north wall, and part of the east wall.

The presence of two hearths would seem to indicate multiple structures built at the same location. However, the Structure 51 plan-view does not necessarily support such a suggestion. Only one distinct house pattern was defined during the excavation. In addition, the walls of this single structure exhibit no evidence for refurbishing activity (no multiple lines of posts). And finally, the populous post pattern observed for other site structures with multiple construction episodes does not exist at this location.

Both interior hearths (Features 2432 and 2433) were (generally) circular features of puddled clay measuring 30 cm in diameter. Feature 2433 fell within the structure center, whereas Feature 2432 was located towards the northeast corner. Time constraints prevented more extensive investigation of these features.

Burial 85, placed one meter away from the west wall, accommodated an infant. One shell spoon had been placed on the chest (left side) of this individual.

A Bell Plain vessel was recovered within the western portion of the structure immediately east of Burial 85. The vessel form appeared to be that of a jar, although the fragmented nature of the sherds has made this assessment somewhat tentative.

Structure 52

Construction: Unknown.

Plan View: Unknown.

Wall Dimensions: Unknown.

Wall Post Diameter: Unknown.

Wall Post Interval: Unknown.

Interior Support Post Diameter: Unknown.

Key Features: One hearth (Feature 2458).

Remarks: A puddled clay hearth (Feature 2458) exposed five meters north of Structure 51 (on the hill behind the library building) was deemed enough evidence for the designation of Structure 52. Most the Structure 52 locale fell immediately adjacent to the library building pad, and had been damaged by previous construction activity. This well-constructed (puddled clay), circular hearth measured 35 cm in diameter. A profile of this feature determined most of the hearth had been removed, with only a few centimeters of fill remaining. The base was flat, and composed of a thick, puddled clay.

Structure 53

Construction: Post.

Plan View: Square with rounded corners?

Wall Dimensions: Unknown.

Wall Post Diameter: Unknown.

Wall Post Interval: Unknown.

Interior Support Post Diameter: Unknown.

Key Features: None.

Remarks: Structure 53 was defined by a minimal, but isolated post pattern roughly six meters east of the Structure 52 hearth. This pattern, found on the hill adjacent to the

library pad, possibly represents a structure corner. One large post (Feature 2463) measuring 30 cm in diameter did occur inside the presumed corner.

Structure 54 (Figure 63)

Construction: Unknown.
Plan View: Unknown.
Wall Dimensions: Unknown.
Wall Post Diameter: Unknown.
Wall Post Interval: Unknown.
Interior Support Post Diameter: Unknown.
Key Features: One hearth (Feature 2467).
Remarks: Grading activity just south of the library building pad exposed a hearth designated as Structure 54. Additional investigation of the area surrounding the hearth discovered the remnant of a prepared clay floor. Located about one meter south of the hearth, this remnant was defined by a hard, flat, and smooth section of puddled clay that was black in color. This somewhat rectangular floor section measured 1.0 meters (north to south) by 1.4 meters (east to west).

A large, circular pit feature (Feature 107) was also discovered during the investigation. The southwest portion of this pit was under the previously discussed clay floor remnant. Obviously this pit predated the Structure 54 occupation.

Feature 2467 comprised the base of a circular hearth. This feature of puddled clay measured 30 cm in diameter. Several centimeters of fill, consisting of ash and charcoal flecks, were present on top of the flat base.

Two artifacts were found near the hearth. The fragmented remains of a frog effigy jar (Mississippi Plain paste) were uncovered 20 cm northwest of the hearth, whereas a sandstone abrader was identified 70 cm west of the hearth.

Structure 55

Construction: Post.
Plan View: Unknown.
Wall Dimensions: Unknown.
Wall Post Diameter: Range from 10 cm to 18 cm.
Wall Post Interval: Range from 20 cm to 50 cm.
Interior Support Post Diameter: Unknown.
Key Features: None.
Remarks: Structure 55 was marked by a single row of posts (possible corner?) along the extreme southeast edge of the exposed habitation area. Most of the building post pattern remained outside the library construction zone.

Structure 56

Construction: Post.
Plan View: Unknown.
Wall Dimensions: Unknown.
Wall Post Diameter: Unknown.
Wall Post Interval: Unknown.
Interior Support Post Diameter: Unknown.
Key Features: One stone-box grave (Burial 90).
Remarks: An infant stone-box burial and three postholes minimally defined Structure 56. This building was located near the southeast edge of the exposed habitation area, about two meters north of Structure 55. Limited archaeological investigation was performed at this locale since it fell outside the active construction zone.

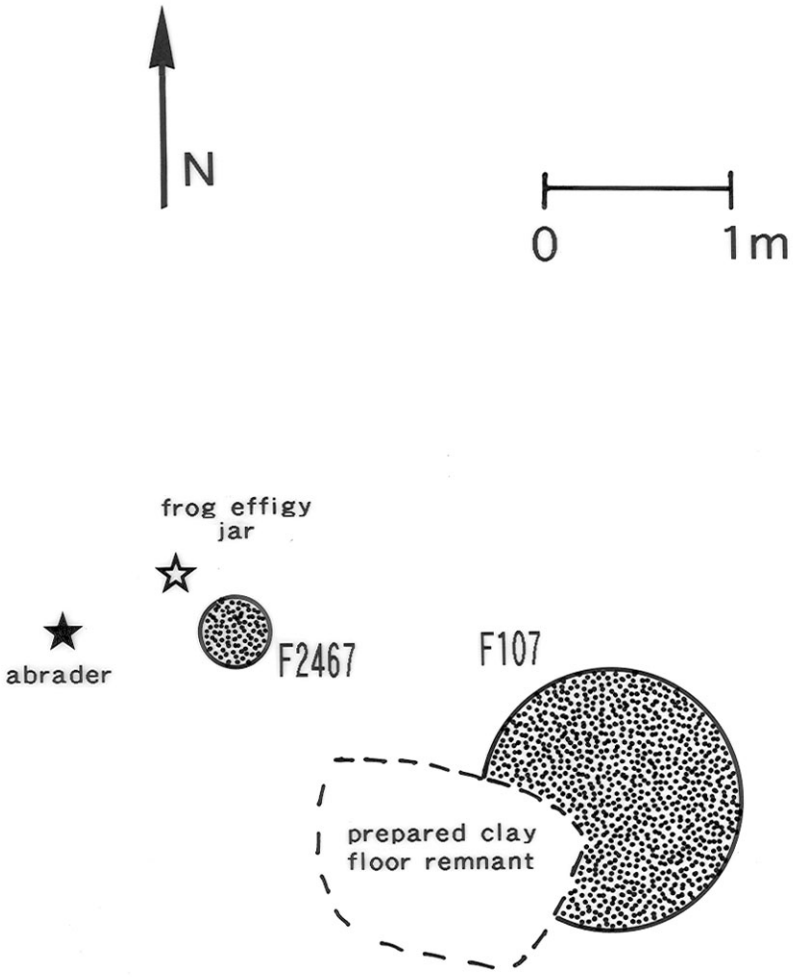

Figure 63. Structure 54 plan-view.

Burial 90 contained the remains of an infant. No associated grave items were recovered from this interment.

Structure 57 (Figure 64)

Construction: Post.
Plan View: Unknown.
Wall Dimensions: Unknown.
Wall Post Diameter: Unknown.
Wall Post Interval: Unknown.
Interior Support Post Diameter: Unknown.
Key Features: One hearth (Feature 2482).
Remarks: An oval hearth and a minimal number of posts were exposed along the southeast edge of the exposed habitation area. These features, defined as Structure 57, were found about five meters southeast of Structure 19, and nearly ten meters south of Structure 44. The area east of the hearth fell outside the active construction zone, and was not investigated. In addition, a group of pit features immediately south of the hearth and posts likely destroyed a portion of this building.

Feature 2482 was defined by an oval ring of puddled-clay measuring 40 cm by 50 cm, similar to the Structure 50 hearth. Unlike the Structure 50 hearth, however, this feature was basin-shaped and completely lined with puddled-clay.

Substantial fragments of a Matthews Incised, *variety Manly* jar were recovered from the hearth fill. A second ceramic vessel (notched-rim bowl) was found 2.5 meters northwest of the hearth. This bowl displayed a Bell Plain paste.

Structure 58

Construction: Post.
Plan View: Square with rounded corners.
Wall Dimensions: Unknown.
Wall Post Diameter: Unknown.
Wall Post Interval: Unknown.
Interior Support Post Diameter: Unknown.
Key Features: Unknown.
Remarks: Structure 58 was exposed by grading activity (and observed by Division personnel) along the southeast boundary of the library building pad (just northwest of Structure 3). The structure was similar in plan-view to other domestic structures identified across the site area. No human burials were observed within the structure. Unfortunately, this location was completely destroyed by construction prior to being mapped.

Structure 59 (Figure 65)

Construction: Post.
Plan View: Unknown.
Wall Dimensions: Unknown.
Wall Post Diameter: Limited wall section ranged from 17 cm to 25 cm.
Wall Post Interval: Limited wall section ranged from 8 cm to 28 cm.
Interior Support Post Diameter: Unknown.
Key Features: One burned limestone cluster (Feature 42), and one stone-box burial (Burial 44).
Remarks: Structure 59 was defined within a severely disturbed section of the site that was just south of the (library building) construction ramp. Heavy traffic (grader and truck) associated with the initial earthmoving activity had compacted the ground

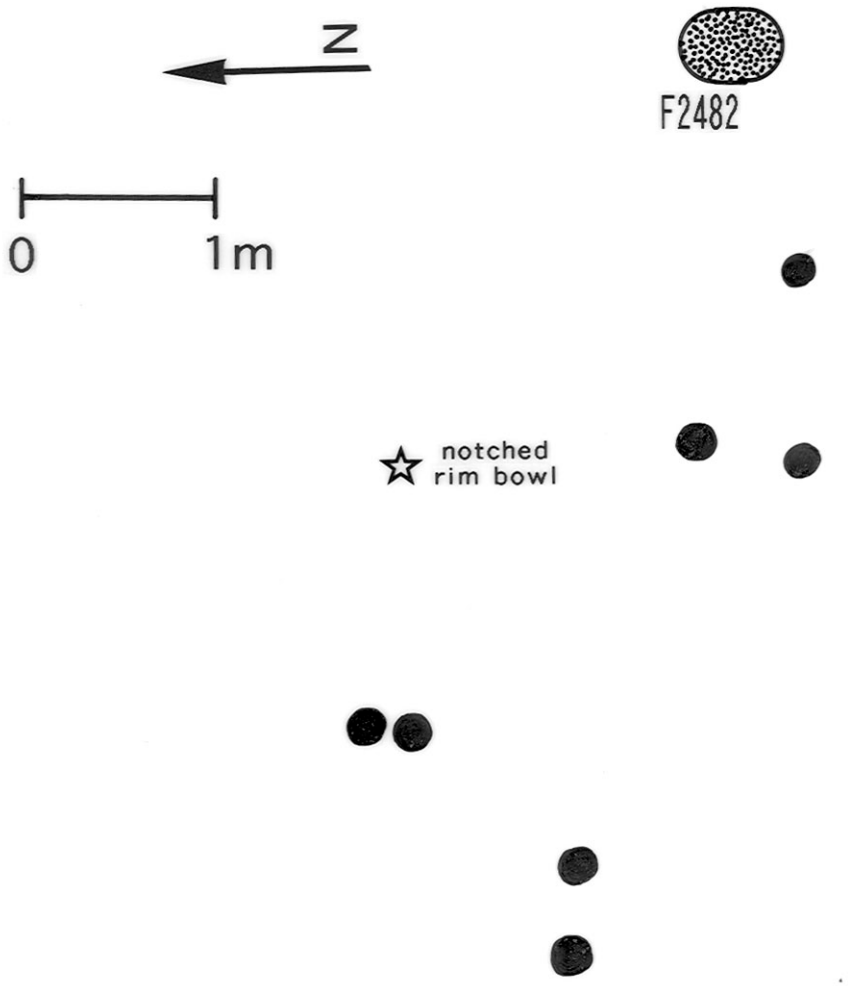

Figure 64. Structure 57 plan-view.

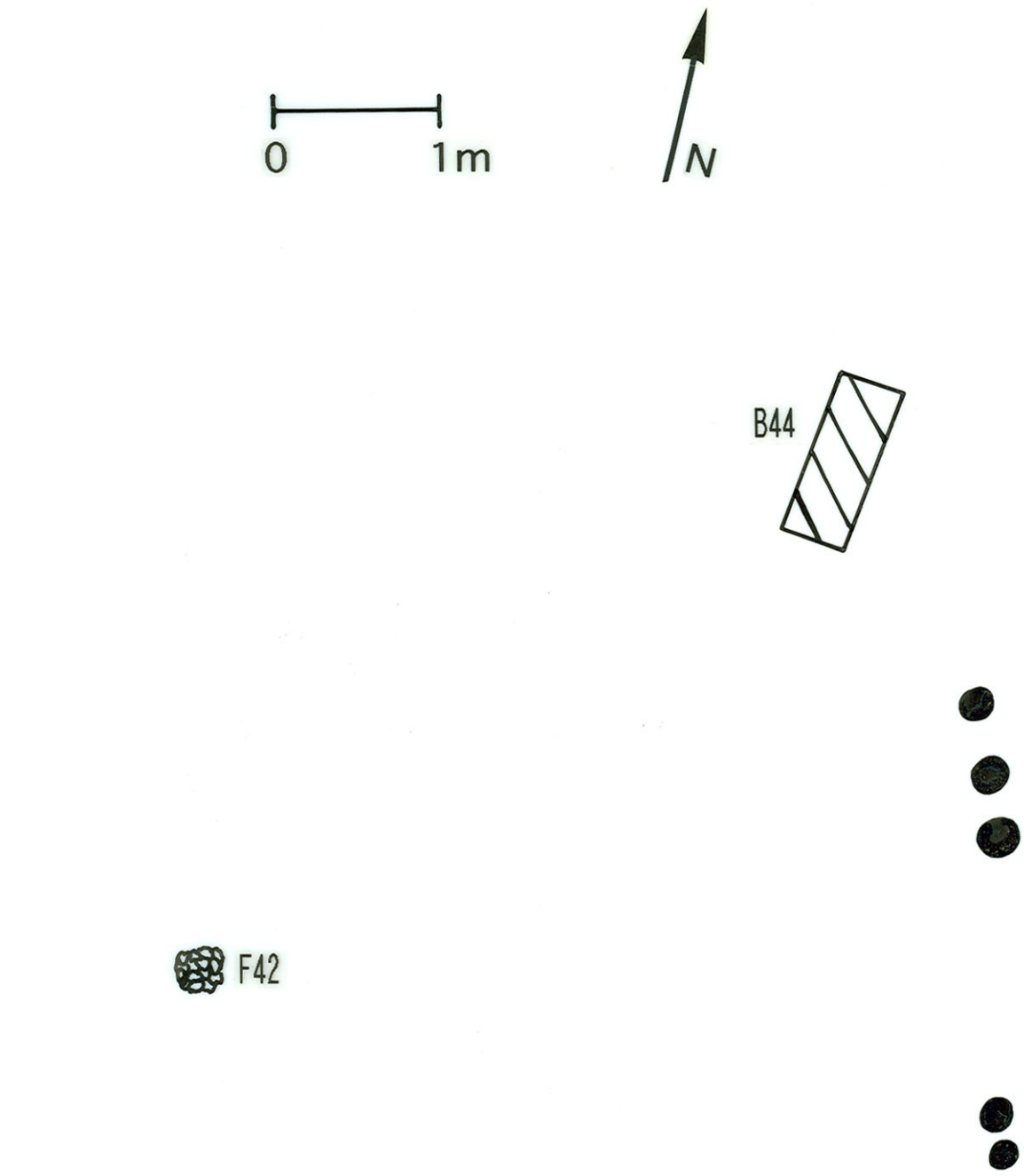

Figure 65. Structure 59 plan-view.

surface within this particular locale and created large ruts. Two cultural features (Feature 42 and Burial 44) had been observed just after the initial construction grading was completed. However, additional investigation of the surrounding area was not conducted until the end of the project. This work exposed a partial building wall just southeast of the burial.

The burned limestone cluster (Feature 42) was similar to such features recorded within other site structures. Somewhat circular in plan-view, Feature 42 measured 30 cm in diameter.

Burial 44 comprised a stone-box grave with the remains of a child. No associated mortuary items were recovered from the coffin. This burial was found about one meter northwest of the wall remnant, and may have been located near the northeast corner of the structure.

Structure 60

Construction: Post.
Plan View: Square with rounded corners.
Wall Dimensions: Unknown.
Wall Post Diameter: Unknown.
Wall Post Interval: Unknown.
Interior Support Post Diameter: Unknown.
Key Features: Unknown.
Remarks: Division personnel observed Structure 60 within the northern habitation area. This building was located north of Structure 10, northeast of Structure 30, southeast of Structure 40, south of Structure 35, and west of Structure 33. Exposed by grading activity, this structure displayed a square (with rounded corners) plan-view. An initial inspection yielded no human burials within the structure. As with Structure 58, however, the Structure 60 locale was destroyed prior to being mapped. Grading activity completely removed all evidence of this structure.

Structure 61

Construction: Post.
Plan View: Square with rounded corners?
Wall Dimensions: Unknown.
Wall Post Diameter: Range from 17 cm to 23 cm.
Wall Post Interval: Range from 20 cm to 70 cm.
Interior Support Post Diameter: Unknown.
Key Features: None.
Remarks: This building was defined by a partial post pattern immediately south of Structure 48 near the palisade lines. The area around Structure 61 was not completely excavated since this location was outside the primary construction zone.

Structure 62

Construction: Post.
Plan View: Square with rounded corners?
Wall Dimensions: Unknown.
Wall Post Diameter: Range from 14 cm to 17 cm.
Wall Post Interval: Range from 30 cm to 80 cm.
Interior Support Post Diameter: Unknown.
Key Features: None.

Remarks: Structure 62 comprised one of three structures identified during the removal of the (library building) construction ramp. This structure, located at the extreme north end of the exposed habitation area, was primarily defined by an isolated row of posts.

Structure 63

Construction: Post.
Plan View: Square with rounded corners.
Wall Dimensions: Unknown.
Wall Post Diameter: Range from 15 cm to 17 cm.
Wall Post Interval: Range from 20 cm to 50 cm.
Interior Support Post Diameter: Unknown.
Key Features: None.
Remarks: Structure 63, also found under the (library building) construction ramp, was defined by a symmetrical corner post pattern. This (north) corner was recorded east of Structure 62 and west of Structure 64.

Structure 64

Construction: Post.
Plan View: Square with rounded corners.
Wall Dimensions: Unknown.
Wall Post Diameter: Range from 10 cm to 21 cm.
Wall Post Interval: Range from 10 cm to 80 cm.
Interior Support Post Diameter: Unknown.
Key Features: None.
Remarks: Structure 64 was also located under the (library building) construction ramp. This building, located about four meters southwest of Structure 36, was defined by a (north) corner post pattern.

Structure 65

Construction: Post.
Plan View: Square with rounded corners.
Wall Dimensions: At least 4.8 meters.
Wall Post Diameter: Range from 10 cm to 20 cm.
Wall Post Interval: Range from 40 cm to 60 cm.
Interior Support Post Diameter: Unknown.
Key Features: None.
Remarks: A review of the Structure 8 field map led to the identification of this building. Structure 65 was observed as a distinct row of posts barely overlapping the southeast corner of Structure 8. The area south of this wall segment was severely disturbed by dumping activity from the previous landowner.

Structure 66

Construction: Post.
Plan View: Unknown.
Wall Dimensions: Unknown.
Wall Post Diameter: Unknown.
Wall Post Interval: Unknown.
Interior Support Post Diameter: Unknown.
Key Features: None.

Remarks: An isolated cluster of posts observed several meters north of Structure 19 was designated as Structure 66. This building was defined in the lab during a review of the Structure 19 field map.

Structure 67

Construction: Post.
Plan View: Square with rounded corners?
Wall Dimensions: Unknown.
Wall Post Diameter: Range from 10 cm to 15 cm.
Wall Post Interval: Range from 10 cm to 50 cm.
Interior Support Post Diameter: Unknown.
Key Features: None.
Remarks: Laboratory analysis of the post pattern for Structure 36 identified the partial post pattern of Structure 67. This building was defined by an arc of posts adjacent to the southeast wall of Structure 36. This arc of posts bends away from the southeast wall of Structure 36. Unfortunately, the vast majority of Structure 67 was probably destroyed by the main access road into the construction zone (see Structure 36 remarks and Figure 53).

V. RADIOCARBON DATES

Michael C. Moore

The Brentwood Library excavations yielded charred floral remains from a variety of feature contexts, including structures, palisades, and refuse-filled pits. Six samples of wood charcoal were prepared and submitted for radiocarbon assay. Three of these samples originated from Structures 2, 3, and 4. The Structure 2 sample derived from a charred timber section on the floor, whereas the samples for Structures 3 and 4 were obtained from interior posts. A fourth sample was obtained from the exterior palisade line (Feature 279, post 180) exposed along the southeastern site boundary. Another two samples originated from refuse-filled pits (Features 10 and 60).

Tables 2 and 3 document the calibrated results for each sample (Stuiver et al. 2002). Figure 66 illustrates the calibrated date ranges. As expected, all six samples yielded calibrated results within the Thruston phase range of A.D. 1250 to 1450. These results place the site (at 1-sigma) between cal A.D. 1298 and 1465.

Table 2. Radiocarbon Dates from the 1997 Excavations at 40Wm210.

		----------Calibrated Results*----------		
Sample No.	Dates BP	1 Sigma	2 Sigma	Provenance
Beta-186724	630 +/- 60	AD 1298 - 1328 AD 1344 - 1394	AD 1281 - 1415	Feature 279 (palisade post)
Beta-186726	610 +/- 50	AD 1302 - 1332 AD 1340 - 1369 AD 1382 - 1398	AD 1292 - 1414	Feature 620 (Structure 4 post)
Beta-186722	580 +/- 50	AD 1305 - 1355 AD 1364 - 1365 AD 1386 - 1410	AD 1299 - 1426	Feature 10 (refuse-filled pit)
Beta-186725	570 +/- 60	AD 1305 - 1355 AD 1363 - 1365 AD 1386 - 1418	AD 1298 - 1436	Feature 60 (refuse-filled pit)
Beta-186727	570 +/- 60	AD 1305 - 1355 AD 1363 - 1365 AD 1386 - 1418	AD 1298 - 1436	Feature 530 (Structure 3 post)
Beta-186723	480 +/- 50	AD 1404 - 1455 AD 1463 - 1465	AD 1323 - 1350 AD 1390 - 1513 AD 1600 - 1615	Structure 2, charred post on floor

* CALIB Radiocarbon Calibration, Version 4.4.2 (Stuiver et al. 2002)

Table 3. Calibrated Results for Radiocarbon Samples from 40Wm210.

186724		
Lab Code		
Radiocarbon Age BP	630 +/- 60	
% area enclosed	cal AD age ranges	relative area under probability distribution
68.3 (1 sigma)	cal AD 1298- 1328	0.377
	1344- 1394	0.623
95.4 (2 sigma)	cal AD 1281- 1415	1.000
186726		
Lab Code		
Radiocarbon Age BP	610 +/- 50	
% area enclosed	cal AD age ranges	relative area under probability distribution
68.3 (1 sigma)	cal AD 1302- 1332	0.393
	1340- 1369	0.397
	1382- 1398	0.210
95.4 (2 sigma)	cal AD 1292- 1414	1.000
186722		
Lab Code		
Radiocarbon Age BP	580 +/- 50	
% area enclosed	cal AD age ranges	relative area under probability distribution
68.3 (1 sigma)	cal AD 1305- 1355	0.657
	1364- 1365	0.021
	1386- 1410	0.322
95.4 (2 sigma)	cal AD 1299- 1426	1.000
186725		
Lab Code		
Radiocarbon Age BP	570 +/- 60	
% area enclosed	cal AD age ranges	relative area under probability distribution
68.3 (1 sigma)	cal AD 1305- 1355	0.596
	1363- 1365	0.019
	1386- 1418	0.385
95.4 (2 sigma)	cal AD 1298- 1436	1.000
186727		
Lab Code		
Radiocarbon Age BP	570 +/- 60	
% area enclosed	cal AD age ranges	relative area under probability distribution
68.3 (1 sigma)	cal AD 1305- 1355	0.596
	1363- 1365	0.019
	1386- 1418	0.385
95.4 (2 sigma)	cal AD 1298- 1436	1.000
186723		
Lab Code		
Radiocarbon Age BP	480 +/- 50	
% area enclosed	cal AD age ranges	relative area under probability distribution
68.3 (1 sigma)	cal AD 1404- 1455	0.982
	1463- 1465	0.018
95.4 (2 sigma)	cal AD 1323- 1350	0.060
	1390- 1513	0.923
	1600- 1615	0.016

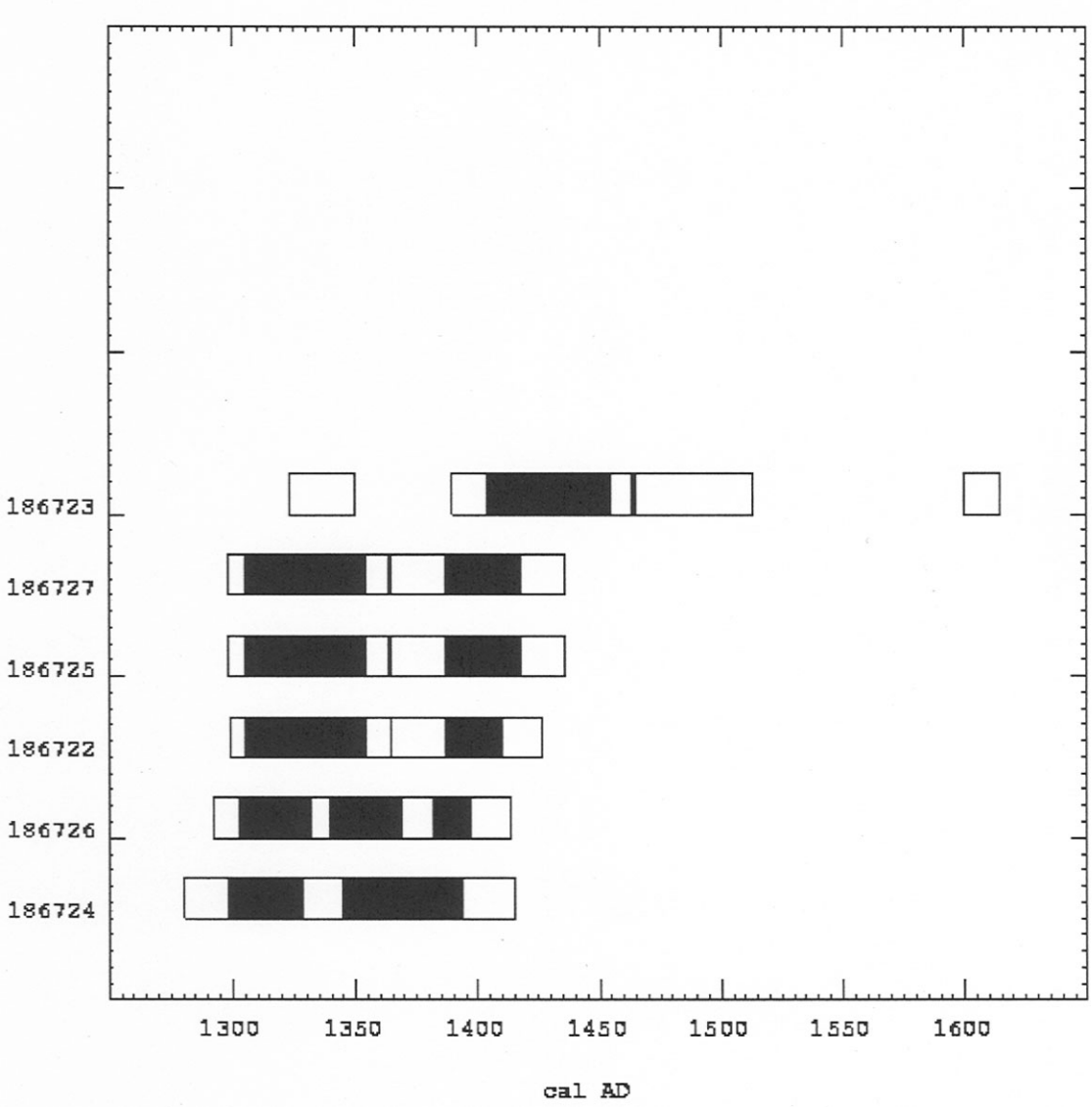

Figure 66. Calibrated ranges of 40Wm210 radiocarbon dates.

VI. MORTUARY ANALYSIS

Emanuel Breitburg and Michael C. Moore

Construction activity precipitated the removal of 66 graves from 40Wm210 between August and November of 1997. Nineteen additional graves within the building and parking lot areas were left in place. An analysis of the exhumed skeletal remains (total of 75 individuals) yielded a demographic profile of the Brentwood Library population. This profile and other bioarchaeological information was then evaluated with mortuary data from five other study area Mississippian sites to present a more comprehensive vision of Middle Cumberland Mississippian populations. The five assemblages used in this comparison were Averbuch (40Dv60), Gordontown (40Dv6), Kelly's Battery (40Dv392), Moss-Wright (40Su20), and Rutherford-Kizer (40Su15).

Limestone slab-lined graves represent the signature characteristic of Mississippian period burials throughout the Middle Cumberland region. More commonly known as "stone-box graves", these interments are part of a much broader regional pattern of Mississippian period mortuary behavior reported elsewhere in the mid-South as well as portions of Kentucky, Ohio, Indiana, and Illinois (Brown 1981; Clay 1984; Dowd 1986; Milner and Schroeder 1992; Putnam 1883b, 1883c; Thruston 1897).

Stone-boxes comprise over 90% of the graves that were removed from the Brentwood Library site area. These graves had been constructed of thin limestone slabs set in a vertical position along the sides, head, and foot of the grave shaft. Horizontally placed slabs (capstones) were then laid across the top to complete the "box". Grave floors were prepared in one of three ways. The most common manner was to leave an unlined floor of earth. A second method was to line the floor with sherds from partial or whole ceramic vessels (often large jars). Yet still another way was to line the floor with the same thin limestone slabs used to construct the coffin. Whether or not stone-box floors were covered with organic materials (such as animal skins or woven mats) that have since decayed cannot be answered at this time.

The limestone used to construct these stone coffins was easily obtained in creek beds and eroded hillsides throughout the study area (Figure 67). Although each stone-box was constructed to accommodate the individual being buried, the effort required to dress the raw material into a useable product would have been minimal due to the manner in which the limestone naturally fractures. Shale was occasionally used for grave construction in the Middle Cumberland region (Moore and Smith 2001). However, no shale was reported for any of the stone-box burials at Brentwood Library.

As previously mentioned, the 1997 removal project exhumed 75 people from 66 graves (Table 4 and Appendix C). Three graves failed to yield skeletal remains. The vast majority of graves were stone-boxes (n=60, 90.9%), followed by unlined pits (n=4, 6.1%) and ceramic vessels (n=2, 3.0%). The preferred burial mode was to lay the individual inside a stone-box coffin in an extended position (Burials 1, 2, 3a, 3b, 6, 7, 8, 12, 13, 14, 15, 31, 36, 37A, 37B, 38, 42A, 42B, 43A, 43B, 44, 45, 48, 53A, 53B, 54, 55, 56, 58, 59, 60, 61B, 64A, 64B, 65, 67, 68, 75, 78, 79, 82, 83, 84A, 84B, 85, 87, 89, and 90). An additional 22 individuals were also buried inside stone-boxes, but their original body position could not be determined due to disturbance by (mostly) heavy equipment

Figure 67. Outcrop of limestone slabs within study area creek bed.

or vandalism (Burials 4, 5, 9, 35, 46, 49, 50, 52, 57A, 57B, 61A, 62, 66A, 66B, 66C, 66D, 66E, 71, 72, 80, 81, and 86).

Three burials (Burials 47, 76, and 77) yielded one individual placed in a flexed position within unlined, round to oval pits. A fourth body (Burial 39) was interred within an unlined pit in an extended position. Pit burials have traditionally been interpreted as an uncommon mode of interment at Middle Cumberland Mississippian sites (Moore and Breitburg 1998). However, relatively recent investigations of study area sites have uncovered a limited number of pit burials in Mississippian context (Jones 2001; Moore and Smith 2001; Moore et al. 1992, Taylor et al. 1990). Given these past site findings, along with the 40Wm210 results, perhaps infrequent is a more appropriate elucidation for the presence of Mississippian pit burials.

Two children (Burials 73 and 74) had been placed either inside or under a ceramic vessel. Burial 73, found inside Structure 24, comprised an infant (or very young child) covered with several large sherds from a ceramic jar. Burial 74 was composed of a moderate-size ceramic jar containing the skeletal remains of an infant. This jar was located inside Structure 20.

Forty-nine stone-box graves at Brentwood Library had just one individual. Three stone coffins had been disturbed and yielded no skeletal material. Multiple individuals were recovered from nine stone-boxes (Burials 37, 42, 43, 53, 57, 61, 64, 66, and 84). Five of these graves (Burials 37, 42, 43, 53, and 61) held the bodies of two very young children, whereas two other graves (Burials 57 and 64) contained the remains of two adults. In contrast, Burial 84 consisted of one adult and one child. Burial 66 yielded the

Table 4. Summary of Human Burials Removed During the 1997 Investigation.

DuVall Bur No.	Burial Type	Body Position	Grave Floor	Grave Goods	Sex	Age	Comments
1	stone-box	extended	pottery	none	M	40 yrs +/- 5 yrs	Fragmentary skeletal remains. Multiple caries observed. Breakdown of left mandibular condyle. Osteoarthritis visible on numerous elements. Healed periostitis on tibia shaft.
2	stone-box	extended	earth	none	M	40 yrs +/- 5 yrs	Fragmentary skeletal remains. Teeth heavily worn. Osteoarthritis visible on numerous elements.
3a*	stone-box	extended	stone	none	?	18 mo +/- 3 mo	Capstones present. Lesion on left frontal, (healed periostitis around hole, but still active below hole). Lesion resorption in proximal right ulna.
3b*	stone-box	extended	earth	none	?	newborn - 6 mo	Skeletal remains disturbed by heavy machinery. Severe cribra orbitalia.
4	stone-box	disturbed	earth	none	?	5 yrs	Disturbed skeletal remains.
5	stone-box	disturbed	earth	none	F	40 yrs +/- 5 yrs	Disturbed skeletal remains. Osteoarthritis visible on elements.
6	stone-box	extended	pottery	yes	?	5 - 6 yrs	Capstones present. Fragmentary skeletal remains. Frog effigy vessel.
7	stone-box	extended	earth	none	?	6 mo +/- 2 mo	Capstones present. Periostitis on right tibia shaft.
8	stone-box	extended	earth	none	?	4 yrs +/- 9 mo	Capstones present. Fragmentary skeletal remains.
9	stone-box	disturbed	earth	none	?	40 yrs +/- 5 yrs	Disturbed stone-box. Osteoarthritis visible on several elements.
10							This designation not a burial.
11	stone-box	disturbed	stone	none	?	?	Disturbed stone-box. No skeletal remains.
12	stone-box	extended	earth	none	M?	6 yrs +/- 9 mo	Capstones present. Periostitis interior of left temporal.
13	stone-box	extended	stone	none	M?	15 yrs +/- 6 mo	Capstones preset. Cribra orbitalia present. Hypoplasia on incisors. Lesions on lumbar vertebrae. Periostitis on tibiae.
14	stone-box	extended	earth	yes	?	4 yrs +/- 6 mo	Capstones present. Human (hunchback) figurine rattle.
15	stone-box	extended	pottery	none	?	1 yr +/- 3 mo	Fragmentary skeletal remains
16							This designation not a burial.
17							This burial was not removed.
18							This burial was not removed.
19							This burial was not removed.
20							This burial was not removed.
21							This burial was not removed.
22							This burial was not removed.
23							This burial was not removed.
24							This burial was not removed.
25							This burial was not removed.
26							This burial was not removed.
27							This burial was not removed.
28							This burial was not removed.
29							This burial was not removed.
30							This burial was not removed.

Table 4. Summary of Human Burials Removed During the 1997 Investigation. (continued)

DuVall Bur No.	Burial Type	Body Position	Grave Floor	Grave Goods	Sex	Age	Comments
31	stone-box	extended	stone	none	?	1 yr +/- 3 mo	Resorption inner left parietal and occipital.
32							This burial was not removed.
33							This burial was not removed.
34							This burial was not removed.
35	stone-box	disturbed	earth?	none	?	?	Severe historic disturbance. No remains.
36	stone-box	extended	pottery	none	?	newborn – 3 mo	Small amount of fragmented skeletal remains present.
37A	stone-box	extended	earth	yes	?	3 yrs +/- 6 mo	Lab analysis identified two individuals. Fish effigy vessel.
37B	stone-box	extended	earth	yes	?	3 yrs +/- 6 mo	Lab analysis identified two individuals. Fish effigy vessel.
38	stone-box	extended	stone	none	?	18 mo +/- 3 mo	Poor bone preservation.
39	pit?	extended	earth	none	F?	40 yrs +/- 5 yrs	Disturbed grave. Severe calculus build-up. Teeth worn.
40							This burial was not removed.
41							This designation not a burial.
42A	stone-box	extended	stone	none	?	newborn	Capstones present. Two infants. One head at north end, other head located at opposite (south) end.
42B	stone-box	extended	stone	none	?	6 mo +/- 2 mo	Capstones present. Two infants. One head at north end, other head located at opposite (south) end.
43A	stone-box	extended	stone	none	?	9 mo +/- 2 mo	Lab analysis identified two individuals.
43B	stone-box	extended	stone	none	?	6 mo +/- 2 mo	Lab analysis identified two individuals.
44	stone-box	extended	earth	none	?	4 yrs +/- 9 mo	Capstones present. Cribra orbitalia in left orbit.
45	stone-box	extended?	earth	yes	?	1 yr +/- 3 mo	Capstones present, two layers. Human (hunchback) effigy hooded bottle.
46	stone-box	disturbed	stone	yes	?	9 mo +/- 2 mo	Disturbed grave. Mississippi Plain vessel.
47	pit	semi-flex	earth	yes	M	30 yrs +/- 5 yrs	Fragmentary remains. Vertebral osteophytes. Osteomyletic presence on tibiae. Greenstone celt and Madison projectile point.
48	stone-box	extended	earth	none	M	45+ yrs	Fragmentary remains. Antemortem tooth loss. Severe osteoarthritis on lumbar vertebrae.
49	stone-box	disturbed	earth	yes	M	30 yrs +/- 5 yrs	Disturbed grave. Hypoplasia on canines. Slight osteoarthritis on phalanges. One ceramic ear plug.
50	stone-box	disturbed	earth	none	M	40 yrs +/- 5 yrs	Fragmentary skeletal remains. Osteoarthritis on lumbar vertebrae. Osteophytosis on ribs and tibiae.
51							Looted grave. No skeletal remains.
52	stone-box	disturbed	earth	none	?	6 mo +/- 2 mo	Disturbed grave. Poor bone preservation.
53A	stone-box	extended?	earth	none	?	fetus (prenatal)	Lab analysis identified two individuals. Capstones present.
53B	stone-box	extended	earth	none	?	3 yrs +/- 3 mo	Lab analysis identified two individuals. Capstones present.
54	stone-box	extended	pottery	none	?	newborn to 6 mo	Capstone present.
55	stone-box	extended	earth	none	?	newborn	Field measurements of long bones taken .
56	stone-box	extended	earth	none	?	6 mo +/- 2 mo	Capstones present.
57A	stone-box	disturbed	stone	none	M	35+ yrs	Lab analysis identified two individuals. Disturbed grave.

Table 4. Summary of Human Burials Removed During the 1997 Investigation. (continued)

DuVall Bur No.	Burial Type	Body Position	Grave Floor	Grave Goods	Sex	Age	Comments
57B	stone-box	disturbed	stone	none	F	35+ yrs	Lab analysis identified two individuals. Disturbed grave.
58	stone-box	extended?	stone	none	?	newborn to 6 mo	Disturbed grave.
59	stone-box	extended	stone	none	?	1 yr +/- 3 mo	Fragmentary skeletal remains.
60	stone-box	extended	stone	none	?	1 yr +/- 2 mo	Capstones present, four layers. Slight hypoplasia left central incisor.
61A	stone-box	redeposit	earth	none	?	4 yrs +/- 9 mo	Capstones present, two layers. Two individuals in grave. Burial 61A redeposited when Burial 61B placed in stone-box. Severe resorption left and right parietal bones.
61B	stone-box	extended	earth	none	?	18 mo +/- 2 mo	Capstones present, two layers. Two individuals in grave. Burial 61A redeposited when Burial 61B placed in stone-box. Severe resorption of left and right parietal bone. Periostitis in occipital bone.
62	stone-box	disturbed	earth	none	?	fetal/newborn	Disturbed grave.
63							This designation not a burial.
64A	stone-box	extended	earth	none	F?	40 - 45 yrs	Capstones present. Two adult females in grave. Both extended position, one on top of the other with heads to west. Right and left temporal bones inflamed. Severe dental attrition. Osteoarthritis on many elements. Osteophytes on left ulna and left patella.
64B	stone-box	extended	earth	none	F	45 +/- 5 yrs	Capstones present. Two adult females in grave. Both extended position, one on top of the other with heads to west. Teeth worn, with heavy calculus buildup. Caries present. Osteophytosis on many elements. Pitted preauricular sulcus
65	stone-box	extended	earth	none	M?	45 yrs +/- 5 yrs	Teeth large and heavily worn. Severe osteoarthritis on many elements. Pitted preauricular sulcus.
66A	stone-box	disturbed	earth	none	?	25 - 30 yrs	Burial 66 yielded partial skeletal remains of (at least) 5 individuals. Mixing of remains due to historic looting and dumping activity.
66B	stone-box	disturbed	earth	none	M	45 +/- 5 yrs	Burial 66 yielded partial skeletal remains of (at least) 5 individuals. Mixing of remains due to historic looting and dumping activity.
66C	stone-box	disturbed	earth	none	?	7 yrs +/- 9 mo	Burial 66 yielded partial skeletal remains of (at least) 5 individuals. Mixing of remains due to historic looting and dumping activity.
66D	stone-box	disturbed	earth	none	?	4 yrs +/- 9 mo	Burial 66 yielded partial skeletal remains of (at least) 5 individuals. Mixing of remains due to historic looting and dumping activity.
66E	stone-box	disturbed	earth	none	?	adult	Burial 66 yielded partial skeletal remains of (at least) 5 individuals. Mixing of remains due to historic looting and dumping activity.
67	stone-box	extended?	earth	none	?	9 mo +/- 2 mo	Partial skeletal remains.
68	stone-box	extended	stone	yes	?	6 mo +/- 2 mo	Severe porotic hyperstosis of cranial bones. Lesion on clavicle. Osteomyelitis on tibiae and fibulae. Notched rim bowl and 25 marine shell beads.

Table 4. Summary of Human Burials Removed During the 1997 Investigation. (continued)

DuVall Bur No.	Burial Type	Body Position	Grave Floor	Grave Goods	Sex	Age	Comments
69							This designation not a burial.
70							This designation not a burial
71	stone-box	disturbed	earth	none	M	45 yrs +/- 5 yrs	Disturbed grave. Hypoplasia maxillary left incisor.
72	stone-box	disturbed	earth	none	?	5 yrs +/- 9 mo	Disturbed grave.
73	vessel-cap	unknown	earth	none	?	young child?	Infant/young child remains covered with large ceramic jar sherds.
74	vessel	unknown	n/a	yes	?	newborn to 6 mo	Newborn to 6 month-old infant placed inside large Mississippi Plain jar. Periostitis around temporal bones (ears). Inflammation of long bones.
75	stone-box	extended	earth	yes	?	2 yrs +/- 6 mo	Disturbed grave. Fragmentary remains. Hypoplasia left maxillary incisor. Periostitis on femur. Beckwith Incised jar (frog effigy), with cut gastropod (Campeloma sp.) found inside jar.
76	pit	semi-flex	earth	yes	F?	40 yrs +/- 5 yrs	Fragmentary remains. Cranium missing due to intrusive posthole. Mississippi Plain vessel.
77	pit	semi-flex	earth	yes	M?	40 - 45 yrs	Hypoplasia on canines. Dental caries on molars. Mississippi Plain jar and Mississippi Plain bowl.
78	stone-box	extended	earth	none	F?	35 yrs +/- 5 yrs	Capstones present. Calculus buildup on teeth. Arthritis in vertebrae.
79	stone-box	extended	earth	yes	F	35 yrs +/- 5 yrs	Calculus buildup mandibular molars. Hypoplasia present. Arthritis on many elements. Notched rim bowl and ceramic ear plug.
80	stone-box	disturbed	earth	none	?	4 yrs +/- 9 mo	Disturbed grave. Highly inflamed right ulna.
81	stone-box	disturbed	pottery	none	?	newborn to 6 mo	Disturbed grave. Periostitis on temporal bone, eye orbits, and sphenoid.
82	stone-box	extended	earth	yes	F	40 yrs +/- 5 yrs	Fragmentary remains. Calculus buildup on teeth. Hypoplasia present. Carie on molar. Arthritis on many elements. Deer astragalus cube.
83	stone-box	extended	earth	none	?	4 yrs +/- 9 mo	Fragmentary remains.
84A	stone-box	extended	pottery	yes	?	8 yrs +/- 9 mo	Capstones present. Two individuals. Burial 84A on top of Burial 84B. Hypoplasia and dental caries present. Infection on temporal and parietal bones. Mississippi Plain jar and Mississippi Plain frog effigy jar. Ground cannel coal object found under left hand of Burial 84B.
84B	stone-box	extended	pottery	yes	F	45 yrs +/- 5 yrs	Capstones present. Two individuals. Burial 84A on top of Burial 84B. Hypoplasia and dental caries present. Infection on temporal and parietal bones. Mississippi Plain jar and Mississippi Plain frog effigy jar. Ground cannel coal object found under left hand of Burial 84B. Possible tumor parietal bone. Calculus buildup on teeth. Antemortem tooth loss. Extreme arthritis in vertebrae and ribs.
85	stone-box	extended	earth	yes	?	6 mo +/- 6 mo	Capstones present. Inflammation temporal bones. Shell spoon.
86	stone-box?	disturbed	earth	none	?	unknown	Rectangular stain, probable looted stone-box.
87	stone-box	extended	earth	none	M	45 yrs +/- 5 yrs	Disturbed grave. Heavily worn teeth. Hypoplasia present canines. Calculus on teeth. Dental caries present. Arthritis visible on phalanges.

Table 4. Summary of Human Burials Removed During the 1997 Investigation. (continued)

DuVall Bur No.	Burial Type	Body Position	Grave Floor	Grave Goods	Sex	Age	Comments
88							This designation not a burial.
89	stone-box	extended?	earth	none	M?	40 yrs +/- 5 yrs	Capstones present. Partial remains. Arthritic hands and feet.
90	stone-box	extended?	stone	none	?	6 mo +/- 2 mo	Capstones present. Partial remains. Hyperstosis temporal and sphenoid bones.
91							This burial not removed.

* Burials 3a and 3b denote two separate stone-box graves. These DuVall & Associates designations have been maintained to avoid confusion with burial notes.

partial remains of at least five individuals (three adults and two children). However, Division review of the consultant records and photographs determined this particular grave was actually two separate stone-boxes (with adjoining walls) that had been seriously disturbed by plowing and looter activity. The presence of five individuals for Burial 66 is the result of modern intrusions rather than native burial actions.

Sixteen (24.2%) of the 66 removed graves (Burials 6, 14, 37, 45, 46, 47, 49, 68, 74, 75, 76, 77, 79, 82, 84, and 85) contained some type of associated grave item (Table 5). A total of 14 ceramic vessels were recovered from 12 graves (Burials 6, 14, 37, 45, 46, 68, 74, 75, 76, 77, 79, and 84). Among the other burial goods retrieved from the 40Wm210 removal were a greenstone celt (Burial 47), a ceramic ear plug (Burial 49), 25 marine shell beads (Burial 68), a shell spoon (Burial 85), and a deer astragalus cube (Burial 82).

Eighteen individuals removed (from 16 graves) during the project had associated mortuary items (see Table 5). Of this sample, five (27.8%) were infants under one year of age, six (33.3%) were young children between two and eight years old, and seven (38.9%) were adults. Although ceramic vessels were found with all age groups, it is interesting to note that all six effigy vessels were recovered from child graves.

Table 5. Associated Mortuary Items from the 40Wm210 Burial Removal.

Burial	Age	Sex	Associated Mortuary Item
6	5 to 6 years	-	Frog effigy vessel
14	4 years +/- 6 months	-	Human effigy figurine rattle
37	3 years +/- 6 months	-	Fish effigy bowl
	3 years +/- 6 months		
45	1 year +/- 3 months	-	Human effigy hooded bottle
46	9 months +/- 2 months	-	Mississippi Plain vessel
47	30 years +/- 5 years	Male	Greenstone celt; Madison projectile point
49	30 years +/- 5 years	Male	Ceramic ear plug
68	6 months +/- 2 months	-	Bell Plain notched rim bowl; 25 marine shell beads
74	Newborn to 6 months	-	Mississippi Plain jar
75	2 years +/- 6 months	-	Frog effigy vessel
76	40 years +/- 5 years	Female(?)	Mississippi Plain vessel
77	40 to 45 years	Male(?)	Mississippi Plain jar; Mississippi Plain bowl
79	35 years +/- 5 years	Female	Bell Plain notched rim bowl
82	40 years +/- 5 years	Female	Deer astragalus cube
84	8 years +/- 9 months	-	Frog effigy vessel; Mississippi Plain jar
	45 years +/- 5 years	Female	
85	6 months +/- 6 months	-	Shell spoon

Demography

The accurate determination of an individual's age and sex within a skeletal sample is critical to all areas of analysis. Such assessments help explain patterns of morphological variation between individuals and populations, thus ultimately clarifying the individual or population lifestyle, health status, and general quality of life. Many of the removed Brentwood Library skeletal remains were in fair condition and at times complete. Unfortunately, numerous skeletal elements were fragmented as a result of construction activity prior to the burial removal. Poorly preserved skeletons tended to be

those of infants. Some interments yielded a sparse scatter of skeletal elements. Relic collectors likely dug these particular graves in the distant past (possibly as part of the Putnam or Woods explorations?). About 50% of the removed graves yielded relatively complete (albeit fragmented) crania.

Despite numerous attempts, an accurate method to assess the sex of immature skeletal remains less than 15 years of age has yet to be successfully developed. As a result, sex identification of subadult skeletal material is somewhat inaccurate and unreliable at this time (Bass 1971; Krogman and Iscan 1986; Ubelaker 1978). On the other hand, adult sex determination techniques applied today have been remarkably accurate in the assessment of sex for skeletal material from individuals of known sex. Such techniques are confidently applied to prehistoric skeletal remains to determine the sex of an individual. Determinations of sex were made for one-third (25 of 75 individuals) of the 40Wm210 sample.

Table 6 presents a demographic summary of the Brentwood Library collection, with additional demographic data provided in a life table (Table 7). The Brentwood Library data can be compared with life tables generated from five study area Mississippian period sites (Tables 8-12). These sites are Averbuch (40Dv60), Gordontown (40Dv6), Kelly's Battery (40Dv392), Moss-Wright (40Su20), and Rutherford-Kizer (40Su15). A graphic presentation of these statistics is displayed through the survivorship curve in Figure 68. Table 7 indicates that 64.4% (47 of 73 individuals) of the 40Wm210 sample is represented by children less than 10 years of age, with the greatest percentage represented by children less than five years of age (n=41). This frequency is substantially greater than contemporaneous Middle Cumberland human skeletal populations excavated at Kelly's Battery (32.5%, 51 of 157 individuals), Averbuch (36.3%, 322 of 886 individuals), Moss-Wright (40%, 36 of 90 individuals), Rutherford-Kizer (41.4%, 29 of 70 individuals), and Gordontown (51.1%, 48 of 94 individuals). The highest incidence of adults at Brentwood Library (n=11) falls within the 40-44 year age category. Adult males (n=13) slightly out number adult females (n=10) for those interments identified by sex.

Table 6. Summary of the Brentwood Library Skeletal Sample.

Age (yrs)	Male	Female	Indeterminate	Total*	(%)	Cumulative %
Fetal	-	-	2	2	2.7	2.7
Birth-1	-	-	20	20	26.7	29.4
1-3	-	-	9	9	12.0	41.4
3-5	-	-	10	10	13.3	54.7
5-10	1?	-	5	6	8.0	62.7
10-16	1?	-	-	1	1.3	64.0
25-35	2	-	1	3	4.0	68.0
30-40	-	3	-	3	4.0	72.0
35-45	4	3	1	8	10.7	82.7
40-50	5	3	-	8	10.7	93.4
35+	1	1	-	2	2.7	96.1
45+	1	-	-	1	1.3	97.4
Child*	-	-	1	1	1.3	98.7
Adult*	-	-	1	1	1.3	100.0
Total	15	10	50	75		

* = remains too fragmented to age more specifically.

Table 7. Life Table for the Brentwood Library Site, 40Wm210.

Age Interval (x)	Number of Deaths (Dx)	Percent of Deaths (dx)	Survivors Entering (lx)	Probability of Death (qx)	Total Years Lived (Lx)	Total Years After Lifetime (Tx)	Life Expectancy (ex)
0-4	41	56.16	100.00	0.56	359.60	1654.25	16.54
5-9	6	8.22	43.84	0.19	198.65	1294.65	29.53
10-14	0	0.00	35.62	0.00	178.10	1096.00	30.77
15-19	1	1.37	35.62	0.04	174.68	917.90	25.77
20-24	0	0.00	34.25	0.00	171.25	743.23	21.70
25-29	1	1.37	34.25	0.04	167.83	571.98	16.70
30-34	2	2.74	32.88	0.08	157.55	404.15	12.29
35-39	4	5.48	30.14	0.18	137.00	246.60	8.18
40-44	11	15.07	24.66	0.61	85.63	109.60	4.44
45-49	7	9.59	9.59	1.00	23.98	23.98	2.50
50-54	0	0.00	0.00	0.00	0.00	0.00	0.00
Total	73						

Table 8. Life Table for the Averbuch Site, 40Dv60.

Age Interval (x)	Number of Deaths (Dx)	Percent of Deaths (dx)	Survivors Entering (lx)	Probability of Death (qx)	Total Years Lived (Lx)	Total Years After Lifetime (Tx)	Life Expectancy (ex)
0-4	268	30.25	100.00	0.3025	424.38	1994.92	19.95
5-9	54	6.09	69.75	0.0874	333.52	1570.54	22.52
10-14	25	2.82	63.66	0.0443	311.23	1237.02	19.43
15-19	79	8.92	60.84	0.1466	281.88	925.79	15.22
20-24	152	17.16	51.92	0.3304	216.70	643.91	12.40
25-29	93	10.50	34.76	0.3019	147.57	427.20	12.29
30-34	64	7.22	24.27	0.2977	103.27	279.63	11.52
35-39	49	5.53	17.04	0.3245	71.39	176.35	10.35
40-44	30	3.39	11.51	0.2941	49.10	104.97	9.12
45-49	30	3.39	8.13	0.4167	32.17	55.87	6.88
50-54	21	2.37	4.74	0.5000	17.78	23.70	5.00
55-59	21	2.37	2.37	1.0000	5.93	5.93	2.50
60+	0	0.00	0.00	0.0000	0.00	0.00	0.00
Total	886						

Table 9. Life Table for the Gordontown Site, 40Dv6.

Age Interval (x)	Number of Deaths (Dx)	Percent of Deaths (dx)	Survivors Entering (lx)	Probability of Death (qx)	Total Years Lived (Lx)	Total Years After Lifetime (Tx)	Life Expectancy (ex)
0-4	42	44.68	100.00	0.45	388.30	1882.95	18.83
5-9	6	6.38	55.32	0.12	260.65	1494.65	27.02
10-14	4	4.26	48.94	0.09	234.05	1234.00	25.21
15-19	5	5.32	44.68	0.12	210.10	999.95	22.38
20-24	1	1.06	39.36	0.03	194.15	789.85	20.07
25-29	0	0.00	38.30	0.00	191.50	595.70	15.55
30-34	5	5.32	38.30	0.14	178.20	404.20	10.55
35-39	15	15.96	32.98	0.48	125.00	226.00	6.85
40-44	7	7.45	17.02	0.44	66.48	101.00	5.93
45-49	7	7.45	9.57	0.78	29.22	34.52	3.61
50-54	2	2.13	2.12	1.00	5.30	5.30	2.50
55+	0	0.00	0.00	0.00	0.00	0.00	0.00
Total	94						

Table 10. Life Table for the Kelly's Battery Site, 40Dv392.

Age Interval (x)	Number of Deaths (Dx)	Percent of Deaths (dx)	Survivors Entering (lx)	Probability of Death (qx)	Total Years Lived (Lx)	Total Years After Lifetime (Tx)	Life Expectancy (ex)
0-4	40	25.47	100.00	0.25	436.33	2849.95	28.50
5-9	11	7.00	74.53	0.09	355.15	2413.63	32.38
10-14	4	2.54	67.53	0.03	331.30	2058.48	30.48
15-19	5	3.18	64.99	0.04	317.00	1727.18	26.58
20-24	5	3.18	61.81	0.05	301.10	1410.18	22.81
25-29	1	0.63	58.63	0.01	291.58	1109.08	18.92
30-34	11	7.00	58.00	0.12	272.50	817.50	14.09
35-39	19	12.10	51.00	0.23	224.75	545.00	10.69
40-44	13	8.30	38.90	0.21	173.75	320.25	8.23
45-49	26	16.60	30.60	0.54	111.50	146.50	4.79
50+	22	14.00	14.00	1.00	35.00	35.00	2.50
Total	157						

Table 11. Life Table for the Moss-Wright Site, 40Su20.

Age Interval (x)	Number of Deaths (Dx)	Percent of Deaths (dx)	Survivors Entering (lx)	Probability of Death (qx)	Total Years Lived (Lx)	Total Years After Lifetime (Tx)	Life Expectancy (ex)
0-4	21	23.33	100.00	0.2333	441.67	2461.11	24.61
5-9	14	15.56	76.67	0.2029	344.44	2019.44	26.34
10-14	1	1.11	61.11	0.0182	302.78	1675.00	27.41
15-19	1	1.11	60.00	0.0185	297.22	1372.22	22.87
20-24	4	4.44	58.89	0.0755	283.33	1075.00	18.25
25-29	6	6.67	54.44	0.1224	255.56	791.67	14.54
30-34	4	4.44	47.78	0.0930	227.78	536.11	11.22
35-39	22	24.44	43.33	0.5641	155.56	308.33	7.12
40-44	7	7.78	18.89	0.4118	75.00	152.78	8.09
45-49	1	1.11	11.11	0.1000	52.78	77.78	7.00
50-54	9	10.00	10.00	1.0000	25.00	25.00	2.50
55+	0	0.00	0.00	0.0000	0.00	0.00	0.00
Total	90						

Table 12. Life Table for the Rutherford-Kizer Site, 40Su15.

Age Interval (x)	Number of Deaths (Dx)	Percent of Deaths (dx)	Survivors Entering (lx)	Probability of Death (qx)	Total Years Lived (Lx)	Total Years After Lifetime (Tx)	Life Expectancy (ex)
0-4	24	34.29	100.00	0.3429	414.29	2021.43	20.21
5-9	5	7.14	65.71	0.1087	310.71	1607.14	24.46
10-14	6	8.57	58.57	0.1463	271.43	1296.43	22.13
15-19	2	2.86	50.00	0.0571	242.86	1025.00	20.50
20-24	0	0.00	47.14	0.0000	235.71	782.14	16.59
25-29	3	4.29	47.14	0.0909	225.00	546.43	11.59
30-34	12	17.14	42.86	0.4000	171.43	321.43	7.50
35-39	11	15.71	25.71	0.6111	89.29	150.00	5.83
40-44	3	4.29	10.00	0.4286	39.29	60.71	6.07
45-49	3	4.29	5.71	0.7500	17.86	21.43	3.75
50-54	1	1.43	1.43	1.0000	3.57	3.57	2.50
55-59	0	0.00	0.00	0.0000	0.00	0.00	5.00
60+	0	0.00	0.00	0.0000	0.00	0.00	0.00
Total	70						

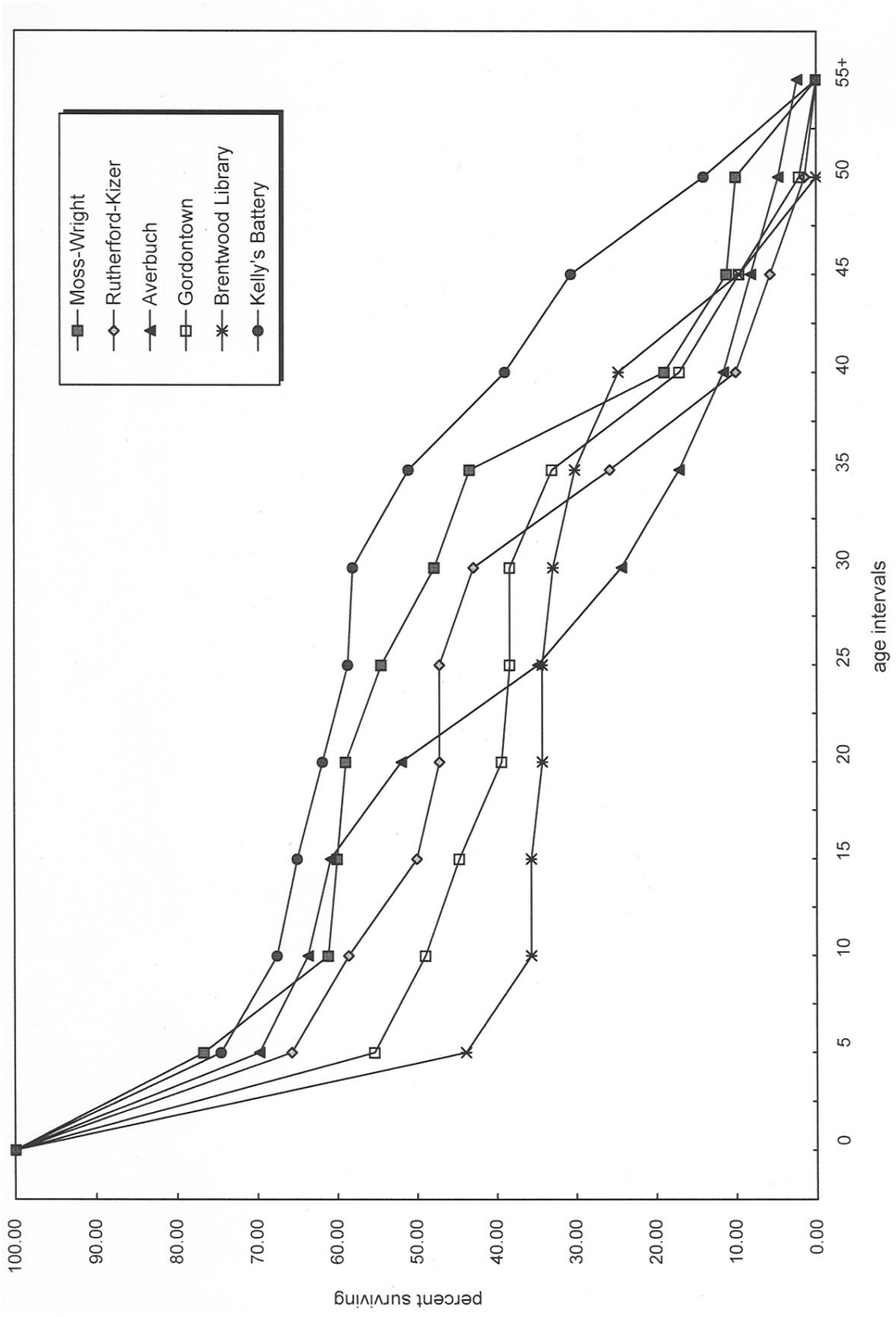

Figure 68. Mississippian survivorship.

Life expectancy at birth was 16.5 years at Brentwood Library, compared with 18.8 years at Gordontown, 20.0 years at Averbuch, 20.2 years at Rutherford-Kizer, 24.6 years at Moss-Wright, and 28.5 years at Kelly's Battery. The percentage of 40Wm210 individuals dying at birth to four years was 56%. In comparison, the percentage of individuals dying for the same age interval was 23% at Moss-Wright, 25% at Kelly's Battery, 30% at Averbuch, 34% at Rutherford-Kizer, and 45% at Gordontown. The probability of Brentwood Library residents dying after the 5 to 9 year age interval was generally reduced until the 35-39 year age interval.

Pathology

Oral and dental pathologies are present in the cases of four children, one subadult male, eight adult females, and eight adult males (see Table 4). Many of the 40Wm210 adults exhibit teeth with varying degrees of wear. Severe dental attrition was evident in Burial 64A, a probable female around 40 to 45 years of age. Antemortem tooth loss was observed in one female 45 years +/- 5 years old (Burial 84B).

Hypoplasia is evident in individuals of all ages. For example, four children (Burials 60, 1 year +/- 2 months; Burial 66C, 7 years +/- 9 months; Burial 75, 2 years +/- 6 months; and Burial 84A, 8 years +/- 9 months) display hypoplasia. A subadult male about 15 years of age (Burial 13) exhibits hypoplasia on the incisors. Hypoplasia also appears on the dentition of two adult females (Burials 79 and 82) and four adult males (Burials 49, 71, 77, and 87).

Caries, although generally limited to adults, are present on the maxillary and mandibular 2nd molars of Burial 84A (8 years +/- 9 months). Two adult females (Burials 64B and 84B) and five adult males (Burials 1, 50, 71, 77, and 87) have caries.

Eleven adults have severe calculus buildup on their teeth (Burials 2, 39, 49, 50, 64B, 65, 78, 79, 82, 84B, and 87). The youngest person is an adult male 30 years +/- 5 years old (Burial 49). Most of these individuals, however, are over 40 years of age.

Nutritional Pathology

Two young children (Burials 3b and 44) and one subadult (Burial 13) have cribra orbitalia. As shown in Figure 69, these individuals display a porotic hyperostosis condition within the orbital walls. This anemic state may be related to a lack of good nutrition, specifically a high starch diet such as corn, where available iron absorption is poor (Steinbock 1976:244-248).

Infectious Diseases

Osteomyelitis

Evidence of nonspecific bone infections caused by various microorganisms includes some form of osteomyelitis. This condition is usually expressed as periostitis or an inflammation of the periosteum. Eleven children exhibit evidence of cranial lesions.

Figure 69. Cribra orbitalia, Burial 3b.

Burial 3a (18 months +/- 3 months) displays healed periostitis around a left frontal lesion hole, but active periostitis below the hole (Figure 70). Burial 31 exhibits resorption of the inner left parietal and occipital (Figure 71). Burial 61B (18 months +/- 2 months) has severe resorption of the left and right parietal bones, as well as periostitis in the occipital bone. One 6 month old (Burial 68) exhibits severe porotic hyperstosis of the cranial bones. Periostitis is visible around the temporal bones of Burial 74 (newborn to 6 months). Periostitis is also present on the temporal bones of Burial 81 (newborn to 6 months), as well as the eye orbits and sphenoid. Burial 90 (6 months +/- 2 months) has hyperstosis of the temporal and sphenoid bones. Burial 12 is a 6 year +/- 9 month old individual with periostitis on the interior of the left temporal bone. Severe resorption of the left and right parietal bones is evident for Burial 61A (4 years +/- 9 months). Burial 84A is an eight year old (+/- 9 months) with infected temporal and parietal bones.

Four infants and two young children display periostitis on the postcranial skeleton. The proximal right ulna of Burial 3a (18 months +/- 3 months) exhibits lesion resorption (Figure 72). Burial 7 (6 months +/- 2 months) has periostitis on the right tibia shaft. Burial 68, also 6 months +/- 2 months old at the time of death, exhibits a clavicle lesion and osteomyelitis on the tibiae and fibulae. Inflamed long bones are evident for Burial 74 (newborn to 6 months). Burial 75 (2 years +/- 6 months) shows periostitis on a femur. Burial 80 (4 years +/- 9 months) has a highly inflamed right ulna. One subadult (Burial 13, male 15 years +/- 6 months) displays lesions on the lumbar vertebrae and periostitis on the tibiae (Figure 73).

Four adults (three males and one female) show some sign of periostitis. Males with this pathologic condition are Burial 1 (40 years +/- 5 years) with healed periostitis on

Figure 70. Healed periostitis around left frontal lesion hole, Burial 3a.

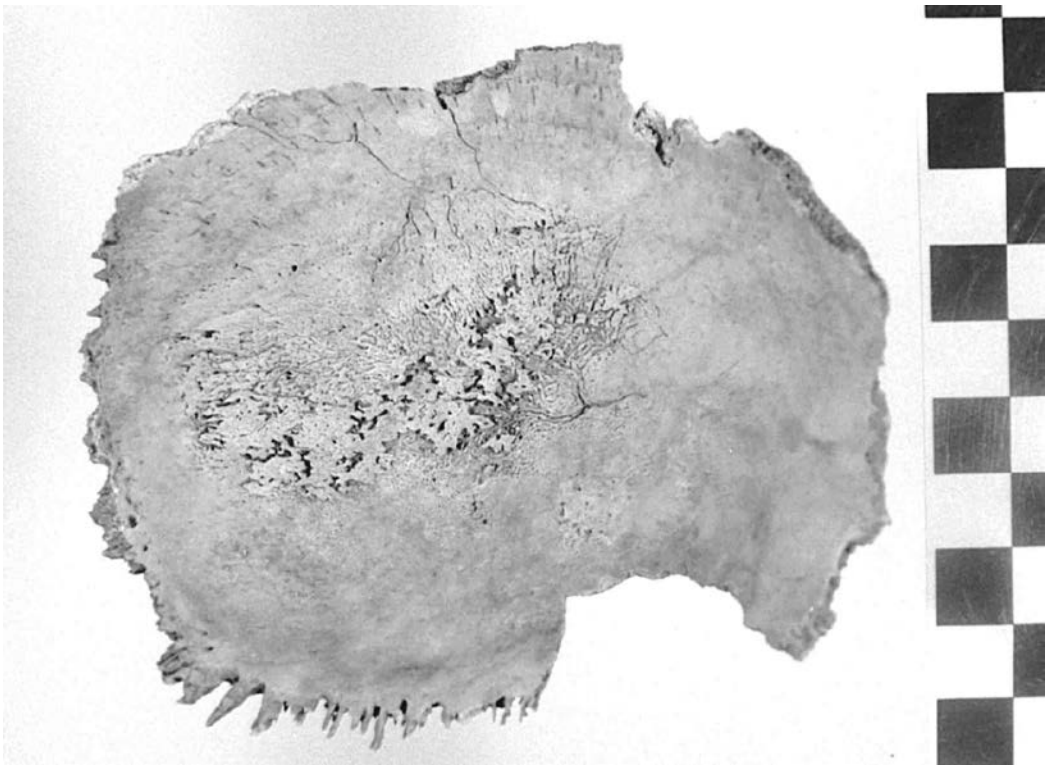

Figure 71. Inner occipital resorption, Burial 31.

Figure 72. Lesion resorption on proximal right ulna, Burial 3a.

Figure 73. Lesions on lumbar vertebrae, Burial 13.

a tibia shaft, Burial 47 (30 years +/- 5 years) with an osteomyletic presence on the tibiae, and Burial 66B with severe osteomyelitis on the right tibia and fibula. Burial 64A is a probable female, 40 to 45 years old, with periostic inflammation of both temporal bones.

Osteoarthritis and Osteophytosis

Osteoarthritis and osteophytosis appear in 13 individuals over 30 years old. Nearly 50% of this sample (n=6) are 45 years of age or older. Four female, eight male, and one unidentified adult skeletons display arthritic lipping and/or osteophyte development. Affected areas include the hands and feet, arms and legs, ribs, and vertebrae. Burials 1, 2, 5, 9, 64A, and 65 comprise individuals with substantial osteoarthritis on a variety of skeletal elements. Burial 47 (male 30 years +/- 5 years) has several vertebral osteophytes. A 45+ year old male (Burial 48) has osteophytosis on his ribs and tibiae. Burial 64A (female 40 to 45 year old) displays osteophytes on the left ulna and left patella. Burial 66B comprises an elderly male (45 years +/- 5 years) with advanced arthritic reactions on the right tibia and fibula (Figure 74). A female, 45 years +/- 5 years old at the time of her death (Burial 84B), exhibits extreme arthritic development on the ribs and vertebrae. Burials 87 and 89 represent males, 45 years +/- 5 years and 40 years +/- 5 years respectively, with arthritic hands and feet.

Trauma

Evidence of bone trauma appears on one infant (newborn to 6 month) skeleton (Burial 3b). The right clavicle exhibits a healed (or healing?) break.

Figure 74. Advanced arthritis on right tibia and fibula, Burial 66B.

Discussion

The Brentwood Library skeletal population (n=75) comprises yet another resource to supplement our understanding of the general health and standard of living for Mississippian period people living in the Nashville Basin. Recent mortuary analyses have characterized Middle Cumberland Mississippian populations as stressed, both by disease as well as social conflict. These studies have documented evidence of high infant mortality, low adult survivorship, and signs of infectious pathology, anemia, and trauma (Benthall 1987; Eisenberg 1986; Jones 2001; Moore and Breitburg 1998; Moore and Smith 2001). An over-reliance on corn, along with close contact and unclean village areas, undoubtedly contributed to the general ill health of these populations (Buikstra et al. 1988; Moore and Breitburg 1998). Evidence for violence as a result of raiding activity or limited warfare (such as scalping and decapitation) is present (Broster 1972, 1988; Eisenberg 1986; Moore and Breitburg 1998; Owsley and Berryman 1975).

The Brentwood Library skeletal remains yielded information to support some of these characterizations, especially the high infant mortality rate and low adult survivorship. A review of Table 7 indicates that a substantial percentage of the Brentwood Library population (56.2%) consists of children who died before the age of five. However, Figure 59 illustrates this number is not comparable to the other Mississippian site results. In fact, the next highest percentage (44.6%) comes from the Gordontown site (40Dv6). Interestingly enough, the Gordontown result is rather high when compared to percentages from the Moss-Wright (23.3%), Kelly's Battery (25.5%), Averbuch (30.2%), and Rutherford-Kizer (34.0%) sites.

These outcomes beg the question of why is the 40Wm210 infant mortality rate so much higher than the other sites? Part of the answer lies in the direction of sample bias for the Brentwood Library population. Most of the library construction took place within the site habitation area. Mississippian habitation areas generally yield much higher percentages of infants and very young children due to the mode of burying these particular individuals inside structures. About one-third (n=22) of the 67 structures encountered during the project contained single as well as multiple graves of infants and/or very young children. Several small clusters of young children and adults were documented across the construction zone. Cemeteries with higher percentages of adolescents and adults were discovered on the ridge (behind the new library building) during the 1882 explorations of F. W. Putnam and George Woods (see Section II). This upland locale was minimally disturbed during the library construction project.

There is no denying that the Brentwood Library population suffered poor dental and physical health. Probably the most notable individual was a 15 year-old male (Burial 13) with hypoplasia as well as cribra orbitalia, lesions on the lumbar vertebrae, and periostitis along his tibiae. The pathologies, diseases and infections, and other conditions within the 40Wm210 sample complement the findings from other study area Mississippian assemblages. The presence of cribra orbitalia in three individuals reinforces the nutritional stress of a high starch (corn) diet. Hypoplasia, another stress indicator, is evident in the dentition of individuals from all age groups. Older individuals generally suffered dental problems such as caries and severe calculus buildup. Not unexpectedly, older people also experienced the discomfort of osteoarthritis and osteophytosis. Bone infections (periostitis) occur in people of all age groups. Infants and young children primarily display this condition on their cranial bones (frontal,

temporal, parietal, and occipital). Conversely, adult males exhibit infections on the lower leg (tibia and fibula).

Physical damage is virtually non-existent in the Brentwood Library assemblage. This result is likely due to the substantial percentage of individuals under the age of ten years (64.4%). Only one trauma (an infant with a healed or healing clavicle break) is in the skeletal sample.

Analysis of the 1997 assemblage did not find any indication of violence, such as scalping or decapitation. In 1882, however, Putnam observed an arrow in the “neck” vertebra of a subadult he removed from a stone-box grave (Burial 30 on the low hill around the Jarman house).

VII. CERAMIC ARTIFACT DESCRIPTIONS

Michael C. Moore and Kevin E. Smith

An analysis was conducted on 6455 ceramic vessels, vessel sections, and sherds recovered during the 1997 Brentwood Library investigations (Table 13). This assemblage was primarily composed of vessel rim and body sherds. A number of strap handles, single and double lug handles, and assorted effigy adornments were included in this assemblage. An additional collection of 29 clay artifacts was also recovered from the excavations. This collection included 14 pottery disks, 11 earplugs, two trowel fragments, one bead, and one sphere.

Ceramic sherds less than 0.5 square inches in size were excluded from analysis. All vessels, sections, and sherds were sorted on the basis of temper type and surface treatment. Analysis of such characteristics as paste, color, decoration, and thickness was also performed.

Shell Tempered Ceramic Types

The vast majority of the Brentwood Library assemblage was composed of shell-tempered ceramics. This result favorably compares with ceramic assemblages from other Mississippian period sites within the Middle Cumberland region. In fact, 99.8% (n=6434) of the 40Wm210 specimens were tempered with crushed mussel shell.

Mississippi Plain and Bell Plain represent two traditional “supertypes” (see Smith 1992) for plain-surfaced shell-tempered ceramics from the southeastern United States (Clay 1963; Phillips et al. 1951; Phillips 1970; Steponaitis 1983). Both types have been used in Middle Cumberland ceramic analyses for decades (Benthall 1987; Jones 2001; Reed 1984; Smith 1992; Smith and Moore 2001; Trubitt 1998; Walling et al. 2000). Although the analytical value of sorting plain-surfaced, shell-tempered sherds into such broad types as Mississippi Plain and Bell Plain can certainly be debated, the authors have elected to maintain these two types for consistency with previously published reports.

Mississippi Plain

Sample size: n=5441 (21 complete or partial vessels, 315 rim sherds, 5068 body sherds, and 37 handle fragments [3 strap, 18 bifurcate lug, 2 single lug, 14 unidentified lug]).

Paste: Mississippi Plain paste is generally poor to moderately compact, with coarse ground mussel shell as the primary temper. Shell temper particles are platy, and often exceed 5.0 mm in size. Particles of grit commonly occur within the paste, but these are often considered to be natural inclusions in the clay matrix. A number of sherds with a more compact paste and somewhat finer temper particles (less than 3.0 mm in size) have been assigned to this type.

Surface finish (exterior): Although generally smoothed, the amount can vary from rather fine to uneven. The exterior surface may be rough to the touch due to the large temper particles. Large linear holes from leached temper particles are often visible.

Surface finish (interior): The interior finish can be highly variable. Usually not quite as smooth as the exterior surface, but can still range between somewhat fine to uneven.

Table 13. Ceramic Sherds/Vessels from the 1997 Investigations at 40Wm210.

Provenance	SHELL TEMPER: Miss Plain	Bell Plain	Kimms Fbr Imp	Kimms Plain	Kimms Unid	Matt Inc Mtthws	Matt Inc Manly	Bckw Incis	Mnd Plc Incis	Unid Incis	Neg Paint	Effigy	Snd Plain	Qrtz Cord	No Tmpr	TOTAL
General Collections	807*	150	7	13	4	5	-	8	-	-	3	5u,3fi,1h	1*	-	-	1007
Vessels in Parking Area	2*	-	-	-	-	-	-	1*	-	-	-	-	-	-	-	3
Structure 1																
General Collection	7	1	1	-	-	-	-	-	-	-	-	-	-	-	-	9
Feature 112 (hearth)	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Feature 122 (post)	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Feature 150 (post)	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
Structure 2																
burned clay zone	167*	75	-	-	-	-	-	-	-	-	8	1hu	-	-	-	251
fill zone above/on floor	44	16	-	2	-	-	1	4	-	-	-	-	-	-	-	69
Feature 190 (vessel)	1*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Feature 192 (vessel)	-	-	-	-	-	-	-	-	-	-	-	1fi*	-	-	-	1
Structure 3																
General Collection	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7
Feature 519 (hearth)	1	3	-	-	-	-	-	-	-	-	-	-	-	-	-	4
Feature 502 (post)	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	4
Feature 530 (post)	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Feature 555 (post)	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Structure 4																
General (northeast of hearth)	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Feature 598 (post)	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Feature 619 (post)	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Feature 620 (post)	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-	5
Structure 6																
Feature 14 (post)	1	-	-	-	-	-	-	-	-	-	-	1h	-	-	-	2
Structure 12																
Feature 1080 (vessel)	1*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Feature 1081 (hearth)	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Structure 14																
Feature 1019 (vessel)	-	1*	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Feature 1020 (vessel)	1*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Structure 25																
Feature 1699 (north hearth)	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Feature 1700 (south hearth)	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	4
Structure 26																
Feature 68 (vessel)	1*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Structure 28																
Feature 48 (vessel)	-	1*	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Structure 37																
Feature 1914 (hearth)	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2

Table 13. Ceramic Sherds/Vessels from the 1997 Investigations at 40Wm210. (continued)

Provenance	SHELL TEMPER: Miss Plain	Bell Plain	Kimms Fbr Imp	Kimms Plain	Kimms Unid	Matt Inc Mtthws	Matt Inc Manly	Bckw Incis	Mnd Plc Incis	Unid Incis	Neg Paint	Effigy	Snd Plain	Qrtz Cord	No Tmpr	TOTAL
Structure 38																
Feature 2059 (hearth)	7	2	-	-	-	-	-	-	-	-	-	-	-	-	-	9
Structure 45																
Feature 2269 (post)	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Structure 51																
Feature 2434 (vessel)	2	1*	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Feature 2445 (post)	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Feature 2446 (post)	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Structure 54																
General Collection	6	3	-	-	-	-	-	1	-	-	-	-	-	-	-	10
Feature 2466 (vessel)	-	-	-	-	-	-	-	-	-	-	-	1fr*	-	-	-	1
Structure 57																
General Collection	5	1	-	1	-	-	-	-	-	-	-	-	-	-	-	7
Feature 2482 (hearth)	36	1	-	-	-	-	1*	-	-	-	-	-	-	-	-	38
Feature 2488 (vessel)	-	1*	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Structure 64																
General Collection	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Feature 1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Feature 2	4	-	-	-	-	-	-	-	-	-	1	-	1	-	-	6
Feature 3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Feature 4	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Feature 6 (E ½)	24	6	-	-	-	-	-	-	-	1	-	1u	-	1	-	33
Feature 7	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	2
Feature 8	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Feature 9	62	28	2	-	-	-	-	4	-	-	-	1h	-	-	-	97
Feature 10	170	38	1	3	-	1	-	2	1	-	1	1fr	-	-	4	222
Feature 11	55	5	-	-	-	-	-	-	-	-	-	1fr	-	-	-	61
Feature 12	20	3	-	-	-	-	-	-	-	-	-	-	-	-	-	23
Feature 13	16	1	-	-	-	-	-	-	-	-	-	-	-	-	-	17
Feature 15	34	6	-	1	-	-	-	-	-	-	-	-	-	-	-	41
Feature 16	95	15	1	-	-	-	-	1	-	-	-	-	-	-	-	112
Feature 17	24	6	-	-	-	-	-	-	-	-	-	-	-	-	-	30
Feature 18	27	5	1	-	-	-	-	-	-	-	-	-	-	-	-	33
Feature 18A	12	4	-	-	-	-	-	-	-	-	-	-	-	-	-	16
Feature 18B	18	7	-	-	-	-	-	-	-	-	-	-	-	-	-	25
Feature 18C	11	3	-	-	-	-	-	-	-	-	-	-	-	-	-	14
Feature 18D	7	7	-	-	-	-	-	-	-	-	-	-	-	-	-	14
Feature 18E	16	1	-	-	-	-	-	-	-	-	-	-	-	-	-	17
Feature 18F	8	5	-	-	-	-	-	-	-	-	-	-	-	-	-	13

Table 13. Ceramic Sherds/Vessels from the 1997 Investigations at 40Wm210. (continued)

Provenance	SHELL TEMPER															
	Miss Plain	Bell Plain	Kimms Fbr Imp	Kimms Plain	Kimms Unid	Matt Inc Mtthws	Matt Inc Manly	Bckw Incis	Mnd Plc Incis	Unid Incis	Neg Paint	Effigy	Snd Plain	Qrtz Cord	No Tmpr	TOTAL
Feature 19	3*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Feature 20	23	2	-	-	-	-	-	-	-	-	-	-	-	-	-	25
Feature 21	50	-	-	-	-	-	-	-	-	-	-	1fi	-	-	-	51
Feature 22	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44
Feature 23	93	18	-	1	-	-	-	-	-	-	-	-	-	-	-	112
Feature 24	7	1	-	-	-	-	-	-	-	-	-	-	-	-	-	8
Feature 25	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19
Feature 26	19*	10	-	-	-	-	-	-	-	-	2	-	-	-	-	31
Feature 27	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Feature 30	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	4
Feature 31 (N ½)	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Feature 32 (N ½)	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Feature 33 (N ½)	6	-	-	-	-	-	-	-	-	-	1	-	-	-	-	7
Feature 34 (N ½)	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Feature 35	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45
Feature 36	7	6	-	1	-	-	-	-	-	-	-	-	-	-	-	14
Feature 37	25	1	-	-	-	-	-	-	-	-	-	-	-	-	-	26
Feature 38	39	15	-	1	-	-	-	1	1	-	-	-	-	-	-	57
Feature 39	48	7	2	2	-	-	-	-	-	-	-	-	1	-	-	60
Feature 40	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1
Feature 43	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Feature 44	-	1	-	-	-	1*	-	-	-	-	-	-	-	-	-	2
Feature 46	9	2	-	-	-	-	-	1	-	-	-	-	-	-	-	12
Feature 47	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Feature 49	4	5	-	-	-	1	-	-	-	-	-	-	-	-	-	10
Feature 50	104	-	-	-	-	-	-	-	-	-	-	-	-	-	-	104
Feature 51 (S ½)	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38
Feature 53	87	12	-	3	-	-	-	-	-	-	-	-	-	-	-	102
Feature 54	18	4	-	2	-	-	-	-	-	-	-	-	-	-	-	24
Feature 55	27	9	-	-	-	-	-	-	-	-	1	-	-	-	-	37
Feature 56 (S ½)	19	2	-	-	-	-	-	1	-	-	-	1fr?	-	-	-	23
Feature 57	90	10*	-	2	-	-	-	-	-	-	-	-	-	-	-	102
Feature 58	23	7	-	-	-	-	-	-	-	-	-	1fi	-	-	-	31
Feature 59	36	9	-	-	-	-	-	-	-	-	2	1d?	-	-	-	48
Feature 60	69	11	2	-	-	-	-	-	-	-	-	1h,1u	-	-	-	84
Feature 61	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	3
Feature 62	6	-	1	-	-	-	-	-	-	-	-	-	-	-	-	7
Feature 63	21	9	-	-	-	-	-	-	-	-	-	-	-	-	-	30
Feature 64 (E ½)	39	13	-	2	-	-	-	3	-	-	1	-	-	-	-	58
Feature 66	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2

Table 13. Ceramic Sherds/Vessels from the 1997 Investigations at 40Wm210. (continued)

Provenance	SHELL TEMPER															
	Miss Plain	Bell Plain	Kimms Fbr Imp	Kimms Plain	Kimms Unid	Matt Inc Mtthws	Matt Inc Manly	Bckw Incis	Mnd Plc Incis	Unid Incis	Neg Paint	Effigy	Snd Plain	Qrtz Cord	No Tmpr	TOTAL
Feature 67	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
Feature 69	-	3	-	-	-	-	-	1	-	-	-	-	-	-	-	4
Feature 70	6	3	4	-	-	-	-	-	-	-	-	-	-	-	-	13
Feature 71	892	-	-	6	-	-	-	-	-	3	-	-	-	-	-	901
Feature 72	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Feature 73	10	2	-	-	-	-	-	-	-	-	-	-	-	-	-	12
Feature 74	9	3	2	1	-	-	-	-	-	-	-	-	-	-	-	15
Feature 75	128	46	4	12	-	3	-	3	-	-	2	2fr,2u	-	-	-	202
Feature 76	37	12	-	4	-	-	-	-	-	-	1	-	-	-	-	54
Feature 77	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
Feature 78	49	6	1	-	-	-	-	-	-	-	2	-	-	-	5	63
Feature 79 (E ½)	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
Feature 80 (SE ½)	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Feature 81 (SW ½)	20	5	-	-	-	-	-	-	-	-	-	1h	-	-	-	26
Feature 82	26	7	-	1	-	1	-	-	-	-	-	-	-	-	1	36
Feature 83	50	21	-	-	-	-	-	1	-	-	-	1fi	-	-	-	73
Feature 84	16	6	-	-	-	-	-	-	-	-	-	1fi	-	-	-	23
Feature 85 (S ½)	13	1	-	-	-	-	-	1	-	-	-	-	-	-	1	16
Feature 86 (W ½)	4	2	-	1	-	-	-	-	-	-	-	-	-	-	-	7
Feature 87 (W ½)	12	1	-	-	-	-	-	-	-	-	-	-	-	-	1	14
Feature 88 (N ½)	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Feature 89 (S ½)	28	1	-	-	-	-	-	-	-	-	-	-	-	-	-	29
Feature 90 (S ½)	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Feature 91 (N ½)	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
Feature 92	12	1	-	-	-	-	-	-	-	-	-	-	-	-	-	13
Feature 93 (W ½)	4	3	-	-	-	-	-	1	-	-	-	-	-	-	-	8
Feature 94 (N ½)	7	5	-	-	-	-	-	-	-	-	-	-	-	-	-	12
Feature 95 (E ½)	5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	6
Feature 96 (N ½)	14	-	-	-	-	-	-	-	-	-	1	-	-	-	-	15
Feature 97 (N ½)	6	2	-	-	-	-	-	-	-	-	1	-	-	-	-	9
Feature 98 (N ½)	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
Feature 99 (N ½)	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Feature 100 (S ½)	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Feature 102 (S ½)	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Feature 105 (N ½)	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Feature 107	19	5	-	-	-	-	-	-	-	-	-	-	-	-	-	24
Feature 108	11	2	-	-	-	2	-	-	-	-	-	-	-	-	-	15
Feature 109	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
Feature 2200	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	3
Unknown Feature, Parking Area	37	4	2	1	-	-	-	-	-	-	-	-	-	-	-	44

Table 13. Ceramic Sherds/Vessels from the 1997 Investigations at 40Wm210. (continued)

Provenance	SHELL TEMPER															
	Miss Plain	Bell Plain	Kimms Fbr Imp	Kimms Plain	Kimms Unid	Matt Inc Mtthws	Matt Inc Manly	Bckw Incis	Mnd Plc Incis	Unid Incis	Neg Paint	Effigy	Snd Plain	Qrtz Cord	No Tmpr	TOTAL
Burial 1 (floor), fill	177	3	-	-	-	-	-	-	-	-	-	-	-	-	-	180
Burial 2, fill	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Burial 3, fill	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28
Burial 4, fill	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Burial 5, fill	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Burial 6, funerary object	-	-	-	-	-	-	-	-	-	-	-	1fr*	-	-	-	1
Burial 6 (floor), fill	245	-	-	-	-	-	-	-	-	-	-	-	-	-	-	245
Burial 9, fill	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Burial 12, fill	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7
Burial 13, fill	5	2	-	-	-	-	-	1	-	-	-	-	-	-	-	8
Burial 14, funerary object	-	-	-	-	-	-	-	-	-	-	-	1h*	-	-	-	1
Burial 14, fill	4	-	1	-	-	-	-	-	-	-	-	-	-	-	-	5
Burial 15 (floor), fill	101	1*	-	-	-	-	-	-	-	-	-	1fr?	-	-	-	103
Burial 36 (floor?), fill	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25
Burial 37, funerary object	-	-	-	-	-	-	-	-	-	-	-	1fi*	-	-	-	1
Burial 37, fill	5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	6
Burial 38, fill	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
Burial 42, fill	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	4
Burial 43, fill	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Burial 44, fill	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	4
Burial 45, funerary object	-	-	-	-	-	-	-	-	-	-	-	1h*	-	-	-	1
Burial 46, funerary object	1*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Burial 46, fill	13	4	-	-	-	-	-	-	-	1	-	-	-	-	-	18
Burial 50, fill	14	1	-	-	-	-	-	1	-	-	-	-	-	-	-	16
Burial 53, fill	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9
Burial 54 (floor), fill	375	-	-	-	-	7	-	-	-	-	-	-	-	-	-	382
Burial 56, fill	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12
Burial 61A&B, fill	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Burial 64A&B, fill	5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	6
Burial 65, fill	21	4	1	-	-	-	-	-	-	-	-	-	-	-	-	26
Burial 66, fill	14	8	-	-	-	-	-	-	-	-	-	-	-	-	-	22
Burial 68, funerary object	-	1*	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Burial 71, fill	9	4	-	-	-	-	-	-	-	-	-	-	-	-	-	13
Burial 73, fill	1*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Burial 74, funerary object	1*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Burial 75, funerary object	-	-	-	-	-	-	-	1*	-	-	-	-	-	-	-	1
Burial 75, fill	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Burial 76 funerary object	1*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Burial 76, fill	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Burial 76, posthole A	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3

Table 13. Ceramic Sherds/Vessels from the 1997 Investigations at 40Wm210. (continued)

Provenance	SHELL TEMPER															
	Miss Plain	Bell Plain	Kimms Fbr Imp	Kimms Plain	Kimms Unid	Matt Inc Mtthws	Matt Inc Manly	Bckw Incis	Mnd Plc Incis	Unid Incis	Neg Paint	Effigy	Snd Plain	Qrtz Cord	No Tmpr	TOTAL
Burial 77, funerary object	2*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Burial 78, fill	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
Burial 79, funerary object	-	1*	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Burial 79, fill	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
Burial 81, fill	46	-	-	1	-	-	-	-	-	-	-	-	-	-	-	47
Burial 82, fill	6	-	-	-	-	-	-	1	-	-	-	1u	-	-	-	8
Burial 84, funerary object	1*	-	-	-	-	-	-	-	-	-	-	1fr*	-	-	-	2
Burial 84A&B, fill	38*	16	-	-	-	-	-	-	-	-	-	-	-	-	-	54
Burial 89, fill	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15
TOTAL	5441	759	29	63	5	21	2	43	2	5	27	37	3	1	12	6450

Miss Plain=Mississippi Plain; Kimms Fbr Imp=Kimmswick Fabric Impressed; Kimms Plain=Kimmswick Plain; Kimms Unid=Kimmswick Unidentified; Matt Inc Mtthws=Matthews Incised, variety Matthews; Matt Inc Manly=Matthews Incised, variety Manly; Bckw Incis=Beckwith Incised; Mnd Plc Incis=Mound Place Incised; Unid Incis=Unidentified Incised; Neg Paint=Negative Painted; Effigy=Effigy vessel or fragment; Sand Plain=Snd Tempered, Plain; Qrtz Cord=Quartz Tempered, Cordmarked; No Tmpr=Untempered sherd; d=duck effigy; fi=fish effigy; fr=frog effigy; h=human effigy; u=unidentified effigy fragment.

* = includes partial or complete vessel.

This surface is often rough to the touch due to the large temper particles. Linear holes from leached temper particles are often visible.

Color: Exterior, core, and interior surfaces were often variable in color from one sherd or vessel to the next. Orange-red, tan, brown, and black represent the more dominant colors for each surface.

Form: Jars, bowls, and pans. Large jars with direct rims and flattened lips comprise the most common vessel form within this assemblage.

Decoration: None, by definition.

Dimensions: Body sherds range in thickness between 4.1 mm and 13.9 mm. Rim thickness is variable and generally dependent on the vessel form. The common direct jar rims with flattened lips generally range between 4.8 mm and 9.4 mm in thickness.

Comments: As mentioned above, Mississippi Plain is the primary type for the Mississippian period in the Middle South (cf. Phillips 1970). This type dominates Mississippian ceramic assemblages recovered from sites across the Middle Cumberland study area.

Over 84% of the shell-tempered sample from 40Wm210 was designated as Mississippi Plain. Specimens were recovered from a variety of contexts, including human burials, structure floors, pit features, and the site surface.

The relatively small number of handles recorded for the Mississippi Plain sample may be a bit misleading. Three of the complete vessels exhibit handles, as did a number of the rim and body sherds. Two vessels were made with bifurcate lugs, with the third displaying both strap handles and bifurcate lug handles. Handles visible on the rim sherds include five strap, 54 bifurcate lug, one single lug, and two unidentified lug. The body sherd sample yielded 14 specimens with strap handle sections and one sherd with a bifurcate lug handle fragment.

<u>Bell Plain</u>

Sample size: n=759 (5 complete or partial vessels, 163 rim sherds, and 591 body sherds).

Paste: Bell Plain sherds display a compact paste with finely crushed mussel shell as the tempering agent. Temper particles within this type generally do not exceed 1.0 mm in size. Other particles (such as grit) are rarely visible within the paste.

Surface finish (exterior): Exterior surfaces are often well finished, and may be burnished and/or polished. These sherds are generally smooth to the touch, without the roughened texture visible on more coarse shell-tempered wares.

Surface finish (interior): Virtually the same as mentioned for the exterior surfaces, with the exception of some bottle forms. Most bottles (especially hooded) tend to have less well-finished interior surfaces, without the polish visible on other vessel forms (such as bowls).

Color: The primary exterior and interior surface color was black. Gray represents the most common core color. Other common exterior and interior colors include light gray to dark tan.

Form: Jars, bowls, bottles, plates, and effigy forms. Standard bowls are the most common form noted in the Brentwood Library sample. Many of the rim sherds display a notched appliqué strip along the exterior surface just below the lip.

Decoration: None, by definition.

Dimensions: Body sherd thickness ranges between 3.0 mm and 8.5 mm. Most Bell Plain vessels tend to be thicker near the base than around the rim (especially bottles).

Comments: Bell Plain comprises another common type with broad usage throughout the southeastern United States (Phillips 1970; Phillips *et al*. 1951:122-127).

Nearly 12% of the shell-tempered sample was defined as Bell Plain. Specimens assigned to this type were recovered from numerous contexts, including the site surface, structure floors, pit features, and human burials.

Kimmswick Fabric Impressed (see Appendix I)

Sample size: n=34 (10 rim sherds and 24 body sherds).

Paste: These sherds exhibit a moderately compact paste with a somewhat coarsely crushed mussel shell temper. The temper particles are not particularly large, ranging between 2.5 mm and 5.5 mm. One body sherd displays a somewhat poorly compact paste with temper particles up to 7.7 mm in size.

Surface finish (exterior): Apparently unfinished, as by definition the exterior surfaces displayed textile impressions.

Surface finish (interior): These surfaces are generally well finished, at times very smooth to the touch.

Color: The exterior and interior colors are dark orange, dark tan, dark brown, and light black. Dark tan to light black comprise the core colors.

Form: Shallow basin pans.

Decoration: By definition, textile impressions occur along the vessel exterior surface (underside).

Dimensions: Brentwood Library rim sherds range in thickness from 12.9 mm to 21.5 mm. Vessel body thickness varies from 6.6 mm to 15.1 mm.

Comments: Kimmswick Fabric Impressed encompasses all round or flat-bottomed pans on coarse, shell-tempered ware with fabric impressions on the exterior (Phillips 1970:95-96). Traditionally termed “salt pans,” these vessels probably served a variety of functions, including evaporation of brine at some locales, communal serving vessels, and large stationary cooking vessels. The size and precise form of these vessels is often difficult to judge, since whole or partial reconstructed vessels are rare and sherd profiles are extremely uneven and variable on single vessels. Diameters are generally greater than 30 cm.

The general presumption is that these vessels were molded in excavated pits lined with fabrics, perhaps designed to help lift and/or separate these rather large vessels after drying to a relatively firm consistency.

The 40Wm210 specimens display a more compact paste, more finely crushed temper, and thinner vessel walls than initially expected. Sherds of this type recovered from other study area sites have generally been much thicker and less well made, with coarsely crushed mussel shell for temper (Smith and Moore 2001; Trubitt 1998).

Kimmswick Plain

Sample size: n=63 (46 rim sherds and 17 body sherds).

Paste: The paste and temper size of this type is similar to that observed in the fabric impressed specimens.

Surface finish (exterior): Somewhat smoothed and (in some cases) uneven surface finish. Surfaces are a bit rough to the touch due to large temper particle size, with large holes left from leached temper.

Surface finish (interior): Generally well smoothed, virtually identical to the fabric impressed ware.

Color: Exterior surfaces range from orange to light black. Core colors tend to be orange, but dark gray also observed. Interior colors range from orange to tan to light brown.

Form: Shallow basin pans.

Decoration (exterior/underside): None, by definition.

Dimensions: These rim and body sherds display a very wide range in thickness. Rims vary from 9.2 mm to 19.8 mm thick, whereas the body sherds range between 9.3 mm and 14.7 mm.

Comments: Kimmswick Plain is a plain surface variant of Kimmswick Fabric Impressed (Clay 1963:250-255; Williams 1954:219-200). The vessel form is generally a large, shallow, basin-shaped pan with diameters generally greater than 30 cm. Sorting of Kimmswick Plain from Mississippi Plain is difficult with small body and rim sherds. Vessel counts for this particular type may be deflated as a result.

Kimmswick, Type Unidentified

Sample size: n=5 rim sherds.

Comments: These five rim sherds are clearly from pans, but their small size did not permit identification as either fabric impressed or plain. Since fabric impressions often do not extend to the rim edge of Kimmswick Fabric Impressed, these sherds have not been classified as either Kimmswick Fabric Impressed or Kimmswick Plain.

Matthews Incised

Matthews Incised vessels have a long temporal and spatial distribution (Phillips 1970:127-128). Examination of several hundred whole and partial vessels from the Middle Cumberland region suggests that Matthews Incised ware (particularly *variety Matthews*) depict an increasingly stylized representation of a lobed jar (i.e. phytoform). Early jar and hooded bottle forms exhibit lobes generally interpreted as representative of local squash/gourd forms. Slightly later vessels display lobes highlighted with incised arch decorations. Subsequently, the vessel lobes appear to be dropped entirely and the phytoform is entirely stylized as Matthews Incised *variety Matthews*. The interpretation of *variety Manly* is somewhat equivocal with available data, but appears to be slightly later in occurrence. Often, the punctated arch motif co-occurs with an incised arch motif. Only rarely does the punctated arch occur in isolation.

Matthews Incised, *variety Matthews* (Figure 75)

Sample size: n= 21 (1 rim sherd and 20 body sherds).

Paste: Most of the Matthews Incised sherds from 40Wm210 exhibit a moderately compact paste with crushed mussel shell as the tempering agent. The temper particles are somewhat coarse in most (n=18) specimens, generally ranging between 2.2 mm and 5.5 mm in size. Three sherds (including the rim sherd) display a more compact paste with finer crushed mussel shell comparable to Bell Plain. The paste of several Matthews Incised sherds contains grit particles, but these appear to be part of the natural clay matrix rather than an intentional additive.

Surface finish (exterior): Generally well smoothed, although specimens with Mississippi Plain-like paste tend to be rougher due to the increased temper size and holes created by leached temper. Those sherds with Bell Plain-like paste are well smoothed.

Surface finish (interior): Generally well smoothed, although in many cases not quite to the degree of the exterior surfaces. Several sherds exhibit somewhat rougher interior surfaces due to use leached temper particles.

Color: Exterior, core, and interior surfaces vary greatly from light orange to tan to brown to light black.

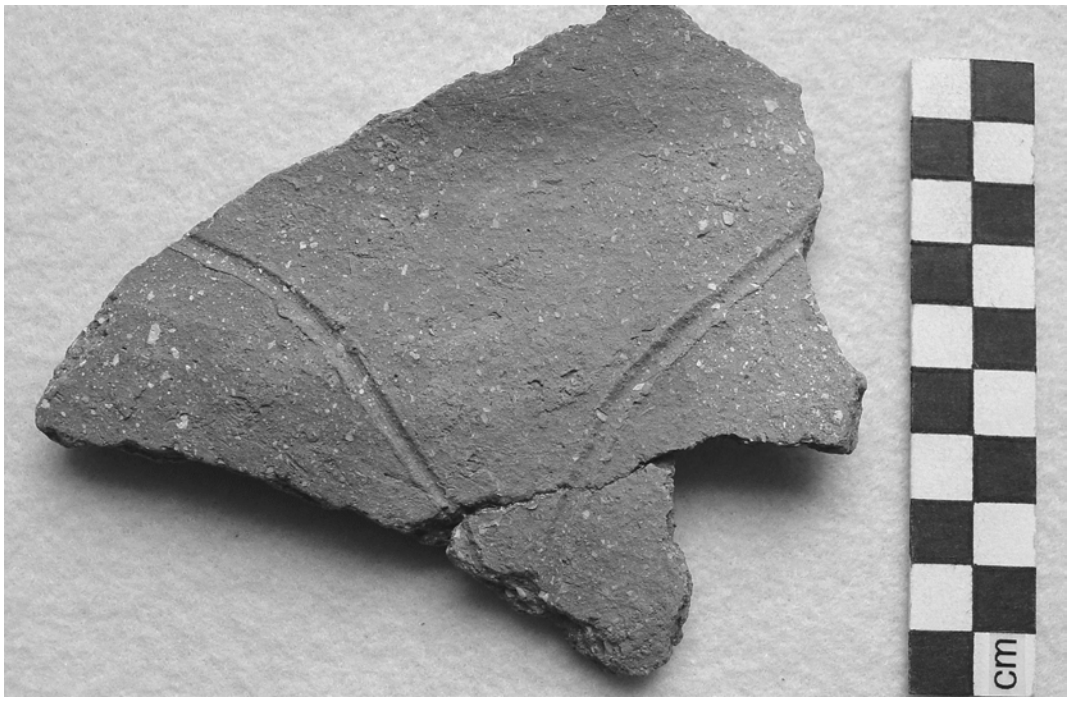

Figure 75. Matthews Incised, *variety Matthews*.

Form: Jars with direct rims and flattened lips. Several body sherds derive from lobed vessels.
Decoration: One arched incision visible on the rim and/or shoulder of standard jars.
Dimensions: The single rim measures 3.9 mm thick. Body sherds range between 3.5 mm and 8.5 mm in thickness.
Comments: The Brentwood Library sample displays a single incised line, previously designated sub-variety A (Smith 1992). No multiple incised lines are present.

Matthews Incised, *variety Manly*
Sample size: n=2 (1 vessel section and 1 body sherd).
Paste: These specimens have a moderately compact paste with crushed mussel shell temper that favorably compares to Mississippi Plain. The temper particles generally range between 2.0 mm 3.0 mm, with an occasional particle reaching nearly 4.0 mm in size.
Surface finish (exterior): Probably well smoothed when made, but currently rough due to leached temper particles.
Surface finish (interior): Generally well smoothed.
Color: This specimen exhibits a light black to black exterior surface, black core, and gray to black interior surface.
Form: The vessel section derives from a small jar with thin walls. The small body sherd likely derives from a jar as well.
Decoration: A single arched incision executed with one or more rows of punctations.
Dimensions: The vessel section measures between 2.9 mm and 3.3 mm thick. The body sherd measures 5.5 mm thick.
Comments: The vessel section was discovered in the Structure 57 hearth, whereas the body sherd was found in Structure 2.

Beckwith Incised (Figures 76-77)

Sample size: n=43 (2 complete or partial vessels, 13 rim sherds, and 28 body sherds).

Paste: These sherds display pastes that would conform to both Mississippi Plain and Bell Plain. About 70% (n=30) of the sherds are moderately compact with somewhat coarse crushed mussel shell as temper (reaching up to 4.5 mm in size). Thirteen specimens have a more compact paste and fine crushed mussel shell temper, comparable to Bell Plain.

Surface finish (exterior): Ranges from somewhat well smoothed to very well smoothed. Erosion of leached temper particles has made several sherds a bit rough.

Surface finish (interior): The interior surface is generally well smoothed. Platy holes from leached temper are visible on some specimens.

Color: The exterior and interior surfaces range from tan to brownish-orange to brown to black. Core colors are primarily tan and gray.

Form: Small to large jars with a direct rim and flattened lip. Four of these jars comprise frog effigy vessels. One frog effigy jar was recovered from Burial 75. A large frog effigy vessel section was found in Feature 85. Feature 64 yielded a (neck and shoulder) sherd from another frog effigy jar. Yet another body sherd with a probable frog effigy appendage was retrieved from Feature 38.

Decoration: Angular guilloche design along the jar neck and shoulder.

Dimensions: Rims range from 4.3 mm to 7.9 mm thick. Body sherds measure between 2.0 mm to 7.8 mm.

Comments: Although Beckwith Incised has been (at times) classified as Matthews Incised *variety Beckwith*, the original definition of Beckwith Incised as a separate type seems more appropriate. Beckwith Incised requires incision with a fine pointed implement or rectilinear or curvilinear guilloche design elements on the shoulders of standard jars. These design elements are distinct from the arched incisions on Matthews Incised vessels.

Figure 76. Beckwith Incised sherds.

Figure 77. Beckwith Incised frog effigy vessel section from Feature 85.

Mound Place Incised (Figure 78)
Sample size: n=2 rim sherds.
Paste: Both rims have a compact paste with fine crushed mussel shell as the temper. The temper particles are less than 1.0 mm in size, comparable to Bell Plain.
Surface finish (exterior): Very well smoothed.
Surface finish (interior): Well smoothed.
Color: The exterior and interior surfaces of both specimens are light black to black in color. Core colors are dark gray and orange-brown.
Form: Hemispherical or nearly cylindrical bowls, with vertical or slightly incurvate rims and flattened lips. One sherd (Feature 38) originates from a bowl with a (missing) rim-rider effigy.
Decoration: The decoration consists of two to four incised lines placed parallel to or just below the vessel rim. The specimen from Feature 38 displays four incised lines and part of an incised festoon. Most of the festoon is missing due to a rim-rider effigy that had broken off. Feature 10 yielded a smaller rim fragment with (at least) two incised lines that are broader and spaced further apart than the Feature 38 sherd.
Dimensions: These sherds originate from two completely different vessels based upon the form and location of the incised decorations. Both sherds measure 5.9 mm thick at the rim.
Comments: In general, Mound Place Incised describes a decorative treatment on Bell Plain ware limited to simple hemispherical bowls or occasionally nearly cylindrical bowls, both with vertical or slightly incurvate rims (Phillips *et al.* 1951:147-148; Phillips 1970:135-136). Two provisional varieties are described (*varieties Mound Place* and *Chickasawba*), but they are not readily distinguished without relatively large portions of vessels. *Variety Chickasawba* is distinguished from *variety Mound*

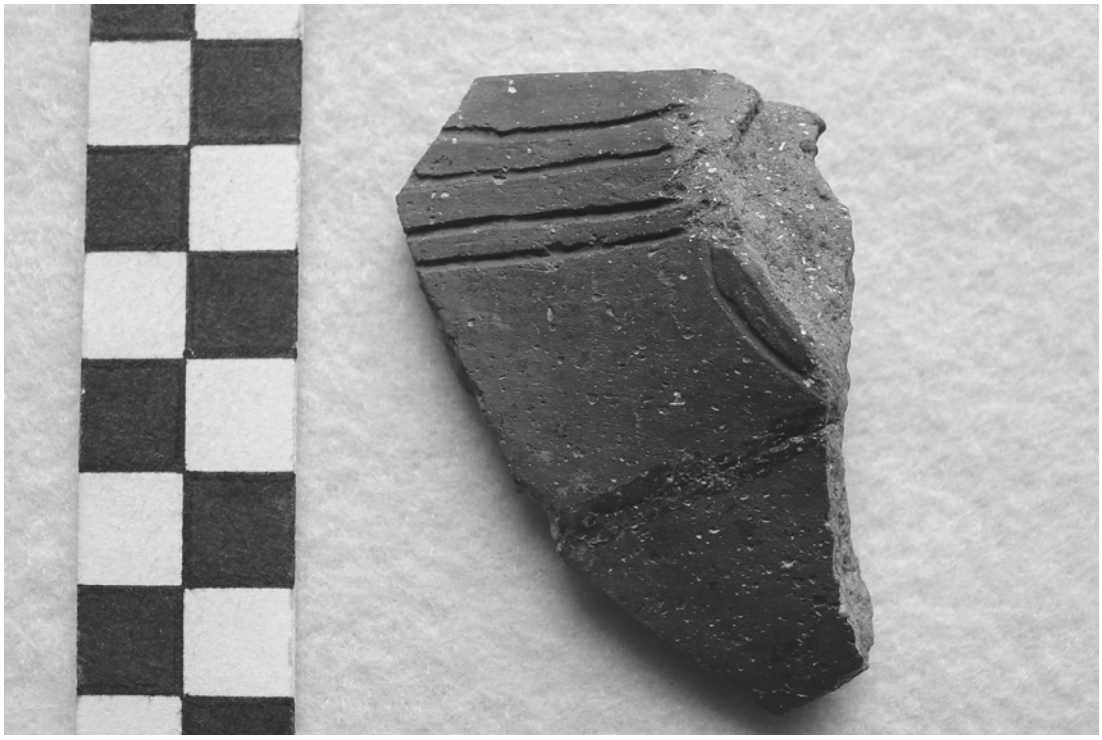

Figure 78. Mound Place Incised specimen from Feature 38.

Place only on the basis of "festoons" that dip down beneath effigy heads and tails and sometimes in loops on the sides.

Previously discovered vessels and sherds from the Middle Cumberland region generally conform to the *variety Chickasawba* (Smith and Moore 2001; Thruston 1897; Walling et al. 2000). The rim sherd from Feature 38 exhibits part of a festoon and has been designated as *variety Chickasawba*. The Feature 10 specimen cannot be confidently assigned to a particular variety.

Unidentified Incised (Figure 79)

Sample size: n=5 body sherds.

Comments: The few artifacts assigned to this category comprise small, shell-tempered body sherds with limited incised decorations that hindered confident assignment to a recognized type. The paste of these sherds is variable, but generally displays a moderate compactness with temper particles ranging up to 6.2 mm in size.

Two sherds from Feature 71 exhibit a single incision along the exterior surface, and most likely represent vessel fragments of Matthews Incised, *variety Matthews*. Two other sherds (one each from Feature 6 and Burial 46) have multiple incisions along the exterior surface, and may originate from Beckwith Incised wares.

However, one small body sherd from Feature 71 is quite different from the other unidentified incised specimens (Figure 79). This item measures 3.7 mm thick, with a compact paste and rather fine crushed mussel shell temper (< 3.0 mm). Four parallel, incised lines are present along the interior surface of the sherd, but do not continue across the entire surface. Based upon the interior incising, this sherd may

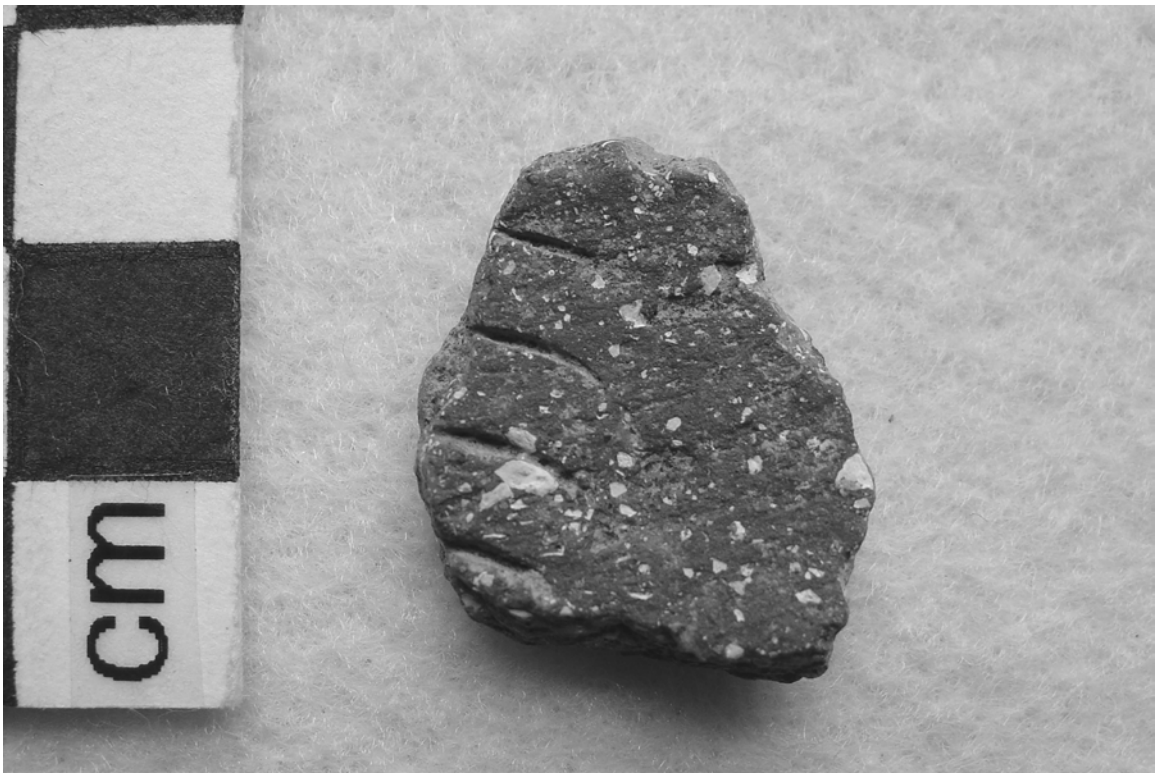

Figure 79. Possible O'Byam Incised specimen from Feature 71.

represent an example of an O'Byam Incised bowl or deep plate (Clay 1963; Hilgeman 2000; Phillips 1970; Williams 1954). Unfortunately, the sherd is too small to ascertain the vessel type. Although rare, nine specimens of O'Byam Incised ceramics have been previously documented for the Middle Cumberland region (Smith et al. 2004).

Nashville Negative Painted, *variety Nashville*

Sample size: n=27 body sherds.

Paste: These sherds display a very compact paste with extremely fine-crushed mussel shell as temper. Temper particles are less than 1.0 mm in size.

Surface finish (exterior): Most sherds highly smoothed. One sherd has a somewhat rough exterior surface, probably due to exposure.

Surface finish (interior): Generally highly smoothed, but several body sherds display a somewhat rough interior surface.

Color: Exterior colors variable, from buff to light buff-orange to light orange. Core colors range from buff to gray to light orange. Interior colors generally buff or dark gray.

Form: Bottles. Small sherd size within this sample generally hindered the identification of vessel form. However, three (probable hooded) bottle neck and shoulder sherds are present, as well as two bottle base sherds.

Decoration: By definition, negative painting on exterior surface.

Dimensions: Body sherd thickness ranges between 3.6 mm and 8.4 mm.

Comments: Sherri Hilgeman's work in the Lower Ohio Valley (1985, 1991, 2000) has renewed interest in negative-painted ceramics in the southeast. The distribution of negative painting north of Mexico has been traditionally limited to three major areas: (1) Lower Ohio Valley; (2) Cairo Lowlands/Sikeston Ridge region of southeast Missouri; and (3) Nashville Basin region of central Tennessee.

The type-variety designations for negative-painted ceramics have alternated between sorting into distinct types, and establishing regional varieties under a single type. Phillips (1970) described the type Nashville Negative Painted with several tentatively defined varieties. Hilgeman recently separated the negative-painted horizon into four major types: Angel Negative Painted, Kincaid Negative Painted, Nashville Negative Painted, and Sikeston Negative Painted. In recent years, increasing attention has been paid to refining the definition of Angel and Kincaid Negative Painted ceramics. The Cumberland River version (Nashville Negative Painted), however, has received minimal consideration.

Phillips et al. (1951:174) suggested that "negative painting on a white slip [was] evidently the definitive decorated pottery for the Cumberland."

Effigy Vessels and Fragments (Figures 80-88)

Sample size: n=37 (8 human, 9 fish, 9 frog, 1 duck, and 10 unidentified).

Paste: These artifacts generally display a compact paste with fine crushed mussel shell temper that easily conforms to Bell Plain ware. One human ear fragment recovered from Feature 60 derives from a vessel manufactured with Mississippi Plain paste. Temper particles in this particular specimen range up to 3.5 mm in size.

Forms: Bowls and bottles.

Comments: Vessels and vessel sections with structural or modeled effigy decorations, along with tail fragments and other appendages, have been placed in this category. Representations of humans, animals (fish, frog, and duck), and possibly a gourd were recovered from the 40Wm210 investigations.

The human sample includes one complete hooded bottle from Burial 45, three top knot fragments from hooded bottles (at least one blank face), and one ear fragment from a (probable) hooded bottle. Other human forms consist of one complete figurine rattle from Burial 14, one skull rim-rider (bowl) from a wall post of Structure 6, and one solid medallion head (probably from a standard bowl) collected from the site surface.

The Burial 45 hooded bottle represents a hunchbacked female in a sitting (or possibly squatting) position (Figures 80 and 81). This well-made vessel displays exceptional detail. Distinct facial features include the eyes, eyebrows, nose, mouth, and ears. The ears seem rather large, possibly indicative of ear spools? The hair has been fashioned with two prominent buns/knots on top of the head (one behind the other). Two shorter (but wider) buns/knots are also present, one on each side of the previously mentioned buns/knots. Breasts appear just above a concave chest. Appliqué arms have been bent at the elbows, with the hands (each with visible fingers) resting on top of the knees. Lower legs and feet are present. The hunched back on this vessel has a short, linear, vertical projection with incisions, most likely representative of prominent vertebrae. Buttocks are visible near the base of the vessel.

The Burial 14 figurine also depicts a hunchbacked female in a sitting (squatting?) position (Figures 82 and 83). This rather unusual specimen, which may have been negative painted, has a solid body and a hollow head that rattles. The image exhibits a prominent nose and rather large ears. However, the eyes and mouth are

Figure 80. Front view of hooded effigy bottle from Burial 45.

Figure 81. Side view of hooded effigy bottle from Burial 45.

Figure 82. Front view of figurine rattle from Burial 14.

Figure 83. Side view of figurine rattle from Burial 14.

subtle. A bun or top knot is visible on top of the head, with little additional hair detail. Appliqué arms are bent at the elbow, and curled forward with abstract hands resting on top of the knees. The feet and buttocks comprise the figurine base. The exterior surface of this figurine appears to be worn. Whether or not this wear is the result of use prior to being buried with the individual remains to be determined.

A most unusual item from the site is a skull rim-rider found in a wall post of Structure 6 (Figure 84). This image occurs just below the rim of an apparent standard bowl form. Such images have been previously found on bottle forms from middle and east Tennessee (Griffin 1952; Hudson 1985; Myer 1923; Polhemus 1987). These bottles display two skull effigies and two human head effigies in an alternating pattern along the vessel body. However, no bowl forms with these death and life representations have been formally recorded from the Middle Cumberland region. John Dowd (personal communication, 2001) states that he saw such a bowl in the collection of Dr. Oscar Noel (presumably from the Noel Cemetery site, 40Dv3, the same site that produced the bottle shown in Hudson 1985). Unfortunately, Dr. Noel died several years ago and the location of his collection is unknown.

One solid medallion head with a paste comparable to Bell Plain (although several temper particles did reach 1.8 mm in size) was recovered from the site surface (Figure 85). The head exhibits a face with closed eyes, pursed lips, and prominent ears and nose. This item measures 32.2 mm high (from chin to top of head), 40.2 mm wide (ear to ear), and 32.1 mm thick. This specimen is likely one of four attached just below the rim of a standard bowl form.

Figure 84. Skull effigy recovered from wall post of Structure 6.

Animal depictions include fish, frog, and (possibly) duck. Fish representations, manufactured exclusively on bowls, comprise two complete vessels, three fin fragments, two head fragments, and two tail fragments (Figures 86 and 87). The complete fish bowls were recovered from Structure 2 (fill above/on floor) and Burial 37. Fish fragments were collected from the general surface collection, as well as found in Features 21, 58, 83, and 84.

Frog effigy vessels at the Brentwood Library site appear limited to short-neck jars. Among the frog sample are three complete vessels, two nose fragments, two leg fragments, and one anus fragment (Figure 88). Complete frog jars were recovered from Structure 54 and Burials 6 and 84. Frog fragments were found in Features 10, 11, 15, and 75, with an additional fragment recovered from the Burial 15 fill. Another four frog effigy specimens from Burial 75 and Features 38, 64, and 85 have been included in the Beckwith Incised category (see Figures 76 and 77) rather than the effigy group.

One (probable) duck bowl tail lug was retrieved from Feature 59. Ten additional effigy sherds are too small or incomplete to assign to a particular vessel form or representation.

Other Ceramic Temper Types

Four pottery specimens, representing less than 0.1% of the 1997 ceramic assemblage, display a temper other than crushed mussel shell. The paste of one jar section and two sherds contain a fine sand temper. One small body sherd is tempered with crushed quartz. In addition to these sand and quartz tempered specimens, another twelve pottery sherds (<0.2%) recovered from the 1997 excavations appear to have no temper additive.

Sand Tempered, Plain

Sample size: n=3 (1 vessel section, 1 rim sherd and 1 body sherd).

Paste: These three items have a hard, very compact paste with fine sand as the temper. All temper particles are well under 1.0 mm in size.

Surface finish (exterior): Each specimen displays a somewhat different exterior surface. One jar section (near Hearth 5) has a burnished exterior with a generally smooth surface. Some tool marks along the neck are not completely smoothed over. A body sherd recovered from Feature 2 exhibits a polished (not burnished) exterior and well-smoothed surface. The small rim sherd from Feature 39 displays some small areas of polish along the exterior. However, most of the surface finish looks and feels rather rough (like fine sandpaper). Exposure may have affected the surface of this particular sherd.

Surface finish (interior): The burnished jar section near Hearth 5 has a somewhat smoothed interior, with tool marks and coil welds visible on the surface. The Feature 2 body sherd has a smoothed interior surface (not polished) with tool marks still visible. The interior surface of the Feature 39 rim is similar to its exterior surface.

Color: The exterior, core, and interior colors range from light black to dark black.

Form: These specimens represent at least two different vessels. The vessel section near Hearth 5 originates from a shouldered jar with a direct rim and flattened lip. The small rim from Feature 39 is incurvate with a flattened lip, and although far from definitive, likely derives from a jar.

Decoration: None, by definition.

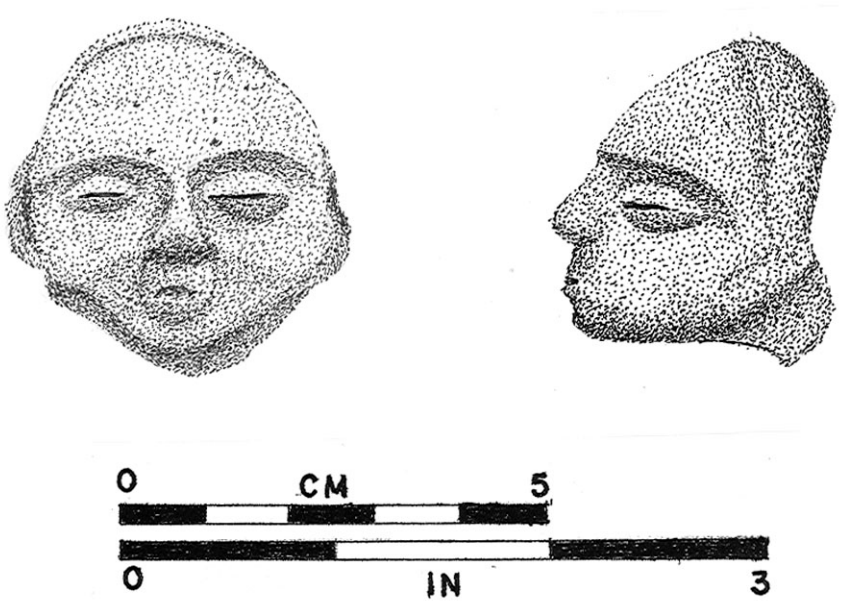

Figure 85. Medallion head from site surface.

Figure 86. Fish effigy bowl from Burial 37.

Figure 87. Effigy fragments. Two on left from fish bowls, two on right from frog vessels.

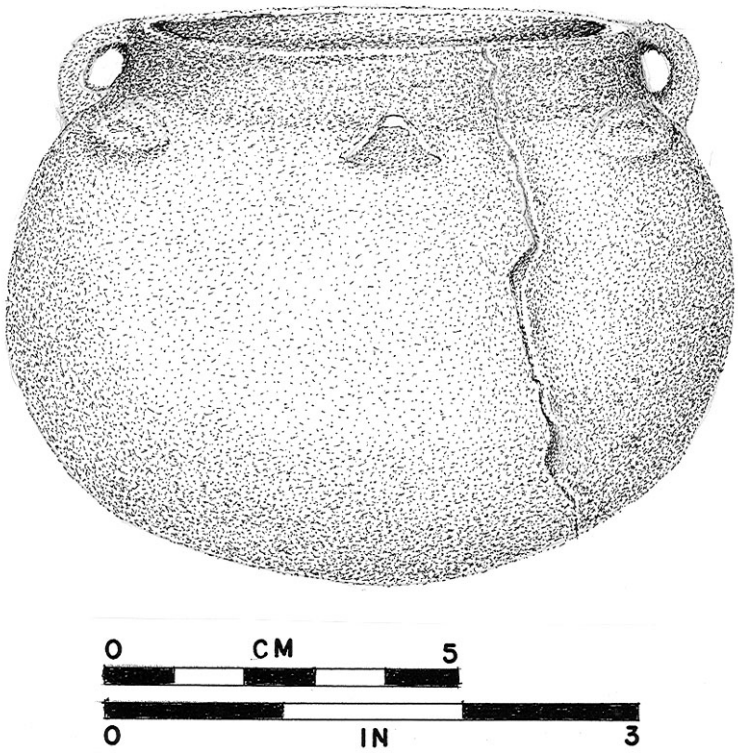

Figure 88. Frog effigy vessel from Burial 84.

Dimensions: The vessel section recovered near Hearth 5 has a rim thickness of 5.5 mm, expanding to 7.5 mm at the neck and shoulder junction, and thinning to 4.3 mm at the shoulder. The Feature 39 rim measures 6.8 mm at the rim, and up to 9.1 mm below the lip. The Feature 2 body sherd measures 9.2 mm thick.

Comments: The chronological placement of sand-tempered ceramics from Middle Cumberland Mississippian sites has yet to be confidently established. Such wares always comprise a minority type, at times represented by a single specimen (Benthall 1987; Trubitt 1998). Some researchers link sand-tempered pottery with earlier Woodland occupations (Benthall 1987; Walling et al. 2000). Others, however, have noted the presence of sand-tempered ceramics with Mississippian site components (Heimlich 1952; Lewis and Kneberg 1946; Moore and Smith 2001; Trubitt 1998).

Each 40Wm210 specimen was recovered from a Mississippian period feature. Although such a context does not guarantee a direct temporal association, the probability remains high that these sand-tempered ceramics comprise part of the Mississippian period assemblage at the Brentwood Library site. Their different paste and surface treatment support a non-local origin. Unfortunately, the source of these particular artifacts remains something of a mystery at this time.

Quartz Tempered, Cordmarked

Sample size: n=1 body sherd.

Paste: This sherd from Feature 6 has a paste of moderate compactness, with crushed quartz or quartzite as the temper. Temper particles range from rounded angular to blocky, and measure up to 4.0 mm in size.

Surface finish (exterior): Hard to tell due to exterior decoration.

Surface finish (interior): Somewhat smoothed.

Color: These sherds have a tan exterior and interior surface. Core color is gray.

Form: Unknown due to small size of sherd.

Decoration: Cordmarking along exterior surface.

Dimensions: Body sherd measures 6.1 mm thick.

Comments: This sherd may comprise a local variant of the (Early Woodland) Watts Bar Cord Marked type (Faulkner 1968; Lewis and Kneberg 1957). Quartz temper ceramics are generally perceived to be earlier than limestone temper ceramics. Be that as it may, Woodland period ceramics in the study area are poorly understood, and it is possible that quartz-tempered sherds are contemporaneous with the limestone-tempered wares.

Untempered Ceramics

Sample size: n=12 (includes 2 “pinch pot” sections).

Comments: Sherds assigned to this category contain no recognizable tempering agent. Several specimens did have a limited amount of small grit particles in the paste, but these likely comprise natural inclusions in the clay. Two “pinch pot” sections were recovered during the investigations. One vessel section was found in Feature 78. Matching sherds retrieved from Features 85 and 87 represent a second vessel section. Both of these “pinch pots” constitute small, crudely made, bowl-like receptacles with thick rims and walls. The vessel section from Features 85 and 87 has an orifice diameter of 52.5 mm. Other sherd widths range from 9.3 mm to 18.3 mm thick.

Rim Treatments

Notched Appliqué Strips (Table 14; Figure 89)

Sample size: n=94 (4 vessels, 90 rim sherds).

Comments: Specimens assigned to this category comprise standard bowls and rim sherds with notched appliqué strips just below the vessel lip. This decorative technique is representative of Thruston phase (AD 1250-1450) ceramics throughout the Middle Cumberland region. Notched rim vessels were present in Burial 68, Burial 79, and Feature 57 (Table 14). In addition, rim sherds were recovered from the general surface, pit features, structure fill, and burial fill. Over 87% (n=82) of these specimens derive from Bell Plain paste, including three of the four vessels. The size and shape of the notches is quite variable (Figure 89). Such variation has been noted within other Mississippian site assemblages (Moore and Smith 2001; Smith and Moore 2000).

Table 14. Provenance and Count of Notched Rims from the 1997 Investigations.

Provenance	Mississippi Plain	Bell Plain	Total
General Collection	3, 1*	32	36
Structure 2, burned clay zone	1	10	11
Structure 45	-	1	1
Structure 57	-	1	1
Feature 4	-	1	1
Feature 9	-	1	1
Feature 10	1	7	8
Feature 15	-	1	1
Feature 16	-	2	2
Feature 18C	-	2	2
Feature 18F	1	-	1
Feature 22	1	-	1
Feature 23	1	-	1
Feature 39	-	1	1
Feature 44	-	1	1
Feature 53	1	-	1
Feature 57	-	1*	1
Feature 58	1	1	2
Feature 60	-	1	1
Feature 64	1	2	3
Feature 70	-	1	1
Feature 74	-	1	1
Feature 75	-	1	1
Feature 81	-	1	1
Feature 82	-	1	1
Feature 83	-	4	4
Feature 84	-	1	1
Feature 94	-	1	1
Burial 15	-	1	1
Burial 50	-	1	1
Burial 68	-	1*	1
Burial 79	-	1*	1
Burial 84A	-	1	1
Burial 84B	-	1	1
Total	12	82	94

* = complete or partial vessel.

Figure 89. Selected notched rim fragments.

Handles

Strap

Sample size: n=32.

Comments: Over 80% of the strap handles recovered from 40Wm210 were found on Mississippi Plain jars (n=26). The remaining specimens were evenly distributed between Bell Plain (n=3) and Beckwith Incised (n=3) jars. Each Beckwith Incised jar was manufactured with paste comparable to Mississippi Plain.

Strap handles are generally parallel-sided, but at times may be slightly wider at the top and bottom. These handles attach to direct rims at or just below the lip, and also the vessel shoulder. Unfortunately, nearly all of the strap handles recovered during the Brentwood Library excavations are represented as small fragments. Only four specimens, originating from vessels of considerable size difference, are intact enough to obtain accurate width and thickness measurements. These straps range in width from 20.3 mm up to 61.3 mm, and vary in thickness from 2.8 mm to 5.7 mm.

Bifurcate Lug (Figure 90)

Sample size: n=81.

Comments: Virtually all bifurcate lugs were attached to relatively large, direct rim jars with Mississippi Plain paste. These lugs were modeled separately from the vessel and then attached to the rim lip. Handle lengths (measured as the horizontal distance perpendicular to the rim) range between 21.6 mm and 35.6 mm. The handle thickness (measured as the vertical distance parallel to the rim) varies from 8.1 mm to 15.7 mm.

The exception to these previous descriptive statements consists of a direct, Bell Plain jar rim (3.8 mm thick) with a very modest, stylized lug handle (5.5 mm long and 3.9 mm thick) obviously formed as part of the lip.

Single Lug (Figure 90)

Sample size: n=3.

Comments: Three single lug handles (Mississippi Plain paste) were recovered from the investigations. All specimens originate from jars with direct rims.

Unidentified Lug

Sample size: n=18.

Comments: Small fragments that could not be confidently identified as either single or bifurcate lug handles were assigned to this category.

Mississippian Vessel Forms

The 40Wm210 assemblage, obtained as a result of salvage excavations and opportunistic surface collections, can provide additional insights into the nature of pottery vessels from the Thruston phase (AD 1250-1450). Over 62% (n=348) of the shell-tempered rim sherds could be assigned to a general vessel form. Table 15 presents these rim sherds by vessel form and attribute. This method provides a simple and expedient manner to quantify a ceramic assemblage recovered under salvage conditions. However, these counts do not represent the minimum number of vessels, as this method creates somewhat higher numbers for vessels with larger orifice diameters.

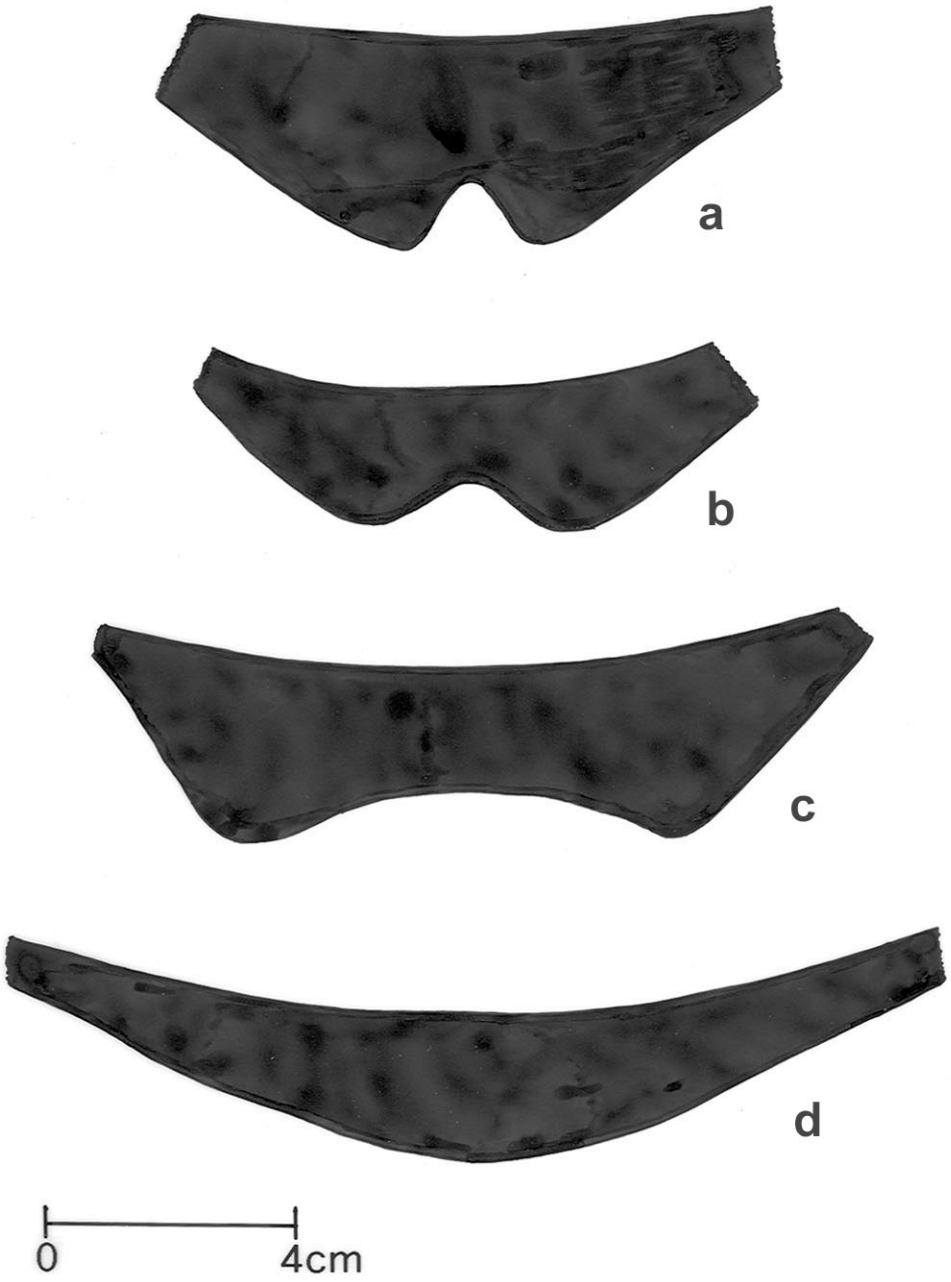

Figure 90. Bifurcate (a-c) and single (d) lug handles.

Table 15. Mississippian Vessel Forms and Attributes by Rim Sherd Counts from the 1997 Investigations.

Vessel Form	Vessel Attribute	Coarse Shell Temper	Fine Shell Temper	Total	Percent
Plain Jar	Direct rim, flattened lip	107	4	111	31.9
	Incurvate rim, flattened lip	2	1	3	0.9
	Excurvate rim	-	5	5	1.4
Incised Jar		9	7	16	4.6
Bowl	Standard	1	16	17	4.9
	Outslanting wall	-	7	7	2.0
	Notched rim	12	82	94	27.0
	Effigy	-	5	5	1.4
Incised Bowl			2	2	0.6
Bottle		-	1	1	0.3
	Hooded	-	10	10	2.9
Plate		-	8	8	2.3
	Scalloped rim	-	8	8	2.3
Pan	Plain	46	-	46	13.2
	Fabric impressed	10	-	10	2.9
	Unidentified	5	-	5	1.4
Totals		192	156	348	100.0

In addition, the relative counts of some highly distinctive vessel forms (such as plates, pans, and hooded bottles) may be inflated. These particular forms are more readily identified from small rim sherds than jars, bottles, and selected bowl forms.

Jars (Figures 91-93)

Nearly 39% (n=135) of the 348 rim sherds in Table 15 derive from jars. This particular vessel form, as with other study area Mississippian sites, exhibits some morphological and stylistic diversity (Figures 91 and 92). About 87% (n=117) of these specimens display pastes with coarse shell temper (see Figure 91). Generally, the size of the shell temper fragments directly correlates with the thickness of the vessel walls and overall vessel size.

The three rim categories defined in the jar sample are direct, incurvate, and excurvate. Direct rim refers to jar necks/rims that rise vertically from the globular or subglobular body. A gentle but recognizable break between the body and neck is sometimes evident. Incurvate rim refers to jar necks/rims that curve evenly inward from the rounded shoulder of the vessel to the lip. Excurvate rims show a sharp break towards the exterior of the vessel body.

The jar sample exhibits flattened and rounded lip attributes. The most common lip attribute is a simple flattened lip. Several sherds exhibit a rounded lip. Rolled or folded lips are not present in the 40Wm210 jar sample.

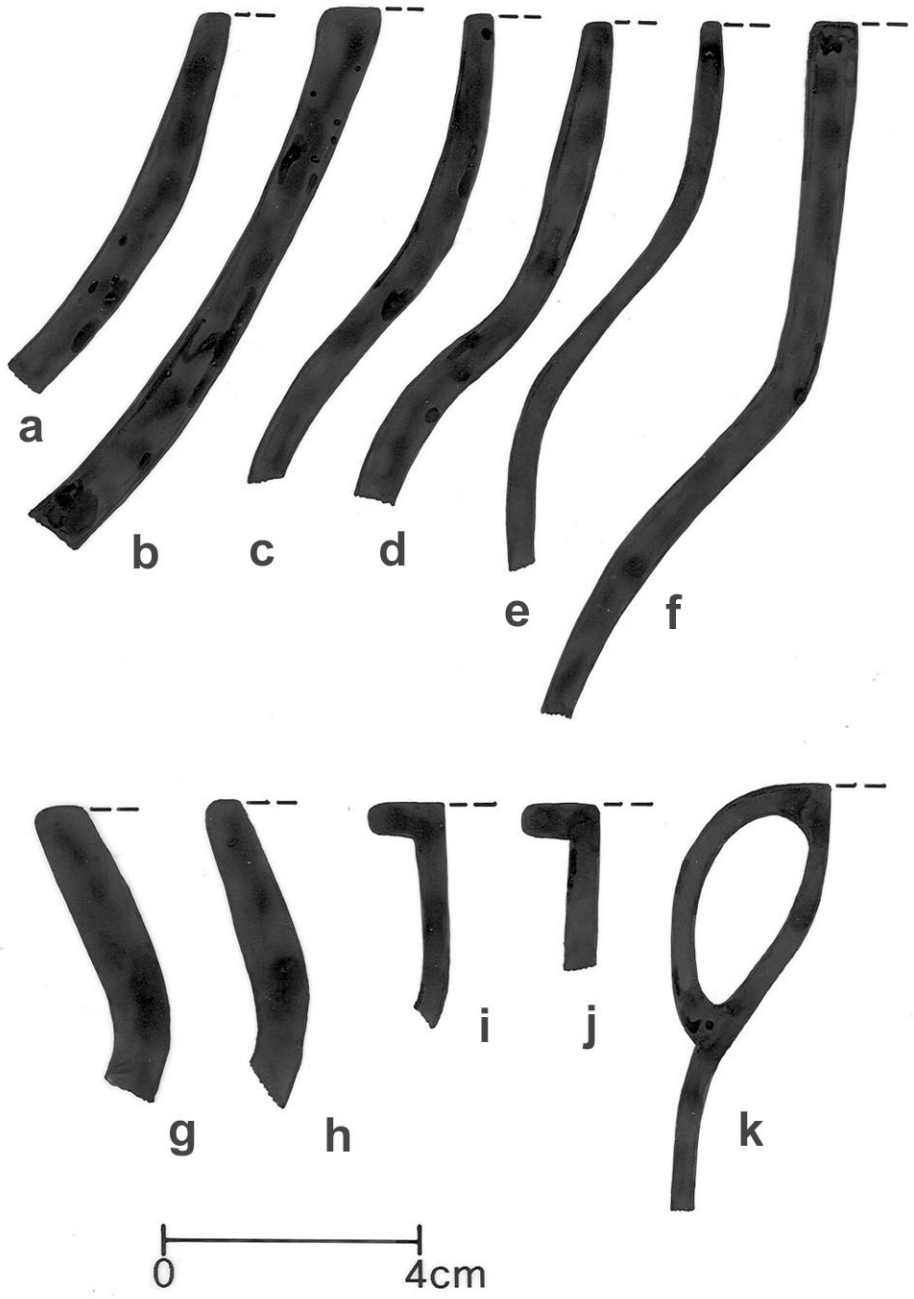

Figure 91. Coarse shell temper jar profiles: incurvate (a-b); direct (c-f, k); and excurvate (g-j).

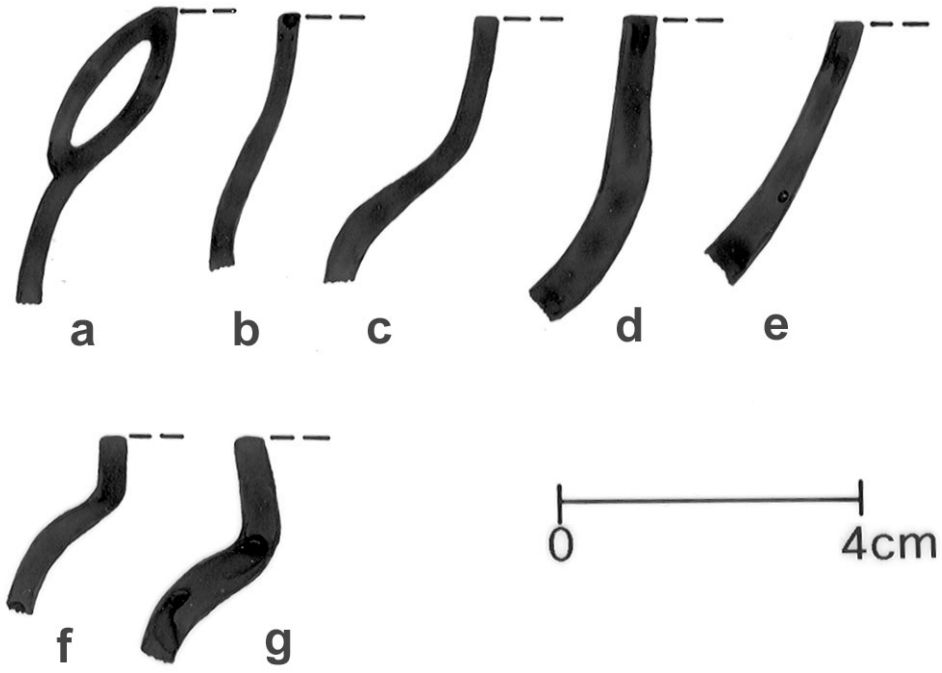

Figure 92. Fine shell temper jar profiles: direct (a-d, f); incurvate (e); and excurvate (g).

The (probable non-local) vessel section with sand temper recovered from the Hearth 5 area has a direct rim and flattened lip that is comparable to the shell-temper sample in Table 15. The vessel profile shown in Figure 93, however, is visibly distinct from the 40Wm210 shell temper sample.

Bowls (Figure 94)

The 125 bowl sherds listed in Table 15 represent 35.9% of the identified rim sample. One basic differentiation between the identified bowl forms lies in the angle of the wall of the bowl. Additional attributes include modifications to the vessel rim and lip, including notched appliqué strips at or just below the rim, and modifications required for the creation of effigy bowls.

The standard and outslanting wall forms have orifice diameters that are equal to the maximum diameter of the vessel. The standard bowl generally follows a gently rounded sub-hemispherical form with bases that range from relatively rounded to slightly flattened to sharply flattened with a strong break with the walls. The outslanting wall bowl is a distinctive form with walls that slant outward at least 20 degrees or more from the vertical.

Most (if not all) of the notched rim bowls exhibit the standard bowl form (see Figures 89 and 94). Smith and Moore (2001:171) note the addition of notched appliqué rim strips to standard bowls is a universal feature of Thruston phase assemblages. This addition is speculated to represent a stylistic variant of sun circles in Middle Cumberland (and more broadly Mississippian) iconography.

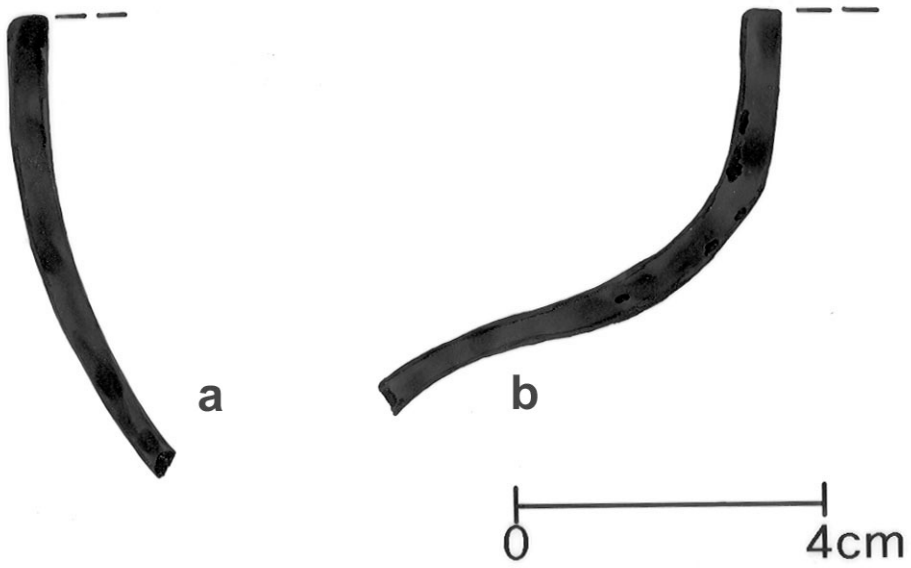

Figure 93. Other vessel profiles: Mound Place Incised bowl (a); sand-tempered jar (b).

Standard bowl modifications to create effigy forms include a lug tail handle associated with a probable duck form, and a human medallion head comprising one of four attached just below the bowl lip. No inward or outward facing rim-rider effigy heads are present in this sample, although the Mound Place Incised rim from Feature 38 displays a broken section where a rim-rider effigy used to be attached (see Figures 78 and 93). Fish effigy bowls often have somewhat restricted orifices. These forms generally are well-rounded subglobular bowls with orifice diameters less than three-quarters of the maximum vessel diameter (Smith 1992).

Bottles

Bottles represent 3.2% (n=11) of the rim sherds in Table 15. Ten of these specimens originate from hooded forms with the distinctive vessel orifice at the back of the head. Of these ten sherds, six represent unidentified orifice rim fragments.

Two distinct sub-forms of hooded bottles (blank-face form and effigy form) occur in Middle Cumberland Mississippian sites. Blank-faced hooded bottle variants often exhibit modeled and/or pierced features on the side of the head that are generally attributed as ears. Features on top of the head (described as top knots, hair buns, and/or helmets) also occur. Only one of the three top knot fragments found during the excavations can be confidently assigned to a blank face vessel.

Hooded effigy bottle forms are more easily defined and interpreted than blank-face forms. These particular forms consist of a well-defined human or owl face with the orifice at the back of the head. The body of these vessels is usually modified to match

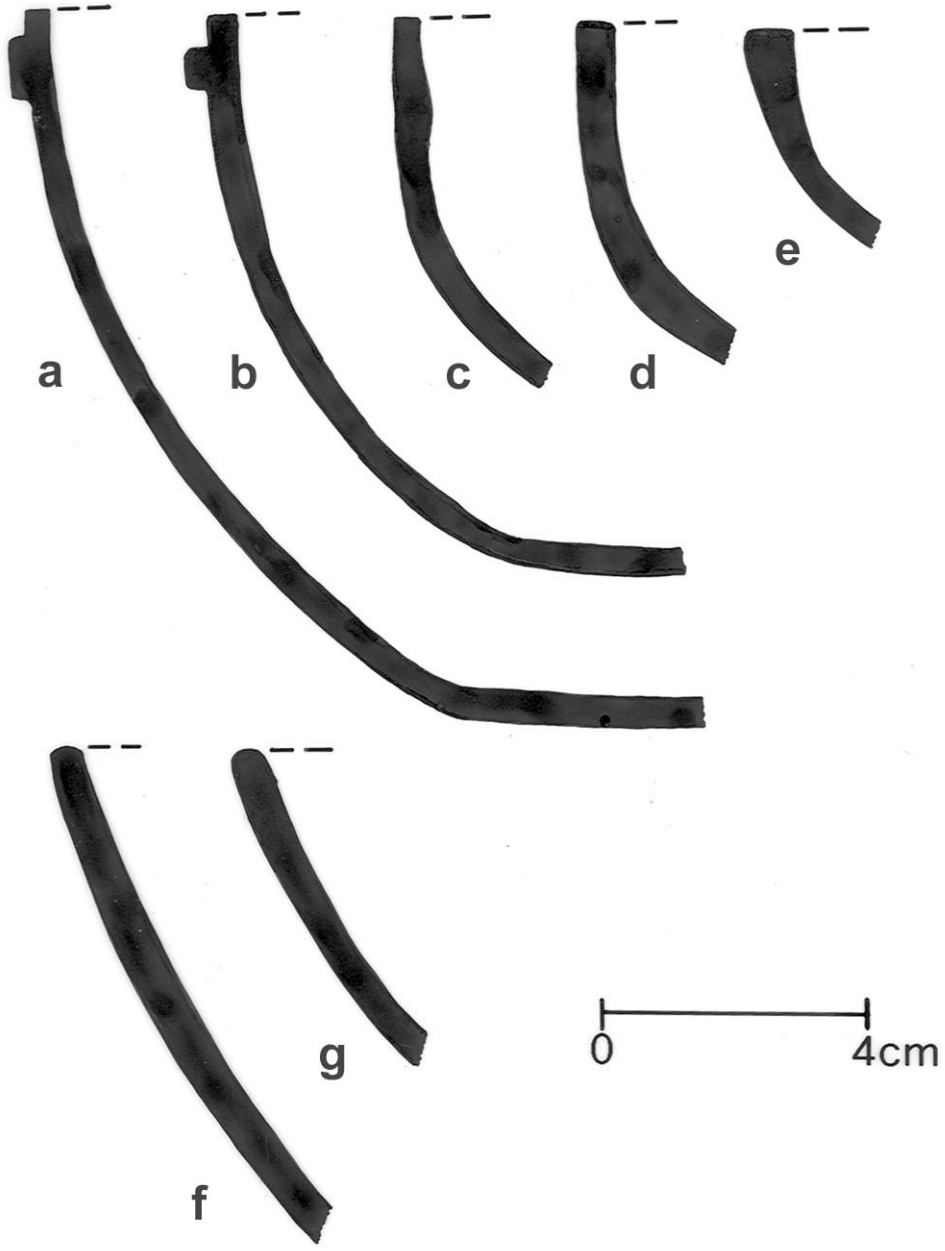

Figure 94. Bowl profiles: standard (a-e); outslanting (f-g).

the human or owl head. The only identified hooded effigy bottle from the 1997 work is the human effigy from Burial 45 (see Figure 80). Putnam also recovered a human effigy form in Grave 42 (south of the Jarman house) during his 1882 explorations (see Section XII). In addition, Putnam found an owl effigy bottle in Grave 29 south of the Jarman house (see Section XII). Owl effigy forms occur at other study area sites as well (Dowd 1972; Ferguson 1972; Moore and Smith 2001; Myer 1928).

The remaining sherd assigned to the bottle vessel form comprises a neck sherd from either a cylindrical neck or carafe neck bottle. Not enough of this particular specimen is represented to confidently place it in either category.

Plates (Figure 95)

Plate sherds comprise 4.6% (n=16) of the identified rims in Table 15. The rim profiles in Figure 95 suggest rather shallow vessels with rounded breaks between body and rim. Rim breaks are distinct in several specimens, but vary in width and angle of break from the body. Lips range between flattened to slightly flattened to rounded. The bases are probably flat similar to examples from other Middle Cumberland sites (Jones 2001; Moore and Breitburg 1998; Moore and Smith 2001). Eight of the 16 specimens derive from plates with scalloped rims. Whether or not scalloped rim vessels are the dominant form remains problematic at this time.

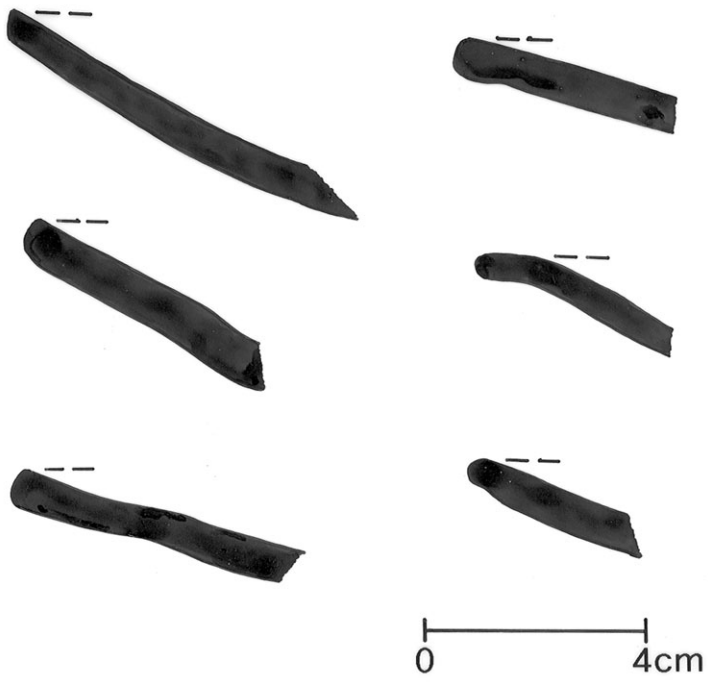

Figure 95. Plate profiles.

Pans (Figures 96 and 97)

Pans are generally large, round vessels with shallow basins and rounded or flat bottoms. The (usually) thick rims have flat or rounded lips that are externally thickened and often created by folding. Lips may also be pinched to form an external ridge.

The 61 specimens from 40Wm210 comprise 17.5% of the identified rims in Table 15. A substantial percentage of these rims (75.4%, n=46) derive from plain pans (Figure 96). Ten fabric-impressed rims represent just 16.3% of the pan sample (Figure 97).

"Pinch Pots"

Also represented in the Brentwood Library ceramic assemblage are two sherds from crudely made vessels often described as "pinch pots" (Moore and Smith 2001). These two items are not represented in Table 15. Both specimens derive from small, untempered, bowl-like receptacles with thick rims and walls.

Other Ceramic Artifacts

The 1997 excavations also yielded 29 clay artifacts not classified as a ceramic vessel, vessel section, or sherd. Among these items are 14 pottery sherd disks, 11 earplugs, two trowel fragments, one bead, and one sphere. Table 16 presents the provenance and number of each item.

Disks (Figure 98; Table 17)
Sample size: n=14.
Comments: These shell-tempered pottery sherds were modified into round disks. Twelve disks originate from sherds with a plain surface. Another two artifacts derive from fabric impressed pan sherds.

The 40Wm210 disks (measuring 32.0 mm up to 79.7 mm in diameter, with an average diameter of 54.1 mm) are generally larger than specimens recovered from other Middle Cumberland Mississippian sites. For example, disks from the Rutherford-Kizer site range from 23.1 mm to 59.3 mm in diameter, for an average of 35.7 mm (Moore and Smith 2001). Two disks from Gordontown measure 31.0 mm and 46.0 mm in diameter (Trubitt 1998). Numerous disks (plain surface as well as fabric-impressed) were recovered from the East Nashville Mounds site, but no measurements are available for comparison (Walling et al. 2000).

Interpretations of what these particular artifacts were used for range from gaming pieces to children's toys to bottle stoppers. However, the most common accepted use of these items is some type of gaming or gambling piece.

Earplugs (Figure 99; Table 18)
Sample size: n=11.
Comments: Nine earplugs have no apparent temper additive. Fine grit particles within the paste of several fractured specimens appear to represent natural inclusions. Two earplugs did exhibit crushed mussel shell temper. One item from the site surface contains a minimal amount of finely crushed shell, whereas an example from Feature 18 contains extensive amounts of more coarsely crushed shell.

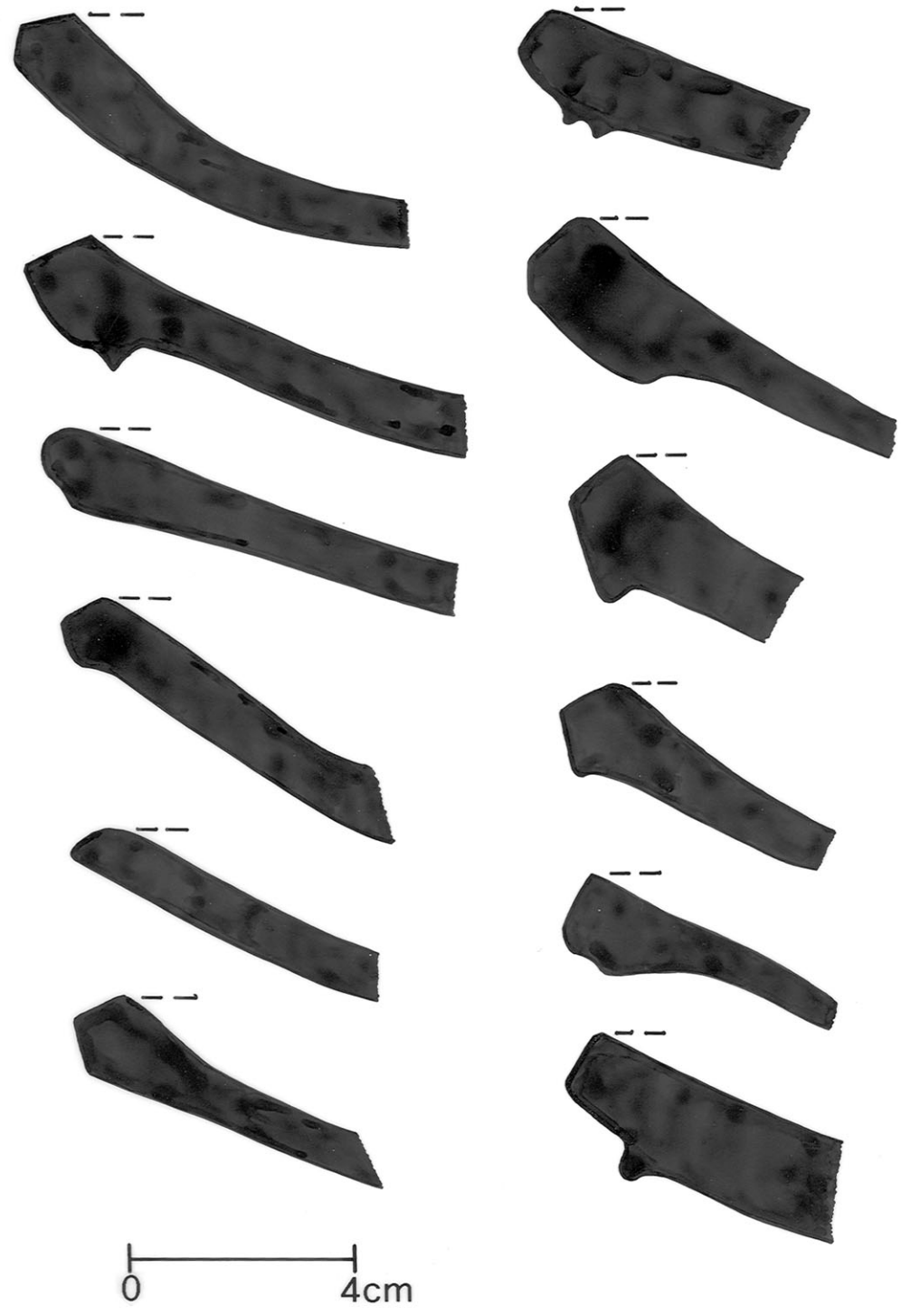

Figure 96. Plain pan rim profiles.

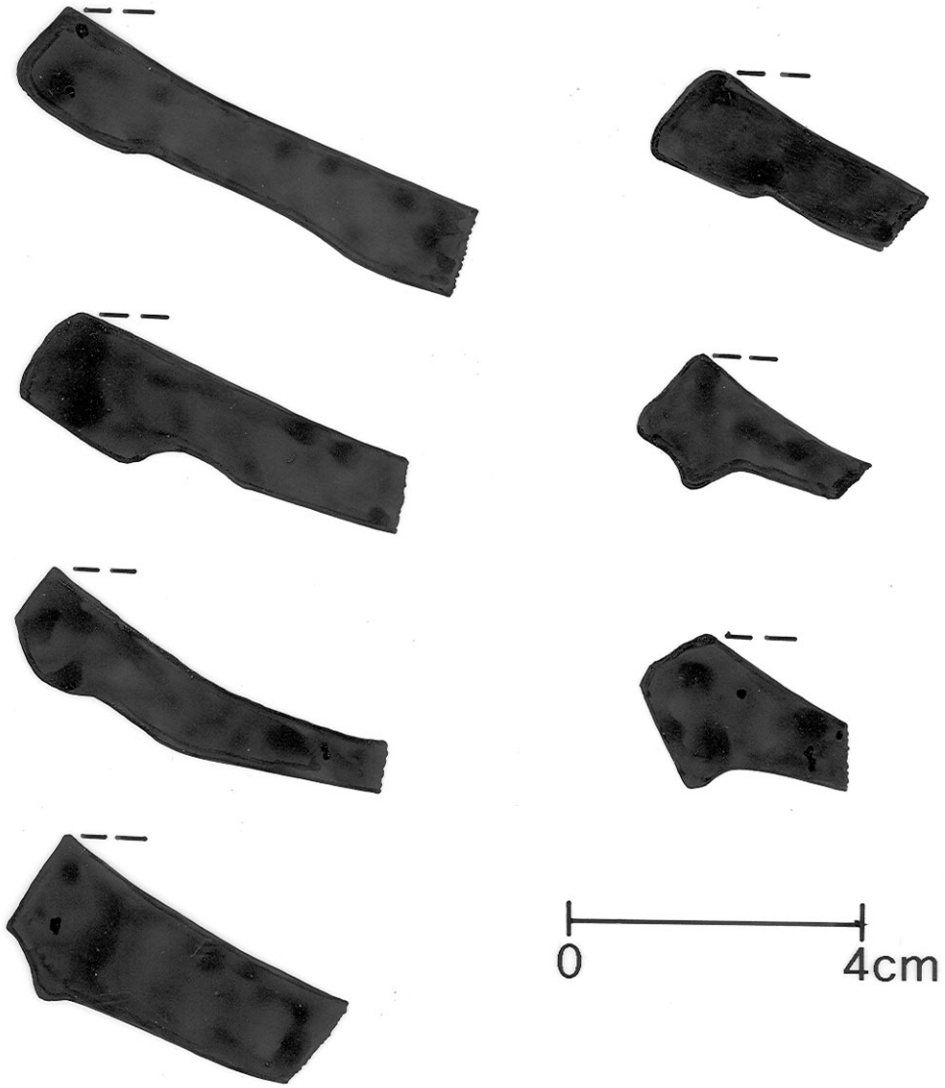

Figure 97. Fabric-impressed pan rim profiles.

Table 16. Other Ceramic Artifacts.

Provenance	Disk	Earplug	Trowel	Bead	Sphere	TOTAL
General Surface	2	1	1	-	-	4
Structure 2, above floor /on floor	-	1	-	-	1	2
Structure 2, burned clay zone	1	1	-	1	-	3
Near Hearth 5	1	-	-	-	-	1
Feature 10	1	-	-	-	-	1
Feature 11	-	-	1	-	-	1
Feature 16	1	1	-	-	-	2
Feature 18	-	1	-	-	-	1
Feature 20	-	1	-	-	-	1
Feature 38	1	-	-	-	-	1
Feature 39	-	1	-	-	-	1
Feature 57	1	-	-	-	-	1
Feature 58	1	-	-	-	-	1
Feature 78	1	-	-	-	-	1
Feature 83	1	-	-	-	-	1
Feature 84	1	-	-	-	-	1
Feature 91	-	1	-	-	-	1
Feature 96	1	-	-	-	-	1
Feature 105	1	-	-	-	-	1
Burial 12 fill	-	1	-	-	-	1
Burial 49	-	1	-	-	-	1
Burial 79	-	1	-	-	-	1
TOTAL	14	11	2	1	1	29

Table 17. Provenance and Attributes of Recovered Ceramic Disks.

Provenance	Sherd Paste	Exterior Surface Decoration	Diameter (in mm)	Thickness (in mm)
General Surface	moderate compact	none	47.3	11.5
General Surface	moderate compact	none	57.9	13.6
Near Hearth 5	moderate compact	none	35.4	8.3
Structure 2, burned clay zone	moderate compact	none	61.8	10.1
Feature 10	moderate compact	none	79.7	7.0
Feature 16	moderate compact	fabric-impressed	54.5	13.1
Feature 38	moderate compact	none	32.0	8.1
Feature 57	compact	none	63.4	7.6
Feature 58	compact	none	63.5	8.6
Feature 78	moderate compact	fabric-impressed	52.0	15.9
Feature 83	compact	none	56.7	13.2
Feature 84	moderate compact	none	37.7	8.9
Feature 96	moderate compact	none	67.0	6.7
Feature 105	moderate compact	none	48.7	7.3

Table 18. Provenance and Attributes of Recovered Earplugs.

Provenance	Style	Maximum Length (mm)	Maximum Diameter (mm)	Groove Diameter (mm)	Center Hole Diameter (mm)	Weight (g)
General Surface	dumbbell	-	22.1	19.9	2.7	-
Structure 2, above floor /on floor	dumbbell	29.4	22.1	17.1	3.0	-
Structure 2, burned clay zone*	dumbbell	32.9	24.6	19.9	2.9	19.4
Feature 16	dumbbell	-	19.1	-	2.8	-
Feature 18	dumbbell	-	-	-	no hole	-
Feature 20	dumbbell	-	-	-	2.6	-
Feature 39*	hourglass	22.7	17.2	14.1	2.7	6.6
Feature 91	dumbbell	-	26.3	-	no hole	-
Burial 12 fill	dumbbell	-	-	-	2.6	-
Burial 49*	dumbbell	24.7	18.8	15.4	no hole	9.4
Burial 79*	dumbbell	31.2	25.7	22.6	3.8	19.5

* = complete artifact

All of the 40Wm210 earplugs display burnished exterior surfaces. Ten artifacts are of the "dumbbell" style, comprising stout earplugs with rounded ends that abruptly constrict to a central groove. One specimen is constructed in an "hourglass" style, with more flattened ends that gradually taper to a narrow middle. Seven earplugs have holes drilled through the length of the artifact.

Trowel Fragments

Sample size: n=2.

Comments: Feature 11 yielded a bifurcate handle fragment from a mushroom-shaped trowel. This particular specimen was manufactured by tightly rolling a compact clay paste tempered with finely crushed mussel shell. The second item, recovered from the site surface, consists of a base fragment from a mushroom-shaped trowel. Unlike the first artifact, however, this fragment was constructed from a poorly compacted paste containing large amounts of coarsely ground mussel shell. The estimated diameter of this base fragment is 100.0 mm.

Bead

Sample size: n=1.

Comments: This circular bead measures 21.7 mm in diameter and 14.7 mm thick. A small hole in the center of the bead measures 1.8 mm in diameter. This specimen has a burnished exterior surface, and is made from a sandy clay paste containing grit particles up to 3.0 mm in size. These particles are probably part of the natural clay matrix.

Sphere

Sample size: n=1.

Comments: Among the artifacts found in Structure 2 was this clay sphere measuring 29.2 mm in diameter. The exterior surface, although not perfectly round, is smoothed. The clay used to make this artifact has no apparent temper.

The term "marble" is given to similar artifacts from other study area sites, since they do resemble modern clay marbles (Moore and Smith 2001). However, their use has yet to be accurately determined.

Figure 98. Ceramic disks.

Figure 99. Earplugs.

VIII. LITHIC ARTIFACT DESCRIPTIONS

Michael C. Moore

The 1997 salvage excavations yielded a rather modest assemblage of chipped, ground, and pecked stone artifacts. A total of 1439 lithic specimens have been sorted into 21 categories based upon certain morphological or functional characteristics. The specific categories are core, thick biface, thin biface, primary flake, secondary flake, blank flake, modified/utilized flake, rejuvenation flake, blocky debris, projectile point, drill, scraper, chisel, celt, disk, mano, metate, nutting stone, abrader, unidentified groundstone, and hammerstone. Descriptions of each category (as well as particular artifacts assigned to them) are provided in the following paragraphs. Information on artifact provenance and counts can be found in Table 19.

Chipped Stone

Cores (n=39)

Cores are chert cobbles (and cobble sections) that display regular patterns of flake removal. The objective of reducing these cobbles is the production of flakes rather than working the cobble itself into a tool. The Brentwood Library cores derive from locally available cobbles that range from small (expended?) to moderate in size. All of these specimens display multi-directional flake scars, suggesting that flakes were detached in an opportunistic manner. No microblade or bipolar cores were observed in this sample.

Thick Bifaces (n=15)

Artifacts assigned to this category consist of small (local) chert cobbles that are bifacially worked and minimally shaped. Primary characteristics of thick bifaces include large flake scars, sinuous edges, and thick cross-sections. Many of the 40Wm210 specimens exhibit prominent step and hinge fractures along the lateral edges, as well as a variable amount of cortex on their exterior surfaces.

Thin Bifaces (n=15)

Thin bifaces are the product of additional reduction and shaping of thick bifaces. These artifacts generally display much thinner cross-sections and less sinuous edges. In addition, the flake scars are often smaller with little to no cortex left on the biface. All of the 40Wm210 specimens are made from local chert cobbles.

Flakes (n=1092)

This category includes unmodified flakes created as a result of chipped stone manufacturing and maintenance activities. These specimens are classified as primary, secondary, or blank based upon a cobble reduction sequence and the amount of cortex remaining on the dorsal surface. Primary flakes (n=33) display cortex over their entire dorsal surface, whereas secondary flakes (n=175) exhibit less than 90% cortex over

Table 19. Provenance and Number of Recovered Lithic Artifacts from the 1997 Investigations.

Provenance	Core	Thk Bifc	Thn Bifc	Prim Flak	Sec Flak	Blnk Flak	M/U Flak	Rjv Flak	Blky Deb	Prj Pnt	Drl	Scr	Chsl	Celt	Disk	Mano	Meta	Nut Stn	Abrd	Unid GStn	Hmr	Total
General Site Collection	15	4	7	5	29	107	3	12	2	30	1	-	5	14	4	1	1	-	2	-	1	243
Structure 1																						
General Collection	-	1	-	2	2	6	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	15
Feature 112 (hearth)	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Feature 120 (post)	-	-	-	-	-	3	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	5
Feature 150 (post)	-	-	-	-	-	5	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	7
Structure 2																						
General Collection	1	4	1	5	15	66	1	-	10	-	-	-	-	-	-	2	-	-	1	1	-	107
Burned clay zone	-	-	-	3	7	27	-	1	4	-	-	-	-	-	-	-	-	-	2	-	-	44
Fill above/on floor	-	-	1	1	4	21	1	-	2	-	-	-	-	1	-	1	-	-	-	-	-	32
Structure 3																						
Feature 530 (post)	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Structure 6																						
General Collection	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1
Structure 13																						
General Collection	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1
Structure 24																						
Feature 1686 (hearth)	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Structure 49																						
General Collection	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1
Structure 54																						
General Collection	-	1	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	4
Feature 6 (E ½)	-	-	-	1	-	4	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	6
Feature 8	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Feature 9	1	-	-	1	5	16	1	-	5	-	-	-	-	-	-	-	1	-	-	-	-	30
Feature 10	-	-	1	2	23	76	3	2	7	3	-	-	-	1	1	1	-	-	-	-	-	120
Feature 11	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Feature 12	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Feature 13	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Feature 14	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Feature 15	1	-	-	-	4	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
Feature 16	3	-	2	1	7	21	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	38
Feature 17	-	-	-	-	-	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	4
Feature 18	1	-	-	-	3	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44
Feature 18B	1	-	-	-	3	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32
Feature 18C	-	-	-	-	-	15	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	17
Feature 18D	-	-	-	-	1	28	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	30
Feature 18E	-	-	-	-	6	82	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	91

Table 19. Provenance and Number of Recovered Lithic Artifacts from the 1997 Investigations. (continued)

Provenance	Core	Thk Bifc	Thn Bifc	Prim Flak	Sec Flak	Blnk Flak	M/U Flak	Rjv Flak	Blky Deb	Prj Pnt	Drl	Scr	Chsl	Celt	Disk	Mano	Meta	Nut Stn	Abrd	Unid GStn	Hmr	Total
Feature 18F	-	-	-	-	5	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7
Feature 20	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Feature 21	-	-	-	-	-	5	-	-	1	-	-	-	-	-	1	1	1	-	-	-	-	9
Feature 22	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	4
Feature 23	2	-	-	-	4	8	-	-	6	-	-	-	-	-	-	1	-	-	-	-	-	21
Feature 24	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Feature 26	1	-	1	-	-	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	5
Feature 34 (N ½)	-	1	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Feature 37	2	-	-	2	3	8	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	17
Feature 38	-	-	-	-	-	3	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	4
Feature 39	1	-	-	-	1	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9
Feature 43	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Feature 46	-	-	-	-	-	3	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	5
Feature 47	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Feature 49	-	-	-	-	1	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
Feature 50	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Feature 53	1	-	-	2	1	6	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	12
Feature 54	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	2
Feature 55	1	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	1	-	1	1	6
Feature 56 (S ½)	-	-	-	-	-	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	3
Feature 57	-	1	-	-	1	8	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	12
Feature 58	-	-	-	-	2	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
Feature 59	-	-	1	-	5	6	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	13
Feature 60	-	-	-	1	3	15	-	-	3	-	-	-	-	1	-	-	-	-	-	-	-	23
Feature 61	-	-	-	-	-	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	4
Feature 62	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	3
Feature 63	-	-	-	-	1	6	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	8
Feature 64 (E ½)	-	-	-	-	2	8	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	15
Feature 66	-	-	-	1	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
Feature 70	-	-	-	-	3	9	-	-	2	-	-	-	-	-	-	-	1	-	-	-	-	15
Feature 72	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Feature 73	-	-	-	-	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
Feature 74	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Feature 75	1	-	-	1	3	21	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	29
Feature 76	-	-	-	-	1	5	-	-	1	-	-	-	-	-	1	1	-	-	-	-	-	9
Feature 77	-	-	-	-	2	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	4
Feature 78	-	-	-	1	-	8	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	11
Feature 79 (E ½)	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Feature 81 (SW ½)	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Feature 82	-	-	-	1	-	11	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	13

Table 19. Provenance and Number of Recovered Lithic Artifacts from the 1997 Investigations. (continued)

Provenance	Core	Thk Bifc	Thn Bifc	Prim Flak	Sec Flak	Blnk Flak	M/U Flak	Rjv Flak	Blky Deb	Prj Pnt	Drl	Scr	Chsl	Celt	Disk	Mano	Meta	Nut Stn	Abrd	Unid GStn	Hmr	Total
Feature 83	1	1	-	-	1	2	-	-	-	-	-	-	-	-	6	-	-	-	-	-	-	11
Feature 84	-	-	-	-	2	6	-	-	-	-	-	-	1	-	3	-	-	-	-	-	-	12
Feature 86 (W ½)	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	3
Feature 87 (W ½)	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Feature 92	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	2
Feature 93 (W ½)	-	-	-	-	1	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9
Feature 94 (N ½)	-	-	-	-	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19
Feature 95 (E ½)	-	-	-	-	-	4	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	5
Feature 96 (N ½)	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Feature 102 (N ½)	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Feature 107 (W ½) 5		1	1	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Feature 108	-	-	-	-	-	4	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	5
Feature 402	-	-	-	-	-	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	3
Feature 406	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Burial 1	1	-	-		1	6	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	9
Burial 2	-	-	-	-	-	1	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	3
Burial 3	-	-	-	-	1	5	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	11
Burial 4	-	-	-	-	-	3	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	7
Burial 5	-	-	-	-	2	7	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	14
Burial 6	-	-	-	-	-	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	4
Burial 9	-	-	-	-	-	1	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	3
Burial 12	1	-	-	-	-	9	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	12
Burial 13	-	-	-	-	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	3
Burial 14	1	-	-	-	-	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	5
Burial 15	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Burial 31	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Burial 42	-	-	-	1	2	2	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	6
Burial 43	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Burial 44	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Burial 46	-	-	-	-	-	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	3
Burial 47	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	2
Burial 49	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	2
Burial 50	-	-	-	-	-	2	-	-	5	-	-	1	-	-	-	-	-	-	-	-	-	8
Burial 57	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	2
Burial 59	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Burial 61A&B	-	-	-	-	-	2	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	3
Burial 64B	-	-	-	-	1	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
Burial 65	-	-	-	-	1	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
Burial 66	-	-	-	-	-	12	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	13

Table 19. Provenance and Number of Recovered Lithic Artifacts from the 1997 Investigations. (continued)

Provenance	Core	Thk Bifc	Thn Bifc	Prim Flak	Sec Flak	Blnk Flak	M/U Flak	Rjv Flak	Blky Deb	Prj Pnt	Drl	Scr	Chsl	Celt	Disk	Mano	Meta	Nut Stn	Abrd	Unid GStn	Hmr	Total
Burial 71	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	2
Burial 75	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Burial 76	-	-	-	-	-	5	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	8
Burial 77	-	-	-	-	-	3	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	4
Burial 78	-	-	-	-	1	5	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	9
Burial 79	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Burial 82	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Burial 83	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
Burial 84B	-	-	-	-	1	5	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	8
Burial 85	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
TOTAL	39	15	15	33	175	884	11	17	126	42	1	1	8	20	19	9	7	1	9	4	3	1439

their dorsal surface. Blank flakes (n=884) have no cortex except occasionally over their striking platform.

The vast majority of flakes recovered from the Brentwood Library site are made from locally available cherts (primarily Ft. Payne). One secondary flake and 36 blank flakes of non-local Dover chert comprise 3.4% of the flake sample. In addition, one blank flake of non-local Burlington chert was recovered from Structure 2 (fill above/on floor).

Modified/Utilized Flakes (n=11)

Flakes with intentional, consistent and even flaking along one or more lateral edges were placed in this category. Three functional subcategories (scraper, cutting tool, and spokeshave) were identified based upon morphological and wear characteristics. Scraping tools display steep, unifacial flaking along one or more edges with fine unifacial microflaking along the same edge. These tools differ from formal scrapers in that they have been less extensively chipped and shaped. Cutting tools are bifacially retouched flakes with fine bifacial microflaking along the same edge. Spokeshaves comprise flakes that exhibited a unifacially retouched, concave edge.

All modified/utilized tools are derived from locally available cherts. Eight flakes assigned to this category are scraping tools, with two made from secondary flakes and six from blank flakes. One modified scraping tool (blank flake) was recovered with a mass of burned deer and bear bone in the northeast corner of Structure 2. Two blank flake spokeshaves were retrieved from refuse-filled pits.

One large, blade-like, flake fragment of local chert was found along the site surface. Bifacial flaking is visible along both lateral edges. This (blank) flake tool measures 72.7 mm long, 30.6 mm wide, and 10.7 mm thick. Although categorized as a cutting tool, each lateral edge of this flake displays extensive crushing and battering (possibly from use as a gouge or wedge?). This item may not be Mississippian in origin.

Rejuvenation Flakes (n=17)

Rejuvenation flakes have highly polished dorsal surfaces and generally originate from hoe, chisel, or celt resharpening activities. Most (n=15) of these artifacts are made from locally available cherts. The other two flakes are made of Dover chert.

Blocky Debris (n=126)

Blocky debris consists of angular and blocky fragments produced as a by-product of chipped stone tool manufacture/maintenance activities. These artifacts often occur as shatter during percussion flaking. Nearly all of these specimens derive from locally available chert (mostly Ft. Payne). The sample did contain one item of Dover chert.

Projectile Points (n=42; Figure 100; Table 20)

This functional category includes notched and unnotched bifaces interpreted as dart and arrow points. The points are classified by morphological characteristics, with previously established type names used when possible (Cambron and Hulse 1983; Justice 1987). Nearly 70% (n=29) of the artifacts assigned to this category come from

the site surface. Twelve specimens were recovered from refuse-filled pit features, with one point found in Burial 47. All projectile points from the site are manufactured from local cherts.

The vast majority of projectile points (n=35) from the site area consist of unidentified specimens, including five corner-notched and three stemmed darts. The remaining unidentified sample is represented by a variety of dart tip, blade, and stem fragments.

Four identified points comprise darts dating to the Early and Middle Archaic periods (see Table 20). Another three points are Mississippian period Madison arrow points. About 93% of all projectile points recovered during the 1997 investigations originate from time periods preceding the Mississippian occupation. Previous studies indicate this situation is not unusual for study area Mississippian sites (Moore and Breitburg 1998; Moore and Smith 2001).

Drill (n=1)

One drill fragment of locally available (Ft. Payne) chert was collected from the site surface. This bifacially worked specimen has an oval to rectangular base that measures 20.7 mm long, (at least) 16.2 mm wide, and 10.0 mm thick. The base contracts to a parallel-sided (albeit slightly contracting) bit measuring (at least) 23.6 mm long, 7.4 to 9.2 mm wide, and 5.7 mm thick. The bit end is missing.

Figure 100. Selected projectile points: (two on left) Lost Lake; (middle) Kirk Corner-Notched; (two on right) Madison.

Table 20. Identified Projectile Points.

Projectile Point	Provenance	Number	Cultural Affiliation
Kirk Corner-Notched	General Surface	1	Early Archaic
Lost Lake	General Surface	2	Early Archaic
Benton (reworked?)	General Surface	1	Middle Archaic
Madison	General Surface	1	Mississippian
Madison	Feature 60	1	Mississippian
Madison	Burial 47	1	Mississippian

Scraper (n=1)

Excavation of the Burial 50 fill yielded one end scraper of local Ft. Payne chert. This somewhat triangular item is bifacially worked with steep retouch along the distal end. The flaking pattern suggests this artifact was originally a (stemmed?) dart point later reworked into an end scraper.

Chisels (n=8)

Chisels are interpreted as specialized woodworking implements. These bifacially flaked artifacts are generally rectangular and exhibit a distinctive plano-convex cross-section with heavily polished bit ends. Lateral edges can also display variable amounts of polish, with some specimens entirely smoothed (flake scars often still visible). Chisels vary in size due to continuous resharpening, and possibly craftsman needs.

Seven of the eight chisels recovered from the 40Wm210 excavations are represented by midsection and bit fragments manufactured from locally available cherts. One midsection fragment (from a well-crafted implement) from the floor of Structure 6 measures 35.5 mm wide and 12.3 mm thick.

Feature 84 yielded one unusual chisel made of cherty limestone. This rather bulky (unfinished?) artifact has a somewhat rectangular to oval plan-view, and a plano-convex cross-section. Hinge and step fractures are common along the lateral edges, an expected result given the parent material. However, the bit edge is convex with slight polish visible above and below the bit. This specimen measures 105.5 mm long, 49.2 mm wide, and 34.1 mm thick.

Ground and Pecked Stone

Celts (n=20; Figures 101 and 102; Table 21)

Artifacts assigned to this category exhibit highly polished exterior surfaces, straight to convex bit edges, and bodies that gently taper from the bit end to a rather flattened end with rounded corners. These woodworking tools also display cross-sections ranging from somewhat oval to rectangular with rounded corners.

Table 21. Provenance and Measurements of Selected Celts.*

Provenance	Material	Length	Width	Thickness	Wt (g)
General Collection	limestone	149.1**	79.3	52.9	901.1
General Collection	limestone	110.7**	58.9**	33.6	206.5
General Collection	limestone (unfinished)	205.1	67.7	33.3	660.0
General Collection	limestone	172.5	76.7	47.1	814.9
General Collection	Ft. Payne chert	76.1**	49.0	26.1	121.2
General Collection	Ft. Payne chert	81.8**	75.1	55.2	435.7
General Collection	greenstone	84.3**	61.1	37.2	314.4
Structure 13	limestone	134.3	74.7	38.0	478.8
Feature 38	limestone (unfinished)	112.7	63.9	33.1	351.5
Feature 60	limestone	79.3**	59.1	36.8	216.4
Burial 47	greenstone	113.8	62.4	30.2	330.4

* = measurements in mm.
** = broken.

Celts were recovered from a variety of site contexts. Most derived from general surface collections (n=14), with the remainder of the sample acquired from structure floors (n=2), pit features (n=2), and a human burial (n=1). Local varieties of cherty limestone (n=9) and Ft. Payne chert (n=8) are the most common materials used to manufacture these celts. Three specimens are made of non-local greenstone.

Finished limestone celts from 40Wm210 (whether complete or fragmented) tend to be large and rather heavy artifacts (Figure 101). One complete specimen from the site surface measures 172.5 mm long, 76.7 mm wide, 47.1 mm thick, and weighs over 800 grams. In addition, a broken specimen (also from the site surface) is 149.1 mm long, 79.3 wide, 52.9 mm thick, and weighs just over 900 grams. Several other sizeable fragments were recovered during the site excavations (see Table 21).

As mentioned before, two limestone specimens were recorded within residential structures. The first item is a celt from the floor of Structure 2. This particular artifact is badly fractured as a result of heat exposure when the structure burned. A second celt was found in the northeast corner of Structure 13. This nearly complete specimen measures 134.3 mm long, 74.7 mm wide, 38.0 mm thick, and weighs 478.8 grams.

Table 21 denotes two limestone specimens as unfinished celt blanks. Both artifacts (one from the site surface, the other from Feature 38) have been pecked into generalized celt forms. The beginning of a bit edge is visible on the artifact from the site surface. The exterior surfaces of both artifacts have yet to be smoothed and polished. The item from the site surface is rather long, measuring 205.1 mm long, 67.7 mm wide, and 33.3 mm thick. The second artifact from Feature 38 is much shorter in length (112.7 mm) but similar in width (63.9 mm) and thickness (33.1 mm).

Eight celt fragments of Ft. Payne chert were recovered from the site surface. One large midsection (75.1 mm wide and 55.2 mm thick) and a moderate-size bit section (at least 76.1 mm in length) represent the only measurable fragments. The other six specimens comprise rather small midsection and bit pieces.

Figure 101. Limestone celt from site surface.

Figure 102. Greenstone celt from Burial 47.

Burial 47 yielded one complete greenstone celt with polished surfaces and a fine-honed bit edge (see Figure 102). This example of fine craftsmanship measures 113.8 mm long, 62.4 mm wide, 30.2 mm thick, and weighs 330.4 grams. Two additional greenstone specimens from the site surface included one sizeable bit and midsection fragment weighing 314.4 grams.

Disks (n=19; Figure 103; Table 22)

A total of nineteen disks were recovered from the investigations. These small to moderate-size artifacts exhibit circular plan-views, tabular cross-sections, and ground exterior surfaces. Eighteen specimens are made of an abrasive siltstone. The other disc is made of limestone. Discs have often been interpreted as gaming pieces, but alternative suggestions should not be discounted.

A substantial percentage of the disk sample was retrieved from two adjacent refuse-filled pits along the southeastern site border. Features 83 and 84 yielded six (31.6%) and three (15.8%) disks, respectively. Four specimens were collected from the site surface. A disc found inside Structure 49 had been disturbed by heavy machinery.

Manos (n=9)

These grinding implement fragments, made of an abrasive siltstone, exhibit heavily ground and flattened surfaces. Several specimens also display rounded lateral edges. Structure 2 yielded three manos. One came from the fill above/on the floor, whereas the other two were picked up around the general structure locale.

Figure 103. Selected stone disks.

Table 22. Provenance and Measurements of Stone Disks.*

Provenance	Material	Diameter	Thickness	Comment
General Collection	siltstone	60.5	14.9	
General Collection	siltstone	49.1	18.2	
General Collection	siltstone	58.8	16.0	
General Collection	siltstone	36.3	11.8	Shallow center holes (2.9 mm dia).
Structure 49	siltstone	39.7	18.3	
Feature 10	siltstone	43.8	15.8	
Feature 21	siltstone	36.7	20.7	Item fractured.
Feature 55	siltstone	51.3	24.4	
Feature 76	siltstone	34.2**	18.3	
Feature 83	siltstone	36.6	9.9	
Feature 83	siltstone	48.4	18.1	
Feature 83	siltstone	51.6	17.3	
Feature 83	siltstone	38.5**	18.8	Item fractured.
Feature 83	siltstone	45.4**	17.0	Item fractured.
Feature 83	siltstone	43.6	16.8	
Feature 84	siltstone	57.3	16.3	
Feature 84	siltstone	46.5	16.1	
Feature 84	siltstone	48.4	18.7	
Feature 92	limestone	60.3	23.1	

* = measurements in mm.
** = broken.

Metates (n=7)

One relatively complete (yet fractured) metate was found in Feature 21, a refuse-filled pit located just north of Structure 3 and southwest of Structure 13. This specimen is made from a tabular block of abrasive siltstone, and exhibits a reddish cast due to high iron content (Michael Hoyal, personal communication 2003). Roughly rectangular in plan-view, this grinding platform displays one heavily ground and slightly concave surface. Approximate dimensions for this fractured specimen are 244 mm long, 170 mm wide, and 69 mm thick.

The remaining six artifacts assigned to this category are small fragments of abrasive siltstone. Five fragments are somewhat thin, tabular pieces with heavily ground and slightly concave surfaces on both sides. These specimens range from 8.1 mm to 24.3 mm in minimum thickness. The sixth fragment is blocky and obviously derives from a substantial metate with (at least) one heavily ground surface.

Nutting Stone (n=1)

Feature 55 yielded the only nutting stone recovered from the site. This tabular (abrasive) siltstone tool is triangular in plan-view with sides measuring between 68.1 mm and 74.8 mm in length. Heavily ground and slightly concave opposing surfaces indicate this item was originally part of a metate. A single shallow depression is pecked in the center of each opposing surface. These roughly circular depressions measure 22.6 mm and 27.4 mm in diameter.

Abraders (n=9)

Each artifact assigned to this category is made of an abrasive siltstone. Eight of the nine abraders from 40Wm210 are small, irregular-shaped pieces with one or more linear grooves (U and/or V-shaped) along their exterior surface. Three of these particular specimens were found in Structure 2.

One tabular abrader measuring 92.1 mm long, 69.2 mm wide, and 22.3 mm thick was recovered from the floor of Structure 54. This somewhat rectangular artifact displays a significant amount of grinding on both flat surfaces and may have originally been part of a metate. A single U-shaped groove measuring 8.8 mm wide and 1.7 mm to 2.5 mm wide is present along one flat surface.

Unidentified Groundstone (n=4)

Unidentified groundstone is used to classify artifacts with ground or polished exterior surfaces that cannot be confidently assigned to a recognized formal type. The few items assigned to this category are made of abrasive siltstone, shale, and cannel coal.

Two small, tabular pieces of abrasive siltstone were found in refuse-filled pits (Features 55 and 63). Both items have opposing ground surfaces and probably comprise metate fragments.

Another artifact assigned to this category is a fragmented section of black shale found in the northeast corner of Structure 2. This somewhat rectangular item is thin (5.9 mm) and measured at least 118.9 mm long and at least 97.5 mm wide. Each flat surface was ground and the lateral ends had been worked into straight edges. This artifact could represent some type of specialized pallet or metate, although it is much too brittle for heavy grinding action.

A heavily ground, black cannel coal object measuring 84.9 mm long, 52.7 mm long, and 17.4 mm thick was recovered from Burial 84B. This artifact displays a semi-circular plan-view and bi-convex cross-section. Random etched lines are visible on one broad surface. Similar cannel coal artifacts have been previously interpreted as tools for smoothing ceramic vessels.

Hammerstones (n=3)

The Brentwood Library excavations discovered three chert cobbles (locally available) that were used as hammerstones. Each cobble exhibits (at least some) waterworn cortex along the exterior surface, implying they had been collected from nearby streambeds.

One rather small cobble section from Feature 61 displays bifacially worked lateral edges that are extensively battered and crushed. The other two artifacts (retrieved from the site surface and Feature 55) also display battered and crushed lateral edges. However, neither cobble was bifacially reduced to create a working edge. The hammerstone collected from the site surface is a somewhat small, complete (Ft. Payne?) chert cobble measuring 60.6 mm in diameter and 38.3 mm thick.

Lithic Resources

The Brentwood Library lithic assemblage is a bit meager compared to collections obtained from other study area Mississippian sites (Table 23). Despite its modest size, however, this collection provides important clues regarding the stone resource needs of Middle Cumberland Mississippian groups living in the Little Harpeth River watershed. Previous site excavations have shown that area residents utilized a variety of local and exotic stone (Ferguson 1972; Myer 1928). The Brentwood Library occupants are no exception, as will be discussed below.

Locally available resources account for 96.9% (n=1394) of the 1439 recovered lithic artifacts. Most of these specimens derive from chert sources that outcrop in the nearby Highland Rim, as well as scattered erosional remnants within the Central Basin (Miller et al. 1966). The presence of smooth, waterworn cortex on numerous flakes and other items indicates the majority of these local resources are acquired from nearby streambeds.

Ft. Payne is the primary local chert resource observed in the assemblage. This material originates from the Mississippian Ft. Payne Formation and is opaque with a variety of textures and colors (Amick 1987). These textures and colors can be quite diverse (and at times mixed) even within the same source. Textures range from fine-grain to rather coarse. Various shades of blue, gray, and brown comprise the most common colors.

Other local cherts in the assemblage include St. Louis, (possibly) Warsaw, and Bigby-Cannon. St. Louis and Warsaw cherts come from the Mississippian St. Louis and Warsaw Limestone Formations, respectively. The distinctive deep blue to blue-gray St. Louis chert is an isotropic, opaque, and fine-grain resource. Warsaw chert is homogenous and opaque with a gray to mottled gray-white color. Area natives also utilized chert gravel deriving from Ordovician limestone formations (such as Bigby-Cannon). Bigby-Cannon chert (also referred to as cannonball chert) presents a distinctive bulls-eye appearance.

One local resource of considerable value to the 40Wm210 residents is limestone. The Brentwood Library site occupies an area rich in Mississippian limestone formations. Cherty limestone represents a local resource used by native residents to produce large celts. One disk of this material was also recovered from the excavations.

Manos, metates, abraders, and most disks are made from an abrasive material previously described as sandstone (Moore and Breitburg 1998; Moore and Smith 1993a, 2001). Visible sand grains and the materials' abrasive texture prompted such designations. However, this material has been recently identified as a siltstone derived from the Mississippian Ft. Payne limestone formation (Michael Hoyal, personal communication 2003). This (more accurately defined) abrasive siltstone occurs locally in nearby limestone outcrops.

Shale recovered from the Brentwood Library site likely originates from the Devonian Chattanooga Shale formation. This formation, overlain by the Mississippian Ft. Payne Formation, marks the contact point between the Central Basin and Highland Rim. Prevalent along the Highland Rim, this black and somewhat brittle material can be found in streambeds throughout the study area.

Table 23. Local and Non-Local Lithics from Study Area Mississippian Sites.

Site	Local Sources	Dover Chert	Waverly Chert	Burlington Chert	Mill Creek Chert	Green Stone	Total
Averbuch, 40Dv60	24,759	613	-	-	-	-	25,372
Brandywine Pointe, 40Dv247	8394	14	-	-	-	1	8409
Rutherford-Kizer, 40Su15	5751	202	-	4	-	7	5964
Sandbar Village, 40Dv36	2632	49	1	4	-	-	2686
Kellytown, 40Wm10	2256	2	-	-	-	-	2258
Kelly's Battery, 40Dv392	2192	1	-	-	-	3	2196
Brentwood Library, 40Wm210	1394	40	-	1	-	3	1439
Gordontown, 40Dv6	941	7	-	-	-	2	950
French Lick, 40Dv5	739	22	-	-	-	-	761
East Nash Mounds, 40Dv4	262	144	-	-	3	5	414
Brick Ch. Bus. Park, 40Dv301	107	9	-	-	-	1	117
Hooper, 40Dv234	87	3	-	-	-	1	90

Sources: Barker 2005; Jones 2001; Klippel and Bass 1984; Moore and Breitburg 1998; Moore and Smith 1993a, 2001; Smith and Moore 1996a, 2000; Smith et al. 1993; Walling et al. 2000.

Non-local resources combined for 3.1% (n=45) of the assemblage. Dover chert accounts for a significant percentage of the exotic resources, followed by smaller amounts of greenstone and Burlington chert. As shown in Table 23, Dover chert and greenstone commonly occur on study area Mississippian sites. On the other hand, few sites within the Middle Cumberland region have yielded Burlington chert.

Dover chert is homogenous, non-lustrous, and gray to brown in color with mottled black and gray inclusions. This exotic resource originates from quarries near the town of Dover in Stewart County, Tennessee about 100 km to the northwest of 40Wm210. Additional sources have been reported just south of Stewart County in Houston and Humphreys Counties (John Broster, personal communication 1993). Dover is used to manufacture a variety of domestic, utilitarian Mississippian tools such as hoes, chisels/adzes, and knives. Status items like maces and "ceremonial" swords are also made of this material. About three percent (n=40) of the Brentwood Library lithic assemblage is Dover chert. Interestingly, all of these items are waste products, including one secondary flake, 36 blank flakes, two rejuvenation flakes, and one blocky debris. No chipped or groundstone tools of Dover chert (such as knives, hoes, chisels, or celts) were recovered from the site.

Burlington chert is a homogenous, fine-grain, and (generally) white-colored material that originates from the Burlington Limestone formation in the Central Mississippi Valley region of Illinois and Missouri (Meyers 1970; Morse and Morse 1983). Only a few sites within the Middle Cumberland region have reported this material, but this dearth may be the result of identification error or sample bias (Moore and Smith 2001; Smith and Moore 2000). A blank flake from Structure 2 comprises the only item of Burlington chert recovered from the site.

Mississippian sites throughout the Middle Cumberland region consistently yield greenstone celts and rejuvenation flakes, albeit in relatively few numbers. This hard, dark green material likely derives from the Appalachian Mountain chain east and southeast of the study area. To date, however, no formal source studies have been

conducted for greenstone items found in the Middle Cumberland drainage. One outcrop has been recorded along the Hiwassee River near the Hiwassee Old Town site (40Pk3) in Polk County, Tennessee (Riggs et al. 1988). The three greenstone artifacts from 40Wm210, one complete and two fragmented celts, comprise less than 0.1% of the site lithic assemblage.

Cannel coal originates from the Pennsylvanian age deposits of the Cumberland Plateau located east of the Central Basin (Born 1936). This black, bituminous mineral appears (in small amounts) on sites throughout the Middle Cumberland valley, generally as irregular shaped objects with little apparent function. For the most part, this material has been ignored in the resource origin sections of archaeological reports. Artifacts of cannel coal (when reported) usually receive little consideration beyond basic description. Although beyond the scope of this study, a more comprehensive investigation into the acquisition and use of this resource is warranted.

IX. FAUNAL REMAINS

Judith Sichler and Michael C. Moore

The 1997 excavations recovered 1659 identified vertebrate animal bones. These remains were obtained from a variety of site contexts, including the site surface, structures, pit features, and human burials. Table 24 presents the provenance and frequency of the identified faunal remains. A complete list of identified as well as indeterminate skeletal elements can be found in Appendix D.

Skeletal and Taxonomic Composition

The identified faunal elements from 40Wm210 consist of 75.0% (n=1244) mammal, 3.7% (n=61) bird, 19.5% (n=324) reptiles, and 1.8% (n=30) fish. About 8% (n=135) of the 1660 identified remains display some degree of burning. Cut marks indicative of human activity are visible on 11 specimens, or less than 1% of the sample. Two elements have been substantially modified for domestic use.

About 21% (n=262) of the identified taxa are mammals. As expected, white-tailed deer represents the most numerous mammal species with 195 elements and (at least) five individuals. Squirrels (n=17, MNI=3) are the next most common mammal species present, followed by striped skunk (n=11; MNI=2). One individual each of cottontail rabbit, black bear, raccoon, muskrat, beaver, woodchuck, and mole occur in the mammal sample. The fragmented nature of the Brentwood Library faunal assemblage is most evident by the fact that nearly 80% (n=981) of the total mammal sample could not be assigned to a specific species.

The only identified avifauna is wild turkey, represented by 11 specimens and two individuals. One perching bird element is present in the sample. As with the mammal sample, the vast majority of bird remains (n=49, 80.3%) could not be designated to a specific species.

Box turtle accounts for 74 specimens and three individuals. However, unidentified turtle remains (primarily carapace and plastron fragments) comprise 73.5% of the total reptile count. Ten vertebrae from (at least) one non-poisonous snake are also present. Two indeterminate fragments complete the reptile sample.

Fish remains comprise less than 2% of the 40Wm210 sample. The only identified elements consist of pharyngeal plate fragments from (at least) one drumfish.

Cut and Modified Bone

Cut marks are visible on eleven elements, including white-tailed deer (n=8), wild turkey (n=2), and unidentified large mammal (n=1). The deer sample is composed of leg and foot bones that display cuts due to skinning and disarticulating white-tailed deer carcasses. Cuts along several turkey long bones (humerus and tibiotarsus) may result from attempts to score and snap the bones to make awls or other tools. A rib section from an unidentified mammal also had cut marks.

Table 24. Identifiable Vertebrate Fauna From the 1997 Excavations.

		----------Structure 1----------				--------Structure 2--------			--Structure 3--	
	Gen Surf	Floor	Hrth	Fea 122	Fea 150	Floor	Burn Bne Ar	Burn Cl Zn	Hrth	Fea 555
MAMMALS										
Cervidae, Wapiti/Deer	4	-	-	-	-	-	-	-	-	-
Odocoileus virginianus, White-tailed deer	13	-	-	-	-	1	4	-	-	-
Mephitis mephitis, Striped skunk	-	-	-	-	-	-	-	-	-	-
Procyon lotor, Raccoon	-	-	-	-	-	-	-	-	-	-
Ursus americanus, Black bear	-	-	-	-	-	-	2	-	-	-
Canidae	-	-	-	-	-	-	-	-	-	-
Canis sp.	-	-	-	-	-	-	-	-	-	-
Cricetidae	-	-	-	-	1	-	-	-	-	-
Ondatra zibethicus, Muskrat	-	-	-	-	-	-	-	-	-	-
Castor canadensis, Beaver	-	-	-	-	-	-	1	-	-	-
Sciurus spp., Squirrel species	3	-	-	-	-	-	-	-	-	1
Marmota monax, Woodchuck	-	-	-	-	-	-	-	-	-	-
Sylvilagus floridanus, Cottontail rabbit	-	-	-	-	1	-	-	-	-	-
Scalopus aquaticus, Common mole	-	-	-	-	-	-	-	-	-	-
Indeterminate rodent fragments	1	-	-	-	-	-	-	-	-	-
Indeterminate mammal fragments	116	1	1	2	7	-	34	59	1	1
BIRDS										
Passerine spp., Perching birds	-	-	-	-	-	-	-	-	-	-
Meleagris gallopavo, Wild turkey	1	-	-	-	-	-	1	-	-	-
Indeterminate bird fragments	9	-	-	-	-	-	-	-	-	-
REPTILES										
Terrapene carolina, Box turtle	-	-	-	1	-	-	-	-	-	-
Turtle fragments	28	-	-	-	-	-	16	-	-	-
Colubridae, Non-poisonous snake	4	-	-	-	-	-	-	-	-	-
Indeterminate reptile fragments	-	-	-	-	-	-	-	-	-	-
FISHES										
Aplodinotus grunniens, Drumfish	-	-	-	-	-	-	-	-	-	-
Indeterminate fish fragments	6	-	-	-	10	-	-	-	-	-
TOTAL	185	1	1	3	19	1	58	59	1	2

Table 24. Identifiable Vertebrate Fauna From the 1997 Excavations. (continued)

	Str 38 Hearth	Str 45 F2269	Str 57 Area	Features 6	8	9	10	15	16	17	18	18A
MAMMALS												
Cervidae, Wapiti/Deer	-	-	-	-	-	-	-	-	-	-	-	-
Odocoileus virginianus, White-tailed deer	-	-	-	-	-	5	1	1	1	-	-	-
Mephitis mephitis, Striped skunk	-	-	-	-	-	-	-	-	-	-	-	-
Procyon lotor, Raccoon	-	-	-	-	-	-	-	-	-	-	-	-
Ursus americanus, Black bear	-	-	-	-	-	-	-	-	-	-	-	-
Canidae	-	-	-	-	-	1	-	-	-	-	-	-
Canis sp.	-	-	-	-	-	2	-	-	-	-	-	-
Cricetidae	-	-	-	-	-	-	2	-	-	-	-	-
Ondatra zibethicus, Muskrat	-	-	-	-	-	-	-	-	-	-	-	-
Castor canadensis, Beaver	-	-	-	-	-	-	-	-	-	-	-	-
Sciurus spp., Squirrel species	-	1	-	-	-	-	3	-	-	-	-	-
Marmota monax, Woodchuck	-	-	-	-	-	-	-	-	-	-	-	-
Sylvilagus floridanus, Cottontail rabbit	-	-	-	-	-	-	-	-	-	-	-	-
Scalopus aquaticus, Common mole	-	-	-	-	-	-	-	-	-	-	-	-
Indeterminate rodent fragments	-	-	-	-	-	-	-	-	-	-	-	-
Indeterminate mammal fragments	1	-	3	3	-	65	45	6	12	1	12	21
BIRDS												
Passerine spp., Perching birds	-	-	-	-	-	-	1	-	-	-	-	-
Meleagris gallopavo, Wild turkey	-	-	-	-	-	-	2	-	-	-	-	-
Indeterminate bird fragments	-	-	-	-	-	-	1	-	-	-	-	-
REPTILES												
Terrapene carolina, Box turtle	-	-	-	-	-	-	-	-	-	1	-	-
Turtle fragments	-	-	-	29	-	25	-	-	-	1	-	-
Colubridae, Non-poisonous snake	-	-	-	-	-	-	-	-	-	-	-	-
Indeterminate reptile fragments	2	-	-	-	-	-	-	-	-	-	-	-
FISHES												
Aplodinotus grunniens, Drumfish	-	-	-	-	-	-	3	-	-	-	-	-
Indeterminate fish fragments	-	-	-	4	1	-	1	-	-	-	-	-
TOTAL	3	1	3	36	1	98	59	7	13	3	12	21

Table 24. Identifiable Vertebrate Fauna From the 1997 Excavations. (continued)

	Features														
	18B	18C	18D	18E	20	22	23	24	26	33	36	37	38	39	49
MAMMALS															
Cervidae, Wapiti/Deer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Odocoileus virginianus, White-tailed deer	3	-	-	2	1	-	5	-	-	-	-	1	101	-	-
Mephitis mephitis, Striped skunk	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Procyon lotor, Raccoon	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ursus americanus, Black bear	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Canidae	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Canis sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cricetidae	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ondatra zibethicus, Muskrat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Castor canadensis, Beaver	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sciurus spp., Squirrel species	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
Marmota monax, Woodchuck	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sylvilagus floridanus, Cottontail rabbit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Scalopus aquaticus, Common mole	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeterminate rodent fragments	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeterminate mammal fragments	27	-	4	28	2	-	22	1	4	10	75	3	-	2	-
BIRDS															
Passerine spp., Perching birds	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Meleagris gallopavo, Wild turkey	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-
Indeterminate bird fragments	-	-	-	2	-	1	-	-	1	2	-	-	-	-	1
REPTILES															
Terrapene carolina, Box turtle	-	-	10	-	-	-	-	-	-	-	-	-	18	9	-
Turtle fragments	1	1	-	3	-	9	-	11	-	-	-	-	45	-	1
Colubridae, Non-poisonous snake	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
Indeterminate reptile fragments	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHES															
Aplodinotus grunniens, Drumfish	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeterminate fish fragments	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
TOTAL	31	1	15	36	3	10	28	12	6	12	76	4	164	11	3

Table 24. Identifiable Vertebrate Fauna From the 1997 Excavations. (continued)

	Features														
	53	54	55	58	59	60	66	70	71	72	74	75	76	77	95
MAMMALS															
Cervidae, Wapiti/Deer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Odocoileus virginianus, White-tailed deer	1	-	1	1	1	-	-	-	1	-	-	5	2	-	15
Mephitis mephitis, Striped skunk	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Procyon lotor, Raccoon	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Ursus americanus, Black bear	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Canidae	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Canis sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cricetidae	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Ondatra zibethicus, Muskrat	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Castor canadensis, Beaver	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sciurus spp., Squirrel species	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Marmota monax, Woodchuck	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sylvilagus floridanus, Cottontail rabbit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Scalopus aquaticus, Common mole	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeterminate rodent fragments	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeterminate mammal fragments	6	-	14	9	17	37	5	14	-	5	13	93	5	3	4
BIRDS															
Passerine spp., Perching birds	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Meleagris gallopavo, Wild turkey	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
Indeterminate bird fragments	-	-	-	-	-	-	-	-	-	-	-	7	-	-	-
REPTILES															
Terrapene carolina, Box turtle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
Turtle fragments	-	34	3	8	-	8	-	-	-	-	1	4	1	2	-
Colubridae, Non-poisonous snake	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeterminate reptile fragments	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FISHES															
Aplodinotus grunniens, Drumfish	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeterminate fish fragments	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-
TOTAL	7	35	18	19	19	45	5	14	1	5	14	113	8	5	21

Table 24. Identifiable Vertebrate Fauna From the 1997 Excavations. (continued)

	----Features---			----------Burials----------													
	96	107	108	3a	6	12	14	15	37	38	42	50	57	58	61	64	
MAMMALS																	
Cervidae, Wapiti/Deer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Odocoileus virginianus, White-tailed deer	7	-	-	-	-	-	-	-	-	-	-	-	2	-	-	2	
Mephitis mephitis, Striped skunk	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Procyon lotor, Raccoon	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ursus americanus, Black bear	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Canidae	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Canis sp.	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	
Cricetidae	-	-	-	-	-	-	2	-	-	-	-	-	-	-	4	-	
Ondatra zibethicus, Muskrat	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
Castor canadensis, Beaver	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sciurus spp., Squirrel species	-	-	-	2	-	-	1	-	-	-	-	-	3	-	-	-	
Marmota monax, Woodchuck	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sylvilagus floridanus, Cottontail rabbit	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	
Scalopus aquaticus, Common mole	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	
Indeterminate rodent fragments	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	
Indeterminate mammal fragments	-	8	48	1	-	-	2	-	-	-	1	1	76	1	-	-	
BIRDS																	
Passerine spp., Perching birds	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Meleagris gallopavo, Wild turkey	-	-	-	-	-	1	-	1	-	-	-	1	-	-	-	-	
Indeterminate bird fragments	-	-	-	-	-	1	1	-	-	-	-	-	2	-	-	-	
REPTILES																	
Terrapene carolina, Box turtle	-	-	-	1	-	-	-	-	-	-	-	-	32	-	-	-	
Turtle fragments	-	-	-	-	-	-	-	-	6	-	-	-	-	-	-	-	
Colubridae, Non-poisonous snake	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	
Indeterminate reptile fragments	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FISHES																	
Aplodinotus grunniens, Drumfish	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeterminate fish fragments	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	
TOTAL	7	8	48	5	1	4	10	1	6	1	1	2	116	1	4	2	

Table 24. Identifiable Vertebrate Fauna From the 1997 Excavations. (continued)

	Burials													
	66	71	72	75	76	78	79	83	85	Total	MNI	Burn	Cut	Mod
MAMMALS														
Cervidae, Wapiti/Deer	1	-	-	-	-	-	-	-	-	5	1	-	-	-
Odocoileus virginianus, White-tailed deer	16	-	-	-	-	1	-	-	-	195	5	2	8	1
Mephitis mephitis, Striped skunk	11	-	-	-	-	-	-	-	-	11	2	-	-	-
Procyon lotor, Raccoon	-	-	-	-	-	-	-	-	-	1	1	-	-	-
Ursus americanus, Black bear	-	-	-	-	-	-	-	-	-	2	1	2	-	-
Canidae	-	-	-	-	-	-	-	-	-	1	1	-	-	-
Canis sp.	-	1	-	-	-	-	-	-	-	5	1	-	-	-
Cricetidae	-	1	-	-	-	-	-	2	-	13	3	-	-	-
Ondatra zibethicus, Muskrat	-	-	-	-	-	-	-	-	-	1	1	-	-	-
Castor canadensis, Beaver	-	-	-	-	-	-	-	-	-	1	1	-	-	-
Sciurus spp., Squirrel species	-	-	-	-	-	-	-	-	-	17	3	-	-	-
Marmota monax, Woodchuck	-	-	-	-	-	-	1	-	-	1	1	-	-	-
Sylvilagus floridanus, Cottontail rabbit	-	-	-	-	1	4	-	-	-	8	1	-	-	-
Scalopus aquaticus, Common mole	-	-	-	-	-	-	-	-	-	1	1	-	-	-
Indeterminate rodent fragments	-	-	-	-	-	-	-	-	-	2	-	-	-	-
Indeterminate mammal fragments	11	1	2	-	-	35	-	-	-	981	-	97	-	1
BIRDS														
Passerine spp., Perching birds	-	-	-	-	-	-	-	-	-	1	1	-	-	-
Meleagris gallopavo, Wild turkey	1	-	-	-	-	-	-	-	-	11	2	2	2	-
Indeterminate bird fragments	-	-	-	2	-	1	-	-	18	49	-	-	-	-
REPTILES														
Terrapene carolina, Box turtle	-	-	-	-	-	-	-	-	-	74	3	-	-	-
Turtle fragments	-	1	-	-	-	-	-	-	-	238	-	27	-	-
Colubridae, Non-poisonous snake	3	-	-	-	-	-	-	-	-	10	1	-	-	-
Indeterminate reptile fragments	-	-	-	-	-	-	-	-	-	2	-	2	-	-
FISHES														
Aplodinotus grunniens, Drumfish	-	-	-	-	-	-	-	-	-	4	1	-	-	-
Indeterminate fish fragments	-	-	-	-	-	-	-	-	-	26	-	-	-	-
TOTAL	43	4	2	2	1	41	1	2	18	1659	31	135	11	2

One modified bone element from 40Wm210 is a deer astragalus (cube) from Structure 2. The cube-like appearance is the result of extensive grinding and polishing of the (previously rounded) lateral edges. Exposure to heat (along with the polished surfaces) has produced a glossy finish on the artifact's exterior surface. The heat contact, however, is most likely due to the burning of Structure 2 rather than intentional firing.

A second worked specimen, recovered from Feature 16, consists of a thin (2.53 mm), rectangular (58.89 mm by 18.7 mm) piece of bone with a heavily ground and polished exterior surface (Figure 104). This item was probably cut from a (large) mammal long bone. A variety of possibilities regarding the use of this object include weaving shuttle, net spacer, and pottery smoothing tool.

Discussion

Previous archaeological research has established that Middle Cumberland Mississippian natives obtained their potentially edible animal species from three primary habitats: (1) forest edge or open forest; (2) rugged forested uplands; and (3) aquatic/riparian habitat. Animals from the forest edge and open forested areas include wapiti, white-tailed deer, fox squirrel, woodchuck, cottontail rabbit, and wild turkey. These forest edge/open forest species consistently supply the highest meat yield percentages from study area Mississippian sites (Jones 2001; Moore and Breitburg 1998; Moore and Smith 2001; Walling et al. 2000). The more rugged forested uplands and denser wooded areas are another important source of animal resources. Rugged

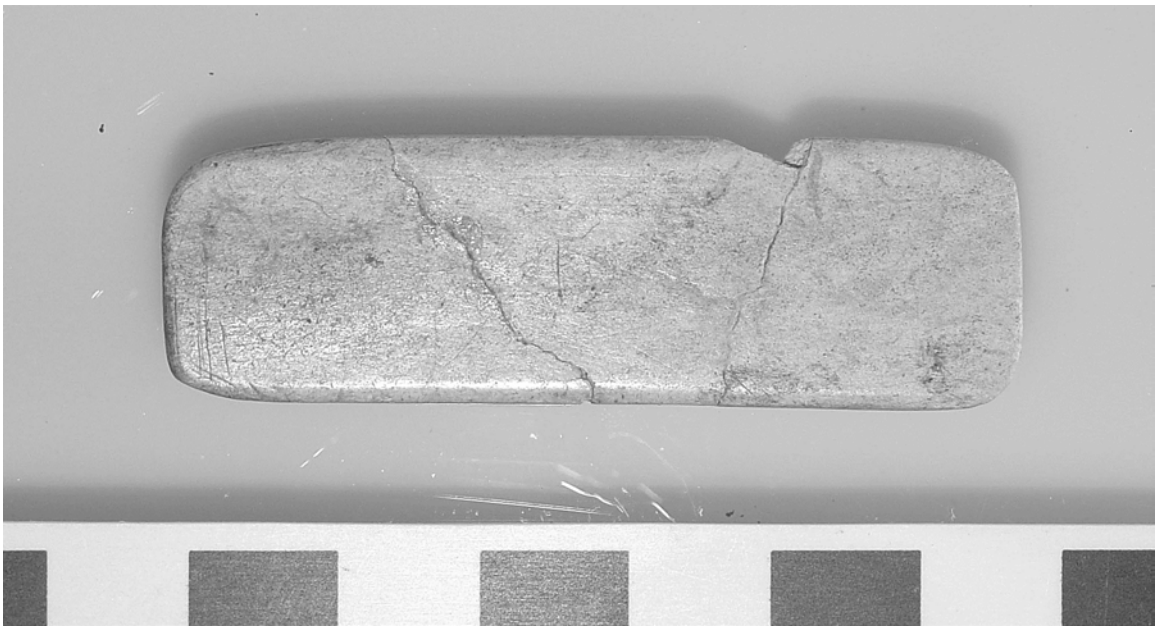

Figure 104. Ground and polished bone artifact from Feature 16.

forested uplands/denser woods species (such as cougar, bobcat, black bear, gray squirrel, opossum, passenger pigeon, box turtle, and poisonous and nonpoisonous snake species) represent a smaller, yet still significant, source of edible meat. Aquatic/riparian habitat species generally account for a very small percentage of the total meat yield from any one site. However, in contrast to their low meat yield, the types of species obtained from these particular habitats are quite diverse. Recovered aquatic/riparian animals include beaver, muskrat, softshell turtle, map/painted turtle, snapping turtle, and such fish as drum, catfish, redhorse, gar, sucker, and bowfin.

New insights into Middle Cumberland Mississippian subsistence practices are not forthcoming from the Brentwood Library faunal sample, in part due to the substantial percentage of remains (nearly 80%) that could not be identified to a specific species. Also, the inconsistent manner in which habitation features were addressed during the burial removal undoubtedly impacted the number and range of potential identified species. These statements aside, however, the 40Wm210 analysis results do lend support for a Middle Cumberland Mississippian subsistence pattern previously summarized as

> …an ecologically distinctive subsistence pattern…one that is built around the use of white-tailed deer, presence of wapiti and bear, and some dependence on small mammal and bird (especially turkey) resources.
>
> …in the Central Basin of the Cumberland River where enough forest edge environment existed to support a relatively abundant deer population and also provided an excellent habitat for wapiti and bear populations in both dense forest and forest openings…Mississippian populations in the mid-latitudes of the eastern woodlands were oriented toward an animal exploitation pattern of large game mammals and turkey. (Breitburg 1998:161)

White-tailed deer, black bear, and turkey are represented in the Brentwood Library sample, and obviously comprise the primary meat sources. The presence of such smaller mammals as raccoon, muskrat, beaver, woodchuck, and cottontail rabbit serve to compliment the large game animals. Identified species of reptiles and fish are minimally represented in the 40Wm210 sample.

X. FLORAL REMAINS

Andrea Bishop and Michael C. Moore

Carbonized plant remains were retrieved from a variety of Brentwood Library feature contexts, including structure floors and hearths, refuse-filled pits, and postholes. These remains were generally collected as bulk soil samples from features with a high potential for charred botanical residue. This somewhat biased collection strategy was necessary due to the priority placed on mapping the site, as well as other project limitations. The resulting floral assemblage was a diverse array of wood charcoal, cane, nutshell, seeds, fruit, and maize.

Analysis Methodology

Most of the botanical remains were recovered through fine waterscreen and flotation of collected soil samples. The laboratory analysis involved sifting the material from the light fraction in each sample through three standard geologic screens to divide by size (2.0 mm, 1.0 mm, and 250 microns) for easier sorting. The contents from each screen were examined under a magnification of 7x to 30x. Only the material retained in the 2.0 mm screen was entirely sorted and quantified by weight and number (fragment count). The material remaining in the two smaller size screens was not sorted but examined for seeds and rind.

All analyzed remains have been listed by category and scientific and common names (Table 25). For wood charcoal, a maximum of 30 fragments was randomly chosen from each sample for identification to species or genus. Just over one-half of the analyzed samples (n=43) have individual wood charcoal fragment counts. The remaining samples have a “p” notation documenting the presence of a particular wood species. This “p” notation was used for the other botanical categories as well.

The recovered maize consisted of fragments or segments of cobs including cupules and individual kernels that were detached from the cobs (Table 26). Cupules are defined as the parts of a cob that hold the kernels. The senior author defined a cob fragment as two or more cupules attached together, and a cob segment as a piece of a cob with a complete diameter. The actual number of rows on a cob can be counted on a cob segment. However, only the approximate number of rows can be determined from cob fragments and individual cupules by measuring the angle from 360 degrees.

The maize kernels in the samples were loose and not attached to the cobs. The number of whole kernels was counted in each sample and a percentage (25%-100%) of the number was sampled for measuring the dimensions (width and thickness) on Table 26.

The number of cupule fragments was counted only if there were less than 100. Whole cupules were counted in each sample and a percentage (25%-100%) of the number was sampled for measuring the dimensions (width, length, glume width, and row number) on Table 26.

Table 25. Identified Floral Species from the 1997 Excavations.

Species	Features																					
	6	8	9	10	11	14	15	16	18B	18E	19	20	21	22	23	24	25	26	27	36	37	39
WOOD/CANE CHARCOAL																						
Arundinaria sp., Cane	20	-	-	-	-	-	p	p	-	-	-	-	-	-	-	p*	p	p	-	-	-	-
Acer sp., Maple	-	-	-	p	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carya sp., Hickory	-	-	-	p	-	-	-	p	-	-	-	p	12	p	-	p	-	p	p	-	-	-
Diospyros virgiana, Persimmon	-	-	-	-	-	-	p	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fraxinus sp., Ash	-	-	-	p	p	-	p	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gleditsia triacanthos, Honey Locust	-	-	p	-	-	-	p	-	-	-	-	-	-	-	-	p	-	-	-	-	p	-
Juglans sp., Walnut/Butternut	-	-	-	p	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Juniperus virginiana, Red Cedar	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Liquidambar styraciflua, Sweetgum	-	-	-	-	-	-	-	-	-	-	-	p	-	-	-	-	-	-	-	-	-	-
Liriodendron tulipifera, Yellow Poplar	-	-	-	-	p	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Platanus occidentalis, Sycamore	-	-	-	-	-	-	-	p	-	-	p	p	-	-	-	-	-	-	-	-	-	-
Prunus serotina, Black Cherry	10	-	-	p	-	-	p	p	-	-	p	p	2	-	-	-	p	p	-	p	-	p
Quercus sp., Oak	-	p	-	p	-	-	p	p	-	-	p	-	15	p	p	p	-	p	p	-	p	-
Robinia pseudoacacia, Black Locust	-	-	-	p	-	6	p	-	-	p	p	-	1	-	-	p	p	p	p	-	-	-
Sassafras albidum, Sassafras	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ulmus sp., Elm	-	-	-	p	-	-	-	-	-	-	-	-	-	-	-	p	-	p	-	-	-	-
Vitis sp., Grapevine	-	-	-	-	-	-	-	p	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bark	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NUTSHELL																						
Carya sp., Hickory	-	-	-	-	-	-	p	-	1f	-	-	-	-	-	-	-	-	-	-	-	-	-
Juglans nigra, Black Walnut	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	p	-	-	-	-	-
Juglans cinerea, Butternut	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quercus sp., Acorn	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEED/FRUIT																						
Ambrosia sp., Ragweed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	p	-	-	-	-	-
Diospyros virgiana, Persimmon	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gledtisia triacanthos, Honey Locust	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	p	-	-	-	-	-
Phaseolus sp., Cultivated Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phytolacca americana, Poke Weed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	p	-	-	-	-	-
Prunus sp., Plum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vitis sp., Grape	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	p	-	-	-	-	-
MAIZE																						
cob segments	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cob fragments	7	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	14	-	-	-	-	-
kernels	2	-	-	p	-	-	p	-	-	-	-	-	26	-	-	-	2	-	-	-	-	-
cupules	-	-	-	-	-	-	p	-	-	-	-	-	18	-	-	-	91	-	-	1	-	-

Table 25. Identified Floral Species from the 1997 Excavations. (continued)

Species	Features																				
	43	53	56	58	59	60	62	63	64	66	72	73	74	75	81	82	86	94	95	107	108
WOOD/CANE CHARCOAL																					
Arundinaria sp., Cane	-	-	-	p	-	p	20	-	-	p	p	-	-	-	-	p	-	-	-	-	-
Acer sp., Maple	-	-	-	-	-	-	-	-	-	-	-	-	-	p	-	-	-	-	-	-	-
Carya sp., Hickory	-	p	p	p	-	-	9	p	-	-	-	-	-	p	-	-	-	-	-	p	-
Diospyros virgiana, Persimmon	-	-	-	-	-	p	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fraxinus sp., Ash	-	-	-	-	p	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gleditsia triacanthos, Honey Locust	-	-	-	p	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Juglans sp., Walnut/Butternut	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Juniperus virginiana, Red Cedar	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Liquidambar styraciflua, Sweetgum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Liriodendron tulipifera, Yellow Poplar	3	-	-	-	p	-	-	-	-	-	-	-	-	-	-	p	-	-	-	-	-
Platanus occidentalis, Sycamore	-	-	-	-	p	-	-	p	-	-	-	-	-	p	-	-	-	-	-	-	-
Prunus serotina, Black Cherry	-	p	p	p	p	p	-	p	p	-	-	3	p	p	p	p	-	p	p	-	p
Quercus sp., Oak	1	-	p	p	p	-	-	-	-	-	-	10	-	-	p	p	p	-	-	-	-
Robinia pseudoacacia, Black Locust	-	-	-	p	-	p	1	-	-	-	p	-	-	p	-	p	-	-	-	-	-
Sassafras albidum, Sassafras	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ulmus sp., Elm	-	-	p	-	-	p	-	-	-	-	p	-	-	-	-	-	-	-	-	-	-
Vitis sp., Grapevine	-	-	-	-	-	-	-	p	-	-	-	-	-	-	-	-	-	-	-	-	-
Bark	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NUTSHELL																					
Carya sp., Hickory	-	-	-	-	-	p	8f	-	p	-	-	-	-	-	-	p	-	-	-	-	-
Juglans nigra, Black Walnut	-	-	-	-	-	p	3f	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Juglans cinerea, Butternut	-	-	-	-	-	p	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quercus sp., Acorn	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SEED/FRUIT																					
Ambrosia sp., Ragweed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diospyros virgiana, Persimmon	-	-	-	-	-	-	-	-	1w	-	-	-	-	-	-	-	-	-	-	-	-
Gledtisia triacanthos, Honey Locust	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phaseolus sp., Cultivated Bean	-	-	-	-	-	p	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phytolacca americana, Poke Weed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prunus sp., Plum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1w	-	-	-	-	-
Vitis sp., Grape	-	-	-	-	-	-	1w	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAIZE																					
cob segments	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cob fragments	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
kernels	-	-	1	-	-	9	4	-	p	-	58	-	-	2	-	4	-	-	-	-	-
cupules	10	-	-	-	-	8	5	-	-	-	20	-	-	1	-	-	-	-	-	-	-

Table 25. Identified Floral Species from the 1997 Excavations. (continued)

Species	Features																				
	112	148	150	279	402	403	404	406	411	501	502	519	530	531	538	555	598	619	620	637	651
WOOD/CANE CHARCOAL																					
Arundinaria sp., Cane	5	15	15	-	-	1	-	-	-	-	10	-	-	5	6	3	9	-	5	14	5
Acer sp., Maple	-	-	-	-	-	-	-	-	-	-	-	-	-	4	2	-	-	-	-	-	1
Carya sp., Hickory	2	3	3	-	p	-	-	p	p	p	-	-	-	1	-	2	-	-	4	-	9
Diospyros virgiana, Persimmon	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-
Fraxinus sp., Ash	1	-	-	-	-	-	-	p	-	-	-	-	-	-	-	2	11	-	3	-	-
Gleditsia triacanthos, Honey Locust	-	1	2	p	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
Juglans sp., Walnut/Butternut	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Juniperus virginiana, Red Cedar	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Liquidambar styraciflua, Sweetgum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Liriodendron tulipifera, Yellow Poplar	-	-	-	-	-	-	-	p	-	-	-	-	-	4	-	-	-	-	2	-	-
Platanus occidentalis, Sycamore	-	-	-	-	-	-	-	-	-	p	-	-	-	-	1	6	-	-	-	-	-
Prunus serotina, Black Cherry	4	1	10	-	p	-	1	-	p	-	4	5	-	-	3	-	-	-	-	-	-
Quercus sp., Oak	17	4	-	-	p	-	-	-	-	-	-	-	-	-	3	2	-	-	14	-	15
Robinia pseudoacacia, Black Locust	-	3	-	-	-	1	-	p	p	p	15	-	30	1	5	7	9	30	-	6	-
Sassafras albidum, Sassafras	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ulmus sp., Elm	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-
Vitis sp., Grapevine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bark	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-
NUTSHELL																					
Carya sp., Hickory	1f	5f	35f	-	p	-	-	-	-	-	3f	-	-	-	-	11f	-	-	-	-	-
Juglans nigra, Black Walnut	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Juglans cinerea, Butternut	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quercus sp., Acorn	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1f	-	-	-	-	-
SEED/FRUIT																					
Ambrosia sp., Ragweed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diospyros virgiana, Persimmon	-	-	2w,14f	-	-	-	1f	-	-	-	-	-	2w	-	-	-	-	-	-	-	-
Gledtisia triacanthos, Honey Locust	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phaseolus sp., Cultivated Bean	-	-	-	-	-	-	-	1f	-	-	-	-	-	-	-	-	-	-	-	1f	-
Phytolacca americana, Poke Weed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prunus sp., Plum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vitis sp., Grape	-	1w	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAIZE																					
cob segments	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cob fragments	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
kernels	1	-	42	-	2	1	-	p	2	-	1	-	3	-	3	5	3	4	-	15	-
cupules	-	-	-	-	-	-	-	-	-	-	3	-	-	-	8	10	1	2	16	-	-

Table 25. Identified Floral Species from the 1997 Excavations. (continued)

Species	Features											Struct 2 Timber Gen Area	Struct 2 Timber NE Area	Struct 2 Timber On Floor	Struct 2 Timber On Floor
	1081a	1081b	1081c	1699/ 1700	1914	2059	2200	2254	2269	2482	2567				
WOOD/CANE CHARCOAL															
Arundinaria sp., Cane	-	-	-	3	-	-	-	3	5	-	-	-	15	-	-
Acer sp., Maple	-	-	-	-	1	-	-	-	-	30	-	-	-	-	-
Carya sp., Hickory	-	1	-	9	-	15	30	16	-	-	-	-	-	-	-
Diospyros virgiana, Persimmon	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fraxinus sp., Ash	-	-	-	-	-	-	-	-	7	-	-	-	-	-	-
Gleditsia triacanthos, Honey Locust	-	-	-	15	6	-	-	-	15	-	-	-	-	-	-
Juglans sp., Walnut/Butternut	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Juniperus virginiana, Red Cedar	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Liquidambar styraciflua, Sweetgum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Liriodendron tulipifera, Yellow Poplar	-	-	-	-	-	-	-	-	-	-	6	-	-	-	-
Platanus occidentalis, Sycamore	-	-	-	-	17	-	-	-	-	-	-	-	-	-	-
Prunus serotina, Black Cherry	-	-	-	-	-	15	-	5	-	-	-	-	-	-	-
Quercus sp., Oak	3	-	2	2	1	-	-	3	3	-	5	-	-	-	-
Robinia pseudoacacia, Black Locust	15	-	5	-	-	-	-	3	-	-	19	25	-	30	30
Sassafras albidum, Sassafras	-	-	-	-	-	-	-	-	-	-	-	5	15	-	-
Ulmus sp., Elm	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Vitis sp., Grapevine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bark	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NUTSHELL															
Carya sp., Hickory	-	-	-	3f	-	-	-	4f	1f	-	-	-	4f	-	-
Juglans nigra, Black Walnut	-	-	-	1f	-	-	-	-	-	-	-	-	-	-	-
Juglans cinerea, Butternut	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Quercus sp., Acorn	-	-	-	-	-	-	-	7f	-	-	-	-	-	-	-
SEED/FRUIT															
Ambrosia sp., Ragweed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diospyros virgiana, Persimmon	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gledtisia triacanthos, Honey Locust	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phaseolus sp., Cultivated Bean	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phytolacca americana, Poke Weed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Prunus sp., Plum	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vitis sp., Grape	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAIZE															
cob segments	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cob fragments	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
kernels	11	68	35	107+	-	2	-	1	1	-	-	-	-	-	-
cupules	-	-	-	4	-	-	-	2	-	-	-	-	-	-	-

Table 25. Identified Floral Species from the 1997 Excavations. (continued)

Species	Struct 2 Fill Over Floor	Struct 3 Hearth Layer	Struct 8 Post	Struct 12 Midden Fill	Struct 51 Fill	Struct 54 Fill
WOOD/CANE CHARCOAL						
Arundinaria sp., Cane	-	-	-	-	10	5
Acer sp., Maple	-	-	-	-	-	5
Carya sp., Hickory	-	1	-	5	-	-
Diospyros virgiana, Persimmon	-	-	-	-	-	-
Fraxinus sp., Ash	-	-	30	-	-	20
Gleditsia triacanthos, Honey Locust	-	-	-	-	15	-
Juglans sp., Walnut/Butternut	-	-	-	-	-	-
Juniperus virginiana, Red Cedar	-	-	-	-	-	-
Liquidambar styraciflua, Sweetgum	-	-	-	-	-	-
Liriodendron tulipifera, Yellow Poplar	-	-	-	-	-	-
Platanus occidentalis, Sycamore	-	5	-	-	-	-
Prunus serotina, Black Cherry	-	-	-	-	5	-
Quercus sp., Oak	-	-	-	1	-	-
Robinia pseudoacacia, Black Locust	-	-	-	-	-	-
Sassafras albidum, Sassafras	-	-	-	-	-	-
Ulmus sp., Elm	5	-	-	-	-	-
Vitis sp., Grapevine	-	-	-	-	-	-
Bark	-	-	-	-	-	-
NUTSHELL						
Carya sp., Hickory	-	-	-	-	-	-
Juglans nigra, Black Walnut	-	-	-	-	-	-
Juglans cinerea, Butternut	-	-	-	-	-	-
Quercus sp., Acorn	-	-	-	-	-	-
SEED/FRUIT						
Ambrosia sp., Ragweed						
Diospyros virgiana, Persimmon	-	-	-	5f	-	-
Gledtisia triacanthos, Honey Locust	-	-	-	-	-	-
Phaseolus sp., Cultivated Bean	-	-	-	-	-	-
Phytolacca americana, Poke Weed	-	-	-	-	-	-
Prunus sp., Plum	-	-	-	-	-	-
Vitis sp., Grape	-	-	-	-	-	-
MAIZE						
cob segments	-	-	-	-	-	-
cob fragments	-	-	-	-	-	-
kernels	-	-	-	-	-	-
cupules	-	-	-	-	-	-

p = present but not counted.
* = thatch.
a = Structure 12 hearth top layer; b = Structure 12 hearth, fill between layers; c = Structure 12 hearth, bottom layer.

Table 26. Measurements of Analyzed Maize from the 1997 Excavations.*

Provenance	Sample	Cupule Width	Cupule Length	Glume Width	Kernel Width	Kernel Thick	Cob Dia Max	Cob Dia Min	Cob Length	Row Number
Feature 6	Cob segment	5.5-7.7	2.0-2.2	2.6-4.0	-	-	2.0	0.8	4.2	10
	Cob segment	6.5-7.4	2.0-2.2	3.0-3.5	-	-	3.5	2.0	4.3	10
	Cob segment	6.3-7.5	na	na	-	-	na	na	3.3	10
	Cob segment	4.0-5.0	2.1-2.3	2.5-2.8	-	-	4.6	3.1	2.5	12
	Cob fragment	8.8	3.2	5.2-5.7	-	-	-	-	-	10
	Cob fragment	6.8-7.0	2.2	-	-	-	-	-	-	10
	Cob fragment	5.1-5.6	2.5	-	-	-	-	-	-	12
	Cob fragment	6.0	2.0	3.0	-	-	-	-	-	10
	Cob fragment	5.3-6.0	2.5	3.0	-	-	-	-	-	10
	Cob fragment	5.6-6.1	2.0	3.0	-	-	-	-	-	12
	Cob fragment	6.8-7.0	1.5	3.7	-	-	-	-	-	10
	Kernel	-	-	-	7.5	4.5	-	-	-	-
	Kernel	-	-	-	7.0	4.5	-	-	-	-
Feature 20	Cob fragment	7.0-7.5	3.0	4.0	-	-	-	-	-	10
	Cob fragment	5.0-5.5	2.7	2.5	-	-	-	-	-	8
Feature 21	Kernel	-	-	-	7.9	5.2	-	-	-	-
	Kernel	-	-	-	9.3	5.3	-	-	-	-
	Kernel	-	-	-	8.7	3.6	-	-	-	-
	Kernel	-	-	-	9.0	5.7	-	-	-	-
	Kernel	-	-	-	7.0	4.2	-	-	-	-
	Kernel	-	-	-	8.4	2.8	-	-	-	-
	Kernel	-	-	-	7.5	3.5	-	-	-	-
	Kernel	-	-	-	8.6	4.0	-	-	-	-
	Kernel	-	-	-	9.0	3.9	-	-	-	-
	Kernel	-	-	-	6.1	3.8	-	-	-	-
	Kernel	-	-	-	9.2	4.3	-	-	-	-
	Kernel	-	-	-	7.0	4.0	-	-	-	-
	Kernel	-	-	-	6.8	3.8	-	-	-	-
	Cupule	6.3	1.8	-	-	-	-	-	-	10
	Cupule	6.3	1.5	-	-	-	-	-	-	10
	Cupule	6.9	1.5	-	-	-	-	-	-	10
	Cupule	4.4	1.8	-	-	-	-	-	-	10
	Cupule	5.5	1.0	-	-	-	-	-	-	10
	Cupule	5.5	2.0	-	-	-	-	-	-	10
	Cupule	6.5	1.0	-	-	-	-	-	-	10
	Cupule	5.5	1.5	-	-	-	-	-	-	10
	Cupule	7.0	2.0	-	-	-	-	-	-	10
Feature 25	Cob fragment	5.5	2.0	3.5	-	-	-	-	-	12
	Cob fragment	5.8	1.8	-	-	-	-	-	-	12
	Cob fragment	6.0	2.5	2.5	-	-	-	-	-	10
	Cob fragment	5.0	2.0	-	-	-	-	-	-	12
	Cob fragment	6.2	1.5	3.0	-	-	-	-	-	12
	Cob fragment	4.5	2.2	-	-	-	-	-	-	12
	Cob fragment	7.0	2.5	4.5	-	-	-	-	-	10
	Cob fragment	5.5	2.5	2.2	-	-	-	-	-	12
	Cob fragment	8.4	2.5	-	-	-	-	-	-	10
	Cob fragment	6.5	2.5	4.0	-	-	-	-	-	10
	Cob fragment	6.4	2.2	4.2	-	-	-	-	-	12
	Cob fragment	6.0	2.0	3.5	-	-	-	-	-	10
	Cob fragment	5.0	2.0	3.0	-	-	-	-	-	10
	Cob fragment	5.0	2.5	3.0	-	-	-	-	-	12
	Cupule	6.8	1.0	-	-	-	-	-	-	12
	Cupule	7.5	2.5	-	-	-	-	-	-	12
	Cupule	8.0	1.5	-	-	-	-	-	-	12
	Cupule	7.2	1.8	-	-	-	-	-	-	10
	Cupule	6.0	1.5	-	-	-	-	-	-	10
	Cupule	6.5	1.5	-	-	-	-	-	-	10
	Cupule	9.5	2.3	4.5	-	-	-	-	-	10
	Cupule	6.5	1.8	-	-	-	-	-	-	10
	Cupule	6.5	1.7	-	-	-	-	-	-	10

Table 26. Measurements of Analyzed Maize from the 1997 Excavations.* (continued)

Provenance	Sample	Cupule Width	Cupule Length	Glume Width	Kernel Width	Kernel Thick	Cob Dia Max	Cob Dia Min	Cob Length	Row Number
	Cupule	6.6	1.8	-	-	-	-	-	-	12
	Cupule	9.8	1.5	-	-	-	-	-	-	10
Feature 43	Cupule	4.0	1.5	-	-	-	-	-	-	12
	Cupule	3.8	1.3	-	-	-	-	-	-	12
	Cupule	4.0	1.5	-	-	-	-	-	-	12
	Cupule	4.5	1.2	-	-	-	-	-	-	12
	Cupule	4.2	1.2	-	-	-	-	-	-	12
	Cupule	4.8	1.3	-	-	-	-	-	-	12
	Cupule	4.4	1.4	-	-	-	-	-	-	12
	Cupule	4.8	1.5	-	-	-	-	-	-	12
	Cupule	4.6	1.0	-	-	-	-	-	-	12
	Cupule	4.6	1.5	-	-	-	-	-	-	12
Feature 60	Kernel	-	-	-	7.1	3.4	-	-	-	-
	Kernel	-	-	-	7.7	2.1	-	-	-	-
	Kernel	-	-	-	8.3	5.5	-	-	-	-
	Kernel	-	-	-	8.8	3.4	-	-	-	-
	Kernel	-	-	-	8.9	5.2	-	-	-	-
	Kernel	-	-	-	9.0	5.2	-	-	-	-
	Kernel	-	-	-	8.0	3.3	-	-	-	-
	Kernel	-	-	-	7.5	4.1	-	-	-	-
	Kernel	-	-	-	6.8	4.5	-	-	-	-
	Cupule	7.0	2.0	-	-	-	-	-	-	10
	Cupule	6.6	1.5	-	-	-	-	-	-	8
	Cupule	7.8	1.5	-	-	-	-	-	-	8
	Cupule	8.0	1.5	-	-	-	-	-	-	10
	Cupule	6.5	1.5	-	-	-	-	-	-	10
	Cupule	5.8	1.5	-	-	-	-	-	-	10
	Cupule	6.5	2.0	-	-	-	-	-	-	10
	Cupule	6.5	2.0	-	-	-	-	-	-	12
Feature 62	Cupule	6.1	1.5	-	-	-	-	-	-	10
	Cupule	6.2	1.5	-	-	-	-	-	-	10
	Cupule	6.4	1.0	-	-	-	-	-	-	10
	Cupule	5.8	1.0	-	-	-	-	-	-	10
	Cupule	6.1	1.5	-	-	-	-	-	-	10
	Kernel	-	-	-	8.3	4.2	-	-	-	-
	Kernel	-	-	-	7.0	4.9	-	-	-	-
	Kernel	-	-	-	8.0	5.7	-	-	-	-
	Kernel	-	-	-	5.2	3.9	-	-	-	-
Feature 72	Cupule	8.8	1.5	-	-	-	-	-	-	8
	Cupule	6.7	2.0	-	-	-	-	-	-	12
	Cupule	6.7	2.5	-	-	-	-	-	-	12
	Cupule	5.1	2.5	-	-	-	-	-	-	12
	Cupule	7.5	2.5	-	-	-	-	-	-	10
	Cupule	5.5	2.0	-	-	-	-	-	-	10
	Cupule	7.9	2.5	-	-	-	-	-	-	10
	Cupule	8.0	2.0	-	-	-	-	-	-	10
	Cupule	4.8	2.8	-	-	-	-	-	-	12
	Cupule	7.5	2.0	-	-	-	-	-	-	8
	Kernel	-	-	-	9.0	3.0	-	-	-	-
	Kernel	-	-	-	8.5	3.8	-	-	-	-
	Kernel	-	-	-	8.5	3.5	-	-	-	-
	Kernel	-	-	-	10.0	3.8	-	-	-	-
	Kernel	-	-	-	7.7	3.5	-	-	-	-
	Kernel	-	-	-	8.0	4.0	-	-	-	-
	Kernel	-	-	-	11.0	5.0	-	-	-	-
	Kernel	-	-	-	10.3	3.0	-	-	-	-
	Kernel	-	-	-	7.0	5.5	-	-	-	-
	Kernel	-	-	-	9.0	3.7	-	-	-	-
	Kernel	-	-	-	7.5	4.5	-	-	-	-

Table 26. Measurements of Analyzed Maize from the 1997 Excavations.* (continued)

Provenance	Sample	Cupule Width	Cupule Length	Glume Width	Kernel Width	Kernel Thick	Cob Dia Max	Cob Dia Min	Cob Length	Row Number
Feature 72	Kernel	-	-	-	8.8	4.5	-	-	-	-
(continued)	Kernel	-	-	-	8.8	4.5	-	-	-	-
	Kernel	-	-	-	8.0	4.4	-	-	-	-
	Kernel	-	-	-	8.2	4.0	-	-	-	-
	Kernel	-	-	-	9.0	3.2	-	-	-	-
	Kernel	-	-	-	7.8	4.5	-	-	-	-
	Kernel	-	-	-	9.5	4.5	-	-	-	-
	Kernel	-	-	-	7.1	3.8	-	-	-	-
	Kernel	-	-	-	9.8	4.8	-	-	-	-
	Kernel	-	-	-	7.5	3.5	-	-	-	-
	Kernel	-	-	-	8.0	4.0	-	-	-	-
	Kernel	-	-	-	7.2	4.5	-	-	-	-
	Kernel	-	-	-	7.5	4.5	-	-	-	-
	Kernel	-	-	-	9.5	5.0	-	-	-	-
	Kernel	-	-	-	10.0	4.5	-	-	-	-
	Kernel	-	-	-	8.8	4.5	-	-	-	-
	Kernel	-	-	-	9.0	3.5	-	-	-	-
Feature 148	Cob fragment	4.0	1.0	2.2	-	-	-	-	-	12
	Cob fragment	4.9	1.0	2.5	-	-	-	-	-	12
	Cob fragment	4.4	2.0	2.0	-	-	-	-	-	12
	Cob fragment	4.5	2.0	2.3	-	-	-	-	-	12
	Cob fragment	4.7	2.0	2.3	-	-	-	-	-	12
Feature 150	Cupule	5.9	1.0	-	-	-	-	-	-	10
	Cupule	5.9	1.0	-	-	-	-	-	-	10
	Cupule	6.0	1.0	-	-	-	-	-	-	10
	Cupule	6.0	1.0	-	-	-	-	-	-	10
Feature 538	Cupule	7.7	1.5	-	-	-	-	-	-	8
	Cupule	5.5	1.0	2.5	-	-	-	-	-	10
Feature 555	Cob fragment	6.8	1.0	3.7	-	-	-	-	-	-
Feature 620	Cupule	6.8	1.5	-	-	-	-	-	-	10
	Cupule	6.2	1.0	-	-	-	-	-	-	10
Feature 637	Kernel	-	-	-	8.0	4.5	-	-	-	-
Feature 1081	Kernel	-	-	-	7.5	4.8	-	-	-	-
	Kernel	-	-	-	8.0	5.0	-	-	-	-
	Kernel	-	-	-	8.7	5.1	-	-	-	-
	Kernel	-	-	-	8.5	5.1	-	-	-	-
	Kernel	-	-	-	7.0	4.5	-	-	-	-
	Kernel	-	-	-	7.9	4.9	-	-	-	-
	Kernel	-	-	-	6.0	3.5	-	-	-	-
	Kernel	-	-	-	6.2	3.5	-	-	-	-
	Kernel	-	-	-	7.5	4.0	-	-	-	-
	Kernel	-	-	-	7.5	4.5	-	-	-	-
	Kernel	-	-	-	6.5	4.7	-	-	-	-
Feature 1699/	Kernel	-	-	-	8.0	4.5	-	-	-	-
1700	Kernel	-	-	-	7.7	4.9	-	-	-	-
	Kernel	-	-	-	7.2	5.7	-	-	-	-
	Kernel	-	-	-	7.8	4.2	-	-	-	-
	Kernel	-	-	-	6.0	5.0	-	-	-	-
	Kernel	-	-	-	5.5	5.2	-	-	-	-
	Kernel	-	-	-	7.7	3.7	-	-	-	-

* all measurements except cob categories in mm. Cob categories in cm.

For the cob segments and fragments, the cupule measurement was taken from the smallest and largest size cupule and the average size is given in Table 26. Only one cupule was measured if all of the cupules were the same width on a segment or fragment.

Analysis Results

Wood Charcoal and Cane

The charred wood analysis identified fifteen distinct tree species (see Table 25). Among the recognized bottomland species were maple, persimmon, ash, honey locust, sycamore, sassafras, and elm. Upland trees included such species as hickory, black cherry, oak, and black locust. Such diversity indicates the 40Wm210 site residents had utilized the adjacent bottomland forest as well as nearby upland habitats for firewood, construction materials, and other basic needs.

Black locust has been previously recognized as a valued construction material (Moore and Smith 2001). This finding was affirmed by the use of black locust posts in Structures 3, 4, and 6 (Features 14, 530, and 619). Several charred timbers recovered from the floor of Structure 2 were black locust as well. In addition to these results, one post sample from Structure 8 was identified as ash.

Thirteen residential structure postholes (Features 148, 150, 501, 502, 531, 538, 555, 598, 620, 637, 2254, 2269, and 2567) contained multiple (as many as six) species of wood charcoal. Maple, hickory, persimmon, ash, honey locust, yellow poplar, sycamore, black cherry, oak, black locust, and elm comprise the identified species. Black locust was the most prolific species as it was recognized in ten samples, followed by hickory (seven) and oak (seven). Unfortunately, the palisade (Feature 279) and bastion (Features 402, 403, 404, and 406) samples yielded similar mixed or inconclusive results.

Nine structure hearths (Features 112, 519, 651, 1081, 1699/1700, 1914, 2059, 2200, and 2482) yielded wood charcoal. Of the fifteen tree species identified from the site, ten (maple, hickory, ash, honey locust, red cedar, sycamore, black cherry, oak, black locust, and elm) were present in the hearths. Hickory (six hearths) and oak (five hearths) may be considered the most common species. Most hearths yielded multiple (two to five) species of wood. However, two hearths produced only one species. Black cherry was found in Feature 519 (Structure 3), whereas maple was recovered from Feature 2482 (Structure 57).

Vast stands of cane can be found throughout the Middle Cumberland lowlands. Upland stands overlooking floodplain-terrace settings also occur in areas with permanent springs and seeps. Mississippian groups throughout the study area utilized cane as a key construction material. The Brentwood Library residents were no exception, as impressions of split cane were present on numerous fragments of daub (see Section XI). Charred cane was recovered from a number of site features, including eleven refuse-filled pits (Features 6, 15, 16, 24, 25, 26, 60, 62, 66, 72, and 82), three hearths (Features 112, 651, 1699/1700), and twelve structure postholes (Features 14, 148, 150, 502, 531, 538, 555, 598, 620, 637, 2254, and 2269). The (pit) Feature 24 sample yielded a specimen of thatch.

Nuts

Four species of charred nutshell were defined within the 40Wm210 assemblage (Table 25). Hickory was plentiful (Features 15, 18B, 60, 62, 64, 82, 112, 148, 150, 402, 502, 555, 1699/1700, 2254, and 2269), followed by black walnut (Features 25, 60, and 62), acorn (Features 555 and 2269) and butternut (Feature 60). The most diverse nutshell sample was recovered from Feature 60, one of nine clustered refuse-filled pits just north of Structure 19. This particular pit yielded hickory, black walnut, and butternut remains.

Wild Seeds and Fruits

A modest sample of wild seeds and fruits were recovered from the feature soil samples (Table 25). Among the identified species were persimmon, honey locust, plum, and grape. Persimmon (the most abundant species) was present in five features (including postholes from Structures 1 and 3) and midden fill from Structure 12. Three features yielded grape seeds, including a posthole from Structure 1. Honey locust and plum were each defined within a single pit feature.

Ragweed and pokeweed seeds were retrieved from the (pit) Feature 25 soil sample along with honey locust and grape. However, the ragweed and pokeweed are considered incidental (rather than intentionally gathered) due to the presence of so few seeds.

Cultigens

Maize was by far the more prolific of the two cultigens recovered from the 1997 investigations (Tables 25 and 26). Numerous features across the site contained charred cob sections, cob fragments, cupules, and kernels. Fifteen pits (Features 6, 10, 15, 20, 21, 25, 36, 43, 56, 60, 62, 64, 72, 75, and 82), twelve structure postholes (Features 148, 150, 502, 531, 538, 555, 598, 619, 620, 637, 2254, and 2269), four palisade bastion postholes (Features 402, 403, 406, and 411), and four hearths (Features 112, 1081, 1699/1700, and 2059) yielded charred maize.

The 40Wm210 maize analysis defined a mixture of eight, ten and twelve-row specimens (Table 26). Virtually the entire analyzed maize assemblage was comprised of ten and twelve-row specimens. Four features yielded a combination of ten and twelve-row specimens (Features 6, 25, 60, 72), whereas several other features were exclusively ten-row (Features 21, 62, and 150) or twelve-row (Features 43 and 148). Features 20, 60, 72, and 538 each contained eight-row specimens.

Several cultivated bean fragments were found in Features 60, 406, and 637 (Table 25). Feature 60 represents a pit feature recorded just outside the northeast corner of Structure 19, whereas Feature 637 is a posthole associated with Structure 4. These locales occur on opposite ends of the excavated site area, with Structure 19 near the southeast boundary and Structure 4 in the northern area. Feature 406 is a palisade bastion post within the southeast site area.

Beans, maize and squash have been designated as the primary crops grown by Mississippian groups within the southeastern United States. Unlike maize, however, evidence for cultivated beans (or squash) within Middle Cumberland Mississippian sites

has been generally minimal. Investigations of study area Mississippian sites prior to 1990 identified a few bean fragments in their recovered plant assemblages (Benthall 1983; Crites 1984). One exception was the recovery of 312 beans from a structure hearth at the Ganier site (Broster 1972). Recent excavations at such Mississippian period towns as Rutherford-Kizer, Kellytown, and Kelley's Battery have yielded similar sparse results (Barker 2005; Jones 2001; Moore and Smith 2001). Given these similar results, differential recovery techniques do not likely play a relevant role in the presence or (for the purposes of this discussion) absence of cultivated beans from Middle Cumberland sites. A more useful avenue of explanation appears to lie in the direction of native methods for storing, processing, and/or disposing of beans. These methods may not allow the same opportunities for beans to become charred (and therefore preserved) as that of other edible plants (maize, for example).

XI. OTHER ARTIFACTS

Michael C. Moore

This section presents several additional categories of artifacts recovered during the Brentwood Library investigations. The specific categories consist of shell, daub, and a dirt dauber nest. Each classification includes the artifact provenance, number of specimens, and a brief description.

Shell Artifacts

The excavations yielded a variety of shell items, including beads, a probable spoon, and a cut gastropod. All of the specimens were retrieved from stone-box graves containing very young children.

Beads (n=37)

Burial 68 comprised a stone-box grave with the remains of an infant wearing a shell bead necklace. The necklace included (at least) 37 barrel-type beads made from marine shell. These beads varied in size from 5.7 mm to 11.2 mm long, and 6.35 mm to 12.1 mm in diameter.

Spoon (n=1)

One shell spoon fragment was recovered with an infant in a stone-box grave (Burial 85). This artifact, made from an unidentified freshwater bivalve, was found on the individual's left chest/shoulder area.

Cut Gastropod (n=1)

A large gastropod (*Campeloma* sp.) was retrieved from the stone-box grave of a young child (Burial 75). This specimen was discovered inside a (Beckwith Incised) frog-effigy jar that had been placed near the legs of the interred individual. The gastropod's top spire had been cut away, leaving an artifact measuring 29.1 mm long and 24.6 mm wide.

Clay Artifacts

Daub (Figure 105; Table 27)

These burned clay fragments comprise pieces of the clay plaster that covered residential structure walls, and possibly other site architecture (such as the palisade wall). Split cane was the primary material impressed on the clay, with small branches, leaves, and grasses also visible. Daub, although visible across much of the site area, was generally not collected except during the course of structure or feature excavation. Table 27 lists the provenance and weight of daub retained from the 40Wm210 investigations.

Figure 105. Cane impressed daub.

Dirt Dauber Nest

One section of a dirt dauber nest, measuring 46.7 mm long and 36.6 mm wide, was found in Feature 84. The four chambers in this fragment did not contain any insect remains. This nest fragment obviously derived from one of the site structures. Unfortunately, Feature 84 was one of many contiguous refuse-filled pits recorded along the southeastern edge of the excavated area. Determining which structure this nest came from is impossible with the available information.

Table 27. Provenance and Weight of Daub Recovered from the 1997 Excavations.

Provenance	Weight (g)
General Collection	3190.5
General Collection, between Structure 5 & 9	73.5
General Collection, near Hearth 5	115.5
Structure 2, burned clay zone	84.5
Structure 3, post GU	57.5
Structure 4, post LB	143.0
Structure 4, post LW	325.0
Structure 6, post QD	204.0
Structure 54	157.0
Feature 7	118.5
Feature 10	109.5
Feature 11	180.5
Feature 12	50.0
Feature 15	317.5
Feature 18B	50.0
Feature 18E	54.0
Feature 22	14.0
Feature 23	95.5
Feature 26	174.5
Feature 27	155.5
Feature 32	1055.5
Feature 33 (N ½)	620.0
Feature 36	251.5
Feature 39	126.0
Feature 53	2214.5
Feature 55	251.0
Feature 57	276.5
Feature 58	6.5
Feature 60	160.5
Feature 62	40.5
Feature 64 (E ½)	106.5
Feature 76	68.0
Feature 91 (N ½)	19.0

XII. CULTURAL MATERIAL FROM THE 1882 JARMAN FARM INVESTIGATIONS SPONSORED BY THE PEABODY MUSEUM

Michael C. Moore and Kevin E. Smith

The Peabody Museum at Harvard sponsored two separate explorations at the Jarman Farm (Brentwood Library) site located just south of Brentwood, Tennessee. Frederic Ward Putnam, Curator of the Peabody Museum, dug at the site for nine days between May 26 and June 5, 1882. His field notes and an incomplete manuscript on the Jarman Farm work are presented in Appendices G and H, respectively.

Putnam's interest in the Jarman Farm site continued beyond his return to Harvard. He obviously encouraged George Woods to continue digging at the site when possible. Woods eventually returned to the Jarman Farm in December 1882 (see Section II), although specific details of his work are admittedly lacking. Woods opened a minimal number of graves (n=9) before foul weather (and possibly illness) forced him to stop the investigation.

Given the information obtained from the Putnam and Woods investigations, this section was written with three goals: (1) to summarize the burial information presented in the 1882 Putnam field notes; (2) to present an inventory of human skeletal remains and artifacts retrieved by the Putnam and Woods excavations; and (3) to establish a baseline collection of cultural material to compare with items recovered during the 1997 burial removal.

Human Skeletal Remains

Putnam dug 87 stone-box graves containing 110 individuals between May 26 and June 5, 1882. He excavated 39 graves (with 42 individuals) on the low hill around the Jarman house, and another 48 graves (with 68 individuals) in a garden south of the house (see Figures 4 and 5). The Peabody Museum catalog also has an entry for one grave located east of the Jarman house. Dr. Jarman excavated this grave (with a minimum of two individuals) in 1881, and donated the material to Putnam (Appendix H).

Table 28 displays a summary of Putnam's burial notes. Included within this table is basic data on the number of individuals, grave length, grave width, grave depth, head direction, burial floor type, associated grave goods, and miscellaneous comments. Putnam's notes are not uniform for each burial. The entries for graves dug on the low hill around the Jarman house tend to be more casual and informative (specifically for individual head direction, grave floor type, and location of one grave from another). Notations toward the end of the investigation are generally more abrupt and less informative.

There is virtually no written information about the field investigation conducted by George Woods. He sent whatever was uncovered back to the Peabody Museum with minimal notation. We know from the museum artifact catalog that he dug at least nine stone-box graves. The only clue for grave provenance comes from Burial 1 that was

Table 28. A Summary of Burial Information from the 1882 Putnam Notes at Jarman's Farm.

Burial Number	Putnam Burial No.	No. of Individ	Grave Length	Grave Width	Grave Depth	Head	Burial Floor	Grave Items	Comments
Low Hill Around Dr. Jarman's House									
1	1	1	2' 2"	12 in	10 in	north	earth	-	Child skeleton decayed.
2	2	1	-	-	-	west	-	4 or 5 pots, 3 discoidal stones	Child skeleton decayed; 6 in west of Gr 1.
3	3	1	-	-	-	-	-	-	Child; 4 ft to south (up hill) of Gr 2.
4	4	1	6' 3"	16 in	12 in	east	-	small pot	Well made grave; 40 ft west of Grs 1-3.
5	5	1	6' 6"	18 in	12in	south	-	pottery fragments, shells, and bark	Capped grave just east of Gr 4.
6	6	1	2' 6"	10 in	10 in	northwest	-	shell ornament frag and pottery frags	Child.
7	7	1	2' 10"	14 in	12 in	-	stone	-	Nothing in grave.
8	8	1	6 ft	18 in	11 in	south	-	pottery fragments	Capped grave.
9	9	2	3 ft	12 in	12 in	-	stone	small round jar; shell and pottery frags	Two children.
10	10	1	2' 8"	12 in	8 in	-	-	-	Child, capped grave, 13 in below surface.
11	11	1	6' 2"	17 in	12 in	south	-	-	No artifacts in grave; 13 in below surface.
12	12	1	2' 11"	11 in	11 in	south	-	shell beads, one clay bead	18 in from Gr 11; 12 in below surface.
13	13	1	6' 2"	16 in	12 in	west	earth	pottery fragments and flakes	Capped grave, disturbed.
14	14	1	6' 5"	15 in	8 in	west	pottery	-	Capped grave; 12 in below surface.
15	15	1	5' 10"	10 in	17 in	east	-	round stone on chest	Found 15 in below surface.
16	16	1	6' 8"	18 in	11 in	-	stone	dish at head	Found 10 in below surface.
17	17	1	5' 5"	20 in	8 in	-	pottery	-	Decayed skeleton; 9 in below surface.
18	18	2	5' 8"	16 in	13 in	west/east	-	-	Found 3 in below surface.
19	19	1	3' 10"	17 in	12 in	south	earth	one bowl and one jar	Child; found 17 in below surface. Graves 17 and 18 located a little up the hill from Gr 19 and 20.
20	20	1	1' 4"	12 in	9 in	-	pottery	shell beads	Stone box partitioned. Skull and arms in one section, rest of skeleton in other.
21	21	1	6 ft	18 in	14 in	-	-	-	Capped grave; old person.
22	22	1	6' 7"	19 in	12 in	west	-	-	Found 11 in below surface.
23	23	1	6' 7"	22 in	15 in	west	-	-	Capped grave; 6 in below surface.
24	24	1	2' 6"	18 in	7 in	west	stone	-	Child; several layers of capstones.
25	25	1	3' 3"	14 in	7 in	south	-	-	Child; 6 in below surface.
26	26	1	3' 6"	15 in	9 in	west	pottery	small water bottle	Child; 12 in below surface.
27	27	1	6' 3"	15 in	12 in	south	-	-	Capped grave; 16 in below surface.
28	28	1	3' 5"	10 in	7 in	southeast	-	dish at foot of grave	Child; 3 in below surface.
29	29	1	-	-	-	-	-	-	Adult, nothing found or saved
30	30	1	5' 6"	15 in	11 in	east	-	one clay bead	Subadult with arrow in "neck" vertebra.
31	31	1	2' 1"	9 in	6 in	east	-	one pot, charred reed/wood, animal bone	Child skeleton decayed.
32	32	1	3' 8"	12 in	7 in	-	-	-	Child; nothing in grave.
33	33	2	5' 3"	16 in	12 in	south	-	pottery and shell fragments	Located on central line of hill 153 ft. south of northern edge of hill. Adult and child.
34	34	1	6 ft	15 in	-	-	-	-	Old individual.
35	35	1	6' 1"	13 in	14 in	-	-	-	Curved tibia noted.
36	36	1	6' 1"	19 in	10 in	-	-	stone celt near pelvis	Large tibia.

Table 28. A Summary of Burial Information from the 1882 Putnam Notes at Jarman's Farm. (continued)

Burial Number	Putnam Burial No.	No. of Individ	Grave Length	Grave Width	Grave Depth	Head	Burial Floor	Grave Items	Comments
37	37	-	-	-	-	-	-	-	No information in notes.
38	38	1	6 ft	15 in	12 in	-	-	one bone implement, animal bone	Found 8 in below surface.
39	39	1	3' 2"	12 in	6 in	-	-	one dish at feet	Child; located at foot of hill near the lot dug out previously.
South of the House in the Garden									
40	1	1	3' 1"	12 in	9 in	-	-	-	Child; found 1 ft below surface.
41	2	1	5' 8"	17 in	12 in	-	-	-	Adult, found 6 in below surface.
42	3	1	6' 7"	18 in	12 in	west	-	two pots, one clay bead, three shells	Pots found near the head.
43	4	2	3' 6"	14 ion	10 in	-	-	two pots, shell spoon, one shell	Mother and child.
44	5	1	6' 8"	24 in	-	south	stone/ pottery	-	Large skeleton previously disturbed.
45	6	1	5' 2"	15 in	-	-	-	-	Nothing but skeleton.
46	7	1	-	-	-	southeast	-	-	Child; end on top of Grave 5.
47	8	2	6 ft	16 in	12 in	northeast/ southwest	pottery	-	Child head northeast, adult southwest.
48	9	2	2' 1"	14 in	12 in	northeast/ southwest	-	shell beads	Two children; found 16" below surface.
49	10	1	6' 1"	12 in	15 in	east	-	-	Found 15' below surface.
50	11	2	5' 5"	19 in	13 in	southeast/ northwest	-	one pot, flint knife, worked bone, shell	Adult and youth; large capstone.
51	12	1	6 ft	-	-	-	-	-	Nothing but skeleton.
52	13	1	5' 11"	16 in	9 in	southwest	-	dish at head	Found 18" below surface.
53	14	2	6 ft	15 in	11 in	-	-	-	Adult and child; found 1 ft below surface.
54	15	2	6' 6"	16 in	9 in	-	-	-	Two skeletons, nothing else.
55	16	2	5' 8"	16 in	9 in	north/south	-	-	Skeletons in bad condition.
56	17	2?	6' 4"	16 in	9 in	-	-	split animal bones	Skull of old individual on pelvis.
57	18	1	4 ft	14 in	10 in	-	-	fragmented pot-	Skeleton decayed; 1 ft below surface.
58	19	2	6 ft	19 in	12 in		-	one dish, shell spoon, shell	Child head to north, adult to south.
59	20	1	2' 10"	10 in	6 in	-	-	-	Child; found 25 in below surface.
60	21	1	5' 7"	18 in	12 in	-	-	-	Found 1 in below surface.
61	22	1	-	-	-	-	-	shell bead	Child grave, disturbed.
62	23	1	-	-	-	-	-	-	Notes confusing.
63	24	2	5' 4"	15 in	9 in	-	-	five pots at head of grave	Adult and youth; skull near grave center.
64	25	1	6' 2"	18 in	10 in	south	-	clay bead, shell spoon, shell	Found 14 in below surface.
65	26	1	6' 7"	17 in	12 in	-	-	-	Found 1 ft below surface.
66	27	1	6 ft	20 in	12 in	west	-	bone ornament at head	Found 2 ft 6 in below surface, deepest grave; four to five layers of capstones.
67	28	1	5' 10"	18 in	12 in	-	-	-	Bundle burial at south end.
68	29	1	5' 9"	10 in	8 in	northeast	-	water jar, pot, shell beads, shell spoon	Child, no bones saved.
69	30	1	2' 5"	10 in	8 in	-	-	-	Child skeleton decayed.
70	31	2	6' 2"	20 in	12 in	south/north	-	shell bead at head	Two adults; found 1 ft below surface.

Table 28. A Summary of Burial Information from the 1882 Putnam Notes at Jarman's Farm. (continued)

Burial Number	Putnam Burial No.	No. of Individ	Grave Length	Grave Width	Grave Depth	Head	Burial Floor	Grave Items	Comments
71	32	1	6' 2"	20 in	12 in	-	stone	-	Found 17 in below surface.
72	33	2	-	-	-	-	-	-	Two skeletons was the only notation.
73	34	1	6 ft	16 in	9 in	-	-	shells	Adult skeleton.
74	35	1	4' 4"	15 in	9 in	-	-	two dishes, discoidal, shell, animal bone	Child grave; found 18 in below surface.
75	36	2	6' 4"	15 in	9 in	west	-	-	Adults; both skulls at west end; shared sidestones with Gr 33.
76	37	1	4 ft	12 in	15 in	-	-	-	Child grave; found 1 ft below surface.
77	38	1	4 ft	20 in	11 in	-	-	-	Child grave; found 14 in below surface.
78	39	1	4 ft	16 in	12 in	-	-	-	Adult grave; found 15 in below surface.
79	40	5	5' 9"	24 in	12 in	west	-	bone ornament, dish, frog dish, pipe	Five crania in grave, two at head and one near shoulders and two near middle.
80	41	2	6'7"	20 in	7 in	-	-	-	Two adults, one head at each end.
81	42	1	3'7"	10 in	10 in	-	-	dish, human shaped pot, shell spoon	Child grave; dish and pot at head.
82	43	1	6'2"	19 in	7 in	-	-	-	Adult, no skull in grave.
83	44	1	6'4"	20 in	9 in	-	earth	-	Found 23 in below surface.
84	45	1	2 ft	18 in	9 in	-	-	-	Disturbed adult grave; Gr 43 and 44 sidestones form Gr 45 head and foot.
85	46	3	6 ft	18 in	9 in	-	-	shell bead, shell totem at head	Two adults and one child. Adults at each end of grave and child in center.
86	47	1	3' 2"	10 in	8 in	-	pottery?	shell spoon	Child grave; found 1 ft below surface.
87	48	1	4 ft	14 in	8 in	-	-	a few shell beads	Child grave; found 18 in below surface.

located southwest of the Jarman house. The other eight graves likely originated from the same general area.

Many of the human skeletal remains uncovered by Putnam and Woods were sent to the Peabody Museum. The Peabody Museum recently completed their NAGPRA (Native American Graves Protection and Repatriation Act) inventory of skeletal remains and associated burial objects. This inventory includes the Jarman Farm materials collected by Putnam and Woods (Peabody Museum of Archaeology and Ethnology 2000, Volumes 5-7). Summaries of the identified human elements are presented in Tables 29 and 30. Sex and approximate age of the represented individuals are also provided.

A comparison of Putnam's burial notes with the NAGPRA inventory denoted a few differences. For example, Putnam describes Grave 9 on the low hill around the Jarman house as containing the remains of two children. The NAGPRA analysis, however, identifies just one individual. Another example is seen for Grave 10 south of the Jarman house in which more individuals are listed in the NAGPRA inventory than in Putnam's notes. Putnam indicates that Grave 10 contained one adult individual. The NAGPRA analysis identified three individuals (two adults and one subadult) within the Grave 10 skeletal remains. Several other graves south of the Jarman house (15, 16, and 33) had more individuals represented in the NAGPRA inventory than reported by Putnam.

Artifact Descriptions

The explorations by Frederic Ward Putnam and George Woods yielded a diverse assemblage of ceramic, lithic, shell, bone, and other artifacts. Artifacts with Peabody Museum catalog numbers between 82-35-10/27176 and 82-35-10/27408 were retrieved during the May-June 1882 Putnam exploration (Table 31). Putnam's study was enhanced by the donation of an artifact collection by Dr. Jarman (Table 32). Dr. Jarman acquired these items (Peabody Museum catalog numbers 82-41-10/27409 through 82-41-10/27456) from the Jarman Farm site surface among the stone graves. Catalog numbers 83-68-31971 through 83-68-32004 comprise items from the December 1882 Woods investigation (Table 33).

Individual specimen descriptions have been organized by artifact category and presented in the following paragraphs. The authors were able to examine most of these artifacts during three research trips to the Peabody Museum between March 1998 and October 2002.

Ceramic Artifacts

The Jarman Farm ceramic assemblage includes six bottles, 16 jars, 19 bowls, one beaker, two trowels, three disks, one earplug, and one pipe. Rim and body sherds not associated with a whole or substantially complete vessel are excluded from this descriptive section.

Table 29. Inventory of Skeletal Remains Acquired from the 1882 Putnam Excavation at Dr. Jarman's Farm. *

Putnam Grave No.	Peabody Accession No.	Sex	Age	Elements and/or Notes
LOW HILL AROUND DR. JARMAN'S HOUSE				
1	82-35-10/27176.0	?	Infant	Fragmented left and right parietal; mandible; partial frontal; fragmented sphenoid; 6 incisors; 2 canines; 11 molars; partial left and right clavicle; fragmented left and right scapula; partial left and right humerus; fragmented left and right ulna; fragmented left ilium; fragmented left ishium; fragmented left and right femur; fragmented left and right tibia; 1 fragmented cervical vertebrae; 1 fragmented thoracic vertebrae; 3 fragmented right ribs; 3 fragmented left ribs.
4	82-35-10/27185.0 82-35-10/27186.0 82-35-10/27187.0	M	Adult	Left and right parietal; left temporal; left and right maxilla; left and right zygomatic; left and right nasal; left and right lacrimal; left and right palatine; left INC; mandible; frontal; partial occipital; partial sphenoid; ethmoid; vomer; 6 incisors; 4 canines; 4 premolars; 11 molars; left clavicle; partial right scapula; left and right humerus; fragmented left radius; right radius; fragmented left ulna; right ulna; left and right ilium; left and right ishium; left and right pubis; left and right femur; left and right tibia; partial left fibula; right fibula; 1 lumbar vertebrae; 2 sacrum.
6	82-35-10/27194.0	?	Infant	Fragmented left and right parietal; fragmented left and right temporal; mandible; frontal; fragmented occipital; fragmented sphenoid; 1 canine; 5 molars; left clavicle; left and right humerus; right radius; left ilium; left femur; partial right femur; left and right tibia; 1 fragmented lumbar vertebrae.
8	82-35-10/27195.0 82-35-10/27196.0	M	Adult	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left and right nasal; left and right lacrimal; fragmented left and right palatine; fragmented left and right INC; mandible; frontal; partial occipital; sphenoid; fragmented ethmoid; fragmented vomer; 3 incisors; 2 canines; 3 premolars; 6 molars; right clavicle; partial left and right scapula; left and right humerus; left and right radius; left and right ulna; left and right ilium; partial left ishium; fragmented right ishium; left and right femur; left and right tibia; left and right fibula; 3 cervical vertebrae; 5 partial sacrum.
9	82-35-10/27197.0	?	Infant	Left and right parietal; left and right temporal; left and right maxilla; left zygomatic; frontal; occipital; partial sphenoid; 5 incisors; 2 canines; left and right clavicle; fragmented left scapula; partial right scapula; left and right humerus; left radius; partial left ulna; right ulna; left and right ilium; left and right ishium; left and right femur; left and right tibia; left and right fibula; 3 cervical vertebrae; 9 thoracic vertebrae; 5 lumbar vertebrae; 11 right ribs; 9 left ribs; 3 partial tarsals; 11 metatarsals; 4 phalanges.
10	82-35-10/27199.0	?	Infant	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left and right nasal; fragmented left and right palatine; mandible; frontal; occipital; partial sphenoid; 6 incisors; 2 canines; 7 molars; left and right clavicle; fragmented left and right scapula; left humerus; partial right radius; partial right ulna; left and right ilium; left and right ischium; right pubis; left and right fibula; 1 partial cervical vertebrae; 5 fragmented thoracic vertebrae; sternum.
11	82-35-10/27200.0 82-35-10/27201.0 82-35-10/27201.1	M	Adult	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left and right nasal; fragmented right lacrimal; partial left palatine; right palatine; left and right INC; mandible; frontal; occipital; sphenoid; ethmoid; partial vomer; 5 incisors; 4 canines; 8 premolars; 7 molars; right clavicle; partial left and right scapula; left humerus; left and right radius; left and right ulna; left and right ilium; left and right ischium; left and right pubis; left and right femur; left and right tibia; left and right fibula; 3 partial cervical vertebrae; 5 sacrum.

Table 29. Inventory of Skeletal Remains Acquired from the 1882 Putnam Excavation at Dr. Jarman's Farm. * (continued)

Putnam Grave No.	Peabody Accession No.	Sex	Age	Elements and/or Notes
LOW HILL AROUND DR. JARMAN'S HOUSE (continued)				
11	82-35-10/27201.2	?	Adult	5 sacrum.
12	82-35-10/27202.0	?	Child	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; fragmented left and right nasal; partial left palatine; right palatine; mandible; frontal; occipital; fragmented sphenoid; 9 incisors; 4 canines; 12 molars; right clavicle; partial left scapula; fragmented right scapula; left and right humerus; left and right radius; left and right ulna; left and right ilium; left and right femur; left and right tibia; left and right fibula; 1 tarsal.
13	82-35-10/27205.0 82-35-10/27206.0	M	Adult	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left and right nasal; left lacrimal; left and right palatine; fragmented left INC; right INC; mandible; frontal; occipital; sphenoid; ethmoid; fragmented vomer; 6 incisors; 4 canines; 8 premolars; 11 molars; left clavicle; partial right clavicle; partial left scapula; right scapula; left and right humerus; left and right radius; left and right ulna; left and right ilium; left and right ischium; left pubis; left and right femur; left and right tibia; left and right fibula; right patella; 6 cervical vertebrae; 10 thoracic vertebrae; 5 lumbar vertebrae; 5 sacrum; 1 coccyx; 11 right ribs; 12 left ribs; 1 unidentified element; 5 carpals; 9 metacarpals; 11 tarsals; 10 metatarsals; 21 phalanges.
14	82-35-10/27209.0 82-35-10/27210.0	M	Adult	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left and right nasal; left lacrimal; left and right palatine; right INC; mandible; frontal; occipital; sphenoid; partial ethmoid; vomer; 8 incisors; 4 canines; 8 premolars; 12 molars; left and right clavicle; partial left and right scapula; left and right humerus; left and right radius; left and right ulna; left and right ilium; left and right ischium; left and right pubis; left and right femur; left and right tibia; left and right fibula; left patella; 6 cervical vertebrae; 11 thoracic vertebrae; 5 lumbar vertebrae; 5 sacrum; 2 sternum; 7 carpals; 9 metacarpals; 12 tarsals; 10 metatarsals; 27 phalanges.
15	82-35-10/27212.0 82-35-10/27213.0	F	Adult	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left and right nasal; fragmented left lacrimal; left and right palatine; mandible; frontal; occipital; sphenoid; fragmented vomer; 5 incisors; 3 canines; 6 premolars; 10 molars; left and right clavicle; left scapula; partial right scapula; left and right humerus; left and right radius; left and right ulna; left and right ilium; left and right ischium; right pubis; left and right femur; left and right tibia; left and right fibula; left and right patella; 7 cervical vertebrae; 12 thoracic vertebrae; 5 lumbar vertebrae; 5 sacrum; 1 coccyx; 12 right ribs; 12 left ribs; 2 sternum; 11 carpals; 10 metacarpals; 10 tarsals; 10 metatarsals; 25 phalanges.
16	82-35-10/27217.0 82-35-10/27218.0	F	Adult	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; partial left and right nasal; fragmented left palatine; right palatine; mandible; frontal; occipital; fragmented ethmoid; 3 incisors; 3 canines; 5 premolars; 2 molars. Left and right clavicle; partial left and right scapula; left and right humerus; left and right radius; left and right ulna; left and right ilium; left and right ischium; left and right pubis; partial left femur; right femur; left and right tibia; left and right fibula; left patella; 6 cervical vertebrae; 12 thoracic vertebrae; 5 lumbar vertebrae; 3 sacrum; 12 partial right ribs; 12 partial left ribs; 2 sternum; 3 carpals; 7 metacarpals; 13 tarsals; 7 metatarsals; 13 phalanges.

Table 29. Inventory of Skeletal Remains Acquired from the 1882 Putnam Excavation at Dr. Jarman's Farm. * (continued)

Putnam Grave No.	Peabody Accession No.	Sex	Age	Elements and/or Notes
LOW HILL AROUND DR. JARMAN'S HOUSE (continued)				
17	82-35-10/27221.0 82-35-10/27222.0	F	Adult	Left and right maxilla; partial left zygomatic; right zygomatic; left and right nasal; fragmented right lacrimal; left and right palatine; partial mandible; frontal; fragmented sphenoid; fragmented ethmoid; 5 incisors; 4 canines; 5 premolars; 7 molars; partial left scapula; right scapula; left and right humerus; left and right ilium; left and right ischium; left and right pubis; left and right femur; left and right tibia; left and right fibula; 3 partial cervical vertebrae; 12 thoracic vertebrae; 5 lumbar vertebrae; 4 sacrum.
18	82-35-10/27223.0	M	Adult	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left and right nasal; left lacrimal; fragmented right lacrimal; fragmented right palatine; left and right INC; mandible; frontal; occipital; sphenoid; ethmoid; vomer; 4 incisors; 3 canines; 7 premolars; 8 molars.
18	82-35-10/27224.0 82-35-10/27225.0	F	Adult	Left and right parietal; left and right temporal; left and right maxilla; left zygomatic; partial left and right palatine; mandible; frontal; occipital; partial sphenoid; 8 incisors; 3 canines; 6 premolars; 11 molars; left and right clavicle; partial left and right scapula; left and right humerus; left and right radius; left and right ulna; left and right ilium; left ischium; left and right femur; left and right tibia; left and right fibula; left and right patella; 7 cervical vertebrae; 13 thoracic vertebrae; 5 lumbar vertebrae; 5 sacrum; 2 left ribs; 1 carpal; 5 metacarpals; 9 tarsals; 5 metatarsals; 13 phalanges.
19	82-35-10/27226.0	?	Child	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left and right palatine; mandible; frontal; partial occipital; fragmented sphenoid; fragmented ethmoid; 1 incisor; 1 canine; 12 molars; partial right ilium; left and right femur; left and right tibia.
20	82-35-10/27229.0	?	Child	Partial mandible; one incisor; 1 canine; 6 molars; right humerus; fragmented left ilium; left tibia; 1 metacarpal.
21	82-35-10/27231.0 82-35-10/27232.0	F	Adult	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left and right nasal; right left and right palatine; right INC; mandible; frontal; partial occipital; fragmented sphenoid; 2 canines; 4 premolars; left and right clavicle; fragmented left scapula; partial right scapula; left and right humerus; left and right radius; left and right ulna; left ilium; partial right ilium; partial left ischium; fragmented left pubis; left and right femur; left and right tibia; left fibula; partial right fibula; left and right patella; 3 lumbar vertebrae; 4 sacrum.
22	82-35-10/27233.0 82-35-10/27234.0	M	Adult	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left and right nasal; left lacrimal; partial right lacrimal; left palatine; fragmented right palatine; left and right INC; mandible; frontal; partial occipital; sphenoid; ethmoid; fragmented vomer; 7 incisors; 4 canines; 7 premolars; 5 molars; left and right clavicle; partial left and right scapula; left and right humerus; partial left and right radius; partial left and right ulna; left and right ilium; left and right ischium; left pubis; left and right femur; left tibia; fragmented left fibula; 1 cervical vertebrae; 3 lumbar vertebrae; 2 sacrum
22	82-35-10/27235.0	?	Adult	This element likely associated with 82-35-10/27233.0 and 82-35-10/27234.0 remains. Right fibula.

Table 29. Inventory of Skeletal Remains Acquired from the 1882 Putnam Excavation at Dr. Jarman's Farm. * (continued)

Putnam Grave No.	Peabody Accession No.	Sex	Age	Elements and/or Notes
LOW HILL AROUND DR. JARMAN'S HOUSE (continued)				
23	82-35-10/27236.0 82-35-10/27237.0	F	Adult	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left and right nasal; fragmented right lacrimal; left palatine; partial right palatine; right INC; mandible; frontal; occipital; sphenoid; fragmented ethmoid; fragmented vomer; 2 incisors; 2 canines; 5 premolars; 4 molars; left and right clavicle; fragmented left scapula; left and right humerus; left radius; partial left ulna; right ulna; right femur; fragmented left tibia; fragmented left fibula; 2 cervical vertebrae.
24	82-35-10/27238.0	?	Infant	Left and right temporal; partial mandible; ossicles; 1 premolar; right clavicle; left humerus; right radius; left ulna; partial right femur.
25	82-35-10/27239.0 82-35-10/27239.1	?	Child	Fragmented left temporal; fragmented mandible; 1 canine; 3 premolars; partial left clavicle; left and right humerus; right radius; left and right ulna; left ilium; left femur; partial right femur; left and right tibia; partial left and right fibula.
26	82-35-10/27240.0	-	-	Mandible; 1 incisor; 3 canines; 10 molars; right clavicle; left and right humerus; left radius; left ulna; right ilium; fragmented left femur; right femur; left and right tibia; left and right fibula.
27	82-35-10/27242.0 82-35-10/27243.0	F	Adult	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left and right nasal; left and right lacrimal; left and right palatine; left and right INC; mandible; frontal; occipital; sphenoid; ethmoid; vomer; 1 incisor; 3 canines; 7 premolars; 12 molars; right clavicle; partial left and right scapula; left and right humerus; left and right radius; left and right ulna; left and right femur; left and right tibia; partial left fibula; right fibula.
28	82-35-10/27244.0	?	Child	Partial mandible; 3 incisors; 2 canines; 3 molars; partial right femur; right tibia; right fibula.
30	82-35-10/27246.0 82-35-10/27247.0	F	Subadult	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left and right nasal; left and right lacrimal; partial left and right palatine; left and right INC; mandible; frontal; occipital; sphenoid; ethmoid; fragmented vomer; 8 incisors; 3 canines; 8 premolars; 12 molars; left and right clavicle; fragmented left and right scapula; left and right humerus; left and right radius; left and right ulna; left and right ilium; left and right ischium; left and right pubis; left and right femur; left and right tibia; left and right fibula; left and right patella; 7 cervical vertebrae; 11 thoracic vertebrae; 5 lumbar vertebrae; 2 sacrum; 11 right ribs; 11 left ribs; 2 sternum; 8 carpals; 8 metacarpals; 13 tarsals; 10 metatarsals; 24 phalanges.
30	82-35-10/27248.0	?	Subadult	This element likely associated with 82-35-10/27246.0 and 82-35-10/27247.0 remains. 1 thoracic vertebrae.
31	82-35-10/27250.0	?	Infant	Fragmented right humerus; partial right radius; partial left and right ulna; partial left ilium; fragmented left and right femur; 1 fragmented right rib.
32	82-35-10/27253.0	?	Child	Partial mandible; 2 incisors; 6 molars; left and right femur; left and right tibia.
33	82-35-10/27254.0	F	Adult	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left and right nasal; left and right lacrimal; left and right palatine; left and right INC; frontal; fragmented occipital; sphenoid; ethmoid; vomer; 1 incisor; 3 premolars; 5 molars.

Table 29. Inventory of Skeletal Remains Acquired from the 1882 Putnam Excavation at Dr. Jarman's Farm. * (continued)

Putnam Grave No.	Peabody Accession No.	Sex	Age	Elements and/or Notes
LOW HILL AROUND DR. JARMAN'S HOUSE (continued)				
33	82-35-10/27255.0	?	Fetus	Fragmented occipital; left humerus; partial left fibula.
34	82-35-10/27257.0	?	Adult	Complete mandible; right clavicle; left and right humerus; left and right radius; left and right ulna; partial left femur; right femur; right tibia.
35	82-35-10/27258.0 82-35-10/27259.0	F	Adult	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left and right nasal; left and right palatine; mandible; frontal; fragmented occipital; fragmented sphenoid; 3 incisors; 3 canines; 6 premolars; 12 molars; right clavicle; partial left scapula; fragmented right scapula; left and right humerus; left and right radius; right ulna; left ilium; partial right ilium; partial left and right ischium; left and right femur; left and right tibia; partial left fibula; right fibula; 4 sacrum.
36	82-35-10/27261.0	?	Adult	Left and right tibia.
38	82-35-10/27262.0	M	Adult	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left and right nasal; fragmented right palatine; fragmented right INC; frontal; partial occipital; fragmented sphenoid; fragmented ethmoid; fragmented vomer.
39	82-35-10/27264.0	?	Child	Left and right parietal; left and right temporal; left and right maxilla; left zygomatic; mandible; frontal; occipital; fragmented sphenoid; 7 incisors; 2 canines; 12 molars; right humerus; partial right ulna; left and right femur; left and right tibia; partial left fibula.
STONE GRAVES SOUTH OF HOUSE				
1	82-35-10/27266.0	?	Infant	Left and right temporal; right humerus; left radius; right ulna; left and right tibia; fragmented left fibula.
2	82-35-10/27267.0 82-35-10/27268.0	F	Adult	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left and right nasal; right lacrimal; left and right palatine; left and right INC; mandible; frontal; occipital; sphenoid; ethmoid; partial vomer; 1 incisor; 1 canine; 2 premolars; 10 molars; left and right humerus; left and right radius; left and right ulna; left and right femur; left and right tibia; left and right fibula.
3	82-35-10/27269.0 82-35-10/27270.0	F	Adult	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left and right nasal; right lacrimal; left and right palatine; left and right INC; mandible; frontal; occipital; sphenoid; ethmoid; partial vomer; 1 incisor; 1 canine; 2 premolars; 10 molars; left and right humerus; left and right radius; left and right ulna; left and right femur; left and right tibia; left and right fibula.
4	82-35-10/27275.0	F	Adult	Mandible; 2 incisors; 1 canine; 3 premolars; 6 molars; partial left and right clavicle; partial left scapula; right scapula; left and right humerus; left and right radius; left and right ulna; left ilium; left and right femur; left tibia; left and right fibula; left and right patella; 3 cervical vertebrae; 12 thoracic vertebrae; 5 lumbar vertebrae; 1 partial left rib; 2 carpals; 7 metacarpals; 6 tarsals; 6 metatarsals; 11 phalanges.

Table 29. Inventory of Skeletal Remains Acquired from the 1882 Putnam Excavation at Dr. Jarman's Farm. * (continued)

Putnam Grave No.	Peabody Accession No.	Sex	Age	Elements and/or Notes
STONE GRAVES SOUTH OF HOUSE (continued)				
4	82-35-10/27279.0	?	Child	Mandible; 4 molars.
5	82-35-10/27281.0	M	Adult	Partial left parietal; fragmented right parietal; right temporal; complete mandible; fragmented frontal; fragmented occipital; right clavicle; fragmented left humerus; partial right humerus; partial left and right radius; left ulna; left and right femur; partial left tibia; 1 lumbar vertebrae; 2 metacarpals.
6	82-35-10/27282.0 82-35-10/27283.0	M	Adult	Left and right parietal; left and right temporal; right zygomatic; mandible; frontal; partial occipital; fragmented sphenoid; fragmented ethmoid; 1 canine; 3 premolars; 6 molars; left and right clavicle; fragmented left and right scapula; left and right humerus; left and right radius; left and right ulna; left and right ilium; left and right ischium; left and right pubis; left and right femur; left and right tibia; partial left fibula; right fibula; 5 sacrum.
8	82-35-10/27284.0 82-35-10/27285.0	M	Adult	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left and right nasal; left and right lacrimal; left palatine; left and right INC; mandible; frontal; occipital; sphenoid; partial ethmoid; vomer; 5 incisors; 2 canines; 2 premolars; 5 molars; left clavicle; partial left scapula; fragmented right scapula; partial left humerus; right humerus; left and right ulna; left and right femur; left and right tibia.
8	82-35-10/27286.0	?	Child	Left and right parietal; left and right maxilla; right zygomatic; fragmented left and right palatine; left INC; partial mandible; frontal; partial occipital; sphenoid; ethmoid; partial vomer; 2 canines; 1 premolar; 7 molars; right femur.
9	82-35-10/27287.0	?	Child	Partial left parietal; right parietal; left and right temporal; left and right maxilla; left and right zygomatic; fragmented left and right nasal; left and right palatine; mandible; frontal; fragmented occipital; fragmented sphenoid; 3 incisors; 1 canine; 14 molars; right clavicle; partial right scapula; left humerus; partial right humerus; partial right radius; left and right ilium; left and right femur; left and right tibia; fragmented right fibula.
9	82-35-10/27288.0	?	Child	Left parietal; partial right parietal; left temporal; left and right maxilla; left and right zygomatic; left palatine; mandible; frontal; fragmented occipital; 2 canines; 12 molars; right clavicle; partial left and right scapula; fragmented left humerus; right humerus; right radius; left and right ulna; left ilium; left and right femur; left and right tibia; partial left and right fibula.
10	82-35-10/27290.0	F	Adult	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left and right nasal; partial right lacrimal; left and right palatine; right INC; mandible; frontal; occipital; sphenoid; ethmoid; vomer; 1 incisor; 2 canine; 4 molars; 1 cervical vertebrae.
10	82-35-10/27291.0	M ? ?	Adult Adult Subadult	1 partial mandible; 1 canine; 4 premolars; 4 molars; 2 right clavicle; 3 left humerus; 3 right humerus; 1 left radius; 2 right radius; 1 left ulna; 2 right ulna; 1 left ilium; 1 right ilium; 1 left ischium; 1 right ischium; 1 left pubis; 1 right pubis; 2 right femur; 2 left tibia; 2 right tibia; 1 left fibula; 1 right fibula; 1 lumbar vertebrae.

Table 29. Inventory of Skeletal Remains Acquired from the 1882 Putnam Excavation at Dr. Jarman's Farm. * (continued)

Putnam Grave No.	Peabody Accession No.	Sex	Age	Elements and/or Notes
STONE GRAVES SOUTH OF HOUSE (continued)				
11	82-35-10/27292.0 82-35-10/27293.0	M	Adult	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left and right nasal; left and right lacrimal; left and right palatine; left and right INC; mandible; frontal; occipital; sphenoid; ethmoid; 4 incisors; 3 canines; 4 premolars; 12 molars; left and right clavicle; left and right humerus; left and right radius; left and right ulna; right ilium; right ischium; right pubis; left and right femur; left and right tibia; 4 sacrum.
11	82-35-10/27294.0 82-35-10/27295.0	?	Subadult	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left and right nasal; partial left and right lacrimal; left and right palatine; left and right INC; mandible; frontal; sphenoid; ethmoid; vomer; 1 canine; 4 premolars; 12 molars; partial left clavicle; right clavicle; fragmented left scapula; left and right humerus; right radius; right ulna; left and right femur; left and right tibia; 1 fragmented sacrum; 1 fragmented right rib.
12	82-35-10/27305.0 82-35-10/27306.0	M	Subadult	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left and right nasal; left and right lacrimal; left and right palatine; left and right INC; mandible; frontal; occipital; sphenoid; ethmoid; vomer; 5 incisors; 4 canines; 8 premolars; 11 molars; right clavicle; left and right humerus; left and right radius; left and right ulna; left and right ilium; left and right ishium; left and right pubis; left femur; partial right femur; left and right tibia; right fibula; 1 fragmented sacrum.
13	82-35-10/27307.0 82-35-10/27308.0	M	Adult	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left and right nasal; left and right lacrimal; fragmented right palatine; left and right INC; mandible; frontal; occipital; partial sphenoid; ethmoid; vomer; 3 incisors; 4 canines; 4 premolars; 8 molars; left humerus; partial left femur; right femur; partial left and right tibia; left fibula.
14	82-35-10/27310.0 82-35-10/27311.0	?	Adult	Left and right parietal; left and right temporal; fragmented left and right maxilla; right zygomatic; left and right nasal; frontal; fragmented occipital; fragmented sphenoid; 1 incisor; left and right clavicle; left and right humerus; right radius; right ulna; left and right femur; left and right tibia; right fibula; 2 cervical vertebrae.
14	82-35-10/27312.0	?	Child	Left and right maxilla; fragmented right zygomatic; right and left palatine; partial mandible; partial occipital; fragmented sphenoid; 6 molars; left humerus; left and right femur; right tibia.
15	82-35-10/27313.0 82-35-10/27314.0 82-35-10/27315.0	M F ?	Adult Adult Child	2 left and right parietal; 2 left and right temporal; 1 left nasal; 2 right nasal; 1 mandible; 2 frontal; 1 occipital; 2 sphenoid; 1 hyoid; 2 incisors; 2 canines; 5 premolars; 7 molars; left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; partial left and right zygomatic; left lacrimal; left and right palatine; partial left and right INC; mandible; frontal; occipital; sphenoid; ethmoid; 2 incisors; 4 canines; 3 premolars; right clavicle; left humerus; 2 right humerus; left and right radius; left and right ulna; 2 left femur; left tibia; 2 right tibia.
16	82-35-10/27316.0	F ? ?	Adult Adult (2) Subadult	Right temporal; 2 mandible; 3 incisors; 3 canines; 6 premolars; 8 molars; right clavicle; 2 left humerus; left radius; left and right ilium; left and right ischium; left and right pubis; 3 left femur; 2 right femur; 2 left and right tibia.
17	82-35-10/27317.0	?	Subadult	Left and right maxilla; left zygomatic; left and right nasal; left and right palatine; mandible; frontal; fragmented sphenoid; 2 incisors; 2 canines; 3 premolars; 10 molars.

Table 29. Inventory of Skeletal Remains Acquired from the 1882 Putnam Excavation at Dr. Jarman's Farm. * (continued)

Putnam Grave No.	Peabody Accession No.	Sex	Age	Elements and/or Notes
STONE GRAVES SOUTH OF HOUSE (continued)				
17	82-35-10/27318.0 82-35-10/27319.0	F	Adult	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left and right nasal; left and right lacrimal; partial left palatine; right palatine; frontal; occipital; sphenoid; ethmoid; partial vomer; left and right clavicle; left and right humerus; left and right radius; partial left ulna; right ulna; left and right femur; left tibia; partial right tibia; left and right fibula; 2 cervical vertebrae; 4 sacrum.
17	82-35-10/27320.0	?	Adult	Left clavicle.
19	82-35-10/27324.0 82-35-10/27325.0	F	Adult	Fragmented left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left and right nasal; left lacrimal; left and right palatine; mandible; frontal; sphenoid; fragmented ethmoid; vomer; 8 incisors; 4 canines; 7 premolars; 10 molars; left and right femur; left tibia; left fibula.
19	82-35-10/27326.0	?	Child	Partial mandible; 2 premolars; left and right femur; partial left tibia; right tibia.
21	82-35-10/27330.0	F	Adult	Partial left humerus; right humerus; left and right femur; left and right tibia.
22	82-35-10/27331.0	?	Child	Right femur; partial left tibia; right tibia; left fibula; partial right fibula.
24	82-35-10/27333.0 82-35-10/27334.0	?	Subadult	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left and right nasal; left lacrimal; left and right palatine; mandible; frontal; sphenoid; ethmoid; vomer; 1 canine; 11 molars; partial left humerus; right humerus; partial right radius; partial left and right femur; left and right tibia.
24	82-35-10/27335.0 82-35-10/27336.0	M	Adult	Fragmented left and right parietal; fragmented occipital; fragmented mandible; 2 molars; left and right clavicle; left and right humerus; left and right radius; left and right ulna; left and right ilium; left and right ischium; left and right pubis; left and right femur; left and right tibia; left fibula; partial right fibula; 4 sacrum.
25	82-35-10/27342.0 82-35-10/27343.0	M	Adult	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left nasal; partial right nasal; left lacrimal; left and right palatine; left and right INC; frontal; occipital; sphenoid; partial ethmoid; partial vomer; 2 incisors; 4 premolars; 4 molars; left clavicle; left scapula; partial right scapula; left and right humerus; left and right radius; left ulna; left ilium; left ischium; left pubis left and right femur; left tibia; partial right tibia.
26	82-35-10/27347.0	?	Adult	Fragmented right parietal; fragmented left and right temporal; fragmented occipital; 1 molar; fragmented right scapula; left and right femur; left and right tibia; left fibula; partial right fibula.
27	82-35-10/27348.0 82-35-10/27349.0	M	Adult	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left and right nasal; left and right lacrimal; left and right palatine; left and right INC; mandible; frontal; occipital; sphenoid; ethmoid; vomer; 7 incisors; 4 canines; 8 premolars; 8 molars; left and right clavicle; left and right humerus; left and right femur; left and right tibia.
28	82-35-10/27352.0	?	Adult	Partial left tibia; fragmented right tibia.

Table 29. Inventory of Skeletal Remains Acquired from the 1882 Putnam Excavation at Dr. Jarman's Farm. * (continued)

Putnam Grave No.	Peabody Accession No.	Sex	Age	Elements and/or Notes
STONE GRAVES SOUTH OF HOUSE (continued)				
31	82-35-10/27353.0	?	Adult (2)	2 mandibles; 1 incisor; 3 canines; 5 premolars; 1 molar; left and right humerus; 2 left and right tibia.
33	82-35-10/27370.0	M	Adult	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left and right nasal; left lacrimal; fragmented left and right INC; partial mandible; frontal; partial occipital; fragmented sphenoid; fragmented ethmoid; 2 incisors; 4 canines; 8 premolars; 6 molars.
33	82-35-10/27371.0 82-35-10/27372.0	?	Adult (3)	These remains associated with 82-35-10/27370.0 remains. Mandible; 1 canine; 3 premolars; 3 molars; left and right clavicle; 3 left and right humerus; 2 left and right radius; 2 left and right ulna; 2 left and right femur; 2 left and right tibia; 2 left fibula; right fibula.
34	82-35-10/27359.0	F	Adult	Left parietal; partial right parietal; left and right temporal; mandible; frontal; fragmented sphenoid; 3 incisors; 1 canine; 3 premolars; 2 molars.
35	82-35-10/27360.0	?	Child	Left and right maxilla; left zygomatic; partial mandible; frontal; 1 incisor; 1 canine; 11 molars.
36	82-35-10/27366.0 82-35-10/27368.0	F?	Adult	Fragmented left parietal; right parietal; fragmented frontal; fragmented occipital; left and right clavicle; left humerus; partial right humerus; right radius; partial left ulna; left and right femur; left and right tibia; left and right fibula.
36	82-35-10/27367.0	F	Adult	Left and right parietal; left and right temporal; left and right maxilla; right nasal; fragmented mandible; frontal; occipital; fragmented sphenoid; 2 incisors; 2 canines; 3 premolars; 4 molars; fragmented right ulna.
37	82-35-10/27373.0	?	Child	Left and right parietal; right temporal; mandible; frontal; partial occipital; 3 incisors; 2 canines; 8 molars.
38	82-35-10/27374.0	?	Child	Left and right parietal; partial left and right temporal; mandible; partial frontal; fragmented occipital; right humerus; lft and right radius; left ulna; partial left and right femur; left and right tibia; partial left and right fibula.
39	82-35-10/27234.0	M	Adult	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; partial left and right nasal; partial left and right palatine; mandible; frontal; partial occipital; fragmented sphenoid; fragmented ethmoid; fragmented vomer; 1 canine; 4 premolars.
39	82-35-10/27376.0	?	Adult	This element likely associated with the 82-35-10/27375.0 cranial remains. Right tibia.
40	82-35-10/27377.0	M	Adult	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left and right nasal; right lacrimal; left and right palatine; left and right INC; mandible; frontal; occipital; partial sphenoid; partial ethmoid; 1 incisor; 2 premolars; 8 molars.
40	82-35-10/27378.0	F	Adult	Fragmented left and right parietal; fragmented left temporal; left and right maxilla; left and right zygomatic; left and right nasal; partial left and right palatine; left and right INC; mandible; frontal; 1 incisor; 2 canines; 7 premolars; 10 molars.

Table 29. Inventory of Skeletal Remains Acquired from the 1882 Putnam Excavation at Dr. Jarman's Farm. * (continued)

Putnam Grave No.	Peabody Accession No.	Sex	Age	Elements and/or Notes
STONE GRAVES SOUTH OF HOUSE (continued)				
40	82-35-10/27379.0	?	Adult	Partial left and right parietal; left and right temporal; left maxilla; partial right maxilla; left zygomatic; fragmented right zygomatic; partial mandible; partial frontal; fragmented occipital; fragmented sphenoid; fragmented vomer; 1 canine; 4 premolars; 5 molars.
40	82-35-10/27380.0 82-35-10/27381.0	?	Child (2)	Left and right parietal; 2 left temporal; right temporal; 2 left maxilla; fragmented right maxilla; left zygomatic; partial left and right nasal; fragmented left INC; 2 mandible; partial frontal; partial occipital; 2 fragmented sphenoid; 12 molars; partial left clavicle; right clavicle; partial left humerus; 2 right humerus; partial left and right radius; left ulna; 2 partial right ulna; 2 fragmented left femur; right femur; 2 left tibia; fragmented right tibia; partial left fibula; 2 fragmented right fibula.
40	82-35-10/27382.0	F ?	Adult Adult (2)	These postcranial remains likely associated with the 82-35-10/27377.0, 82-35-10/27378.0, and 82-35-10/27379.0 adult cranial remains from grave 40. These postcranial remains are 2 left and right clavicle; 3 left and right humerus; 2 left radius; 3 right radius; 2 right ulna; 3 left and right ilium; 3 left and right ischium; pubis; 3 left and right femur; 3 left and right tibia; left fibula; 2 partial right fibula; 1 lumbar vertebrae; 5 sacrum; 1 partial metatarsal.
41	82-35-10/27387.0	M	Adult	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left and right nasal; left and right lacrimal; left and right palatine; left and right INC; mandible; frontal; occipital; sphenoid; ethmoid; vomer; 2 incisors; 5 premolars; 5 molars.
41	82-35-10/27388.0	?	Adult	Mandible; 2 incisors; 3 premolars; 4 molars.
41	82-35-10/27389.0 82-35-10/27389.1	?	Adult (2)	These postcranial remains likely associated with the 82-35-10/27387.0 and 82-35-10/27388.0 cranial remains. These postcranial remains are right scapula; left and right humerus; right radius; right ulna; left and right femur; left and right tibia.
42	82-35-10/27390.0	?	Infant	Right humerus; partial left femur; partial left and right tibia; partial left and right fibula.
43	82-35-10/27394.0	M	Adult	Mandible; 1 premolar; 6 molar; left and right clavicle; left humerus; partial right humerus; right radius; left ulna; left and right femur; left and right tibia; partial left fibula; right fibula.
44	82-35-10/27395.0 82-35-10/27396.0	F	Adult	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left and right nasal; left and right lacrimal; left and right palatine; mandible; frontal; occipital; sphenoid; ethmoid; fragmented vomer; 1 incisor; 3 canines; 6 premolars; 10 molars; left and right clavicle; left and right humerus; left and right radius; left and right ulna; left and right ilium; partial left ischium; right ischium; fragmented left pubis; partial right pubis; left and right femur; left and right tibia; left and right fibula
46	82-35-10/27398.0	F ?	Adult Adult (2)	Mandible; 4 incisors; 2 canines; 4 premolars; 4 molars; 2 left humerus; 3 right humerus; left and right radius; left and right ulna; left ilium; 2 left and right femur; left tibia; 2 right tibia.
46	82-35-10/27399.0	?	Child	Fragmentary left humerus; left and right radius; left ulna; partial right femur.

Table 29. Inventory of Skeletal Remains Acquired from the 1882 Putnam Excavation at Dr. Jarman's Farm. * (continued)

Putnam Grave No.	Peabody Accession No.	Sex	Age	Elements and/or Notes
STONE GRAVES SOUTH OF HOUSE (continued)				
48	82-35-10/27402.0	?	Child	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left and right lacrimal; right palatine; mandible; frontal; occipital; partial sphenoid; fragmented ethmoid; 3 incisors; 4 canines; 12 molars; left and right humerus; partial left radius; left and right ulna.
STONE GRAVE EAST OF HOUSE				
1	82-35-10/27403.0	F	Adult	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left and right nasal; left and right lacrimal; partial left and right palatine; fragmented left INC; mandible; frontal; sphenoid; partial ethmoid; fragmented vomer; 8 incisors; 4 canines; 8 premolars; 12 molars.
1	82-35-10/27404.0	?	Adult	Fragmented left and right parietal; complete mandible; partial frontal; fragmented occipital; 3 molars; fragmented left tibia.
1	82-35-10/27405.0	F ? ? ?	Adult Adult Subadult Child	These remains associated with 82-35-10/27403.0 and 82-35-10/27404.0 remains. Partial mandible; 3 molars; 2 left clavicle; right clavicle; 2 left humerus; partial right humerus; left and right radius; fragmented left and right ulna; 2 left ilium; left ischium; 2 left femur; 3 right femur; 2 left and right tibia; fragmented left fibula; right fibula.

* data compiled from NAGPRA inventory, Peabody Museum of Archaeology and Ethnology, Harvard University (April 2000, Volumes 5-7).

Table 30. Inventory of Skeletal Remains Acquired from the 1882 Woods Excavation at Dr. Jarman's Farm. *

Woods Grave No.	Peabody Accession No.	Sex	Age	Elements and/or Notes
STONE GRAVES SOUTHWEST OF HOUSE				
1	83-68-10/31969.0	M	Adult	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left and right nasal; left lacrimal; left and right palatine; left and right INC; mandible; frontal; occipital; sphenoid; partial ethmoid; fragmented vomer; 2 incisors; 4 canines; 8 premolars; 8 molars.
2	83-68-10/31970.0	M	Adult	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left and right nasal; left lacrimal; partial right lacrimal; left and right palatine; left and right INC; mandible; frontal; occipital; sphenoid; ethmoid; vomer; 8 incisors; 4 canines; 9 premolars; 12 molars.
3	83-68-10/31976.0	?	Adult	2 fragmented sacrum; fragmented left rib; partial metatarsal; 3 phalanges.
4	83-68-10/31979.0	M	Adult	Left and right parietal; left and right temporal; frontal; partial occipital; fragmented sphenoid; fragmented ethmoid.
4a	83-68-10/31981.0	F	Adult	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left and right nasal; fragmented left lacrimal; right lacrimal; fragmented left and right palatine; mandible; frontal; occipital; sphenoid; fragmented ethmoid; vomer; 7 incisors; 4 canines; 8 premolars; 6 molars.
6	83-68-10/31987.0 83-68-10/31988.0	M	Adult	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; fragmented left and right nasal; left and right lacrimal; left and right palatine; fragmented right INC; mandible; frontal; occipital; sphenoid; fragmented ethmoid; fragmented vomer; 8 incisors; 4 canines; 8 premolars; 4 molars; left and right clavicle; partial left and right scapula; left and right humerus; left and right radius; left and right ulna; fragmented right pubis; left and right femur; left and right tibia; left and right fibula.
7	83-68-10/31995.0	?	Child (2)	2 left and right parietal; partial left and right temporal; left and right maxilla; 2 mandible; 2 frontal; fragmented occipital; fragmented sphenoid; 4 incisors; 2 canines; 16 molars; partial left humerus; fragmented right ulna; partial right femur; 1 unidentified shaft fragment.
8	83-68-10/31996.0 83-68-10/31997.0	M	Adult	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left and right nasal; left and right lacrimal; left and right palatine; fragmented left INC; mandible; frontal; occipital; sphenoid; ethmoid; vomer; 8 incisors; 4 canines; 7 premolars; 9 molars; left and right clavicle; right scapula; left and right humerus; left ulna; left and right ilium; left and right ischium; left and right pubis; left and right femur; left and right tibia; left and right fibula; 1 cervical vertebrae; 5 sacrum; 2 sternum.
8	83-68-10/31998.0	F	Adult	Left and right clavicle; partial left scapula; fragmented right scapula; left and right radius; left and right ilium; left and right ischium; left and right pubis; left and right femur.
9	83-68-10/32001.0 83-68-10/32002.0	M	Adult	Left and right parietal; left and right temporal; left and right maxilla; left and right zygomatic; left and right nasal; fragmented left lacrimal; left and right palatine; mandible; frontal; occipital; sphenoid; fragmented ethmoid; fragmented vomer; 1 canine; 4 premolars; 10 molars; left and right clavicle; partial left and right scapula; left and right humerus; left and right ulna; left and right ilium; left and right ischium; left and right pubis; left and right femur; left and right tibia; left and right fibula; 3 sacrum; 1 partial sternum.

* data compiled from NAGPRA inventory, Peabody Museum of Archaeology and Ethnology, Harvard University (April 2000, Volume 7).

Table 31. Inventory of Artifacts Acquired from the 1882 Putnam Excavation at Dr. Jarman's Farm.

Accession No.	Peabody Reference	Artifact Description
82-35-10/27162	Burned structure, 200 ft. north of house	Charred timber sections.
82-35-10/27163	Burned structure, 200 ft. north of house	Daub fragments.
82-35-10/27164	Burned structure, 200 ft. north of house	One burned animal bone fragment.
82-35-10/27165	Burned structure, 200 ft. north of house	Limestone fragment.
82-35-10/27166	Burned structure, 200 ft. north of house	Limestone hammerstone.
82-35-10/27167	Burned structure, 200 ft. north of house	One lithic flake.
82-35-10/27168	Burned structure, 200 ft. north of house	One abrasive siltstone disk.
82-35-10/27169	Burned structure, 200 ft. north of house	One ceramic disk, one sandstone disk.
82-35-10/27170	Burned structure, 200 ft. north of house	Nine ceramic sherds.
82-35-10/27171	Burned structure, 200 ft. north of house	Notched rim bowl.
82-35-10/27172	Burned structure, 200 ft. north of house	Large jar with strap handles.
82-35-10/27173	Burned structure, 200 ft. north of house	One ceramic disk.
82-35-10/27174	Burned structure, 200 ft. north of house	One ceramic disk.
82-35-10/27177	Grave 2	Matt Inc, *var Moundville* jar with flat loop handles.
82-35-10/27178	Grave 2	Frog effigy jar with strap handles; six sherds.
82-35-10/27179	Grave 2	One ceramic bottle section (carafe neck?)
82-35-10/27180	Grave 2	Beaker with fine shell temper.
82-35-10/27181	Grave 2	Miniature bottle.
82-35-10/27182	Grave 2	Top knot fragment from human effigy hooded bottle.
82-35-10/27183	Grave 2	Two sandstone disks.
82-35-10/27184	Grave 2	One quartzite disk.
82-35-10/27188	Grave 4, low hill around Dr. Jarman's house	Small ceramic jar with scalloped rim.
82-35-10/27189	Grave 4, low hill around Dr. Jarman's house	Eight ceramic sherds.
82-35-10/27190	Grave 4, low hill around Dr. Jarman's house	Daub fragment.
82-35-10/27193	Grave 5, low hill around Dr. Jarman's house	Twenty-three bark strips under individual's arm.
82-35-10/27197.1	Grave 9, low hill around Dr. Jarman's house	One ceramic sherd.
82-35-10/27198	Grave 9, low hill around Dr. Jarman's house	Miniature ceramic jar.
82-35-10/27204	Grave 12, low hill around Dr. Jarman's house	Five marine shell beads.
82-35-10/27207	Grave 13, low hill around Dr. Jarman's house	Twenty-one ceramic sherds from stone-box floor.
82-35-10/27211	Grave 14, low hill around Dr. Jarman's house	Twenty ceramic sherds.
82-35-10/27214	Grave 15, low hill around Dr. Jarman's house	Burned limestone fragment.
82-35-10/27215	Grave 15, low hill around Dr. Jarman's house	Eight ceramic sherds.
82-35-10/27219	Grave 16, low hill around Dr. Jarman's house	Notched rim bowl.
82-35-10/27220	Grave 16, low hill around Dr. Jarman's house	Three ceramic sherds, one lithic debitage.
82-35-10/27227	Grave 19, low hill around Dr. Jarman's house	Notched rim bowl.
82-35-10/27228	Grave 19, low hill around Dr. Jarman's house	Unusual blank face bottle.
82-35-10/27230	Grave 20, low hill around Dr. Jarman's house	Five shell disc beads, one shell tubular bead.
82-35-10/27234	Grave 22, low hill around Dr. Jarman's house	One ceramic earplug.
82-35-10/27241	Grave 26, low hill around Dr. Jarman's house	Ceramic bottle.
82-35-10/27245	Grave 28, low hill around Dr. Jarman's house	Notched rim bowl.
82-35-10/27249*	Grave 30, low hill around Dr. Jarman's house	One ceramic bead.
82-35-10/27251	Grave 31, low hill around Dr. Jarman's house	Gourd effigy bowl with spout.
82-35-10/27252	Grave 31, low hill around Dr. Jarman's house	Burned cane fragments and one lithic flake.
82-35-10/27255.1	Grave 33, low hill around Dr. Jarman's house	Lithic debitage.
82-35-10/27260	Grave 36, low hill around Dr. Jarman's house	Celt made of Ft. Payne chert.
82-35-10/27263	Grave 38, low hill around Dr. Jarman's house	One polished deer mandible.
82-35-10/27265	Grave 39, low hill around Dr. Jarman's house	Ceramic bowl.
82-35-10/27271	Grave 3, stone graves south of house	Ceramic jar with strap and bifurcate lug handles.
82-35-10/27272	Grave 3, stone graves south of house	Ceramic jar with strap handles.
82-35-10/27276	Grave 4, stone graves south of house	Frog effigy jar with strap and bifurcate lug handles.
82-35-10/27277	Grave 4, stone graves south of house	Gourd-effigy bowl.
82-35-10/27280	Grave 4, stone graves south of house	Three marine shell earplugs.
82-35-10/27289	Grave 9, stone graves south of house	Twenty-five tubular shell beads.
82-35-10/27296	Grave 11, stone graves south of house	Beckwith Incised, frog effigy jar.
82-35-10/27297	Grave 11, stone graves south of house	Eleven ceramic sherds.
82-35-10/27298	Grave 11, stone graves south of house	Lithic debitage.
82-35-10/27299	Grave 11, stone graves south of house	Limestone fragment.
82-35-10/27300	Grave 11, stone graves south of house	Ovate knife made of local chert.
82-35-10/27301	Grave 11, stone graves south of house	Corner-notched dart point.
82-35-10/27302	Grave 11, stone graves south of house	Ground abrasive siltstone fragment.
82-35-10/27309	Grave 13, stone graves south of house	Ceramic bowl section, probable duck.
82-35-10/27321	Grave 17, stone graves south of house	Two ceramic sherds.
82-35-10/27323	Grave 18, stone graves south of house	Frog effigy jar with strap handles.
82-35-10/27327	Grave 19, stone graves south of house	Notched rim bowl.
82-35-10/27328*	Grave 19, stone graves south of house	Worked shell.
82-35-10/27332	Grave ??, stone graves south of house	Marine shell earplug.

Table 31. Inventory of Artifacts Acquired from the 1882 Putnam Excavation at Dr. Jarman's Farm. (continued)

Accession No.	Peabody Reference	Artifact Description
82-35-10/27337	Grave 24, stone graves south of house	Fish effigy vessel with suspension holes.
82-35-10/27338	Grave 24, stone graves south of house	Notched rim bowl with double spouts.
82-35-10/27339	Grave 24, stone graves south of house	Notched rim bowl.
82-35-10/27340	Grave 24, stone graves south of house	Ceramic jar with strap handles.
82-35-10/27341	Grave 24, stone graves south of house	Ceramic jar with suspension holes.
82-35-10/27345	Grave 25, stone graves south of house	Ceramic ear plug.
82-35-10/27346	Grave 25, stone graves south of house	Two lithic flakes, one Dover chert.
82-35-10/27350	Grave 27, stone graves south of house	Bone hairpin.
82-35-10/27354	Grave ??, stone graves south of house	Marine shell earplug.
82-35-10/27355	Grave 29, stone graves south of house	Owl effigy hooded bottle.
82-35-10/27356	Grave 29, stone graves south of house	Matthews Incised jar with strap handles.
82-35-10/27358	Grave 29, stone graves south of house	Marine shell earplug; two marine shell beads.
82-35-10/27361*	Grave 35, stone graves south of house	Notched rim bowl.
82-35-10/27362	Grave 35, stone graves south of house	Notched rim bowl.
82-35-10/27363	Grave 35, stone graves south of house	Sandstone disk.
82-35-10/27364	Grave 35, stone graves south of house	Astragalus cube (deer).
82-35-10/27367	Grave 36, stone graves south of house	Notched rim bowl.
82-35-10/27383	Grave 40, stone graves south of house	Frog effigy vessel with suspension holes.
82-35-10/27384	Grave 40, stone graves south of house	Notched rim bowl.
82-35-10/27385	Grave 40, stone graves south of house	Bone hairpin.
82-35-10/27386	Grave 40, stone graves south of house	Ceramic elbow pipe with incised lines.
82-35-10/27391	Grave 42, stone graves south of house	Notched rim bowl.
82-35-10/27392	Grave 42, stone graves south of house	Human effigy hooded bottle, female.
82-35-10/27393	Grave 42, stone graves south of house	Eight marine shell beads.
82-35-10/27401*	Grave 42, stone graves south of house	Nashville Style shell gorget.
82-35-10/27404	Grave 1, stone graves south of house	Ten ceramic sherds.
82-35-10/27406	Bottoms of stone graves	Large ceramic jar with bifurcate lugs (ceramic floor).
82-35-10/27407	Surface	Ovate knife made of Burlington chert.
82-35-10/27408	Surface	One dart point.

* = artifact not examined.

Bottles

Grave 2 on the low hill around the Jarman house contained five ceramic vessels. Among these vessels is the smallest bottle ever seen by the authors (Figure 106). This miniature bottle exhibits a slight carafe neck and flat base (PM 82-35-10/27181). Standing only 43.4 mm high, this shell-tempered vessel has a maximum body diameter of 32.2 mm and a base diameter of 15.6 mm. The exterior orifice diameter of 18.5 mm is only slightly greater than the interior orifice diameter of 14.4 mm.

Yet another vessel from Grave 2 was the body of a probable carafe-neck bottle (PM 82-35-10/27179). This Mississippi Plain bottle is missing a substantial portion of the neck but did display a dimpled base. The maximum body diameter measures 105 mm.

An unusual effigy bottle with a burnished exterior surface was recovered from Grave 19 on the low hill around the Jarman house (Figure 107). This Bell Plain vessel features a blank face on top of a plain globular body with a flat base (PM 82-35-10/27228). The bottle top displays an orifice constructed at an approximate 45-degree angle. This bottle measures 110 mm high, with a maximum body diameter of 110 mm and an interior orifice diameter of 23.5 mm.

Grave 26 on the low hill around the Jarman house yielded a small Bell Plain bottle (PM 82-35-10/27241). The artifact displays a cylindrical neck attached to a shouldered body with a flattened base. This bottle only measures 82 mm high, with an interior orifice diameter of 27.5 mm and base diameter of 42.2 mm.

Table 32. Inventory of Jarman Farm Artifacts Donated by Dr. Jarman to the Peabody Museum in 1882.

Accession No.	Peabody Reference	Artifact Description
82-41-10/27409	About the stone graves	Nine dart points.
82-41-10/27410	About the stone graves	Three dart points.
82-41-10/27411	About the stone graves	Four dart points.
82-41-10/27412	About the stone graves	Two dart points.
82-41-10/27413	About the stone graves	One dart point.
82-41-10/27414	About the stone graves	Two lanceolate dart points.
82-41-10/27415	About the stone graves	One dart point.
82-41-10/27416	About the stone graves	Two dart points.
82-41-10/27417	About the stone graves	One dart point.
82-41-10/27418	About the stone graves	One dart point.
82-41-10/27419	About the stone graves	Three dart points.
82-41-10/27420	About the stone graves	Two dart points.
82-41-10/27421*	About the stone graves	“Stone point”
82-41-10/27422*	About the stone graves	“Stone point”
82-41-10/27423	About the stone graves	One Madison arrow point; one Sand Mountain arrow point.
82-41-10/27424	About the stone graves	One dart point.
82-41-10/27425	About the stone graves	One dart point.
82-41-10/27426	About the stone graves	One dart point.
82-41-10/27427	About the stone graves	One dart point.
82-41-10/27428	About the stone graves	One dart point.
82-41-10/27429	About the stone graves	Four dart points reworked into drills.
82-41-10/27430	About the stone graves	Two thin bifaces (local chert).
82-41-10/27431	About the stone graves	One thick biface (local chert).
82-41-10/27432	About the stone graves	One thin biface (local chert).
82-41-10/27433	About the stone graves	One thin biface (local chert).
82-41-10/27434	About the stone graves	Lithic debitage, one dart point.
82-41-10/27435	About the stone graves	One tabular chert core.
82-41-10/27436	About the stone graves	Fossil coral fragment.
82-41-10/27438	About the stone graves	One chert cobble hammerstone.
82-41-10/27439	About the stone graves	One hematite cobble hammerstone.
82-41-10/27442	About the stone graves	One greenstone celt.
82-41-10/27443	About the stone graves	One limestone celt.
82-41-10/27444	About the stone graves	One chisel fragment (Dover chert).
82-41-10/27445	About the stone graves	One limestone celt.
82-41-10/27446*	About the stone graves	“Stone celt, broken”
82-41-10/27447	About the stone graves	Two celt fragments (local chert).
82-41-10/27448	About the stone graves	Five metate fragments, one ground limestone fragment.
82-41-10/27449	About the stone graves	Four sandstone abraders.
82-41-10/27450	About the stone graves	Four sandstone disks.
82-41-10/27452*	About the stone graves	“Object of pottery”
82-41-10/27453	About the stone graves	One ceramic human effigy head (riveted in back).
82-41-10/27454	About the stone graves	One sandstone animal effigy fragment (eroded).
82-41-10/27456	About the stone graves	One limestone marble.

* = artifact not examined.

Table 33. Inventory of Artifacts Acquired from the 1882 Woods Excavation at Dr. Jarman's Farm.

Accession No.	Reference	Artifact Description
83-68-10/1971	Grave 2	Small Bell Plain fish effigy bowl.
83-68-10/1973	Grave 2a, at foot	Scalloped rim, Mississippi Plain jar with paired suspension holes.
83-68-10/1974	Grave 2a	Turkey bone awl.
83-68-10/1982	Grave 4a	Two stone box slabs, dressed.
83-68-10/1983	Grave 5	One Bell Plain jar section.
83-68-10/1984	Grave 5	One ceramic trowel, mushroom style.
83-68-10/1985	Grave 5	One ceramic trowel, mushroom style with bifurcate handle.
83-68-10/1986	Grave 5	One cannel coal object.
83-68-10/1989	Grave 6	Matthews Incised *variety Matthews* frog effigy jar with strap handles, lobed, Mississippi Plain paste.
83-68-10/1990	Grave 6	Bell Plain bowl with single lug handles.
83-68-10/1991	Grave 6	Bell Plain notched rim bowl with two spouts.
83-68-10/1994	Near Grave 6	Charred wood.
83-68-10/1999	Grave 8	Discoidal, possibly Mill Creek chert.
83-68-10/2000	Grave 9	Two lithic flakes.
83-68-10/2003	Surface	One Dover chert chisel fragment; one Dover chert ovate knife fragment.
83-68-10/2004	Surface	One sandstone disk.

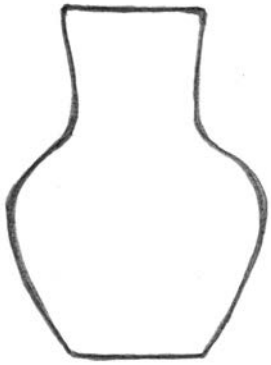

Figure 106. Author sketch of miniature jar (PM 82-35-10/27181) recovered from Grave 2 on low hill around the Jarman house, 1882 Putnam excavation.

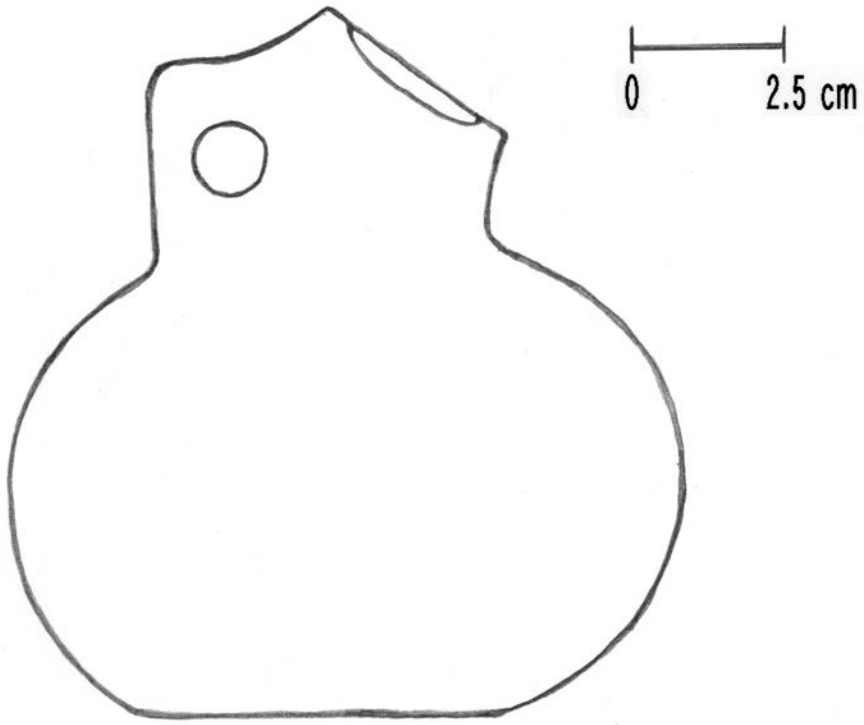

Figure 107. Author sketch of unusual bottle (PM 82-35-10/27228) recovered from Grave 19 on low hill around the Jarman house, 1882 Putnam excavation.

Grave 29 south of the Jarman house contained an owl effigy hooded bottle (PM 82-35-10/27355). This bottle is made from a fine-shell temper paste comparable to Bell Plain. Although the exterior surface is now plain, this bottle was likely negative painted when originally made. The bottle head displays a beak nose and subtle ears or tufts (Figure 108). However, the bottle body is not full-figured but rather lobed (four) with a flat base. The maximum height of this vessel is 151 mm, with an interior orifice diameter of 31.4 mm.

A human effigy hooded bottle (PM 82-35-10/27392) was found in Grave 42 south of the Jarman house (Figure 109). The fine-shell temper paste is comparable to Bell Plain. This classic specimen represents a hunchback female sitting with appliqué arms bent across the abdomen. The facial features are clearly visible and well formed. The earlobes are rather large and perforated. Nipples protrude above a concave abdomen, and vertebrae visibly stick out from the hunchbacked body. The bottle base is somewhat rounded with a flat bottom. This bottle measures 150 mm in height. The exterior orifice diameter is 31 mm, and the interior orifice diameter is 23 mm.

Jars

The burned structure 200 feet north of the Jarman house yielded a Mississippi Plain jar with a direct rim (PM 82-35-10/27172). This large, strap-handled vessel had been broken into many pieces.

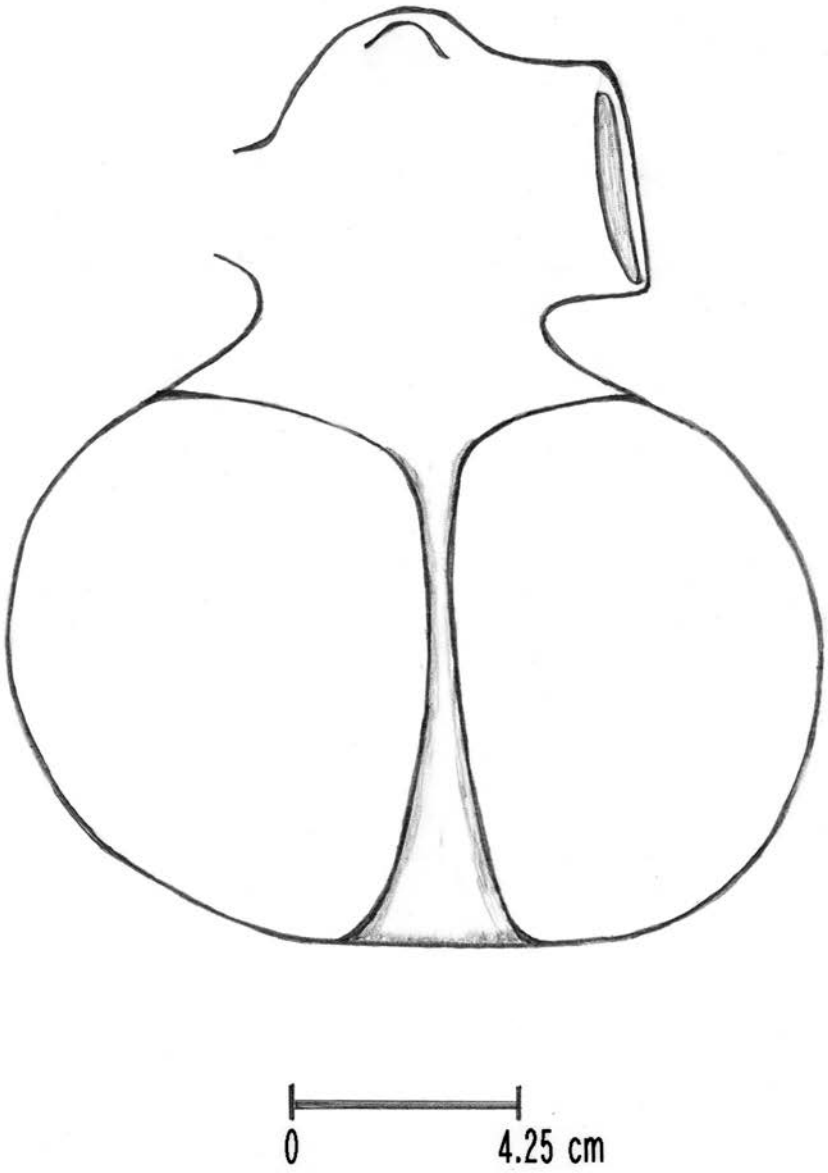

Figure 108. Author sketch of blank-face owl effigy bottle (PM 82-35-10/27355) recovered from Grave 29 south of the Jarman house, 1882 Putnam excavation.

Figure 109. Author sketch of human effigy hooded bottle (PM 82-35-10/27392) recovered from Grave 42 south of the Jarman house, 1882 Putnam excavation.

Two jars were among the ceramic vessels retrieved from Grave 2 on the low hill around the Jarman house. One jar comprises a Matthews Incised, *variety Moundville* variant with flattened loop handles (PM 82-35-10/27177). The exterior decoration displays short vertical incisions extending above a single arch. Flattened knobs are visible along the top and side of the handles. Measuring 110 mm high, the maximum body diameter of this shell-tempered vessel is about 150 mm and the maximum exterior orifice diameter is 132 mm. The second jar is a frog effigy (PM 82-35-10/27178) with strap handles attached to the direct rim. This shell-tempered vessel measures 74 mm high, with a body diameter of 100 mm and an exterior orifice diameter of 75 mm.

Grave 4 on the low hill around the Jarman house contained a small, shell-tempered jar with a scalloped rim (PM 82-35-10/27188). This vessel measures 65 mm in height, 84.3 mm in maximum body diameter, and 38 mm in basal diameter. The interior orifice diameter is 68.6 mm.

A very small effigy jar (probably frog) was found in Grave 9 on the low hill around the Jarman house (PM 82-35-10/27198). The interior orifice diameter of this shell-tempered vessel measures 45 mm.

Grave 3 south of the Jarman house yielded two small Mississippi Plain jars. One jar is slightly lobed and displays strap as well as bifurcate lug handles (PM 82-35-10/27271). This vessel measures 90 mm tall with a maximum body diameter of 120 mm and an interior orifice diameter of 81 mm. The second jar is much smaller and exhibits strap handles (PM 82-35-10/27272). This particular specimen measures 59.7 mm high with a maximum body diameter of 79.9 mm. The interior orifice diameter is 64.7 mm.

A frog effigy jar (PM 82-35-10/27276) was recovered from Grave 4 south of the Jarman house. Strap handles and miniature bifurcate lug handles are present on the rim of this shell-tempered vessel. The jar body diameter measures 115.5 mm with an interior orifice diameter of 85.3 mm.

A frog effigy jar with strap handles (82-35-10/27296) was also found in Grave 11 south of the Jarman house. This Beckwith Incised specimen measures 80 mm high and 120 mm in maximum diameter. The interior orifice diameter is 80 mm.

Grave 18 south of the Jarman house yielded another frog effigy jar with strap handles (PM 82-35-10/27323). Vertical incised lines are visible along each handle top near the vessel's flattened lip. The height of this shell-tempered jar measures 90 mm. The maximum body diameter is 130 mm, with an exterior orifice diameter of 93.5 mm.

Three of the five ceramic vessels found in Grave 24 south of the Jarman house were jars. One Bell Plain specimen is a fish effigy jar (PM 82-35-10/27337) with a double pair of suspension holes present in the neck just below the lip. This jar measures 89 mm high and 169 mm from nose to tail, with an exterior orifice diameter of 87 mm and an interior orifice diameter of 77 mm (Figure 110). The second jar is a Mississippi Plain jar with strap handles (PM 82-35-10/27340) measuring 78 mm high and 99.9 mm in maximum body diameter. The third jar comprises a Mississippi Plain vessel with a somewhat globular body and flattened base. A double pair of suspension holes are present in the direct rim just below the lip (PM 82-35-10/27341). The interior orifice diameter of this jar measures 62 mm, and the maximum body diameter measures 98.7 mm.

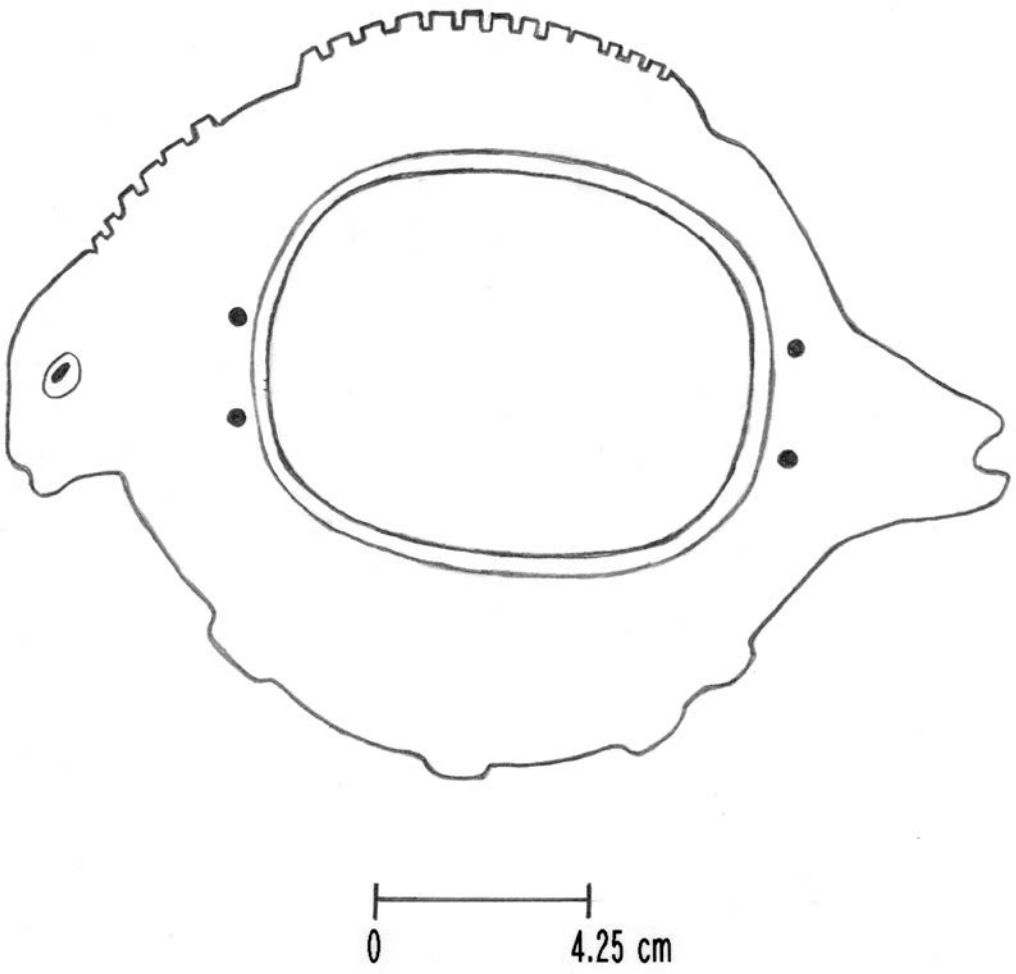

Figure 110. Author sketch of fish effigy jar (PM 82-35-10/27337) recovered from Grave 24 south of the Jarman house, 1882 Putnam excavation.

Grave 29 south of the Jarman house yielded a Matthews Incised, *variety Matthews* jar with strap handles (PM 82-35-10/27356). Interestingly, the single incised line on this vessel is more meandering than that observed on other *variety Matthews* specimens. In addition, the strap handles are somewhat triangular in plan-view. This rather small jar measures 78 mm high and 116 mm in body diameter, with an interior orifice diameter of 81.5 mm.

Among the artifacts retrieved from Grave 40 south of the Jarman house was a frog effigy jar with a well-formed face and appliqué legs (PM 82-35-10/27383). Paired suspension holes are present on opposing sides of the slightly inverted rim (Figure 111). This Bell Plain vessel measures 74 mm high and 129.5 mm long (nose to anus), with an interior orifice diameter of 72.5 mm.

A large Mississippi Plain jar with lug handles (PM 82-35-27406) was broken and used to line the floor of a stone box grave. Unfortunately, the available notes do not indicate which grave these sherds came from.

Grave 2a exposed during the 1882 Woods excavation contained a shell-tempered jar with a scalloped rim (PM 83-68-10/31973). Paired suspension holes are present on opposing sides of the jar rim (Figure 112). The vessel stands 102 mm high with a maximum body diameter of 131 cm. The interior orifice diameter measures 80.5 mm.

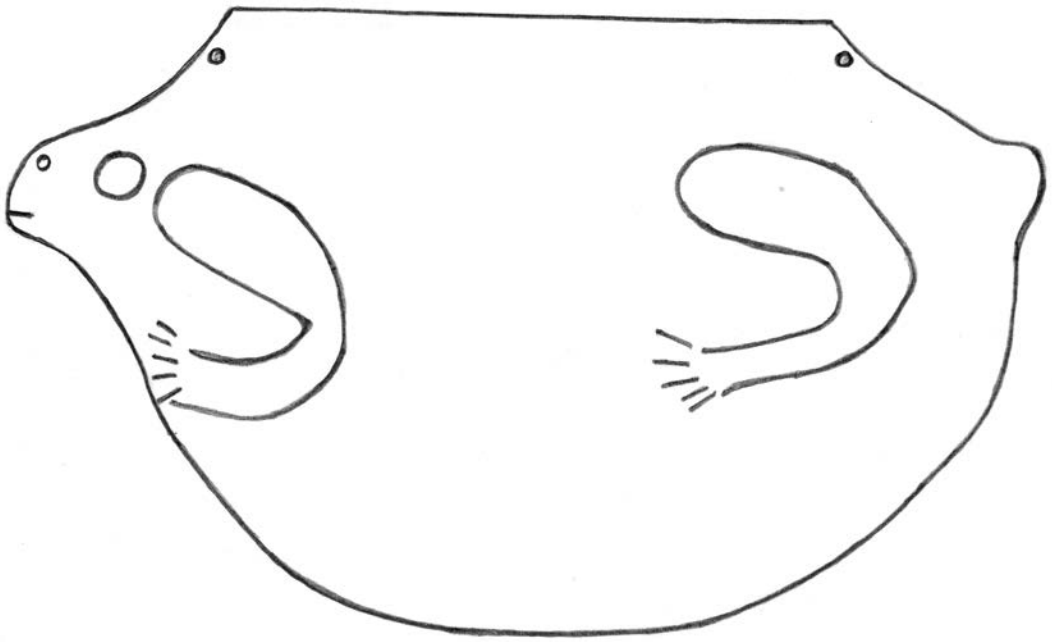

Figure 111. Author sketch of frog effigy jar (PM 82-35-10/27383) recovered from Grave 40 south of the Jarman house, 1882 Putnam excavation.

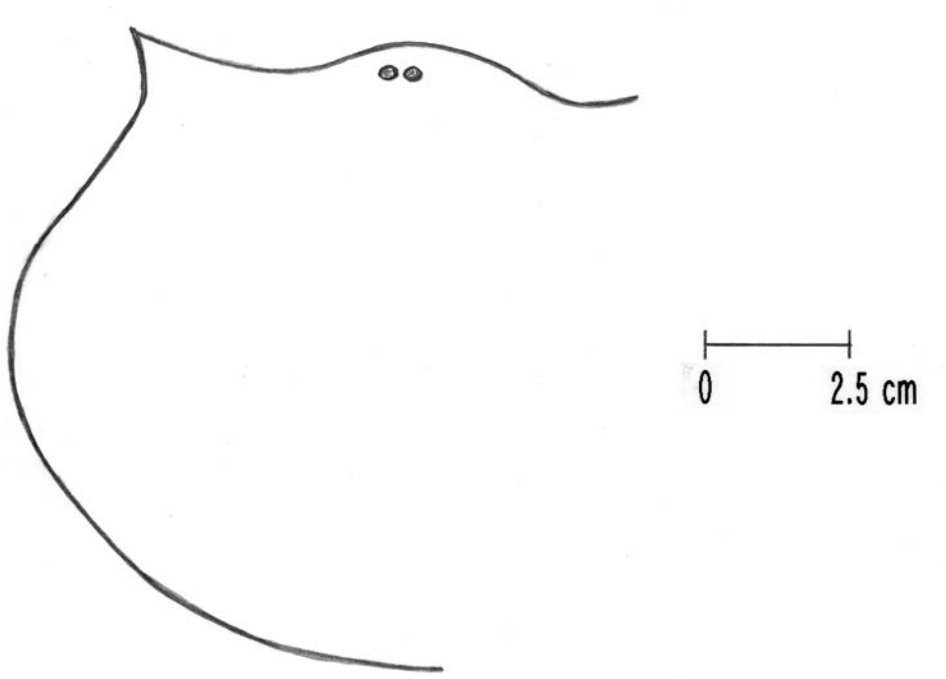

Figure 112. Author sketch of scalloped rim jar (PM 83-68-10/31973) recovered from Grave 2 during the 1882 Woods excavation.

One Matthews Incised, *variety Matthews* jar made from coarse-shell temper paste (PM 83-68-10/31989) was recovered from Grave 6 during the 1882 Woods work. This (six) lobed vessel exhibits a single incised line and strap handles. Measuring 115 mm high, this jar has a maximum body diameter of 139 mm, an exterior orifice diameter of 114 mm, and an interior orifice diameter of 107 mm.

Bowls

The burned structure located 200 feet north of the Jarman house yielded a Bell Plain bowl with a notched rim appliqué (PM 82-35-10/27171). This vessel measures 68 mm high with an interior orifice diameter of 141 mm and a base diameter of 69 mm.

A shell-tempered bowl with a notched rim appliqué (PM 82-35-10/27219) was recovered from Grave 16 on the low hill around the Jarman house. This rather small vessel measures 50 mm high, with an interior orifice diameter of 126.4 mm and a base diameter of 62 mm.

Grave 19 on the low hill around the Jarman house had a small Bell Plain bowl with a notched rim appliqué (PM 82-35-10/27227). Vessel height is 53 mm. Interior orifice diameter and base diameter measures 119 mm and 55.5 mm, respectively.

One Bell Plain bowl with a notched rim appliqué (PM 82-35-10/27245) was found in Grave 28 on the low hill around the Jarman house. Measuring 57 mm high, this vessel has an interior orifice diameter of 122.1 mm and a base diameter of 69 mm.

Grave 31 on the low hill around the Jarman house had a gourd effigy bowl (PM 82-35-10/27251). Opposite the single spout is a protruding stem (Figure 113). The exterior surface is burnished. Standing 48 mm high, this Bell Plain vessel measures 136 mm from stem to spout. The interior orifice diameter perpendicular to the spout is 107 mm.

A Mississippi Plain bowl (PM 82-35-10/27265) had been buried with the child in Grave 39 on the low hill around the Jarman house. This small, simple bowl stands 69 mm high with an interior orifice diameter of 124.5 mm.

Grave 4 south of the Jarman house yielded a gourd effigy bowl (PM 82-35-10/27277). This shell-tempered bowl measures 163 mm long, 144 mm maximum body diameter, and 76 mm high (Figure 114). Slight indentations are visible along opposing ends of this bowl.

The somewhat oval bowl section of a rim-rider effigy vessel (PM 82-35-10/27309) was recovered in Grave 13 south of the Jarman house. This Bell Plain vessel, missing the head and tail, likely represents a duck. Interior orifice measurements are 104 mm by 91.5 mm. Vessel height is 50 cm.

Grave 19 south of the Jarman house contained a Bell Plain bowl with a notched rim appliqué (PM 82-35-10/27327). This bowl measures 53 mm high, with an interior orifice diameter of 135 mm and a base diameter of 76 mm.

Two of the five pottery vessels retrieved from Grave 24 south of the Jarman house represent bowls. One shell-tempered bowl comprises a double spout vessel with a notched rim appliqué (PM 82-35-10/27338). This vessel measures 42 mm high and 109 mm spout to spout (Figure 115). The interior orifice diameter perpendicular to the spouts is 78 mm. The second vessel is a Bell Plain bowl with notched rim appliqué (PM 82-35-10/27339). This very small bowl measures 35 mm high, with an interior orifice diameter of 78.5 mm and a base diameter of 45 mm.

Two bowls with notched rim appliqués were recovered from Grave 35 south of the Jarman house. One Bell Plain vessel (PM 82-35-10/27362) measures 57 mm high, with an interior orifice diameter of 142 mm and a base diameter of 71 mm. The authors did not examine the other vessel.

Grave 36 south of the Jarman house contained a Bell Plain bowl with a notched rim appliqué (PM 82-35-10/27367). This burnished vessel measures 63 mm high, and has an interior orifice diameter of 134 mm and a base diameter of 71 mm.

An artifact retrieved from Grave 40 south of the Jarman house was a small Bell Plain bowl with a notched rim appliqué (PM 82-35-10/27384). This particular vessel measures 43 mm high, with an interior orifice diameter of 100 mm and a base diameter of 44.5 mm.

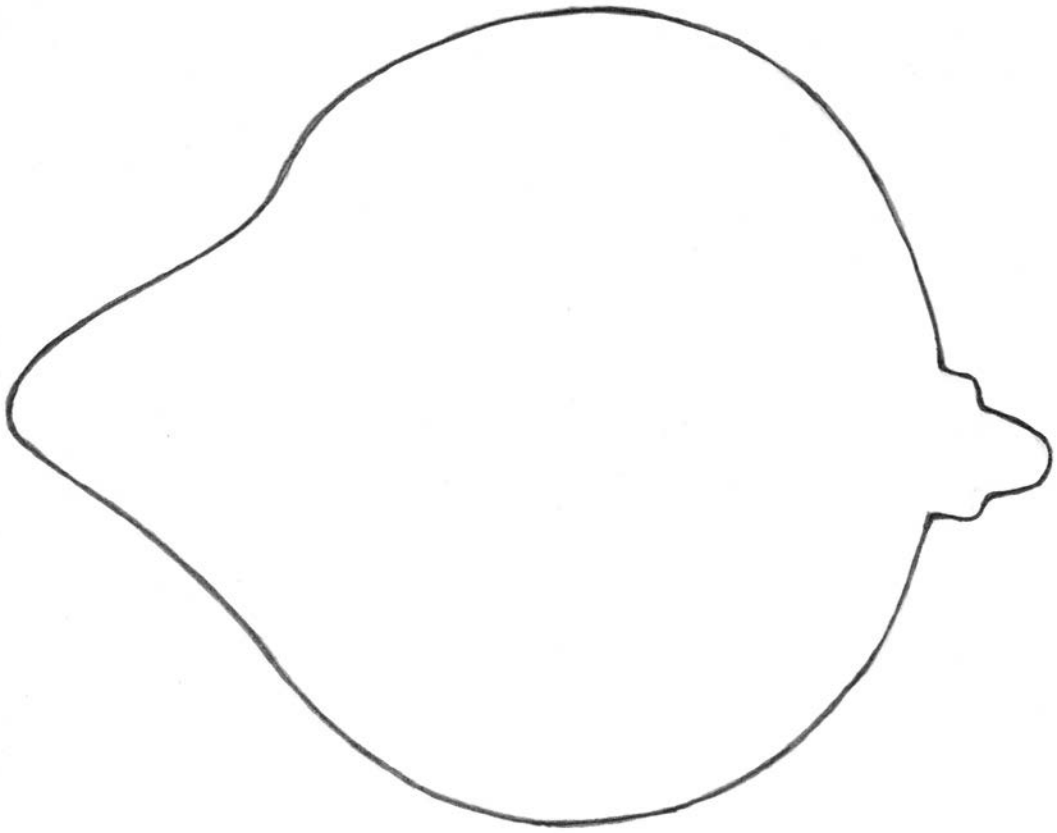

Figure 113. Author sketch of gourd effigy bowl (PM 82-35-10/27251) recovered from Grave 31 on low hill around the Jarman house, 1882 Putnam excavation.

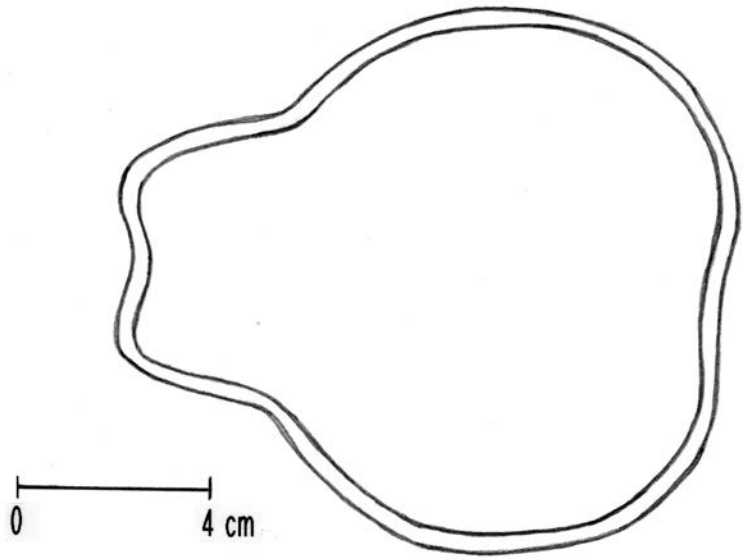

Figure 114. Author sketch of gourd effigy bowl (PM 82-35-10/27277) recovered from Grave 4 south of the Jarman house, 1882 Putnam excavation.

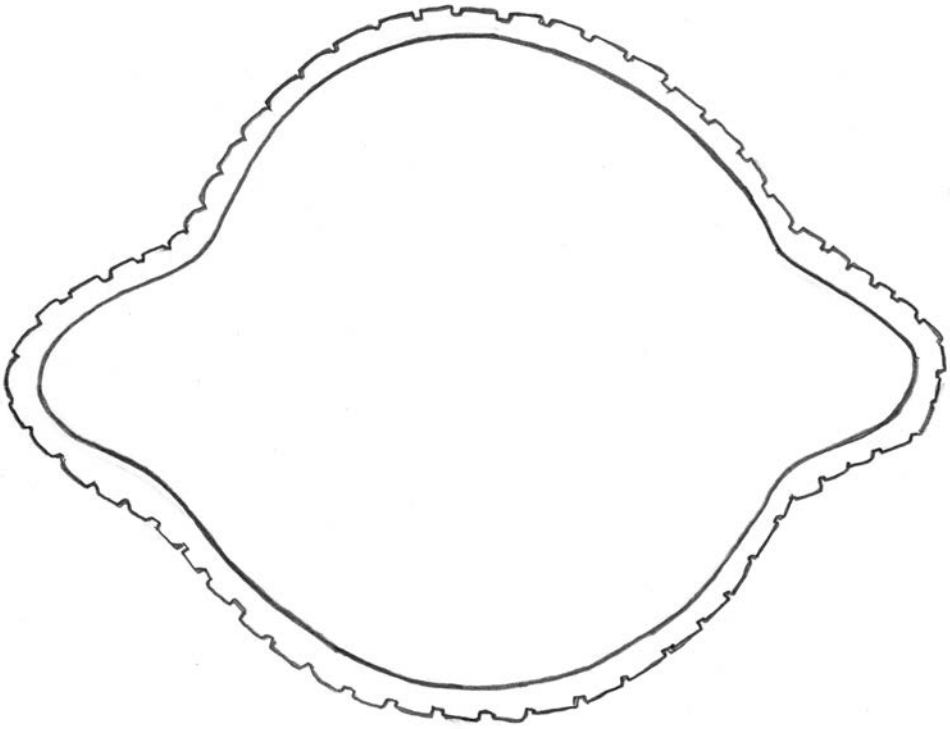

Figure 115. Author sketch of notched rim bowl with double spout (PM 82-35-10/27338) recovered from Grave 24 south of the Jarman house, 1882 Putnam excavation.

One shell temper bowl with a notched rim appliqué (PM 82-35-10/27391) was found in Grave 42 south of the Jarman house. Measuring 50 mm high, this small vessel has an interior orifice diameter of 112.5 mm and a base diameter of 60 mm.

The 1882 Woods excavation recovered a fish effigy bowl (PM 83-68-10/31971) from Grave 2 (Figure 116). Paired suspension holes are present along opposing sides of the incurvate bowl rim. This shell-tempered vessel measures 80 mm high, 118 mm in body diameter, and 63 mm wide at the flat base. The interior orifice diameter is 74.5 mm.

George Woods found a Bell Plain bowl with single lug handles (PM 83-68-10/31990) in Grave 6. This simple hemispherical specimen measures 68 mm high, with an interior orifice diameter of 140 mm.

George Woods also retrieved a Bell Plain bowl with opposing spouts and a notched rim appliqué (PM 83-68-10/31991) from Grave 6. This slightly oval bowl displays a flat base. Measuring 55 mm high, this vessel has a maximum length of 138 mm (spout to spout) and a maximum body diameter of 110 mm.

Beaker

A beaker comprised one of the five ceramic artifacts recovered from Grave 2 on the low hill around the Jarman house (Figure 117). This Bell Plain vessel (PM 82-35-

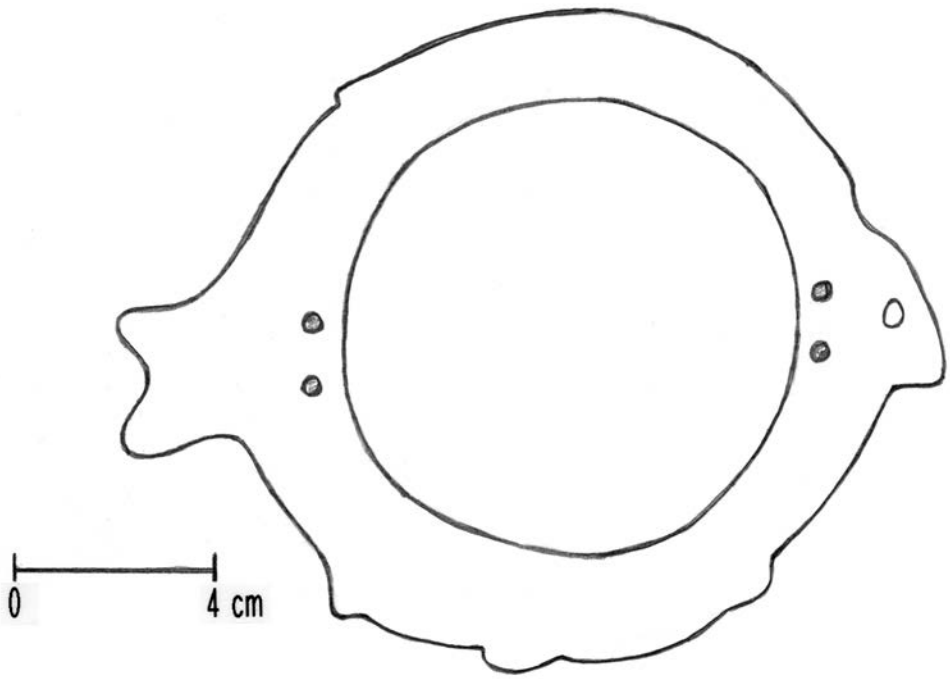

Figure 116. Author sketch of fish effigy bowl (PM 83-68-10/31971) recovered from Grave 2 during the 1882 Woods excavation.

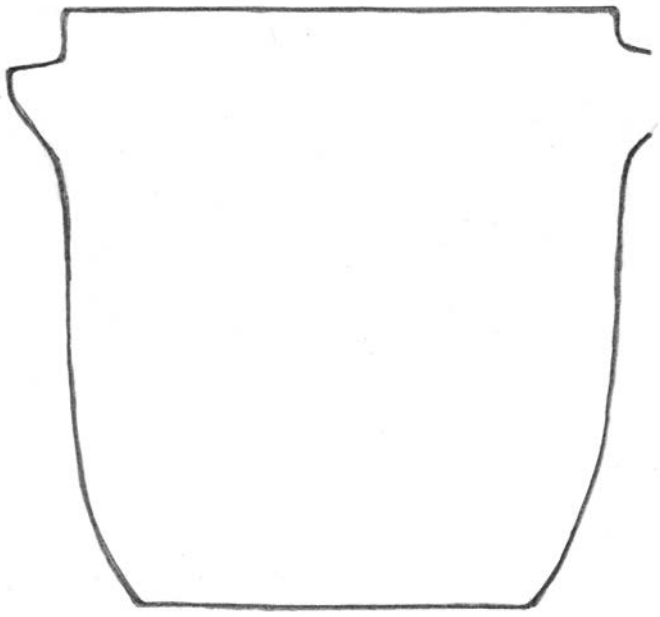

Figure 117. Author sketch of beaker (PM 82-35-10/27180) recovered from Grave 2 on low hill around the Jarman house, 1882 Putnam excavation.

10/27180) is somewhat cylindrical in appearance with a flat base and opposing lug handles just below the rim. The maximum body diameter measures 70 mm, with an interior orifice diameter of 62 mm and a base diameter of 45 mm. Both of the single lug handles have been perforated. The presence of this artifact is particularly interesting since beakers are not common in the Middle Cumberland study area.

Trowels

George Woods recovered two ceramic trowels from Grave 5 excavated in 1882 (Figure 118). The first implement (PM 83-68-10/31984) is the mushroom style with a pestle-like handle. This trowel measures 81 mm high with a maximum body diameter of 85 mm. The second trowel is also the mushroom style but displays a bifurcate handle (PM 83-68-10/31985). This particular specimen measures 65 mm in height and 90 cm in body diameter.

Disks

Excavation of the burned structure located 200 feet north of the Jarman house uncovered three ceramic disks. One specimen (PM 82-35-10/27169) has been created from a (plain) pan rim sherd. This somewhat oval artifact measures 69.4 mm by 62.6 mm, and is very thick (22.5 mm). A second disk (PM 82-35-10/27173) displays a plain surface and is much smaller, measuring 39.7 mm in diameter and 7.2 mm thick. The third disk (PM 82-35-10/27174) also exhibits a plain surface, and measures 29.0 mm in diameter and 8.5 mm thick.

Earplugs

Grave 22 on the low hill around the Jarman house yielded a dumbbell-shaped earplug (PM 82-35-10/27234) measuring 22.1 mm long. The maximum diameter of this rather small specimen is 14.5 mm.

One ceramic earplug (PM 82-35-10/27345), measuring 22.2 mm long and 15.5 mm in maximum width, was found with the adult male buried in Grave 25 south of the Jarman house. This dumbbell-shaped specimen does not have a center hole.

Pipe

One ceramic elbow pipe was found in Grave 40 south of the Jarman house (Figure 119). This artifact (PM 82-35-10/27386) has a maximum length of 82.6 mm, and measures 47.6 mm in height. The fractured bowl is flared and measures 38 mm in maximum diameter, with an interior orifice diameter of 27 mm. The stem measures 31 mm in maximum diameter with an interior orifice diameter of 14 mm. This pipe is decorated with incised lines parallel to the body. Another three incised lines are perpendicular to the body near the pipe center.

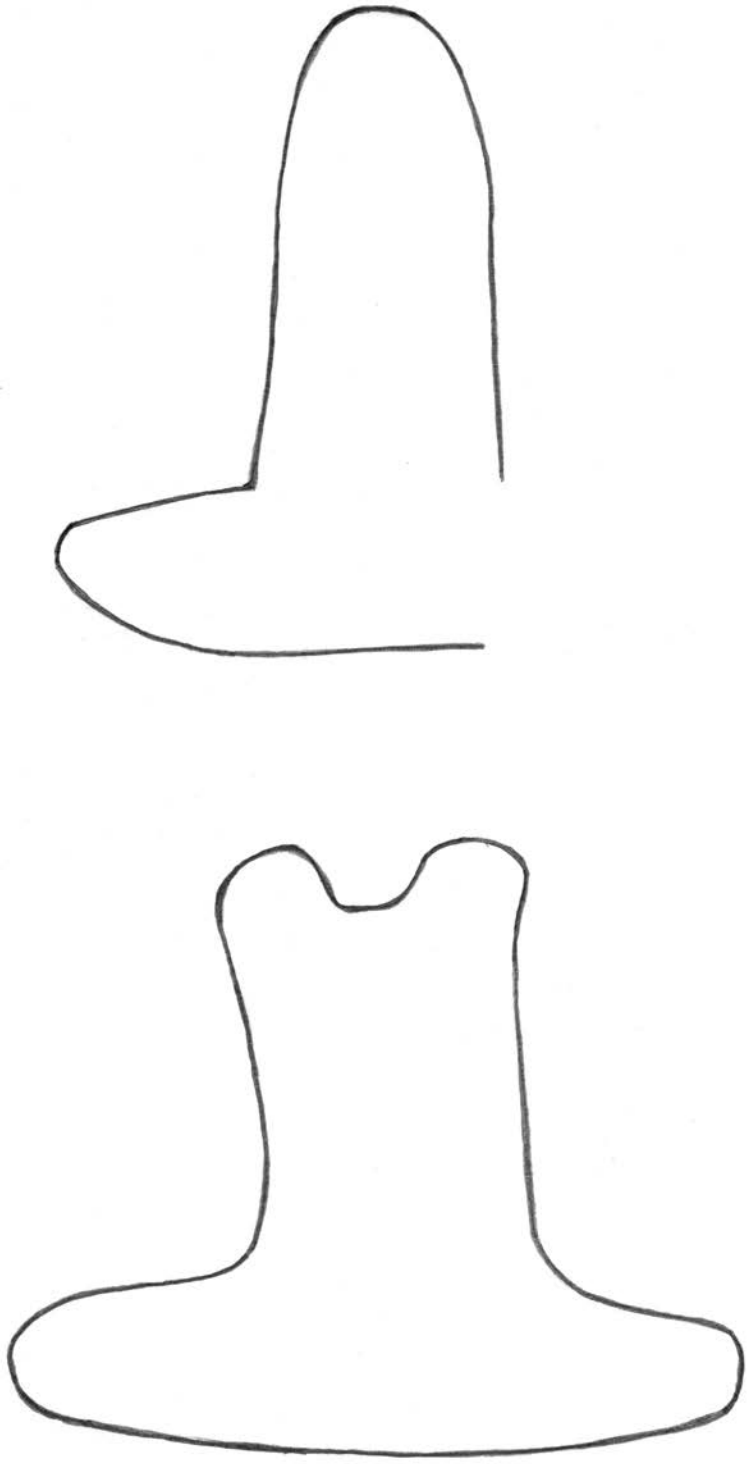

Figure 118. Author sketches of ceramic trowels recovered from Grave 5 during the 1882 Woods excavation. Top: PM 83-68-10/31984. Bottom: PM 83-68-10/31985.

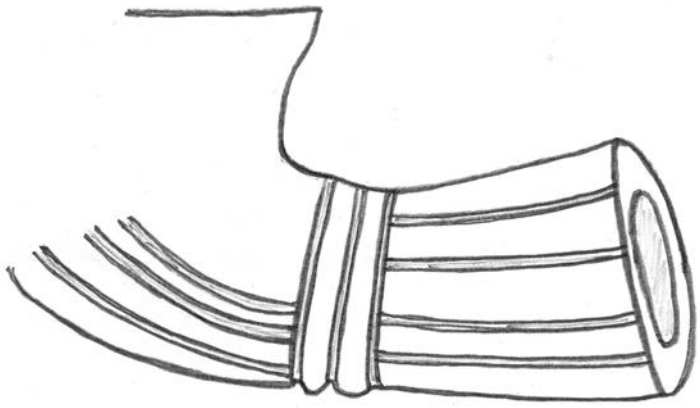

Figure 119. Author sketch of ceramic pipe (PM 82-35-10/27386) recovered from Grave 40 south of the Jarman house, 1882 Putnam excavation.

Lithic Artifacts

This section contains descriptions of selected lithic artifacts from the Peabody Museum collection, including two arrow points, three ovate knives, two chisels, six celts, and 11 disks. Knapping by-products and debris (such as bifaces, flakes, and blocky debris) are not included in this section.

Dart Points

Numerous dart points and point fragments were present in the Jarman Farm assemblage. However, these items were examined in an expedient manner due to time priorities. Among the established types observed within this sample were Adena, Big Sandy, Cotaco Creek, Kirk Corner Notched, Ledbetter, Little Bear Creek, Morrow Mountain, and Pickwick.

Arrow Points

Among the projectile point sample collected by Dr. Jarman from the site surface were two complete arrow points (PM 82-41-10/27423). One specimen is a Madison point of local chert, measuring 34.1 mm long, 14.8 mm wide, and 5.4 mm thick. The second point, also made of local chert, is a Sand Mountain. This serrated artifact measures 25.2 mm long, 18.8 mm wide, and 4.7 mm thick

Ovate Knives

George Woods retrieved an ovate knife fragment (PM 83-68-10/32003) from the site surface. This artifact is made of Dover chert.

An ovate knife (PM 82-35-10/27300) was found with Grave 11 south of the Jarman house. This specimen is made of locally available chert. The knife measures 189.7 mm long, 45.9 mm wide, and has a maximum thickness of 10.8 mm.

One very interesting find made by Putnam from the site surface was an ovate knife made of non-local Burlington chert (PM 82-35-10/27407). This item measures 122.1 mm long, 38.1 mm wide, and 7.8 mm thick.

Chisels

Two Dover chert chisel fragments were collected from the site surface. George Woods acquired one of these chisels (PM 83-68-10/32003), with the other found by Dr. Jarman (PM 82-41-10/27444).

Celts

Grave 36 on the low hill around the Jarman house yielded one highly polished celt (PM 82-35-10/27260). Made of local Ft. Payne chert, this artifact measures 203.5 mm long, 69.4 mm wide, and 43.7 mm thick.

Dr. Jarman collected a number of celts from the Jarman Farm site surface. Two polished celts (both PM 82-41-10/27447) are made from locally available cherts. One large specimen, despite missing the butt end, still measures 140.7 mm long. This particular celt also measures 71.7 mm wide and 39.5 mm thick. The second celt is relatively complete except for the bit end, and measures 131.2 mm long, 60.0 mm wide, and 39.7 mm thick.

A third celt recovered by Dr. Jarman was made of greenstone (PM 82-41-10/27442). This item measures 120.8 mm long, 64.9 mm wide, and 33.5 mm thick. The convex bit end is highly polished, yet the butt end displays extensive refurbishing activity.

Yet another celt collected by Dr. Jarman was made of limestone (PM 82-41-10/27443). This artifact is much smaller and less polished than the previously mentioned specimens, measuring 66.5 mm long, 42.4 mm wide, and 28.2 mm thick.

The fifth celt picked up by Dr. Jarman was a larger limestone specimen (PM 82-41-10/27445) measuring 128.8 mm long, 63.8 mm wide, and 43.4 mm thick.

Discoidal

George Woods recovered a polished discoidal (PM 83-68-10/31999) from Grave 8. The non-local material used to make this artifact appears to be Mill Creek chert. This circular item displays an oval cross-section, and measures 100.4 mm in diameter and 46.8 mm thick.

Disks

Among the items found in the burned structure located 200 feet north of the Jarman house was a disk of abrasive siltstone (PM 82-35-10/27169). This disk has a diameter of 50.4 mm and a maximum thickness of 17.6 mm.

Also found in the burned structure was a disk made of limestone (PM 82-35-10/27168). This particular artifact exhibits an irregular plan-view, but measures roughly 44.3 mm in diameter and 19.9 mm thick.

Dr. Jarman collected four (abrasive siltstone) disks (PM 82-41-10/27450) from the site surface. The size of these specimens ranges between 31.2 mm to 54.0 mm in diameter, and 7.6 mm to 12.7 mm thick.

Putnam's exploration of Grave 2 on the low hill around the Jarman house uncovered two disks of abrasive siltstone. One specimen, measuring 48.5 mm in diameter and 11.8 mm thick, displays two incised lines crossing the disk's center (PM 82-35-10/27183). A second artifact measures 45.6 mm in diameter and 21.3 mm thick (PM 82-35-10/27183).

A quartzite, or possibly very compact sandstone (abrasive siltstone?), disk (PM 82-35-10/27184) was also found in Grave 2 on the low hill around the Jarman house. This circular artifact has a slightly bi-convex cross-section. The disk measures 39.1 mm in diameter, with a maximum thickness of 16.8 mm.

Grave 35 south of the Jarman house yielded an abrasive siltstone disk (PM 82-35-10/27363) measuring 36.9 mm in diameter and 15.5 mm thick.

George Woods recovered an abrasive siltstone disk (PM 83-68-10/32004) from the site surface. This disk measures 29.4 mm in diameter and 10.3 mm thick.

Sphere

Dr. Jarman collected one limestone sphere (PM 82-41-10/27456) from the site surface. This item has a maximum diameter of 16.6 mm.

Effigy

Dr. Jarman collected a ground (abrasive) siltstone effigy fragment (PM 82-41-10/27454) from the site surface. This eroded item represents the head of an unidentified animal (possibly a bear, dog, or opossum).

Metate

Dr. Jarman donated fragments of an (abrasive) siltstone metate (PM 82-41-10/-27448) recovered from the site surface to the Peabody Museum.

Abraders

Four (abrasive) siltstone abraders (PM 82-35-10/27449) were collected by Dr. Jarman from the site surface and donated to the Peabody Museum.

Hammerstones

One limestone hammerstone (PM 82-35-10/27166) came from the burned structure 200 feet north of the Jarman house.

Dr. Jarman retrieved a battered hematite cobble (PM 82-41-10/27439) from the site surface. This spherical object has a diameter of 65 mm.

Shell Artifacts

Earplugs

A marine shell earplug (PM 82-35-10/27280) was found in Grave 4 south of the Jarman house. This dumbbell-shaped item exhibits a hole drilled through its center. The length of this specimen is 20.6 mm, and the maximum width measures 13.2 mm.

A grave south of the Jarman house (probably Grave 22) contained one marine shell earplug (PM 82-35-10/27332). This dumbbell-shaped earplug measures 22.2 mm long, with a maximum width of 15.4 mm. A hole has been drilled through the center of this artifact.

One small marine shell earplug (PM 82-35-10/27358) was recovered from Grave 29 south of the Jarman house. This artifact has no central drilled hole, and measures 14.3 mm long with a maximum diameter of 9.8 mm.

Another undrilled earplug of marine shell (PM 82-35-10/27354) was retrieved from an unknown grave (possibly Grave 29) south of the Jarman house. This dumbbell-shaped artifact measures 19.6 mm long with a maximum width of nearly 13 mm.

Beads

Grave 12 on the low hill around the Jarman house yielded five small shell beads (PM 82-35-10/27204). The origin of these artifacts (marine or freshwater shell) could not be determined.

A total of six shell beads (PM 82-35-27230) were recovered from Grave 20 on the low hill around the Jarman house. Five specimens comprise disc beads measuring 7.2 mm in diameter and 2.5 mm thick. The sixth item is a tubular bead that measures 10.9 mm long and 6.9 mm thick. The origin of these items (marine or freshwater shell) is unknown.

Grave 9 south of the Jarman house yielded 25 small tubular shell beads (PM 82-35-10/27289). These beads generally measure 11.3 mm in length and 6.3 mm in diameter. Whether or not these items derive from marine or freshwater shell has yet to be determined.

Grave 20 south of the Jarman house contained two shell beads (PM 82-35-10/27358). One bead is disk-shaped and made of marine shell. This particular bead measures 21.0 mm in diameter and 3.0 mm thick. The second bead is much smaller (7.6 mm diameter and 4.8 mm thick) and possibly made of marine shell.

Eight marine shell beads (PM 82-35-10/27393) were recovered from Grave 42 south of the Jarman house.

Gorget

One Nashville style marine shell gorget (PM 82-35-10/27401) was recovered from an infant stone-box grave (Grave 42) on the low hill around the Jarman house. This specimen displays a scalloped border with thirteen ovoids. Two large, irregular-shaped suspension holes occur in the center of one ovoid. The ophidian band has five circles and five pitted panels. A plain band is present around the central whorl (triskele). The triskele has three volutes that flow in a clockwise manner around a small hole in the center of the gorget. Nashville style gorgets often display a small concentric circle around the central hole, but this object does not have this particular design element.

Bone Artifacts

Astragalus Cube

A deer astragalus with multiple ground surfaces was recovered from Grave 35 south of the Jarman house (PM 82-35-10/27364).

Awl

George Woods found a bone awl (PM 83-68-10/31974) with Grave 2a. This particular artifact was made from a turkey long bone.

Pin

One complete pin measuring 191.0 mm long was found in Grave 40 south of the Jarman house (Figure 121). This (probable deer) specimen (PM 82-35-10/27385) displays a spatulate handle that abruptly tapers to a long and rounded body. The rather thin (3.9 mm) handle is undecorated and initially measures 26.0 mm wide. At a length of 33.4 mm, the pin width abruptly contracts to 16.4 mm. After a total length of 55.4 mm, the handle quickly narrows to a rounded body that extends 135.6 mm to a blunt point.

Polished Deer Mandible

Grave 38 from the low hill around the Jarman house contained one polished deer mandible (PM 82-35-10/27263).

Other Artifacts

Cannel Coal

George Woods recovered an object of ground cannel coal (PM 83-68-10/31986) from Grave 5. This object is tabular with an irregular shape.

Bark

Twenty-three strips of bark (PM 82-35-10/27193) were recorded under the arm of the individual buried in Grave 5 on the low hill around the Jarman house. The bark species has yet to be determined.

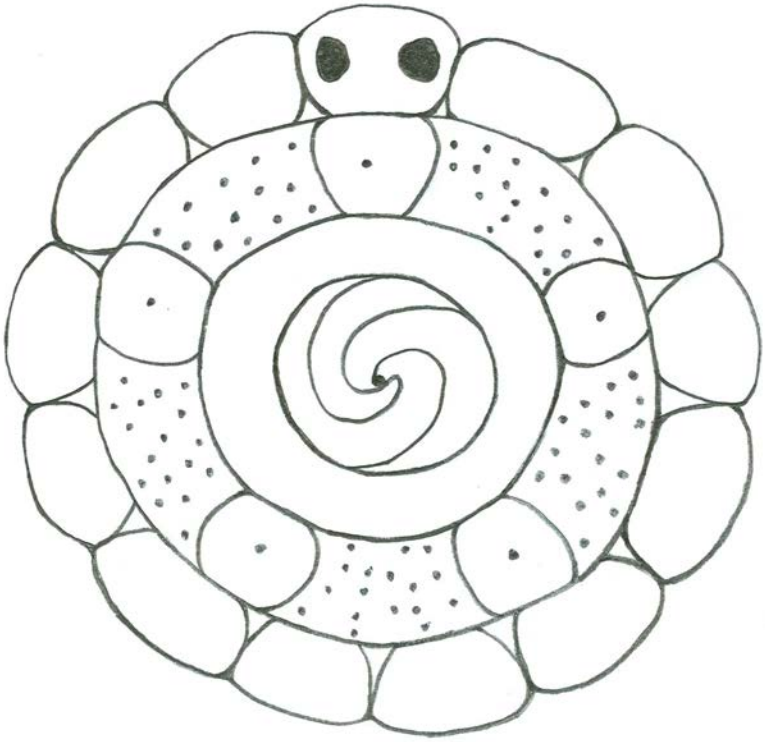

Figure 120. Author sketch of Nashville style marine shell gorget (PM 82-35-10/27401) recovered from Grave 42 on low hill around the Jarman house.

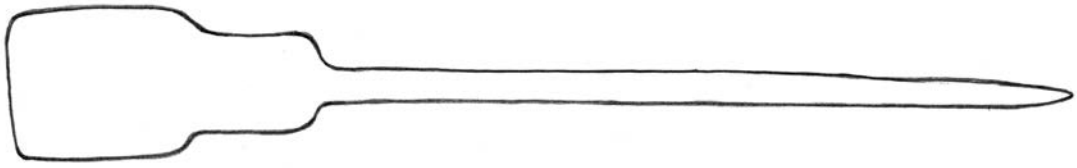

Figure 121. Author sketch of bone pin (PM 82-35-10/27385) recovered from Grave 40 south of the Jarman house, 1882 Putnam excavation.

XIII. COMMENTARY ON TWO STONE STATUES REPORTED FROM THE JARMAN FARM SITE

Kevin E. Smith and Michael C. Moore

The Goodspeed History of Tennessee includes a passage that alludes to the recovery of stone statuary from the Jarman Farm site.

> …In 1883 a roughish stone image was found on the farm of Dr. W. H. Garman, seven miles from Franklin, Williamson County. This is the image of a person sitting with limbs drawn close to the body and hands upon knees, and with the features resembling somewhat the supposed appearance of the Mound Builders. This image is now in the possession of the Tennessee Historical Society at Nashville. (Goodspeed 1887:54)

Historians generally consider the accuracy of the Goodspeed contents to be highly variable. The information submitted by individuals was rarely subject to any sort of professional verification. Evidence in support of this particular passage, however, was an antiquarian photograph of the stone statue from the Tennessee Historical Society collections (Thruston 1897:102-103; Plate IV; also see Hudson 1985:36). Thruston indicates this statue was discovered in Williamson County by Dr. Frost. William E. Myer (1924:135-136) references Dr. Frost in a brief passage "Graves 2 miles southeast of Brentwood, on farm known as Dr. Frost's place" in his catalogue of Tennessee prehistoric sites.

A second stone statue was recently linked with the image found by Dr. Frost (forming a statuary pair) based upon morphological and stylistic similarities (Miller and Smith 2003). The only provenance information provided for this second statue (part of the Heye Foundation collection) was that it derived from the "valley of the Cumberland" (Jones 1876).

Miller and Smith (2003) provide descriptions of both statues, labeled TN-6-B (Jones) and TN-6-C (Dr. Frost).

> Sculpted from sandstone, TN-6-B exhibits large oval eyes, a prominent although damaged nose, ears and mouth in relief with interior detailing, and a straight hairline in relief. The statue exhibits a depressed abdomen with arms and legs indicated by deep grooves. The penis is shown in shallow relief. A hair roll and pigtail reminiscent of the Sellars male (TN-1-C) is indicated, but lacking the buns on the side. Broad shoulders are shown, with plow damage on the left side and rear.
>
> Sculpted from the same type of sandstone, TN-6-C shares almost identical facial features, including large oval eyes, prominent nose, mouth in relief with incised straight openings, a straight hairline in relief, and ears in relief with identical interior detailing. Both share depressed abdomens, while the arms and legs are indicated on the sides by deep grooves. Unlike TN-6-B, TN-6-C exhibits nipples. The female has a typical elongated hair knot on the compressed occipital. The final distinction is that the female has narrow shoulders in contrast to the broad shoulders of

TN-6-B. Plow damage is most severe on the female, whose head was severed and several segments broken. Both seem to display plow damage to the same regions of the body, the left side and rear, indicating that they may have been buried together. If TN-6-C does represent a female, it is the only female statue to exhibit the raised right knee. Females with a raised leg have been identified on ceramic bottles.

There was no factual argument to reject these two statues coming from the Jarman Farm prior to a 2002 research trip to Harvard University. During this trip, the authors reviewed Putnam's (1882 Brentwood exploration) field notes and made an unexpected, yet enlightening, discovery. Included with these notes were plan and profile sketches of a stone statue recovered by Dr. Frost (Figure 122). Of considerable importance is that these sketches illustrate the Tennessee Historical Society statue pictured in Thruston (1897:Plate IV). Of even more importance, however, are the notations with the sketches.

Image of grey sandstone found by Dr. Frost near Brentwood while ploughing his field 1881. Another similar image was ploughed up in his field a few years before. (Putnam Field Notes 1882; Accession File 82-35E, Folder 2, Peabody Museum Collections Dept, Harvard University)

Figure 122. Putnam sketches of stone statue found by Dr. Frost in 1881 (Accession File 82-35E, Folder 2, Peabody Museum Collections Dept, Harvard University).

Putnam's notes also provide general dimensions for this particular artifact. He indicates the statue measures 12.5 inches high, 6.0 inches wide across the shoulders, and 7.5 inches wide at the base.

The Putnam and Goodspeed accounts differ in both the year and location that the image(s) were found. Putnam's 1882 information was obtained shortly after the image discovery, and he must have viewed the image in person to draw the front and side sketches. Putnam states that by 1881 two (similar) stone statues had been discovered near Brentwood, and that Dr. Frost found both stone images (several years apart) in his (Frost's) field. The 1878 D. G. Beers & Co. map of Williamson County shows the estate of Dr. S. B. Frost to be about two miles northeast of the Jarman farm (Brentwood Library site).

The Goodspeed text, on the other hand, indicates that one stone image was found in 1883 on the Jarman (misspelled Garman) farm. In addition to the later 1883 date (two years beyond Putnam's account), there was no mention of a second image. Given the relatively close proximity of the Frost and Jarman estates, the source of the Goodspeed information may have misunderstood the true location of the find. A practical reason for the difference in the date of discovery is unknown.

Putnam's direct experience with the image in Figure 122 (along with his academic training, credentials, and reputation) must be held in higher standing than the obvious secondhand account in Goodspeed. Although inaccurate, the Goodspeed passage did serve a useful purpose in calling attention to the fact that stone statuary had been recovered in the area.

XIV. DISCUSSION

Michael C. Moore

Brentwood Library Site Plan

The Division of Archaeology's primary goal during the 1997 investigations was to map all of the cultural features exposed during the burial removal project. This objective received the highest priority due to the substantial amount of site area to be impacted by the library development. The (subsequently discovered) 1882 Peabody Museum exploration records blended well with the 1997 project results to provide a more comprehensive vision of the Brentwood Library site plan. These projects confirmed that the native occupation encompassed two extant landforms located just south of the confluence of the Little Harpeth River and an unnamed, spring-fed tributary. These landforms comprised a relatively low and gently sloping ridge (maximum elevation of 694 feet AMSL), and a broad terrace (about 670 feet AMSL) that surrounded the north and east sides of the ridge.

The 1882 Putnam explorations concentrated on the ridge and slope around Dr. Jarman's house. Figure 123 presents a pre-construction topographic map of the site area that includes the (probable) location of the Jarman house. Putnam's field notes indicate he excavated 39 stone-box graves along the hilltop and slope located northeast of the house, and dug an additional 48 stone-box graves on the hilltop south of the house. Rough dimensions of these exploration areas have been marked in Figure 123 based upon key details in Putnam's sketch maps and field notes (see Figures 4 and 5; Appendices G and H).

The grave clusters discovered within these two exploration areas appear to represent cemeteries rather than habitation zones. However, a number of the southerly graves within the northeast exploration area (specifically Graves 1, 6, 8, 9, and 31) were infant burials. These particular graves appear dispersed enough on Putnam's map that they could be mortuary features associated with Mississippian domestic structures (see Figure 4). Interestingly, Putnam noted the burned structure eroding near the top of the hill was about 200 feet north of the Jarman house (see Figure 6). At this distance, the structure was also located somewhere within the southern vicinity of the northeast exploration area.

Examination of the Putnam records did reveal minor contradictions in grave direction and orientation between the sketch maps and the field entries (see Figures 4 and 5; Appendices G and H). For example, Grave 3 within the northeast exploration area is stated in the field notes to be four feet *south* of Grave 2. However, the sketch map displays Grave 3 to the *west* of Grave 2. In this instance, the sketch map is correct since the field notes also state Grave 3 is uphill from Grave 2 and uphill is to the west. In fact, the sketch map was ultimately considered the more accurate record for each of the seven grave discrepancies (Graves 3, 4, 19, 26, 28, 30, and 31) in the northeast exploration area. Field notes for the southern exploration area had three graves (Graves 9, 10, and 11) with different directions than the sketch map. The sketch map was regarded as the more accurate record for these graves as well.

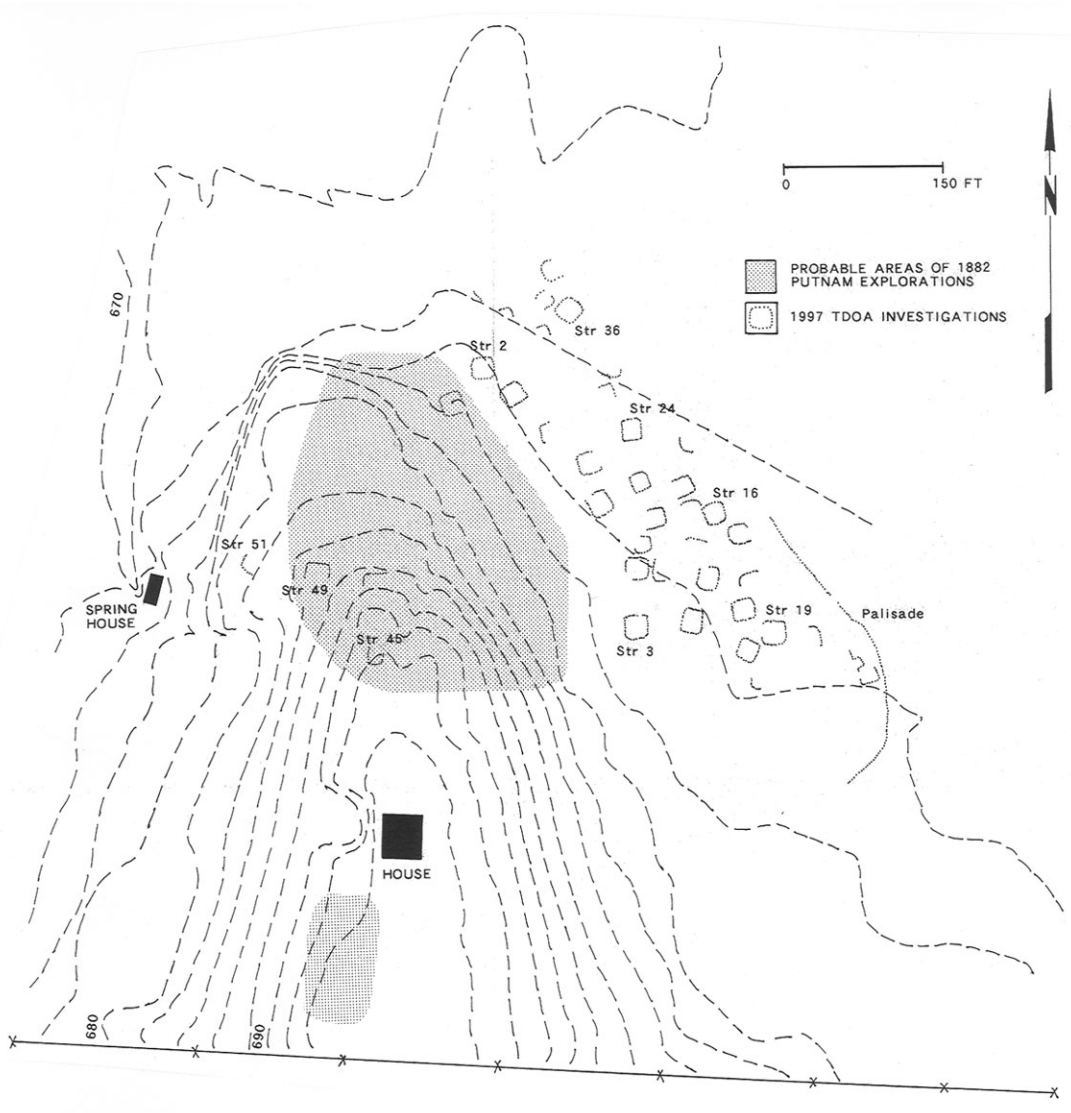

Figure 123. Pre-construction topographic map of the Brentwood Library site area. This figure presents the (estimated) Jarman house location and 1882 exploration boundaries. Selected structures from the 1997 investigations are also displayed.

Differences were also observed between the number of graves listed in Putnam's field notes and the number of graves shown on his sketch maps. He indicated 39 stone-box graves were removed from the northeastern exploration area (low hill around the Jarman house), but did not define three of the graves (Burials 29, 35, and 39) on his sketch map. Putnam illustrated 38 graves on the map, and left two of the sketched graves unlabeled (see Figure 4). A potential explanation for this numeric discrepancy is that Burial 29 does not actually exist. Putnam's notes do not have a specific description for Burial 29, and no Burial 29 artifacts or skeletal remains appear on the Peabody Museum artifact catalog. If Burial 29 truly does not exist, then the two unmarked graves on the sketch map possibly represent Burials 35 and 39.

Putnam noted that 48 stone-box graves were excavated within the southern exploration area (garden south of the Jarman house). His sketch map, however, presented only 32 burials (see Figure 5). Just 14 of these 32 burials were labeled with a number.

George Woods returned to the site in December 1882 and excavated (at least) nine stone-box graves. Unfortunately, field records were not kept during his limited exploration. The only provenance information discovered to date for this project comes from the Peabody Museum artifact catalog entry for Burial 1. This particular grave originated from an area southwest of the Jarman house. The other eight graves likely derived from this southwest location as well.

Though the exact spot of Woods' exploration remains unknown, an educated guess for the general location is possible. Figure 123 displays the estimated position of Putnam's southern investigation (in the garden area south of the house) as slightly southwest of the Jarman house. This locale yielded numerous stone-box graves containing a variety of ceramic vessels and other artifacts within a relatively limited area. Woods was certainly familiar with these previous site results since he was Putnam's foreman throughout the May-June 1882 project. Given these facts, along with the "southwest of the Jarman house" catalog entry for Burial 1, it seems highly probable that Woods resumed working on the ridge top in the same prolific area (garden south of the house) as Putnam.

The 1997 burial removal project also conducted explorations along the ridge top and slope. A substantial portion of this landform fell outside the primary construction footprint and was not subjected to the intense earthmoving action executed in other site areas (Figure 124). However, pre-construction clearing activity and stripping of selected areas behind the library building did expose a number of Mississippian period burials (n=35) and domestic structures (n=9). Thirty-two graves (Burials 1, 2, 3, 25, 26, 27, 28, 29, 30, 31, 48, 49, 50, 57, 61, 62, 64, 65, 66, 67, 68, 71, 72, 75, 78, 80, 81, 82, 83, 84, 85, and 86) were of stone-box construction, with the remaining three burials (Burials 47, 76, and 77) comprising pit interments. All but six graves (Burials 25, 26, 27, 28, 29, 30) were removed during the construction project. Four ridge top structures (Structures 47, 49, 50, and 51) had stone-box graves as associated interior features. The other five buildings uncovered along this landform were Structures 45, 46, 52, 53, and 54.

Figure 123 displays selected ridge top structures discovered during the 1997 removal project. As shown in this figure, a number of these buildings (and graves) appear to fall within the estimated boundaries of Putnam's northeast area explorations.

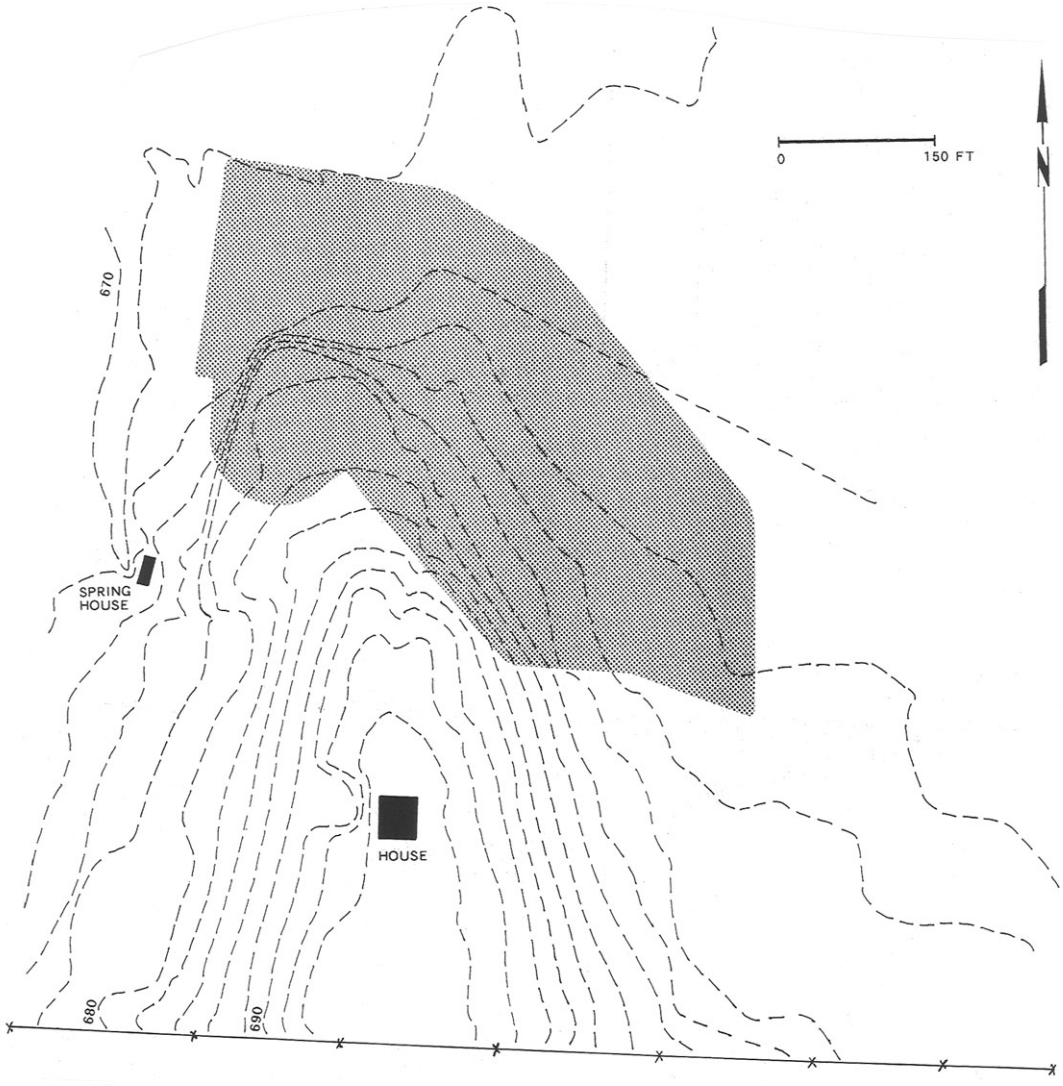

Figure 124. Pre-construction topographic map of the Brentwood Library site with the library building and parking lot footprint.

The obvious question to be asked, of course, is whether or not some of these 1997 features had been exposed and/or previously dug in 1882. Although best left in the realm of speculation, a fact to consider is that about one-third of the ridge top graves defined in 1997 (including Burials 49, 50, 57, 62, 66, 71, 72, 75, 80, 81, and 86) had experienced some type of disturbance prior to removal.

The 1882 Peabody Museum explorations did not venture into the broad terrace located north and east of the ridge. This landform was, however, extensively examined as a result of the 1997 burial removal project. Numerous refuse-filled pits, domestic structures, and human burials were documented within an area covering roughly 13,000 square meters (see Figure 12). More than one palisade line had been built to enclose this extensive habitation zone. The eastern and (part of the) northern palisade routes were defined during the project, but the southern and western boundaries of the palisade line have yet to be established.

The burial removal project uncovered 31 graves along the broad terrace. One small cluster of (primarily stone-box) graves was recorded just off the northern ridge slope next to the building pad. Burials 4, 5, 6, 7, 8, 9, 38, and 39 may have been part of a sizeable and more formal cemetery rather than an isolated cluster. Virtually the entire area surrounding this cluster had been seriously damaged by earthmoving activity (library construction as well as prior landowner dumping). Many of the remaining terrace graves comprised infant/child stone-boxes placed inside, or immediately adjacent to, the domestic structures (including Burials 14, 15, 35, 36, 42, 43, 45, 52, 53, 54, 55, 56, 58, 59, 60).

William E. Myer's passing reference to a mound at the Brentwood Library (Jarman Farm) site is considered to be without merit given the results of the 1882 and 1997 explorations (1928:561). As noted earlier in the Introduction, Dr. Jarman did not describe a mound in any of his letters to Putnam about the site (see Appendix E). None of Putnam's 1882 exploration field notes (or subsequent manuscript) include a reference to a mound on the Jarman Farm (see Appendices G and H). Given Putnam's extensive experience in digging mounds across the country, he would certainly have noted the presence of such an earthwork in his notes (and most likely would have dug into it). George Woods did not mention a mound at Dr. Jarman's farm in any of his personal correspondence with Putnam (see Appendix F). In addition to this early work, the 1997 investigations did not find any evidence for a mound either on the low ridge toe or broad terrace.

Concluding Remarks

Although the Mississippian period town represents the primary occupation at Brentwood Library, evidence for earlier use of the site area was recovered during the 1882 and 1997 archaeological explorations. Early Archaic (Kirk Corner-Notched, Lost Lake), Middle Archaic (Benton, Big Sandy, Morrow Mountain), Late Archaic (Cotaco Creek, Ledbetter, Little Bear Creek, Pickwick), and possibly Early Woodland (Adena) points were among various projectile points collected from the site surface. Also, one small body sherd of Woodland period pottery (cordmarked with quartz temper) was documented in the ceramic assemblage. However, all of the features recorded during the 1882 and 1997 works are considered to be Mississippian. Based upon this

evidence, native use of the site area during the Archaic and Woodland periods was most likely temporary, limited to hunting camps and brief respites from foraging expeditions.

Our current view of the Mississippian period for the general study area developed from a comprehensive synthesis of Mississippian sites across the Middle Cumberland River valley by Kevin Smith (1992). This study established a formal chronological scheme that outlined the growth and pinnacle of Mississippian society. The initial emergence of Mississippian people within the Middle Cumberland region is poorly understood, but Smith defined the Dowd phase (A.D. 1050-1250) to exemplify the founding and growth of most mound centers and towns. Subsequently, the Thruston phase (A.D. 1250-1450) represents the height of Mississippian culture in the Middle Cumberland River valley. During this particular phase, regional centers become less important, with a corresponding increase in nucleated, autonomous, or semi-autonomous fortified towns and villages. By A.D. 1450-1500, however, Mississippian groups essentially abandon the Middle Cumberland River valley. The reason(s) for this massive dispersal remain unknown, although the answer likely lies within the cumulative societal impacts of drought, crop failures, raiding activity, ill health, and dwindling natural resources.

As might be expected, this initial scheme has been tweaked over the years based upon findings from a variety of archaeological projects (Barker 2005; Jones 2001; Moore and Breitburg 1998; Moore 2004; Moore and Smith 2001; Smith and Moore 1994, 1995a, 1996a; Walling et al. 2000). These and other research results have provided important clues for temporal and spatial variations within Middle Cumberland groups living between A.D. 1050-1450. Unfortunately, the beginning and end of the Mississippian story remain as poorly understood today as they did over a decade ago.

The six radiocarbon dates from the 1997 investigation at Brentwood Library establish the Mississippian occupation well within the Thruston phase (see Section V). These dates, clustered between A.D. 1298 to 1455, were obtained from three structures (Structures 2, 3, and 4), two pit features (Features 10 and 60), and a palisade post (Feature 279).

The 85 graves discovered during the 1997 burial removal were primarily stone-box graves constructed with limestone slabs. Four pit burials, and several young individuals buried inside or under pottery vessels, were also defined. Sixty-six graves (containing 75 individuals) were removed since they could not be avoided by construction activity. A substantial percentage (29.3%, n=22) of these exhumed individuals were infants under one year of age, rising to 55% (n=41) for young children under five years of age, rising again to 64% (n=47) for children under ten years old. This high number of children (especially infants) is partially the result of uncovering a sizeable portion of the habitation zone on the broad terrace below the ridge toe. Mississippian groups commonly buried very young children inside their houses. The 1882 Putnam and Woods projects removed a combined total of 96 graves (containing 121 individuals) from the ridge top.

Further evaluation of the skeletal remains removed in 1997 identified several health problems. Over one-quarter (28%, n=21) of the skeletal population suffered from some kind of oral or dental pathology, including dental attrition, antemortem tooth loss, hypoplasia, caries, and severe calculus buildup. Other health conditions observed in the removed individuals include cribra orbitalia, cranial lesions, and periostitis on numerous

skeletal elements, osteoarthritis, and osteophytosis. Of some interest is the virtual absence of physical trauma and violence in the removed skeletal sample. The only instance of trauma was a right clavicle fracture in an infant. There was no evidence for violent injury or death, such as scalping or decapitation. The 1882 work by Putnam did expose one subadult individual (Burial 30 on the low hill around the Jarman house) with an arrow embedded in the vertebrae ("neck").

Each structure exposed by the 1997 search for burials displayed a simple post construction. It was a bit surprising that no wall trench structures were recorded. These domestic structures, generally square with rounded corners, exhibited walls measuring between five and seven meters long. The structure partially excavated by Putnam in 1882 likely had similar dimensions (see Figure 6).

Closer examination of these exposed structures revealed a variety of interior architectural attributes. Support posts, hearths, limestone clusters, and stone-box graves comprise standard interior features. Pit features were also present in a number of the buildings. Several buildings contained artifacts left by the native residents. Structure 2, for example, apparently caught fire and burned while still occupied. At least eight pottery vessels (including two fish effigy bowls, a hooded bottle, and a jar) were recovered from the collapsed daub rubble layer and underlying structure floor. A flake scraper and a mass of (deer and bear) animal bone were also present (see Figures 10, 11, and 24).

Division personnel examined less than one-third (n=46) of the 143 non-mortuary pit features uncovered during the 1997 burial removal. As stated earlier in this report, the Division's primary goal was to map the numerous archaeological resources exposed by the search for graves. Little time was available to further investigate these particular features beyond the initial consultant evaluation. Due to the variable attention accorded these pits, no attempt was made to separate them into functional categories such as storage, borrow, or refuse. The relatively few pits that did receive additional attention, however, yielded moderate amounts of artifactual material associated with Thruston phase occupations. Putnam did not record the presence of any non-mortuary features (beyond the partial structure) in his 1882 field notes. This result is not surprising since his exploration was focused upon opening burials rather than digging storage or trash pits.

The 1997 Brentwood Library site investigations discovered ceramic, lithic, bone, and other artifacts from a variety of contexts. These locales included structures, refuse-filled pit features, stone-box graves, pit burials, as well as the site surface. As expected, the 40Wm210 ceramic assemblage is composed of 99.8% shell-tempered ware. The ubiquitous Mississippi Plain and Bell Plain types account for the vast majority of the shell-tempered sample. This dominant outcome favorably compares with ceramic assemblages from other Mississippian sites within the study area (Table 34).

Shell-tempered pan sherds (Kimmswick Fabric Impressed, Kimmswick Plain, and Kimmswick Unidentified) comprise 1.5% of the total ceramic assemblage from Brentwood Library (n=97). Fabric impressed pan sherds represent one-third (33.3%, n=34) of the total pan sample. Plain pan sherds, on the other hand, account for nearly two-thirds (61.8%, n=63) of the total pan sample. Table 35 compares these percentages with varying results from other Middle Cumberland Mississippian sites.

Table 34. Mississippi Plain and Bell Plain Counts and Assemblage Percentages from Selected Middle Cumberland Mississippian Sites.

Site	Mississippi Plain		Bell Plain	
	No.	%	No.	%
Kelley's Battery (40Dv392)	1396	73.6	354	18.7
Rutherford-Kizer (40Su15)	7283	75.0	1835	18.9
Old Town (40Wm2)	527	79.5	100	15.1
Gordontown (40Dv6)	4806	81.1	722	12.2
Brentwood Library (40Wm210)	5441	84.3	759	11.8
French Lick/Sulphur Dell (40Dv5)	2985	90.4	4	0.1
East Nashville Mounds (40Dv4)	24,688	95.0	98	0.4

Shell-tempered sherds decorated with incised lines and punctations account for 1.1% (n=73) of the 40Wm210 ceramic assemblage. Although one percent seems an insignificant number, this result is certainly comparable to percentage results observed at other study area Mississippian sites (Table 36). Beckwith Incised (n=43) represents over one-half (57.3%) of this particular sample, followed by Matthews Incised *variety Matthews* (n=21), Matthews Incised *variety Manly* (n=2), and Mound Place Incised (n=2). Five specimens could not be assigned to a recognized type. Matthews Incised *variety Manly* usually comprises the minority percentage of incised wares. The higher percentage of Beckwith Incised at Brentwood Library is similar to the numbers from Kelley's Battery, Gordontown, and Old Town. Mound Place Incised has been infrequently reported from several Middle Cumberland Mississippian sites (Moore and Smith 2001; Myer 1928; Thruston 1897).

Table 35. Pan Counts and Percentages from Selected Middle Cumberland Mississippian Sites.

Site	Kimmswick Fabric Impressed		Kimmswick Plain	
	No.	%	No.	%
Kelley's Battery (40Dv392)	5	6.5	72	93.5
Gordontown (40Dv6)	28	10.4	241	89.6
Old Town (40Wm2)	4	30.8	9	69.2
Brentwood Library (40Wm210)	34	33.3	63	61.8
Rutherford-Kizer (40Su15)	338	76.6	12	2.7
East Nashville Mounds (40Dv4)	816	98.2	15	1.8
French Lick/Sulphur Dell (40Dv5)	286	100.0	-	0.0

The 1882 Peabody Museum explorations recovered incised vessels from four stone-box graves. Putnam's work on the low hill around the Jarman house yielded one Matthews Incised *variety Matthews* jar from Grave 2. His excavations in the garden south of the house produced a Matthews Incised *variety Matthews* jar from Grave 29, and a Beckwith Incised (frog effigy) jar from Grave 11. The limited work by George Woods (most likely in the garden area south of the house) yielded a Matthews Incised *variety Matthews* jar from Grave 6.

Twenty-seven negative painted sherds recovered from the 1997 site investigations derive from bottle forms. These specimens have a distinct (compact) paste with finely ground shell temper. Although these sherds comprise a small

percentage (0.4%) of the total ceramic assemblage, they represent a significant decorative style that is distinctive to Middle Cumberland Mississippian sites. Putnam retrieved a (probable) negative painted owl effigy hooded bottle from Grave 29 south of the Jarman house.

Table 36. Matthews Incised and Beckwith Incised Counts and Assemblage Percentages from Selected Middle Cumberland Mississippian Sites.

	Matthews Incised				Beckwith Incised*	
	variety Matthews		*variety Manly*			
Site	No.	%	No.	%	No.	%
Rutherford-Kizer (40Su15)	51	0.5	10	0.1	1	<0.1
Brentwood Library (40Wm210)	21	0.3	2	<0.1	43	0.7
East Nashville Mounds (40Dv4)	53	0.2	20	<0.1	6	<0.1
Kelley's Battery (40Dv392)	4	0.2	-	0.0	54	2.8
French Lick/Sulphur Dell (40Dv5)	2	<0.1	3	<0.1	6	0.2
Gordontown (40Dv6)	-	0.0	24	0.4	51	0.9
Old Town (40Wm2)	-	0.0	-	0.0	22	3.3

* also classified as Matthews Incised, *variety Beckwith*

Identified vessel forms from the 1997 ceramic assemblage encompass a variety of jars, bowls, pans, plates, and bottles. These forms comprise standard ware for a Middle Cumberland Mississippian town. The most common vessel from the Brentwood Library site is a globular (to sub-globular) jar with a direct rim and flattened lip. Another widespread form is a gently rounded, sub-hemispherical bowl that displays a notched rim appliqué strip along the exterior lip.

Human effigy vessels are present in the 1997 ceramic assemblage. A human effigy (female) hooded bottle had been placed with the infant in Burial 45 (see Figures 80 and 81). Other human representations include a figurine rattle (see Figures 82 and 83), several top knot fragments from hooded bottles, a skull rim-rider from a bowl (see Figure 85), and a medallion head from a bowl (see Figure 84). The 1882 exploration by Putnam recovered a human effigy hooded bottle from Grave 42 south of the Jarman house (see Figure 109).

Animals are represented in the 40Wm210 ceramic assemblage as well. The 1997 sample includes fish bowls (see Figure 86), frog jars (see Figure 88), and a possible duck tail lug. As previously mentioned, an owl effigy hooded bottle was recovered from Grave 29 (south of the Jarman house) by the 1882 Putnam work. In addition, Putnam discovered frog effigy jars in Graves 2 and 9 on the low hill around the Jarman house, and Graves 4, 11, 18, and 40 in the garden south of the house (see Figure 111). Putnam found a fish effigy (short neck) jar in Grave 24 south of the house (see Figure 110). George Woods retrieved a fish effigy bowl in Grave 2 (see Figure 116). Putnam's work in Grave 13 south of the house yielded a (probable) duck bowl. Other effigy vessels from the Brentwood Library site include gourd effigy bowls discovered by Putnam in Grave 31 on the low hill around the Jarman house, and Grave 4 in the garden south of the house (see Figures 113 and 114).

A jar section tempered with sand was uncovered near the Structure 5 hearth. Interestingly, local potters did not manufacture this (burnished) partial vessel. The origin

of this specimen has yet to be determined. Two additional sand-tempered sherds from Features 2 and 39 also derive from an unknown (non-local) source.

The lithic assemblage from the 1997 work at Brentwood Library can best be described as modest. An unexpectedly small amount of tools and debris was recovered from the site area, including the virtual absence of tools associated with hunting and butchering activities. Three Madison points comprise the total arrow sample, and one of these came from Burial 47. Perhaps the native residents were using materials other than chert to make their arrow points, such as cane or antler. Points of these materials would not necessarily preserve well. The relative lack of hunting tools from the 1997 work generally mirrors the results of the earlier 1882 Peabody Museum investigations. Dr. Jarman retrieved two arrow points (one Madison and one Sand Mountain) of local chert from the site surface and donated them to Putnam.

Stone tools used for woodworking activity represent the dominant tool types in the 40Wm210 lithic assemblage. The presence of such tools is expected given the need for wood as building materials (palisade wall and structures), fuel, and craftsman activities. Celts comprise the most numerous tool type (n=20) recovered from the 1997 work. These (generally large and heavy) items were found on structure floors, in pit features and burials, and on the site surface. The vast majority of specimens were made of locally available limestone (n=9) and Ft. Payne chert (n=8). Three artifacts of (non-local) greenstone complete the celt sample. One greenstone celt was found in Burial 47. Eight chisels were also retrieved during the 1997 work. All of these items were manufactured from locally available chert (n=7) and limestone (n=1). Celts and chisels were also recovered during the 1882 Peabody Museum works. Dr. Jarman collected five celts (two local chert, two limestone, and one greenstone) and one chisel (Dover chert) from the site surface and donated them to Putnam. Putnam's work in Grave 36 on the low hill around the Jarman house produced a celt of local Ft. Payne chert. George Woods collected a Dover chert chisel from the site surface.

Local stone resources account for the vast majority (96.9%) of the 1997 Brentwood Library assemblage. Ft. Payne represents the dominant local chert, with St. Louis, Warsaw, and Bigby-Cannon cherts present as well. Limestone, (abrasive) siltstone, and shale comprise additional resources utilized by the native residents. Despite their limited presence within the lithic assemblage, non-local resources provide important information on distant relationships and trade contact. Dover chert is the most prolific exotic material with 88.9% (n=40) of the sample, followed by greenstone (n=3), Burlington chert (n=1), and cannel coal (n=1). Non-local artifacts recovered during the 1882 Peabody Museum explorations include two Dover chert chisels, one Dover chert ovate knife, one Burlington chert ovate knife, one greenstone celt, a (possible) Mill Creek chert discoidal, and one hematite cobble. Mill Creek chert derives from southern Illinois and was extensively used during the Mississippian period to make agricultural implements (Cobb 1989; Morse and Morse 1983). Hematite is an iron ore that derives from the neighboring Highland Rim.

Identified faunal remains from the 1997 investigations were primarily composed of mammals (75%), followed by reptiles (19.5%), bird (3.7%), and fish (1.8%). Primary meat resources obtained from forest edge and open forest habitats include the white-tailed deer and wild turkey. The presence of black bear, squirrel, and box turtle suggests hunting trips into the rugged forest uplands of the adjacent Highland Rim. Species available from the Little Harpeth River include muskrat, beaver, and fish.

The Brentwood Library residents were using a broad range of upland and bottomland trees (maple, hickory, persimmon, ash, honey locust, walnut, red cedar, sweetgum, yellow poplar, sycamore, black cherry, oak, black locust, sassafras, and elm) for construction materials, firewood, and other needs. Black locust posts were identified in several structures (Structures 2, 3, 4, and 6) exposed during the 1997 work. Hickory and oak were also important wood resources. Cane was extensively used as a construction material for building walls.

A variety of nuts, seeds, fruits, and cultigens were also defined in the 1997 floral assemblage. Hickory, black walnut, acorn, and butternut comprise the nut species recovered from the excavations. The identified seeds and fruit include persimmon, honey locust, plum, and grape.

Maize represents a very important crop for Mississippian groups in the Middle Cumberland River valley. Successful production of this plant was essential for these populations to maintain and grow. Numerous cob sections, cob fragments, cupules, and kernels were recovered from structures, pit features, and the palisade bastion. Brentwood Library residents were primarily planting ten and twelve-row maize specimens, although several eight-row specimens were present. Several fragments of a second cultigen, cultivated bean, were also recorded in the floral assemblage. This crop has been recorded at several sites across the study area (Barker 2005; Broster 1972; Jones 2001; Moore and Smith 2001).

Several burials removed during the 1997 work contained items of marine (most likely whelk) and freshwater shell. Among these artifacts was a necklace of marine shell beads (barrel type) found with the infant in Burial 68. A spoon fragment made from an unidentified freshwater bivalve was recovered from Burial 85. Putnam also found shell artifacts during his 1882 investigations. These specimens included four marine shell earplugs (two with drilled central holes and two without holes), and over 45 (primarily marine shell) beads. One Nashville style marine shell gorget was discovered in an infant stone-box grave (Grave 42).

To close, the Brentwood Library site represents a Mississippian period town established on a low ridge toe and broad terrace overlooking the Little Harpeth River. This town was occupied over an approximate 150-year period during the 14th and mid-15th centuries. Substantial cemeteries were established along the ridge toe, with domestic dwellings built along the ridge and terrace settings. The vast number of structures uncovered across the library construction zone illustrates an active settlement with (at least several) hundreds of residents. The residents were protected by a palisade wall that enclosed the primary habitation zone. Such walls, assumed to be defensive in nature, are evident at virtually all other Thruston phase mound centers and towns across the Middle Cumberland study area (Barker 2005; Benthall 1983; Butler 1981; Klippel and Bass 1984; Moore 2004; Moore and Breitburg 1998; Moore and Smith 2001; Myer 1928; Smith 1992, 1993a, 1994). A subadult individual with an arrow in his/her vertebrae provides proof for some conflict in the study area.

The early antiquarian volumes that discussed Middle Cumberland River valley archaeology essentially overlooked the Little Harpeth River drainage (Jones 1876; Putnam 1878; Thruston 1897). Today, however, the Brentwood Library site represents one of four or five substantial Mississippian period occupations (Kellytown, 40Wm10; Arnold, 40Wm5; Fewkes, 40Wm1; and possibly Inglehame, 40Wm342) recorded within

the Little Harpeth River valley. An observation of considerable interest is that these particular locales are somewhat evenly spaced along the Little Harpeth River. Beginning along a point several miles from the confluence with the Harpeth River, these sites occur at roughly two to three-mile intervals into the Little Harpeth River headwaters. Several less substantial Mississippian sites have been defined in the drainage as well, including a probable hamlet (Coleman, 40Wm8) and a small stone-box cemetery (Patterson, 40Wm33). The presence of these various sites substantiates the Little Harpeth River valley as a locus of Mississippian period activity.

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APPENDIX A

List of Feature Numbers and Field Designations from the 1997 Brentwood Library Site Investigations

Michael C. Moore

Feature	Field Designation	Comments
1	DOA #1	Pit feature.
2	DOA #2	Pit feature, rock-filled.
3	DOA #3	Pit feature.
4	DOA #4	Pit feature
5	DOA #5	Pit feature.
6	DOA #6	Pit feature.
7	DOA #7	Modern disturbance.
8	DOA #8	Pit feature.
9	DOA #9	Pit feature.
10	DOA #10, point EL	Pit feature.
11	DOA #11	Pit feature.
12	DOA #12	Pit feature.
13	DOA #13	Pit feature (not mapped).
14	DOA #14, point QD	Post, Structure 6.
15	DOA #15	Pit feature, destroyed prior to mapping.
16	DOA #16, point AAE	Pit feature.
17	DOA #17, point BHC	Ceramic vessel, later assigned as Burial 73.
18	DOA #18	General midden fill over overlapping pit features 18A-18F.
18A	DOA #18A, point BHD	Pit feature.
18B	DOA #18B, point BHE	Pit feature.
18C	DOA #18C, point BHF	Pit feature.
18D	DOA #18D, point BHG	Pit feature
18E	DOA #18E, point BHH	Pit feature.
18F	DOA #18F, point BHI	Pit feature.
19	DOA #19, point BWO	Pit feature.
20	DOA #20, point BWN	Pit feature.
21	DOA #21, point BVH	Pit feature.
22	DOA #22, point BDW	Pit feature.
23	DOA #23, point WJ	Pit feature, overlaps pit feature 59.
24	DOA #24, point AAC	Pit feature.
25	DOA #25, point AAD	Pit feature also designated DOA #66.
26	DOA #26, point AAF	Pit feature.
27	DOA #27, point AAG	Pit feature.
28	DOA #28, point BIJ	Pit feature.
29	DOA #29	Not cultural.
30	DOA #30, point BEQ	Pit feature.
31	DOA #31, point BEP	Pit feature.
32	DOA #32, point BIG	Pit feature.
33	DOA #33, point BIH	Pit feature.
34	DOA #34, point BII	Pit feature.
35	DOA #35, point BUB	Pit feature.
36	DOA #36, point BWQ	Pit feature.
37	DOA #37, point BWP	Pit feature.
38	DOA #38, point BHJ	Pit feature.
39	DOA #39	Pit feature, just south-southeast of pit feature 38.
40	DOA #40	Pit feature.
41	DOA #41	Pit feature.
42	DOA #42	Limestone cluster, Structure 59.
43	DOA #43	Pit feature.
44	DOA #44, point ADE	Pit feature, Structure 22 interior.
45	DOA #45, point AOY	Pit feature, Structure 66 area.

Feature	Field Designation	Comments
46	DOA #46, point APG	Pit feature, Structure 41 area.
47	DOA #47, point AAB	Pit feature.
48	DOA #48, point BFB	Ceramic vessel, Structure 28.
49	DOA #49, point AAA	Pit feature.
50	DOA #50, point ADF	Pit feature, outside Structure 21.
51	DOA #51, point BDO	Pit feature.
52	DOA #52, point TR'	Pit feature.
53	DOA #53, point BDY	Pit feature.
54	DOA #54, point BIK	Pit feature.
55	DOA #55, point BWR	Pit feature.
56	DOA #56, point BWU	Pit feature.
57	DOA #57	Burial 57.
58	DOA #58, point BUN'	Pit feature, overlaps Feature 2173.
59	DOA #59, point WJ2	Pit feature, overlaps Feature 23.
60	DOA #60, point BXZ	Pit feature.
61	DOA #61, point BXZ'	Pit feature.
62	DOA #62, point APC	Pit feature.
63	DOA #63	Pit feature.
64	DOA #64	Pit feature.
65	DOA #65, point AEO	Pit feature.
66	DOA #66, point AAD	Pit feature, also designated DOA #25.
67	DOA #67, point BFA	Post.
68	DOA #68, point BDV	Ceramic vessel, Structure 26.
69	DOA #69, point BSK	Pit feature, also designated DOA #2126.
70	DOA #70	Pit feature with gastropods, not mapped.
71	DOA #71, point CGL	Pit feature filled with ceramics, near Structures 50 and 51.
72	DOA #72, point CFR	Pit feature, Structure 49 interior.
73	DOA #73, point CHO	Pit feature, near Structure 53.
74	DOA #74	Pit feature, near Structures 50 and 51.
75	DOA #75	Pit feature.
76	DOA #76, point CIG	Pit feature.
77	DOA #77, point CIF	Pit feature.
78	DOA #78, point CIH	Pit feature.
79	DOA #79, point CII	Pit feature.
80	DOA #80, point CIJ	Pit feature.
81	DOA #81, point CIK	Pit feature.
82	DOA #82, point CIL	Pit feature.
83	DOA #83, point CIM	Pit feature.
84	DOA #84, point CIN	Pit feature.
85	DOA #85, point CIO	Pit feature.
86	DOA #86, point CIP	Pit feature.
87	DOA #87, point CIQ	Pit feature.
88	DOA #88, point CIR	Pit feature.
89	DOA #89, point CIS	Pit feature.
90	DOA #90, point CIT	Pit feature.
91	DOA #91, point CIU	Pit feature.
92	DOA #92, point CKI	Pit feature.
93	DOA #93, point CKK	Pit feature.
94	DOA #94, point CJX	Pit feature.
95	DOA #95, point CJY	Pit feature.
96	DOA #96, point CJZ	Pit feature.
97	DOA #97, point CKA	Pit feature.
98	DOA #98, point CIV	Pit feature.
99	DOA #99, point CIW	Pit feature.
100	DOA #100, point CIX	Pit feature.
101	DOA #101, point CIY	Pit feature.
102	DOA #102, point CJA	Pit feature, near Structure 55.
103	DOA #103, point CJP	Pit feature, near Structure 55.
104	DOA #104, point CJV	Pit feature.

Feature	Field Designation	Comments
105	DOA #105, point CJW	Pit feature.
106	DOA #106, point CKJ	Pit feature.
107	DOA #107, point CIE	Pit feature, under floor of Structure 54.
108	DOA #108, point MBJ	Pit feature.
109	DOA #109, point MBK	Pit feature.
110	DOA #110, point MAI	Pit feature, near Structures 62 and 63.
111	DOA #111, point CDO	Pit feature, not investigated.
112	Point A	Hearth, Structure 1.
113	Point B	Post, Structure 1.
114	Point C	Post, Structure 1.
115	Point D	Post, Structure 1.
116	Point E	Post, Structure 1.
117	Point F	Post, Structure 1.
118	Point G	Post, Structure 1.
119	Point H	Post, Structure 1.
120	Point I	Post, Structure 1.
121	Point J	Post, Structure 1.
122	Point K	Post, Structure 1.
123	Point L	Post, Structure 1.
124	Point M	Post, Structure 1.
125	Point N	Post, Structure 1.
126	Point O	Post, Structure 1.
127	Point P	Post, Structure 1.
128	Point Q	Post, Structure 1.
129	Point R	Post, Structure 1.
130	Point S	Post, Structure 1.
131	Point T	Post, Structure 1.
132	Point U	Post, Structure 1.
133	Point V	Post, Structure 1.
134	Point W	Post, Structure 1.
135	Point X	Post, Structure 1.
136	Point Y	Post, Structure 1.
137	Point Z	Post, Structure 1.
138	Point AA	Post, Structure 1.
139	Point AB	Post, Structure 1.
140	Point AC	Post, Structure 1.
141	Point AD	Post, Structure 1.
142	Point AE	Post, Structure 1.
143	Point AF	Post, Structure 1.
144	Point AG	Post, Structure 1.
145	Point AH	Post, Structure 1.
146	Point AI	Post, Structure 1.
147	Point AJ	Post, Structure 1.
148	Point AK	Post, Structure 1.
149	Point AL	Post, Structure 1.
150	Point AM	Post, Structure 1.
151	Point AN	Post, Structure 1.
152	Point AO	Post, Structure 1.
153	Point AP	Post, Structure 1.
154	Point AQ	Post, Structure 1.
155	Point AR	Post, Structure 1.
156	Point AS	Post, Structure 1.
157	Point AT	Post, Structure 1.
158	Point AU	Post, Structure 1.
159	Point AV	Post, Structure 1.
160	Point AW	Post, Structure 1.
161	Point AX	Post, Structure 1.
162	Point AY	Post, Structure 1.
163	Point AZ	Post, Structure 1.

Feature	Field Designation	Comments
164	Point BA	Post, Structure 1.
165	Point BB	Post, Structure 1.
166	Point BC	Post, Structure 1.
167	Point BD	Post, Structure 1.
168	Point BE	Post, Structure 1.
169	Point BF	Post, Structure 1.
170	Point BG	Post, Structure 1.
171	Point BH	Post, Structure 1.
172	Point BI	Post, Structure 1.
173	Point BJ	Post, Structure 1.
174	Point BK	Post, Structure 1.
175	Point BL	Post, Structure 1.
176	Point BM	Post, Structure 1.
177	Point BN	Post, Structure 1.
178	Point BO	Post, Structure 1.
179	Point BQ	Post, Structure 2.
180	Point BR	Post, Structure 2; same as point DV.
181	Point BS	Post, Structure 2.
182	Point BT	Post, Structure 2.
183	Point BU	Post, Structure 2.
184	Point BV	Post, Structure 2.
185	Point BW	Post, Structure 2.
186	Point BX	Post, Structure 2.
187	Point BY	Post, Structure 2.
188	Point CC	Burned limestone slab, Structure 2.
189	Point CD	Burned limestone slab, Structure 2.
190	Point CE	Pottery vessel base, Structure 2.
191	Point CF	Antler section, Structure 2.
192	Point CG	Fish effigy vessel, Structure 2.
193	Point CH	Hearth, Structure 2.
194	Point CI	Post, Structure 2.
195	Point CJ	Post, Structure 2.
196	Point CK	Post, Structure 2.
197	Point CL	Post, Structure 2.
198	Point CM	Post, Structure 2.
199	Surveyor Mark 100	Post, exterior palisade.
200	Surveyor Mark 101	Post, exterior palisade.
201	Surveyor Mark 102	Post, exterior palisade.
202	Surveyor Mark 103	Post, exterior palisade.
203	Surveyor Mark 104	Post, exterior palisade.
204	Surveyor Mark 105	Post, exterior palisade.
205	Surveyor Mark 106	Post, exterior palisade.
206	Surveyor Mark 107	Post, exterior palisade.
207	Surveyor Mark 108	Post, exterior palisade.
208	Surveyor Mark 109	Post, exterior palisade.
209	Surveyor Mark 110	Post, exterior palisade.
210	Surveyor Mark 111	Post, exterior palisade.
211	Surveyor Mark 112	Post, exterior palisade.
212	Surveyor Mark 113	Post, exterior palisade.
213	Surveyor Mark 114	Post, exterior palisade.
214	Surveyor Mark 115	Post, exterior palisade.
215	Surveyor Mark 116	Post, exterior palisade.
216	Surveyor Mark 117	Post, exterior palisade.
217	Surveyor Mark 118	Post, exterior palisade.
218	Surveyor Mark 119	Post, exterior palisade.
219	Surveyor Mark 120	Post, exterior palisade.
220	Surveyor Mark 121	Post, exterior palisade.
221	Surveyor Mark 122	Post, exterior palisade.
222	Surveyor Mark 123	Post, exterior palisade.

Feature	Field Designation	Comments
223	Surveyor Mark 124	Post, exterior palisade.
224	Surveyor Mark 125	Post, exterior palisade.
225	Surveyor Mark 126	Post, exterior palisade.
226	Surveyor Mark 127	Post, exterior palisade.
227	Surveyor Mark 128	Post, exterior palisade.
228	Surveyor Mark 129	Post, exterior palisade.
229	Surveyor Mark 130	Post, exterior palisade.
230	Surveyor Mark 131	Post, exterior palisade.
231	Surveyor Mark 132	Post, exterior palisade.
232	Surveyor Mark 133	Post, exterior palisade.
233	Surveyor Mark 134	Post, exterior palisade.
234	Surveyor Mark 135	Post, exterior palisade.
235	Surveyor Mark 136	Post, exterior palisade.
236	Surveyor Mark 137	Post, exterior palisade.
237	Surveyor Mark 138	Post, exterior palisade.
238	Surveyor Mark 139	Post, exterior palisade.
239	Surveyor Mark 140	Post, exterior palisade.
240	Surveyor Mark 141	Post, exterior palisade.
241	Surveyor Mark 142	Post, exterior palisade.
242	Surveyor Mark 143	Post, exterior palisade.
243	Surveyor Mark 144	Post, exterior palisade.
244	Surveyor Mark 145	Post, exterior palisade.
245	Surveyor Mark 146	Post, exterior palisade.
246	Surveyor Mark 147	Post, exterior palisade.
247	Surveyor Mark 148	Post, exterior palisade.
248	Surveyor Mark 149	Post, exterior palisade.
249	Surveyor Mark 150	Post, exterior palisade.
250	Surveyor Mark 151	Post, exterior palisade.
251	Surveyor Mark 152	Post, exterior palisade.
252	Surveyor Mark 153	Post, exterior palisade.
253	Surveyor Mark 154	Post, exterior palisade.
254	Surveyor Mark 155	Post, exterior palisade.
255	Surveyor Mark 156	Post, exterior palisade.
256	Surveyor Mark 157	Post, exterior palisade.
257	Surveyor Mark 158	Post, exterior palisade.
258	Surveyor Mark 159	Post, exterior palisade.
259	Surveyor Mark 160	Post, exterior palisade.
260	Surveyor Mark 161	Post, exterior palisade.
261	Surveyor Mark 162	Post, exterior palisade.
262	Surveyor Mark 163	Post, exterior palisade.
263	Surveyor Mark 164	Post, exterior palisade.
264	Surveyor Mark 165	Post, exterior palisade.
265	Surveyor Mark 166	Post, exterior palisade.
266	Surveyor Mark 167	Post, exterior palisade.
267	Surveyor Mark 168	Post, exterior palisade.
268	Surveyor Mark 169	Post, exterior palisade.
269	Surveyor Mark 170	Post, exterior palisade.
270	Surveyor Mark 171	Post, exterior palisade.
271	Surveyor Mark 172	Post, exterior palisade.
272	Surveyor Mark 173	Post, exterior palisade.
273	Surveyor Mark 174	Post, exterior palisade.
274	Surveyor Mark 175	Post, exterior palisade.
275	Surveyor Mark 176	Post, exterior palisade.
276	Surveyor Mark 177	Post, exterior palisade.
277	Surveyor Mark 178	Post, exterior palisade.
278	Surveyor Mark 179	Post, exterior palisade.
279	Surveyor Mark 180	Post, exterior palisade.
280	Surveyor Mark 181	Post, exterior palisade.
281	Surveyor Mark 182	Post, exterior palisade.

Feature	Field Designation	Comments
282	Surveyor Mark 183	Post, exterior palisade.
283	Surveyor Mark 184	Post, exterior palisade.
284	Surveyor Mark 185	Post, exterior palisade.
285	Surveyor Mark 186	Post, exterior palisade.
286	Surveyor Mark 187	Post, exterior palisade.
287	Surveyor Mark 188	Post, exterior palisade.
288	Surveyor Mark 189	Post, exterior palisade.
289	Surveyor Mark 190	Post, exterior palisade.
290	Surveyor Mark 191	Post, exterior palisade.
291	Surveyor Mark 192	Post, exterior palisade.
292	Surveyor Mark 193	Post, exterior palisade.
293	Surveyor Mark 194	Post, exterior palisade.
294	Surveyor Mark 195	Post, exterior palisade.
295	Surveyor Mark 196	Post, exterior palisade.
296	Surveyor Mark 197	Post, exterior palisade.
297	Surveyor Mark 198	Post, exterior palisade.
298	Surveyor Mark 199	Post, exterior palisade.
299	Surveyor Mark 200	Post, exterior palisade.
300	Surveyor Mark 201	Post, exterior palisade.
301	Surveyor Mark 202	Post, exterior palisade.
302	Surveyor Mark 203	Post, exterior palisade.
303	Surveyor Mark 204	Post, exterior palisade.
304	Surveyor Mark 205	Post, exterior palisade.
305	Surveyor Mark 206	Post, exterior palisade.
306	Surveyor Mark 207	Post, exterior palisade.
307	Surveyor Mark 208	Post, exterior palisade.
308	Surveyor Mark 209	Post, exterior palisade.
309	Surveyor Mark 210	Post, exterior palisade.
310	Surveyor Mark 211	Post, exterior palisade.
311	Surveyor Mark 212	Post, exterior palisade.
312	Surveyor Mark 213	Post, exterior palisade.
313	Surveyor Mark 214	Post, exterior palisade.
314	Surveyor Mark 215	Post, exterior palisade.
315	Surveyor Mark 216	Post, exterior palisade.
316	Surveyor Mark 217	Post, exterior palisade.
317	Surveyor Mark 218	Post, exterior palisade.
318	Surveyor Mark 219	Post, exterior palisade.
319	Surveyor Mark 220	Post, exterior palisade.
320	Surveyor Mark 221	Post, exterior palisade.
321	Surveyor Mark 222	Post, exterior palisade.
322	Surveyor Mark 223	Post, exterior palisade.
323	Surveyor Mark 224	Post, exterior palisade.
324	Surveyor Mark 225	Post, exterior palisade.
325	Surveyor Mark 226	Post, exterior palisade.
326	Surveyor Mark 227	Post, exterior palisade.
327	Surveyor Mark 228	Post, exterior palisade.
328	Surveyor Mark 229	Post, exterior palisade.
329	Surveyor Mark 230	Post, exterior palisade.
330	Surveyor Mark 231	Post, exterior palisade.
331	Surveyor Mark 232	Post, exterior palisade.
332	Surveyor Mark 233	Post, exterior palisade.
333	Surveyor Mark 234	Post, exterior palisade.
334	Surveyor Mark 235	Post, exterior palisade.
335	Surveyor Mark 236	Post, exterior palisade.
336	Surveyor Mark 237	Post, exterior palisade.
337	Surveyor Mark 238	Post, exterior palisade.
338	Surveyor Mark 239	Post, exterior palisade.
339	Surveyor Mark 240	Post, exterior palisade.
340	Surveyor Mark 241	Post, exterior palisade.

Feature	Field Designation	Comments
341	Surveyor Mark 242	Post, exterior palisade.
342	Surveyor Mark 243	Post, exterior palisade.
343	Surveyor Mark 244	Post, exterior palisade.
344	Surveyor Mark 245	Post, exterior palisade.
345	Surveyor Mark 246	Post, exterior palisade.
346	Surveyor Mark 247	Post, exterior palisade.
347	Surveyor Mark 248	Post, exterior palisade.
348	Surveyor Mark 249	Post, exterior palisade.
349	Surveyor Mark 250	Post, exterior palisade.
350	Surveyor Mark 251	Post, exterior palisade.
351	Surveyor Mark 252	Post, exterior palisade.
352	Surveyor Mark 253	Post, exterior palisade.
353	Surveyor Mark 254	Post, exterior palisade.
354	Surveyor Mark 255	Post, exterior palisade.
355	Surveyor Mark 256	Post, exterior palisade.
356	Surveyor Mark 257	Post, exterior palisade.
357	Surveyor Mark 258	Post, exterior palisade.
358	Surveyor Mark 259	Post, exterior palisade.
359	Surveyor Mark 260	Post, exterior palisade.
360	Surveyor Mark 261	Post, exterior palisade.
361	Surveyor Mark 262	Post, exterior palisade.
362	Surveyor Mark 263	Post, exterior palisade.
363	Surveyor Mark 264	Post, exterior palisade.
364	Surveyor Mark 265	Post, exterior palisade.
365	Surveyor Mark 266	Post, exterior palisade.
366	Surveyor Mark 267	Post, exterior palisade.
367	Surveyor Mark 268	Post, exterior palisade.
368	Surveyor Mark 269	Post, exterior palisade.
369	Surveyor Mark 270	Post, exterior palisade.
370	Surveyor Mark 271	Post, exterior palisade.
371	Surveyor Mark 272	Post, exterior palisade.
372	Surveyor Mark 273	Post, exterior palisade, point CDN.
373	Surveyor Mark 274	Post, interior palisade.
374	Surveyor Mark 275	Post, Structure 61, point CDK.
375	Surveyor Mark 276	Post, interior palisade.
376	Surveyor Mark 277	Post, Structure 61, point CDM.
377	Surveyor Mark 278	Post, Structure 61, point CDE.
378	Surveyor Mark 279	Post, Structure 61, point CDA.
379	Surveyor Mark 280	Post, interior palisade.
380	Surveyor Mark 281	Post, Structure 48, point CCI.
381	Surveyor Mark 282	Post, Structure 48, point CCN.
382	Surveyor Mark 283	Post, interior palisade.
383	Surveyor Mark 284	Post, interior palisade.
384	Surveyor Mark 285	Post, interior palisade.
385	Surveyor Mark 286	Post.
386	Surveyor Mark 287	Post, interior palisade, point CCO.
387	Surveyor Mark 288	Post, interior palisade.
388	Surveyor Mark 289	Post, interior palisade, point CCP.
389	Surveyor Mark 290	Post, interior palisade.
390	Surveyor Mark 291	Post, interior palisade, point CCQ.
391	Surveyor Mark 292	Post, interior palisade, point CCR.
392	Surveyor Mark 293	Post, interior palisade, point CCS.
393	Surveyor Mark 294	Post, interior palisade bastion.
394	Surveyor Mark 295	Post, interior palisade bastion.
395	Surveyor Mark 296	Post, interior palisade bastion.
396	Surveyor Mark 297	Post, interior palisade bastion.
397	Surveyor Mark 298	Post, interior palisade bastion.
398	Surveyor Mark 299	Post, interior palisade bastion.
399	Surveyor Mark 300	Post, interior palisade bastion.

Feature	Field Designation	Comments
400	Surveyor Mark 301	Post, interior palisade bastion.
401	Surveyor Mark 302	Post, interior palisade bastion.
402	Surveyor Mark 303	Post, interior palisade bastion.
403	Surveyor Mark 304	Post, interior palisade bastion.
404	Surveyor Mark 305	Post, interior palisade bastion.
405	Surveyor Mark 306	Post, interior palisade bastion.
406	Surveyor Mark 307	Post, interior palisade bastion.
407	Surveyor Mark 308	Post, interior palisade.
408	Surveyor Mark 309	Post, interior palisade.
409	Surveyor Mark 310	Post, interior palisade.
410	Surveyor Mark 311	Post, interior palisade.
411	Surveyor Mark 312	Post, interior palisade.
412	Point DA	Post, Structure 2.
413	Point DB	Post, Structure 2.
414	Point DC	Post, Structure 2.
415	Point DD	Post, Structure 2.
416	Point DE	Post, Structure 2.
417	Point DF	Post, Structure 2.
418	Point DG	Post, Structure 2.
419	Point DH	Post, Structure 2.
420	Point DI	Post, Structure 2.
421	Point DJ	Post, Structure 2.
422	Point DK	Post, Structure 2.
423	Point DL	Post, Structure 2.
424	Point DM	Post, Structure 2.
425	Point DN	Post, Structure 2.
426	Point DO	Post, Structure 2.
427	Point DP	Post, Structure 2.
428	Point DQ	Post, Structure 2.
429	Point DR	Post, Structure 2.
430	Point DS	Post, Structure 2.
431	Point DT	Post, Structure 2.
432	Point DU	Post, Structure 2.
433	Point DV	Post, Structure 2, same as point BR.
434	Point DW	Post, Structure 2.
435	Point DX	Post, Structure 2.
436	Point DY	Post, Structure 2.
437	Point DZ	Post, Structure 2.
438	Point EA	Post, Structure 2.
439	Point EB	Post, Structure 2.
440	Point EC	Post, Structure 2.
441	Point ED	Post, Structure 2.
442	Point EE	Post, Structure 2.
443	Point EF	Post, Structure 2.
444	Point EG	Post, Structure 2.
445	Point EH	Post, Structure 2.
446	Point EI	Post, Structure 2.
447	Point EJ	Post, Structure 2.
448	Point EM	Post, Structure 2.
449	Point EN	Post, Structure 2.
450	Point EO	Post, Structure 2.
451	Point EP	Post, Structure 2.
452	Point EQ	Post, Structure 2.
453	Point ER	Post, Structure 2.
454	Point ES	Post, Structure 2.
455	Point ET	Post, Structure 2.
456	Point EU	Post, Structure 2.
457	Point EV	Post, Structure 2.
458	Point EX	Post, Structure 2.

Feature	Field Designation	Comments
459	Point EY	Post, Structure 2.
460	Point EZ	Post, Structure 2.
461	Point FA	Post, Structure 2.
462	Point FB	Post, Structure 2.
463	Point FC	Post, Structure 2.
464	Point FD	Post, Structure 2.
465	Point FE	Post, Structure 2.
466	Point FF	Post, Structure 2.
467	Point FG	Post, Structure 2.
468	Point FH	Post, Structure 2.
469	Point FI	Post, Structure 2.
470	Point FJ	Post, Structure 2.
471	Point FK	Post, Structure 2.
472	Point FL	Post, Structure 2.
473	Point FM	Post, Structure 2.
474	Point FN	Post, Structure 2.
475	Point FO	Post, Structure 2.
476	Point FP	Post, Structure 2.
477	Point FQ	Post, Structure 2.
478	Point FR	Post, Structure 2.
479	Point FS	Post, Structure 2.
480	Point FT	Post, Structure 2.
481	Point FU	Post, Structure 2.
482	Point GA	Post, Structure 3.
483	Point GB	Post, Structure 3.
484	Point GC	Post, Structure 3.
485	Point GD	Post, Structure 3.
486	Point GE	Post, Structure 3.
487	Point GF	Post, Structure 3.
488	Point GG	Post, Structure 3.
489	Point GH	Post, Structure 3; double post with Feature 490.
490	Point GI	Post, Structure 3; double post with Feature 489.
491	Point GJ	Post, Structure 3.
492	Point GK	Post, Structure 3.
493	Point GL	Post, Structure 3.
494	Point GM	Post, Structure 3.
495	Point GN	Post, Structure 3.
496	Point GO	Post, Structure 3.
497	Point GP	Post, Structure 3.
498	Point GQ	Post, Structure 3.
499	Point GR	Post, Structure 3.
500	Point GS	Post, Structure 3.
501	Point GT	Post (rock-filled), Structure 3; double post with Feature 502.
502	Point GU	Post, Structure 3; double post with Feature 501.
503	Point GV	Post, Structure 3.
504	Point GW	Post, Structure 3.
505	Point GX	Post, Structure 3.
506	Point GY	Post, Structure 3.
507	Point GZ	Post, Structure 3.
508	Point HA	Post, Structure 3.
509	Point HB	Post, Structure 3.
510	Point HC	Post, Structure 3.
511	Point HD	Post, Structure 3.
512	Point HE	Post, Structure 3.
513	Point HF	Post, Structure 3.
514	Point HG	Post, Structure 3.
515	Point HH	Post, Structure 3.
516	Point HI	Post, Structure 3.
517	Point HJ	Post, Structure 3.

Feature	Field Designation	Comments
518	Point HK	Post, Structure 3.
519	Point HL	Hearth, Structure 3.
520	Point HM	Post, Structure 3; double post with Feature 521.
521	Point HN	Rock-filled post, Structure 3; double post with Feature 520.
522	Point HO	Post, Structure 3.
523	Point HP	Post, Structure 3.
524	Point HQ	Post, Structure 3.
525	Point HR	Post, Structure 3.
526	Point HS	Post, Structure 3.
527	Point HT	Post, Structure 3.
528	Point HU	Post, Structure 3.
529	Point HV	Post, Structure 3.
530	Point HW	Post, Structure 3.
531	Point HX	Post, Structure 3.
532	Point HY	Post, Structure 3.
533	Point HZ	Post, Structure 3.
534	Point IA	Post, Structure 3.
535	Point IB	Post, Structure 3.
536	Point IC	Post, Structure 3.
537	Point ID	Post, Structure 3.
538	Point IE	Post, Structure 3.
539	Point IF	Post, Structure 3.
540	Point IG	Post, Structure 3.
541	Point IH	Post, Structure 3.
542	Point II	Post, Structure 3.
543	Point IJ	Post, Structure 3.
544	Point IK	Post, Structure 3.
545	Point IL	Post, Structure 3.
546	Point IM	Post, Structure 3.
547	Point IN	Post, Structure 3.
548	Point IO	Post, Structure 3.
549	Point IP	Post, Structure 3.
550	Point IQ	Post, Structure 3.
551	Point IR	Post, Structure 3.
552	Point IS	Post, Structure 3.
553	Point IT	Post, Structure 3.
554	Point IU	Post, Structure 3.
555	Point IV	Post, Structure 3.
556	Point IW	Post, Structure 3; tabular burned limestone in base of post; double post with Feature 569.
557	Point IX	Post, Structure 3.
558	Point IY	Post, Structure 3.
559	Point IZ	Post, Structure 3.
560	Point JA	Post, Structure 3.
561	Point JB	Post, Structure 3.
562	Point JC	Post, Structure 3.
563	Point JD	Post, Structure 3.
564	Point JE	Post, Structure 3.
565	Point JF	Post, Structure 3.
566	Point JG	Post, Structure 3.
567	Point JH	Post, Structure 3.
568	Point JI	Post, Structure 3.
569	Point JJ	Post, Structure 3; double post with Feature 556.
570	Point JK	Post, Structure 3.
571	Point JL	Post, Structure 3.
572	Point KA	Hearth, Structure 4.
573	Point KB	Limestone cluster, Structure 4.
574	Point KC	Burned limestone cluster, Structure 4.
575	Point KD	Infant grave (Burial 36), Structure 4.

Feature	Field Designation	Comments
576	Point KE	Post, Structure 4.
577	Point KF	Post, Structure 4.
578	Point KG	Post, Structure 4.
579	Point KH	Post, Structure 4.
580	Point KI	Post, Structure 4.
581	Point KK	Post, Structure 4.
582	Point KL	Post, Structure 4.
583	Point KM	Post, Structure 4.
584	Point KN	Post, Structure 4.
585	Point KO	Post, Structure 4.
586	Point KP	Post, Structure 4.
587	Point KQ	Post, Structure 4.
588	Point KR	Post, Structure 4.
589	Point KS	Post, Structure 4.
590	Point KT	Post, Structure 4.
591	Point KU	Post, Structure 4.
592	Point KV	Post, Structure 4.
593	Point KW	Post, Structure 4.
594	Point KX	Post, Structure 4.
595	Point KY	Post, Structure 4.
596	Point KZ	Post, Structure 4.
597	Point LA	Post, Structure 4.
598	Point LB	Post, Structure 4.
599	Point LC	Post, Structure 4.
600	Point LD	Post, Structure 4.
601	Point LE	Post, Structure 4.
602	Point LF	Post, Structure 4.
603	Point LG	Post, Structure 4.
604	Point LH	Post, Structure 4.
605	Point LI	Post, Structure 4.
606	Point LJ	Post, Structure 4.
607	Point LK	Post, Structure 4.
608	Point LL	Post, Structure 4.
609	Point LM	Post, Structure 4.
610	Point LN	Post, Structure 4.
611	Point LO	Post, Structure 4.
612	Point LP	Post, Structure 4.
613	Point LQ	Post, Structure 4.
614	Point LR	Post, Structure 4.
615	Point LS	Post, Structure 4.
616	Point LT	Post, Structure 4.
617	Point LU	Post, Structure 4.
618	Point LV	Post, Structure 4.
619	Point LW	Post, Structure 4; double post with Feature 620.
620	Point LX	Post, Structure 4; double post with Feature 621.
621	Point LY	Post, Structure 4.
622	Point LZ	Post, Structure 4.
623	Point MA	Post, Structure 4.
624	Point MB	Post, Structure 4.
625	Point MC	Post, Structure 4.
626	Point MD	Post, Structure 4.
627	Point ME	Post, Structure 4.
628	Point MF	Post, Structure 4.
629	Point MG	Post, Structure 4.
630	Point MH	Post, Structure 4.
631	Point MI	Post, Structure 4.
632	Point MJ	Post, Structure 4.
633	Point MK	Post, Structure 4.
634	Point ML	Post, Structure 4.

Feature	Field Designation	Comments
635	Point MM	Post, Structure 4.
636	Point MN	Post, Structure 4.
637	Point MO	Post, Structure 4.
638	Point MP	Post, Structure 4.
639	Point MQ	Post, Structure 4.
640	Point MR	Post, Structure 4.
641	Point MS	Post, Structure 4.
642	Point MT	Post, Structure 4.
643	Point MU	Post, Structure 4.
644	Point MV	Post, Structure 4.
645	Point MW	Post, Structure 4.
646	Point MX	Post, Structure 4.
647	Point MY	Post, Structure 4.
648	Point MZ	Post, Structure 4.
649	Point NA	Post, Structure 4?
650	Point NB	Post, Structure 4?
651	Point NC	Hearth, Structure 7.
652	Point NF	Post, Structure 40.
653	Point NG	Post, Structure 40.
654	Point NH	Post, Structure 7.
655	Point NI	Post, Structure 7.
656	Point NJ	Post, Structure 7.
657	Point NK	Post, Structure 7.
658	Point NL	Post, Structure 40.
659	Point NM	Post, Structure 7.
660	Point NN	Post, Structure 40.
661	Point NO	Post, Structure 7.
662	Point NP	Post, Structure 7.
663	Point NQ	Post, Structure 40.
664	Point NR	Post, Structure 40.
665	Point NS	Post, Structure 40.
666	Point NT	Post, Structure 7.
667	Point NU	Post, Structure 7.
668	Point NV	Post, Structure 7.
669	Point NW	Post, Structure 7.
670	Point NX	Post, Structure 7.
671	Point NY	Post, Structure 7.
672	Point NZ	Post, Structure 7.
673	Point OA	Post, Structure 7.
674	Point OB	Post, Structure 7.
675	Point OC	Post, Structure 7.
676	Point OD	Post, Structure 7.
677	Point OE	Post, Structure 7.
678	Point OF	Post, Structure 7.
679	Point OG	Post, Structure 7.
680	Point OH	Post, Structure 7.
681	Point OI	Post, Structure 7.
682	Point OJ	Post, Structure 7.
683	Point OK	Post, Structure 7.
684	Point OL	Post, Structure 7.
685	Point OM	Post, Structure 7.
686	Point ON	Post, Structure 7.
687	Point OO	Post, Structure 7.
688	Point OP	Post, Structure 7.
689	Point OQ	Post, Structure 7.
690	Point OR	Post, Structure 7.
691	Point OS	Post, Structure 7.
692	Point OT	Post, Structure 7.
693	Point OU	Post, Structure 7.

Feature	Field Designation	Comments
694	Point OV	Pit feature, near Structure 7.
695	Point OW	Post, Structure 7.
696	Point OX	Post, Structure 7.
697	Point OY	Post, Structure 7.
698	Point OZ	Post, Structure 7.
699	Point PA	Post, Structure 7.
700	Point PB	Post, Structure 7.
701	Point PC	Post, Structure 7.
702	Point PD	Post, Structure 7.
703	Point PE	Post, Structure 7.
704	Point PF	Post, Structure 7.
705	Point PG	Post, Structure 7.
706	Point PH	Post, Structure 7.
707	Point PI	Post, Structure 40.
708	Point PJ	Post, Structure 40.
709	Point PK	Post, Structure 7.
710	Point PL	Post, Structure 40.
711	Point PM	Post, Structure 7.
712	Point PN	Post, Structure 7.
713	Point PO	Post, Structure 7.
714	Point PP	Post, Structure 40.
715	Point QA	Post, Structure 6.
716	Point QB	Post, Structure 6.
717	Point QC	Post, Structure 6.
718	Point QE	Post, Structure 6.
719	Point QF	Post, Structure 6.
720	Point QG	Post, Structure 6.
721	Point QH	Post, Structure 6.
722	Point QI	Post, Structure 6.
723	Point QJ	Post, Structure 6.
724	Point QK	Post, Structure 6.
725	Point QL	Post, Structure 6.
726	Point QM	Post, Structure 6.
727	Point QN	Post, Structure 6.
728	Point QO	Post, Structure 6.
729	Point QP	Post, Structure 6.
730	Point QQ	Post, Structure 6.
731	Point QR	Post, Structure 6.
732	Point QS	Post, Structure 6.
733	Point QT	Post, Structure 6.
734	Point QU	Post, Structure 6.
735	Point QV	Post, Structure 6.
736	Point QW	Post, Structure 6.
737	Point QX	Post, Structure 6.
738	Point QY	Post, Structure 6.
739	Point QZ	Post, Structure 6.
740	Point RA	Post, Structure 6.
741	Point RB	Post, Structure 6.
742	Point RC	Post, Structure 6.
743	Point RD	Post, Structure 6.
744	Point RE	Post, Structure 6.
745	Point RF	Post, Structure 6.
746	Point RG	Post, Structure 6.
747	Point RH	Post, Structure 6.
748	Point RI	Post, Structure 6.
749	Point RJ	Post, Structure 6.
750	Point RK	Post, Structure 6.
751	Point RL	Post, Structure 6.
752	Point RM	Post, Structure 6.

Feature	Field Designation	Comments
753	Point RN	Post, Structure 6.
754	Point RO	Post, Structure 6.
755	Point RP	Post, Structure 6.
756	Point RQ	Post, Structure 6.
757	Point RR	Post, Structure 6.
758	Point RS	Post, Structure 6.
759	Point RT	Post, Structure 6.
760	Point RU	Post, Structure 6.
761	Point RV	Post, Structure 6.
762	Point RX	Hearth, Structure 6.
763	Point SA	Post, Structure 10.
764	Point SB	Post, Structure 10.
765	Point SC	Post, Structure 10.
766	Point SD	Post, Structure 10.
767	Point SE	Post, Structure 10.
768	Point SF	Post, Structure 10.
769	Point SG	Post, Structure 10.
770	Point SH	Post, Structure 10.
771	Point SI	Post, Structure 10.
772	Point SJ	Post, Structure 10.
773	Point SK	Post, Structure 10.
774	Point SL	Post, Structure 10.
775	Point SM	Post, Structure 10.
776	Point SN	Post, Structure 10.
777	Point SO	Post, Structure 10.
778	Point SP	Post, Structure 10.
779	Point SQ	Post, Structure 10.
780	Point SR	Post, Structure 10.
781	Point SS	Post, Structure 10.
782	Point ST	Post, Structure 10.
783	Point SU	Post, Structure 10.
784	Point SV	Post, Structure 10.
785	Point SW	Post, Structure 10.
786	Point SX	Post, Structure 10.
787	Point SY	Post, Structure 10.
788	Point SZ	Post, Structure 10.
789	Point TA	Post, Structure 10.
790	Point TB	Post, Structure 10.
791	Point TC	Post, Structure 10.
792	Point TF	Post, Structure 31.
793	Point TG	Post, Structure 10.
794	Point TH	Post, Structure 10.
795	Point TI	Post, Structure 10.
796	Point TJ	Post, Structure 10.
797	Point TK	Post, Structure 10.
798	Point TL	Post, Structure 10.
799	Point TM	Post, Structure 10.
800	Point TN	Post, Structure 10.
801	Point TO	Post, Structure 10.
802	Point TP	Post, Structure 10; limestone present.
803	Point TQ	Post, Structure 10; limestone present.
804	Point TR	Post, Structure 31.
805	Point TS	Post, Structure 31.
806	Point TT	Post, Structure 31.
807	Point TU	Post, Structure 31.
808	Point TV	Post, Structure 31.
809	Point TW	Post, Structure 31.
810	Point TX	Post, Structure 31.
811	Point TY	Post, Structure 10.

Feature	Field Designation	Comments
812	Point TB’	Post, Structure 10.
813	Point TC’	Post, Structure 10.
814	Point TD’	Post, Structure 10.
815	Point TE’	Post, Structure 10.
816	Point TF’	Post, Structure 10.
817	Point TG’	Post, Structure 10.
818	Point TH	Post, Structure 10.
819	Point TI’	Post, Structure 10.
820	Point TJ’	Post, Structure 10.
821	Point TK’	Post, Structure 10.
822	Point TL’	Post, Structure 10.
823	Point TM’	Post, Structure 10.
824	Point TN’	Post, Structure 10.
825	Point TO’	Post, Structure 10.
826	Point TP’	Post, Structure 10.
827	Point TQ’	Post, Structure 10.
828	Point A’	Post, Structure 8.
829	Point B’	Post, Structure 8.
830	Point C’	Post, Structure 8.
831	Point D’	Post, Structure 8.
832	Point E’	Post, Structure 8.
833	Point F’	Post, Structure 8.
834	Point G’	Post, Structure 8.
835	Point H’	Post, Structure 8.
836	Point I’	Post, Structure 8.
837	Point J’	Post, Structure 8.
838	Point K’	Post, Structure 8.
839	Point L’	Post, Structure 8.
840	Point M’	Post, Structure 8.
841	Point N’	Post, Structure 8.
842	Point O’	Post, Structure 8.
843	Point P’	Post, Structure 8.
844	Point Q’	Post, Structure 8.
845	Point R’	Post, Structure 8.
846	Point S’	Post, Structure 8.
847	Point T’	Post, Structure 8.
848	Point U’	Post, Structure 8.
849	Point V’	Pit feature, outside Structure 8.
850	Point W’	Post, Structure 8.
851	Point X’	Post, Structure 8.
852	Point Y’	Post, Structure 8.
853	Point Z’	Post, Structure 8.
854	Point AA’	Post, Structure 8.
855	Point AB’	Post, Structure 8.
856	Point AC’	Post, Structure 8.
857	Point AD’	Post, Structure 8.
858	Point AE’	Post, Structure 8.
859	Point AF’	Post, Structure 8.
860	Point AG’	Post, Structure 8.
861	Point AH’	Post, Structure 8.
862	Point AI’	Post, Structure 8.
863	Point AJ’	Post, Structure 65.
864	Point AK’	Post, Structure 8.
865	Point AL’	Post, Structure 65.
866	Point AM’	Post, Structure 8.
867	Point AN’	Post, Structure 8.
868	Point AO’	Post, Structure 65.
869	Point AP’	Post, Structure 8.
870	Point AQ’	Post, Structure 8.

Feature	Field Designation	Comments
871	Point AR’	Post, Structure 65.
872	Point AS’	Post, Structure 65.
873	Point AT’	Post, Structure 65.
874	Point AU’	Post, Structure 65.
875	Point AV’	Post, Structure 65.
876	Point AW’	Post, Structure 65.
877	Point UA	Post, Structure 11.
878	Point UB	Post, Structure 11.
879	Point UC	Post, Structure 11.
880	Point UD	Post, Structure 11.
881	Point UE	Post, Structure 11.
882	Point UF	Post, Structure 11.
883	Point UG	Post, Structure 11.
884	Point UH	Post, Structure 11.
885	Point UI	Post, Structure 11.
886	Point UJ	Post, Structure 11.
887	Point UK	Post, Structure 11.
888	Point UL	Post, Structure 11.
889	Point UM	Post, Structure 11.
890	Point UN	Post, Structure 11.
891	Point UO	Post, Structure 11.
892	Point UP	Post, Structure 11.
893	Point UQ	Post, Structure 11.
894	Point US	Post, Structure 11.
895	Point UT	Post, Structure 11.
896	Point UU	Post, Structure 11.
897	Point UV	Post, Structure 11.
898	Point UW	Post, Structure 11.
899	Point UX	Post, Structure 11.
900	Point UY	Post, Structure 11.
901	Point UZ	Post, Structure 11.
902	Point VA	Post, Structure 11.
903	Point VB	Post, Structure 11.
904	Point VC	Post, Structure 11.
905	Point VD	Post, Structure 11.
906	Point VE	Post, Structure 11.
907	Point VF	Post, Structure 11.
908	Point VG	Post, Structure 11.
909	Point VH	Post, Structure 11.
910	Point VI	Post, Structure 11.
911	Point VJ	Post, Structure 11.
912	Point VK	Post, Structure 11.
913	Point VL	Post, Structure 11.
914	Point VM	Post, Structure 11.
915	Point VN	Post, Structure 11.
916	Point VO	Post, Structure 11.
917	Point VP	Post, Structure 11.
918	Point VQ	Post, Structure 11.
919	Point VR	Post, Structure 11.
920	Point VS	Post, Structure 11.
921	Point VT	Post, Structure 11.
922	Point VU	Post, Structure 11.
923	Point VV	Post, Structure 11.
924	Point VW	Post, Structure 11.
925	Point VX	Post, Structure 11.
926	Point VY	Post, Structure 11.
927	Point VZ	Post, Structure 11.
928	Point WA	Post, Structure 11.
929	Point WB	Post, Structure 11.

Feature	Field Designation	Comments
930	Point WD	Post, Structure 11.
931	Point WE	Post, Structure 11.
932	Point WF	Post, Structure 11.
933	Point WG	Post, Structure 11.
934	Point WH	Post, Structure 11.
935	Point WI	Post, Structure 11.
936	Point WK	Post, Structure 13.
937	Point WL	Post, Structure 13.
938	Point WM	Post, Structure 13.
939	Point WN	Post, Structure 13.
940	Point WO	Post, Structure 13.
941	Point WP	Post, Structure 13.
942	Point WQ	Post, Structure 13.
943	Point WR	Post, Structure 13.
944	Point WS	Post, Structure 13.
945	Point WT	Post, Structure 13.
946	Point WU	Post, Structure 13.
947	Point WV	Post, Structure 13.
948	Point WW	Post, Structure 13.
949	Point WX	Post, Structure 13.
950	Point WY	Post, Structure 13.
951	Point WZ	Post, Structure 13.
952	Point XA	Post, Structure 13.
953	Point XB	Post, Structure 13.
954	Point XC	Post, Structure 13.
955	Point XD	Post, Structure 13.
956	Point XE	Post, Structure 13.
957	Point XF	Post, Structure 13.
958	Point XG	Post, Structure 13.
959	Point XH	Post, Structure 13.
960	Point XI	Post, Structure 13.
961	Point XJ	Post, Structure 13.
962	Point XK	Post, Structure 13.
963	Point XL	Post, Structure 13.
964	Point XM	Post, Structure 13.
965	Point XN	Post, Structure 13.
966	Point XO	Post, Structure 13.
967	Point XP	Post, Structure 13.
968	Point XQ	Post, Structure 13.
969	Point XR	Post, Structure 13.
970	Point XS	Post, Structure 13.
971	Point XT	Post, Structure 13.
972	Point XU	Post, Structure 13.
973	Point XV	Post, Structure 13.
974	Point XW	Post, Structure 13.
975	Point XX	Post, Structure 13.
976	Point XY	Post, Structure 13.
977	Point XZ	Post, Structure 13.
978	Point YA	Post, Structure 13.
979	Point YB	Post, Structure 13.
980	Point YC	Post, Structure 13.
981	Point YD	Post, Structure 13.
982	Point YE	Post, Structure 13.
983	Point YF	Post, Structure 13.
984	Point YG	Post, Structure 13.
985	Point YH	Post, Structure 13.
986	Point YI	Post, Structure 13.
987	Point YJ	Post, Structure 13.
988	Point YK	Post, Structure 13.

Feature	Field Designation	Comments
989	Point YL	Post, Structure 13.
990	Point YM	Post, Structure 13.
991	Point YN	Post, Structure 13.
992	Point YO	Post, Structure 13.
993	Point YP	Post, Structure 13.
994	Point YR	Post, Structure 13.
995	Point YS	Post, Structure 13.
996	Point YT	Post, Structure 13.
997	Point YU	Post, Structure 13.
998	Point YV	Post, Structure 13.
999	Point YW	Post, Structure 13.
1000	Point YX	Post, Structure 13.
1001	Point YY	Post, Structure 13.
1002	Point YZ	Post, Structure 13.
1003	Point ZA	Post, Structure 13.
1004	Point ZB	Post, Structure 13.
1005	Point ZC	Post, Structure 13.
1006	Point ZD	Post, Structure 13.
1007	Point ZE	Post, Structure 14.
1008	Point ZF	Post, Structure 14.
1009	Point ZG	Post, Structure 14.
1010	Point ZH	Post, Structure 14.
1011	Point ZI	Post, Structure 14.
1012	Point ZJ	Post, Structure 14.
1013	Point ZK	Post, Structure 14.
1014	Point ZL	Post, Structure 14.
1015	Point ZM	Post, Structure 14.
1016	Point ZN	Post, Structure 14.
1017	Point ZO	Post, Structure 14.
1018	Point ZP	Post, Structure 14.
1019	Point ZQ	Ceramic vessel B, Structure 14.
1020	Point ZR	Ceramic vessel A, Structure 14.
1021	Point ZS	Post, Structure 14.
1022	Point ZT	Post, Structure 14.
1023	Point ZU	Post, Structure 14.
1024	Point ZV	Post, Structure 14.
1025	Point ZW	Post, Structure 14.
1026	Point ZX	Post, Structure 14.
1027	Point ZY	Post, Structure 14.
1028	Point ZZ	Post, Structure 14.
1029	Point AAH	Post, Structure 15.
1030	Point AAI	Post, Structure 15.
1031	Point AAJ	Post, Structure 15.
1032	Point AAK	Post, Structure 15.
1033	Point AAL	Post, Structure 15.
1034	Point AAM	Post, Structure 15.
1035	Point AAN	Post, Structure 15.
1036	Point AAO	Post, Structure 15.
1037	Point AAP	Post, Structure 15.
1038	Point AAQ	Post, Structure 15.
1039	Point AAR	Post, Structure 15.
1040	Point AAS	Post, Structure 15.
1041	Point AAT	Post, Structure 15.
1042	Point AAU	Post, Structure 15.
1043	Point AAV	Post, Structure 15.
1044	Point AAW	Post, Structure 15.
1045	Point AAX	Post, Structure 15.
1046	Point AAY	Post, Structure 15.
1047	Point AAZ	Post.

Feature	Field Designation	Comments
1048	Point ABA	Post, Structure 15.
1049	Point ABB	Post, Structure 15.
1050	Point ABE	Post, Structure 15.
1051	Point ABF	Post, Structure 15.
1052	Point ABG	Post, Structure 15.
1053	Point ABH	Post, Structure 15.
1054	Point ABI	Post, Structure 15.
1055	Point ABJ	Post, Structure 15.
1056	Point ABK	Post, Structure 15.
1057	Point ABL	Post, Structure 15.
1058	Point ABM	Post, Structure 15.
1059	Point ABN	Post, Structure 15.
1060	Point ABO	Post, Structure 15.
1061	Point ABP	Post, Structure 15.
1062	Point ABQ	Post, Structure 15.
1063	Point ABR	Post, Structure 15.
1064	Point ABS	Post, Structure 15.
1065	Point ABT	Post, Structure 15.
1066	Point ABU	Post, Structure 15.
1067	Point ABV	Post, Structure 15.
1068	Point ABW	Post, Structure 15.
1069	Point ABX	Post, Structure 15.
1070	Point ABY	Post, Structure 15.
1071	Point ABZ	Post, Structure 15.
1072	Point ACA	Post, Structure 15.
1073	Point ACB	Post, Structure 15.
1074	Point ACC	Post, Structure 15.
1075	Point ACD	Post, Structure 15.
1076	Point ACE	Post, Structure 15.
1077	Point ACF	Post, Structure 12.
1078	Point ACG	Post, Structure 12.
1079	Point ACH	Post, Structure 12.
1080	Point ACI	Ceramic vessel, Structure 12.
1081	Point ACJ	Hearth, Structure 12.
1082	Point ACK	Post, Structure 12.
1083	Point ACL	Post, Structure 12.
1084	Point ACM	Post, Structure 12.
1085	Point ACN	Post, Structure 12.
1086	Point ACO	Post, Structure 12.
1087	Point ACP	Post, Structure 12.
1088	Point ACQ	Post, Structure 12.
1089	Point ACR	Post, Structure 12.
1090	Point ACS	Post, Structure 12.
1091	Point ACT	Post, Structure 12.
1092	Point ACU	Post, Structure 12.
1093	Point ACV	Post, Structure 12.
1094	Point ACW	Post, Structure 12.
1095	Point ACX	Post, Structure 12.
1096	Point ACY	Post, Structure 12.
1097	Point ACZ	Post, Structure 12.
1098	Point ADA	Post, Structure 12.
1099	Point ADB	Post, Structure 12.
1100	Point ADC	Post, Structure 12.
1101	Point ADD	Post, Structure 12.
1102	Point ADG	Post, Structure 16.
1103	Point ADH	Post, Structure 16.
1104	Point ADI	Post, Structure 16.
1105	Point ADJ	Post, Structure 16.
1106	Point ADK	Post, Structure 16.

Feature	Field Designation	Comments
1107	Point ADL	Post, Structure 16.
1108	Point ADM	Post, Structure 16.
1109	Point ADN	Post, Structure 16.
1110	Point ADO	Post, Structure 16.
1111	Point ADP	Post, Structure 16.
1112	Point ADQ	Post, Structure 16.
1113	Point ADT	Post, Structure 16.
1114	Point ADU	Probable post, Structure 16.
1115	Point ADV	Small pit feature, outside Structure 16.
1116	Point ADW	Small pit feature, outside Structure 16.
1117	Point ADX	Post, Structure 16.
1118	Point ADY	Post, Structure 16.
1119	Point ADZ	Post, Structure 16.
1120	Point AEA	Post, Structure 16.
1121	Point AEB	Post, Structure 16.
1122	Point AEC	Post, Structure 16.
1123	Point AED	Post, Structure 16.
1124	Point AEE	Post, Structure 16.
1125	Point AEF	Post, Structure 16.
1126	Point AEG	Post, Structure 16.
1127	Point AEH	Post, Structure 16.
1128	Point AEI	Post, Structure 16.
1129	Point AEJ	Post, Structure 16.
1130	Point AEK	Post, Structure 16.
1131	Point AEL	Post, Structure 16.
1132	Point AEM	Post, Structure 16.
1133	Point AEN	Post, Structure 16.
1134	Point AEP	Post, Structure 16.
1135	Point AEQ	Post, Structure 16.
1136	Point AER	Post, Structure 16.
1137	Point AES	Post, Structure 16.
1138	Point AET	Post, Structure 16.
1139	Point AEU	Post, Structure 16.
1140	Point AEV	Post, Structure 16.
1141	Point AEW	Post, Structure 16.
1142	Point AEX	Post, Structure 16.
1143	Point AEY	Post, Structure 16.
1144	Point AEZ	Post, Structure 16.
1145	Point AFA	Post, Structure 16.
1146	Point AFB	Post, Structure 16.
1147	Point AFC	Post, Structure 16.
1148	Point AFD	Post, Structure 16.
1149	Point AFE	Post, Structure 16.
1150	Point AFF	Post, Structure 16.
1151	Point AFG	Post, Structure 16.
1152	Point AFH	Post, Structure 16.
1153	Point AFI	Post, Structure 16.
1154	Point AFJ	Post, Structure 16.
1155	Point AFK	Post, Structure 16.
1156	Point AFL	Post, Structure 16.
1157	Point AFM	Post, Structure 16.
1158	Point AFN	Post, Structure 16.
1159	Point AFO	Post, Structure 16.
1160	Point AFP	Post, Structure 16.
1161	Point AFQ	Post, Structure 16.
1162	Point AFR	Post, Structure 16.
1163	Point AFS	Post, Structure 16.
1164	Point AFT	Post, Structure 16.
1165	Point AFU	Post, Structure 17.

Feature	Field Designation	Comments
1166	Point AFV	Post, Structure 17.
1167	Point AFW	Post, Structure 17.
1168	Point AFX	Post, Structure 17.
1169	Point AFY	Post, Structure 17.
1170	Point AFZ	Post, Structure 17.
1171	Point AGA	Post, Structure 17.
1172	Point AGB	Post, Structure 17.
1173	Point AGE	Post, Structure 17.
1174	Point AGF	Post, Structure 17.
1175	Point AGG	Post, Structure 17.
1176	Point AGH	Post, Structure 17.
1177	Point AGI	Post, Structure 17.
1178	Point AGJ	Post, Structure 17.
1179	Point AGK	Post, Structure 17.
1180	Point AGL	Post, Structure 17.
1181	Point AGM	Post, Structure 17.
1182	Point AGN	Post, Structure 17.
1183	Point AGO	Post, Structure 17.
1184	Point AGP	Post, Structure 17.
1185	Point AGQ	Post, Structure 17.
1186	Point AGR	Post, Structure 17.
1187	Point AGS	Post, Structure 17.
1188	Point AGT	Burned limestone, Structure 17.
1189	Point AGU	Post, Structure 17.
1190	Point AGV	Post, Structure 17.
1191	Point AGW	Post, Structure 17.
1192	Point AGX	Post, Structure 17.
1193	Point AGY	Post, Structure 17.
1194	Point AGZ	Post, Structure 17.
1195	Point AHA	Post, Structure 17.
1196	Point AHB	Post, Structure 17.
1197	Point AHC	Post, Structure 17.
1198	Point AHD	Post, Structure 17.
1199	Point AHE	Post, Structure 17.
1200	Point AHF	Post, Structure 17.
1201	Point AHG	Post, Structure 17.
1202	Point AHH	Post, Structure 17.
1203	Point AHI	Post, Structure 17.
1204	Point AHJ	Post, Structure 17.
1205	Point AHK	Post, Structure 17.
1206	Point AHL	Post, Structure 17.
1207	Point AHM	Post, Structure 17.
1208	Point AHN	Post, Structure 17.
1209	Point AHO	Post, Structure 17.
1210	Point AHP	Post, Structure 17.
1211	Point AHQ	Post, Structure 17.
1212	Point AHR	Post, Structure 17.
1213	Point AHS	Post, Structure 17.
1214	Point AHT	Post, Structure 17.
1215	Point AHU	Post, Structure 17.
1216	Point AHV	Post, Structure 17.
1217	Point AHW	Post, Structure 17.
1218	Point AHX	Post, Structure 17.
1219	Point AHY	Post, Structure 17.
1220	Point AHZ	Post, Structure 17.
1221	Point AIA	Post, Structure 17.
1222	Point AIB	Post, Structure 17.
1223	Point AIC	Post, Structure 17.
1224	Point AID	Post, Structure 17.

Feature	Field Designation	Comments
1225	Point AIE	Post, Structure 17.
1226	Point AIF	Post, Structure 17.
1227	Point AIG	Post, Structure 17.
1228	Point AIH	Post, Structure 17.
1229	Point AII	Post, Structure 17.
1230	Point AIJ	Post, Structure 17.
1231	Point AIK	Post, Structure 18.
1232	Point AIL	Post, Structure 18.
1233	Point AIM	Post, Structure 18.
1234	Point AIN	Post, Structure 18.
1235	Point AIO	Post, Structure 18.
1236	Point AIP	Post, Structure 18.
1237	Point AIQ	Post, Structure 18.
1238	Point AIR	Post, Structure 18.
1239	Point AIS	Post, Structure 18.
1240	Point AIT	Post, Structure 18.
1241	Point AIU	Post, Structure 18.
1242	Point AIV	Post, Structure 18.
1243	Point AIW	Post, Structure 18.
1244	Point AIX	Post, Structure 18.
1245	Point AIY	Post, Structure 18.
1246	Point AIZ	Post, Structure 18.
1247	Point AJA	Post, Structure 18.
1248	Point AJB	Post, Structure 18.
1249	Point AJC	Post, Structure 18.
1250	Point AJD	Post, Structure 18.
1251	Point AJE	Post, Structure 18.
1252	Point AJF	Post, Structure 18.
1253	Point AJG	Post, Structure 18.
1254	Point AJH	Post, Structure 18.
1255	Point AJI	Post, Structure 18.
1256	Point AJJ	Post, Structure 18.
1257	Point AJK	Post, Structure 18.
1258	Point AJL	Post, Structure 18.
1259	Point AJM	Post, Structure 18.
1260	Point AJN	Post, Structure 18.
1261	Point AJO	Post, Structure 18.
1262	Point AJP	Post, Structure 18.
1263	Point AJQ	Post, Structure 18.
1264	Point AJR	Post, Structure 18.
1265	Point AJS	Post, Structure 18.
1266	Point AJT	Post, Structure 18.
1267	Point AJU	Post, Structure 18.
1268	Point AJV	Post, Structure 18.
1269	Point AJW	Post, Structure 18.
1270	Point AJX	Post, Structure 18.
1271	Point AJY	Post, Structure 18.
1272	Point AJZ	Post, Structure 18.
1273	Point AKA	Post, Structure 18.
1274	Point AKB	Post, Structure 18.
1275	Point AKE	Post, Structure 18.
1276	Point AKF	Post, Structure 18.
1277	Point AKG	Post, Structure 18.
1278	Point AKH	Post, Structure 18.
1279	Point AKI	Post, Structure 18.
1280	Point AKJ	Post, Structure 18.
1281	Point AKK	Post, Structure 18.
1282	Point AKL	Post, Structure 18.
1283	Point AKM	Post, Structure 18.

Feature	Field Designation	Comments
1284	Point AKN	Post, Structure 18.
1285	Point AKO	Post, Structure 18.
1286	Point AKP	Post, Structure 18.
1287	Point AKQ	Post, Structure 18.
1288	Point AKR	Post, Structure 18.
1289	Point AKS	Post, Structure 18.
1290	Point AKT	Post, Structure 18.
1291	Point AKU	Post, Structure 18.
1292	Point AKV	Post, Structure 18.
1293	Point AKW	Post, Structure 18.
1294	Point AKX	Post, Structure 18.
1295	Point AKY	Post, Structure 18.
1296	Point AKZ	Post, Structure 18.
1297	Point ALA	Post, Structure 18.
1298	Point ALB	Post, Structure 18.
1299	Point ALC	Post, Structure 18.
1300	Point ALD	Post, Structure 18.
1301	Point ALE	Post, Structure 18.
1302	Point ALF	Post, Structure 18.
1303	Point ALG	Post, Structure 18.
1304	Point ALH	Post, Structure 18.
1305	Point ALI	Post, Structure 18.
1306	Point ALJ	Burned limestone cluster, Structure 18.
1307	Point ALK	Post, Structure 18.
1308	Point ALL	Post, Structure 18.
1309	Point ALM	Post, Structure 18.
1310	Point ALN	Post, Structure 18.
1311	Point ALO	Post, Structure 18.
1312	Point ALP	Post, Structure 18.
1313	Point ALQ	Post, Structure 18.
1314	Point ALR	Post, Structure 18.
1315	Point ALS	Post, Structure 18.
1316	Point ALT	Post, Structure 18.
1317	Point ALU	Post, Structure 18.
1318	Point ALV	Post, Structure 18.
1319	Point ALW	Post, Structure 18.
1320	Point ALX	Post, Structure 19.
1321	Point ALY	Post, Structure 19.
1322	Point ALZ	Post, Structure 19.
1323	Point AMA	Post, Structure 19.
1324	Point AMB	Post, Structure 19.
1325	Point AMC	Post, Structure 19.
1326	Point AMD	Post, Structure 19.
1327	Point AME	Post, Structure 19.
1328	Point AMF	Post, Structure 19.
1329	Point AMG	Post, Structure 19.
1330	Point AMH	Post, Structure 19.
1331	Point AMI	Post, Structure 19.
1332	Point AMJ	Post, Structure 19.
1333	Point AMK	Post, Structure 19.
1334	Point AML	Post, Structure 19.
1335	Point AMM	Post, Structure 19.
1336	Point AMN	Post, Structure 19.
1337	Point AMO	Post, Structure 19.
1338	Point AMP	Post, Structure 19.
1339	Point AMQ	Post, Structure 19.
1340	Point AMR	Post, Structure 19.
1341	Point AMS	Post, Structure 19.
1342	Point AMT	Post, Structure 19.

Feature	Field Designation	Comments
1343	Point AMU	Post, Structure 19.
1344	Point AMV	Post, Structure 19.
1345	Point AMW	Post, Structure 19.
1346	Point AMX	Post, Structure 19.
1347	Point AMY	Post, Structure 19.
1348	Point AMZ	Post, Structure 19.
1349	Point ANA	Post, Structure 19.
1350	Point ANB	Post, Structure 19.
1351	Point ANC	Post, Structure 19.
1352	Point AND	Post, Structure 19.
1353	Point ANE	Post, Structure 19.
1354	Point ANF	Post, Structure 19.
1355	Point ANG	Post, Structure 19.
1356	Point ANH	Post, Structure 19.
1357	Point ANI	Post, Structure 19.
1358	Point ANJ	Post, Structure 19.
1359	Point ANK	Post, Structure 19.
1360	Point ANL	Post, Structure 19.
1361	Point ANM	Post, Structure 19.
1362	Point ANN	Post, Structure 19.
1363	Point ANO	Post, Structure 19.
1364	Point ANP	Post, Structure 19.
1365	Point ANQ	Post, Structure 19.
1366	Point ANR	Post, Structure 19.
1367	Point ANS	Post, Structure 19.
1368	Point ANT	Post, Structure 19.
1369	Point ANU	Post, Structure 19.
1370	Point ANV	Post, Structure 19.
1371	Point ANW	Post, Structure 19.
1372	Point ANX	Post, Structure 19.
1373	Point ANY	Post, Structure 19.
1374	Point ANZ	Post, Structure 19.
1375	Point AOA	Post, Structure 19.
1376	Point AOB	Post, Structure 19.
1377	Point AOC	Post, Structure 19.
1378	Point AOD	Post, Structure 19.
1379	Point AOE	Post, Structure 19.
1380	Point AOF	Post, Structure 19.
1381	Point AOG	Post, Structure 19.
1382	Point AOH	Post, Structure 19.
1383	Point AOI	Post, Structure 19.
1384	Point AOJ	Post, Structure 19.
1385	Point AOK	Post, Structure 19.
1386	Point AOM	Post, Structure 19.
1387	Point AON	Post, Structure 19.
1388	Point AOO	Post, Structure 19.
1389	Point AOP	Hearth, Structure 19.
1390	Point AOQ	Pit feature.
1391	Point AOR	Post, Structure 19.
1392	Point AOS	Post, Structure 19.
1393	Point AOT	Post, Structure 19.
1394	Point AOU	Post, Structure 19.
1395	Point AOV	Post, Structure 19.
1396	Point AOW	Post, Structure 19.
1397	Point AOX	Pit feature, near Structure 66.
1398	Point AOZ	Pit feature, near Structure 66.
1399	Point APA	Pit feature, near Structure 66.
1400	Point APB	Pit feature, near Structure 66.
1401	Point APD	Pit feature, near Structure 41.

Feature	Field Designation	Comments
1402	Point APE	Pit feature, near Structure 41.
1403	Point APF	Pit feature, near Structure 41.
1404	Point APH	Post, Structure 20.
1405	Point API	Post, Structure 20.
1406	Point APJ	Post, Structure 20.
1407	Point APK	Post, Structure 20.
1408	Point APL	Post, Structure 20.
1409	Point APM	Post, Structure 20.
1410	Point APN	Post, Structure 20.
1411	Point APO	Post, Structure 20.
1412	Point APP	Post, Structure 20.
1413	Point APQ	Post, Structure 20.
1414	Point APR	Post, Structure 20.
1415	Point APS	Post, Structure 20.
1416	Point APT	Post, Structure 20.
1417	Point APU	Post, Structure 20.
1418	Point APV	Post, Structure 20.
1419	Point APW	Post, Structure 20.
1420	Point APX	Post, Structure 20.
1421	Point APY	Post, Structure 20.
1422	Point APZ	Post, Structure 20.
1423	Point AQA	Post, Structure 20.
1424	Point AQB	Post, Structure 20.
1425	Point AQC	Post, Structure 20.
1426	Point AQD	Post, Structure 20.
1427	Point AQE	Post, Structure 20.
1428	Point AQF	Post, Structure 20.
1429	Point AQG	Post, Structure 20.
1430	Point AQH	Post, Structure 20.
1431	Point AQI	Post, Structure 20.
1432	Point AQJ	Post, Structure 20.
1433	Point AQK	Post, Structure 20.
1434	Point AQL	Post, Structure 20.
1435	Point AQM	Post, Structure 20.
1436	Point AQN	Post, Structure 20.
1437	Point AQO	Post, Structure 20.
1438	Point AQP	Post, Structure 20.
1439	Point AQQ	Post, Structure 20.
1440	Point AQR	Post, Structure 20.
1441	Point AQS	Post, Structure 20.
1442	Point AQT	Post, Structure 20.
1443	Point AQU	Post, Structure 20.
1444	Point AQV	Newborn inside ceramic vessel (Burial 74), Structure 20.
1445	Point AQW	Post, Structure 20.
1446	Point AQX	Post, Structure 20.
1447	Point AQY	Post, Structure 20.
1448	Point AQZ	Post, Structure 20.
1449	Point ARA	Post, Structure 20.
1450	Point ARB	Post, Structure 20.
1451	Point ARC	Post, Structure 20.
1452	Point ARD	Post, Structure 20.
1453	Point ARE	Post, Structure 20.
1454	Point ARF	Post, Structure 20.
1455	Point ARG	Post, Structure 20.
1456	Point ARJ	Post, Structure 20.
1457	Point ARK	Post, Structure 20.
1458	Point ARL	Post, Structure 20.
1459	Point ARM	Post, Structure 20.
1460	Point ARN	Post, Structure 20.

Feature	Field Designation	Comments
1461	Point ARO	Post, Structure 20.
1462	Point ARP	Post, Structure 20; double post with Feature 1463.
1463	Point ARQ	Post, Structure 20; double post with Feature 1462.
1464	Point ARR	Post, Structure 20.
1465	Point ARS	Post, Structure 20.
1466	Point ART	Post, Structure 20.
1467	Point ARU	Post, Structure 20.
1468	Point ARV	Post, Structure 20.
1469	Point ARW	Post, Structure 20.
1470	Point ARX	Post, Structure 20.
1471	Point ARY	Post, Structure 20.
1472	Point ARZ	Post, Structure 20.
1473	Point ASA	Post, Structure 20.
1474	Point ASB	Post, Structure 20.
1475	Point ASC	Post.
1476	Point ASD	Post, Structure 21.
1477	Point ASE	Post, Structure 21.
1478	Point ASF	Post, Structure 21.
1479	Point ASG	Post, Structure 21.
1480	Point ASH	Post, Structure 21.
1481	Point ASI	Post, Structure 21.
1482	Point ASJ	Post, Structure 21.
1483	Point ASK	Post, Structure 21.
1484	Point ASL	Post, Structure 21.
1485	Point ASM	Post, Structure 21.
1486	Point ASN	Post, Structure 21.
1487	Point ASO	Post, Structure 21.
1488	Point ASP	Post, Structure 21.
1489	Point ASQ	Post, Structure 21.
1490	Point ASR	Post, Structure 21.
1491	Point ASS	Post, Structure 21.
1492	Point AST	Post, Structure 21.
1493	Point ASU	Post, Structure 21.
1494	Point ASV	Post, Structure 21.
1495	Point ASW	Post, Structure 21?
1496	Point ASX	Post, Structure 21?
1497	Point ASY	Post, Structure 21.
1498	Point ASZ	Post, Structure 21.
1499	Point ATA	Post, Structure 21.
1500	Point ATB	Post, Structure 21.
1501	Point ATC	Post, Structure 21.
1502	Point ATD	Post, Structure 21.
1503	Point ATE	Post, Structure 21.
1504	Point ATF	Post, Structure 21.
1505	Point ATG	Post, Structure 21?
1506	Point ATH	Post, Structure 21.
1507	Point ATI	Post, Structure 21.
1508	Point ATJ	Post, Structure 21.
1509	Point ATK	Post, Structure 21.
1510	Point ATL	Post, Structure 22.
1511	Point ATM	Post, Structure 22.
1512	Point ATN	Post, Structure 22.
1513	Point ATO	Post, Structure 22.
1514	Point ATP	Post, Structure 22.
1515	Point ATQ	Post, Structure 22.
1516	Point ATR	Post, Structure 22.
1517	Point ATS	Post, Structure 22.
1518	Point ATT	Post, Structure 22.
1519	Point ATU	Post, Structure 22.

Feature	Field Designation	Comments
1520	Point ATV	Post, Structure 22.
1521	Point ATW	Post, Structure 22.
1522	Point ATX	Post, Structure 22.
1523	Point ATY	Post, Structure 22.
1524	Point ATZ	Post, Structure 22.
1525	Point AUA	Post, Structure 22.
1526	Point AUB	Post, Structure 22.
1527	Point AUC	Post, Structure 22.
1528	Point AUD	Post, Structure 22.
1529	Point AUE	Post, Structure 22.
1530	Point AUF	Post, Structure 22.
1531	Point AUG	Post, Structure 22.
1532	Point AUH	Post, Structure 22.
1533	Point AUI	Post, Structure 22.
1534	Point AUJ	Post, Structure 22.
1535	Point AUK	Post, Structure 22.
1536	Point AUL	Post, Structure 22.
1537	Point AUM	Post, Structure 22.
1538	Point AUN	Post, Structure 22.
1539	Point AUO	Post, Structure 22.
1540	Point AUP	Post, Structure 22.
1541	Point AUQ	Post, Structure 22.
1542	Point AUR	Post, Structure 22.
1543	Point AUS	Post.
1544	Point AUT	Post, Structure 22.
1545	Point AUU	Post, Structure 22.
1546	Point AUV	Post, Structure 22.
1547	Point AUW	Post, Structure 22.
1548	Point AUX	Post, Structure 22.
1549	Point AUY	Post, Structure 22.
1550	Point AUZ	Post, Structure 22.
1551	Point AVA	Post, Structure 22.
1552	Point AVB	Post, Structure 22.
1553	Point AVC	Post, Structure 22.
1554	Point AVD	Post, Structure 22.
1555	Point AVE	Post, Structure 22.
1556	Point AVF	Post, Structure 22.
1557	Point AVG	Pit feature, near Structure 22.
1558	Point AVH	Post, Structure 23.
1559	Point AVI	Post, Structure 23.
1560	Point AVJ	Post, Structure 23.
1561	Point AVK	Post, Structure 23.
1562	Point AVL	Post, Structure 23.
1563	Point AVM	Post, Structure 23.
1564	Point AVN	Post, Structure 23.
1565	Point AVO	Post, Structure 23.
1566	Point AVP	Post, Structure 23.
1567	Point AVQ	Post, Structure 23.
1568	Point AVR	Post, Structure 23.
1569	Point AVS	Post, Structure 23.
1570	Point AVT	Post, Structure 23.
1571	Point AVU	Post, Structure 23.
1572	Point AVV	Post, Structure 23.
1573	Point AVW	Post, Structure 23.
1574	Point AVX	Post, Structure 23.
1575	Point AVY	Post, Structure 23.
1576	Point AVZ	Post, Structure 23.
1577	Point AWA	Post, Structure 23.
1578	Point AWB	Post, Structure 23.

Feature	Field Designation	Comments
1579	Point AWC	Post, Structure 23.
1580	Point AWD	Post, Structure 23.
1581	Point AWE	Post, Structure 23.
1582	Point AWF	Post, Structure 23.
1583	Point AWG	Post, Structure 23.
1584	Point AWH	Post, Structure 23.
1585	Point AWI	Post, Structure 23.
1586	Point AWJ	Post, Structure 23.
1587	Point AWK	Post, Structure 23.
1588	Point AWL	Post, Structure 23.
1589	Point AWM	Post, Structure 23.
1590	Point AWN	Post, Structure 23.
1591	Point AWO	Post, Structure 23.
1592	Point AWP	Post, Structure 23.
1593	Point AWQ	Post, Structure 23.
1594	Point AWR	Post, Structure 23.
1595	Point AWS	Post, Structure 23.
1596	Point AWT	Post, Structure 23.
1597	Point AWU	Post, Structure 23.
1598	Point AWV	Post, Structure 23.
1599	Point AWX	Post, Structure 23.
1600	Point AWY	Post, Structure 23.
1601	Point AWZ	Post, Structure 23.
1602	Point AXA	Post, Structure 23.
1603	Point AXB	Post, Structure 23.
1604	Point AXC	Post, Structure 23.
1605	Point AXD	Post, Structure 23.
1606	Point AXE	Post, Structure 23.
1607	Point AXF	Post, Structure 23.
1608	Point AXG	Post, Structure 23.
1609	Point AXH	Post, Structure 23.
1610	Point AXI	Post, Structure 23.
1611	Point AXJ	Post, Structure 23.
1612	Point AXK	Post, Structure 23.
1613	Point AXL	Post, Structure 24.
1614	Point AXM	Post, Structure 24.
1615	Point AXN	Post, Structure 24.
1616	Point AXO	Post, Structure 24.
1617	Point AXP	Post, Structure 24.
1618	Point AXQ	Post, Structure 24.
1619	Point AXR	Post, Structure 24.
1620	Point AXS	Post, Structure 24.
1621	Point AXT	Post, Structure 24.
1622	Point AXU	Post, Structure 24.
1623	Point AXV	Post, Structure 24.
1624	Point AXW	Post, Structure 24.
1625	Point AXX	Post, Structure 24.
1626	Point AXY	Post, Structure 24.
1627	Point AXZ	Post, Structure 24.
1628	Point AYA	Post, Structure 24.
1639	Point AYB	Post, Structure 24.
1630	Point AYC	Post, Structure 24.
1631	Point AYD	Post, Structure 24.
1632	Point AYE	Post, Structure 24.
1633	Point AYF	Post, Structure 24.
1634	Point AYG	Post, Structure 24.
1635	Point AYH	Post, Structure 24.
1636	Point AYI	Post, Structure 24.
1637	Point AYJ	Post, Structure 24.

Feature	Field Designation	Comments
1638	Point AYK	Post, Structure 24.
1639	Point AYN	Post, Structure 24.
1640	Point AYO	Post, Structure 24.
1641	Point AYP	Post, Structure 24.
1642	Point AYQ	Post, Structure 24.
1643	Point AYR	Post, Structure 24.
1644	Point AYS	Post, Structure 24.
1645	Point AYT	Post, Structure 24.
1646	Point AYU	Post, Structure 24.
1647	Point AYV	Post, Structure 24.
1648	Point AYW	Post, Structure 24.
1649	Point AYX	Post, Structure 24.
1650	Point AYY	Post, Structure 24.
1651	Point AYZ	Post, Structure 24.
1652	Point AZA	Post, Structure 24.
1653	Point AZB	Post, Structure 24.
1654	Point AZC	Post, Structure 24.
1655	Point AZD	Post, Structure 24.
1656	Point AZE	Post, Structure 24.
1657	Point AZF	Post, Structure 24.
1658	Point AZG	Post, Structure 24.
1659	Point AZH	Post, Structure 24.
1660	Point AZI	Post, Structure 24.
1661	Point AZJ	Post, Structure 24.
1662	Point AZK	Post, Structure 24.
1663	Point AZL	Post, Structure 24.
1664	Point AZM	Post, Structure 24.
1665	Point AZN	Post, Structure 24.
1666	Point AZO	Post, Structure 24.
1667	Point AZP	Post, Structure 24.
1668	Point AZQ	Post, Structure 24.
1669	Point AZR	Post, Structure 24.
1670	Point AZS	Post, Structure 24.
1671	Point AZT	Post, Structure 24.
1672	Point AZU	Post, Structure 24.
1673	Point AZV	Post, Structure 24.
1674	Point AZW	Post, Structure 24.
1675	Point AZX	Post, Structure 24.
1676	Point AZY	Post, Structure 24.
1677	Point AZZ	Post, Structure 24.
1678	Point BAA	Post, Structure 24.
1679	Point BAB	Post, Structure 24.
1680	Point BAC	Post, Structure 24.
1681	Point BAD	Post, Structure 24.
1682	Point BAE	Post, Structure 24.
1683	Point BAF	Post, Structure 24.
1684	Point BAG	Post, Structure 24.
1685	Point BAH	Post, Structure 24.
1686	Point BAI	Hearth, Structure 24.
1687	Point BAJ	Burned limestone feature, Structure 24.
1688	Point BAK	Post, Structure 24.
1689	Point BAL	Post, Structure 24.
1690	Point BAM	Post, Structure 24.
1691	Point BAN	Post, Structure 24.
1692	Point BAO	Post, Structure 24.
1693	Point BAP	Burned limestone feature, Structure 24.
1694	Point BAQ	Burned limestone feature, Structure 24.
1695	Point BAR	Post, Structure 24.
1696	Point BAS	Post, Structure 24.

Feature	Field Designation	Comments
1697	Point BAT	Burned limestone feature, Structure 24.
1698	Point BAU	Post, Structure 24.
1699	Point BAV	North hearth, Structure 25.
1700	Point BAW	South hearth, Structure 25.
1701	Point BAX	Post, Structure 25.
1702	Point BAY	Post, Structure 25.
1703	Point BAZ	Post, Structure 25.
1704	Point BBA	Post, Structure 25.
1705	Point BBB	Post, Structure 25.
1706	Point BBC	Post, Structure 25.
1707	Point BBD	Post, Structure 25.
1708	Point BBE	Post, Structure 25.
1709	Point BBF	Post, Structure 25.
1710	Point BBG	Post, Structure 25.
1711	Point BBJ	Post, Structure 25.
1712	Point BBK	Post, Structure 25.
1713	Point BBL	Post, Structure 25.
1714	Point BBM	Post, Structure 25.
1715	Point BBN	Post, Structure 25.
1716	Point BBO	Post, Structure 25.
1717	Point BBP	Post, Structure 25.
1718	Point BBQ	Post, Structure 25.
1719	Point BBR	Post, Structure 25.
1720	Point BBS	Post, Structure 25.
1721	Point BBT	Post, Structure 25.
1722	Point BBU	Post, Structure 25.
1723	Point BBV	Post, Structure 25.
1724	Point BBW	Post, Structure 25.
1725	Point BBX	Post, Structure 25.
1726	Point BBY	Post, Structure 25.
1727	Point BBZ	Post, Structure 25.
1728	Point BCA	Post, Structure 25.
1729	Point BCB	Post, Structure 25.
1730	Point BCC	Post, Structure 25.
1731	Point BCD	Post, Structure 25.
1732	Point BCE	Post, Structure 25.
1733	Point BCF	Post, Structure 25.
1734	Point BCG	Post, Structure 25.
1735	Point BCH	Post, Structure 25.
1736	Point BCI	Post, Structure 25.
1737	Point BCJ	Post, Structure 25.
1738	Point BCK	Post, Structure 26.
1739	Point BCL	Post, Structure 26.
1740	Point BCM	Post, Structure 26.
1741	Point BCN	Post, Structure 26.
1742	Point BCO	Post, Structure 26.
1743	Point BCP	Post, Structure 26.
1744	Point BCQ	Post, Structure 26.
1745	Point BCR	Post, Structure 26.
1746	Point BCS	Post, Structure 26.
1747	Point BCT	Post, Structure 26.
1748	Point BCU	Post.
1749	Point BCV	Post, Structure 26.
1750	Point BCW	Post, Structure 26.
1751	Point BCX	Post, Structure 26.
1752	Point BCY	Post, Structure 26.
1753	Point BCZ	Post, Structure 26.
1754	Point BDA	Post, Structure 26.
1755	Point BDB	Post, Structure 26.

Feature	Field Designation	Comments
1756	Point BDC	Post, Structure 26.
1757	Point BDD	Post, Structure 26.
1758	Point BDE	Post, Structure 26.
1759	Point BDF	Post, Structure 26.
1760	Point BDG	Post, Structure 26.
1761	Point BDH	Post, Structure 26.
1762	Point BDI	Post, Structure 26.
1763	Point BDJ	Post, Structure 26?
1764	Point BDK	Post, Structure 26?
1765	Point BDL	Post, Structure 26?
1766	Point BDM	Post, Structure 26?
1767	Point BDN	Pit feature, Structure 26 area.
1768	Point BDP	Post, Structure 26.
1769	Point BDQ	Post, Structure 26.
1770	Point BDR	Post, Structure 26.
1771	Point BDS	Post, Structure 26.
1772	Point BDT	Post, Structure 26.
1773	Point BDU	Post, Structure 26.
1774	Point BDX	Pit feature.
1775	Point BDZ	Pit feature.
1776	Point BEA	Pit feature.
1777	Point BEB	Post, Structure 27.
1778	Point BEB’	Post, Structure 27.
1779	Point BEC	Post, Structure 27.
1780	Point BED	Post, Structure 27.
1781	Point BEE	Post, Structure 27.
1782	Point BEF	Post, Structure 27.
1783	Point BEG	Post, Structure 27.
1784	Point BEH	Post, Structure 27.
1785	Point BEI	Post, Structure 27.
1786	Point BEJ	Post, Structure 27.
1787	Point BEK	Post, Structure 27.
1788	Point BEL	Post, Structure 27.
1789	Point BEM	Post, Structure 27.
1790	Point BEN	Post, Structure 27.
1791	Point BEO	Post.
1792	Point BER	Pit feature, outside Structure 28.
1793	Point BES	Post, Structure 28.
1794	Point BET	Post, Structure 28.
1795	Point BEU	Post, Structure 28.
1796	Point BEV	Post, Structure 28.
1797	Point BEW	Post, Structure 28.
1798	Point BEX	Post, Structure 28.
1799	Point BEY	Post.
1800	Point BEZ	Post.
1801	Point BFC	Post, Structure 28.
1802	Point BFD	Post, Structure 28.
1803	Point BFE	Post, Structure 28.
1804	Point BFF	Post, Structure 28.
1805	Point BFG	Post, Structure 28.
1806	Point BFH	Post.
1807	Point BFI	Post.
1808	Point BFJ	Post.
1809	Point BFK	Post, Structure 30.
1810	Point BFL	Post, Structure 30.
1811	Point BFM	Post, Structure 30.
1812	Point BFN	Post, Structure 30.
1813	Point BFO	Post, Structure 30.
1814	Point BFP	Post, Structure 30.

Feature	Field Designation	Comments
1815	Point BFQ	Post, Structure 30.
1816	Point BFR	Post, Structure 30.
1817	Point BFS	Post, Structure 30.
1818	Point BFT	Post, Structure 30.
1819	Point BFU	Post, Structure 30.
1820	Point BFV	Post, Structure 30.
1821	Point BFW	Post, Structure 30.
1822	Point BFX	Post, Structure 30.
1823	Point BFY	Post, Structure 30.
1824	Point BFZ	Post, Structure 30.
1825	Point BGA	Post, Structure 30.
1826	Point BGB	Post, Structure 30.
1827	Point BGC	Post, Structure 30.
1828	Point BGD	Post, Structure 30.
1829	Point BGE	Post, Structure 30.
1830	Point BGF	Post, Structure 30.
1831	Point BGG	Post, Structure 30.
1832	Point BGH	Post, Structure 31.
1833	Point BGI	Post, Structure 31.
1834	Point BGJ	Post, Structure 31.
1835	Point BGK	Post, Structure 31.
1836	Point BGL	Post, Structure 31.
1837	Point BGM	Post, Structure 31.
1838	Point BGN	Post, Structure 31.
1839	Point BGO	Post, Structure 31.
1840	Point BGP	Post, Structure 31.
1841	Point BGQ	Post, Structure 31.
1842	Point BGR	Post, Structure 32.
1843	Point BGS	Post, Structure 32.
1844	Point BGT	Post, Structure 32.
1845	Point BGU	Post, Structure 32.
1846	Point BGV	Post, Structure 32.
1847	Point BGW	Post, Structure 32.
1848	Point BGX	Post, Structure 32.
1849	Point BGY	Post, Structure 32.
1850	Point BGZ	Post, Structure 32.
1851	Point BHA	Post, Structure 32.
1852	Point BHB	Post, Structure 32.
1853	Point BHL	Post, Structure 29.
1854	Point BHM	Post, Structure 29.
1855	Point BHN	Post, Structure 29.
1856	Point BHO	Post, Structure 29.
1857	Point BHP	Pit feature, Structure 29.
1858	Point BHQ	Pit feature, Structure 29.
1859	Point BHR	Post, Structure 29.
1860	Point BHS	Post, Structure 29.
1861	Point BHT	Post, Structure 29.
1862	Point BHU	Post, Structure 29.
1863	Point BHV	Post, Structure 29.
1864	Point BHW	Post, Structure 29.
1865	Point BHX	Post, Structure 29.
1866	Point BHY	Post, Structure 29.
1867	Point BHZ	Post, Structure 29.
1868	Point BIA	Post, Structure 29.
1869	Point BIB	Post, Structure 29.
1870	Point BIC	Post, Structure 29.
1871	Point BID	Post, Structure 29.
1872	Point BIE	Post, Structure 29.
1873	Point BIF	Post, Structure 29.

Feature	Field Designation	Comments
1874	Point BIL	Post, Structure 33.
1875	Point BIM	Post, Structure 33.
1876	Point BIN	Post, Structure 33.
1877	Point BIO	Post, Structure 33.
1878	Point BIP	Post, Structure 33.
1879	Point BIQ	Post, Structure 33.
1880	Point BIR	Post, Structure 33.
1881	Point BIS	Post, Structure 33.
1882	Point BIT	Post, Structure 33.
1883	Point BIU	Post, Structure 33.
1884	Point BIV	Post, Structure 33.
1885	Point BIW	Post, Structure 33.
1886	Point BIX	Post, Structure 33.
1887	Point BIY	Post, Structure 33.
1888	Point BIZ	Post, Structure 33.
1889	Point BJA	Post, Structure 33.
1890	Point BJB	Post, Structure 33.
1891	Point BJC	Post, Structure 33.
1892	Point BJD	Post, Structure 33.
1893	Point BJE	Post, Structure 33.
1894	Point BJF	Post, Structure 33.
1895	Point BJG	Post, Structure 33.
1896	Point BJH	Post, Structure 33.
1897	Point BJJ	Post, Structure 28.
1898	Point BJK	Post, Structure 34.
1899	Point BJL	Post, Structure 34.
1900	Point BJM	Post, Structure 34.
1901	Point BJN	Post, Structure 34.
1902	Point BJO	Post, Structure 34.
1903	Point BJP	Post, Structure 34.
1904	Point BJQ	Post, Structure 34.
1905	Point BJR	Post, Structure 34.
1906	Point BJS	Post, Structure 34.
1907	Point BJT	Post, Structure 34.
1908	Point BJU	Post, Structure 34.
1909	Point BJV	Post, Structure 34.
1910	Point BJW	Post, Structure 34.
1911	Point BJX	Post, Structure 34.
1912	Point BJY	Post, Structure 34.
1913	Point BKA	Hearth, Structure 35; also designated DOA #2528 (point 35).
1914	Point BKC	Hearth, Structure 37; partially exposed.
1915	Point BKD	Post, Structure 37.
1916	Point BKE	Post, Structure 37.
1917	Point BKF	Post, Structure 37.
1918	Point BKG	Pit feature, near Structure 37 hearth.
1919	Point BKH	Post, Structure 67.
1920	Point BKI	Post, Structure 36.
1921	Point BKJ	Post, Structure 36.
1922	Point BKK	Post, Structure 36.
1923	Point BKL	Post, Structure 36.
1924	Point BKM	Post, Structure 36.
1925	Point BKN	Post, Structure 36.
1926	Point BKO	Post, Structure 36.
1927	Point BKP	Post, Structure 36.
1928	Point BKQ	Post, Structure 36.
1929	Point BKR	Post, Structure 36.
1930	Point BKS	Post, Structure 36.
1931	Point BKT	Post, Structure 36.
1932	Point BKU	Post, Structure 36.

Feature	Field Designation	Comments
1933	Point BKV	Post, Structure 36.
1934	Point BKW	Post, Structure 36.
1935	Point BKX	Post, Structure 36.
1936	Point BKY	Post, Structure 36.
1937	Point BKZ	Post, Structure 36.
1938	Point BLA	Post, Structure 36.
1939	Point BLB	Post, Structure 36.
1940	Point BLC	Post, Structure 36.
1941	Point BLD	Post, Structure 36.
1942	Point BLE	Post, Structure 36.
1943	Point BLF	Post, Structure 36.
1944	Point BLG	Post, Structure 36.
1945	Point BLH	Post, Structure 36.
1946	Point BLI	Post, Structure 36.
1947	Point BLJ	Post, Structure 36.
1948	Point BLK	Post, Structure 36.
1949	Point BLL	Post, Structure 36.
1950	Point BLM	Post, Structure 36.
1951	Point BLN	Post, Structure 36.
1952	Point BLO	Post, Structure 36.
1953	Point BLP	Post, Structure 36.
1954	Point BLQ	Post, Structure 36.
1955	Point BLR	Post, Structure 36.
1956	Point BLS	Post, Structure 36.
1957	Point BLT	Post, Structure 36.
1958	Point BLU	Post, Structure 36.
1959	Point BLV	Post, Structure 36.
1960	Point BLW	Post, Structure 36.
1961	Point BLX	Post, Structure 36.
1962	Point BLY	Post, Structure 36.
1963	Point BLZ	Post, Structure 36.
1964	Point BMA	Post, Structure 36.
1965	Point BMB	Post, Structure 36.
1966	Point BMC	Post, Structure 36.
1967	Point BMD	Post, Structure 36.
1968	Point BME	Post, Structure 36.
1969	Point BMF	Burned limestone feature, Structure 36.
1970	Point BMG	Limestone, possible post, Structure 36.
1971	Point BMH	Post, Structure 67.
1972	Point BMI	Post, Structure 67.
1973	Point BMJ	Post, Structure 67.
1974	Point BMK	Post, Structure 67.
1975	Point BML	Post, Structure 67.
1976	Point BMM	Post, Structure 67.
1977	Point BMN	Post, Structure 67.
1978	Point BMO	Post, Structure 67.
1979	Point BMP	Post, Structure 67.
1980	Point BMQ	Post, Structure 36.
1981	Point BMR	Post, Structure 36.
1982	Point BMS	Post, Structure 36.
1983	Point BMT	Post, Structure 36.
1984	Point BMU	Post, Structure 36.
1985	Point BMV	Post, Structure 36.
1986	Point BMW	Post, Structure 36.
1987	Point BMX	Post, Structure 36.
1988	Point BMY	Post, Structure 36.
1989	Point BMZ	Post, Structure 36.
1990	Point BNA	Post, Structure 36.
1991	Point BNB	Post, Structure 36.

Feature	Field Designation	Comments
1992	Point BNC	Post, Structure 36.
1993	Point BND	Post, Structure 36.
1994	Point BNE	Post, Structure 36.
1995	Point BNF	Post, Structure 36.
1996	Point BNG	Post, Structure 36.
1997	Point BNH	Post, Structure 36.
1998	Point BNI	Post, Structure 36.
1999	Point BNJ	Post, Structure 36.
2000	Point BNK	Post, Structure 36.
2001	Point BNL	Post, Structure 36.
2002	Point BNM	Post, Structure 36.
2003	Point BNN	Post, Structure 36.
2004	Point BNO	Post, Structure 36.
2005	Point BNP	Post, Structure 36.
2006	Point BNQ	Post, Structure 36.
2007	Point BNR	Post, Structure 36.
2008	Point BNS	Post, Structure 36.
2009	Point BNT	Post, Structure 36.
2010	Point BNU	Post, Structure 36.
2011	Point BNV	Post, Structure 36.
2012	Point BNW	Post, Structure 36.
2013	Point BNX	Post, Structure 36.
2014	Point BNY	Post, Structure 36.
2015	Point BNZ	Post, Structure 36.
2016	Point BOA	Post, Structure 36.
2017	Point BOB	Post, Structure 36.
2018	Point BOC	Post, Structure 36.
2019	Point BOD	Post, Structure 36.
2020	Point BOE	Post, Structure 36.
2021	Point BOF	Post, Structure 36.
2022	Point BOG	Post, Structure 36.
2023	Point BOH	Post, Structure 36.
2024	Point BOI	Post, Structure 36.
2025	Point BOJ	Post, Structure 36.
2026	Point BOK	Post, Structure 36.
2027	Point BOL	Post, Structure 36.
2028	Point BOM	Post, Structure 36.
2029	Point BON	Post, Structure 36.
2030	Point BOO	Post, Structure 36.
2031	Point BOP	Post, Structure 36.
2032	Point BOQ	Post, Structure 36.
2033	Point BOR	Post.
2034	Point BOS	Post, Structure 38.
2035	Point BOT	Post, Structure 38.
2036	Point BOU	Post, Structure 38.
2037	Point BOV	Post, Structure 38.
2038	Point BOW	Post, Structure 38.
2039	Point BOX	Post, Structure 38.
2040	Point BOY	Post, Structure 38.
2041	Point BOZ	Post, Structure 38.
2042	Point BPA	Post, Structure 38.
2043	Point BPB	Post, Structure 38.
2044	Point BPC	Post, Structure 38.
2045	Point BPD	Post, Structure 38.
2046	Point BPE	Post, Structure 38.
2047	Point BPF	Post, Structure 38.
2048	Point BPG	Post, Structure 38.
2049	Point BPH	Post, Structure 38.
2050	Point BPI	Post, Structure 38.

Feature	Field Designation	Comments
2051	Point BPJ	Post, Structure 38.
2052	Point BPK	Post, Structure 38.
2053	Point BPL	Post, Structure 38.
2054	Point BPM	Post, Structure 38.
2055	Point BPN	Post, Structure 38.
2056	Point BPO	Post, Structure 38.
2057	Point BPP	Post, Structure 38.
2058	Point BPQ	Post, Structure 38.
2059	Point BPR	Hearth, Structure 38.
2060	Point BPS	Post, Structure 38.
2061	Point BPT	Post, Structure 38.
2062	Point BPU	Post, Structure 38.
2063	Point BPV	Post, Structure 38.
2064	Point BPW	Post.
2065	Point BPX	Post.
2066	Point BPY	Post.
2067	Point BPZ	Post.
2068	Point BQA	Post.
2069	Point BQB	Post.
2070	Point BQC	Post.
2071	Point BQD	Post.
2072	Point BQE	Post.
2073	Point BQF	Post.
2074	Point BQG	Post.
2075	Point BQH	Post.
2076	Point BQI	Post, Structure 39.
2077	Point BQJ	Post, Structure 39.
2078	Point BQK	Post, Structure 39.
2079	Point BQL	Post, Structure 39.
2080	Point BQM	Post, Structure 39.
2081	Point BQN	Post, Structure 39.
2082	Point BQO	Post, Structure 39.
2083	Point BQP	Post, Structure 39.
2084	Point BQQ	Post, Structure 39.
2085	Point BQR	Post, Structure 39.
2086	Point BQS	Post, Structure 39.
2087	Point BQT	Post, Structure 39.
2088	Point BQU	Post, Structure 39.
2089	Point BQV	Post, Structure 39.
2090	Point BQW	Post, Structure 39.
2091	Point BQX	Post, Structure 39.
2092	Point BQY	Post, Structure 39.
2093	Point BQZ	Post, Structure 39.
2094	Point BRA	Post, Structure 39.
2095	Point BRB	Post, Structure 39.
2096	Point BRC	Post, Structure 39.
2097	Point BRD	Post, Structure 39.
2098	Point BRE	Post, Structure 40?
2099	Point BRF	Post, Structure 40?
2100	Point BRG	Post, Structure 40?
2101	Point BRH	Post, Structure 40?
2102	Point BRI	Post, Structure 40?
2103	Point BRJ	Post, Structure 40.
2104	Point BRK	Post, Structure 40.
2105	Point BRL	Post, Structure 40.
2106	Point BRM	Post, Structure 40.
2107	Point BRN	Post, Structure 40.
2108	Point BRO	Post, Structure 40.
2109	Point BRP	Post, Structure 40.

Feature	Field Designation	Comments
2110	Point BRQ	Post, Structure 40.
2111	Point BRR	Post, Structure 40.
2112	Point BRS	Post, Structure 40.
2113	Point BRT	Post, Structure 40.
2114	Point BRU	Post, Structure 40.
2115	Point BRV	Post, Structure 40.
2116	Point BRW	Post, Structure 40.
2117	Point BRX	Post, Structure 40.
2118	Point BRY	Post, Structure 40.
2119	Point BRZ	Post, Structure 40.
2120	Point BSA	Post, Structure 40.
2121	Point BSB	Post, Structure 40.
2122	Point BSC	Post, Structure 40.
2123	Point BSD	Post, Structure 40.
2124	Point BSE	Post, Structure 40.
2125	Point BSF	Post, Structure 40.
2126	Point BSG	Post, Structure 40.
2127	Point BSH	Post, Structure 40.
2128	Point BSI	Pit feature, near Structure 40.
2129	Point BSK	Pit feature, near Structure 40, also designated DOA #69.
2130	Point BSL	Post, Structure 41.
2131	Point BSM	Post, Structure 41.
2132	Point BSN	Post, Structure 41.
2133	Point BSO	Post, Structure 41.
2134	Point BSP	Post, Structure 41.
2135	Point BSQ	Post, Structure 41.
2136	Point BSR	Post, Structure 41.
2137	Point BSS	Post, Structure 41.
2138	Point BST	Post, Structure 41.
2139	Point BSU	Post, Structure 41.
2140	Point BSV	Post, Structure 41.
2141	Point BSW	Post, Structure 41.
2142	Point BSX	Post, Structure 41.
2143	Point BSY	Post, Structure 41.
2144	Point BSZ	Post, Structure 41; edge of pit feature 46.
2145	Point BTA	Post, Structure 41.
2146	Point BTB	Post, Structure 41.
2147	Point BTC	Post, Structure 41.
2148	Point BTD	Post, Structure 41.
2149	Point BTE	Post, Structure 41.
2150	Point BTF	Post, Structure 41.
2151	Point BTG	Post, Structure 41.
2152	Point BTH	Post, Structure 41.
2153	Point BTI	Post, Structure 41.
2154	Point BTJ	Post.
2155	Point BTK	Post.
2156	Point BTL	Post.
2157	Point BTM	Post.
2158	Point BTN	Post.
2159	Point BTO	Post, Structure 66.
2160	Point BTP	Pit feature, near Structure 66.
2161	Point BTQ	Post, Structure 66.
2162	Point BTR	Post, Structure 66.
2163	Point BTS	Pit feature, near Structure 66.
2164	Point BTT	Post, Structure 66.
2165	Point BTU	Post, Structure 66.
2166	Point BTV	Post, Structure 66.
2167	Point BTW	Post, Structure 66.
2168	Point BTX	Post, Structure 66.

Feature	Field Designation	Comments
2169	Point BTY	Post, Structure 66.
2170	Point BTZ	Post, Structure 66.
2171	Point BUA	Pit feature.
2172	Point BUC	Post.
2173	Point BUD	Post.
2174	Point BUE	Pit feature.
2175	Point BUF	Pit feature.
2176	Point BUG	Pit feature.
2177	Point BUH	Post, Structure 5.
2178	Point BUI	Post, Structure 5.
2179	Point BUJ	Post, Structure 5.
2180	Point BUK	Post, Structure 5.
2181	Point BUL	Post, Structure 5?
2182	Hearth #5, point BUM	Hearth, Structure 5.
2183	Point BUN	Pit feature, overlaps Feature 58.
2184	Point BUR	Post, Structure 43.
2185	Point BUS	Post, Structure 43.
2186	Point BUT	Post, Structure 43.
2187	Point BUU	Post, Structure 43.
2188	Point BUV	Post, Structure 43.
2189	Point BUW	Post, Structure 43.
2190	Point BUX	Post, Structure 43.
2191	Point BUY	Post, Structure 43.
2192	Point BUZ	Post, Structure 43.
2193	Point BVA	Post, Structure 43.
2194	Point BVB	Post, Structure 43.
2195	Point BVC	Post, Structure 43.
2196	Point BVD	Post, Structure 43.
2197	Point BVE	Post, Structure 43.
2198	Point BVF	Post, Structure 43.
2199	Point BVG	Post, Structure 43.
2200	Hearth #9, point BVI	Hearth.
2201	Point BVJ	Pit feature.
2202	Point BVK	Pit feature.
2203	Point BVL	Pit feature.
2204	Point BVM	Pit feature, outside Structure 42.
2205	Point BVN	Post, Structure 42.
2206	Point BVO	Post, Structure 42.
2207	Point BVP	Post, Structure 42.
2208	Point BVQ	Post, Structure 42.
2209	Point BVR	Post, Structure 42.
2210	Point BVS	Post, Structure 42.
2211	Point BVT	Post, Structure 42.
2212	Point BVU	Post, Structure 42.
2213	Point BVV	Post, Structure 42.
2214	Point BVW	Post, Structure 42.
2215	Point BVX	Post, Structure 42.
2216	Point BVY	Post, Structure 42.
2217	Point BVZ	Post, Structure 42.
2218	Point BWA	Post, Structure 42.
2219	Point BWB	Post, Structure 42.
2220	Point BWC	Post, Structure 42.
2221	Point BWD	Post, Structure 42.
2222	Point BWE	Post, Structure 42.
2223	Point BWF	Post, Structure 42.
2224	Point BWG	Post, Structure 42.
2225	Point BWH	Post, Structure 42.
2226	Point BWI	Post, Structure 42.
2227	Point BWJ	Post, Structure 42.

Feature	Field Designation	Comments
2228	Point BWK	Post, Structure 42.
2229	Point BWL	Post, Structure 42.
2230	Point BWM	Post, Structure 42.
2231	Point BXA	Post, Structure 44.
2232	Point BXB	Post, Structure 44.
2233	Point BXC	Post, Structure 44.
2234	Point BXD	Post, Structure 44.
2235	Point BXE	Post, Structure 44.
2236	Point BXF	Post, Structure 44.
2237	Point BXG	Post, Structure 44.
2238	Point BXH	Post, Structure 44.
2239	Point BXI	Post, Structure 44.
2240	Point BXJ	Post, Structure 44.
2241	Point BXK	Post, Structure 44.
2242	Point BXL	Post, Structure 44.
2243	Point BXM	Post, Structure 44.
2244	Point BXN	Post, Structure 44.
2245	Point BXO	Post, Structure 44.
2246	Point BXP	Post, Structure 44.
2247	Point BXQ	Post, Structure 44.
2248	Point BXR	Post, Structure 44.
2249	Point BXS	Post, Structure 44.
2250	Point BXV	Pit feature, limestone-filled.
2251	Point BXW	Pit feature, limestone-filled.
2252	Point BYA	Post, Structure 45.
2253	Point BYB	Post, Structure 45.
2254	Point BYC	Post, Structure 45.
2255	Point BYD	Post, Structure 45.
2256	Point BYE	Post, Structure 45.
2257	Point BYF	Post, Structure 45.
2258	Point BYG	Post, Structure 45.
2259	Point BYH	Post, Structure 45.
2260	Point BYI	Post, Structure 45.
2261	Point BYJ	Post, Structure 45.
2262	Point BYK	Post, Structure 45.
2263	Point BYL	Post, Structure 45.
2264	Point BYM	Post, Structure 45.
2265	Point BYN	Post, Structure 45.
2266	Point BYO	Post, Structure 45.
2267	Point BYP	Post, Structure 45.
2268	Point BYQ	Post, Structure 45.
2269	Point BYR	Post, Structure 45.
2270	Point BYS	Post, Structure 45.
2271	Point BYT	Post, Structure 45.
2272	Point BYU	Post, Structure 45.
2273	Point BYV	Post, Structure 45.
2274	Point BYW	Post, Structure 46.
2275	Point BYX	Post, Structure 46.
2276	Point BYY	Post, Structure 46.
2277	Point BYZ	Post, Structure 46.
2278	Point BZA	Post, Structure 46.
2279	Point BZB	Post, Structure 46.
2280	Point BZC	Post, Structure 46.
2281	Point BZD	Post, Structure 46.
2282	Point BZE	Post, Structure 46.
2283	Point BZF	Post, Structure 46.
2284	Point BZG	Post, Structure 46.
2285	Point BZH	Post, Structure 46.
2286	Point BZI	Post, Structure 46.

Feature	Field Designation	Comments
2287	Point BZJ	Post, Structure 46.
2288	Point BZK	Post, Structure 46.
2289	Point BZL	Post, Structure 46.
2290	Point BZM	Post, Structure 46.
2291	Point BZN	Post, Structure 46.
2292	Point BZO	Post, Structure 46.
2293	Point BZP	Post, Structure 46.
2294	Point BZQ	Pit feature (historic), near Structure 46.
2295	Point BZR	Pit feature (Burial 77).
2296	Point BZS	Post, Structure 47.
2297	Point BZT	Post, Structure 47.
2298	Point BZU	Post, Structure 47.
2299	Point BZV	Post, Structure 47.
2300	Point BZW	Post, Structure 47.
2301	Point BZX	Post, Structure 47.
2302	Point BZY	Post, Structure 47.
2303	Point BZZ	Post, Structure 47.
2304	Point CAA	Post, Structure 47.
2305	Point CAB	Post.
2306	Point CAC	Post.
2307	Point CAD	Post.
2308	Point CAE	Post, Structure 47.
2309	Point CAF	Post, Structure 47.
2310	Point CAG	Post, Structure 47.
2311	Point CAH	Post, Structure 47.
2312	Point CAI	Post, Structure 47.
2313	Point CAK	Post.
2314	Point CAL	Post.
2315	Point CBA	Post, Structure 48.
2316	Point CBB	Post, Structure 48.
2317	Point CBC	Post, Structure 48.
2318	Point CBD	Post, Structure 48.
2319	Point CBE	Post, Structure 48.
2320	Point CBF	Post, Structure 48.
2321	Point CBG	Post, Structure 48.
2322	Point CBH	Post, Structure 48.
2323	Point CBI	Post, Structure 48.
2324	Point CBJ	Post, Structure 48.
2325	Point CBK	Post, Structure 48.
2326	Point CBL	Post, Structure 48.
2327	Point CBM	Post, Structure 48.
2328	Point CBN	Post, palisade.
2329	Point CBO	Post, palisade.
2330	Point CBQ	Post, Structure 48.
2331	Point CBR	Post, Structure 48.
2332	Point CBS	Post, Structure 48.
2333	Point CBT	Post, Structure 48.
2334	Point CBU	Post, Structure 48.
2335	Point CBV	Post, Structure 48.
2336	Point CBW	Post, Structure 48.
2337	Point CBX	Post, Structure 48.
2338	Point CBY	Post, Structure 48.
2339	Point CBZ	Post, Structure 48.
2340	Point CCA	Post, Structure 48.
2341	Point CCB	Post, Structure 48.
2342	Point CCC	Post, Structure 48.
2343	Point CCD	Post, Structure 48.
2344	Point CCE	Post, Structure 48.
2345	Point CCF	Post, Structure 48.

Feature	Field Designation	Comments
2346	Point CCG	Post, Structure 48.
2347	Point CCK	Post, interior palisade.
2348	Point CCM	Post.
2349	Point CCT	Post.
2350	Point CCU	Post.
2351	Point CCV	Post.
2352	Point CCW	Post.
2353	Point CCX	Post, Structure 61.
2354	Point CCY	Post, Structure 61.
2355	Point CCZ	Post, Structure 61.
2356	Point CDB	Post, Structure 61?
2357	Point CDC	Post, Structure 61.
2358	Point CDD	Post, Structure 61.
2359	Point CDF	Post, Structure 61.
2360	Point CDG	Post, Structure 61.
2361	Point CDH	Post, Structure 61.
2362	Point CDI	Post, Structure 61.
2363	Point CDJ	Post, Structure 61.
2364	Point CDL	Post, Structure 61.
2365	Point CDT	Post, Structure 49.
2366	Point CDU	Post, Structure 49.
2367	Point CDV	Post, Structure 49.
2368	Point CDW	Post, Structure 49.
2369	Point CDX	Post, Structure 49.
2370	Point CDY	Post, Structure 49.
2371	Point CDZ	Post, Structure 49.
2372	Point CEA	Post, Structure 49.
2373	Point CEB	Post, Structure 49.
2374	Point CEC	Post, Structure 49.
2375	Point CED	Post, Structure 49.
2376	Point CEE	Post, Structure 49.
2377	Point CEF	Post, Structure 49.
2378	Point CEG	Post, Structure 49.
2379	Point CEH	Post, Structure 49.
2380	Point CEI	Post, Structure 49.
2381	Point CEJ	Post, Structure 49.
2382	Point CEK	Post, Structure 49.
2383	Point CEL	Post, Structure 49.
2384	Point CEM	Post, Structure 49.
2385	Point CEN	Post, Structure 49.
2386	Point CEO	Post, Structure 49.
2387	Point CEP	Post, Structure 49.
2388	Point CEQ	Post, Structure 49.
2389	Point CER	Post, Structure 49.
2390	Point CES	Post, Structure 49.
2391	Point CET	Post, Structure 49.
2392	Point CEU	Post, Structure 49.
2393	Point CEV	Limestone feature, Structure 49.
2394	Point CEW	Post, Structure 49.
2395	Point CEZ	Post, Structure 49.
2396	Point CFA	Post, Structure 49.
2397	Point CFB	Post, Structure 49.
2398	Point CFC	Post, Structure 49.
2399	Point CFD	Post, Structure 49.
2400	Point CFE	Post, Structure 49.
2401	Point CFF	Post, Structure 49.
2402	Point CFG	Post, Structure 49.
2403	Point CFH	Post, Structure 49.
2404	Point CFI	Post, Structure 49.

Feature	Field Designation	Comments
2405	Point CFJ	Post, Structure 49.
2406	Point CFK	Post, Structure 49.
2407	Point CFL	Post, Structure 49.
2408	Point CFM	Post, Structure 49.
2409	Point CFN	Post, Structure 49.
2410	Point CFO	Post, Structure 49.
2411	Point CFP	Post, Structure 49.
2412	Point CFQ	Hearth, Structure 49.
2413	Point CFS	Post, Structure 49.
2414	Point CFT	Post, Structure 49.
2415	Point CFU	Post, Structure 49.
2416	Point CFV	Post, Structure 49.
2417	Point CFW	Post, Structure 49.
2418	Point CFX	Post, Structure 49.
2419	Point CFY	Post, Structure 49.
2420	Point CFZ	Post, Structure 49.
2421	Point CGA	Post, Structure 49.
2422	Point CGB	Post, Structure 49.
2423	Point CGC	Post, Structure 49.
2424	Point CGD	Post, Structure 49.
2425	Point CGE	Post, Structure 49.
2426	Point CGF	Post, Structure 49.
2427	Point CGG	Post, Structure 49.
2428	Point CGH	Post, Structure 49.
2429	Point CGI	Post, Structure 49.
2430	Point CGJ	Post, Structure 49.
2431	Points CGJ' and CGK	Hearth, Structure 50.
2432	Point CGM	East hearth, Structure 51.
2433	Point CGN	West hearth, Structure 51.
2434	Point CGQ	Ceramic vessel, Structure 51.
2435	Point CGR	Post, Structure 51; support with limestone.
2436	Point CGS	Post, Structure 51.
2437	Point CGT	Post, Structure 51.
2438	Point CGU	Post, Structure 51.
2439	Point CGV	Post, Structure 51.
2440	Point CGW	Post, Structure 51.
2441	Point CGX	Post, Structure 51.
2442	Point CGY	Post, Structure 51.
2443	Point CGZ	Post, Structure 51.
2444	Point CHA	Post, Structure 51.
2445	Point CHB	Post, Structure 51.
2446	Point CHC	Post, Structure 51.
2447	Point CHD	Post, Structure 51.
2448	Point CHE	Post, Structure 51.
2449	Point CHF	Post, Structure 51.
2450	Point CHG	Post, Structure 51.
2451	Point CHH	Post, Structure 51.
2452	Point CHI	Post, Structure 51.
2453	Point CHJ	Post, Structure 51.
2454	Point CHK	Post, Structure 51.
2455	Point CHL	Post, Structure 51.
2456	Point CHM	Post, Structure 51.
2457	Point CHN	Post, Structure 51.
2458	Point CHR	Hearth, Structure 52.
2459	Point CHS	Post, Structure 52.
2460	Point CHT	Post, Structure 53.
2461	Point CHU	Post, Structure 53.
2462	Point CHV	Post, Structure 53.
2463	Point CHW	Post, Structure 53.

Feature	Field Designation	Comments
2464	Point CHX	Post, Structure 53.
2465	Point CHY	Post, Structure 53.
2466	Point CIC	Ceramic vessel, Structure 54.
2467	Point CID	Hearth, Structure 54.
2468	Point CIZ	Post, Structure 55?
2469	Point CJB	Post, Structure 55.
2470	Point CJC	Post, Structure 55.
2471	Point CJD	Post, Structure 55.
2472	Point CJE	Post, Structure 55.
2473	Point CJF	Post, Structure 55.
2474	Point CJG	Post, Structure 55.
2475	Point CJH	Post, Structure 55.
2476	Point CJI	Post, Structure 55.
2477	Point CJJ	Post, Structure 55.
2478	Point CJK	Post, Structure 55.
2479	Point CJS	Post, Structure 56.
2480	Point CJT	Post, Structure 56.
2481	Point CJU	Post, Structure 56.
2482	Point CKB	Hearth, Structure 57.
2483	Point CKC	Post, Structure 57.
2484	Point CKD	Post, Structure 57.
2485	Point CKE	Post, Structure 57.
2486	Point CKF	Post, Structure 57.
2487	Point CKG	Post, Structure 57.
2488	Point CKH	Ceramic vessel, Structure 57.
2489	Point CKL	Post, Structure 57.
2490	Point CKM	Post, Structure 57.
2491	Point CKN	Post.
2492	Point CKO	Post.
2493	Point CKP	Post.
2494	Point 1 (9/27/97)	Post, Structure 35.
2495	Point 2 (9/27/97)	Post, Structure 35.
2496	Point 3 (9/27/97)	Post, Structure 35.
2497	Point 4 (9/27/97)	Post, Structure 35.
2498	Point 5 (9/27/97)	Post, Structure 35.
2499	Point 6 (9/27/97)	Post, Structure 35.
2500	Point 7 (9/27/97)	Post.
2501	Point 8 (9/27/97)	Post.
2502	Point 9 (9/27/97)	Post.
2503	Point 10 (9/27/97)	Post.
2504	Point 11 (9/27/97)	Post.
2505	Point 12 (9/27/97)	Post.
2506	Point 13 (9/27/97)	Post.
2507	Point 14 (9/27/97)	Post.
2508	Point 15 (9/27/97)	Post.
2509	Point 16 (9/27/97)	Post, Structure 35.
2510	Point 17 (9/27/97)	Post, Structure 35.
2511	Point 18 (9/27/97)	Post, Structure 35.
2512	Point 19 (9/27/97)	Post, Structure 35.
2513	Point 20 (9/27/97)	Post, Structure 35.
2514	Point 21 (9/27/97)	Post, Structure 35.
2515	Point 22 (9/27/97)	Post.
2516	Point 23 (9/27/97)	Post.
2517	Point 24 (9/27/97)	Post.
2518	Point 25 (9/27/97)	Post, Structure 35.
2519	Point 26 (9/27/97)	Post, Structure 35.
2520	Point 27 (9/27/97)	Post, Structure 35.
2521	Point 28 (9/27/97)	Post, Structure 59.
2522	Point 29 (9/27/97)	Post, Structure 59.

Feature	Field Designation	Comments
2523	Point 30 (9/27/97)	Post, Structure 59.
2524	Point 31 (9/27/97)	Post, Structure 59.
2525	Point 32 (9/27/97)	Post, Structure 59.
2526	Point 33 (9/27/97)	Post, Structure 35.
2527	Point 34 (9/27/97)	Post.
2528	Point 35 (9/27/97)	Hearth from Structure 35, also designated DOA #1913.
2529	Point MAA	Post, Structure 62.
2530	Point MAB	Post, Structure 62.
2531	Point MAC	Post, Structure 62.
2532	Point MAD	Post, Structure 62.
2533	Point MAE	Post, Structure 62.
2534	Point MAF	Post, Structure 62.
2535	Point MAG	Post, Structure 62.
2536	Point MAH	Post, Structure 62.
2537	Point MAJ	Post, Structure 63.
2538	Point MAK	Post, Structure 63.
2539	Point MAL	Post, Structure 63.
2540	Point MAM	Post, Structure 63.
2541	Point MAN	Post, Structure 63.
2542	Point MAO	Post, Structure 63.
2543	Point MAP	Post, Structure 63.
2544	Point MAQ	Post, Structure 63.
2545	Point MAR	Post, Structure 63.
2546	Point MAS	Post, Structure 63.
2547	Point MAT	Post, Structure 63.
2548	Point MAU	Post.
2549	Point MAV	Post, Structure 64.
2550	Point MAW	Post, Structure 64.
2551	Point MAX	Post, Structure 64.
2552	Point MAY	Post, Structure 64.
2553	Point MAZ	Post, Structure 64.
2554	Point MBA	Post, Structure 64.
2555	Point MBB	Post, Structure 64.
2556	Point MBC	Post, Structure 64.
2557	Point MBD	Post, Structure 64.
2558	Point MBE	Post.
2559	Point MBF	Post.
2560	Point MBG	Post.
2561	Point MBH	Post, Structure 37?
2562	Point MBI	Post, Structure 37?
2563	Point BEX’	Post.
2564	Point CCP’	Post, Structure 46.
2565	Point CCQ’	Post, Structure 46.
2566	Point EW	Post, Structure 2.
2567	Point BZ	Post, Structure 2.

APPENDIX B

FEATURE DESCRIPTIONS

Michael C. Moore

The search for prehistoric human burials within the Brentwood Library construction zone exposed numerous non-mortuary features. Each feature was flagged immediately after discovery to be evaluated at a later time. All designations were examined to assess whether or not they contained human burials. As a general rule, features with a diameter greater than thirty centimeters were cross-sectioned to ascertain their true nature. Feature designations less than thirty centimeters in diameter received little to no additional attention.

Nearly all of the 2567 designations assigned during the 1997 investigations were determined to be of prehistoric origin. Feature 2294 was full of historic debris. Two other designations (Features 7 and 29) were attributed to modern disturbances. Features 17, 57, 575, 1444, and 2295 comprised prehistoric human burials, and have been included with the burial descriptions in Appendix C.

A total of 2559 prehistoric (non-mortuary) cultural features have been included in this appendix. As might be expected, a substantial percentage of the recorded features (n=2368, 92.5%) represent posts associated with the numerous structures (and palisade lines) exposed across the site area. Limited information for these posts has been summarized in Table 37.

The remaining feature sample consisted of 143 pits, 24 hearths, 14 limestone clusters/slabs, and 10 ceramic vessels. Brief descriptions of these features are presented below. Non-mortuary features were not the focus of the Brentwood Library burial removal project. All consultant work on a particular feature would cease once it was determined not to contain human skeletal material. Due to previously mentioned project constraints, mapping and structure assessment held top priority with Division personnel to the detriment of extensive feature evaluations.

Feature 1
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 73.0 cm in diameter.
Profile: Somewhat conical.
Depth: 10.0 cm.
Associated Artifacts:
Ceramics (1): 1 Mississippi Plain.
Remarks: This relatively small pit was discovered within the southeast site area along the border of the library construction zone. Feature 1 was one of seven pits (Features 1, 2, 3, 4, 5, 11, and 12) recorded in a somewhat linear cluster just south of the large modern trash dump.

Feature 2
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 84.0 cm in diameter

Profile: Somewhat basin-shaped with irregular base.
Depth: 8 cm.
Associated Artifacts:
Ceramics (6): 4 Mississippi Plain, 1 negative painted, 1 sand-tempered.
Remarks: Feature 2 comprised the remnant of a pit containing a substantial number of burned limestone rocks. No evidence of burning was noted on the feature walls or base, suggesting the burned materials observed within the pit fill originated from another location. This feature was one of seven pits (Features 1, 2, 3, 4, 5, 11, and 12) recorded in a somewhat linear cluster just south of the large modern trash dump.

Feature 3
Type: Refuse-filled pit.
Plan view and Dimensions: Circular to oval; 68.0 cm in diameter.
Profile: Basin-shaped.
Depth: 6.0 cm.
Associated Artifacts:
Ceramics (1): 1 Mississippi Plain.
Remarks: Only the very bottom of this pit feature was left intact. Very few artifacts were recovered from the pit fill. This feature was one of seven pits (Features 1, 2, 3, 4, 5, 11, and 12) recorded in a somewhat linear cluster just south of the large modern trash dump.

Feature 4
Type: Refuse-filled pit.
Plan view and Dimensions: Roughly circular; 63.0 cm in diameter.
Profile: Basin-shaped.
Depth: 9.0 cm.
Associated Artifacts:
Ceramics (2): 2 Bell Plain.
Remarks: Feature 4 represents the remnant of a refuse-filled pit. This feature was one of seven pits (Features 1, 2, 3, 4, 5, 11, and 12) recorded in a somewhat linear cluster just south of the large modern trash dump.

Feature 5
Type: Pit.
Plan view and Dimensions: Circular; 57.0 cm in diameter.
Profile: Basin-shaped.
Depth: 12.5 cm.
Associated Artifacts: None.
Remarks: This rather small pit yielded no artifacts. Feature 5 was one of seven pits (Features 1, 2, 3, 4, 5, 11, and 12) recorded in a somewhat linear cluster just south of the large modern trash dump.

Feature 6
Type: Refuse-filled pit.
Plan view and Dimensions: Roughly oval; 1.1 meters southwest to northeast, and 1.0 meters southeast to northwest.
Profile: Basin-shaped.
Depth: Unknown.

Associated Artifacts:

Ceramics (33): 24 Mississippi Plain, 6 Bell Plain, 1 unidentified incised, 1 unidentified effigy, 1 quartz-tempered cordmarked.

Lithics (6): 1 primary flake, 4 blank flakes, 1 blocky debris.

Faunal Remains (36): 3 indeterminate mammal fragments, 29 turtle fragments, 4 fish fragments.

Floral Remains: wood charcoal, maize.

Remarks: Feature 6 comprised a refuse-filled pit recorded near the southeast corner of the library building pad. Charred corn-cob fragments were visible within the pit fill prior to excavation.

Feature 8

Type: Refuse-filled pit.

Plan view and Dimensions: Oval; 28.0 cm west to east, and 18.0 cm north to south.

Profile: Unknown.

Depth: 15.0 cm.

Associated Artifacts:

Ceramics (3): 2 Mississippi Plain, 1 Bell Plain.

Lithics (2): 2 blank flakes.

Faunal Remains (1): 1 fish fragment.

Floral Remains: wood charcoal.

Remarks: A substantial amount of charcoal was observed within the fill of this very small pit. Feature 8 was recorded immediately adjacent to the east side of the library building pad.

Feature 9

Type: Refuse-filled pit.

Plan view and Dimensions: Somewhat circular; 1.2 meters in diameter.

Profile: Basin-shaped.

Depth: 15.0 cm.

Associated Artifacts:

Ceramics (97): 62 Mississippi Plain, 28 Bell Plain, 2 Kimmswick Fabric Impressed, 4 Beckwith Incised, 1 human effigy.

Lithics (30): 1 core, 1 primary flake, 5 secondary flakes, 16 blank flakes, 1 modified/utilized flake, 5 blocky debris, 1 metate.

Faunal Remains (98): 5 white-tailed deer, 1 canidae, 2 canis sp., 65 indeterminate mammal fragments, 25 turtle fragments.

Floral Remains: wood charcoal.

Remarks: Feature 9 was recorded as one of a cluster of four pits (Features 9, 17, 38, and 39) just west of Structure 31 and just east of Structure 32.

Feature 10

Type: Refuse-filled pit.

Plan view and Dimensions: Somewhat circular; 96.0 cm in diameter.

Profile: Unknown.

Depth:10.0 cm.

Associated Artifacts:

Ceramics (222): 170 Mississippi Plain, 38 Bell Plain, 1 Kimmswick Fabric Impressed, 3 Kimmswick Plain, 1 Matthews Incised *variety Matthews*, 2 Beckwith Incised, 1 Mound Place Incised, 1 negative painted, 1 frog-effigy, 4 untempered.

Lithics (126): 1 thin biface, 2 primary flakes, 23 secondary flakes, 76 blank flakes, 3 modified/utilized flakes, 2 rejuvenation flakes, 7 blocky debris, 3 projectile points, 1 celt, 1 stone disk, 1 mano.

Faunal Remains (59): 1 white-tailed deer, 2 cricetidae, 3 squirrel species, 45 indeterminate mammal fragments, 1 passerine spp., 2 wild turkey, 1 bird fragment, 3 drumfish, 1 fish fragment.

Floral Remains: wood charcoal, maize.

Remarks: Feature 10 was prolific in the number and types of artifacts recovered from the fill despite its relatively shallow depth. This feature was exposed just south-southwest of Structure 2.

Feature 11

Type: Refuse-filled pit.

Plan view and Dimensions: Oval; 1.8 meters north to south, and 1.6 meters east to west.

Profile: Basin-shaped?

Depth:15.0 cm.

Associated Artifacts:

Ceramics (61): 55 Mississippi Plain, 5 Bell Plain, 1 frog-effigy.

Lithics (2): 2 blank flakes.

Floral Remains: wood charcoal.

Remarks: The pit fill yielded a rather small number of artifacts given its large size. Interestingly, no faunal remains (including shell) were recovered from the fill. This feature was one of seven pits (Features 1, 2, 3, 4, 5, 11, and 12) recorded in a somewhat linear cluster just south of the large modern trash dump.

Feature 12

Type: Refuse-filled pit.

Plan view and Dimensions: Circular; 1.2 meters in diameter.

Profile: Unknown.

Depth: 20.0 cm.

Associated Artifacts:

Ceramics (23): 20 Mississippi Plain, 3 Bell Plain.

Lithics (1): 1 primary flake.

Remarks: Feature 12 was one of seven pits (Features 1, 2, 3, 4, 5, 11, and 12) recorded in a somewhat linear cluster just south of the large modern trash dump.

Feature 13

Type: Pit.

Plan view and Dimensions: Unknown.

Profile: Unknown.

Depth: Unknown.

Associated Artifacts:

Ceramics (17): 16 Mississippi Plain, 1 Bell Plain.

Lithics (2): 1 thin biface, 1 blank flake.

Remarks: This pit, exposed roughly 10 meters west of Structure 10, was inadvertently omitted from the field map. Limited notes regarding this feature indicate the western one-half was removed.

Feature 15

Type: Refuse-filled pit.

Table 37. A Summary List of Posts for the 1997 Investigations. *

Feature	Plan-view	Diameter	Comments
14	circular	35.0	burial removal, Structure 6.
67	circular	22.0	burial removal.
113	circular	18.0	burial removal, Structure 1.
114	circular	19.0	burial removal, Structure 1.
115	circular	18.0	burial removal, Structure 1.
116	circular	20.0	burial removal, Structure 1.
117	circular	17.0	burial removal, Structure 1.
118	circular	19.0	burial removal, Structure 1.
119	circular	20.0	burial removal, Structure 1.
120	circular	17.0	burial removal, Structure 1.
121	circular	16.0	burial removal, Structure 1.
122	circular	16.0	burial removal, Structure 1.
123	circular	17.0	burial removal, Structure 1.
124	circular	14.0	burial removal, Structure 1.
125	circular	14.0	burial removal, Structure 1.
126	circular	16.0	burial removal, Structure 1.
127	circular	24.0	burial removal, Structure 1.
128	circular	26.0	burial removal, Structure 1.
129	circular	16.0	burial removal, Structure 1.
130	circular	15.0	burial removal, Structure 1.
131	circular	12.0	burial removal, Structure 1.
132	circular	14.0	burial removal, Structure 1.
133	circular	12.0	burial removal, Structure 1.
134	circular	16.0	burial removal, Structure 1.
135	circular	13.0	burial removal, Structure 1.
136	circular	20.0	burial removal, Structure 1.
137	circular	16.0	burial removal, Structure 1.
138	circular	27.0	burial removal, Structure 1.
139	circular	17.0	burial removal, Structure 1.
140	circular	17.0	burial removal, Structure 1.
141	circular	16.0	burial removal, Structure 1.
142	circular	19.0	burial removal, Structure 1.
143	circular	11.0	burial removal, Structure 1.
144	circular	18.0	burial removal, Structure 1.
145	circular	13.0	burial removal, Structure 1.
146	circular	17.0	burial removal, Structure 1.
147	circular	20.0	burial removal, Structure 1.
148	circular	20.0	burial removal, Structure 1, center support.
149	circular	14.0	burial removal, Structure 1.
150	circular	30.0	burial removal, Structure 1, center support.
151	circular	10.0	burial removal, Structure 1.
152	circular	10.0	burial removal, Structure 1.
153	circular	23.0	burial removal, Structure 1, center support.
154	circular	16.0	burial removal, Structure 1.
155	circular	14.0	burial removal, Structure 1.
156	circular	13.0	burial removal, Structure 1.
157	circular	16.0	burial removal, Structure 1.
158	circular	14.0	burial removal, Structure 1.
159	circular	25.0	burial removal, Structure 1, center support.
160	circular	12.0	burial removal, Structure 1.
161	circular	16.0	burial removal, Structure 1.
162	circular	19.0	burial removal, Structure 1.
163	circular	19.0	burial removal, Structure 1.
164	circular	16.0	burial removal, Structure 1.
165	circular	19.0	burial removal, Structure 1.
166	circular	14.0	burial removal, Structure 1.
167	circular	13.0	burial removal, Structure 1.
168	circular	13.0	burial removal, Structure 1.
169	circular	17.0	burial removal, Structure 1.
170	circular	10.0	burial removal, Structure 1.
171	circular	16.0	burial removal, Structure 1.
172	circular	12.0	burial removal, Structure 1.
173	circular	17.0	burial removal, Structure 1.
174	circular	22.0	burial removal, Structure 1.
175	circular	17.0	burial removal, Structure 1.

Table 37. A Summary List of Posts for the 1997 Investigations. *

Feature	Plan-view	Diameter	Comments
176	circular	16.0	burial removal, Structure 1.
177	circular	15.0	burial removal, Structure 1.
178	circular	19.0	burial removal, Structure 1.
179	circular	10.0	burial removal, Structure 2.
180	circular	10.0	burial removal, Structure 2.
181	circular	11.0	burial removal, Structure 2.
182	circular	9.0	burial removal, Structure 2.
183	circular	12.0	burial removal, Structure 2.
184	circular	11.0	burial removal, Structure 2.
185	circular	11.0	burial removal, Structure 2.
186	circular	16.0	burial removal, Structure 2.
187	circular	13.0	burial removal, Structure 2.
194	circular	11.0	burial removal, Structure 2.
195	circular	11.0	burial removal, Structure 2.
196	circular	9.0	burial removal, Structure 2.
197	circular	11.0	burial removal, Structure 2.
198	circular	12.0	burial removal, Structure 2.
199	circular	n/a	burial removal, exterior palisade.
200	circular	n/a	burial removal, exterior palisade.
201	circular	n/a	burial removal, exterior palisade.
202	circular	n/a	burial removal, exterior palisade.
203	circular	n/a	burial removal, exterior palisade.
204	circular	n/a	burial removal, exterior palisade.
205	circular	n/a	burial removal, exterior palisade.
206	circular	n/a	burial removal, exterior palisade.
207	circular	n/a	burial removal, exterior palisade.
208	circular	n/a	burial removal, exterior palisade.
209	circular	n/a	burial removal, exterior palisade.
210	circular	n/a	burial removal, exterior palisade.
211	circular	n/a	burial removal, exterior palisade.
212	circular	n/a	burial removal, exterior palisade.
213	circular	n/a	burial removal, exterior palisade.
214	circular	n/a	burial removal, exterior palisade.
215	circular	n/a	burial removal, exterior palisade.
216	circular	n/a	burial removal, exterior palisade.
217	circular	n/a	burial removal, exterior palisade.
218	circular	n/a	burial removal, exterior palisade.
219	circular	n/a	burial removal, exterior palisade.
220	circular	n/a	burial removal, exterior palisade.
221	circular	n/a	burial removal, exterior palisade.
222	circular	n/a	burial removal, exterior palisade.
223	circular	n/a	burial removal, exterior palisade.
224	circular	n/a	burial removal, exterior palisade.
225	circular	n/a	burial removal, exterior palisade.
226	circular	n/a	burial removal, exterior palisade.
227	circular	n/a	burial removal, exterior palisade.
228	circular	n/a	burial removal, exterior palisade.
229	circular	n/a	burial removal, exterior palisade.
230	circular	n/a	burial removal, exterior palisade.
231	circular	n/a	burial removal, exterior palisade.
232	circular	n/a	burial removal, exterior palisade.
233	circular	n/a	burial removal, exterior palisade.
234	circular	n/a	burial removal, exterior palisade.
235	circular	n/a	burial removal, exterior palisade.
236	circular	n/a	burial removal, exterior palisade.
237	circular	n/a	burial removal, exterior palisade.
238	circular	n/a	burial removal, exterior palisade.
239	circular	n/a	burial removal, exterior palisade.
240	circular	n/a	burial removal, exterior palisade.
241	circular	n/a	burial removal, exterior palisade.
242	circular	n/a	burial removal, exterior palisade.
243	circular	n/a	burial removal, exterior palisade.
244	circular	n/a	burial removal, exterior palisade.
245	circular	n/a	burial removal, exterior palisade.
246	circular	n/a	burial removal, exterior palisade.
247	circular	n/a	burial removal, exterior palisade.

Table 37. A Summary List of Posts for the 1997 Investigations. *

Feature	Plan-view	Diameter	Comments
248	circular	n/a	burial removal, exterior palisade.
249	circular	n/a	burial removal, exterior palisade.
250	circular	n/a	burial removal, exterior palisade.
251	circular	n/a	burial removal, exterior palisade.
252	circular	n/a	burial removal, exterior palisade.
253	circular	n/a	burial removal, exterior palisade.
254	circular	n/a	burial removal, exterior palisade.
255	circular	n/a	burial removal, exterior palisade.
256	circular	n/a	burial removal, exterior palisade.
257	circular	n/a	burial removal, exterior palisade.
258	circular	n/a	burial removal, exterior palisade.
259	circular	n/a	burial removal, exterior palisade.
260	circular	n/a	burial removal, exterior palisade.
261	circular	n/a	burial removal, exterior palisade.
262	circular	n/a	burial removal, exterior palisade.
263	circular	n/a	burial removal, exterior palisade.
264	circular	n/a	burial removal, exterior palisade.
265	circular	n/a	burial removal, exterior palisade.
266	circular	n/a	burial removal, exterior palisade.
267	circular	n/a	burial removal, exterior palisade.
268	circular	n/a	burial removal, exterior palisade.
269	circular	n/a	burial removal, exterior palisade.
270	circular	n/a	burial removal, exterior palisade.
271	circular	n/a	burial removal, exterior palisade.
272	circular	n/a	burial removal, exterior palisade.
273	circular	n/a	burial removal, exterior palisade.
274	circular	n/a	burial removal, exterior palisade.
275	circular	n/a	burial removal, exterior palisade.
276	circular	n/a	burial removal, exterior palisade.
277	circular	n/a	burial removal, exterior palisade.
278	circular	n/a	burial removal, exterior palisade.
279	circular	n/a	burial removal, exterior palisade.
280	circular	n/a	burial removal, exterior palisade.
281	circular	n/a	burial removal, exterior palisade.
282	circular	n/a	burial removal, exterior palisade.
283	circular	n/a	burial removal, exterior palisade.
284	circular	n/a	burial removal, exterior palisade.
285	circular	n/a	burial removal, exterior palisade.
286	circular	n/a	burial removal, exterior palisade.
287	circular	n/a	burial removal, exterior palisade.
288	circular	n/a	burial removal, exterior palisade.
289	circular	n/a	burial removal, exterior palisade.
290	circular	n/a	burial removal, exterior palisade.
291	circular	n/a	burial removal, exterior palisade.
292	circular	n/a	burial removal, exterior palisade.
293	circular	n/a	burial removal, exterior palisade.
294	circular	n/a	burial removal, exterior palisade.
295	circular	n/a	burial removal, exterior palisade.
296	circular	n/a	burial removal, exterior palisade.
297	circular	n/a	burial removal, exterior palisade.
298	circular	n/a	burial removal, exterior palisade.
299	circular	n/a	burial removal, exterior palisade.
300	circular	n/a	burial removal, exterior palisade.
301	circular	n/a	burial removal, exterior palisade.
302	circular	n/a	burial removal, exterior palisade.
303	circular	n/a	burial removal, exterior palisade.
304	circular	n/a	burial removal, exterior palisade.
305	circular	n/a	burial removal, exterior palisade.
306	circular	n/a	burial removal, exterior palisade.
307	circular	n/a	burial removal, exterior palisade.
308	circular	n/a	burial removal, exterior palisade.
309	circular	n/a	burial removal, exterior palisade.
310	circular	n/a	burial removal, exterior palisade.
311	circular	n/a	burial removal, exterior palisade.
312	circular	n/a	burial removal, exterior palisade.
313	circular	n/a	burial removal, exterior palisade.

Table 37. A Summary List of Posts for the 1997 Investigations. *

Feature	Plan-view	Diameter	Comments
314	circular	n/a	burial removal, exterior palisade.
315	circular	n/a	burial removal, exterior palisade.
316	circular	n/a	burial removal, exterior palisade.
317	circular	n/a	burial removal, exterior palisade.
318	circular	n/a	burial removal, exterior palisade.
319	circular	n/a	burial removal, exterior palisade.
320	circular	n/a	burial removal, exterior palisade.
321	circular	n/a	burial removal, exterior palisade.
322	circular	n/a	burial removal, exterior palisade.
323	circular	n/a	burial removal, exterior palisade.
324	circular	n/a	burial removal, exterior palisade.
325	circular	n/a	burial removal, exterior palisade.
326	circular	n/a	burial removal, exterior palisade.
327	circular	n/a	burial removal, exterior palisade.
328	circular	n/a	burial removal, exterior palisade.
329	circular	n/a	burial removal, exterior palisade.
330	circular	n/a	burial removal, exterior palisade.
331	circular	n/a	burial removal, exterior palisade.
332	circular	n/a	burial removal, exterior palisade.
333	circular	n/a	burial removal, exterior palisade.
334	circular	n/a	burial removal, exterior palisade.
335	circular	n/a	burial removal, exterior palisade.
336	circular	n/a	burial removal, exterior palisade.
337	circular	n/a	burial removal, exterior palisade.
338	circular	n/a	burial removal, exterior palisade.
339	circular	n/a	burial removal, exterior palisade.
340	circular	n/a	burial removal, exterior palisade.
341	circular	n/a	burial removal, exterior palisade.
342	circular	n/a	burial removal, exterior palisade.
343	circular	n/a	burial removal, exterior palisade.
344	circular	n/a	burial removal, exterior palisade.
345	circular	n/a	burial removal, exterior palisade.
346	circular	n/a	burial removal, exterior palisade.
347	circular	n/a	burial removal, exterior palisade.
348	circular	n/a	burial removal, exterior palisade.
349	circular	n/a	burial removal, exterior palisade.
350	circular	n/a	burial removal, exterior palisade.
351	circular	n/a	burial removal, exterior palisade.
352	circular	n/a	burial removal, exterior palisade.
353	circular	n/a	burial removal, exterior palisade.
354	circular	n/a	burial removal, exterior palisade.
355	circular	n/a	burial removal, exterior palisade.
356	circular	n/a	burial removal, exterior palisade.
357	circular	n/a	burial removal, exterior palisade.
358	circular	n/a	burial removal, exterior palisade.
359	circular	n/a	burial removal, exterior palisade.
360	circular	n/a	burial removal, exterior palisade.
361	circular	n/a	burial removal, exterior palisade.
362	circular	n/a	burial removal, exterior palisade.
363	circular	n/a	burial removal, exterior palisade.
364	circular	n/a	burial removal, exterior palisade.
365	circular	n/a	burial removal, exterior palisade.
366	circular	n/a	burial removal, exterior palisade.
367	circular	n/a	burial removal, exterior palisade.
368	circular	n/a	burial removal, exterior palisade.
369	circular	n/a	burial removal, exterior palisade.
370	circular	n/a	burial removal, exterior palisade.
371	circular	n/a	burial removal, exterior palisade.
372	circular	n/a	burial removal, exterior palisade.
373	circular	n/a	burial removal, interior palisade.
374	circular	18.0	burial removal, Structure 61.
375	circular	n/a	burial removal, interior palisade.
376	circular	17.0	burial removal, Structure 61.
377	circular	14.0	burial removal, Structure 61.
378	circular	13.0	burial removal, Structure 61.
379	circular	n/a	burial removal, interior palisade.

Table 37. A Summary List of Posts for the 1997 Investigations. *

Feature	Plan-view	Diameter	Comments
380	circular	13.0	burial removal, Structure 48.
381	circular	13.0	burial removal, Structure 48.
382	circular	n/a	burial removal, interior palisade.
383	circular	n/a	burial removal, interior palisade.
384	circular	n/a	burial removal, interior palisade.
385	circular	n/a	burial removal.
386	circular	15.0	burial removal, interior palisade.
387	circular	n/a	burial removal, interior palisade.
388	circular	19.0	burial removal, interior palisade.
389	circular	n/a	burial removal, interior palisade.
390	circular	12.0	burial removal, interior palisade.
391	circular	12.0	burial removal, interior palisade.
392	circular	14.0	burial removal, interior palisade.
393	circular	n/a	burial removal, interior palisade bastion.
394	circular	n/a	burial removal, interior palisade bastion.
395	circular	n/a	burial removal, interior palisade bastion.
396	circular	n/a	burial removal, interior palisade bastion.
397	circular	n/a	burial removal, interior palisade bastion.
398	circular	n/a	burial removal, interior palisade bastion.
399	circular	n/a	burial removal, interior palisade bastion.
400	circular	n/a	burial removal, interior palisade bastion.
401	circular	n/a	burial removal, interior palisade bastion.
402	circular	n/a	burial removal, interior palisade bastion.
403	circular	n/a	burial removal, interior palisade bastion.
404	circular	n/a	burial removal, interior palisade bastion.
405	circular	n/a	burial removal, interior palisade bastion.
406	circular	n/a	burial removal, interior palisade bastion.
407	circular	n/a	burial removal, interior palisade.
408	circular	n/a	burial removal, interior palisade.
409	circular	n/a	burial removal, interior palisade.
410	circular	n/a	burial removal, interior palisade.
411	circular	n/a	burial removal, interior palisade.
412	circular	11.0	burial removal, Structure 2.
413	circular	12.0	burial removal, Structure 2.
414	circular	10.0	burial removal, Structure 2.
415	circular	9.0	burial removal, Structure 2.
416	circular	10.0	burial removal, Structure 2.
417	circular	10.0	burial removal, Structure 2.
418	circular	11.0	burial removal, Structure 2.
419	circular	12.0	burial removal, Structure 2.
420	circular	9.0	burial removal, Structure 2.
421	circular	11.0	burial removal, Structure 2.
422	circular	11.0	burial removal, Structure 2.
423	circular	13.0	burial removal, Structure 2.
424	circular	10.0	burial removal, Structure 2.
425	circular	11.0	burial removal, Structure 2.
426	circular	12.0	burial removal, Structure 2.
427	circular	10.0	burial removal, Structure 2.
428	circular	12.0	burial removal, Structure 2.
429	circular	12.0	burial removal, Structure 2.
430	circular	13.0	burial removal, Structure 2.
431	circular	13.0	burial removal, Structure 2.
432	circular	13.0	burial removal, Structure 2.
433	circular	10.0	burial removal, Structure 2.
434	circular	10.0	burial removal, Structure 2.
435	circular	10.0	burial removal, Structure 2.
436	circular	12.0	burial removal, Structure 2.
437	circular	10.0	burial removal, Structure 2.
438	circular	11.0	burial removal, Structure 2.
439	circular	8.0	burial removal, Structure 2.
440	circular	8.0	burial removal, Structure 2.
441	circular	8.0	burial removal, Structure 2.
442	circular	12.0	burial removal, Structure 2.
443	circular	13.0	burial removal, Structure 2.
444	circular	14.0	burial removal, Structure 2.
445	circular	15.0	burial removal, Structure 2.

Table 37. A Summary List of Posts for the 1997 Investigations. *

Feature	Plan-view	Diameter	Comments
446	circular	12.0	burial removal, Structure 2.
447	circular	12.0	burial removal, Structure 2.
448	circular	10.0	burial removal, Structure 2.
449	circular	13.0	burial removal, Structure 2.
450	circular	11.0	burial removal, Structure 2.
451	circular	13.0	burial removal, Structure 2.
452	circular	14.0	burial removal, Structure 2.
453	circular	15.0	burial removal, Structure 2.
454	circular	15.0	burial removal, Structure 2.
455	circular	8.0	burial removal, Structure 2.
456	circular	9.0	burial removal, Structure 2.
457	circular	15.0	burial removal, Structure 2.
458	circular	18.0	burial removal, Structure 2.
459	circular	13.0	burial removal, Structure 2.
460	circular	12.0	burial removal, Structure 2.
461	circular	12.0	burial removal, Structure 2.
462	circular	13.0	burial removal, Structure 2.
463	circular	14.0	burial removal, Structure 2.
464	circular	12.0	burial removal, Structure 2.
465	circular	9.0	burial removal, Structure 2.
466	circular	15.0	burial removal, Structure 2.
467	circular	15.0	burial removal, Structure 2.
468	circular	15.0	burial removal, Structure 2.
469	circular	15.0	burial removal, Structure 2.
470	circular	17.0	burial removal, Structure 2.
471	circular	15.0	burial removal, Structure 2.
472	circular	16.0	burial removal, Structure 2.
473	circular	15.0	burial removal, Structure 2.
474	circular	15.0	burial removal, Structure 2.
475	circular	13.0	burial removal, Structure 2.
476	circular	15.0	burial removal, Structure 2.
477	circular	10.0	burial removal, Structure 2.
478	circular	13.0	burial removal, Structure 2.
479	circular	9.0	burial removal, Structure 2.
480	circular	13.0	burial removal, Structure 2.
481	circular	15.0	burial removal, Structure 2.
482	circular	15.0	burial removal, Structure 3.
483	circular	10.0	burial removal, Structure 3.
484	circular	13.0	burial removal, Structure 3.
485	circular	15.0	burial removal, Structure 3.
486	circular	15.0	burial removal, Structure 3.
487	circular	15.0	burial removal, Structure 3.
488	circular	17.0	burial removal, Structure 3.
489	circular	15.0	burial removal, Structure 3.
490	circular	17.0	burial removal, Structure 3.
491	circular	14.0	burial removal, Structure 3.
492	circular	16.0	burial removal, Structure 3.
493	circular	15.0	burial removal, Structure 3.
494	circular	18.0	burial removal, Structure 3.
495	circular	15.0	burial removal, Structure 3.
496	circular	15.0	burial removal, Structure 3.
497	circular	20.0	burial removal, Structure 3, center support.
498	circular	11.0	burial removal, Structure 3.
499	circular	13.0	burial removal, Structure 3.
500	circular	20.0	burial removal, Structure 3.
501	circular	25.0	burial removal, Structure 3; center support.
502	circular	25.0	burial removal, Structure 3; center support.
503	circular	15.0	burial removal, Structure 3.
504	circular	15.0	burial removal, Structure 3.
505	circular	15.0	burial removal, Structure 3.
506	circular	15.0	burial removal, Structure 3.
507	circular	16.0	burial removal, Structure 3.
508	circular	17.0	burial removal, Structure 3.
509	circular	18.0	burial removal, Structure 3.
510	circular	18.0	burial removal, Structure 3.
511	circular	18.0	burial removal, Structure 3.

Table 37. A Summary List of Posts for the 1997 Investigations. *

Feature	Plan-view	Diameter	Comments
512	circular	18.0	burial removal, Structure 3.
513	circular	14.0	burial removal, Structure 3.
514	circular	13.0	burial removal, Structure 3.
515	circular	16.0	burial removal, Structure 3.
516	circular	20.0	burial removal, Structure 3.
517	circular	12.0	burial removal, Structure 3.
518	circular	15.0	burial removal, Structure 3.
520	circular	15.0	burial removal, Structure 3.
521	circular	23.0	burial removal, Structure 3.
522	circular	17.0	burial removal, Structure 3.
523	circular	12.0	burial removal, Structure 3.
524	circular	15.0	burial removal, Structure 3.
525	circular	10.0	burial removal, Structure 3.
526	circular	17.0	burial removal, Structure 3.
527	circular	13.0	burial removal, Structure 3.
528	circular	15.0	burial removal, Structure 3.
529	circular	18.0	burial removal, Structure 3.
530	circular	18.0	burial removal, Structure 3.
531	circular	20.0	burial removal, Structure 3.
532	circular	20.0	burial removal, Structure 3.
533	circular	18.0	burial removal, Structure 3.
534	circular	18.0	burial removal, Structure 3.
535	circular	15.0	burial removal, Structure 3.
536	circular	15.0	burial removal, Structure 3.
537	circular	12.0	burial removal, Structure 3.
538	circular	20.0	burial removal, Structure 3.
539	circular	23.0	burial removal, Structure 3.
540	circular	18.0	burial removal, Structure 3.
541	circular	22.0	burial removal, Structure 3.
542	circular	15.0	burial removal, Structure 3.
543	circular	20.0	burial removal, Structure 3.
544	circular	15.0	burial removal, Structure 3.
545	circular	18.0	burial removal, Structure 3.
546	circular	18.0	burial removal, Structure 3.
547	circular	20.0	burial removal, Structure 3.
548	circular	20.0	burial removal, Structure 3.
549	circular	14.0	burial removal, Structure 3.
550	circular	22.0	burial removal, Structure 3, center support.
551	circular	17.0	burial removal, Structure 3.
552	circular	20.0	burial removal, Structure 3.
553	circular	15.0	burial removal, Structure 3.
554	circular	25.0	burial removal, Structure 3, center support.
555	circular	22.0	burial removal, Structure 3, center support.
556	circular	30.0	burial removal, Structure 3, center support(?).
557	circular	13.0	burial removal, Structure 3.
558	circular	16.0	burial removal, Structure 3.
559	circular	15.0	burial removal, Structure 3.
560	circular	14.0	burial removal, Structure 3.
561	circular	15.0	burial removal, Structure 3.
562	circular	10.0	burial removal, Structure 3.
563	circular	15.0	burial removal, Structure 3.
564	circular	22.0	burial removal, Structure 3.
565	circular	17.0	burial removal, Structure 3.
566	circular	12.0	burial removal, Structure 3.
567	circular	16.0	burial removal, Structure 3.
568	circular	17.0	burial removal, Structure 3.
569	circular	18.0	burial removal, Structure 3.
570	circular	15.0	burial removal, Structure 3.
571	circular	10.0	burial removal, Structure 3.
576	circular	12.0	burial removal, Structure 4.
577	circular	15.0	burial removal, Structure 4.
578	circular	15.0	burial removal, Structure 4.
579	circular	17.0	burial removal, Structure 4.
580	circular	25.0	burial removal, Structure 4, center support.
581	circular	12.0	burial removal, Structure 4.
582	circular	12.0	burial removal, Structure 4.

Table 37. A Summary List of Posts for the 1997 Investigations. *

Feature	Plan-view	Diameter	Comments
583	circular	12.0	burial removal, Structure 4.
584	circular	13.0	burial removal, Structure 4.
585	circular	14.0	burial removal, Structure 4.
586	circular	13.0	burial removal, Structure 4.
587	circular	14.0	burial removal, Structure 4.
588	circular	14.0	burial removal, Structure 4.
589	circular	14.0	burial removal, Structure 4.
590	circular	19.0	burial removal, Structure 4.
591	circular	13.0	burial removal, Structure 4.
592	circular	14.0	burial removal, Structure 4.
593	circular	17.0	burial removal, Structure 4.
594	circular	14.0	burial removal, Structure 4.
595	circular	18.0	burial removal, Structure 4.
596	circular	11.0	burial removal, Structure 4.
597	circular	25.0	burial removal, Structure 4.
598	circular	18.0	burial removal, Structure 4.
599	circular	22.0	burial removal, Structure 4, center support.
600	circular	16.0	burial removal, Structure 4.
601	circular	14.0	burial removal, Structure 4.
602	circular	16.0	burial removal, Structure 4.
603	circular	16.0	burial removal, Structure 4.
604	circular	14.0	burial removal, Structure 4.
605	circular	10.0	burial removal, Structure 4.
606	circular	14.0	burial removal, Structure 4.
607	circular	10.0	burial removal, Structure 4.
608	circular	16.0	burial removal, Structure 4.
609	circular	18.0	burial removal, Structure 4.
610	circular	20.0	burial removal, Structure 4.
611	circular	10.0	burial removal, Structure 4.
612	circular	12.0	burial removal, Structure 4.
613	circular	18.0	burial removal, Structure 4.
614	circular	17.0	burial removal, Structure 4.
615	circular	13.0	burial removal, Structure 4.
616	circular	15.0	burial removal, Structure 4.
617	circular	15.0	burial removal, Structure 4.
618	circular	16.0	burial removal, Structure 4.
619	circular	23.0	burial removal, Structure 4, center support.
620	circular	26.0	burial removal, Structure 4, center support.
621	circular	10.0	burial removal, Structure 4.
622	circular	13.0	burial removal, Structure 4.
623	circular	8.0	burial removal, Structure 4.
624	circular	13.0	burial removal, Structure 4.
625	circular	15.0	burial removal, Structure 4.
626	circular	8.0	burial removal, Structure 4.
627	circular	11.0	burial removal, Structure 4.
628	circular	12.0	burial removal, Structure 4.
629	circular	13.0	burial removal, Structure 4.
630	circular	13.0	burial removal, Structure 4.
631	circular	14.0	burial removal, Structure 4.
632	circular	13.0	burial removal, Structure 4.
633	circular	12.0	burial removal, Structure 4.
634	circular	20.0	burial removal, Structure 4, center support.
635	circular	12.0	burial removal, Structure 4.
636	circular	16.0	burial removal, Structure 4.
637	circular	25.0	burial removal, Structure 4, center support.
638	circular	11.0	burial removal, Structure 4.
639	circular	13.0	burial removal, Structure 4.
640	circular	11.0	burial removal, Structure 4.
641	circular	14.0	burial removal, Structure 4.
642	circular	10.0	burial removal, Structure 4.
643	circular	13.0	burial removal, Structure 4.
644	circular	12.0	burial removal, Structure 4.
645	circular	11.0	burial removal, Structure 4.
646	circular	16.0	burial removal, Structure 4.
647	circular	16.0	burial removal, Structure 4.
648	circular	14.0	burial removal, Structure 4.

Table 37. A Summary List of Posts for the 1997 Investigations. *

Feature	Plan-view	Diameter	Comments
649	circular	13.0	burial removal, Structure 4?
650	circular	11.0	burial removal, Structure 4?
652	circular	20.0	burial removal, Structure 40.
653	circular	15.0	burial removal, Structure 40.
654	circular	12.0	burial removal, Structure 7.
655	circular	17.0	burial removal, Structure 7.
656	circular	15.0	burial removal, Structure 7.
657	circular	15.0	burial removal, Structure 7.
658	circular	20.0	burial removal, Structure 40.
659	circular	13.0	burial removal, Structure 7.
660	circular	17.0	burial removal, Structure 40.
661	circular	15.0	burial removal, Structure 7.
662	circular	15.0	burial removal, Structure 7.
663	circular	17.0	burial removal, Structure 40.
664	circular	12.0	burial removal, Structure 40.
665	circular	15.0	burial removal, Structure 40.
666	circular	15.0	burial removal, Structure 7.
667	circular	14.0	burial removal, Structure 7.
668	circular	11.0	burial removal, Structure 7.
669	circular	25.0	burial removal, Structure 7, center support.
670	circular	15.0	burial removal, Structure 7.
671	circular	12.0	burial removal, Structure 7.
672	circular	15.0	burial removal, Structure 7.
673	circular	11.0	burial removal, Structure 7.
674	circular	12.0	burial removal, Structure 7.
675	circular	12.0	burial removal, Structure 7.
676	circular	17.0	burial removal, Structure 7.
677	circular	12.0	burial removal, Structure 7.
678	circular	15.0	burial removal, Structure 7.
679	circular	13.0	burial removal, Structure 7.
680	circular	14.0	burial removal, Structure 7.
681	circular	13.0	burial removal, Structure 7.
682	circular	15.0	burial removal, Structure 7.
683	circular	15.0	burial removal, Structure 7.
684	circular	17.0	burial removal, Structure 7.
685	circular	15.0	burial removal, Structure 7.
686	circular	15.0	burial removal, Structure 7.
687	circular	12.0	burial removal, Structure 7.
688	circular	13.0	burial removal, Structure 7.
689	circular	13.0	burial removal, Structure 7.
690	circular	20.0	burial removal, Structure 7, center support.
691	circular	18.0	burial removal, Structure 7.
692	circular	16.0	burial removal, Structure 7.
693	circular	16.0	burial removal, Structure 7.
695	circular	15.0	burial removal, Structure 7.
696	circular	15.0	burial removal, Structure 7.
697	circular	15.0	burial removal, Structure 7.
698	circular	13.0	burial removal, Structure 7.
699	circular	15.0	burial removal, Structure 7.
700	circular	16.0	burial removal, Structure 7.
701	circular	15.0	burial removal, Structure 7.
702	circular	19.0	burial removal, Structure 7, center support.
703	circular	15.0	burial removal, Structure 7.
704	circular	15.0	burial removal, Structure 7.
705	circular	15.0	burial removal, Structure 7.
706	circular	13.0	burial removal, Structure 7.
707	circular	16.0	burial removal, Structure 40.
708	circular	16.0	burial removal, Structure 40.
709	circular	13.0	burial removal, Structure 7.
710	circular	12.0	burial removal, Structure 40.
711	circular	12.0	burial removal, Structure 7.
712	circular	14.0	burial removal, Structure 7.
713	circular	13.0	burial removal, Structure 7.
714	circular	14.0	burial removal, Structure 40.
715	circular	17.0	burial removal, Structure 6.
716	circular	16.0	burial removal, Structure 6.

Table 37. A Summary List of Posts for the 1997 Investigations. *

Feature	Plan-view	Diameter	Comments
717	circular	17.0	burial removal, Structure 6.
718	circular	17.0	burial removal, Structure 6.
719	circular	17.0	burial removal, Structure 6.
720	circular	15.0	burial removal, Structure 6.
721	circular	17.0	burial removal, Structure 6.
722	circular	23.0	burial removal, Structure 6.
723	circular	17.0	burial removal, Structure 6.
724	circular	14.0	burial removal, Structure 6.
725	circular	18.0	burial removal, Structure 6.
726	circular	23.0	burial removal, Structure 6.
727	circular	16.0	burial removal, Structure 6.
728	circular	13.0	burial removal, Structure 6.
729	circular	16.0	burial removal, Structure 6.
730	circular	15.0	burial removal, Structure 6.
731	circular	20.0	burial removal, Structure 6.
732	circular	18.0	burial removal, Structure 6.
733	circular	16.0	burial removal, Structure 6.
734	circular	16.0	burial removal, Structure 6.
735	circular	15.0	burial removal, Structure 6.
736	circular	17.0	burial removal, Structure 6.
737	circular	20.0	burial removal, Structure 6.
738	circular	19.0	burial removal, Structure 6.
739	circular	14.0	burial removal, Structure 6.
740	circular	13.0	burial removal, Structure 6.
741	circular	20.0	burial removal, Structure 6.
742	circular	15.0	burial removal, Structure 6.
743	circular	20.0	burial removal, Structure 6.
744	circular	18.0	burial removal, Structure 6.
745	circular	16.0	burial removal, Structure 6.
746	circular	19.0	burial removal, Structure 6.
747	circular	11.0	burial removal, Structure 6.
748	circular	18.0	burial removal, Structure 6.
749	circular	16.0	burial removal, Structure 6.
750	circular	15.0	burial removal, Structure 6.
751	circular	16.0	burial removal, Structure 6.
752	circular	13.0	burial removal, Structure 6.
753	circular	18.0	burial removal, Structure 6.
754	circular	17.0	burial removal, Structure 6.
755	circular	15.0	burial removal, Structure 6.
756	circular	16.0	burial removal, Structure 6.
757	circular	15.0	burial removal, Structure 6.
758	circular	17.0	burial removal, Structure 6.
759	circular	18.0	burial removal, Structure 6.
760	circular	16.0	burial removal, Structure 6.
761	circular	16.0	burial removal, Structure 6.
763	circular	15.0	burial removal, Structure 10.
764	circular	17.0	burial removal, Structure 10.
765	circular	12.0	burial removal, Structure 10.
766	circular	17.0	burial removal, Structure 10.
767	circular	9.0	burial removal, Structure 10.
768	circular	13.0	burial removal, Structure 10.
769	circular	15.0	burial removal, Structure 10.
770	circular	15.0	burial removal, Structure 10.
771	circular	15.0	burial removal, Structure 10.
772	circular	13.0	burial removal, Structure 10.
773	circular	18.0	burial removal, Structure 10.
774	circular	13.0	burial removal, Structure 10.
775	circular	12.0	burial removal, Structure 10.
776	circular	13.0	burial removal, Structure 10.
777	circular	13.0	burial removal, Structure 10.
778	circular	17.0	burial removal, Structure 10.
779	circular	18.0	burial removal, Structure 10.
780	circular	16.0	burial removal, Structure 10.
781	circular	14.0	burial removal, Structure 10.
782	circular	16.0	burial removal, Structure 10.
783	circular	15.0	burial removal, Structure 10.

Table 37. A Summary List of Posts for the 1997 Investigations. *

Feature	Plan-view	Diameter	Comments
784	circular	15.0	burial removal, Structure 10.
785	circular	17.0	burial removal, Structure 10.
786	circular	11.0	burial removal, Structure 10.
787	circular	20.0	burial removal, Structure 10.
788	circular	17.0	burial removal, Structure 10.
789	circular	19.0	burial removal, Structure 10.
790	circular	18.0	burial removal, Structure 10.
791	circular	20.0	burial removal, Structure 10.
792	circular	14.0	burial removal, Structure 31.
793	circular	17.0	burial removal, Structure 10.
794	circular	22.0	burial removal, Structure 10.
795	circular	20.0	burial removal, Structure 10.
796	circular	15.0	burial removal, Structure 10.
797	circular	20.0	burial removal, Structure 10.
798	circular	17.0	burial removal, Structure 10.
799	circular	16.0	burial removal, Structure 10.
800	circular	10.0	burial removal, Structure 10.
801	circular	20.0	burial removal, Structure 10.
802	circular	35.0	burial removal, Structure 10, center support(?).
803	circular	35.0	burial removal, Structure 10, center support(?).
804	circular	14.0	burial removal, Structure 31.
805	circular	14.0	burial removal, Structure 31.
806	circular	13.0	burial removal, Structure 31.
807	circular	17.0	burial removal, Structure 31.
808	circular	17.0	burial removal, Structure 31.
809	circular	13.0	burial removal, Structure 31.
810	circular	15.0	burial removal, Structure 31.
811	circular	15.0	burial removal, Structure 10.
812	circular	12.0	burial removal, Structure 10.
813	circular	14.0	burial removal, Structure 10.
814	circular	14.0	burial removal, Structure 10.
815	circular	13.0	burial removal, Structure 10.
816	circular	20.0	burial removal, Structure 10.
817	circular	22.0	burial removal, Structure 10.
818	circular	12.0	burial removal, Structure 10.
819	circular	11.0	burial removal, Structure 10.
820	circular	13.0	burial removal, Structure 10.
821	circular	22.0	burial removal, Structure 10.
822	circular	11.0	burial removal, Structure 10.
823	circular	18.0	burial removal, Structure 10.
824	circular	14.0	burial removal, Structure 10.
825	circular	10.0	burial removal, Structure 10.
826	circular	18.0	burial removal, Structure 10.
827	circular	15.0	burial removal, Structure 10.
828	circular	10.0	burial removal, Structure 8.
829	circular	15.0	burial removal, Structure 8.
830	circular	18.0	burial removal, Structure 8.
831	circular	15.0	burial removal, Structure 8.
832	circular	10.0	burial removal, Structure 8.
833	circular	12.0	burial removal, Structure 8.
834	circular	14.0	burial removal, Structure 8.
835	circular	20.0	burial removal, Structure 8.
836	circular	28.0	burial removal, Structure 8, center support.
837	circular	18.0	burial removal, Structure 8.
838	circular	12.0	burial removal, Structure 8.
839	circular	16.0	burial removal, Structure 8.
840	circular	13.0	burial removal, Structure 8.
841	circular	20.0	burial removal, Structure 8.
842	circular	16.0	burial removal, Structure 8.
843	circular	12.0	burial removal, Structure 8.
844	circular	20.0	burial removal, Structure 8.
845	circular	16.0	burial removal, Structure 8.
846	circular	16.0	burial removal, Structure 8.
847	circular	12.0	burial removal, Structure 8.
848	circular	20.0	burial removal, Structure 8.
850	circular	20.0	burial removal, Structure 8.

Table 37. A Summary List of Posts for the 1997 Investigations. *

Feature	Plan-view	Diameter	Comments
851	circular	17.0	burial removal, Structure 8.
852	circular	18.0	burial removal, Structure 8.
853	circular	12.0	burial removal, Structure 8.
854	circular	13.0	burial removal, Structure 8.
855	circular	16.0	burial removal, Structure 8.
856	circular	28.0	burial removal, Structure 8, center support.
857	circular	9.0	burial removal, Structure 8.
858	circular	12.0	burial removal, Structure 8.
859	circular	10.0	burial removal, Structure 8.
860	circular	13.0	burial removal, Structure 8.
861	circular	16.0	burial removal, Structure 8.
862	circular	19.0	burial removal, Structure 8.
863	circular	14.0	burial removal, Structure 65.
864	circular	14.0	burial removal, Structure 8.
865	circular	10.0	burial removal, Structure 65.
866	circular	27.0	burial removal, Structure 8, center support.
867	circular	25.0	burial removal, Structure 8, center support.
868	circular	10.0	burial removal, Structure 65.
869	circular	13.0	burial removal, Structure 8.
870	circular	10.0	burial removal, Structure 8.
871	circular	15.0	burial removal, Structure 65.
872	circular	18.0	burial removal, Structure 65.
873	circular	19.0	burial removal, Structure 65.
874	circular	20.0	burial removal, Structure 65.
875	circular	16.0	burial removal, Structure 65.
876	circular	20.0	burial removal, Structure 65.
877	circular	15.0	burial removal, Structure 11.
878	circular	14.0	burial removal, Structure 11.
879	circular	18.0	burial removal, Structure 11.
880	circular	17.0	burial removal, Structure 11.
881	circular	17.0	burial removal, Structure 11.
882	circular	14.0	burial removal, Structure 11.
883	circular	15.0	burial removal, Structure 11.
884	circular	15.0	burial removal, Structure 11.
885	circular	12.0	burial removal, Structure 11.
886	circular	18.0	burial removal, Structure 11.
887	circular	15.0	burial removal, Structure 11.
888	circular	15.0	burial removal, Structure 11.
889	circular	14.0	burial removal, Structure 11.
890	circular	16.0	burial removal, Structure 11.
891	circular	16.0	burial removal, Structure 11.
892	circular	11.0	burial removal, Structure 11.
893	circular	15.0	burial removal, Structure 11.
894	circular	12.0	burial removal, Structure 11.
895	circular	11.0	burial removal, Structure 11.
896	circular	14.0	burial removal, Structure 11.
897	circular	16.0	burial removal, Structure 11.
898	circular	16.0	burial removal, Structure 11.
899	circular	17.0	burial removal, Structure 11.
900	circular	15.0	burial removal, Structure 11.
901	circular	20.0	burial removal, Structure 11.
902	circular	20.0	burial removal, Structure 11.
903	circular	20.0	burial removal, Structure 11.
904	circular	19.0	burial removal, Structure 11.
905	circular	16.0	burial removal, Structure 11.
906	circular	17.0	burial removal, Structure 11.
907	circular	15.0	burial removal, Structure 11.
908	circular	13.0	burial removal, Structure 11.
909	circular	18.0	burial removal, Structure 11.
910	circular	19.0	burial removal, Structure 11.
911	circular	18.0	burial removal, Structure 11.
912	circular	14.0	burial removal, Structure 11.
913	circular	18.0	burial removal, Structure 11.
914	circular	9.0	burial removal, Structure 11.
915	circular	16.0	burial removal, Structure 11.
916	circular	16.0	burial removal, Structure 11.

Table 37. A Summary List of Posts for the 1997 Investigations. *

Feature	Plan-view	Diameter	Comments
917	circular	13.0	burial removal, Structure 11.
918	circular	14.0	burial removal, Structure 11.
919	circular	14.0	burial removal, Structure 11.
920	circular	12.0	burial removal, Structure 11.
921	circular	18.0	burial removal, Structure 11.
922	circular	16.0	burial removal, Structure 11.
923	circular	16.0	burial removal, Structure 11.
924	circular	15.0	burial removal, Structure 11.
925	circular	20.0	burial removal, Structure 11.
926	circular	9.0	burial removal, Structure 11.
927	circular	20.0	burial removal, Structure 11.
928	circular	20.0	burial removal, Structure 11.
929	circular	20.0	burial removal, Structure 11.
930	circular	18.0	burial removal, Structure 11.
931	circular	19.0	burial removal, Structure 11.
932	circular	29.0	burial removal, Structure 11.
933	circular	28.0	burial removal, Structure 11.
934	circular	15.0	burial removal, Structure 11.
935	circular	16.0	burial removal, Structure 11.
936	circular	21.0	burial removal, Structure 13.
937	circular	23.0	burial removal, Structure 13.
938	circular	17.0	burial removal, Structure 13.
939	circular	15.0	burial removal, Structure 13.
940	circular	15.0	burial removal, Structure 13.
941	circular	13.0	burial removal, Structure 13.
942	circular	30.0	burial removal, Structure 13, center support.
943	circular	15.0	burial removal, Structure 13.
944	circular	15.0	burial removal, Structure 13.
945	circular	14.0	burial removal, Structure 13.
946	circular	15.0	burial removal, Structure 13.
947	circular	14.0	burial removal, Structure 13.
948	circular	14.0	burial removal, Structure 13.
949	circular	18.0	burial removal, Structure 13.
950	circular	14.0	burial removal, Structure 13.
951	circular	15.0	burial removal, Structure 13.
952	circular	16.0	burial removal, Structure 13.
953	circular	15.0	burial removal, Structure 13.
954	circular	16.0	burial removal, Structure 13.
955	circular	16.0	burial removal, Structure 13.
956	circular	16.0	burial removal, Structure 13.
957	circular	15.0	burial removal, Structure 13.
958	circular	17.0	burial removal, Structure 13.
959	circular	14.0	burial removal, Structure 13.
960	circular	17.0	burial removal, Structure 13.
961	circular	13.0	burial removal, Structure 13.
962	circular	13.0	burial removal, Structure 13.
963	circular	17.0	burial removal, Structure 13.
964	circular	14.0	burial removal, Structure 13.
965	circular	17.0	burial removal, Structure 13.
966	circular	18.0	burial removal, Structure 13.
967	circular	25.0	burial removal, Structure 13, center support(?).
968	circular	11.0	burial removal, Structure 13.
969	circular	18.0	burial removal, Structure 13.
970	circular	16.0	burial removal, Structure 13.
971	circular	17.0	burial removal, Structure 13.
972	circular	17.0	burial removal, Structure 13.
973	circular	16.0	burial removal, Structure 13.
974	circular	20.0	burial removal, Structure 13.
975	circular	18.0	burial removal, Structure 13.
976	circular	14.0	burial removal, Structure 13.
977	circular	20.0	burial removal, Structure 13.
978	circular	16.0	burial removal, Structure 13.
979	circular	17.0	burial removal, Structure 13.
980	circular	15.0	burial removal, Structure 13.
981	circular	16.0	burial removal, Structure 13.
982	circular	20.0	burial removal, Structure 13.

Table 37. A Summary List of Posts for the 1997 Investigations. *

Feature	Plan-view	Diameter	Comments
983	circular	16.0	burial removal, Structure 13.
984	circular	12.0	burial removal, Structure 13.
985	circular	16.0	burial removal, Structure 13.
986	circular	17.0	burial removal, Structure 13.
987	circular	16.0	burial removal, Structure 13.
988	circular	16.0	burial removal, Structure 13.
989	circular	29.0	burial removal, Structure 13, center support.
990	circular	16.0	burial removal, Structure 13.
991	circular	17.0	burial removal, Structure 13.
992	circular	14.0	burial removal, Structure 13.
993	circular	16.0	burial removal, Structure 13.
994	circular	28.0	burial removal, Structure 13, center support.
995	circular	22.0	burial removal, Structure 13.
996	circular	18.0	burial removal, Structure 13.
997	circular	15.0	burial removal, Structure 13.
998	circular	17.0	burial removal, Structure 13.
999	circular	17.0	burial removal, Structure 13.
1000	circular	17.0	burial removal, Structure 13.
1001	circular	14.0	burial removal, Structure 13.
1002	circular	23.0	burial removal, Structure 13.
1003	circular	22.0	burial removal, Structure 13.
1004	circular	15.0	burial removal, Structure 13.
1005	circular	13.0	burial removal, Structure 13.
1006	circular	17.0	burial removal, Structure 13.
1007	circular	19.0	burial removal, Structure 14.
1008	circular	16.0	burial removal, Structure 14.
1009	circular	16.0	burial removal, Structure 14.
1010	circular	16.0	burial removal, Structure 14.
1011	circular	15.0	burial removal, Structure 14.
1012	circular	15.0	burial removal, Structure 14.
1013	circular	11.0	burial removal, Structure 14.
1014	circular	16.0	burial removal, Structure 14.
1015	circular	14.0	burial removal, Structure 14.
1016	circular	20.0	burial removal, Structure 14.
1017	circular	16.0	burial removal, Structure 14.
1018	circular	13.0	burial removal, Structure 14.
1021	circular	12.0	burial removal, Structure 14.
1022	circular	13.0	burial removal, Structure 14.
1023	circular	15.0	burial removal, Structure 14.
1024	circular	19.0	burial removal, Structure 14.
1025	circular	14.0	burial removal, Structure 14.
1026	circular	13.0	burial removal, Structure 14.
1027	circular	14.0	burial removal, Structure 14.
1028	circular	12.0	burial removal, Structure 14.
1029	circular	14.0	burial removal, Structure 15.
1030	circular	15.0	burial removal, Structure 15.
1031	circular	15.0	burial removal, Structure 15.
1032	circular	17.0	burial removal, Structure 15.
1033	circular	17.0	burial removal, Structure 15.
1034	circular	15.0	burial removal, Structure 15.
1035	circular	15.0	burial removal, Structure 15.
1036	circular	15.0	burial removal, Structure 15.
1037	circular	13.0	burial removal, Structure 15.
1038	circular	20.0	burial removal, Structure 15.
1039	circular	15.0	burial removal, Structure 15.
1040	circular	17.0	burial removal, Structure 15.
1041	circular	17.0	burial removal, Structure 15.
1042	circular	17.0	burial removal, Structure 15.
1043	circular	14.0	burial removal, Structure 15.
1044	circular	16.0	burial removal, Structure 15.
1045	circular	17.0	burial removal, Structure 15.
1046	circular	18.0	burial removal, Structure 15.
1047	circular	33.0	burial removal.
1048	circular	17.0	burial removal, Structure 15.
1049	circular	17.0	burial removal, Structure 15.
1050	circular	13.0	burial removal, Structure 15.

Table 37. A Summary List of Posts for the 1997 Investigations. *

Feature	Plan-view	Diameter	Comments
1051	circular	10.0	burial removal, Structure 15.
1052	circular	27.0	burial removal, Structure 15, center support.
1053	circular	17.0	burial removal, Structure 15.
1054	circular	16.0	burial removal, Structure 15.
1055	circular	17.0	burial removal, Structure 15.
1056	circular	11.0	burial removal, Structure 15.
1057	circular	18.0	burial removal, Structure 15.
1058	circular	17.0	burial removal, Structure 15.
1059	circular	16.0	burial removal, Structure 15.
1060	circular	19.0	burial removal, Structure 15.
1061	circular	13.0	burial removal, Structure 15.
1062	circular	15.0	burial removal, Structure 15.
1063	circular	15.0	burial removal, Structure 15.
1064	circular	16.0	burial removal, Structure 15.
1065	circular	15.0	burial removal, Structure 15.
1066	circular	17.0	burial removal, Structure 15.
1067	circular	17.0	burial removal, Structure 15.
1068	circular	14.0	burial removal, Structure 15.
1069	circular	22.0	burial removal, Structure 15, center support.
1070	circular	13.0	burial removal, Structure 15.
1071	circular	17.0	burial removal, Structure 15.
1072	circular	16.0	burial removal, Structure 15.
1073	circular	13.0	burial removal, Structure 15.
1074	circular	15.0	burial removal, Structure 15.
1075	circular	17.0	burial removal, Structure 15.
1076	circular	11.0	burial removal, Structure 15.
1077	circular	16.0	burial removal, Structure 12.
1078	circular	18.0	burial removal, Structure 12.
1079	circular	15.0	burial removal, Structure 12.
1082	circular	16.0	burial removal, Structure 12.
1083	circular	16.0	burial removal, Structure 12.
1084	circular	17.0	burial removal, Structure 12.
1085	circular	15.0	burial removal, Structure 12.
1086	circular	12.0	burial removal, Structure 12.
1087	circular	16.0	burial removal, Structure 12.
1088	circular	12.0	burial removal, Structure 12.
1089	circular	16.0	burial removal, Structure 12.
1090	circular	17.0	burial removal, Structure 12.
1091	circular	13.0	burial removal, Structure 12.
1092	circular	15.0	burial removal, Structure 12.
1093	circular	18.0	burial removal, Structure 12.
1094	circular	19.0	burial removal, Structure 12.
1095	circular	16.0	burial removal, Structure 12.
1096	circular	20.0	burial removal, Structure 12.
1097	circular	13.0	burial removal, Structure 12.
1098	circular	25.0	burial removal, Structure 12.
1099	circular	14.0	burial removal, Structure 12.
1100	circular	15.0	burial removal, Structure 12.
1101	circular	15.0	burial removal, Structure 12.
1102	circular	19.0	burial removal, Structure 16.
1103	circular	17.0	burial removal, Structure 16.
1104	circular	17.0	burial removal, Structure 16.
1105	circular	30.0	burial removal, Structure 16, center support.
1106	circular	20.0	burial removal, Structure 16.
1107	circular	14.0	burial removal, Structure 16.
1108	circular	17.0	burial removal, Structure 16.
1109	circular	16.0	burial removal, Structure 16.
1110	circular	17.0	burial removal, Structure 16.
1111	circular	17.0	burial removal, Structure 16.
1112	circular	17.0	burial removal, Structure 16.
1113	circular	18.0	burial removal, Structure 16.
1114	circular	30.0	burial removal, Structure 16.
1117	circular	20.0	burial removal, Structure 16.
1118	circular	17.0	burial removal, Structure 16.
1119	circular	18.0	burial removal, Structure 16.
1120	circular	23.0	burial removal, Structure 16.

Table 37. A Summary List of Posts for the 1997 Investigations. *

Feature	Plan-view	Diameter	Comments
1121	circular	16.0	burial removal, Structure 16.
1122	circular	18.0	burial removal, Structure 16.
1123	circular	20.0	burial removal, Structure 16.
1124	circular	20.0	burial removal, Structure 16.
1125	circular	13.0	burial removal, Structure 16.
1126	circular	15.0	burial removal, Structure 16.
1127	circular	18.0	burial removal, Structure 16.
1128	circular	23.0	burial removal, Structure 16.
1129	circular	21.0	burial removal, Structure 16.
1130	circular	20.0	burial removal, Structure 16.
1131	circular	20.0	burial removal, Structure 16.
1132	circular	20.0	burial removal, Structure 16.
1133	circular	22.0	burial removal, Structure 16.
1134	circular	22.0	burial removal, Structure 16.
1135	circular	20.0	burial removal, Structure 16.
1136	circular	19.0	burial removal, Structure 16.
1137	circular	18.0	burial removal, Structure 16.
1138	circular	10.0	burial removal, Structure 16.
1139	circular	25.0	burial removal, Structure 16.
1140	circular	20.0	burial removal, Structure 16.
1141	circular	20.0	burial removal, Structure 16.
1142	circular	17.0	burial removal, Structure 16.
1143	circular	20.0	burial removal, Structure 16.
1144	circular	20.0	burial removal, Structure 16.
1145	circular	13.0	burial removal, Structure 16.
1146	circular	14.0	burial removal, Structure 16.
1147	circular	17.0	burial removal, Structure 16.
1148	circular	18.0	burial removal, Structure 16.
1149	circular	20.0	burial removal, Structure 16.
1150	circular	21.0	burial removal, Structure 16.
1151	circular	32.0	burial removal, Structure 16, center support.
1152	circular	15.0	burial removal, Structure 16.
1153	circular	17.0	burial removal, Structure 16.
1154	circular	14.0	burial removal, Structure 16.
1155	circular	15.0	burial removal, Structure 16.
1156	circular	18.0	burial removal, Structure 16.
1157	circular	15.0	burial removal, Structure 16.
1158	circular	17.0	burial removal, Structure 16.
1159	circular	20.0	burial removal, Structure 16.
1160	circular	19.0	burial removal, Structure 16, center support(?).
1161	circular	18.0	burial removal, Structure 16, center support(?).
1162	circular	13.0	burial removal, Structure 16.
1163	circular	16.0	burial removal, Structure 16.
1164	circular	17.0	burial removal, Structure 16.
1165	circular	25.0	burial removal, Structure 17.
1166	circular	16.0	burial removal, Structure 17.
1167	circular	14.0	burial removal, Structure 17.
1168	circular	14.0	burial removal, Structure 17.
1169	circular	23.0	burial removal, Structure 17, center support.
1170	circular	20.0	burial removal, Structure 17, center support.
1171	circular	20.0	burial removal, Structure 17.
1172	circular	20.0	burial removal, Structure 17.
1173	circular	20.0	burial removal, Structure 17.
1174	circular	15.0	burial removal, Structure 17.
1175	circular	14.0	burial removal, Structure 17.
1176	circular	13.0	burial removal, Structure 17.
1177	circular	15.0	burial removal, Structure 17.
1178	circular	13.0	burial removal, Structure 17.
1179	circular	14.0	burial removal, Structure 17.
1180	circular	15.0	burial removal, Structure 17.
1181	circular	13.0	burial removal, Structure 17.
1182	circular	14.0	burial removal, Structure 17.
1183	circular	15.0	burial removal, Structure 17.
1184	circular	14.0	burial removal, Structure 17.
1185	circular	15.0	burial removal, Structure 17.
1186	circular	15.0	burial removal, Structure 17.

Table 37. A Summary List of Posts for the 1997 Investigations. *

Feature	Plan-view	Diameter	Comments
1187	circular	15.0	burial removal, Structure 17.
1189	circular	20.0	burial removal, Structure 17, center support.
1190	circular	25.0	burial removal, Structure 17.
1191	circular	25.0	burial removal, Structure 17, center support.
1192	circular	12.0	burial removal, Structure 17.
1193	circular	20.0	burial removal, Structure 17.
1194	circular	13.0	burial removal, Structure 17.
1195	circular	17.0	burial removal, Structure 17.
1196	circular	14.0	burial removal, Structure 17.
1197	circular	15.0	burial removal, Structure 17.
1198	circular	12.0	burial removal, Structure 17.
1199	circular	14.0	burial removal, Structure 17.
1200	circular	13.0	burial removal, Structure 17.
1201	circular	20.0	burial removal, Structure 17.
1202	circular	15.0	burial removal, Structure 17.
1203	circular	18.0	burial removal, Structure 17.
1204	circular	25.0	burial removal, Structure 17, center support.
1205	circular	18.0	burial removal, Structure 17.
1206	circular	20.0	burial removal, Structure 17.
1207	circular	13.0	burial removal, Structure 17.
1208	circular	15.0	burial removal, Structure 17.
1209	circular	16.0	burial removal, Structure 17.
1210	circular	15.0	burial removal, Structure 17.
1211	circular	13.0	burial removal, Structure 17.
1212	circular	14.0	burial removal, Structure 17.
1213	circular	12.0	burial removal, Structure 17.
1214	circular	11.0	burial removal, Structure 17.
1215	circular	13.0	burial removal, Structure 17.
1216	circular	15.0	burial removal, Structure 17.
1217	circular	13.0	burial removal, Structure 17.
1218	circular	17.0	burial removal, Structure 17.
1219	circular	17.0	burial removal, Structure 17.
1220	circular	15.0	burial removal, Structure 17.
1221	circular	25.0	burial removal, Structure 17.
1222	circular	15.0	burial removal, Structure 17.
1223	circular	14.0	burial removal, Structure 17.
1224	circular	13.0	burial removal, Structure 17.
1225	circular	15.0	burial removal, Structure 17.
1226	circular	13.0	burial removal, Structure 17.
1227	circular	17.0	burial removal, Structure 17.
1228	circular	17.0	burial removal, Structure 17.
1229	circular	15.0	burial removal, Structure 17.
1230	circular	16.0	burial removal, Structure 17.
1231	circular	12.0	burial removal, Structure 18.
1232	circular	15.0	burial removal, Structure 18.
1233	circular	18.0	burial removal, Structure 18.
1234	circular	16.0	burial removal, Structure 18.
1235	circular	13.0	burial removal, Structure 18.
1236	circular	20.0	burial removal, Structure 18.
1237	circular	18.0	burial removal, Structure 18.
1238	circular	11.0	burial removal, Structure 18.
1239	circular	14.0	burial removal, Structure 18.
1240	circular	14.0	burial removal, Structure 18.
1241	circular	17.0	burial removal, Structure 18.
1242	circular	14.0	burial removal, Structure 18.
1243	circular	17.0	burial removal, Structure 18.
1244	circular	14.0	burial removal, Structure 18.
1245	circular	14.0	burial removal, Structure 18.
1246	circular	12.0	burial removal, Structure 18.
1247	circular	15.0	burial removal, Structure 18.
1248	circular	12.0	burial removal, Structure 18.
1249	circular	23.0	burial removal, Structure 18.
1250	circular	17.0	burial removal, Structure 18.
1251	circular	16.0	burial removal, Structure 18.
1252	circular	11.0	burial removal, Structure 18.
1253	circular	18.0	burial removal, Structure 18.

Table 37. A Summary List of Posts for the 1997 Investigations. *

Feature	Plan-view	Diameter	Comments
1254	circular	17.0	burial removal, Structure 18.
1255	circular	15.0	burial removal, Structure 18.
1256	circular	12.0	burial removal, Structure 18.
1257	circular	14.0	burial removal, Structure 18.
1258	circular	15.0	burial removal, Structure 18.
1259	circular	12.0	burial removal, Structure 18.
1260	circular	13.0	burial removal, Structure 18.
1261	circular	14.0	burial removal, Structure 18.
1262	circular	13.0	burial removal, Structure 18.
1263	circular	15.0	burial removal, Structure 18.
1264	circular	15.0	burial removal, Structure 18.
1265	circular	14.0	burial removal, Structure 18.
1266	circular	15.0	burial removal, Structure 18.
1267	circular	17.0	burial removal, Structure 18.
1268	circular	15.0	burial removal, Structure 18.
1269	circular	15.0	burial removal, Structure 18.
1270	circular	15.0	burial removal, Structure 18.
1271	circular	18.0	burial removal, Structure 18.
1272	circular	14.0	burial removal, Structure 18.
1273	circular	14.0	burial removal, Structure 18.
1274	circular	15.0	burial removal, Structure 18.
1275	circular	22.0	burial removal, Structure 18.
1276	circular	14.0	burial removal, Structure 18.
1277	circular	14.0	burial removal, Structure 18.
1278	circular	17.0	burial removal, Structure 18.
1279	circular	18.0	burial removal, Structure 18.
1280	circular	15.0	burial removal, Structure 18.
1281	circular	17.0	burial removal, Structure 18.
1282	circular	15.0	burial removal, Structure 18.
1283	circular	15.0	burial removal, Structure 18.
1284	circular	15.0	burial removal, Structure 18.
1285	circular	11.0	burial removal, Structure 18.
1286	circular	18.0	burial removal, Structure 18.
1287	circular	25.0	burial removal, Structure 18.
1288	circular	17.0	burial removal, Structure 18.
1289	circular	18.0	burial removal, Structure 18.
1290	circular	11.0	burial removal, Structure 18.
1291	circular	15.0	burial removal, Structure 18.
1292	circular	10.0	burial removal, Structure 18.
1293	circular	12.0	burial removal, Structure 18.
1294	circular	16.0	burial removal, Structure 18.
1295	circular	15.0	burial removal, Structure 18.
1296	circular	15.0	burial removal, Structure 18.
1297	circular	15.0	burial removal, Structure 18.
1298	circular	12.0	burial removal, Structure 18.
1299	circular	15.0	burial removal, Structure 18.
1300	circular	14.0	burial removal, Structure 18.
1301	circular	15.0	burial removal, Structure 18.
1302	circular	14.0	burial removal, Structure 18.
1303	circular	13.0	burial removal, Structure 18.
1304	circular	13.0	burial removal, Structure 18.
1305	circular	22.0	burial removal, Structure 18.
1307	circular	15.0	burial removal, Structure 18.
1308	circular	13.0	burial removal, Structure 18.
1309	circular	16.0	burial removal, Structure 18.
1310	circular	15.0	burial removal, Structure 18.
1311	circular	12.0	burial removal, Structure 18.
1312	circular	12.0	burial removal, Structure 18.
1313	circular	12.0	burial removal, Structure 18.
1314	circular	13.0	burial removal, Structure 18.
1315	circular	15.0	burial removal, Structure 18.
1316	circular	16.0	burial removal, Structure 18.
1317	circular	17.0	burial removal, Structure 18.
1318	circular	12.0	burial removal, Structure 18.
1319	circular	14.0	burial removal, Structure 18.
1320	circular	16.0	burial removal, Structure 19.

Table 37. A Summary List of Posts for the 1997 Investigations. *

Feature	Plan-view	Diameter	Comments
1321	circular	17.0	burial removal, Structure 19.
1322	circular	15.0	burial removal, Structure 19.
1323	circular	15.0	burial removal, Structure 19.
1324	circular	14.0	burial removal, Structure 19.
1325	circular	18.0	burial removal, Structure 19.
1326	circular	16.0	burial removal, Structure 19.
1327	circular	15.0	burial removal, Structure 19.
1328	circular	14.0	burial removal, Structure 19.
1329	circular	14.0	burial removal, Structure 19.
1330	circular	15.0	burial removal, Structure 19.
1331	circular	16.0	burial removal, Structure 19.
1332	circular	14.0	burial removal, Structure 19.
1333	circular	12.0	burial removal, Structure 19.
1334	circular	14.0	burial removal, Structure 19.
1335	circular	16.0	burial removal, Structure 19.
1336	circular	19.0	burial removal, Structure 19.
1337	circular	15.0	burial removal, Structure 19.
1338	circular	12.0	burial removal, Structure 19.
1339	circular	13.0	burial removal, Structure 19.
1340	circular	18.0	burial removal, Structure 19.
1341	circular	14.0	burial removal, Structure 19.
1342	circular	13.0	burial removal, Structure 19.
1343	circular	17.0	burial removal, Structure 19.
1344	circular	16.0	burial removal, Structure 19.
1345	circular	17.0	burial removal, Structure 19.
1346	circular	18.0	burial removal, Structure 19.
1347	circular	15.0	burial removal, Structure 19.
1348	circular	14.0	burial removal, Structure 19.
1349	circular	15.0	burial removal, Structure 19.
1350	circular	15.0	burial removal, Structure 19.
1351	circular	14.0	burial removal, Structure 19.
1352	circular	16.0	burial removal, Structure 19.
1353	circular	18.0	burial removal, Structure 19.
1354	circular	18.0	burial removal, Structure 19.
1355	circular	12.0	burial removal, Structure 19.
1356	circular	13.0	burial removal, Structure 19.
1357	circular	14.0	burial removal, Structure 19.
1358	circular	10.0	burial removal, Structure 19.
1359	circular	14.0	burial removal, Structure 19.
1360	circular	18.0	burial removal, Structure 19.
1361	circular	17.0	burial removal, Structure 19.
1362	circular	15.0	burial removal, Structure 19.
1363	circular	18.0	burial removal, Structure 19.
1364	circular	14.0	burial removal, Structure 19.
1365	circular	14.0	burial removal, Structure 19.
1366	circular	12.0	burial removal, Structure 19.
1367	circular	14.0	burial removal, Structure 19.
1368	circular	16.0	burial removal, Structure 19.
1369	circular	13.0	burial removal, Structure 19.
1370	circular	12.0	burial removal, Structure 19.
1371	circular	13.0	burial removal, Structure 19.
1372	circular	15.0	burial removal, Structure 19.
1373	circular	16.0	burial removal, Structure 19.
1374	circular	12.0	burial removal, Structure 19.
1375	circular	13.0	burial removal, Structure 19.
1376	circular	16.0	burial removal, Structure 19.
1377	circular	15.0	burial removal, Structure 19.
1378	circular	15.0	burial removal, Structure 19.
1379	circular	13.0	burial removal, Structure 19.
1380	circular	16.0	burial removal, Structure 19.
1381	circular	12.0	burial removal, Structure 19.
1382	circular	12.0	burial removal, Structure 19.
1383	circular	15.0	burial removal, Structure 19.
1384	circular	15.0	burial removal, Structure 19.
1385	circular	13.0	burial removal, Structure 19.
1386	circular	20.0	burial removal, Structure 19.

Table 37. A Summary List of Posts for the 1997 Investigations. *

Feature	Plan-view	Diameter	Comments
1387	circular	24.0	burial removal, Structure 19.
1388	circular	15.0	burial removal, Structure 19.
1391	circular	20.0	burial removal, Structure 19.
1392	circular	19.0	burial removal, Structure 19.
1393	circular	18.0	burial removal, Structure 19.
1394	circular	17.0	burial removal, Structure 19.
1395	circular	16.0	burial removal, Structure 19.
1396	circular	13.0	burial removal, Structure 19.
1404	circular	20.0	burial removal, Structure 20.
1405	circular	20.0	burial removal, Structure 20.
1406	circular	14.0	burial removal, Structure 20.
1407	circular	20.0	burial removal, Structure 20.
1408	circular	15.0	burial removal, Structure 20.
1409	circular	15.0	burial removal, Structure 20.
1410	circular	17.0	burial removal, Structure 20.
1411	circular	14.0	burial removal, Structure 20.
1412	circular	8.0	burial removal, Structure 20.
1413	circular	14.0	burial removal, Structure 20.
1414	circular	14.0	burial removal, Structure 20.
1415	circular	12.0	burial removal, Structure 20.
1416	circular	10.0	burial removal, Structure 20.
1417	circular	30.0	burial removal, Structure 20, center support.
1418	circular	13.0	burial removal, Structure 20.
1419	circular	15.0	burial removal, Structure 20.
1420	circular	11.0	burial removal, Structure 20.
1421	circular	14.0	burial removal, Structure 20.
1422	circular	10.0	burial removal, Structure 20.
1423	circular	13.0	burial removal, Structure 20.
1424	circular	13.0	burial removal, Structure 20.
1425	circular	14.0	burial removal, Structure 20.
1426	circular	10.0	burial removal, Structure 20.
1427	circular	13.0	burial removal, Structure 20.
1428	circular	12.0	burial removal, Structure 20.
1429	circular	12.0	burial removal, Structure 20.
1430	circular	13.0	burial removal, Structure 20.
1431	circular	15.0	burial removal, Structure 20.
1432	circular	11.0	burial removal, Structure 20.
1433	circular	14.0	burial removal, Structure 20.
1434	circular	25.0	burial removal, Structure 20, center support(?).
1435	circular	15.0	burial removal, Structure 20.
1436	circular	20.0	burial removal, Structure 20.
1437	circular	10.0	burial removal, Structure 20.
1438	circular	16.0	burial removal, Structure 20.
1439	circular	12.0	burial removal, Structure 20.
1440	circular	16.0	burial removal, Structure 20.
1441	circular	13.0	burial removal, Structure 20.
1442	circular	25.0	burial removal, Structure 20, center support(?).
1443	circular	17.0	burial removal, Structure 20.
1445	circular	21.0	burial removal, Structure 20.
1446	circular	14.0	burial removal, Structure 20.
1447	circular	17.0	burial removal, Structure 20.
1448	circular	12.0	burial removal, Structure 20.
1449	circular	15.0	burial removal, Structure 20.
1450	circular	12.0	burial removal, Structure 20.
1451	circular	25.0	burial removal, Structure 20, center support(?).
1452	circular	15.0	burial removal, Structure 20.
1453	circular	13.0	burial removal, Structure 20.
1454	circular	15.0	burial removal, Structure 20.
1455	circular	16.0	burial removal, Structure 20.
1456	circular	16.0	burial removal, Structure 20.
1457	circular	12.0	burial removal, Structure 20.
1458	circular	9.0	burial removal, Structure 20.
1459	circular	10.0	burial removal, Structure 20.
1460	circular	17.0	burial removal, Structure 20.
1461	circular	16.0	burial removal, Structure 20.
1462	circular	17.0	burial removal, Structure 20.

Table 37. A Summary List of Posts for the 1997 Investigations. *

Feature	Plan-view	Diameter	Comments
1463	circular	14.0	burial removal, Structure 20.
1464	circular	17.0	burial removal, Structure 20.
1465	circular	13.0	burial removal, Structure 20.
1466	circular	14.0	burial removal, Structure 20.
1467	circular	13.0	burial removal, Structure 20.
1468	circular	13.0	burial removal, Structure 20.
1469	circular	13.0	burial removal, Structure 20.
1470	circular	15.0	burial removal, Structure 20.
1471	circular	14.0	burial removal, Structure 20.
1472	circular	20.0	burial removal, Structure 20.
1473	circular	18.0	burial removal, Structure 20.
1474	circular	10.0	burial removal, Structure 20.
1475	circular	17.0	burial removal.
1476	circular	13.0	burial removal, Structure 21.
1477	circular	17.0	burial removal, Structure 21.
1478	circular	13.0	burial removal, Structure 21.
1479	circular	12.0	burial removal, Structure 21.
1480	circular	13.0	burial removal, Structure 21.
1481	circular	11.0	burial removal, Structure 21.
1482	circular	17.0	burial removal, Structure 21.
1483	circular	17.0	burial removal, Structure 21.
1484	circular	17.0	burial removal, Structure 21.
1485	circular	20.0	burial removal, Structure 21.
1486	circular	15.0	burial removal, Structure 21.
1487	circular	11.0	burial removal, Structure 21.
1488	circular	15.0	burial removal, Structure 21.
1489	circular	19.0	burial removal, Structure 21.
1490	circular	35.0	burial removal, Structure 21.
1491	circular	30.0	burial removal, Structure 21.
1492	circular	15.0	burial removal, Structure 21.
1493	circular	17.0	burial removal, Structure 21.
1494	circular	14.0	burial removal, Structure 21.
1495	circular	20.0	burial removal, Structure 21?
1496	circular	17.0	burial removal, Structure 21?
1497	circular	14.0	burial removal, Structure 21.
1498	circular	22.0	burial removal, Structure 21.
1499	circular	21.0	burial removal, Structure 21.
1500	circular	15.0	burial removal, Structure 21.
1501	circular	13.0	burial removal, Structure 21.
1502	circular	13.0	burial removal, Structure 21.
1503	circular	13.0	burial removal, Structure 21.
1504	circular	16.0	burial removal, Structure 21.
1505	circular	14.0	burial removal, Structure 21?
1506	circular	19.0	burial removal, Structure 21.
1507	circular	13.0	burial removal, Structure 21.
1508	circular	14.0	burial removal, Structure 21.
1509	circular	11.0	burial removal, Structure 21.
1510	circular	15.0	burial removal, Structure 22.
1511	circular	10.0	burial removal, Structure 22.
1512	circular	16.0	burial removal, Structure 22.
1513	circular	16.0	burial removal, Structure 22.
1514	circular	13.0	burial removal, Structure 22.
1515	circular	13.0	burial removal, Structure 22.
1516	circular	17.0	burial removal, Structure 22.
1517	circular	25.0	burial removal, Structure 22.
1518	circular	12.0	burial removal, Structure 22.
1519	circular	12.0	burial removal, Structure 22.
1520	circular	13.0	burial removal, Structure 22.
1521	circular	11.0	burial removal, Structure 22.
1522	circular	17.0	burial removal, Structure 22.
1523	circular	13.0	burial removal, Structure 22.
1524	circular	12.0	burial removal, Structure 22.
1525	circular	14.0	burial removal, Structure 22.
1526	circular	13.0	burial removal, Structure 22.
1527	circular	12.0	burial removal, Structure 22.
1528	circular	17.0	burial removal, Structure 22.

Table 37. A Summary List of Posts for the 1997 Investigations. *

Feature	Plan-view	Diameter	Comments
1529	circular	16.0	burial removal, Structure 22.
1530	circular	25.0	burial removal, Structure 22.
1531	circular	13.0	burial removal, Structure 22.
1532	circular	16.0	burial removal, Structure 22.
1533	circular	18.0	burial removal, Structure 22.
1534	circular	12.0	burial removal, Structure 22.
1535	circular	17.0	burial removal, Structure 22.
1536	circular	19.0	burial removal, Structure 22.
1537	circular	15.0	burial removal, Structure 22.
1538	circular	20.0	burial removal, Structure 22.
1539	circular	30.0	burial removal, Structure 22.
1540	circular	14.0	burial removal, Structure 22.
1541	circular	15.0	burial removal, Structure 22.
1542	circular	13.0	burial removal, Structure 22.
1543	circular	16.0	burial removal.
1544	circular	22.0	burial removal, Structure 22.
1545	circular	17.0	burial removal, Structure 22.
1546	circular	15.0	burial removal, Structure 22.
1547	circular	16.0	burial removal, Structure 22.
1548	circular	16.0	burial removal, Structure 22.
1549	circular	20.0	burial removal, Structure 22.
1550	circular	13.0	burial removal, Structure 22.
1551	circular	11.0	burial removal, Structure 22.
1552	circular	14.0	burial removal, Structure 22.
1553	circular	15.0	burial removal, Structure 22.
1554	circular	14.0	burial removal, Structure 22.
1555	circular	25.0	burial removal, Structure 22.
1556	circular	16.0	burial removal, Structure 22.
1558	circular	14.0	burial removal, Structure 23.
1559	circular	13.0	burial removal, Structure 23.
1560	circular	15.0	burial removal, Structure 23.
1561	circular	17.0	burial removal, Structure 23.
1562	circular	9.0	burial removal, Structure 23.
1563	circular	14.0	burial removal, Structure 23.
1564	circular	17.0	burial removal, Structure 23.
1565	circular	14.0	burial removal, Structure 23.
1566	circular	15.0	burial removal, Structure 23.
1567	circular	14.0	burial removal, Structure 23.
1568	circular	15.0	burial removal, Structure 23.
1569	circular	13.0	burial removal, Structure 23.
1570	circular	16.0	burial removal, Structure 23.
1571	circular	23.0	burial removal, Structure 23.
1572	circular	30.0	burial removal, Structure 23.
1573	circular	13.0	burial removal, Structure 23.
1574	circular	21.0	burial removal, Structure 23.
1575	circular	20.0	burial removal, Structure 23.
1576	circular	14.0	burial removal, Structure 23.
1577	circular	14.0	burial removal, Structure 23.
1578	circular	13.0	burial removal, Structure 23.
1579	circular	13.0	burial removal, Structure 23.
1580	circular	15.0	burial removal, Structure 23.
1581	circular	16.0	burial removal, Structure 23.
1582	circular	13.0	burial removal, Structure 23.
1583	circular	16.0	burial removal, Structure 23.
1584	circular	13.0	burial removal, Structure 23.
1585	circular	16.0	burial removal, Structure 23.
1586	circular	16.0	burial removal, Structure 23.
1587	circular	14.0	burial removal, Structure 23.
1588	circular	14.0	burial removal, Structure 23.
1589	circular	12.0	burial removal, Structure 23.
1590	circular	15.0	burial removal, Structure 23.
1591	circular	18.0	burial removal, Structure 23.
1592	circular	20.0	burial removal, Structure 23.
1593	circular	15.0	burial removal, Structure 23.
1594	circular	15.0	burial removal, Structure 23.
1595	circular	17.0	burial removal, Structure 23.

Table 37. A Summary List of Posts for the 1997 Investigations. *

Feature	Plan-view	Diameter	Comments
1596	circular	13.0	burial removal, Structure 23.
1597	circular	14.0	burial removal, Structure 23.
1598	circular	13.0	burial removal, Structure 23.
1599	circular	16.0	burial removal, Structure 23.
1600	circular	20.0	burial removal, Structure 23.
1601	circular	18.0	burial removal, Structure 23.
1602	circular	14.0	burial removal, Structure 23.
1603	circular	13.0	burial removal, Structure 23.
1604	circular	16.0	burial removal, Structure 23.
1605	circular	18.0	burial removal, Structure 23.
1606	circular	17.0	burial removal, Structure 23.
1607	circular	16.0	burial removal, Structure 23.
1608	circular	13.0	burial removal, Structure 23.
1609	circular	13.0	burial removal, Structure 23.
1610	circular	13.0	burial removal, Structure 23.
1611	circular	12.0	burial removal, Structure 23.
1612	circular	13.0	burial removal, Structure 23.
1613	circular	16.0	burial removal, Structure 24.
1614	circular	14.0	burial removal, Structure 24.
1615	circular	22.0	burial removal, Structure 24.
1616	circular	11.0	burial removal, Structure 24.
1617	circular	16.0	burial removal, Structure 24.
1618	circular	14.0	burial removal, Structure 24.
1619	circular	17.0	burial removal, Structure 24.
1620	circular	13.0	burial removal, Structure 24.
1621	circular	15.0	burial removal, Structure 24.
1622	circular	16.0	burial removal, Structure 24.
1623	circular	11.0	burial removal, Structure 24.
1624	circular	17.0	burial removal, Structure 24.
1625	circular	15.0	burial removal, Structure 24.
1626	circular	13.0	burial removal, Structure 24.
1627	circular	16.0	burial removal, Structure 24.
1628	circular	14.0	burial removal, Structure 24.
1639	circular	13.0	burial removal, Structure 24.
1630	circular	15.0	burial removal, Structure 24.
1631	circular	22.0	burial removal, Structure 24.
1632	circular	9.0	burial removal, Structure 24.
1633	circular	17.0	burial removal, Structure 24.
1634	circular	10.0	burial removal, Structure 24.
1635	circular	17.0	burial removal, Structure 24.
1636	circular	11.0	burial removal, Structure 24.
1637	circular	16.0	burial removal, Structure 24.
1638	circular	15.0	burial removal, Structure 24.
1639	circular	15.0	burial removal, Structure 24.
1640	circular	16.0	burial removal, Structure 24.
1641	circular	11.0	burial removal, Structure 24.
1642	circular	16.0	burial removal, Structure 24.
1643	circular	15.0	burial removal, Structure 24.
1644	circular	18.0	burial removal, Structure 24.
1645	circular	13.0	burial removal, Structure 24.
1646	circular	13.0	burial removal, Structure 24.
1647	circular	13.0	burial removal, Structure 24.
1648	circular	20.0	burial removal, Structure 24.
1649	circular	18.0	burial removal, Structure 24.
1650	circular	18.0	burial removal, Structure 24.
1651	circular	15.0	burial removal, Structure 24.
1652	circular	12.0	burial removal, Structure 24.
1653	circular	15.0	burial removal, Structure 24.
1654	circular	13.0	burial removal, Structure 24.
1655	circular	10.0	burial removal, Structure 24.
1656	circular	11.0	burial removal, Structure 24.
1657	circular	17.0	burial removal, Structure 24.
1658	circular	20.0	burial removal, Structure 24.
1659	circular	25.0	burial removal, Structure 24, center support.
1660	circular	18.0	burial removal, Structure 24.
1661	circular	12.0	burial removal, Structure 24.

Table 37. A Summary List of Posts for the 1997 Investigations. *

Feature	Plan-view	Diameter	Comments
1662	circular	13.0	burial removal, Structure 24.
1663	circular	14.0	burial removal, Structure 24.
1664	circular	13.0	burial removal, Structure 24.
1665	circular	13.0	burial removal, Structure 24.
1666	circular	17.0	burial removal, Structure 24.
1667	circular	14.0	burial removal, Structure 24.
1668	circular	16.0	burial removal, Structure 24.
1669	circular	13.0	burial removal, Structure 24.
1670	circular	12.0	burial removal, Structure 24.
1671	circular	13.0	burial removal, Structure 24.
1672	circular	10.0	burial removal, Structure 24.
1673	circular	13.0	burial removal, Structure 24.
1674	circular	18.0	burial removal, Structure 24.
1675	circular	17.0	burial removal, Structure 24.
1676	circular	16.0	burial removal, Structure 24.
1677	circular	17.0	burial removal, Structure 24.
1678	circular	15.0	burial removal, Structure 24.
1679	circular	23.0	burial removal, Structure 24, center support.
1680	circular	15.0	burial removal, Structure 24.
1681	circular	15.0	burial removal, Structure 24.
1682	circular	15.0	burial removal, Structure 24.
1683	circular	14.0	burial removal, Structure 24.
1684	circular	13.0	burial removal, Structure 24.
1685	circular	15.0	burial removal, Structure 24.
1688	circular	15.0	burial removal, Structure 24.
1689	circular	10.0	burial removal, Structure 24.
1690	circular	14.0	burial removal, Structure 24.
1691	circular	15.0	burial removal, Structure 24.
1692	circular	20.0	burial removal, Structure 24, center support.
1695	circular	20.0	burial removal, Structure 24, center support.
1696	circular	16.0	burial removal, Structure 24.
1698	circular	20.0	burial removal, Structure 24, center support.
1701	circular	20.0	burial removal, Structure 25.
1702	circular	17.0	burial removal, Structure 25.
1703	circular	11.0	burial removal, Structure 25.
1704	circular	16.0	burial removal, Structure 25.
1705	circular	14.0	burial removal, Structure 25.
1706	circular	15.0	burial removal, Structure 25.
1707	circular	16.0	burial removal, Structure 25.
1708	circular	17.0	burial removal, Structure 25.
1709	circular	17.0	burial removal, Structure 25.
1710	circular	14.0	burial removal, Structure 25.
1711	circular	17.0	burial removal, Structure 25.
1712	circular	17.0	burial removal, Structure 25.
1713	circular	14.0	burial removal, Structure 25.
1714	circular	19.0	burial removal, Structure 25.
1715	circular	17.0	burial removal, Structure 25.
1716	circular	16.0	burial removal, Structure 25.
1717	circular	14.0	burial removal, Structure 25.
1718	circular	18.0	burial removal, Structure 25.
1719	circular	18.0	burial removal, Structure 25.
1720	circular	18.0	burial removal, Structure 25.
1721	circular	15.0	burial removal, Structure 25.
1722	circular	17.0	burial removal, Structure 25.
1723	circular	19.0	burial removal, Structure 25.
1724	circular	19.0	burial removal, Structure 25.
1725	circular	16.0	burial removal, Structure 25.
1726	circular	20.0	burial removal, Structure 25.
1727	circular	18.0	burial removal, Structure 25.
1728	circular	20.0	burial removal, Structure 25.
1729	circular	17.0	burial removal, Structure 25.
1730	circular	20.0	burial removal, Structure 25.
1731	circular	18.0	burial removal, Structure 25.
1732	circular	17.0	burial removal, Structure 25.
1733	circular	18.0	burial removal, Structure 25.
1734	circular	15.0	burial removal, Structure 25.

Table 37. A Summary List of Posts for the 1997 Investigations. *

Feature	Plan-view	Diameter	Comments
1735	circular	17.0	burial removal, Structure 25.
1736	circular	20.0	burial removal, Structure 25.
1737	circular	20.0	burial removal, Structure 25.
1738	circular	25.0	burial removal, Structure 26.
1739	circular	25.0	burial removal, Structure 26.
1740	circular	18.0	burial removal, Structure 26.
1741	circular	11.0	burial removal, Structure 26.
1742	circular	15.0	burial removal, Structure 26.
1743	circular	16.0	burial removal, Structure 26.
1744	circular	18.0	burial removal, Structure 26.
1745	circular	14.0	burial removal, Structure 26.
1746	circular	17.0	burial removal, Structure 26.
1747	circular	15.0	burial removal, Structure 26.
1748	circular	22.0	burial removal.
1749	circular	18.0	burial removal, Structure 26.
1750	circular	25.0	burial removal, Structure 26, center support.
1751	circular	25.0	burial removal, Structure 26, center support.
1752	circular	18.0	burial removal, Structure 26.
1753	circular	16.0	burial removal, Structure 26.
1754	circular	18.0	burial removal, Structure 26.
1755	circular	17.0	burial removal, Structure 26.
1756	circular	14.0	burial removal, Structure 26.
1757	circular	15.0	burial removal, Structure 26.
1758	circular	20.0	burial removal, Structure 26.
1759	circular	18.0	burial removal, Structure 26.
1760	circular	18.0	burial removal, Structure 26.
1761	circular	20.0	burial removal, Structure 26.
1762	circular	17.0	burial removal, Structure 26.
1763	circular	12.0	burial removal, Structure 26?
1764	circular	16.0	burial removal, Structure 26?
1765	circular	17.0	burial removal, Structure 26?
1766	circular	13.0	burial removal, Structure 26?
1768	circular	15.0	burial removal, Structure 26.
1769	circular	25.0	burial removal, Structure 26.
1770	circular	19.0	burial removal, Structure 26.
1771	circular	20.0	burial removal, Structure 26.
1772	circular	20.0	burial removal, Structure 26.
1773	circular	20.0	burial removal, Structure 26.
1777	circular	12.0	burial removal, Structure 27.
1778	circular	14.0	burial removal, Structure 27.
1779	circular	14.0	burial removal, Structure 27.
1780	circular	15.0	burial removal, Structure 27.
1781	circular	14.0	burial removal, Structure 27.
1782	circular	15.0	burial removal, Structure 27.
1783	circular	12.0	burial removal, Structure 27.
1784	circular	15.0	burial removal, Structure 27.
1785	circular	15.0	burial removal, Structure 27.
1786	circular	16.0	burial removal, Structure 27.
1787	circular	10.0	burial removal, Structure 27.
1788	circular	13.0	burial removal, Structure 27.
1789	circular	15.0	burial removal, Structure 27.
1790	circular	16.0	burial removal, Structure 27.
1791	circular	16.0	burial removal.
1793	circular	18.0	burial removal, Structure 28.
1794	circular	15.0	burial removal, Structure 28.
1795	circular	16.0	burial removal, Structure 28.
1796	circular	15.0	burial removal, Structure 28.
1797	circular	17.0	burial removal, Structure 28.
1798	circular	17.0	burial removal, Structure 28.
1799	circular	16.0	burial removal.
1800	circular	16.0	burial removal.
1801	circular	25.0	burial removal, Structure 28.
1802	circular	18.0	burial removal, Structure 28.
1803	circular	20.0	burial removal, Structure 28.
1804	circular	20.0	burial removal, Structure 28.
1805	circular	20.0	burial removal, Structure 28.

Table 37. A Summary List of Posts for the 1997 Investigations. *

Feature	Plan-view	Diameter	Comments
1806	circular	12.0	burial removal.
1807	circular	15.0	burial removal.
1808	circular	12.0	burial removal.
1809	circular	15.0	burial removal, Structure 30.
1810	circular	12.0	burial removal, Structure 30.
1811	circular	12.0	burial removal, Structure 30.
1812	circular	16.0	burial removal, Structure 30.
1813	circular	14.0	burial removal, Structure 30.
1814	circular	12.0	burial removal, Structure 30.
1815	circular	15.0	burial removal, Structure 30.
1816	circular	13.0	burial removal, Structure 30.
1817	circular	16.0	burial removal, Structure 30.
1818	circular	27.0	burial removal, Structure 30.
1819	circular	14.0	burial removal, Structure 30.
1820	circular	8.0	burial removal, Structure 30.
1821	circular	12.0	burial removal, Structure 30.
1822	circular	15.0	burial removal, Structure 30.
1823	circular	20.0	burial removal, Structure 30.
1824	circular	18.0	burial removal, Structure 30.
1825	circular	20.0	burial removal, Structure 30.
1826	circular	20.0	burial removal, Structure 30.
1827	circular	17.0	burial removal, Structure 30.
1828	circular	25.0	burial removal, Structure 30.
1829	circular	28.0	burial removal, Structure 30.
1830	circular	17.0	burial removal, Structure 30.
1831	circular	14.0	burial removal, Structure 30.
1832	circular	15.0	burial removal, Structure 31.
1833	circular	17.0	burial removal, Structure 31.
1834	circular	15.0	burial removal, Structure 31.
1835	circular	15.0	burial removal, Structure 31.
1836	circular	22.0	burial removal, Structure 31.
1837	circular	14.0	burial removal, Structure 31.
1838	circular	13.0	burial removal, Structure 31.
1839	circular	13.0	burial removal, Structure 31.
1840	circular	13.0	burial removal, Structure 31.
1841	circular	13.0	burial removal, Structure 31.
1842	circular	20.0	burial removal, Structure 32.
1843	circular	16.0	burial removal, Structure 32.
1844	circular	14.0	burial removal, Structure 32.
1845	circular	12.0	burial removal, Structure 32.
1846	circular	17.0	burial removal, Structure 32.
1847	circular	17.0	burial removal, Structure 32.
1848	circular	13.0	burial removal, Structure 32.
1849	circular	18.0	burial removal, Structure 32.
1850	circular	11.0	burial removal, Structure 32.
1851	circular	17.0	burial removal, Structure 32.
1852	circular	13.0	burial removal, Structure 32.
1853	circular	23.0	burial removal, Structure 29.
1854	circular	14.0	burial removal, Structure 29.
1855	circular	12.0	burial removal, Structure 29.
1856	circular	10.0	burial removal, Structure 29.
1859	circular	13.0	burial removal, Structure 29.
1860	circular	13.0	burial removal, Structure 29.
1861	circular	14.0	burial removal, Structure 29.
1862	circular	17.0	burial removal, Structure 29.
1863	circular	14.0	burial removal, Structure 29.
1864	circular	13.0	burial removal, Structure 29.
1865	circular	15.0	burial removal, Structure 29.
1866	circular	14.0	burial removal, Structure 29.
1867	circular	9.0	burial removal, Structure 29.
1868	circular	10.0	burial removal, Structure 29.
1869	circular	12.0	burial removal, Structure 29.
1870	circular	15.0	burial removal, Structure 29.
1871	circular	15.0	burial removal, Structure 29.
1872	circular	14.0	burial removal, Structure 29.
1873	circular	20.0	burial removal, Structure 29.

Table 37. A Summary List of Posts for the 1997 Investigations. *

Feature	Plan-view	Diameter	Comments
1874	circular	12.0	burial removal, Structure 33.
1875	circular	21.0	burial removal, Structure 33.
1876	circular	27.0	burial removal, Structure 33.
1877	circular	17.0	burial removal, Structure 33.
1878	circular	18.0	burial removal, Structure 33.
1879	circular	28.0	burial removal, Structure 33.
1880	circular	23.0	burial removal, Structure 33.
1881	circular	30.0	burial removal, Structure 33.
1882	circular	25.0	burial removal, Structure 33.
1883	circular	15.0	burial removal, Structure 33.
1884	circular	15.0	burial removal, Structure 33.
1885	circular	17.0	burial removal, Structure 33.
1886	circular	13.0	burial removal, Structure 33.
1887	circular	15.0	burial removal, Structure 33.
1888	circular	16.0	burial removal, Structure 33.
1889	circular	17.0	burial removal, Structure 33.
1890	circular	18.0	burial removal, Structure 33.
1891	circular	17.0	burial removal, Structure 33.
1892	circular	23.0	burial removal, Structure 33.
1893	circular	20.0	burial removal, Structure 33.
1894	circular	17.0	burial removal, Structure 33.
1895	circular	10.0	burial removal, Structure 33.
1896	circular	14.0	burial removal, Structure 33.
1897	circular	n/a	burial removal, Structure 28.
1898	circular	20.0	burial removal, Structure 34.
1899	circular	12.0	burial removal, Structure 34.
1900	circular	19.0	burial removal, Structure 34.
1901	circular	14.0	burial removal, Structure 34.
1902	circular	17.0	burial removal, Structure 34.
1903	circular	10.0	burial removal, Structure 34.
1904	circular	20.0	burial removal, Structure 34.
1905	circular	13.0	burial removal, Structure 34.
1906	circular	15.0	burial removal, Structure 34.
1907	circular	17.0	burial removal, Structure 34.
1908	circular	27.0	burial removal, Structure 34, center support.
1909	circular	23.0	burial removal, Structure 34.
1910	circular	18.0	burial removal, Structure 34.
1911	circular	19.0	burial removal, Structure 34.
1912	circular	18.0	burial removal, Structure 34.
1915	circular	25.0	burial removal, Structure 37.
1916	circular	30.0	burial removal, Structure 37.
1917	circular	15.0	burial removal, Structure 37.
1919	circular	12.0	burial removal, Structure 67.
1920	circular	13.0	burial removal, Structure 36.
1921	circular	13.0	burial removal, Structure 36.
1922	circular	12.0	burial removal, Structure 36.
1923	circular	11.0	burial removal, Structure 36.
1924	circular	12.0	burial removal, Structure 36.
1925	circular	15.0	burial removal, Structure 36.
1926	circular	10.0	burial removal, Structure 36.
1927	circular	16.0	burial removal, Structure 36.
1928	circular	13.0	burial removal, Structure 36.
1929	circular	13.0	burial removal, Structure 36.
1930	circular	11.0	burial removal, Structure 36.
1931	circular	20.0	burial removal, Structure 36.
1932	circular	14.0	burial removal, Structure 36.
1933	circular	15.0	burial removal, Structure 36.
1934	circular	12.0	burial removal, Structure 36.
1935	circular	14.0	burial removal, Structure 36.
1936	circular	14.0	burial removal, Structure 36.
1937	circular	17.0	burial removal, Structure 36.
1938	circular	14.0	burial removal, Structure 36.
1939	circular	13.0	burial removal, Structure 36.
1940	circular	11.0	burial removal, Structure 36.
1941	circular	10.0	burial removal, Structure 36.
1942	circular	13.0	burial removal, Structure 36.

Table 37. A Summary List of Posts for the 1997 Investigations. *

Feature	Plan-view	Diameter	Comments
1943	circular	15.0	burial removal, Structure 36.
1944	circular	12.0	burial removal, Structure 36.
1945	circular	12.0	burial removal, Structure 36.
1946	circular	18.0	burial removal, Structure 36.
1947	circular	14.0	burial removal, Structure 36.
1948	circular	15.0	burial removal, Structure 36.
1949	circular	12.0	burial removal, Structure 36.
1950	circular	16.0	burial removal, Structure 36.
1951	circular	20.0	burial removal, Structure 36.
1952	circular	18.0	burial removal, Structure 36.
1953	circular	22.0	burial removal, Structure 36.
1954	circular	25.0	burial removal, Structure 36, center support.
1955	circular	25.0	burial removal, Structure 36, center support.
1956	circular	15.0	burial removal, Structure 36.
1957	circular	15.0	burial removal, Structure 36.
1958	circular	13.0	burial removal, Structure 36.
1959	circular	15.0	burial removal, Structure 36.
1960	circular	12.0	burial removal, Structure 36.
1961	circular	17.0	burial removal, Structure 36.
1962	circular	17.0	burial removal, Structure 36.
1963	circular	17.0	burial removal, Structure 36.
1964	circular	20.0	burial removal, Structure 36.
1965	circular	20.0	burial removal, Structure 36.
1966	circular	25.0	burial removal, Structure 36, center support(?).
1967	circular	17.0	burial removal, Structure 36.
1968	circular	17.0	burial removal, Structure 36.
1971	circular	15.0	burial removal, Structure 67.
1972	circular	12.0	burial removal, Structure 67.
1973	circular	12.0	burial removal, Structure 67.
1974	circular	13.0	burial removal, Structure 67.
1975	circular	11.0	burial removal, Structure 67.
1976	circular	20.0	burial removal, Structure 67.
1977	circular	18.0	burial removal, Structure 67.
1978	circular	10.0	burial removal, Structure 67.
1979	circular	14.0	burial removal, Structure 67.
1980	circular	12.0	burial removal, Structure 36.
1981	circular	14.0	burial removal, Structure 36.
1982	circular	15.0	burial removal, Structure 36.
1983	circular	8.0	burial removal, Structure 36.
1984	circular	18.0	burial removal, Structure 36.
1985	circular	18.0	burial removal, Structure 36.
1986	circular	17.0	burial removal, Structure 36.
1987	circular	12.0	burial removal, Structure 36.
1988	circular	14.0	burial removal, Structure 36.
1989	circular	19.0	burial removal, Structure 36.
1990	circular	18.0	burial removal, Structure 36.
1991	circular	15.0	burial removal, Structure 36.
1992	circular	15.0	burial removal, Structure 36.
1993	circular	18.0	burial removal, Structure 36.
1994	circular	12.0	burial removal, Structure 36.
1995	circular	12.0	burial removal, Structure 36.
1996	circular	14.0	burial removal, Structure 36.
1997	circular	15.0	burial removal, Structure 36.
1998	circular	17.0	burial removal, Structure 36.
1999	circular	17.0	burial removal, Structure 36.
2000	circular	13.0	burial removal, Structure 36.
2001	circular	14.0	burial removal, Structure 36.
2002	circular	17.0	burial removal, Structure 36.
2003	circular	11.0	burial removal, Structure 36.
2004	circular	13.0	burial removal, Structure 36.
2005	circular	15.0	burial removal, Structure 36.
2006	circular	12.0	burial removal, Structure 36.
2007	circular	18.0	burial removal, Structure 36.
2008	circular	17.0	burial removal, Structure 36.
2009	circular	14.0	burial removal, Structure 36.
2010	circular	19.0	burial removal, Structure 36.

Table 37. A Summary List of Posts for the 1997 Investigations. *

Feature	Plan-view	Diameter	Comments
2011	circular	15.0	burial removal, Structure 36.
2012	circular	15.0	burial removal, Structure 36.
2013	circular	30.0	burial removal, Structure 36, center support.
2014	circular	17.0	burial removal, Structure 36.
2015	circular	30.0	burial removal, Structure 36, center support.
2016	circular	16.0	burial removal, Structure 36.
2017	circular	15.0	burial removal, Structure 36.
2018	circular	15.0	burial removal, Structure 36.
2019	circular	17.0	burial removal, Structure 36.
2020	circular	18.0	burial removal, Structure 36.
2021	circular	20.0	burial removal, Structure 36.
2022	circular	15.0	burial removal, Structure 36.
2023	circular	12.0	burial removal, Structure 36.
2024	circular	15.0	burial removal, Structure 36.
2025	circular	20.0	burial removal, Structure 36.
2026	circular	18.0	burial removal, Structure 36.
2027	circular	18.0	burial removal, Structure 36.
2028	circular	15.0	burial removal, Structure 36.
2029	circular	15.0	burial removal, Structure 36.
2030	circular	15.0	burial removal, Structure 36.
2031	circular	15.0	burial removal, Structure 36.
2032	circular	15.0	burial removal, Structure 36.
2033	circular	20.0	burial removal.
2034	circular	20.0	burial removal, Structure 38.
2035	circular	17.0	burial removal, Structure 38.
2036	circular	17.0	burial removal, Structure 38.
2037	circular	19.0	burial removal, Structure 38.
2038	circular	23.0	burial removal, Structure 38.
2039	circular	15.0	burial removal, Structure 38.
2040	circular	15.0	burial removal, Structure 38.
2041	circular	15.0	burial removal, Structure 38.
2042	circular	15.0	burial removal, Structure 38.
2043	circular	15.0	burial removal, Structure 38.
2044	circular	15.0	burial removal, Structure 38.
2045	circular	16.0	burial removal, Structure 38.
2046	circular	17.0	burial removal, Structure 38.
2047	circular	16.0	burial removal, Structure 38.
2048	circular	20.0	burial removal, Structure 38.
2049	circular	15.0	burial removal, Structure 38.
2050	circular	15.0	burial removal, Structure 38.
2051	circular	20.0	burial removal, Structure 38.
2052	circular	16.0	burial removal, Structure 38.
2053	circular	22.0	burial removal, Structure 38.
2054	circular	16.0	burial removal, Structure 38.
2055	circular	15.0	burial removal, Structure 38.
2056	circular	20.0	burial removal, Structure 38.
2057	circular	18.0	burial removal, Structure 38.
2058	circular	13.0	burial removal, Structure 38.
2060	circular	15.0	burial removal, Structure 38.
2061	circular	14.0	burial removal, Structure 38.
2062	circular	12.0	burial removal, Structure 38.
2063	circular	15.0	burial removal, Structure 38.
2064	circular	12.0	burial removal.
2065	circular	16.0	burial removal.
2066	circular	18.0	burial removal.
2067	circular	16.0	burial removal.
2068	circular	15.0	burial removal.
2069	circular	13.0	burial removal.
2070	circular	15.0	burial removal.
2071	circular	14.0	burial removal.
2072	circular	13.0	burial removal.
2073	circular	20.0	burial removal.
2074	circular	12.0	burial removal.
2075	circular	13.0	burial removal.
2076	circular	20.0	burial removal, Structure 39.
2077	circular	11.0	burial removal, Structure 39.

Table 37. A Summary List of Posts for the 1997 Investigations. *

Feature	Plan-view	Diameter	Comments
2078	circular	12.0	burial removal, Structure 39.
2079	circular	15.0	burial removal, Structure 39.
2080	circular	20.0	burial removal, Structure 39.
2081	circular	13.0	burial removal, Structure 39.
2082	circular	16.0	burial removal, Structure 39.
2083	circular	15.0	burial removal, Structure 39.
2084	circular	16.0	burial removal, Structure 39.
2085	circular	17.0	burial removal, Structure 39.
2086	circular	14.0	burial removal, Structure 39.
2087	circular	14.0	burial removal, Structure 39.
2088	circular	13.0	burial removal, Structure 39.
2089	circular	18.0	burial removal, Structure 39.
2090	circular	17.0	burial removal, Structure 39.
2091	circular	18.0	burial removal, Structure 39.
2092	circular	18.0	burial removal, Structure 39.
2093	circular	19.0	burial removal, Structure 39.
2094	circular	20.0	burial removal, Structure 39.
2095	circular	20.0	burial removal, Structure 39.
2096	circular	19.0	burial removal, Structure 39.
2097	circular	17.0	burial removal, Structure 39.
2098	circular	15.0	burial removal, Structure 40?
2099	circular	15.0	burial removal, Structure 40?
2100	circular	14.0	burial removal, Structure 40?
2101	circular	15.0	burial removal, Structure 40?
2102	circular	14.0	burial removal, Structure 40?
2103	circular	17.0	burial removal, Structure 40.
2104	circular	20.0	burial removal, Structure 40.
2105	circular	16.0	burial removal, Structure 40.
2106	circular	25.0	burial removal, Structure 40.
2107	circular	14.0	burial removal, Structure 40.
2108	circular	15.0	burial removal, Structure 40.
2109	circular	15.0	burial removal, Structure 40.
2110	circular	18.0	burial removal, Structure 40.
2111	circular	20.0	burial removal, Structure 40.
2112	circular	12.0	burial removal, Structure 40.
2113	circular	19.0	burial removal, Structure 40.
2114	circular	25.0	burial removal, Structure 40.
2115	circular	16.0	burial removal, Structure 40.
2116	circular	16.0	burial removal, Structure 40.
2117	circular	25.0	burial removal, Structure 40.
2118	circular	15.0	burial removal, Structure 40.
2119	circular	15.0	burial removal, Structure 40.
2120	circular	14.0	burial removal, Structure 40.
2121	circular	15.0	burial removal, Structure 40.
2122	circular	15.0	burial removal, Structure 40.
2123	circular	15.0	burial removal, Structure 40.
2124	circular	13.0	burial removal, Structure 40.
2125	circular	20.0	burial removal, Structure 40.
2126	circular	17.0	burial removal, Structure 40.
2127	circular	11.0	burial removal, Structure 40.
2130	circular	20.0	burial removal, Structure 41.
2131	circular	20.0	burial removal, Structure 41.
2132	circular	16.0	burial removal, Structure 41.
2133	circular	21.0	burial removal, Structure 41.
2134	circular	20.0	burial removal, Structure 41.
2135	circular	25.0	burial removal, Structure 41.
2136	circular	25.0	burial removal, Structure 41.
2137	circular	18.0	burial removal, Structure 41.
2138	circular	25.0	burial removal, Structure 41.
2139	circular	20.0	burial removal, Structure 41.
2140	circular	13.0	burial removal, Structure 41.
2141	circular	20.0	burial removal, Structure 41.
2142	circular	15.0	burial removal, Structure 41.
2143	circular	20.0	burial removal, Structure 41.
2144	circular	14.0	burial removal, Structure 41.
2145	circular	18.0	burial removal, Structure 41.

Table 37. A Summary List of Posts for the 1997 Investigations. *

Feature	Plan-view	Diameter	Comments
2146	circular	20.0	burial removal, Structure 41.
2147	circular	25.0	burial removal, Structure 41.
2148	circular	14.0	burial removal, Structure 41.
2149	circular	17.0	burial removal, Structure 41.
2150	circular	14.0	burial removal, Structure 41.
2151	circular	10.0	burial removal, Structure 41.
2152	circular	14.0	burial removal, Structure 41.
2153	circular	13.0	burial removal, Structure 41.
2154	circular	14.0	burial removal.
2155	circular	16.0	burial removal.
2156	circular	12.0	burial removal.
2157	circular	16.0	burial removal.
2158	circular	22.0	burial removal.
2159	circular	20.0	burial removal, Structure 66.
2161	circular	20.0	burial removal, Structure 66.
2162	circular	17.0	burial removal, Structure 66.
2164	circular	18.0	burial removal, Structure 66.
2165	circular	22.0	burial removal, Structure 66.
2166	circular	13.0	burial removal, Structure 66.
2167	circular	18.0	burial removal, Structure 66.
2168	circular	13.0	burial removal, Structure 66.
2169	circular	17.0	burial removal, Structure 66.
2170	circular	16.0	burial removal, Structure 66.
2172	circular	25.0	burial removal.
2173	circular	10.0	burial removal.
2177	circular	20.0	burial removal, Structure 5.
2178	circular	15.0	burial removal, Structure 5.
2179	circular	14.0	burial removal, Structure 5.
2180	circular	20.0	burial removal, Structure 5.
2181	circular	20.0	burial removal, Structure 5?
2184	circular	22.0	burial removal, Structure 43.
2185	circular	12.0	burial removal, Structure 43.
2186	circular	15.0	burial removal, Structure 43.
2187	circular	12.0	burial removal, Structure 43.
2188	circular	14.0	burial removal, Structure 43.
2189	circular	13.0	burial removal, Structure 43.
2190	circular	10.0	burial removal, Structure 43.
2191	circular	17.0	burial removal, Structure 43.
2192	circular	15.0	burial removal, Structure 43.
2193	circular	15.0	burial removal, Structure 43.
2194	circular	17.0	burial removal, Structure 43.
2195	circular	15.0	burial removal, Structure 43.
2196	circular	20.0	burial removal, Structure 43.
2197	circular	17.0	burial removal, Structure 43.
2198	circular	16.0	burial removal, Structure 43.
2199	circular	15.0	burial removal, Structure 43.
2205	circular	16.0	burial removal, Structure 42.
2206	circular	17.0	burial removal, Structure 42.
2207	circular	18.0	burial removal, Structure 42.
2208	circular	21.0	burial removal, Structure 42.
2209	circular	13.0	burial removal, Structure 42.
2210	circular	16.0	burial removal, Structure 42.
2211	circular	22.0	burial removal, Structure 42.
2212	circular	21.0	burial removal, Structure 42.
2213	circular	15.0	burial removal, Structure 42.
2214	circular	12.0	burial removal, Structure 42.
2215	circular	20.0	burial removal, Structure 42.
2216	circular	19.0	burial removal, Structure 42.
2217	circular	18.0	burial removal, Structure 42.
2218	circular	22.0	burial removal, Structure 42.
2219	circular	23.0	burial removal, Structure 42.
2220	circular	30.0	burial removal, Structure 42, center support.
2221	circular	25.0	burial removal, Structure 42, center support.
2222	circular	15.0	burial removal, Structure 42.
2223	circular	20.0	burial removal, Structure 42.
2224	circular	25.0	burial removal, Structure 42, center support.

Table 37. A Summary List of Posts for the 1997 Investigations. *

Feature	Plan-view	Diameter	Comments
2225	circular	17.0	burial removal, Structure 42.
2226	circular	20.0	burial removal, Structure 42.
2227	circular	18.0	burial removal, Structure 42.
2228	circular	17.0	burial removal, Structure 42.
2229	circular	17.0	burial removal, Structure 42.
2230	circular	18.0	burial removal, Structure 42.
2231	circular	20.0	burial removal, Structure 44.
2232	circular	25.0	burial removal, Structure 44.
2233	circular	20.0	burial removal, Structure 44.
2234	circular	20.0	burial removal, Structure 44.
2235	circular	15.0	burial removal, Structure 44.
2236	circular	20.0	burial removal, Structure 44.
2237	circular	20.0	burial removal, Structure 44.
2238	circular	15.0	burial removal, Structure 44.
2239	circular	18.0	burial removal, Structure 44.
2240	circular	20.0	burial removal, Structure 44.
2241	circular	20.0	burial removal, Structure 44.
2242	circular	20.0	burial removal, Structure 44.
2243	circular	20.0	burial removal, Structure 44.
2244	circular	17.0	burial removal, Structure 44.
2245	circular	18.0	burial removal, Structure 44.
2246	circular	17.0	burial removal, Structure 44.
2247	circular	17.0	burial removal, Structure 44.
2248	circular	17.0	burial removal, Structure 44.
2249	circular	17.0	burial removal, Structure 44.
2252	circular	17.0	burial removal, Structure 45.
2253	circular	20.0	burial removal, Structure 45.
2254	circular	15.0	burial removal, Structure 45.
2255	circular	10.0	burial removal, Structure 45.
2256	circular	11.0	burial removal, Structure 45.
2257	circular	9.0	burial removal, Structure 45.
2258	circular	10.0	burial removal, Structure 45.
2259	circular	19.0	burial removal, Structure 45.
2260	circular	12.0	burial removal, Structure 45.
2261	circular	15.0	burial removal, Structure 45.
2262	circular	16.0	burial removal, Structure 45.
2263	circular	14.0	burial removal, Structure 45.
2264	circular	19.0	burial removal, Structure 45.
2265	circular	20.0	burial removal, Structure 45.
2266	circular	16.0	burial removal, Structure 45.
2267	circular	20.0	burial removal, Structure 45.
2268	circular	18.0	burial removal, Structure 45.
2269	circular	14.0	burial removal, Structure 45.
2270	circular	17.0	burial removal, Structure 45.
2271	circular	16.0	burial removal, Structure 45.
2272	circular	14.0	burial removal, Structure 45.
2273	circular	18.0	burial removal, Structure 45.
2274	circular	14.0	burial removal, Structure 46.
2275	circular	16.0	burial removal, Structure 46.
2276	circular	15.0	burial removal, Structure 46.
2277	circular	15.0	burial removal, Structure 46.
2278	circular	15.0	burial removal, Structure 46.
2279	circular	16.0	burial removal, Structure 46.
2280	circular	15.0	burial removal, Structure 46.
2281	circular	14.0	burial removal, Structure 46.
2282	circular	15.0	burial removal, Structure 46.
2283	circular	13.0	burial removal, Structure 46.
2284	circular	8.0	burial removal, Structure 46.
2285	circular	11.0	burial removal, Structure 46.
2286	circular	14.0	burial removal, Structure 46.
2287	circular	15.0	burial removal, Structure 46.
2288	circular	15.0	burial removal, Structure 46.
2289	circular	14.0	burial removal, Structure 46.
2290	circular	15.0	burial removal, Structure 46.
2291	circular	12.0	burial removal, Structure 46.
2292	circular	17.0	burial removal, Structure 46.

Table 37. A Summary List of Posts for the 1997 Investigations. *

Feature	Plan-view	Diameter	Comments
2293	circular	16.0	burial removal, Structure 46.
2296	circular	17.0	burial removal, Structure 47.
2297	circular	23.0	burial removal, Structure 47.
2298	circular	24.0	burial removal, Structure 47.
2299	circular	24.0	burial removal, Structure 47.
2300	circular	19.0	burial removal, Structure 47.
2301	circular	25.0	burial removal, Structure 47.
2302	circular	18.0	burial removal, Structure 47.
2303	circular	22.0	burial removal, Structure 47.
2304	circular	22.0	burial removal, Structure 47.
2305	circular	18.0	burial removal.
2306	circular	25.0	burial removal.
2307	circular	20.0	burial removal.
2308	circular	18.0	burial removal, Structure 47.
2309	circular	18.0	burial removal, Structure 47.
2310	circular	20.0	burial removal, Structure 47.
2311	circular	23.0	burial removal, Structure 47.
2312	circular	20.0	burial removal, Structure 47.
2313	circular	21.0	burial removal.
2314	circular	20.0	burial removal.
2315	circular	14.0	burial removal, Structure 48.
2316	circular	17.0	burial removal, Structure 48.
2317	circular	15.0	burial removal, Structure 48.
2318	circular	17.0	burial removal, Structure 48.
2319	circular	13.0	burial removal, Structure 48.
2320	circular	14.0	burial removal, Structure 48.
2321	circular	13.0	burial removal, Structure 48.
2322	circular	14.0	burial removal, Structure 48.
2323	circular	14.0	burial removal, Structure 48.
2324	circular	16.0	burial removal, Structure 48.
2325	circular	13.0	burial removal, Structure 48.
2326	circular	14.0	burial removal, Structure 48.
2327	circular	16.0	burial removal, Structure 48.
2328	circular	17.0	burial removal, palisade.
2329	circular	16.0	burial removal, palisade.
2330	circular	15.0	burial removal, Structure 48.
2331	circular	14.0	burial removal, Structure 48.
2332	circular	18.0	burial removal, Structure 48.
2333	circular	15.0	burial removal, Structure 48.
2334	circular	16.0	burial removal, Structure 48.
2335	circular	18.0	burial removal, Structure 48.
2336	circular	18.0	burial removal, Structure 48.
2337	circular	22.0	burial removal, Structure 48.
2338	circular	17.0	burial removal, Structure 48.
2339	circular	14.0	burial removal, Structure 48.
2340	circular	14.0	burial removal, Structure 48.
2341	circular	18.0	burial removal, Structure 48.
2342	circular	19.0	burial removal, Structure 48.
2343	circular	19.0	burial removal, Structure 48.
2344	circular	17.0	burial removal, Structure 48.
2345	circular	18.0	burial removal, Structure 48.
2346	circular	16.0	burial removal, Structure 48.
2347	circular	20.0	burial removal, interior palisade.
2348	circular	19.0	burial removal.
2349	circular	16.0	burial removal.
2350	circular	20.0	burial removal.
2351	circular	20.0	burial removal.
2352	circular	20.0	burial removal.
2353	circular	17.0	burial removal, Structure 61.
2354	circular	20.0	burial removal, Structure 61.
2355	circular	20.0	burial removal, Structure 61.
2356	circular	14.0	burial removal, Structure 61?
2357	circular	14.0	burial removal, Structure 61.
2358	circular	17.0	burial removal, Structure 61.
2359	circular	20.0	burial removal, Structure 61.
2360	circular	23.0	burial removal, Structure 61.

Table 37. A Summary List of Posts for the 1997 Investigations. *

Feature	Plan-view	Diameter	Comments
2361	circular	18.0	burial removal, Structure 61.
2362	circular	20.0	burial removal, Structure 61.
2363	circular	20.0	burial removal, Structure 61.
2364	circular	17.0	burial removal, Structure 61.
2365	circular	16.0	burial removal, Structure 49.
2366	circular	17.0	burial removal, Structure 49.
2367	circular	16.0	burial removal, Structure 49.
2368	circular	18.0	burial removal, Structure 49.
2369	circular	18.0	burial removal, Structure 49.
2370	circular	14.0	burial removal, Structure 49.
2371	circular	11.0	burial removal, Structure 49.
2372	circular	15.0	burial removal, Structure 49.
2373	circular	15.0	burial removal, Structure 49.
2374	circular	17.0	burial removal, Structure 49.
2375	circular	15.0	burial removal, Structure 49.
2376	circular	15.0	burial removal, Structure 49.
2377	circular	15.0	burial removal, Structure 49.
2378	circular	16.0	burial removal, Structure 49.
2379	circular	14.0	burial removal, Structure 49.
2380	circular	15.0	burial removal, Structure 49.
2381	circular	12.0	burial removal, Structure 49.
2382	circular	15.0	burial removal, Structure 49.
2383	circular	15.0	burial removal, Structure 49.
2384	circular	16.0	burial removal, Structure 49.
2385	circular	15.0	burial removal, Structure 49.
2386	circular	15.0	burial removal, Structure 49.
2387	circular	16.0	burial removal, Structure 49.
2388	circular	23.0	burial removal, Structure 49, central support.
2389	circular	13.0	burial removal, Structure 49.
2390	circular	14.0	burial removal, Structure 49.
2391	circular	14.0	burial removal, Structure 49.
2392	circular	15.0	burial removal, Structure 49.
2394	circular	14.0	burial removal, Structure 49.
2395	circular	12.0	burial removal, Structure 49.
2396	circular	13.0	burial removal, Structure 49.
2397	circular	15.0	burial removal, Structure 49.
2398	circular	17.0	burial removal, Structure 49.
2399	circular	16.0	burial removal, Structure 49.
2400	circular	15.0	burial removal, Structure 49.
2401	circular	15.0	burial removal, Structure 49.
2402	circular	16.0	burial removal, Structure 49.
2403	circular	20.0	burial removal, Structure 49.
2404	circular	20.0	burial removal, Structure 49.
2405	circular	20.0	burial removal, Structure 49, central support.
2406	circular	20.0	burial removal, Structure 49.
2407	circular	16.0	burial removal, Structure 49.
2408	circular	14.0	burial removal, Structure 49.
2409	circular	15.0	burial removal, Structure 49.
2410	circular	13.0	burial removal, Structure 49.
2411	circular	25.0	burial removal, Structure 49, central support.
2413	circular	20.0	burial removal, Structure 49.
2414	circular	25.0	burial removal, Structure 49.
2415	circular	16.0	burial removal, Structure 49.
2416	circular	15.0	burial removal, Structure 49.
2417	circular	16.0	burial removal, Structure 49.
2418	circular	17.0	burial removal, Structure 49.
2419	circular	17.0	burial removal, Structure 49.
2420	circular	17.0	burial removal, Structure 49.
2421	circular	20.0	burial removal, Structure 49.
2422	circular	20.0	burial removal, Structure 49.
2423	circular	18.0	burial removal, Structure 49.
2424	circular	16.0	burial removal, Structure 49.
2425	circular	16.0	burial removal, Structure 49.
2426	circular	20.0	burial removal, Structure 49.
2427	circular	19.0	burial removal, Structure 49.
2428	circular	19.0	burial removal, Structure 49.

Table 37. A Summary List of Posts for the 1997 Investigations. *

Feature	Plan-view	Diameter	Comments
2429	circular	17.0	burial removal, Structure 49.
2430	circular	25.0	burial removal, Structure 49.
2435	circular	30.0	burial removal, Structure 51.
2436	circular	15.0	burial removal, Structure 51.
2437	circular	18.0	burial removal, Structure 51.
2438	circular	14.0	burial removal, Structure 51.
2439	circular	15.0	burial removal, Structure 51.
2440	circular	15.0	burial removal, Structure 51.
2441	circular	10.0	burial removal, Structure 51.
2442	circular	15.0	burial removal, Structure 51.
2443	circular	15.0	burial removal, Structure 51.
2444	circular	30.0	burial removal, Structure 51.
2445	circular	15.0	burial removal, Structure 51.
2446	circular	15.0	burial removal, Structure 51.
2447	circular	16.0	burial removal, Structure 51.
2448	circular	17.0	burial removal, Structure 51.
2449	circular	16.0	burial removal, Structure 51.
2450	circular	20.0	burial removal, Structure 51.
2451	circular	17.0	burial removal, Structure 51.
2452	circular	16.0	burial removal, Structure 51.
2453	circular	17.0	burial removal, Structure 51.
2454	circular	15.0	burial removal, Structure 51.
2455	circular	18.0	burial removal, Structure 51.
2456	circular	18.0	burial removal, Structure 51.
2457	circular	14.0	burial removal, Structure 51.
2459	circular	25.0	burial removal, Structure 52.
2460	circular	15.0	burial removal, Structure 53.
2461	circular	11.0	burial removal, Structure 53.
2462	circular	13.0	burial removal, Structure 53.
2463	circular	30.0	burial removal, Structure 53.
2464	circular	20.0	burial removal, Structure 53.
2465	circular	15.0	burial removal, Structure 53.
2468	circular	25.0	burial removal, Structure 55?
2469	circular	12.0	burial removal, Structure 55.
2470	circular	14.0	burial removal, Structure 55.
2471	circular	15.0	burial removal, Structure 55.
2472	circular	16.0	burial removal, Structure 55.
2473	circular	15.0	burial removal, Structure 55.
2474	circular	18.0	burial removal, Structure 55.
2475	circular	14.0	burial removal, Structure 55.
2476	circular	15.0	burial removal, Structure 55.
2477	circular	15.0	burial removal, Structure 55.
2478	circular	10.0	burial removal, Structure 55.
2479	circular	16.0	burial removal, Structure 56.
2480	circular	15.0	burial removal, Structure 56.
2481	circular	20.0	burial removal, Structure 56.
2483	circular	18.0	burial removal, Structure 57.
2484	circular	17.0	burial removal, Structure 57.
2485	circular	18.0	burial removal, Structure 57.
2486	circular	20.0	burial removal, Structure 57.
2487	circular	20.0	burial removal, Structure 57.
2489	circular	22.0	burial removal, Structure 57.
2490	circular	20.0	burial removal, Structure 57.
2491	circular	20.0	burial removal.
2492	circular	20.0	burial removal.
2493	circular	10.0	burial removal.
2494	circular	18.0	burial removal, Structure 35.
2495	circular	13.0	burial removal, Structure 35.
2496	circular	14.0	burial removal, Structure 35.
2497	circular	19.0	burial removal, Structure 35.
2498	circular	29.0	burial removal, Structure 35.
2499	circular	15.0	burial removal, Structure 35.
2500	circular	17.0	burial removal.
2501	circular	20.0	burial removal.
2502	circular	19.0	burial removal.
2503	circular	17.0	burial removal.

Table 37. A Summary List of Posts for the 1997 Investigations. *

Feature	Plan-view	Diameter	Comments
2504	circular	10.0	burial removal.
2505	circular	13.0	burial removal.
2506	circular	13.0	burial removal.
2507	circular	17.0	burial removal.
2508	circular	20.0	burial removal.
2509	circular	20.0	burial removal, Structure 35.
2510	circular	20.0	burial removal, Structure 35.
2511	circular	19.0	burial removal, Structure 35.
2512	circular	16.0	burial removal, Structure 35.
2513	circular	28.0	burial removal, Structure 35.
2514	circular	12.0	burial removal, Structure 35.
2515	circular	24.0	burial removal.
2516	circular	20.0	burial removal.
2517	circular	12.0	burial removal.
2518	circular	21.0	burial removal, Structure 35.
2519	circular	21.0	burial removal, Structure 35.
2520	circular	28.0	burial removal, Structure 35.
2521	circular	20.0	burial removal, Structure 59.
2522	circular	22.0	burial removal, Structure 59.
2523	circular	24.0	burial removal, Structure 59.
2524	circular	21.0	burial removal, Structure 59.
2525	circular	22.0	burial removal, Structure 59.
2526	circular	24.0	burial removal, Structure 35.
2527	circular	20.0	burial removal.
2529	circular	10.0	burial removal, Structure 62.
2530	circular	16.0	burial removal, Structure 62.
2531	circular	16.0	burial removal, Structure 62.
2532	circular	17.0	burial removal, Structure 62.
2533	circular	15.0	burial removal, Structure 62.
2534	circular	14.0	burial removal, Structure 62.
2535	circular	16.0	burial removal, Structure 62.
2536	circular	16.0	burial removal, Structure 62.
2537	circular	16.0	burial removal, Structure 63.
2538	circular	16.0	burial removal, Structure 63.
2539	circular	16.0	burial removal, Structure 63.
2540	circular	16.0	burial removal, Structure 63.
2541	circular	15.0	burial removal, Structure 63.
2542	circular	16.0	burial removal, Structure 63.
2543	circular	17.0	burial removal, Structure 63.
2544	circular	17.0	burial removal, Structure 63.
2545	circular	17.0	burial removal, Structure 63.
2546	circular	16.0	burial removal, Structure 63.
2547	circular	16.0	burial removal, Structure 63.
2548	circular	30.0	burial removal.
2549	circular	15.0	burial removal, Structure 64.
2550	circular	17.0	burial removal, Structure 64.
2551	circular	18.0	burial removal, Structure 64.
2552	circular	20.0	burial removal, Structure 64.
2553	circular	20.0	burial removal, Structure 64.
2554	circular	20.0	burial removal, Structure 64.
2555	circular	10.0	burial removal, Structure 64.
2556	circular	18.0	burial removal, Structure 64.
2557	circular	21.0	burial removal, Structure 64.
2558	circular	17.0	burial removal.
2559	circular	18.0	burial removal.
2560	circular	23.0	burial removal.
2561	circular	17.0	burial removal, Structure 37?
2562	circular	25.0	burial removal, Structure 37?
2563	circular	20.0	burial removal.
2564	circular	17.0	burial removal, Structure 46.
2565	circular	17.0	burial removal, Structure 46.
2566	circular	12.0	burial removal, Structure 2.

* all measurements in cm.

Plan view and Dimensions: Circular; 2.0 meters diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts:
Ceramics (41): 34 Mississippi Plain, 6 Bell Plain, 1 Kimmswick Plain.
Lithics (6): 1 core, 4 secondary flakes, 1 modified/utilized flake.
Faunal Remains (7): 1 white-tailed deer, 6 indeterminate mammal fragments.
Floral Remains: wood charcoal, hickory nut shell, maize.
Remarks: This large feature was recorded near the edge of the library construction zone just north of the rock ramp leading up to the building pad. The eastern one-half of Feature 15 was removed.

Feature 16
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 1.5 meters in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts:
Ceramics (111): 95 Mississippi Plain, 15 Bell Plain, 1 Kimmswick Fabric-Impressed, 1 Beckwith Incised.
Lithics (38): 3 cores, 2 thin bifaces, 1 primary flake, 7 secondary flakes, 21 blank flakes, 4 blocky debris.
Faunal Remains (13): 1 white-tailed deer, 12 indeterminate mammal fragments.
Floral Remains: wood charcoal.
Remarks: This completely excavated feature represents one of eight (loosely clustered) pits surrounded by Structure 3 to the south, Structure 58 to the west, Structures 13 and 14 to the north, and Structure 8 to the east. Two posts were exposed at the feature base.

Feature 18
Type: Midden remnant.
Plan view and Dimensions: Somewhat oval, roughly 6.0 meters (northwest to southeast) by 3.0 meters (northeast to southwest).
Profile: Unknown.
Depth: Unknown.
Associated Artifacts:
Ceramics (33): 27 Mississippi Plain, 5 Bell Plain, 1 Kimmswick Fabric Impressed.
Faunal Remains (12): 12 indeterminate mammal fragments.
Remarks: Feature 18 was initially defined as a very large, somewhat oval, refuse-filled pit. Subsequent investigations revealed this feature to actually be a remnant of midden fill that covered six refuse-filled pits of various shapes and sizes. This midden was recorded just northwest of Structure 6, southwest of Structure 10, and south of Structure 31.

Feature 18A
Type: Refuse-filled pit.
Plan view and Dimensions: Oval; 1.5 meters (east to west) and 1.0 meters (north to south).
Profile: Unknown.
Depth: Unknown.

Associated Artifacts:
Ceramics (16): 12 Mississippi Plain, 4 Bell Plain.
Faunal Remains (21): 21 large mammal fragments.
Remarks: This oval pit was one of six features exposed under the layer of midden fill initially recorded as Feature 18.

Feature 18B
Type: Refuse-filled pit.
Plan view and Dimensions: Oval; 90.0 cm (northwest to southeast) by 60.0 cm (northeast to southwest).
Profile: Unknown.
Depth: Unknown.
Associated Artifacts:
Ceramics (25): 18 Mississippi Plain, 7 Bell Plain.
Lithics (32): 1 core, 3 secondary sherds, 28 blank flakes.
Faunal Remains (31): 3 white-tailed deer, 27 indeterminate mammal fragments, 1 turtle fragment.
Floral Remains: wood charcoal, hickory nut shell.
Remarks: This oval pit was one of six features exposed under the layer of midden fill initially recorded as Feature 18.

Feature 18C
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 40.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts:
Ceramics (14): 11 Mississippi Plain, 3 Bell Plain.
Lithics (17): 15 blank flakes, 1 blocky debris, 1 metate fragment.
Faunal Remains (1): 1 turtle fragment.
Remarks: This very small, circular pit was one of six features exposed under the layer of midden fill initially recorded as Feature 18.

Feature 18D
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 40.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts:
Ceramics (14): 7 Mississippi Plain, 7 Bell Plain
Lithics (30): 1 secondary flake, 28 blank flakes, 1 rejuvenation flake.
Faunal Remains (15): 4 indeterminate mammal fragments, 1 wild turkey, 10 box turtle fragments.
Remarks: This very small, circular pit was one of six features exposed under the layer of midden fill initially recorded as Feature 18.

Feature 18E
Type: Refuse-filled pit.
Plan view and Dimensions: Circular to oval; 1.8 meters (west to east) by 1.6 meters (north to south).
Profile: Unknown.

Depth: Unknown.
Associated Artifacts:
Ceramics (17): 16 Mississippi Plain, 1 Bell Plain.
Lithics (91): 6 secondary flakes, 82 blank flakes, 3 blocky debris.
Faunal Remains (36): 2 white-tailed deer, 1 squirrel species, 28 indeterminate mammal fragments, 2 bird fragments, 3 turtle fragments.
Floral Remains: wood charcoal.
Remarks: Feature 18E comprises the largest of six features exposed under the layer of midden fill initially recorded as Feature 18.

Feature 18F
Type: Refuse-filled pit.
Plan view and Dimensions: Oval; 1.7 meters (east to west) by 65.0 cm (north to south).
Profile: Unknown.
Depth: Unknown.
Associated Artifacts:
Ceramics (13): 8 Mississippi Plain, 5 Bell Plain.
Lithics (7): 5 secondary flakes, 2 blank flakes.
Remarks: This oval pit was one of six features exposed under the layer of midden fill initially recorded as Feature 18.

Feature 19
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 40.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts:
Ceramics (3): 3 Mississippi Plain (1 partial vessel).
Floral Remains: wood charcoal.
Remarks: Feature 19 was initially defined as the location of a ceramic vessel (Vessel A) within a backhoe trench cut just north of the construction access road (north site area). Further investigation determined this feature was actually a small pit that contained part of a Mississippi Plain vessel.

Feature 20
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 1.5 meters in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts:
Ceramics (25): 23 Mississippi Plain, 2 Bell Plain.
Lithics (1): 1 blank flake.
Faunal Remains (3): 1 white-tailed deer, 2 indeterminate mammal fragments.
Floral Remains: wood charcoal.
Remarks: A substantial portion of this pit was exposed within a backhoe trench cut just north of the construction access road (north site area).

Feature 21
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 1.5 meters in diameter.
Profile: Probable basin-shaped.

Depth: 25.0 cm.
Associated Artifacts:
Ceramics (51): 50 Mississippi Plain, 1 fish effigy.
Lithics (9): 5 blank flakes, 1 blocky debris, 1 stone disk, 1 mano, 1 metate.
Floral Remains: wood charcoal, maize.
Remarks: This pit was recorded just north of Structure 3 and southwest of Structure 13.

Feature 22
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 95.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts:
Ceramics (44): 44 Mississippi Plain.
Lithics (4): 3 blank flakes, 1 abrader.
Faunal Remains (10): 1 bird fragment, 9 turtle fragments.
Floral Remains: wood charcoal.
Remarks: Completely excavated, Feature 22 was one of several pits clustered east of Structure 10, west of Structure 26, and southwest of Structure 24.

Feature 23
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 1.5 meters in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts:
Ceramics (112): 93 Mississippi Plain, 18 Bell Plain, 1 Kimmswick Plain.
Lithics (23): 2 core, 4 secondary flake, 8 blank flake, 6 blocky debris, 1 mano.
Faunal Remains (28): 5 white-tailed deer, 22 indeterminate mammal fragments, 1 wild turkey.
Floral Remains: wood charcoal.
Remarks: Feature 23 was found immediately north of another circular pit, Feature 59. Both of these features occurred just west of Structure 11 and east of Structure 14.

Feature 24
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 85.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts:
Ceramics (8): 7 Mississippi Plain, 1 Bell Plain.
Lithics (2): 1 secondary flake, 1 blank flake.
Faunal Remains (12): 1 indeterminate mammal fragment, 11 turtle fragments.
Floral Remains: wood charcoal.
Remarks: This completely excavated feature represents one of eight (loosely clustered) pits surrounded by Structure 3 to the south, Structure 58 to the west, Structures 13 and 14 to the north, and Structure 8 to the east.

Feature 25 (also designated Feature 66)
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 1.0 meters in diameter

Profile: Unknown.
Depth: Unknown.
Associated Artifacts:
Ceramics (19): 19 Mississippi Plain.
Floral Remains: wood charcoal, black walnut shell, ragweed seed, honey locust seed, poke weed seed, grape seed, maize.
Remarks: Found just south of Feature 24, this feature represents one of eight (loosely clustered) pits surrounded by Structure 3 to the south, Structure 58 to the west, Structures 13 and 14 to the north, and Structure 8 to the east.

Feature 26
Type: Refuse-filled pit.
Plan view and Dimensions: Oval; 1.3 meters (north to south) by 1.0 meters (east to west).
Profile: Unknown.
Depth: Unknown.
Associated Artifacts:
Ceramics (31): 19 Mississippi Plain (including one partial vessel), 10 Bell Plain, 2 negative painted.
Lithics (5): 1 core, 1 thin biface, 2 blank flakes, 1 blocky debris.
Faunal Remains (6): 4 indeterminate mammal fragments, 1 bird fragment, 1 coludridae.
Floral Remains: wood charcoal.
Remarks: This completely excavated pit was initially defined by the presence of a partial ceramic vessel (Vessel D). Feature 26 represents one of eight (loosely clustered) pits surrounded by Structure 3 to the south, Structure 58 to the west, Structures 13 and 14 to the north, and Structure 8 to the east.

Feature 27
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 1.0 meters in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts:
Ceramics (2): 2 Mississippi Plain.
Floral Remains: wood charcoal.
Remarks: Found immediately north of Feature 26, this completely excavated pit was one of eight (loosely clustered) pits surrounded by Structure 3 to the south, Structure 58 to the west, Structures 13 and 14 to the north, and Structure 8 to the east.

Feature 28
Type: Pit.
Plan view and Dimensions: Circular; 1.0 meters in diameter.
Profile: Unknown.
Depth: Shallow.
Associated Artifacts: None.
Remarks: The north one-half of this pit was removed during the fieldwork. Feature 28 was one of seven pits (Features 28, 32, 33, 34, 54, 1775, and 1776) located in a cluster just east of Structure 60, west of Structure 24, and south of Structure 33.

Feature 30
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 1.4 meters in diameter.
Profile: Unknown.
Depth: Shallow.
Associated Artifacts:
Ceramics (4): 3 Mississippi Plain, 1 Bell Plain.
Remarks: Feature 30 was located immediately north of Feature 31. Both pits were exposed northeast of Structure 24 and north of Structure 28. The north one-half of Feature 30 was removed during the investigations.

Feature 31
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 1.0 meters in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts:
Ceramics (1): 1 Mississippi Plain.
Remarks: The north one-half of this feature was removed during the investigations. Feature 31 was located just south of Feature 30. Both pits were exposed northeast of Structure 24 and north of Structure 28.

Feature 32
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 1.55 meters in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts:
Ceramics (1): 1 Mississippi Plain.
Remarks: The north one-half of this pit was removed during the fieldwork. Feature 32 was one of seven pits (Features 28, 32, 33, 34, 54, 1775, and 1776) located in a cluster just east of Structure 60, west of Structure 24, and south of Structure 33.

Feature 33
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 1.3 meters in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts:
Ceramics (7): 6 Mississippi Plain, 1 negative painted.
Faunal Remains (12): 10 indeterminate mammal fragments, 2 bird fragments.
Remarks: The north one-half of this pit was removed during the fieldwork. Feature 33 was one of seven pits (Features 28, 32, 33, 34, 54, 1775, and 1776) located in a cluster just east of Structure 60, west of Structure 24, and south of Structure 33.

Feature 34
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 85.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.

Associated Artifacts:
Ceramics (3): 3 Mississippi Plain.
Lithics (3): 1 thick biface, 1 primary flake, 1 blank flake.
Remarks: The north one-half of this pit was removed during the fieldwork. Feature 34 was one of seven pits (Features 28, 32, 33, 34, 54, 1775, and 1776) located in a cluster just east of Structure 60, west of Structure 24, and south of Structure 33.

Feature 35
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 45.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts:
Ceramics (45): 45 Mississippi Plain.
Remarks: Feature 35 was a small pit recorded south of Structure 6 along the edge of the library building pad. This particular area of the site was severely disturbed by heavy machinery and other construction activity.

Feature 36
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 1.6 meters in diameter.
Profile: Unknown.
Depth: 25.0 cm.
Associated Artifacts:
Ceramics (14): 7 Mississippi Plain, 6 Bell Plain, 1 Kimmswick Plain.
Faunal Remains (75): 75 indeterminate mammal fragments.
Floral Remains: wood charcoal, maize.
Remarks: This particular feature, along with Feature 55, was located west of Structure 6, south of Structure 23, and west of Structure 15. Only the southwest one-quarter of this pit was examined during the fieldwork.

Feature 37
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 1.55 meters in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts:
Ceramics (26): 25 Mississippi Plain, 1 Bell Plain.
Lithics (17): 2 core, 2 primary flake, 3 secondary flake, 8 blank flake, 2 blocky debris.
Faunal Remains (4): 1 white-tailed deer, 3 indeterminate mammal fragments.
Floral Remains: wood charcoal.
Remarks: Feature 37 comprised a large pit exposed just north of the construction access road. All of the fill within this pit was removed.

Feature 38
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 1.1 meters in diameter.
Profile: Unknown.
Depth: Unknown.

Associated Artifacts:
Ceramics (57): 39 Mississippi Plain, 15 Bell Plain, 1 Kimmswick Plain, 1 Beckwith Incised, 1 Mound Place Incised.
Lithics (4): 3 blank flake, 1 celt.
Faunal Remains (164): 101 white-tailed deer, 18 box turtle, 45 turtle fragments.
Remarks: Feature 38 was one of four pits (Features 9, 17, 38, and 39) in a cluster just east of Structure 32, south of Structure 30, and west of Structure 31.

Feature 39
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 1.0 meters in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts:
Ceramics (60): 48 Mississippi Plain, 7 Bell Plain, 2 Kimmswick Fabric Impressed, 2 Kimmswick Plain, 1 sand-tempered.
Lithics (9): 1 core, 1 secondary flake, 7 blank flake.
Faunal Remains (11): 2 indeterminate mammal fragments, 9 box turtle fragments.
Floral Remains: wood charcoal.
Remarks: Feature 39 was one of four pits (Features 9, 17, 38, and 39) in a cluster just east of Structure 32, south of Structure 30, and west of Structure 31.

Feature 40
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 45.0 cm diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts:
Ceramics (1): 1 Beckwith Incised.
Remarks: This small pit was one of three features (Features 40, 41, and 42) found just northeast of Structure 4.

Feature 41
Type: Pit.
Plan view and Dimensions: Circular to oval; 1.5 meters by 1.3 meters.
Profile: Unknown.
Depth: 1.0 meters.
Associated Artifacts: None.
Remarks: This pit was one of three features (Features 40, 41, and 42) found just northeast of Structure 4.

Feature 42
Type: Limestone cluster.
Plan view and Dimensions: Circular; 25.0 cm diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: This small cluster of limestone rocks was one of three features (Features 40, 41, and 42) found just northeast of Structure 4.

Feature 43
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 90.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts:
Ceramics (1): 1 Mississippi Plain.
Lithics (1): 1 blank flake.
Floral Remains: wood charcoal, maize.
Remarks: This pit was exposed along the northeast margin of the library building pad, about five meters south of Structure 4.

Feature 44
Type: Refuse-filled pit.
Plan view and Dimensions: Oval; 1.3 meters (northeast to southwest) by 1.1 meters (northwest to southeast).
Profile: Unknown.
Depth: Unknown.
Associated Artifacts:
Ceramics (2): 1 Bell Plain, 1 Matthews Incised *variety Matthews* (partial vessel).
Remarks: Found with the northeast corner of Structure 22, this oval feature yielded few artifacts.

Feature 45
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 80.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: This unexcavated pit is one of nine features (Features 45, 60, 61, 1397, 1398, 1399, 1400, 2160, and 2163) clustered in the southeast site area, just north of Structure 19. Structure 66 was defined in the vicinity of these pit features.

Feature 46
Type: Refuse-filled pit.
Plan view and Dimensions: Oval; 1.2 meters (north to south) by 90.0 cm (east to west).
Profile: Unknown.
Depth: Unknown.
Associated Artifacts:
Ceramics (12): 9 Mississippi Plain, 2 Bell Plain, 1 Beckwith Incised.
Lithics (5): 3 blank flakes, 2 blocky debris.
Remarks: Feature 46 was defined in the northeast section of Structure 41.

Feature 47
Type: Refuse-filled pit.
Plan view and Dimensions: Oval; 1.1 meters (northwest to southeast) by 95.0 cm (northeast to southwest).
Profile: Unknown.
Depth: Unknown.
Associated Artifacts:
Ceramics (2): 2 Mississippi Plain.

Lithics (2): 2 blank flakes.

Remarks: This oval feature was discovered several meters east of Structure 12 and west of Structure 22.

Feature 48

Type: Ceramic vessel.

Remarks: An isolated vessel exposed along the eastern construction zone border defined Feature 48. Additional investigation in the immediate vicinity uncovered a number of posts later designated Structure 28. Heavy machinery had severely damaged this vessel. Although the vessel form could not be determined, the paste was consistent with Bell Plain ware.

Feature 49

Type: Refuse-filled pit.

Plan view and Dimensions: Circular; 1.0 meters in diameter.

Profile: Unknown.

Depth: Unknown.

Associated Artifacts:

Ceramics (10): 4 Mississippi Plain, 5 Bell Plain, 1 Matthews Incised *variety Matthews*.

Lithics (6): 1 secondary flake, 5 blank flakes.

Faunal Remains (3): 1 squirrel species, 1 bird fragment, 1 turtle fragment.

Remarks: Feature 49 represents one of eight (loosely clustered) pits surrounded by Structure 3 to the south, Structure 58 to the west, Structures 13 and 14 to the north, and Structure 8 to the east.

Feature 50

Type: Refuse-filled pit.

Plan view and Dimensions: Oval; 2.1 meters (northeast to southwest) by 1.5 meters (northwest to southeast).

Profile: Unknown.

Depth: Unknown.

Associated Artifacts:

Ceramics (104): 104 Mississippi Plain.

Lithics (1): 1 secondary flake.

Remarks: This large oval pit was exposed just south of Structure 21 and north of Structure 22.

Feature 51

Type: Refuse-filled pit.

Plan view and Dimensions: Circular; 55.0 cm in diameter.

Profile: Unknown.

Depth: Unknown.

Associated Artifacts:

Ceramics (38): 38 Mississippi Plain.

Remarks: Feature 51 represents a rather small pit found just outside the west corner of Structure 26. Only the south one-half of this feature was removed.

Feature 52

Type: Pit.

Plan view and Dimensions: Circular; 1.25 meters in diameter.

Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: Heavy machinery exposed this pit just outside the southwest corner of Structure 10 and southeast corner of Structure 31.

Feature 53
Type: Refuse-filled pit.
Plan view and Dimensions: Circular to oval; 2.0 meters in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts:
Ceramics (102): 87 Mississippi Plain, 12 Bell Plain, 3 Kimmswick Plain.
Lithics (12): 1 core, 2 primary flakes, 1 secondary flake, 6 blank flakes, 1 blocky debris, 1 mano.
Faunal Remains (7): 1 white-tailed deer, 6 indeterminate mammal fragments.
Floral Remains: wood charcoal.
Remarks: Feature 53 was one of several pits (along with Features 22 and 1774) clustered east of Structure 10, west of Structure 26, and southwest of Structure 24. Investigators removed the northern one-half of this feature.

Feature 54
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 1.45 meters in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts:
Ceramics (24): 18 Mississippi Plain, 4 Bell Plain, 2 Kimmswick Plain.
Lithics (6): 1 secondary flake, 1 blocky debris.
Faunal Remains (35): 34 turtle fragments, 1 drumfish.
Remarks: The north one-half of Feature 54 was excavated. This pit was one of seven features (Features 28, 32, 33, 34, 54, 1775, and 1776) located in a cluster just east of Structure 60, west of Structure 24, and south of Structure 33.

Feature 55
Type: Overlapping refuse-filled pits?
Plan view and Dimensions: Irregular, somewhat heart-shaped; 2.0 meters (northeast by southwest) by 1.6 meters (northwest to southeast) by 1.85 meters (north to south).
Profile: Unknown.
Depth: Unknown.
Associated Artifacts:
Ceramics (37): 27 Mississippi Plain, 9 Bell Plain, 1 negative painted.
Lithics (6): 1 core, 1 secondary flake, 1 disk, 1 nutting stone, 1 unidentified groundstone, 1 hammerstone.
Faunal Remains (18): 1 white-tailed deer, 14 indeterminate mammal fragments, 3 turtle fragments.
Remarks: This feature displays an irregular heart-shaped plan-view that is the likely result of two over-lapping pits. Substantial amounts of daub were present in the pit fill. Several large chunks were retained for laboratory analysis. Structure 15 occurs several meters to the east.

Feature 56
Type: Refuse-filled pit.
Plan view and Dimensions: Oval; 1.5 meters by 1.3 meters.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts:
Ceramics (23): 19 Mississippi Plain, 2 Bell Plain, 1 Beckwith Incised, 1 possible frog effigy.
Lithics (3): 2 blank flakes, 1 blocky debris.
Floral Remains: wood charcoal, maize.
Remarks: Feature 56 was defined several meters west of Structure 12. The south one-half of this pit was removed.

Feature 58
Type: Refuse-filled pit.
Plan view and Dimensions: Oval; 80.0 cm (east to west) by 60.0 cm (north to south).
Profile: Unknown.
Depth: 19.0 cm.
Associated Artifacts:
Ceramics (31): 23 Mississippi Plain, 7 Bell Plain, 1 fish effigy.
Lithics (8): 2 secondary flakes, 6 blank flakes.
Faunal Remains (19): 1 white-tailed deer, 1 raccoon, 9 indeterminate mammal fragments, 8 turtle fragments.
Floral Remains: wood charcoal.
Remarks: This feature was recorded just east of Structure 43 near the building construction pad.

Feature 59
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 1.0 meters in diameter.
Profile: Basin-shaped.
Depth: 16.0 cm.
Associated Artifacts:
Ceramics (48): 36 Mississippi Plain, 9 Bell Plain, 2 negative painted, 1 possible duck effigy.
Lithics (8): 1 thin biface, 5 secondary flakes, 6 blank flakes; 1 blocky debris.
Faunal Remains (19): 1 white-tailed deer, 1 cricetidae, 17 indeterminate mammal fragments.
Floral Remains: wood charcoal.
Remarks: Feature 59 was found immediately south of a larger circular pit (Feature 23). Both of these features occurred just west of Structure 11 and east of Structure 14.

Feature 60
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 1.2 meters in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts:
Ceramics (84): 69 Mississippi Plain, 11 Bell Plain, 2 Kimmswick Fabric Impressed, 1 human effigy, 1 unidentified effigy.

Lithics (23): 1 primary flake, 3 secondary flakes, 15 blank flakes; 3 blocky debris. 1 celt.

Faunal Remains (45): 37 indeterminate mammal fragments, 8 turtle fragments.

Floral Remains: wood charcoal, hickory nut shell, black walnut shell, butternut shell, cultivated bean, maize.

Remarks: This completely excavated pit is one of nine features (Features 45, 60, 61, 1397, 1398, 1399, 1400, 2160, and 2163) clustered in the southeast site area, just north of Structure 19. Structure 66 was defined in the vicinity of these pit features.

Feature 61

Type: Refuse-filled pit.

Plan view and Dimensions: Circular; 1.0 meters in diameter.

Profile: Unknown.

Depth: Unknown.

Associated Artifacts:

Ceramics (3): 2 Mississippi Plain, 1 Kimmswick Unidentified.

Lithics (4): 2 blank flakes, 1 blocky debris, 1 hammerstone.

Remarks: This pit is one of nine features (Features 45, 60, 61, 1397, 1398, 1399, 1400, 2160, and 2163) clustered in the southeast site area, just north of Structure 19. Structure 66 was defined in the vicinity of these pit features.

Feature 62

Type: Refuse-filled pit.

Plan view and Dimensions: Circular; 55.0 cm in diameter.

Profile: Unknown.

Depth: 23.0 cm.

Associated Artifacts:

Ceramics (7): 6 Mississippi Plain, 1 Kimmswick Fabric Impressed.

Lithics (3): 1 blank flake, 1 projectile point, 1 metate.

Floral Remains: wood charcoal, hickory nut shell, black walnut shell, grape seed, maize.

Remarks: This feature is one of four small pits (Features 62, 1401, 1402, and 1403) exposed in the vicinity of Structure 41.

Feature 63

Type: Refuse-filled pit.

Plan view and Dimensions: Circular; 1.0 meters in diameter.

Profile: Unknown.

Depth: 20.0 cm.

Associated Artifacts:

Ceramics (30): 21 Mississippi Plain, 9 Bell Plain.

Lithics (8): 1 secondary flake, 6 blank flakes, 1 unidentified groundstone.

Floral Remains: wood charcoal.

Remarks: This pit was recorded just north of Structure 3 and southwest of Structure 13.

Feature 64

Type: Refuse-filled pit.

Plan view and Dimensions: Circular; 1.2 meters in diameter.

Profile: Unknown.

Depth: 30.0 cm.

Associated Artifacts:

Ceramics (58): 39 Mississippi Plain, 13 Bell Plain, 2 Kimmswick Plain, 3 Beckwith Incised, 1 negative painted.

Lithics (15): 2 secondary flakes, 8 blank flakes, 5 blocky debris.

Floral Remains: wood charcoal, hickory nut shell, persimmon seed, maize.

Remarks: This particular pit was recorded just southeast of the building construction pad. Only the east one-half was investigated.

Feature 65

Type: Pit.

Plan view and Dimensions: Circular; 1.5 meters in diameter.

Profile: Unknown.

Depth: Unknown.

Associated Artifacts: None.

Remarks: This pit was exposed along the eastern border of the library construction zone, just northeast of Structure 65. Removal of the northern one-half of this feature yielded no artifactual material.

Feature 66 (see Feature 25)

Feature 68

Type: Ceramic vessel.

Remarks: This fragmented Mississippi Plain vessel was recorded near the northwest corner of Structure 26. The vessel form was indeterminate.

Feature 69 (also designated Feature 2129)

Type: Refuse-filled pit.

Plan view and Dimensions: Circular; 70.0 cm in diameter.

Profile: Unknown.

Depth: Unknown.

Associated Artifacts:

Ceramics (4): 3 Bell Plain, 1 Beckwith Incised.

Remarks: The eastern one-half of Feature 69 was removed during the project. This pit was recorded just south of Structure 40 and southwest of Structure 7.

Feature 70

Type: Pit.

Plan view and Dimensions: Unknown.

Profile: Unknown.

Depth: Unknown.

Associated Artifacts:

Ceramics (13): 6 Mississippi Plain, 3 Bell Plain, 4 Kimmswick Fabric Impressed.

Lithics (15): 3 secondary flakes, 9 blank flakes, 2 blocky debris, 1 metate.

Faunal Remains (14): 14 indeterminate mammal fragments.

Remarks: The location of this feature is unknown. Limited field notations denote this feature as a “gastropod pit”.

Feature 71

Type: Refuse-filled pit.

Plan view and Dimensions: Circular; 50.0 cm in diameter.

Profile: Somewhat basin-shaped.

Depth: 18.0 cm.
Associated Artifacts:
Ceramics (901): 892 Mississippi Plain, 6 Kimmswick Plain, 3 unidentified incised.
Faunal Remains (1): 1 white-tailed deer.
Remarks: Feature 71 occurs just east of Structure 51, and possibly inside Structure 50. Despite its small size, this (completely excavated) pit contained the largest number of ceramic sherds of any site feature. Seven layers of ceramic sherds (separated by little to no fill) were observed to line the feature base. No other feature from the site area displayed this unusual trait. The limited fill material removed from the top of these ceramic layers was composed of dense, sticky clay (somewhat different from other site feature fill). However, the fill did not yield any cultural artifacts other than an occasional ceramic sherd.

Feature 72
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 1.2 meters in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts:
Ceramics (2): 1 Mississippi Plain, 1 Bell Plain.
Faunal Remains (5): 5 indeterminate mammal fragments.
Floral Remains: wood charcoal, maize.
Remarks: This pit was recorded inside Structure 49, along the southern border of the library construction zone.

Feature 73
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 1.0 meters in diameter.
Profile: Unknown.
Depth: 8.0 cm.
Associated Artifacts:
Ceramics (12): 10 Mississippi Plain, 2 Bell Plain.
Lithics (1): 1 rejuvenation flake.
Floral Remains: wood charcoal.
Remarks: Feature 73 is located just south of Structure 53.

Feature 74
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 1.0 meters in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts:
Ceramics (15): 9 Mississippi Plain, 3 Bell Plain, 2 Kimmswick Fabric Impressed, 1 Kimmswick Plain.
Lithics (2): 2 blank flakes.
Faunal Remains (14): 13 indeterminate mammal fragments, 1 turtle fragment.
Floral Remains: wood charcoal.
Remarks: This pit (along with pit feature 75 to the west) was exposed along the southern margin of the library construction zone. Structure 51 is located several meters to the west.

Feature 75

Type: Refuse-filled pit.

Plan view and Dimensions: Oval; 1.65 meters (southwest to northeast) by 1.4 meters (northwest to southeast).

Profile: Unknown.

Depth: 35.0 cm.

Associated Artifacts:

Ceramics (202): 128 Mississippi Plain, 46 Bell Plain, 4 Kimmswick Fabric Impressed, 12 Kimmswick Plain, 3 Matthews Incised *variety Matthews*, 3 Beckwith Incised, 2 negative painted, 2 frog effigy, 2 unidentified effigy.

Lithics (29): 1 core, 1 primary flake, 3 secondary flakes, 21 blank flakes, 3 blocky debris.

Faunal Remains (113): 5 white-tailed deer, 1 squirrel species, 93 indeterminate mammal fragments, 1 wild turkey, 7 bird fragments, 4 turtle fragments, 2 fish fragments.

Floral Remains: wood charcoal, maize.

Remarks: This pit (along with pit feature 74 to the east) was exposed along the southern margin of the library construction zone. Structure 51 is located several meters to the west.

Feature 76

Type: Refuse-filled pit.

Plan view and Dimensions: Oval; 1.78 meters (northwest to southeast) by 1.3 meters (southwest to northeast).

Profile: Unknown.

Depth: 24.0 cm.

Associated Artifacts:

Ceramics (54): 37 Mississippi Plain, 12 Bell Plain, 4 Kimmswick Plain, 1 negative painted.

Lithics (9): 1 secondary flake, 5 blank flakes, 1 blocky debris, 1 disk, 1 mano.

Faunal Remains (8): 2 white-tailed deer, 5 indeterminate mammal fragments, 1 turtle fragment.

Floral Remains: wood charcoal.

Remarks: Feature 76 was exposed along the southern boundary of the library construction zone. This large pit was one of three found roughly 15 meters south of Structure 3.

Feature 77

Type: Refuse-filled pit.

Plan view and Dimensions: Oval; 1.2 meters (northwest to southeast) by 94.0 cm (southwest to northeast).

Profile: Unknown.

Depth: 25.0 cm.

Associated Artifacts:

Ceramics (5): 5 Mississippi Plain.

Lithics (4): 2 secondary flakes, 1 blank flake, 1 chisel.

Faunal Remains (5): 3 indeterminate mammal fragments, 2 turtle fragments.

Remarks: This pit, exposed along the southern boundary of the library construction zone, was one of three found roughly 15 meters south of Structure 3.

Feature 78

Type: Refuse-filled pit.

Plan view and Dimensions: Oval; 1.6 meters (east to west) by 1.2 meters (north to south).

Profile: Unknown.

Depth: 24.0 cm.

Associated Artifacts:

Ceramics (62): 49 Mississippi Plain, 6 Bell Plain, 1 Kimmswick Fabric-Impressed, 2 negative painted, 5 no temper.

Lithics (11): 1 primary flake, 8 blank flakes, 1 blocky debris, 1 metate.

Remarks: Feature 78 was exposed along the southern boundary of the library construction zone. This pit was one of three found roughly 15 meters south of Structure 3.

Feature 79

Type: Refuse-filled pit.

Plan view and Dimensions: Circular; 1.0 meters in diameter.

Profile: Unknown.

Depth: 10.0 cm

Associated Artifacts:

Ceramics (5): 5 Mississippi Plain.

Lithics (2): 1 secondary flake, 1 blank flake.

Remarks: Stripping activity for a proposed drainage ditch exposed seventeen tightly clustered pits (Features 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 98, 99, 100, and 101) within the southeastern corner of the library construction zone. Excavation of the eastern one-half of Feature 79 yielded few artifacts.

Feature 80

Type: Refuse-filled pit.

Plan view and Dimensions: Circular; 1.0 meters in diameter.

Profile: Unknown.

Depth: 6.0 cm.

Associated Artifacts:

Ceramics (2): 2 Mississippi Plain.

Remarks: Stripping activity for a proposed drainage ditch exposed seventeen tightly clustered pits (Features 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 98, 99, 100, and 101) within the southeastern corner of the library construction zone. The southeastern one-half of Feature 80 was excavated.

Feature 81

Type: Refuse-filled pit.

Plan view and Dimensions: Circular; 1.4 meters in diameter.

Profile: Unknown.

Depth: 14.0 cm.

Associated Artifacts:

Ceramics (26): 20 Mississippi Plain, 5 Bell Plain, 1 human effigy.

Lithics (2): 1 core, 1 secondary flake.

Remarks: Stripping activity for a proposed drainage ditch exposed seventeen tightly clustered pits (Features 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 98, 99, 100, and 101) within the southeastern corner of the library construction zone. The southwestern one-half of Feature 81 was excavated.

Feature 82

Type: Refuse-filled pit.

Plan view and Dimensions: Oval; 1.4 meters (northeast to southwest) by 1.0 meters (northwest to southeast).

Profile: Unknown.

Depth: 30.0 cm.

Associated Artifacts:

Ceramics (26): 20 Mississippi Plain, 5 Bell Plain, 1 human effigy.

Lithics (2): 1 core, 1 secondary flake.

Floral Remains: wood charcoal, hickory nut shell, plum seed, maize.

Remarks: Stripping activity for a proposed drainage ditch exposed seventeen tightly clustered pits (Features 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 98, 99, 100, and 101) within the southeastern corner of the library construction zone.

Feature 83

Type: Refuse-filled pit.

Plan view and Dimensions: Oval; 2.6 meters (east to west) by 2.0 meters (north to south).

Profile: Unknown.

Depth: 40.0 cm.

Associated Artifacts:

Ceramics (73): 50 Mississippi Plain, 21 Bell Plain, 1 Beckwith Incised, 1 fish effigy.

Lithics (11): 1 core, 1 thick biface, 1 secondary flake, 2 blank flakes, 6 disks.

Remarks: Stripping activity for a proposed drainage ditch exposed seventeen tightly clustered pits (Features 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 98, 99, 100, and 101) within the southeastern corner of the library construction zone.

Feature 84

Type: Refuse-filled pit.

Plan view and Dimensions: Circular; 1.7 meters in diameter.

Profile: Unknown.

Depth: 28.0 cm.

Associated Artifacts:

Ceramics (23): 16 Mississippi Plain, 6 Bell Plain, 1 fish effigy.

Lithics (11): 2 secondary flakes, 6 blank flakes, 3 disks, 1 abrader.

Remarks: Stripping activity for a proposed drainage ditch exposed seventeen tightly clustered pits (Features 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 98, 99, 100, and 101) within the southeastern corner of the library construction zone.

Feature 85

Type: Refuse-filled pit.

Plan view and Dimensions: Circular; 1.3 meters in diameter.

Profile: Unknown.

Depth: 16.0 cm.

Associated Artifacts:

Ceramics (16): 13 Mississippi Plain, 1 Bell Plain, 1 Beckwith Incised, 1 no temper.

Remarks: Stripping activity for a proposed drainage ditch exposed seventeen tightly clustered pits (Features 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 98, 99, 100, and 101) within the southeastern corner of the library construction zone. The southern one-half of Feature 85 was excavated.

Feature 86
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 1.5 meters in diameter.
Profile: Unknown.
Depth: 12.0 cm.
Associated Artifacts:
Ceramics (7): 4 Mississippi Plain, 2 Bell Plain, 1 Kimmswick Plain.
Lithics (3): 2 blank flakes, 1 abrader.
Floral Remains: wood charcoal.
Remarks: Stripping activity for a proposed drainage ditch exposed seventeen tightly clustered pits (Features 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 98, 99, 100, and 101) within the southeastern corner of the library construction zone. The western one-half of Feature 86 was excavated.

Feature 87
Type: Refuse-filled pit.
Plan view and Dimensions: Oval; 2.3 meters (north to south) by 1.4 meters (west to east).
Profile: Unknown.
Depth: 14.0 cm.
Associated Artifacts:
Ceramics (14): 12 Mississippi Plain, 1 Bell Plain, 1 no temper.
Lithics (2): 2 blank flakes.
Remarks: Stripping activity for a proposed drainage ditch exposed seventeen tightly clustered pits (Features 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 98, 99, 100, and 101) within the southeastern corner of the library construction zone. The western one-half of Feature 87 was excavated.

Feature 88
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 1.0 meters in diameter.
Profile: Unknown.
Depth: 7.0 cm.
Associated Artifacts:
Ceramics (1): 1 Mississippi Plain.
Remarks: Stripping activity for a proposed drainage ditch exposed seventeen tightly clustered pits (Features 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 98, 99, 100, and 101) within the southeastern corner of the library construction zone. The northern one-half of Feature 88 was excavated.

Feature 89
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 80.0 cm in diameter.
Profile: Unknown.
Depth: 16.0 cm.
Associated Artifacts:
Ceramics (29): 28 Mississippi Plain, 1 Bell Plain.
Remarks: Stripping activity for a proposed drainage ditch exposed seventeen tightly clustered pits (Features 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 98, 99, 100, and 101) within the southeastern corner of the library construction zone. The southern one-half of Feature 89 was excavated.

Feature 90
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 75.0 cm in diameter.
Profile: Unknown.
Depth: 13.0 cm.
Associated Artifacts:
Ceramics (1): 1 Mississippi Plain.
Remarks: Stripping activity for a proposed drainage ditch exposed seventeen tightly clustered pits (Features 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 98, 99, 100, and 101) within the southeastern corner of the library construction zone. The southern one-half of Feature 90 was excavated.

Feature 91
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 1.0 meters in diameter.
Profile: Unknown.
Depth: 21.0 cm.
Associated Artifacts:
Ceramics (5): 5 Mississippi Plain.
Remarks: Stripping activity for a proposed drainage ditch exposed seventeen tightly clustered pits (Features 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 98, 99, 100, and 101) within the southeastern corner of the library construction zone. The northern one-half of Feature 91 was excavated.

Feature 92
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 50.0 cm in diameter.
Profile: Unknown.
Depth: 5.0 cm.
Associated Artifacts:
Ceramics (13): 12 Mississippi Plain, 1 Bell Plain.
Lithics (2): 1 blank flake, 1 disk.
Remarks: Features 92, 93, and 106 were exposed just south of Structure 44 and north of Structure 57.

Feature 93
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 1.4 meters in diameter.
Profile: Unknown.
Depth: 13.0 cm.
Associated Artifacts:
Ceramics (8): 4 Mississippi Plain, 3 Bell Plain, 1 Beckwith Incised.
Lithics (9): 1 secondary flake, 8 blank flakes.
Remarks: Features 92, 93, and 106 were exposed just south of Structure 44 and north of Structure 57. The western one-half of Feature 93 was excavated.

Feature 94
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 1.3 meters in diameter.
Profile: Unknown.
Depth: 15.0 cm.

Associated Artifacts:
Ceramics (12): 7 Mississippi Plain, 5 Bell Plain.
Lithics (19): 2 secondary flakes, 17 blank flakes.
Floral Remains: wood charcoal.
Remarks: A tight cluster of six pits (Features 94, 95, 96, 97, 104, and 105) were exposed just north of Structure 56, and within the immediate vicinity of Structure 57. The northern one-half of Feature 94 was excavated.

Feature 95
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 1.8 meters in diameter.
Profile: Unknown.
Depth: 15.0 cm.
Associated Artifacts:
Ceramics (6): 5 Mississippi Plain, 1 Bell Plain.
Lithics (5): 4 blank flakes, 1 blocky debris.
Faunal Remains (21): 15 white-tailed deer, 4 indeterminate mammal fragments, 2 box turtle.
Floral Remains: wood charcoal.
Remarks: A tight cluster of six pits (Features 94, 95, 96, 97, 104, and 105) were exposed just north of Structure 56 and within the immediate vicinity of Structure 57. The eastern one-half of Feature 95 was excavated.

Feature 96
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 1.5 meters in diameter.
Profile: Unknown.
Depth: 14.0 cm.
Associated Artifacts:
Ceramics (15): 14 Mississippi Plain, 1 negative painted.
Lithics (1): 1 core.
Faunal Remains (7): 7 white-tailed deer.
Remarks: A tight cluster of six pits (Features 94, 95, 96, 97, 104, and 105) were exposed just north of Structure 56 and within the immediate vicinity of Structure 57. The northern one-half of Feature 96 was excavated.

Feature 97
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 1.2 meters in diameter.
Profile: Unknown.
Depth: 27.0 cm.
Associated Artifacts:
Ceramics (9): 6 Mississippi Plain, 2 Bell Plain, 1 negative painted.
Remarks: A tight cluster of six pits (Features 94, 95, 96, 97, 104, and 105) were exposed just north of Structure 56 and within the immediate vicinity of Structure 57. The northern one-half of Feature 97 was excavated.

Feature 98
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 1.3 meters in diameter.
Profile: Unknown.

Depth: 13.0 cm.
Associated Artifacts:
Ceramics (4): 4 Mississippi Plain.
Remarks: Stripping activity for a proposed drainage ditch exposed seventeen tightly clustered pits (Features 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 98, 99, 100, and 101) within the southeastern corner of the library construction zone. The northern one-half of Feature 98 was excavated.

Feature 99
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 1.2 meters in diameter.
Profile: Unknown.
Depth: 15.0 cm.
Associated Artifacts:
Ceramics (1): 1 Bell Plain.
Remarks: Stripping activity for a proposed drainage ditch exposed seventeen tightly clustered pits (Features 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 98, 99, 100, and 101) within the southeastern corner of the library construction zone. The northern one-half of Feature 99 was excavated.

Feature 100
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 1.0 meters in diameter.
Profile: Unknown.
Depth: 5.0 cm.
Associated Artifacts:
Ceramics (3): 3 Mississippi Plain.
Remarks: Stripping activity for a proposed drainage ditch exposed seventeen tightly clustered pits (Features 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 98, 99, 100, and 101) within the southeastern corner of the library construction zone. The southern one-half of Feature 100 was excavated.

Feature 101
Type: Pit.
Plan view and Dimensions: Circular; 80.0 cm in diameter.
Profile: Unknown.
Depth: 22.0 cm.
Associated Artifacts: None.
Remarks: Stripping activity for a proposed drainage ditch exposed seventeen tightly clustered pits (Features 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 98, 99, 100, and 101) within the southeastern corner of the library construction zone. The southern one-half of Feature 101 was excavated.

Feature 102
Type: Refuse-filled pit.
Plan view and Dimensions: Oval; 1.1 meters (north to south) by 85.0 cm (east to west).
Profile: Unknown.
Depth: 24.0 cm.
Associated Artifacts:
Ceramics (1): 1 Mississippi Plain.
Lithics (1): 1 modified/utilized flake.

Remarks: Feature 102 was recorded near the southeast corner of the library construction zone in the vicinity of Structure 55.

Feature 103
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 90.0 cm in diameter.
Profile: Unknown.
Depth: 7.0 cm.
Associated Artifacts: None.
Remarks: Feature 103 was recorded near the southeast corner of the library construction zone in the vicinity of Structure 55.

Feature 104
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 1.7 meters in diameter.
Profile: Unknown.
Depth: 11.0 cm.
Associated Artifacts: None.
Remarks: A tight cluster of six pits (Features 94, 95, 96, 97, 104, and 105) were exposed just north of Structure 56 and within the immediate vicinity of Structure 57. The northern one-half of Feature 104 was excavated.

Feature 105
Type: Refuse-filled pit.
Plan view and Dimensions: Oval; 1.1 meters (northwest to southeast) by 70.0 cm (northeast to southwest).
Profile: Unknown.
Depth: 14.0 cm.
Associated Artifacts:
Ceramics (1): 1 Mississippi Plain.
Remarks: A tight cluster of six pits (Features 94, 95, 96, 97, 104, and 105) were exposed just north of Structure 56 and within the immediate vicinity of Structure 57. The northern one-half of Feature 105 was excavated.

Feature 106
Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 70.0 cm in diameter.
Profile: Unknown.
Depth: 6.0 cm.
Associated Artifacts: None.
Remarks: Features 92, 93, and 106 were exposed just south of Structure 44 and north of Structure 57. The northern one-half of Feature 106 was excavated.

Feature 107
Type: Refuse-filled pit.
Plan view and Dimensions: Circular, 1.4 meters in diameter.
Profile: Unknown.
Depth: 20.0 cm.
Associated Artifacts:
Ceramics (24): 19 Mississippi Plain, 5 Bell Plain.
Lithics (5): 1 core, 1 thick biface, 3 blank flakes.

Faunal Remains (8): 8 indeterminate mammal fragments.
Floral Remains: wood charcoal.

Remarks: This large circular pit was located (inside Structure 54) along the southern margin of the library construction zone. The southwest portion of this feature was under the remnant of a prepared clay floor. Such a location strongly supports the argument that Feature 107 predates the occupation of Structure 54.

Feature 108

Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 1.0 meters in diameter.
Profile: Unknown.
Depth: 10.0 cm.
Associated Artifacts:
Ceramics (15): 11 Mississippi Plain, 2 Bell Plain, 2 Matthews Incised *variety Matthews*.
Lithics (5): 4 blank flakes, 1 blocky debris.
Faunal Remains (48): 48 indeterminate mammal fragments.
Floral Remains: wood charcoal.

Remarks: Features 108 and 109 were recorded in the vicinity of Structure 37 near the northern border of the library construction zone. Both pits were found during relocation of the access road leading to the building pad ramp.

Feature 109

Type: Refuse-filled pit.
Plan view and Dimensions: Circular; 1.0 meters in diameter.
Profile: Unknown.
Depth: 10.0 cm.
Associated Artifacts:
Ceramics (6): 6 Mississippi Plain.

Remarks: Features 108 and 109 were recorded in the vicinity of Structure 37 near the northern border of the library construction zone. Both pits were found during relocation of the access road leading to the building pad ramp.

Feature 110

Type: Pit.
Plan view and Dimensions: Oval; 1.25 meters (north to south) by 80.0 cm (east to west).
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.

Remarks: Feature 110 was uncovered on the northern margin of the library construction zone. This pit, located between Structures 62 and 63, was exposed during removal of the building pad ramp.

Feature 111

Type: Pit.
Plan view and Dimensions: Oval; 1.6 meters (north to south) by 1.2 meters (east to west).
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: Unknown.

Remarks: This oval pit was discovered in a partially scraped locale near the southeast corner of the library construction zone. Although initial earthmoving activity did remove most of the plowzone level, this particular locale was to be excluded from further construction disturbance. As a result, Feature 111 was not examined.

Feature 112 (see Figure 23)
Type: Hearth.
Plan view and Dimensions: Circular; 40.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts:
Ceramics (1): 1 Mississippi Plain.
Lithics (1): 1 projectile point.
Faunal Remains (1): 1 indeterminate mammal fragment.
Floral Remains: wood charcoal, hickory nut shell, maize.
Remarks: This puddled-clay hearth was recorded within the center of Structure 1. The top of this feature was disturbed by heavy machinery.

Feature 188 (see Figure 24)
Type: Burned limestone slab.
Plan view and Dimensions: Rectangular; 28.0 cm (west to east) by 20.0 cm (north to south).
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: This tabular piece of burned limestone was recorded within the northwest quarter of Structure 2. Whether or not this limestone was burned as a result of a structure fire, or possibly through use, cannot be answered at this time. Possibilities for the purpose of Feature 188 ranges from a seat, to a serving griddle, to some type of base support.

Feature 189 (see Figure 24)
Type: Burned limestone slab.
Plan view and Dimensions: Rectangular; 40.0 cm (north to south) by 25.0 cm (west to east).
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: This tabular piece of burned limestone was also recorded within Structure 2, albeit in the northeast quarter. As with Feature 188, whether or not this limestone was burned as a result of a structure fire or use, cannot be answered at this time. Possibilities for the purpose of Feature 189 ranges from a seat, to a serving griddle, to some type of base support.

Feature 190 (see Figure 24)
Type: Ceramic vessel.
Remarks: Feature 190 comprised a ceramic vessel exposed on the floor of Structure 2, less than one meter south of the north wall. This particular vessel had been partially damaged by heavy machinery, but enough was still present to identify the form as a jar. The paste was consistent with Mississippi Plain ware.

Feature 191 (see Figure 24)
Type: Burned deer antler.
Remarks: A moderate-size section of burned deer antler was exposed on the floor of Structure 2, just inside the north wall towards the northeast corner. This antler occurred just northeast of a Mississippi Plain jar, and northwest of a concentration of burned deer and bear bone.

Feature 192 (see Figure 24)
Type: Ceramic vessel.
Remarks: Feature 192 comprised the remnant of a fish effigy bowl on the floor of Structure 2. This Bell Plain vessel, one of two ceramic vessels plotted on the Structure 2 floor, was located just northeast of the hearth.

Feature 193 (see Figure 24)
Type: Hearth.
Plan view and Dimensions: Circular; about 50.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: This hearth was not made of puddled-clay like that found in other site structures. Feature 193 was defined inside Structure 2 as a heavily-burned circular area with a deep reddish-purple color. In addition, this hearth was not located in the structure center, but off-center about 1.75 meters north of the southern wall.

Feature 519 (see Figures 26 and 27)
Type: Hearth.
Plan view and Dimensions: Circular; initial hearth 56.0 cm in diameter. Refurbished hearth too disturbed to obtain dimensions.
Profile: Basin-shaped.
Depth: Original hearth base defined 14.0 cm below ground surface. A substantial portion of the refurbished hearth had been removed by heavy machinery.
Associated Artifacts:
Ceramics (4): 1 Mississippi Plain, 3 Bell Plain.
Floral Remains: wood charcoal.
Remarks: Feature 519 was located near the center of Structure 3, about two meters north of the west wall. Two construction episodes were observed in the hearth profile. The original hearth consisted of a circular basin (at least 56.0 cm in diameter) lined with puddled-clay. This basin was later filled with about 10 cm of soil, and refurbished with a new lining of puddled-clay.

Feature 572 (see Figures 28 and 29)
Type: Hearth.
Plan view and Dimensions: Roughly circular; 44.0 cm in diameter.
Profile: Conical.
Depth: 16.0 cm below ground surface. The top of this hearth was damaged by heavy machinery.
Associated Artifacts: None.
Remarks: This puddled-clay hearth was located at the center of Structure 4. The fill was composed entirely of ash.

Feature 573 (see Figure 28)
Type: Burned limestone cluster.
Plan view and Dimensions: Somewhat square; 30.0 cm.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: Feature 573 consisted of a somewhat squarish cluster of limestone rocks inside Structure 4. This cluster was recorded one meter north of the central hearth. This feature likely served as a station for cooking or heating activities.

These limestone clusters occur in seven structures across the site (Structures 4, 17, 18, 24, 36, 49, and 59). Similar features have been documented at other study area sites as well (Smith and Moore 1994).

Feature 574 (see Figure 28)
Type: Burned limestone cluster.
Plan view and Dimensions: Somewhat circular; 30.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: Feature 574 consisted of a somewhat circular cluster of limestone rocks inside Structure 4. Similar to Feature 573, this particular cluster was recorded one meter south of the central hearth. This feature likely served as a station for cooking or heating activities.

These limestone clusters occur in seven structures across the site (Structures 4, 17, 18, 24, 36, 49, and 59). Similar features have been documented at other study area sites as well (Smith and Moore 1994).

Feature 651 (see Figure 31)
Type: Hearth.
Plan view and Dimensions: Circular; 40.0 cm in diameter.
Profile: Basin-shaped.
Depth: 5.0 cm below ground surface. Much of this hearth was removed by heavy machinery.
Associated Artifacts:
Floral Remains: wood charcoal.
Remarks: Feature 651 comprised a puddled-clay hearth found at the center of Structure 7.

Feature 694
Type: Pit.
Plan view and Dimensions: Circular; 35.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: Feature 694 was exposed just outside the east wall of Structure 7 towards the northeast corner. This feature was not evaluated during the burial removal program.

Feature 762 (see Figure 30)
Type: Hearth.
Plan view and Dimensions: Circular; 50.0 cm in diameter.
Profile: Unknown.

Depth: Unknown.
Associated Artifacts: None.
Remarks: This hearth was denoted by the remnant of a puddled-clay base in the west corner of Structure 6.

Feature 849
Type: Pit?
Plan view and Dimensions: Circular; 35.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: Feature 849 was exposed just outside the northwest corner of Structure 7. This probable pit was not evaluated during the burial removal program.

Feature 1019 (see Figure 38)
Type: Ceramic vessel.
Remarks: Feature 1019 comprised the first of two ceramic vessels exposed on the floor of Structure 14. This Bell Plain plate, located toward the eastern end of the structure, had been exposed to such intense heat that a portion of the vessel literally melted.

Feature 1020 (see Figure 38)
Type: Ceramic vessel.
Remarks: Feature 1020 comprised the second of two ceramic vessels exposed on the floor of Structure 14. This particular vessel was a Mississippi Plain jar, located towards the eastern side of the structure.

Feature 1080 (see Figure 38)
Type: Ceramic vessel.
Remarks: This feature denoted the remnant of a Mississippi Plain vessel on the floor of Structure 12. Found near the north wall, this vessel of unknown form was severely damaged by heavy machinery.

Feature 1081 (see Figures 35 and 36)
Type: Hearth.
Plan view and Dimensions: Circular; 45.0 cm in diameter.
Profile: Initial construction basin-shaped.
Depth: Initial construction 16.0 below ground surface.
Associated Artifacts:
Ceramics (1): 1 Mississippi Plain.
Floral Remains: wood charcoal, maize.
Remarks: This puddled-clay hearth was built in the center of Structure 12. Two construction events were defined in the feature profile. The initial hearth extended at least 16 cm below ground surface and displayed a basin-shaped profile. A coat of puddled-clay (about 2 cm thick) placed inside this basin formed steeply sloped walls and a flat base. At some point, this hearth was refurbished with a second layer (two to four cm) of puddled-clay about 10 cm above the initial hearth base. Most of this second layer was removed by heavy machinery.

Feature 1115
Type: Pit?

Plan view and Dimensions: Circular; 34.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: Feature 1115 was exposed about one meter outside the west wall of Structure 16. This probable pit was not evaluated during the burial removal program.

Feature 1116
Type: Pit?
Plan view and Dimensions: Circular; 38.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: Feature 1116 was also exposed about one meter outside the west wall of Structure 16, just northwest of Feature 1115. This probable pit was not evaluated during the burial removal program.

Feature 1188 (see Figure 41)
Type: Burned limestone cluster.
Plan view and Dimensions: Somewhat circular; 35.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: Feature 1188 consisted of a somewhat circular cluster of limestone rocks found about one meter northwest of the center of Structure 17. This cluster likely served as a station for cooking or heating activities.

These limestone clusters occur in seven structures across the site (Structures 4, 17, 18, 24, 36, 49, and 59). Similar features have been documented at other study area sites as well (Smith and Moore 1994).

Feature 1306 (see Figure 42)
Type: Burned limestone cluster.
Plan view and Dimensions: Somewhat circular; 25.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: Feature 1306 comprised the remnant of a circular cluster of limestone rocks about one meter north of the Structure 18 center. This cluster likely served as a station for cooking or heating activities.

These limestone clusters occur in seven structures across the site (Structures 4, 17, 18, 24, 36, 49, and 59). Similar features have been documented at other study area sites as well (Smith and Moore 1994).

Feature 1389 (see Figure 43)
Type: Hearth.
Plan view and Dimensions: Circular; 60.0 cm in diameter.
Profile: Basin-shaped.
Depth: Unknown.
Associated Artifacts: None.
Remarks: This hearth of puddled-clay was found at the center of Structure 19.

Feature 1390 (see Figure 43)
Type: Pit.
Plan view and Dimensions: Oval; 1.0 meters (north to south) by 70.0 cm (east to west).
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: Feature 1116 was exposed inside Structure 19, less than one meter south of the central hearth (Feature 1389). This pit was evaluated during the burial removal program by the consulting archaeologists. No artifactual material was recovered from this feature. The relationship of this pit to Structure 19 cannot be adequately assessed given the minimal excavation information.

Feature 1397
Type: Pit.
Plan view and Dimensions: Oval; 88.0 cm (east to west) by 75.0 cm (north to south).
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: No information is available for this particular feature. This pit was one of nine features (Features 45, 60, 61, 1397, 1398, 1399, 1400, 2160, and 2163) clustered in the southeast site area, just north of Structure 19. Structure 66 was defined in the vicinity of these pit features.

Feature 1398
Type: Pit.
Plan view and Dimensions: Oval; 90.0 cm (east to west) by 65.0 cm (north to south).
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: No information is available for this feature. This pit was one of nine features (Features 45, 60, 61, 1397, 1398, 1399, 1400, 2160, and 2163) clustered in the southeast site area, just north of Structure 19. Structure 66 was defined in the vicinity of these pit features.

Feature 1399
Type: Pit.
Plan view and Dimensions: Oval; 65.0 cm (east to west) by 55.0 cm (north to south).
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: No information is available for this small feature. This pit was one of nine features (Features 45, 60, 61, 1397, 1398, 1399, 1400, 2160, and 2163) clustered in the southeast site area, just north of Structure 19. Structure 66 was defined in the vicinity of these pit features.

Feature 1400
Type: Pit.
Plan view and Dimensions: Circular; 38.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.

Remarks: No information is available for this feature. This pit was one of nine features (Features 45, 60, 61, 1397, 1398, 1399, 1400, 2160, and 2163) clustered in the southeast site area, just north of Structure 19. Structure 66 was defined in the vicinity of these pit features.

Feature 1401
Type: Pit.
Plan view and Dimensions: Oval; 48.0 cm (east to west) by 38.0 cm (north to south).
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: No information is available for this feature. This pit was one of four features (Features 62, 1401, 1402, and 1403) clustered in the vicinity of Structure 41.

Feature 1402
Type: Pit.
Plan view and Dimensions: Oval; 40.0 cm (east to west) by 30.0 cm (north to south).
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: No information is available for this feature. This pit was one of four features (Features 62, 1401, 1402, and 1403) clustered in the vicinity of Structure 41.

Feature 1403
Type: Pit.
Plan view and Dimensions: Circular; 40.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: No information is available for this feature. This pit was one of four features (Features 62, 1401, 1402, and 1403) clustered in the vicinity of Structure 41.

Feature 1557
Type: Pit.
Plan view and Dimensions: Circular; 1.0 meters in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: This pit was exposed between Structures 16, 20, and 22 near the center of the construction zone. No artifactual material was recovered from this feature.

Feature 1686 (see Figure 46)
Type: Hearth.
Plan view and Dimensions: Somewhat circular; 45.0 cm in diameter.
Profile: Basin-shaped.
Depth: 6.0 cm.
Associated Artifacts:
Lithics (2): 1 secondary flake, 1 blank flake.
Remarks: This somewhat circular, puddled-clay hearth was located in the center of Structure 24. Although portions of the exterior rim and walls were intact, most of the base (except for the very center) had been disturbed by some unknown activity.

Feature 1687 (see Figure 46)
Type: Burned limestone cluster.
Plan view and Dimensions: Somewhat square; 30.0 cm.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: This feature was one of four such clusters (along with Features 1693, 1694, and 1697) found within Structure 24. Feature 1687 was roughly 1.5 meters north of the central hearth, and likely served as a station for cooking or heating activities. The presence of four clusters in Structure 24 (no other building from the site had more than two) is likely the result of at least one rebuilding (expansion?) episode.

These limestone clusters occur in seven structures across the site (Structures 4, 17, 18, 24, 36, 49, and 59). Similar features have been documented at other study area sites as well (Smith and Moore 1994).

Feature 1693 (see Figure 46)
Type: Burned limestone cluster.
Plan view and Dimensions: Somewhat squarish to irregular; 30.0 cm.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: This feature was one of four such clusters (along with Features 1687, 1694, and 1697) found within Structure 24. Feature 1693 was roughly 1.5 meters west of the central hearth, and likely served as a station for cooking or heating activities. The presence of four clusters in Structure 24 (no other building from the site had more than two) is likely the result of at least one rebuilding (expansion?) episode.

These limestone clusters occur in seven structures across the site (Structures 4, 17, 18, 24, 36, 49, and 59). Similar features have been documented at other study area sites as well (Smith and Moore 1994).

Feature 1694 (see Figure 46)
Type: Burned limestone cluster.
Plan view and Dimensions: Somewhat circular; 25.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: This feature was one of four such clusters (along with Features 1687, 1693, and 1697) found within Structure 24. Feature 1694 occurred about one meter west of the central hearth (just east of Feature 1693), and likely served as a station for cooking or heating activities. The presence of four clusters in Structure 24 (no other building from the site had more than two) is likely the result of at least one rebuilding (expansion?) episode.

These limestone clusters occur in seven structures across the site (Structures 4, 17, 18, 24, 36, 49, and 59). Similar features have been documented at other study area sites as well (Smith and Moore 1994).

Feature 1697 (see Figure 46)
Type: Burned limestone cluster.
Plan view and Dimensions: Somewhat square; 25.0 cm.
Profile: Unknown.
Depth: Unknown.

Associated Artifacts: None.

Remarks: This feature was one of four such clusters (along with Features 1687, 1693, and 1694) found within Structure 24. Feature 1697 was less than one meter southwest of the central hearth, and likely served as a station for cooking or heating activities. The presence of four clusters in Structure 24 (no other building from the site had more than two) is likely the result of at least one rebuilding (expansion?) episode.

These limestone clusters occur in seven structures across the site (Structures 4, 17, 18, 24, 36, 49, and 59). Similar features have been documented at other study area sites as well (Smith and Moore 1994).

Feature 1699 (see Figures 48 and 49)

Type: Hearth (two overlapping hearths).

Plan view and Dimensions: Northeast overlapping hearth was circular, measuring 42.0 cm in diameter. Southwest overlapping hearth was circular, measuring 44.0 cm in diameter.

Profile: Both overlapping hearths generally basin-shaped.

Depth: Both overlapping hearths about 30.0 cm deep.

Associated Artifacts:

Ceramics (1): 1 Mississippi Plain.

Floral Remains: wood charcoal, hickory nut shell, black walnut shell, maize.

Remarks: This feature was the first of two separate hearths recorded inside Structure 25. Feature 1699 was designated the north hearth, with Feature 1700 identified as the south hearth. Interestingly, Feature 1699 itself actually consists of two partially overlapping, puddled-clay hearths designated “A” (northeast) and “B” (southwest) in the field.

The overlapping nature of these two hearths that comprise Feature 1699 does not appear to be the result of refurbishing an existing hearth, but rather the construction of a completely new hearth. Rodent burrows and an intrusive post hampered an assessment of which hearth was completed first. However, the evidence suggests that hearth A was built first, with hearth B constructed afterward on the southwest corner of hearth A

Feature 1700 (see Figures 48 and 50)

Type: Hearth.

Plan view and Dimensions: Circular; 39.0 cm in diameter at top, expanding to 58.0 cm in diameter at depth of 22.0 cm.

Profile: Bell-shaped.

Depth: 24.0 cm.

Associated Artifacts:

Ceramics (4): 3 Mississippi Plain, 1 Bell Plain.

Floral Remains: wood charcoal, hickory nut shell, black walnut shell, maize.

Remarks: This feature was the second of two separate hearths recorded inside Structure 25. Feature 1700 was designated the south hearth, with Feature 1699 defined as the north hearth.

Feature 1700 displayed an unusual bell-shaped profile. Roughly circular in plan-view, the exterior walls consisted of heavily burned, puddled-clay (two cm thick) that flared outward to a depth of 20.0 cm below surface. At 20.0 cm, the puddled clay that had defined the exterior walls was no longer present. The walls became straight at this depth, and were defined by the yellow clay subsoil to 24.0 cm below surface. Yellow clay subsoil also defined the hearth base. Somewhat puzzling was the fact

that the base was not burned. Visible changes to the soil color and texture were absent. The hearth fill was stratified, containing layers with charcoal and ash.

Feature 1767
Type: Pit.
Plan view and Dimensions: Oval; 45.0 cm (north to south) by 30.0 cm (east to west).
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: This pit was found along the southwest corner of Structure 26. No investigations of this feature were conducted.

Feature 1774
Type: Pit.
Plan view and Dimensions: Circular; 80.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: This pit was found several meters northeast of Structure 10 and west of Structure 26. No artifactual material was recovered from this feature.

Feature 1775
Type: Pit.
Plan view and Dimensions: Circular; 1.0 meters in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: This pit was one of seven features (Features 28, 32, 33, 34, 54, 1775, and 1776) located in a cluster just east of Structure 60, west of Structure 24, and south of Structure 33. No artifactual material was recovered from this feature.

Feature 1776
Type: Pit.
Plan view and Dimensions: Circular; 1.0 meters in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: This pit was one of seven features (Features 28, 32, 33, 34, 54, 1775, and 1776) located in a cluster just east of Structure 60, west of Structure 24, and south of Structure 33. No artifactual material was recovered from this feature.

Feature 1792
Type: Pit.
Plan view and Dimensions: Oval; 80.0 cm (north to south) by 50.0 cm (east to west).
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: This pit was located near Structure 28, immediately adjacent to the library construction zone boundary.

Feature 1857
Type: Pit?
Plan view and Dimensions: Circular; 35.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: Features 1857 and 1858 were recorded several meters southeast of Structure 29, along the boundary of the library construction zone. This probable pit was not investigated during the burial removal project.

Feature 1858
Type: Pit?
Plan view and Dimensions: Circular; 35.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: Features 1857 and 1858 were recorded several meters southeast of Structure 29, along the boundary of the library construction zone. This probable pit was not investigated during the burial removal project.

Feature 1913 (also designated Feature 2528)
Type: Hearth.
Plan view and Dimensions: Circular; 45.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: This hearth, designated Structure 35, was exposed by construction activity near the construction ramp for the library building pad. The area in which this feature was recorded could not be evaluated until the latter stages of the construction project. Subsequent investigation of the severely disturbed area defined a number of posts but no definite structural pattern.

Feature 1914 (see Figures 54 and 55)
Type: Hearth.
Plan view and Dimensions: Circular; 37.0 cm in diameter at top, expanding to 54.0 cm in diameter at the base.
Profile: Bell-shaped.
Depth: 30.0 cm.
Associated Artifacts:
Ceramics (2): 1 Mississippi Plain, 1 Bell Plain.
Floral Remains: wood charcoal.
Remarks: Designated Structure 37, this hearth displayed a bell-shaped profile similar to that observed for Feature 1700. Circular in plan-view, the top of Feature 1914 had a rolled appearance and did not appear to have been disturbed by heavy machinery. The exterior walls consisted of a burned puddled-clay that flared outward to 30.0 cm below surface. In some places this puddled-clay was up to 12.0 cm thick. However, this coat abruptly terminated at 30.0 cm to an apparent base of yellow clay subsoil. The base did not have the appearance of having been substantially burned. The hearth fill was stratified, containing burned earth, charcoal and ash.

Feature 1914 was a classic casualty of salvage-mode archaeology, as it was destroyed prior to complete excavation. Heavy rain required that work on this hearth

be stopped for the day. Upon returning to the site, this hearth (and much of the surrounding vicinity) had been covered with a construction pad of shot rock. Additional investigation of this feature was not possible at that point.

Feature 1918
Type: Pit.
Plan view and Dimensions: Circular; 75.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: This pit was exposed several meters north of the Structure 37 hearth, along the northern boundary of the library construction zone.

Feature 1969 (see Figure 53)
Type: Burned limestone cluster (possible central hearth?).
Plan view and Dimensions: Circular; 35.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: Feature 1969 consisted of a circular cluster of limestone rocks at the center of Structure 36. This cluster may have served as the structure hearth due to its central location and larger diameter.

These limestone clusters occur in seven structures across the site (Structures 4, 17, 18, 24, 36, 49, and 59). Similar features have been documented at other study area sites as well (Smith and Moore 1994).

Feature 1970 (see Figure 53)
Type: Limestone concentration.
Plan view and Dimensions: Circular; 20.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: Feature 1970 was defined as a small concentration of limestone rocks less than one meter northwest of Feature 1969 (inside Structure 36). This feature was not similar to the burned limestone clusters recorded within a number of structures across the site area. This particular feature was likely a rock-filled posthole.

Feature 2059
Type: Hearth.
Plan view and Dimensions: Circular; 40.0 cm in diameter.
Profile: Somewhat conical.
Depth: Unknown.
Associated Artifacts:
Ceramics (9): 7 Mississippi Plain, 2 Bell Plain.
Faunal Remains (3): 1 indeterminate mammal fragment, 2 indeterminate fragments.
Floral Remains: wood charcoal, maize.
Remarks: Feature 2059 was recorded inside a partial post pattern designated Structure 38. A circular burned area defined this hearth. No puddled-clay was observed with this feature.

Feature 2128
Type: Pit.
Plan view and Dimensions: Circular; 45.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: This pit was exposed near the southwest corner of Structure 40, and just outside the northeast corner of the large modern trash dump.

Feature 2129 (see Feature 69)

Feature 2160
Type: Pit.
Plan view and Dimensions: Circular; 30.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: No information is available for this small feature. This pit was one of nine features (Features 45, 60, 61, 1397, 1398, 1399, 1400, 2160, and 2163) clustered in the southwest site area, just north of Structure 19. Structure 66 was defined in the vicinity of these pit features.

Feature 2163
Type: Pit.
Plan view and Dimensions: Circular; 60.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: No information is available for this feature. This pit was one of nine features (Features 45, 60, 61, 1397, 1398, 1399, 1400, 2160, and 2163) clustered in the southwest site area, just north of Structure 19. Structure 66 was defined in the vicinity of these pit features.

Feature 2171
Type: Pit.
Plan view and Dimensions: Circular; 40.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: Feature 2171 was one of eight small pits (including Features 35, 2174, 2175, 2176, 2201, 2202, and 2203) exposed in the vicinity of Structures 5, 6, 12, and 13. These features were found within the disturbed construction zone immediately adjacent to the library building pad.

Feature 2174
Type: Pit.
Plan view and Dimensions: Circular; 30.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.

Remarks: Feature 2174 was one of eight small pits (including Features 35, 2171, 2175, 2176, 2201, 2202, and 2203) exposed in the vicinity of Structures 5, 6, 12, and 13. These features were found within the disturbed construction zone immediately adjacent to the library building pad.

Feature 2175
Type: Pit.
Plan view and Dimensions: Circular; 30.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: Feature 2175 was one of eight small pits (including Features 35, 2171, 2174, 2176, 2201, 2202, and 2203) exposed in the vicinity of Structures 5, 6, 12, and 13. These features were found within the disturbed construction zone immediately adjacent to the library building pad.

Feature 2176
Type: Pit.
Plan view and Dimensions: Circular; 40.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: Feature 2176 was one of eight small pits (including Features 35, 2171, 2174, 2175, 2201, 2202, and 2203) exposed in the vicinity of Structures 5, 6, 12, and 13. These features were found within the disturbed construction zone immediately adjacent to the library building pad.

Feature 2182
Type: Hearth.
Plan view and Dimensions: Circular; 45.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: This puddled-clay hearth was exposed within a disturbed zone near the library building construction pad and designated Structure 5.

Feature 2183
Type: Pit.
Plan view and Dimensions: Circular; 90.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: Fish effigy fragment reported.
Remarks: This pit, recorded just east of Structure 43 near the library building pad, partially overlaps Feature 58.

Feature 2200
Type: Hearth.
Plan view and Dimensions: Somewhat oval; 70.0 cm (northeast to southwest) by 50.0 cm (northwest to southeast).
Profile: Generally basin-shaped.
Depth: 6.0 cm.

Associated Artifacts:

Ceramics (3): 3 Beckwith Incised.

Floral Remains: wood charcoal.

Remarks: This hearth remnant was represented by a somewhat oval concentration of burned earth, charcoal, and daub. The edges of this feature were outlined by thin, yet intermittent, sections of puddled-clay that had burned to a bright yellow color. Although the exposed edges were made of burned clay, further evaluation of the hearth determined the rather straight walls and irregular to flat base were not lined with puddled-clay.

Feature 2200 was exposed during the initial stages of the burial removal program within a disturbed zone bordering the library building construction pad. At that time, this feature was defined as a hearth associated with Structure 9. Project constraints prevented further work on this hearth and the surrounding area until the end of the removal program. Additional investigations were eventually performed but failed to identify any associated postholes or other structural features. Given the results of this later work, the initial designation of this feature as a structure hearth may not be valid. Although there was moderate ground disturbance across the immediate area, some evidence of a structure should have been observed.

Feature 2201

Type: Pit.

Plan view and Dimensions: Circular; 35.0 cm in diameter.

Profile: Unknown.

Depth: Unknown.

Associated Artifacts: None.

Remarks: Feature 2201 was one of eight small pits (including Features 35, 2171, 2174, 2175, 2176, 2202, and 2203) exposed in the vicinity of Structures 5, 6, 12, and 13. These features were found within the disturbed construction zone immediately adjacent to the library building pad.

Feature 2202

Type: Pit.

Plan view and Dimensions: Circular; 40.0 cm in diameter.

Profile: Unknown.

Depth: Unknown.

Associated Artifacts: None.

Remarks: Feature 2202 was one of eight small pits (including Features 35, 2171, 2174, 2175, 2176, 2201, and 2203) exposed in the vicinity of Structures 5, 6, 12, and 13. These features were found within the disturbed construction zone immediately adjacent to the library building pad.

Feature 2203

Type: Pit.

Plan view and Dimensions: Circular; 40.0 cm in diameter.

Profile: Unknown.

Depth: Unknown.

Associated Artifacts: None.

Remarks: Feature 2203 was one of eight small pits (including Features 35, 2171, 2174, 2175, 2176, 2201, and 2202) exposed in the vicinity of Structures 5, 6, 12, and 13. These features were found within the disturbed construction zone immediately adjacent to the library building pad.

Feature 2204
Type: Pit.
Plan view and Dimensions: Circular; 35.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: This small pit was located just outside the southwest wall of Structure 42, along the northernmost boundary of the library construction zone.

Feature 2250
Type: Pit?
Plan view and Dimensions: Circular; 75.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: Feature 2250 comprised a (limestone-filled) pit exposed just off the northeast corner of Structure 44. No investigations were conducted on this pit as it was found at the very end of the burial removal project. Questions still exist whether or not this feature was of prehistoric origin.

Feature 2251
Type: Pit?
Plan view and Dimensions: Circular; 75.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: Similar to Feature 2250, this pit comprised a (limestone-filled) feature exposed within the exterior palisade line roughly seven meters north of Structure 44. No investigations were conducted on this pit as it was found at the very end of the burial removal project. Questions still exist whether or not this feature was of prehistoric origin.

Feature 2294
Type: Historic refuse-filled pit.
Plan view and Dimensions: Circular; 1.7 meters in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: Historic ceramic, glass, and bone debris.
Remarks: This large pit, located in the vicinity of Structure 42, contained a substantial amount of historic debris. Excavation data removed by the consulting archaeologist was not available for this analysis.

Feature 2393 (see Figure 61)
Type: Burned limestone cluster.
Plan view and Dimensions: Somewhat circular; 25.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: Feature 2393 consisted of a somewhat circular cluster of limestone rocks inside Structure 49. This particular cluster was recorded one meter northeast of the

central hearth. This feature likely served as a station for cooking or heating activities.

These limestone clusters occur in seven structures across the site (Structures 4, 17, 18, 24, 36, 49, and 59). Similar features have been documented at other study area sites as well (Smith and Moore 1994).

Feature 2412 (see Figure 61)
Type: Hearth.
Plan view and Dimensions: Circular; 25.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts:
Lithics (1): 1 disk.
Remarks: Feature 2412 comprised the remnant of a puddle-clay hearth built in the center of Structure 49.

Feature 2431
Type: Hearth.
Plan view and Dimensions: Oval; 70.0 cm (east to west) by 35.0 cm (north to south).
Profile: Somewhat basin-shaped.
Depth: Unknown.
Associated Artifacts: None.
Remarks: This oval ring of puddled-clay (several centimeters thick) was one of the few features associated with Structure 50. Within this ring was a dark fill of charcoal and ash. A profile of Feature 2431 revealed steep side walls ending at a rather flat base. The clay liner observed at the ground surface ended just before the base. The yellow clay subsoil under the hearth base displayed no visible signs of heat exposure.

Feature 2432 (see Figure 62)
Type: Hearth.
Plan view and Dimensions: Circular; 30.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: This feature was the first of two separate hearths recorded inside Structure 51, with Feature 2432 designated as the east hearth and Feature 2433 defined as the west hearth. Feature 2432 was recorded in the vicinity of the structure's northeast corner, whereas Feature 2433 was located near the structure center. Both hearths were generally circular and constructed of puddled-clay. Time constraints prevented more extensive work on these features.

Feature 2433 (see Figure 62)
Type: Hearth.
Plan view and Dimensions: Circular; 30.0 cm in diameter.
Profile: Unknown.
Depth: Unknown.
Associated Artifacts: None.
Remarks: This feature was the second of two separate hearths recorded inside Structure 51, with Feature 2433 was noted as the west hearth and Feature 2432 identified as the east hearth. Feature 2432 was recorded in the vicinity of the structure's northeast

corner, whereas Feature 2433 was located near the structure center. Both hearths were generally circular and constructed of puddled-clay. Time constraints prevented more extensive work on these features.

Feature 2434 (see Figure 62)
Type: Ceramic vessel.
Remarks: Feature 2434 consisted of a fragmented ceramic vessel recorded on the floor of Structure 51. This possible jar (Bell Plain paste) was found immediately east of Burial 85.

Feature 2458
Type: Hearth.
Plan view and Dimensions: Circular; 35.0 cm in diameter.
Profile: Flat base.
Depth: Unknown. Most of this feature was removed by heavy machinery, as only a few centimeters remained intact.
Associated Artifacts: None.
Remarks: This well-constructed hearth comprised the only evidence of Structure 52. Most of the Feature 2458 locale had been disturbed by heavy machinery. Only the flat base of thick puddled-clay remained intact.

Feature 2466 (see Figure 63)
Type: Ceramic vessel.
Remarks: This feature represented the fragmented remains of a frog effigy jar (Mississippi Plain paste) found on the Structure 54 floor. This vessel was located just northwest of the structure hearth.

Feature 2467 (see Figure 63)
Type: Hearth.
Plan view and Dimensions: Circular; 30.0 cm in diameter.
Profile: Flat base
Depth: Unknown.
Associated Artifacts: None.
Remarks: This puddled-clay hearth was found with the prepared floor remnant of Structure 54. Several centimeters of fill (containing charcoal and ash) were present on top of a flat base.

Feature 2482 (see Figure 64)
Type: Hearth.
Plan view and Dimensions: Slightly oval; 50.0 cm (north to south) by 40.0 cm (east to west).
Profile: Basin-shaped.
Depth: Unknown.
Associated Artifacts:
Ceramics (38): 36 Mississippi Plain, 1 Bell Plain, 1 Matthews Incised, *variety Manly* partial jar.
Remarks: This puddled-clay hearth, along with several posts, was deemed Structure 57. The area east of Feature 2482 was outside the active construction zone and not investigated.

Feature 2488 (see Figure 64)
Type: Ceramic vessel.
Remarks: This notched rim bowl was recovered 2.5 meters northwest of the Structure 57 hearth. The paste was comparable to Bell Plain.

Feature 2528 (see Feature 1913)

APPENDIX C

BURIAL DESCRIPTIONS

Michael C. Moore and Emanuel Breitburg

This appendix provides detailed descriptions of the 66 human graves (with 75 individuals) removed as a result of the Brentwood Library construction project. DuVall & Associates, Inc. performed the identification (and subsequent removal) of these remains between August and November of 1997 under contract with the City of Brentwood. DuVall personnel assigned 92 burial designations (Burials 1-2, 3a, 3b, 4-91) during the initial identification phase of this removal project. Seven of these 92 designations were later determined not to be human burials (Burials 10, 16, 41, 63, 69, 70, and 88). Of the 85 remaining designations, 19 were left in place during the library and parking lot construction (Burials 17-30, 32-34, 40, and 91).

The 19 grave designations not excavated during the library construction project were defined as stone-box burials. Data sheets minimally completed (by the consultant) for these designations recorded two adults (Burials 18 and 40), 15 child/adolescents (Burials 17, 19, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 33, 34), and one infant (Burial 20). Burial 91 is unknown. A comparative review of the consultant field records and Division reanalysis of the removed skeletal remains determined that the field designation "adolescent" was not very accurate. This particular designation had been used for individuals later identified as infants, very young children, and adults. Given the results of the removed remains, most of these unexcavated burials likely contain the remains of infants or very young children.

DuVall personnel cleaned and conducted an initial analysis of the removed individuals prior to their transfer to the Division of Archaeology. Emanuel Breitburg and Michael Moore of the Division reanalyzed these remains upon receipt from DuVall & Associates. The results of this reanalysis have been included in this appendix. A general description of each burial is provided first, using facts from the field records and laboratory observations. Following the description is information on such variables as age, sex, pathology, and anomaly. Age and sex determinations were made using established techniques and information from a variety of sources (Bass 1987; Black 1978; Ditch and Rose 1972; Dittrick and Suchey 1986; Dwight 1894; Flanders 1978; France 1983; Giles 1964; Krogman and Iscan 1986; Moorrees et al. 1963; Steele 1976; Stewart 1979; Symes and Jantz 1983; Ubelaker 1978). Anthropometric measurements have been included when possible.

Nine graves (Burials 37, 42, 43, 53, 57, 61, 64, 66, and 84) yielded multiple individuals that have been assigned number and letter designations (for example Burial 37A and 37B). Five of these multiple interments were recognized in the field (Burials 42, 61, 64, 66, and 84). Burial 66 was initially reported to have three individuals, but the subsequent laboratory analysis determined that the remains of five individuals were present. The laboratory analysis also identified multiple bodies in four graves (Burials 37, 43, 53, and 57) that had been reported in the field as containing one individual. Conversely, three graves (Burials 11, 35, and 51) at Brentwood Library yielded no human skeletal remains.

Burial 3 also has number and letter designations (3a and 3b). However, these designations do not refer to multiple individuals in the same grave, but rather two completely different stone-box graves. The reason for such a confusing field designation remains unknown. Small case letters (a and b) have been used for Burial 3 references to recognize the difference.

Burial 1

Description: Burial 1 consisted of an adult placed in an extended position within a rectangular stone-box. Heavy machinery had removed the capstones and damaged the skeletal remains. The floor was lined with numerous ceramic sherds. No grave goods were recovered from the stone-box.

Age: 40 years +/- 5 years.

Sex: male.

Pathology: Numerous dental caries; destruction of left TM joint; osteoarthritis visible in phalanges, thoracic and lumbar vertebrae, and ribs; healed periostitis on tibia shaft.

Anomaly: none noted.

Metrics: none taken.

Burial 2

Description: The remains of an adult were recovered from this rectangular stone-box. This individual had been placed in an extended position on an earth floor. Previous plowing activity had removed the capstones and disturbed the skeletal remains. Grave items were absent.

Age: 40 years +/- 5 years.

Sex: male.

Pathology: Moderate wear on teeth; calculus buildup on interior maxillary incisors; osteophytosis on vertebrae, rim of scapula, fibula, proximal head of radius, and articular facets of ribs.

Anomaly: Enamel pearls on maxillary molar and premolar.

Metrics:

Femur head diameter	45.0 mm

Burial 3a (Figure 125)

Description: This rectangular stone-box was recorded just south of Burial 3b. Most of the capstones were in place. Inside the grave were the extended remains of an infant/toddler on a stone floor. No mortuary goods were recovered.

Age: 18 months +/- 3 months (teeth).

Sex: unknown.

Pathology: Lesion on left frontal bone (approximately 10 mm in diameter); healed periostitis around lesion hole, but still active below hole; lesion and resorption in right proximal ulna.

Anomaly: none noted.

Metrics:

Right ulna length	106.0 mm

Burial 3b

Description: This small stone-box grave was found just north of Burial 3a. Capstones on both ends of the stone-box had been removed by heavy machinery, with some damage to the cranium. The skeletal remains of an infant had been placed in an extended position on a stone floor. No grave goods were recovered.

Figure 125. Burial 3a, looking south-southwest.

Age: newborn to 6 months.
Sex: unknown.
Pathology: Severe case of criba orbitalia; healing or healed break(?) on right clavicle.
Anomaly: none noted.
Metrics:

Right femur length	79.0 mm

Burial 4

Description: The remains of a child were placed on an earth floor inside a rectangular stone-box. Unfortunately, this burial had been looted, with many of the skeletal elements tossed outside the coffin (along the northwest side). No mortuary items were observed in this grave.
Age: 5 years (postcranial elements), 3 years +/- 6 months (canine).
Sex: unknown.
Pathology: none noted.
Anomaly: none noted.
Metrics: none taken.

Burial 5

Description: Both ends of this rectangular stone-box were removed by heavy machinery. This grave yielded fragmented and disturbed remains of an individual laid on an earth floor. Most of the skeletal elements were found jumbled near the north end of the stone-box, strongly suggesting this grave had been previously looted. No grave goods were recovered.
Age: 40 years +/- 5 years.

Sex: female.
Pathology: Osteoarthritis visible on vertebrae, patella, and tarsals.
Anomaly: none noted.
Metrics: none taken.

Burial 6

Description: Burial 6 consisted of a capped stone-box grave with the fragmented remains of a child. This person was placed on a floor of ceramic sherds in an extended position. A frog effigy jar with strap handles (and subtle bifurcate lug handles) was buried with this individual. The consultant did not record the location of this vessel within the grave.
Age: 5 to 6 years old.
Sex: unknown.
Pathology: Fair amount of wear on canines.
Anomaly: none noted.
Metrics: none taken.

Burial 7

Description: This small stone-box grave was exposed with its capstones intact. Inside were the remains of an infant that had been placed in an extended position on an earth floor. No graves goods recovered from Burial 7.
Age: 6 months +/- 2 months.
Sex: unknown.
Pathology: Periostitis on right tibia shaft (posterior aspect, runs one-half of middle part of shaft).
Anomaly: none noted.
Metrics:

Right ulna length	77.0 mm

Burial 8

Description: Heavy equipment crushed the skeletal elements within this stone-box. Several layers of capstones enclosed the extended remains of a child. This individual was placed on an earth floor, with no burial items found.
Age: 4 years +/- 9 months.
Sex: unknown.
Pathology: none noted.
Anomaly: none noted.
Metrics: none taken.

Burial 9

Description: Burial 9 had been severely disturbed by probable looting activity. The jumbled remains of an adult were recovered inside a partially intact stone-box grave. The floor was earthen. No mortuary artifacts were present inside the coffin.
Age: 40 years +/- 5 years.
Sex: unknown.
Pathology: Osteoarthritis visible in cervical vertebrae, talus, and metapodials. Severe osteophytosis in thoracic vertebrae.
Anomaly: none noted.
Metrics: none taken.

Burial 11

Description: This stone-box was severely disturbed by probable looting activity. No skeletal remains or grave goods were found on the stone floor.

Age: unknown.

Sex: unknown.

Pathology: no remains present.

Anomaly: no remains present.

Metrics: no remains present.

Burial 12

Description: This rectangular stone-box still retained the capstones. Inside the coffin were the extended remains of a child placed on an earth floor. No grave artifacts were recorded.

Age: 6 years +/- 9 months.

Sex: male?

Pathology: Periostitis on interior of left temporal bone; 2nd cervical vertebrae and lumbar vertebrae fused.

Anomaly: none noted.

Metrics:

Right femur length	230.0 mm

Burial 13

Description: This rectangular, capped stone-box grave contained the rather complete remains of an adolescent. The individual was buried in an extended position on a stone floor. No grave artifacts were observed.

Age: 15 years +/- 6 months (dental).

Sex: male?

Pathology: Criba orbitalia present; hypoplasia on incisors; 2nd and 3rd cervical vertebrae fused; lesions on lumbar vertebrae; periostitis on lateral sides of both tibia shafts.

Anomaly: Carabelli's cusp 1st right maxillary molar; 2nd molars occluded.

Metrics:

Left femur length	300.0 mm
Right ulna length	185.0 mm

Burial 14 (Figure 126)

Description: Burial 14 comprised a capped, rectangular stone-box in Structure 18 with the fragmented remains of a young child. This individual had been placed in an extended position on a stone floor. A hunchback human effigy figurine (rattle) was recovered from the right pelvis area.

Age: 4 years +/- 6 months.

Sex: unknown.

Pathology: none noted.

Anomaly: none noted.

Metrics: none taken.

Burial 15 (Figure 127)

Description: Burial 15 represents a rectangular stone-box in Structure 44 disturbed by heavy machinery. Inside the coffin was an infant buried in an extended position on a floor of ceramic sherds. No grave goods were found with this person.

Age: 1 year +/- 3 months.

Sex: unknown.

Figure 126. Burial 14, looking west. Figurine at middle left of stone-box.

Figure 127. Burial 15, looking east.

Pathology: none noted.
Anomaly: none noted.
Metrics: none taken.

Burial 17 - burial not removed.
Burial 18 - burial not removed.
Burial 19 - burial not removed.
Burial 20 - burial not removed.
Burial 21 - burial not removed.
Burial 22 - burial not removed.
Burial 23 - burial not removed.
Burial 24 - burial not removed.
Burial 25 - burial not removed.
Burial 26 - burial not removed.
Burial 27 - burial not removed.
Burial 28 - burial not removed.
Burial 29 - burial not removed.
Burial 30 - burial not removed.

Burial 31
Description: This small, rectangular stone-box contained the partial remains of an infant. The individual was placed in an extended position on a stone floor. No grave items were retrieved.
Age: 1 year +/- 3 months.
Sex: unknown.
Pathology: Resorption observed inner left parietal and occipital bones.
Anomaly: none noted.
Metrics:

Fibula length	87.0 mm

Burial 32 - burial not removed.
Burial 33 - burial not removed.
Burial 34 - burial not removed.

Burial 35
Description: This severely disturbed stone-box in Structure 13 was full of historic brick fragments. Probable looting activity removed many of the coffin slabs and all of the skeletal remains. The extant hole was later filled with modern debris.
Age: unknown.
Sex: unknown.
Pathology: no remains present.
Anomaly: no remains present.
Metrics: no remains present.

Burial 36
Description: Burial 36 was defined as a small, rectangular stone-box in Structure 4. Fragmented skeletal elements from an infant (placed in an extended position) were recovered from a stone floor. No grave goods were observed.
Age: newborn to 3 months.
Sex: unknown.
Pathology: none noted.

Anomaly: none noted.
Metrics: none taken.

Burial 37A (Figure 128)
Description: Burial 37 was initially recorded as a small, rectangular stone-box with the remains of a single individual. Laboratory analysis of the recovered skeletal elements determined that two young children were present inside the stone-box. Both children were the same age. The (field) burial data sheet indicated the skeletal remains were laid in an extended position on an earth floor. Whether this extended burial position refers to one or both individuals cannot be ascertained from the available information. One fish effigy bowl was recovered from the right shoulder area of the individual defined in the field.
Age: 3 years +/- 6 months (dental).
Sex: unknown.
Pathology: none noted.
Anomaly: Ulna length contrasts (much younger) with dental age. Also, one individual had larger teeth than the other.
Metrics:

Left ulna length	87.0 mm

Burial 37B (Figure 128)
Description: Burial 37 was initially recorded as a small, rectangular stone-box with the remains of a single individual. Laboratory analysis of the recovered skeletal elements determined that two young children (of the same age) were present inside the stone-box. The (field) burial data sheet indicated this individual was laid in an extended position on an earth floor. Whether this extended burial position refers to one or both individuals cannot be ascertained from the available information. One fish effigy bowl was recovered from the right shoulder area of the individual defined in the field.
Age: 3 years +/- 6 months (dental).
Sex: unknown.
Pathology: none noted.
Anomaly: One individual had larger teeth than the other.
Metrics: none taken.

Burial 38
Description: The poorly preserved remains of an infant were recovered from this small stone-box. This coffin was constructed with a stone floor. Burial position could not be determined due to the minimal representation of bone. No grave goods were found.
Age: 18 months +/- 3 months.
Sex: unknown.
Pathology: none noted.
Anomaly: none noted.
Metrics: none taken.

Burial 39
Description: This burial comprised a portion of an extended adult. Heavy machinery had destroyed the northern (lower) half of the grave. According to the field burial data sheet, this individual was buried in a pit. There were no indications of a stone-box. No mortuary artifacts were recorded with this burial.
Age: 40 years +/- 5 years.

Figure 128. Burial 37, looking south

Sex: female?
Pathology: Teeth worn; severe calculus buildup around teeth.
Anomaly: none noted.
Metrics: none taken.

Burial 40 – burial not removed.

Burial 42A
Description: This small, rectangular stone-box grave in Structure 10 contained two very young infants placed on a stone floor. Several of the capstones were still in place prior to removal. Burial 42A represents a newborn infant placed in an extended position with the head at the southern grave end. Burial 42B was a slightly older infant placed in an extended position with the head at the northern grave end. The field burial data sheet stated that Burial 42B was probably buried first. No grave goods were recovered from this stone-box.
Age: newborn.
Sex: unknown.
Pathology: none noted.
Anomaly: none noted.
Metrics: none taken.

Burial 42B
Description: This small, rectangular stone-box grave in Structure 10 contained two very young infants placed on a stone floor. Several of the capstones were still in place prior to removal. Burial 42A represents a newborn infant placed in an extended

position with the head at the southern grave end. Burial 42B was a slightly older infant placed in an extended position with the head at the northern grave end. The field burial data sheet stated that Burial 42B was probably buried first. No grave goods were recovered from this stone-box.

Age: newborn.
Sex: unknown.
Pathology: none noted.
Anomaly: none noted.
Metrics: none taken.

Burial 43A

Description: The fragmented and poorly preserved skeletal remains of two infants were recovered from this small stone-box in Structure 10. The burial top had been disturbed by heavy machinery. In addition, slumping of several side stones gave this stone-box a somewhat triangular appearance. Only one individual was noted on the stone floor during the field removal. However, laboratory analysis of the remains revealed that two infants (one definitely older than the other) had been buried in this stone-box. The burial position of the individual identified in the field was indicated as extended. Whether this burial position encompasses both individuals cannot be established with the available information. No artifacts were observed with the remains.

Age: 9 months +/- 2 months (dental).
Sex: unknown.
Pathology: none noted.
Anomaly: none noted.
Metrics: none taken.

Burial 43B

Description: The fragmented and poorly preserved skeletal remains of two infants were recovered from this small stone-box in Structure 10. The burial top had been disturbed by heavy machinery. In addition, slumping of several side stones gave this stone-box a somewhat triangular appearance. Only one individual was noted on the stone floor during the field removal. However, laboratory analysis of the remains revealed that two infants (one definitely older than the other) had been buried in this stone-box. The burial position of the individual identified in the field was indicated as extended. Whether this burial position encompasses both individuals cannot be established with the available information. No artifacts were observed with the remains.

Age: 6 months +/- 2 months (dental).
Sex: unknown.
Pathology: none noted.
Anomaly: none noted.
Metrics:

Left humerus length	65.0 mm

Burial 44

Description: Fairly complete, yet fragmented, skeletal remains were recovered from this rectangular stone-box in Structure 59. All capstones were still intact. The individual was placed in an extended position on an earth floor. No grave artifacts were retrieved.

Age: 4 years +/- 9 months.

Sex: unknown.
Pathology: Criba orbitalia in left orbit.
Anomaly: none noted.
Metrics: none taken.

Burial 45 (Figure 129)
Description: Burial 45 comprised a small, rectangular stone-box with two layers of capstones in Structure 7. One individual, placed in an extended position on a floor of earth, was represented by poorly preserved and fragmented skeletal elements. A human effigy hooded bottle was recovered near the southeast corner of the box.
Age: 1 year +/- 3 months.
Sex: unknown.
Pathology: none noted.
Anomaly: none noted.
Metrics: none taken.

Burial 46
Description: This infant stone-box had been severely disturbed by prior looting activity. Fragmented skeletal remains were scattered across a stone floor. One fractured Mississippi Plain vessel was retrieved from the grave's southeast end.
Age: 9 months +/- 2 months.
Sex: unknown.
Pathology: Periostitis observed on interior cranial bones.
Anomaly: none noted.
Metrics: none taken.

Figure 129. Burial 45, looking southeast (hooded bottle at southeast end of grave).

Burial 47

Description: This grave consisted of a semi-flexed adult male placed in an oval pit. The individual had been buried on his left side, facing north, with the head to the west. Most of the postcranial remains were fragmented and poorly preserved. A greenstone celt was discovered just north of (immediately adjacent to) the individual's midsection. In addition, a Madison style projectile point was recovered from the pit fill after the skeletal remains had been removed.

Age: 30 years +/- 5 years.

Sex: male (dental measurements).

Pathology: Arthritis visible on vertebral facets; osteomyelitis observed on tibia (in the field).

Anomaly: none noted.

Metrics:

Right maxillary canine BL	8.0 mm
Right maxillary canine MD	8.2 mm

Burial 48

Description: This rectangular stone-box contained the remains of an adult male placed in an extended position on an earth floor. Heavy machinery removed the top of the stone-box and fractured a number of skeletal elements. No grave goods were found during the removal.

Age: 45+ years.

Sex: male.

Pathology: Antemortem loss of left mandibular 1st molar; dentin patches on mandibular incisors; severe arthritis on anterior aspects of lumbar vertebrae.

Anomaly: none noted.

Metrics:

Mandible

Ramus height (anterior)	40.0 mm
Body height between M1/M2	31.0 mm
Body thickness	13.0 mm

Burial 49

Description: The jumbled remains of a very robust, adult male were recovered from a partially intact stone-box. Looting activity was the likely cause of this disturbance. One ceramic ear plug was found with the skeletal remains.

Age: 30 years +/- 5 years.

Sex: male.

Pathology: Hypoplasia on mandibular canine; calculus buildup on incisors; slight arthritis on phalanx.

Anomaly: none noted.

Metrics:

Femur head vertical diameter	47.0 mm

Burial 50

Description: Burial 50 contained the disturbed remains of an adult male. Most of the skeletal elements were found near the western end of this rectangular stone-box on an earth floor. No artifacts were retrieved from this grave.

Age: 40 years +/- 5 years.

Sex: male (individual has estimated stature of 5 feet and 6 inches).

Pathology: Calculus buildup on lingual surface of mandibular incisors; carie on maxillary molar; osteoarthritis on lumbar vertebrae and patella; osteophytosis on ribs and tibiae.

Anomaly: none noted.
Metrics:

Left radius length	255.0 mm
Femur head diameter	45.0 mm
Femur shaft circumference	88.0 mm

Burial 51

Description: This location may represent a completely looted stone-box grave, but was excavated as a pit feature (Feature 57). The designation Burial 51 was initially assigned to a somewhat rectangular pit defined by several limestone slabs and numerous ceramic sherds. However, no human skeletal remains were recovered from this locale.

Burial 52

Description: Very few skeletal remains were recovered from this infant stone-box in Structure 15. Heavy machinery had removed the capstones and damaged a substantial portion of the side stones. No grave goods were present.
Age: 6 months +/- 2 months.
Sex: unknown.
Pathology: none noted.
Anomaly: none noted.
Metrics: none taken.

Burial 53A

Description: Burial 53 comprised an undisturbed stone-box grave with the capstones still in place. Several of the side stones had slumped inward. This small grave in Structure 19 yielded the skeletal remains of a fetus (Burial 53A) and a very young child (Burial 53B). Only the child was identified during the field removal. This individual had been placed in an extended position on an earth floor. Subsequent laboratory analysis of the disinterred skeletal elements defined the fetus. The location and position of the fetus cannot be determined with the available information. No grave items were present with the individuals.
Age: fetus.
Sex: unknown.
Pathology: none noted.
Anomaly: none noted.
Metrics:

Femur shaft length	54.5 mm

Burial 53B

Description: Burial 53 comprised an undisturbed stone-box grave with the capstones still in place. Several of the side stones had slumped inward. This small grave in Structure 19 yielded the skeletal remains of a fetus (Burial 53A) and a very young child (Burial 53B). Only the child was identified during the field removal. This individual had been placed in an extended position on an earth floor. Subsequent laboratory analysis of the disinterred skeletal elements defined the fetus. The location and position of the fetus cannot be determined with the available information. No grave items were present with the individuals.
Age: 3 years +/- 6 months.
Sex: unknown.
Pathology: Porosity in occipital bone.

Anomaly: none noted.
Metrics: none taken.

Burial 54

Description: All capstones appeared in place on this small stone-box in Structure 11 prior to removal. Inside the coffin were the intact remains of an infant. This individual had been placed in an extended position on a pottery sherd floor. No mortuary items were associated with this grave.
Age: newborn to 6 months.
Sex: unknown.
Pathology: none noted.
Anomaly: none noted.
Metrics:

Left femur length	79.0 mm

Burial 55

Description: The top of this small stone-box grave in Structure 20 had been disturbed by heavy machinery. Rectangular in plan-view, this coffin contained the (partial) extended remains of a newborn infant. This individual was resting on an earth floor. No grave artifacts were present.
Age: newborn.
Sex: unknown.
Pathology: none noted.
Anomaly: none noted.
Metrics:

Left humerus	
maximum length	63.3 mm
distal epiphyseal breadth	14.1 mm
midshaft ML diameter	4.3 mm
midshaft AP diameter	5.1 mm
Right humerus	
maximum length	65.0 mm
distal epiphyseal breadth	13.3 mm
midshaft ML diameter	4.8 mm
Left radius	
maximum length	61.5 mm
Right ulna	
maximum length	57.9 mm
Left ilium	
illiac breadth	34.6 mm
Left femur	
ML subtrochantric diameter	8.3 mm
ML midshaft diameter	5.4 mm
AP midshaft diameter	4.6 mm
Right femur	
ML subtrochantric diameter	9.5 mm
ML midshaft diameter	5.7 mm
AP midshaft diameter	4.9 mm

Left tibia
proximal epiphyseal breadth 10.2 mm
Right tibia
proximal epiphyseal breadth 10.2 mm

Burial 56

Description: Burial 56 comprised a partially disturbed stone-box with the extended remains of an infant. This small coffin in Structure 40 was constructed with an earth floor, and contained no associated grave items.

Age: 6 months +/- 2 months.

Sex: unknown.

Pathology: none noted.

Anomaly: none noted.

Metrics: none taken.

Burial 57A

Description: A considerable portion of this rectangular, adult stone-box had been removed by (apparent) looting activity. Only the eastern edge, and a portion of the stone floor along the western end, was intact. The remains of one adult were observed during the burial removal. However, subsequent laboratory analysis of the skeletal elements determined that two adults of the same general age (one male and one female) had been placed in this grave. No artifacts were recovered from this burial that was initially defined as Feature 57.

Age: 35+ years.

Sex: male.

Pathology: none noted.

Anomaly: none noted.

Metrics: none taken.

Burial 57B

Description: A considerable portion of this rectangular, adult stone-box had been removed by (apparent) looting activity. Only the eastern edge, and a portion of the stone floor along the western end, was intact. The remains of one adult were observed during the burial removal. However, subsequent laboratory analysis of the skeletal elements determined that two adults of the same general age (one male and one female) had been placed in this grave. No artifacts were recovered from this grave.

Age: 35+ years.

Sex: female.

Pathology: none noted.

Anomaly: none noted.

Metrics: none taken.

Burial 58

Description: All of the Burial 58 capstones had been previously removed by heavy machinery. This small stone-box in Structure 17 contained the disturbed skeletal remains of an infant on a stone floor. This individual was likely buried in an extended position, although this assessment must remain tentative due to the jumbled nature of the elements. No grave artifacts were present.

Age: newborn to 6 months.

Sex: unknown.

Pathology: none noted.
Anomaly: none noted.
Metrics:

Right ulna	
AP midshaft diameter	4.1 mm
ML midshaft diameter	5.2 mm
Left femur	
ML subtrochantric diameter	8.5 mm
Left tibia	
maximum length	68.0 mm
proximal epiphyseal breadth	16.4 mm
distal epiphyseal breadth	10.8 mm
ML subtrochantric diameter	8.5 mm
AP subtrochantric diameter	5.0 mm
ML midshaft diameter	4.7 mm
AP midshaft diameter	4.7 mm

Burial 59
Description: Heavy machinery severely damaged the southern one-quarter of this small stone-box in Structure 16. Based upon the small number of stone slabs present, along with the minimal skeletal remains recovered, this grave may have been victimized by looter activity as well. The individual buried in this grave was likely placed on the stone floor in an extended position. Grave goods were not present.
Age: 1 year +/- 3 months.
Sex: unknown.
Pathology: none noted.
Anomaly: none noted.
Metrics: none taken.

Burial 60
Description: Four layers of capstones were observed with this small stone-box in Structure 34. The infant buried in this rectangular stone-box had been interred in an extended position on a stone floor. No associated funerary objects were recovered from this undisturbed burial.
Age: 1 year +/- 2 months.
Sex: unknown.
Pathology: Slight hypoplasia on left central incisor.
Anomaly: none noted.
Metrics: none taken.

Burial 61A (Figure 130)
Description: This rectangular stone-box contained two individuals placed on an earth floor. Burial 61A denoted the redeposited remains of a young child located at the extreme northwest end of the stone-box. Burial 61B comprised the extended remains of an infant placed just southeast of the Burial 61A remains. The Burial 61A individual appears to have been buried first, and later moved to the end of the stone-box to accommodate the body of Burial 61B. No grave goods were associated with either individual.
Age: 4 years +/- 9 months.
Sex: unknown.
Pathology: Severe resorption of left and right parietal bones.

Figure 130. Burial 61, looking northwest (note redeposited remains of Burial 61A at top of stone-box).

Anomaly: none noted.
Metrics:

Right femur length	175.0 mm

Burial 61B (Figure 130)
Description: This rectangular stone-box contained two individuals placed on an earth floor. Burial 61A denoted the redeposited remains of a young child located at the extreme northwest end of the stone-box. Burial 61B comprised the extended remains of an infant placed just southeast of the Burial 61A remains. The Burial 61A individual appears to have been buried first, and later moved to the end of the stone-box to accommodate the body of Burial 61B. No grave goods were associated with either individual.
Age: 18 months +/- 3 months.
Sex: unknown.
Pathology: Periostitis in occipital bone (granular appearance above dorsal part of petrus).
Anomaly: none noted.
Metrics:

Right tibia length	101.0 mm

Burial 62
Description: Burial 62 was the unfortunate object of several destructive actions. Heavy machinery disturbed this very small stone-box during the initial removal search. The ensuing excavation uncovered a fetal/newborn individual disturbed by looting activity.

Most of the skeletal elements were recorded in the southwest corner of the stone-box on top of a displaced stone slab. These remains and the stone slab were obviously dumped back in the grave shaft after being dug up. Unfortunately, the original burial position cannot be determined. The grave floor was earthen, and no artifacts were retrieved.

Age: fetal/newborn.
Sex: unknown.
Pathology: none noted.
Anomaly: none noted.
Metrics:

Left humerus length	57.5 mm

Burial 64A (Figure 131)

Description: Burial 64 contained the skeletal remains of two adult (probable) females. The rectangular stone-box that accommodated these individuals was constructed with an earth floor. Both individuals were interred in an extended position, one on top of the other, with their heads at the western end of the coffin. No grave items were present.

Age: 40-45 years.
Sex: female? (large female or small male).
Pathology: Inflammation of right and left temporal bone, and also mandibular condyle; severe dental attrition; dentin patches on 2nd and 3rd mandibular molars; osteoarthritis on radius, vertebrae, pelvis, and tibia; severe osteophytes on left ulna; osteophytes on left patella.
Anomaly: Enamel pearls (3) observed on molars.
Metrics:

Mandible	
length	71.0 mm
ramus height	53.0 mm
gonial angle	120 degrees
chin height	33.0 mm
left body height	29.0 mm
left body thickness	13.0 mm
left body BG diameter	95.0 mm
left BC width	128.0 mm
left minimum ramus breadth	32.0 mm
left maximum ramus breadth	45.0 mm
Left humerus	
Maximum length	30.5 mm
vertical diameter head	42.0 mm
Right femur	
maximum length	440.0 mm
shaft circumference	84.0 mm
vertical diameter head	43.0 mm
Left femur	
maximum length	440.0 mm
shaft circumference	85.0 mm
vertical diameter head	42.8 mm
bicondyle width	72.0 mm

Figure 131. Burial 64, looking west.

Burial 64B (Figure 131)

Description: Burial 64 contained the skeletal remains of two adult (probable) females. The rectangular stone-box that accommodated these individuals was constructed with an earth floor. Both individuals were interred in an extended position, one on top of the other, with their heads at the western end of the coffin. No grave items were present.

Age: 45 years +/- 5 years.

Sex: female.

Pathology: Teeth worn; heavy calculus on lingual side of molars and premolars; caries on maxillary 1st and 3rd molars, and mandibular canine; osteophytosis on vertebrae, proximal radius, and 1st phalanges; pitted preauricular sulcus.

Anomaly: Enamel pearl on maxillary 3rd molar.

Metrics:

Right humerus vertical head diameter	43.0 mm
Femur	
head diameter	43.0 mm
shaft circumference	77.0 mm

Burial 65

Description: The fragmented remains of an adult (probably male) were exposed in this rectangular stone-box. Interestingly, few cranial elements were present, yet the post-cranial elements were relatively complete (grave previously looted and skull removed?). This individual was buried in an extended position on an earth floor. No grave goods were present.

Age: 45 years +/- 5 years.

Sex: male?

Pathology: Teeth heavily worn; brownish maxillary lateral and central incisors; calculus buildup on mandibular canines and molars; severe osteoarthritis on lumbar vertebrae, ulna, planar sides of 1st phalanges, and proximal tibia; pitted preauricular sulcus.

Anomaly: none noted.

Metrics:

Left femur	
shaft circumference	85.0 mm
Right femur	
shaft circumference	84.0 mm
head diameter	44.0 mm

Burial 66A

Description: Division review of the consultant field records and photographs determined that Burial 66 actually encompassed two distinct stone-boxes constructed end to end (east/west) with a shared wall. Both stone-boxes had been severely disturbed, as all of the northern side slabs were missing. Numerous jumbled skeletal elements were exposed during the removal. Among these mixed remains were a number of historic artifacts. Laboratory analysis of the prehistoric skeletal remains identified at least five individuals, including three adults and two children. Based upon the previously noted observations, the presence of multiple individuals (at least five) appears to be the result of modern plowing and looting activity rather than native burial practices. The grave floor was earthen. No associated grave goods were found with the skeletal remains.

Age: 25 - 30 years.

Sex: unknown.

Pathology: none noted.

Anomaly: none noted.

Metrics: none taken.

Burial 66B

Description: Division review of the consultant field records and photographs determined that Burial 66 actually encompassed two distinct stone-boxes constructed end to end (east/west) with a shared wall. Both stone-boxes had been severely disturbed, as all of the northern side slabs were missing. Numerous jumbled skeletal elements were exposed during the removal. Among these mixed remains were a number of historic artifacts. Laboratory analysis of the prehistoric skeletal remains identified at least five individuals, including three adults and two children. Based upon the previously noted observations, the presence of multiple individuals (at least five) appears to be the result of modern plowing and looting activity rather than native burial practices. The grave floor was earthen. No associated grave goods were found with the skeletal remains.

Age: 45 years +/- 5 years.

Sex: male.

Pathology: Severe osteomyelitis on right (lateral) tibia and right (distal) fibula; arthritic reactions due to infection.

Anomaly: none noted.

Metrics: none taken.

Burial 66C

Description: Division review of the consultant field records and photographs determined that Burial 66 actually encompassed two distinct stone-boxes constructed end to end (east/west) with a shared wall. Both stone-boxes had been severely disturbed, as all of the northern side slabs were missing. Numerous jumbled skeletal elements were exposed during the removal. Among these mixed remains were a number of historic artifacts. Laboratory analysis of the prehistoric skeletal remains identified at least five individuals, including three adults and two children. Based upon the previously noted observations, the presence of multiple individuals (at least five) appears to be the result of modern plowing and looting activity rather than native burial practices. The grave floor was earthen. No associated grave goods were found with the skeletal remains.

Age: 7 years +/- 9 months.

Sex: unknown.

Pathology: Hypoplasia on several teeth.

Anomaly: none noted.

Metrics: none taken.

Burial 66D

Description: Division review of the consultant field records and photographs determined that Burial 66 actually encompassed two distinct stone-boxes constructed end to end (east/west) with a shared wall. Both stone-boxes had been severely disturbed, as all of the northern side slabs were missing. Numerous jumbled skeletal elements were exposed during the removal. Among these mixed remains were a number of historic artifacts. Laboratory analysis of the prehistoric skeletal remains identified at least five individuals, including three adults and two children. Based upon the previously noted observations, the presence of multiple individuals (at least five) appears to be the result of modern plowing and looting activity rather than native burial practices. The grave floor was earthen. No associated grave goods were found with the skeletal remains.

Age: 4 years +/- 9 months.

Sex: unknown.

Pathology: none noted.

Anomaly: none noted.

Metrics: none taken.

Burial 66E

Description: Division review of the consultant field records and photographs determined that Burial 66 actually encompassed two distinct stone-boxes constructed end to end (east/west) with a shared wall. Both stone-boxes had been severely disturbed, as all of the northern side slabs were missing. Numerous jumbled skeletal elements were exposed during the removal. Among these mixed remains were a number of historic artifacts. Laboratory analysis of the prehistoric skeletal remains identified at least five individuals, including three adults and two children. Based upon the previously noted observations, the presence of multiple individuals (at least five) appears to be the result of modern plowing and looting activity rather than native burial practices. The grave floor was earthen. No associated grave goods were found with the skeletal remains.

Age: adult.

Sex: unknown.

Pathology: none noted.

Anomaly: none noted.
Metrics: none taken.

Burial 67

Description: This infant stone-box contained fragmented skeletal elements in very poor condition. About one-half of the capstones had been present prior to removal. The remains were recovered (extended position?) from an earth floor. No associated grave artifacts were present.
Age: 9 months +/- 2 months.
Sex: unknown.
Pathology: none noted.
Anomaly: none noted.
Metrics: none taken.

Burial 68

Description: The remains of an infant were recovered from this very small, rectangular stone-box in Structure 47. No capstones were visible prior to removal. In addition, the side stones had collapsed inward. This individual was buried in an extended position on a well-made stone floor. A necklace of (at least) 37 marine shell beads was found around the infant's neck. A notched rim bowl had also been placed inside the stone-box. Unfortunately, the location of this vessel was not provided on the consultant's burial data sheet.
Age: 6 months +/- 2 months.
Sex: unknown.
Pathology: Porotic hyperstosis of cranial bones; porotic lesions on eye sockets; periosteal reaction on left femur; osteomyelitis on tibias and fibulas.
Anomaly: unknown.
Metrics: unknown.

Burial 71

Description: A rather sparse number of jumbled skeletal remains were present inside this disturbed stone-box. The north and east stone slabs of this rectangular grave were missing, probably removed by prior looting activity. The grave floor was earthen. No grave goods were present.
Age: 45 years +/- 5 years.
Sex: male (dental).
Pathology: Hypoplasia visible on maxillary left incisor; carie on mandibular molar; severe arthritis on thoracic vertebrae, 1st rib, feet and toe bones.
Anomaly: none noted.
Metrics: none taken.

Burial 72

Description: This severely disturbed stone-box yielded a few scattered ribs of a child on a probable earth floor. Looting activity had removed nearly all of the stone slabs. No grave items were uncovered during the removal.
Age: 5 years +/- 9 months.
Sex: unknown.
Pathology: none noted.
Anomaly: none noted.
Metrics: none taken.

Burial 73 (see Figure 47)

Description: Division personnel first identified Burial 73 as a partial ceramic vessel (vessel B) exposed by heavy machinery inside Structure 24. The initial exploration of this vessel uncovered multiple layers of a large, Mississippi Plain jar. Subsequent removal of these ceramic layers revealed small fragments of human bone, later determined to be an infant or young child. As it turned out, this initially defined "partial ceramic vessel" was actually an infant or young child burial capped with large jar sherds. No mortuary artifacts were present with the skeletal remains. This particular burial style was unique to the Brentwood Library site.

Age: infant or young child.

Sex: unknown.

Pathology: none noted.

Anomaly: none noted.

Metrics: none taken.

Burial 74

Description: Burial 74 was originally defined by Division personnel as a ceramic vessel (vessel C, Feature 1444) uncovered by heavy machinery inside Structure 20. The top of this moderate-size, Mississippi Plain jar (with double-lug handles) had been damaged by the gradall. Work to remove the vessel soon exposed human skeletal remains within the interior fill. Burial 74 was determined to represent the body of a newborn to six-month old infant that had been placed inside a jar. The vessel fill did not yield any associated grave goods. No other burials like this one were recorded during the removal project.

Age: newborn to 6 months.

Sex: unknown.

Pathology:; Hyperstosis (internal and external) on cranial bones; periostial reaction around ears; hyperstosis also on left radius.

Anomaly: none noted.

Metrics:

Left radius length	54.0 mm

Burial 75

Description: This rectangular stone-box contained the relatively complete, yet fragmented remains of a very young child. Although many of the stone slabs at the north end of the grave were missing, the skeletal remains did not appear disturbed. This individual was laid in an extended position on an earth floor. A frog-effigy jar (Beckwith Incised) had been placed near the lower legs. Inside this jar was a cut gastropod (*Campeloma* sp.)

Age: 2 years +/- 6 months (dental).

Sex: unknown.

Pathology: Hypoplasia in deciduous left maxillary incisor (in utero?); periosteal reaction in femur.

Anomaly: none noted.

Metrics: none taken.

Burial 76

Description: Burial 76 comprised an oval pit with the fragmented post-cranial remains of an adult (female?). This person had been placed in a semi-flexed position on (her?) left side, facing east. The head was missing due to the (prehistoric) excavation of a posthole at that exact location. Further examination revealed a total of four

prehistoric postholes around this burial. The other three postholes had been dug along the north and south edges of the grave pit, and did not damage the skeletal remains. A Mississippi Plain vessel (partially damaged by heavy machinery) had been placed just east of the individual's head.

Age: 40 years +/- 5 years.

Sex: female? (femur measurements).

Pathology: none noted.

Anomaly: none noted.

Metrics:

Right femur

circumference	83.0 mm
head diameter	43.7 mm
length	440.0 mm

Burial 77

Description: Burial 77 was another pit grave (initially recorded as Feature 2295) found a few meters southeast of Burial 76. This individual was buried inside an oval pit in a semi-flexed position on (his?) left side, facing northeast. The cranial remains were fragmented but fairly complete. Preservation of the post-cranial remains was generally poor. Two ceramic vessels were associated with this individual. A Mississippi Plain jar had been placed southwest of the body near the pelvis, whereas a Mississippi Plain bowl was found northeast of the body near the head.

Age: 40 - 45 years.

Sex: male? (dental).

Pathology: Hypercementosis on teeth roots; occlusal carie on right 2nd molar; cervical carie on mandibular 2nd molar; hypoplasia on canines.

Anomaly: none noted.

Metrics:

Canine B/L breadth	8.0 mm
Canine M/P breadth	7.2 mm

Burial 78

Description: The adult skeletal remains in this rectangular stone-box had been somewhat disturbed by rodent and (possibly) human actions. This individual was found in an extended position on an earth floor. No grave goods were found.

Age: 35 years +/- 5 years.

Sex: female?

Pathology: Calculus buildup on buccal side of teeth; moderate arthritis on vertebrae; osteophytosis on ribs and vertebrae.

Anomaly: none noted.

Metrics:

Left femur head diameter	42.5 mm
Right femur shaft circumference	86.0 mm

Burial 79 (Figure 132)

Description: Heavy machinery took out the north end of this large, rectangular stone-box, damaging the cranium and a notched rim bowl. Preservation of the skeletal remains inside the coffin was relatively good. This individual had been placed in an extended

Figure 132. Burial 79, looking northwest.

position on a floor of earth. The (damaged) remnants of a notched rim bowl were found just southwest of the head. A ceramic earplug was also found with this person, just above the right hand.

Age: 35 years +/- 5 years.

Sex: female.

Pathology: Hypoplasia on teeth; calculus buildup on lingual side of mandibular molars; dentin patches on molars; arthritis on hands, ulna, vertebrae, and patella; preauricular sulcus present.

Anomaly: none noted.

Metrics:

Maxillary canine B/L	7.0 mm
Maxillary canine M/D	8.0 mm
Left humerus maximum length	350.0 mm
Left innominate maximum height	203.0 mm
Right innominate maximum height	204.0 mm
Right femur	
maximum length	440.0 mm
vertical head diameter	41.2 mm
midshaft circumference	82.0 mm
Left femur	
maximum length	435.0 mm
midshaft circumference	80.0 mm
Left tibia maximum length	350.0 mm
Right tibia maximum length	353.0 mm

Burial 80

Description: Few skeletal remains were recovered inside this rectangular stone-box. Looting activity had disturbed both the coffin as well as the human remains. No grave goods were present inside the stone-box.

Age: 4 years +/- 9 months.

Sex: unknown.

Pathology: Periostitis of right proximal ulna.

Anomaly: none noted.

Metrics: none taken.

Burial 81

Description: This very small stone-box contained the scattered remains of a newborn or very young infant. Most of the coffin slabs and ceramic floor sherds were intact. No grave items were found.

Age: newborn to 6 months.

Sex: unknown.

Pathology: Periostitis on temporal bone, eye orbits, sphenoid, and possibly in pelvic region.

Anomaly: none noted.

Metrics:

Left femur length	74.0 mm

Burial 82

Description: Burial 82 consisted of a rectangular stone-box with an adult female laid in an extended position. The skeletal remains had been placed on an earth floor, and (although fragmented) were generally complete. The stone-box fill yielded one deer astragalus cube.

Age: 40 years +/- 5 years.

Sex: female.

Pathology: Heavy wear on maxillary canines; calculus buildup on teeth; hypoplasia visible; arthritis visible on long bones, vertebrae, hands, and feet; preauricular sulcus.

Anomaly: none noted.

Metrics:

Left humerus maximum length	294.0 mm
Left femur maximum length	417.0 mm
Right femur head width	41.0 mm
Right femur shaft circumference	79.0 mm

Burial 83

Description: This rectangular stone-box grave in Structure 50 contained the relatively complete, yet fragmented, remains of a young child. All of the coffin capstones had been removed prior to burial removal. The interred individual was placed in an extended position on a floor of earth. No associated grave items were recovered from Burial 83.

Age: 4 years +/- 9 months.

Sex: unknown.

Pathology: none noted.

Anomaly: none noted.

Metrics:

Left ulna length	117.0 mm
Right femur length	174.0 mm

Burial 84A

Description: Burial 84 was a rectangular stone-box that contained the well-preserved remains of a child (Burial 84A) and an adult female (Burial 84B). Both people were laid on a ceramic floor in an extended position, with Burial 84A on top of Burial 84B. Burial 84B was the initial occupant of the stone-box, with her head near the northwest end of the coffin. Burial 84A was placed in the coffin afterward, with his/her head at the southeast end of the coffin. Whether or not these individuals were buried together or on separate occasions cannot be ascertained with the information provided on the burial removal form.

Two Mississippi Plain pottery vessels (A and B) were recovered with the skeletal remains. Vessel A denoted a plain surface jar with a direct rim and exaggerated rolled lip. Vessel B, located just west of vessel A, was a frog effigy jar with a direct rim and strap handles. Both vessels had been placed along the right arm of Burial 84A (or possibly the lower left leg of Burial 84B). The burial removal notes stated these vessels were associated with Burial 84A. A ground cannel coal object was found in the left hand of Burial 84B.

Age: 8 years +/- 9 months.

Sex: unknown.

Pathology: Infection observed on temporal and parietal bones; hypoplasia on maxillary incisors and canines, and mandibular canines; caries on maxillary and mandibular 2nd molars.

Anomaly: none noted.

Metrics:

Right femur length	260.0 mm

Burial 84B

Description: Burial 84 was a rectangular stone-box that contained the well-preserved remains of a child (Burial 84A) and an adult female (Burial 84B). Both people were laid on a ceramic floor in an extended position, with Burial 84A on top of Burial 84B. Burial 84B was the initial occupant of the stone-box, with her head near the northwest end of the coffin. Burial 84A was placed in the coffin afterward, with his/her head at the southeast end of the coffin. Whether or not these individuals were buried together or on separate occasions cannot be ascertained with the information provided on the burial removal form.

Two Mississippi Plain pottery vessels (A and B) were recovered with the skeletal remains. Vessel A denoted a plain surface jar with a direct rim and exaggerated rolled lip. Vessel B, located just west of vessel A, was a frog effigy jar with a direct rim and strap handles. Both vessels had been placed along the right arm of Burial 84A (or possibly the lower left leg of Burial 84B). The burial removal notes stated these vessels were associated with Burial 84A. A ground cannel coal object was found in the left hand of Burial 84B.

Age: 45 years +/- 5 years.

Sex: unknown.

Pathology: Deep hole in parietal bone (tumor?); substantial calculus buildup on teeth; antemortem loss of posterior 2nd and 3rd molars; caries observed on right mandibular 1st and 2nd molars; extreme arthritis observed on post-cranial remains (including vertebrae, ribs, and pelvis); deep preauricular sulcus (childbirth).

Anomaly: Wide sciatic notch.

Metrics:

Left humerus	
trochlea width	40.6 mm

head diameter	37.1 mm
midshaft circumference	62.0 mm
Right humerus head diameter	36.9 mm
Left femur	
head diameter	39.8 mm
maximum length	39.6 mm
midshaft circumference	82.0 mm
Right femur	
head diameter	40.4 mm
midshaft circumference	83.0 mm

Burial 85

Description: Tight-fitting capstones were still in place on this small stone-box in Structure 51. Inside the rectangular coffin were the fairly complete, yet fragmented, remains of an infant. This individual had been buried on an earth floor in an extended position. A (freshwater mussel) shell spoon fragment was recovered from the left chest/shoulder area.

Age: 6 months +/- 6 months.

Sex: unknown.

Pathology: Inflammation around temporal bones.

Anomaly: none noted.

Metrics:

Left humerus length	75.0 mm

Burial 86

Description: Burial 86 was initially defined in Structure 49 as a feature denoted by a dark, rectangular stain. Investigation of the feature fill yielded one cranial fragment along with a variety of historic artifacts (ceramics, glass, and a nail). Given the size and shape of the stain, this feature has been interpreted as a completely looted stone-box. No items that could be interpreted as mortuary goods were found.

Age: unknown.

Sex: unknown.

Pathology: none noted.

Anomaly: none noted.

Metrics: none taken.

Burial 87

Description: This rectangular stone-box had been severely damaged by plowing activity. Many of the stone slabs, and portions of the buried individual, were scattered across the general grave locale. Inside the disturbed stone-box were the partial (and fragmented) remains of an adult male in an extended position on an earthen floor. No grave goods were present with this individual.

Age: 45 years +/- 5 years.

Sex: male.

Pathology: Heavy teeth wear; hypoplasia on canines; substantial calculus buildup; caries on cervical necks of teeth; arthritis observed on phalanges.

Anomaly: none noted.

Metrics:

Right femur head circumference	44.0 mm

Burial 89

Description: The partial remains of an adult (male?) were recovered from this rectangular stone-box, despite the presence of several capstones. This individual has been laid in a (probable) extended position on an earthen floor. No grave goods were found.

Age: 40 years +/- 5 years.

Sex: male?

Pathology: Extreme arthritis on hands and feet.

Anomaly: none noted.

Metrics: none taken.

Burial 90

Description: Burial 90 referred to a small, capped stone-box in Structure 56 containing the partial remains of an infant. This stone-box was very well made with dressed slabs and tight-fitting corners. Despite the care in construction, however, the south wall slabs had collapsed into the coffin. The infant was interred in a (probable) extended position on a stone floor. No mortuary items were present with this individual.

Age: 6 months +/- 2 months.

Sex: unknown.

Pathology: Hyperstosis in cranial bones and tibia.

Anomaly: none noted.

Metrics: none taken.

Burial 91 – burial not removed.

APPENDIX D

FREQUENCY OF FAUNAL REMAINS

Judith Sichler

Provenance	Species	Count	Side	End	Element	Burned	Cut	Modified
Gen Surface	bird	2	-	-	phalange	-	-	-
Gen Surface	bird	7	-	-	unidentified fragments	-	-	-
Gen Surface	colubridae	4	-	-	vertebra	-	-	-
Gen Surface	wapiti/deer	4	-	-	antler fragments	-	-	-
Gen Surface	white-tail deer	1	-	-	mandible fragment	1	-	-
Gen Surface	white-tail deer	1	L	-	M1	-	-	-
Gen Surface	white-tail deer	1	-	-	M3	-	-	-
Gen Surface	white-tail deer	1	L	dist	humerus	-	-	-
Gen Surface	white-tail deer	1	L	dist	humerus (diaph)	-	1	-
Gen Surface	white-tail deer	1	L	prox	tibia	-	-	-
Gen Surface	white-tail deer	1	-		tibia (diaph.)	-	-	-
Gen Surface	white-tail deer	1	-		metapodial	-	-	-
Gen Surface	white-tail deer	1	-		1st phalange	-	-	-
Gen Surface	white-tail deer	1	R	-	tarsal	-	-	-
Gen Surface	white-tail deer	1	L	-	tarsal	-	-	-
Gen Surface	white-tail deer	1	R	-	astragalus	-	1	-
Gen Surface	white-tail deer	1	L	-	astragalus	-	-	-
Gen Surface	fish	5	-	-	ribs	-	-	-
Gen Surface	fish	1	-	-	unidentified fragment	-	-	-
Gen Surface	indeter mammal	1	-	body	vertebra	-	-	-
Gen Surface	indeter mammal	2	-	-	rib fragments	-	1	-
Gen Surface	indeter mammal	2	-	prox	rib fragment	-	-	-
Gen Surface	indeter mammal	1	-	-	phalange	-	-	-
Gen Surface	indeter mammal	26	-	-	diaph. fragments	-	-	-
Gen Surface	indeter mammal	1	-	-	cervical vertebra	-	-	-
Gen Surface	indeter mammal	1	-	-	thoracic vertebra	-	-	-
Gen Surface	mammal	81	-	-	unidentified fragments	1	-	-
Gen Surface	rodentia	1	-	-	pelvis fragment	-	-	-
Gen Surface	indeter mammal	1	-	-	unidentified fragment	-	-	-
Gen Surface	squirrel	2	L	-	humerus	-	-	-
Gen Surface	squirrel	1	R	-	pelvis (no pubic area)	-	-	-
Gen Surface	wild turkey	1	L	-	humerus	-	-	-
Gen Surface	turtle	2	-	-	neural fragments	-	-	-
Gen Surface	turtle	3	-	-	peripheral fragments	-	-	-
Gen Surface	turtle	4	-	-	plastron fragments	-	-	-
Gen Surface	turtle	19	-	-	carapace fragments	-	-	-
Gen Surface	unidentified	6	-	-	fragments	-	-	-
Subtotal		*191*				*2*	*3*	-
Str 1	indeter mammal	1	L	-	unidentified fragment	-	-	-
Str 1	unidentified	1	-	-	fragment	-	-	-
Str 1, Hearth	indeter mammal	1	-	-	unidentified fragment	1	-	-
Str 1, Fea 122	box turtle	1	L	-	humerus	-	-	-
Str 1, Fea 122	mammal	2	-	-	unidentified fragments	-	-	-
Str 1, Fea 122	unidentified	4	-	-	fragments	-	-	-
Str 1, Fea 150	carnivore	1	-	-	canine	-	-	-
Str 1, Fea 150	cottontail rabbit	1	R	dist	radius	-	-	-
Str 1, Fea 150	cricetidae	1	-	-	incisor	-	-	-
Str 1, Fea 150	fish	2	-	-	vertebra	-	-	-
Str 1, Fea 150	fish	8	-	-	ribs	-	-	-
Str 1, Fea 150	mammal	7	-	-	unidentified fragments	-	-	-
Str 1, Fea 150	unidentified	6	-	-	fragments	-	-	-
Subtotal		*36*				*1*	-	-
Str 2, Floor	white-tail deer	1	-	-	antler	-	-	-
Str 2, BB Area	beaver	1	-	-	tooth	-	-	-
Str 2, BB Area	black bear	1	-	-	metacarpal I	1	-	-
Str 2, BB Area	black bear	1	-	-	phalange	1	-	-
Str 2, BB Area	white-tail deer	1	-	-	radius/ulna (in matrix)	-	-	-

Provenance	Species	Count	Side	End	Element	Burned	Cut	Modified
Str 2, BB Area	white-tail deer	1	-	dist	metapodial	1	-	-
Str 2, BB Area	white-tail deer	2	-	-	astragalus fragments	2	-	-
Str 2, BB Area	mammal	34	-	-	unidentified fragments	26	-	-
Str 2, BB Area	turtle	16	-	-	c/p fragment	16	-	-
Str 2, BB Area	wild turkey	1	-	prox	humerus	-	1	-
Str 2, BB Area	unidentified	70	-	-	fragments	-	-	-
Str 2, Brn Cl Zn	mammal	59	-	-	unidentified fragments	59	-	-
Subtotal		*188*				*106*	*1*	-
Str 3, Hearth	mammal	1	-	-	unidentified fragment	1	-	-
Str 3, Fea 530	unidentified	2	-	-	fragments	-	-	-
Str 3, Fea 555	mammal	1	-	-	unidentified fragment	-	-	-
Str 3, Fea 555	squirrel	1	L	-	calcaneus	-	-	-
Subtotal		*5*				*1*	-	-
Str 38, Hearth	mammal	1	-	-	unidentified fragment	-	-	-
Str 38, Hearth	reptile	2	-	-	vertebra	2	-	-
Subtotal		*3*				*2*	-	-
Str 45, Fea 2269	squirrel	1	-	-	incisor	-	-	-
Subtotal		*1*				-	-	-
Str 57	indeter mammal	3	-	-	unidentified fragments	-	-	-
Subtotal		*3*				-	-	-
Feature 6	fish	2	-	-	unidentified fragments	-	-	-
Feature 6	fish	2	-	-	vertebra	-	-	-
Feature 6	indeter mammal	1	-	-	rib fragment	-	-	-
Feature 6	indeter mammal	1	-	-	unidentified fragment	1	-	-
Feature 6	indeter mammal	1	-	-	metapodial	-	-	-
Feature 6	turtle	1	-	-	neural fragment	-	-	-
Feature 6	turtle	27	-	-	c/p fragments	11	-	-
Feature 6	turtle	1	-	-	peripheral fragment	-	-	-
Feature 6	unidentified	20	-	-	fragments	-	-	-
Subtotal		*56*				*12*	-	-
Feature 8	fish	1	-	-	unidentified fragment	-	-	-
Feature 8	unidentified	4	-	-	fragments	-	-	-
Subtotal		*5*				-	-	-
Feature 9	canidae	1	L	-	m1 (upper)	-	-	-
Feature 9	canis sp.	1	L	-	tibia	-	-	-
Feature 9	canis sp.	1	L	-	calcaneus	-	-	-
Feature 9	white-tail deer	1	-	-	1st phalange	-	1	-
Feature 9	white-tail deer	1	-	-	humerus	-	-	-
Feature 9	white-tail deer	2	L	-	femurs	-	-	-
Feature 9	white-tail deer	1	R	prox	femur	-	1	-
Feature 9	indeter mammal	63	-	-	unidentified fragments	-	-	-
Feature 9	indeter mammal	2	-	-	unidentified fragments	-	-	-
Feature 9	turtle	1	-	-	peripheral fragment	-	-	-
Feature 9	turtle	24	-	-	plastron fragments	-	-	-
Subtotal		*98*				-	*2*	-
Feature 10	bird	1	L	-	tibiotarsus	-	-	-
Feature 10	bird	1	-	-	unidentified fragment	-	-	-
Feature 10	cricetidae	1	R	dist	humerus	-	-	-
Feature 10	cricetidae	1	R	prox	femur	-	-	-
Feature 10	white-tail deer	1	L	-	acetabulum	-	-	-
Feature 10	drumfish	3	-	-	pharyngeal plate fragments	-	-	-
Feature 10	fish	1	-	-	cleithrum	-	-	-
Feature 10	indeter mammal	36	-	-	unidentified fragments	-	-	-
Feature 10	indeter mammal	1	-	-	rib fragment	-	-	-
Feature 10	indeter mammal	1	-	prox	radius	-	-	-
Feature 10	indeter mammal	3	-	-	unidentified fragments	3	-	-
Feature 10	mammal	1	-	-	antler? (awl)	-	-	1
Feature 10	mammal	3	-	-	unidentified fragments	-	-	-
Feature 10	squirrel	1	-	-	incisor	-	-	-
Feature 10	squirrel	1	L	dist	humerus	-	-	-

Provenance	Species	Count	Side	End	Element	Burned	Cut	Modified
Feature 10	squirrel	1	L	prox	radius	-	-	-
Feature 10	wild turkey	1	L	-	tmt	1	-	-
Feature 10	wild turkey	1	R	-	tibiotarsus	-	-	-
Feature 10	unidentified	9	-	-	fragments	-	-	-
Subtotal		*68*				*4*	-	*1*
Feature 15	white-tail deer	1	L	dist	humerus	-	1	-
Feature 15	mammal	6	-	-	unidentified fragments	-	-	-
Feature 15	unidentified	2	-	-	fragments	-	-	-
Subtotal		*9*				-	*1*	-
Feature 16	white-tail deer	1	-		antler fragment	-	-	-
Feature 16	indeter mammal	12	-	-	unidentified fragments	-	-	-
Feature 16	unidentified	1	-	-	flat, both sides smooth	-	-	1
Subtotal		*14*				-	-	*1*
Feature 17	mammal	1	-	-	unidentified fragment	-	-	-
Feature 17	box turtle	1	-	-	plastron	-	-	-
Feature 17	turtle	1	-	-	c/p fragment	-	-	-
Subtotal		*3*				-	-	-
Feature 18	mammal	12	-	-	unidentified fragments	-	-	-
Subtotal		*12*				-	-	-
Feature 18A	indeter mammal	21	-	-	unidentified fragments	-	-	-
Subtotal		*21*				-	-	-
Feature 18B	white-tail deer	1	-	-	M1	-	-	-
Feature 18B	white-tail deer	1	-	-	M2	-	-	-
Feature 18B	white-tail deer	1	-	-	M3	-	-	-
Feature 18B	turtle	1	-	-	carapace fragment	-	-	-
Feature 18B	mammal	27	-	-	unidentified fragments	-	-	-
Subtotal		*31*				-	-	-
Feature 18C	turtle	1	-	-	c/p fragment	-	-	-
Subtotal		*1*				-	-	-
Feature 18D	wild turkey	1	L	-	tibiotarsus	-	1	-
Feature 18D	box turtle	10	-	-	plastron fragments	-	-	-
Feature 18D	mammal	4	-	-	unidentified fragments	-	-	-
Subtotal		*15*				-	*1*	-
Feature 18E	bird	2	-	-	unidentified fragments	-	-	-
Feature 18E	white-tail deer	1	-	-	2nd phalange	-	-	-
Feature 18E	white-tail deer	1	R	-	radius	-	-	-
Feature 18E	indeter mammal	3	-	-	unidentified fragments	-	-	-
Feature 18B	mammal	25	-	-	unidentified fragments	-	-	-
Feature 18E	squirrel	1	L	-	calcaneus	-	-	-
Feature 18E	turtle	1	-	-	carapace fragment	-	-	-
Feature 18E	turtle	2	-	-	peripheral fragments	-	-	-
Subtotal		*36*				-	-	-
Feature 20	white-tail deer	1	R	-	acetabulum	-	-	-
Feature 20	mammal	2	-	-	unidentified fragments	-	-	-
Subtotal		*3*				-	-	-
Feature 21	unidentified	1	-	-	fragment	-	-	-
Subtotal		*1*				-	-	-
Feature 22	bird	1	-	-	unidentified fragment	-	-	-
Feature 22	turtle	9	-	-	c/p fragments	-	-	-
Subtotal		*10*				-	-	-
Feature 23	white-tail deer	1	-	-	mandible (in matrix)	-	-	-
Feature 23	white-tail deer	1	R	prox	radius	-	1	-
Feature 23	white-tail deer	1	R	dist	tibia	-	-	-
Feature 23	white-tail deer	2	-	-	tarsal fragments	-	-	-
Feature 23	indeter mammal	1	-	-	scapula facet	-	-	-

Provenance	Species	Count	Side	End	Element	Burned	Cut	Modified
Feature 23	indeter mammal	21	-	-	unidentified fragments	-	-	-
Feature 23	wild turkey	1		-	tmt fragment	-	-	-
Subtotal		*28*				-	*1*	-
Feature 24	indeter mammal	1	-	-	unidentified fragment	-	-	-
Feature 24	turtle	11	-	-	carapace fragments	-	-	-
Subtotal		*12*				-	-	-
Feature 25	unidentified	3	-	-	fragments	-	-	-
Subtotal		*3*				-	-	-
Feature 26	bird	1	-	-	unidentified fragment	-	-	-
Feature 26	colubridae	1	-	-	vertebra	-	-	-
Feature 26	indeter mammal	1	-		cervical vertebra	-	-	-
Feature 26	indeter mammal	3	-		unidentified fragments	-	-	-
Subtotal		*6*				-	-	-
Feature 33	bird	2	-	-	unidentified fragments	-	-	-
Feature 33	indeter mammal	8	-		unidentified fragments	-	-	-
Feature 33	mammal	2	-		unidentified fragments	-	-	-
Subtotal		*12*				-	-	-
Feature 36	bird	1	-	-	vertebra	-	-	-
Feature 36	mammal	75	-		unidentified fragments	-	-	-
Subtotal		*86*				-	-	-
Feature 37	white-tail deer	1	-	-	1st phalange	-	1	-
Feature 37	indeter mammal	3	-		unidentified fragments	1	-	-
Subtotal		*4*				*1*	*1*	-
Feature 38	white-tail deer	1	L	-	frontal w/ antler pedicle	-	-	-
Feature 38	white-tail deer	100	-	-	cranial fragments	-	-	-
Feature 38	box turtle	4	-	-	plastron fragments	-	-	-
Feature 38	box turtle	14	-	-	peripheral fragments	-	-	-
Feature 38	turtle	45	-	-	c/p fragments	-	-	-
Subtotal		*164*				-	-	-
Feature 39	box turtle	9	-	-	plastron fragments	-	-	-
Feature 39	mammal	2	-		unidentified fragments	-	-	-
Subtotal		*11*				-	-	-
Feature 49	bird	1	-	-	unidentified fragment	-	-	-
Feature 49	squirrel	1	-	-	incisor (upper)	-	-	-
Feature 49	turtle	1	-	-	c/p fragment	-	-	-
Subtotal		*3*				-	-	-
Feature 53	white-tail deer	1	L	dist	femur	-	-	-
Feature 53	indeter mammal	1	-	-	vertebra centrum	-	-	-
Feature 53	mammal	5	-	-	unidentified fragments	-	-	-
Subtotal		*7*				-	-	-
Feature 54	drumfish	1	L	-	pharyngeal plate	-	-	-
Feature 54	turtle	32	-	-	c/p fragments	-	-	-
Feature 54	turtle	2	-	-	neural fragments	-	-	-
Feature 54	unidentified	44	-	-	fragments	-	-	-
Subtotal		*79*				-	-	-
Feature 55	white-tail deer	1	-	-	1st phalange	-	-	-
Feature 55	turtle	3	-	-	c/p fragments	-	-	-
Feature 55	indeter mammal	6	-	prox	scapula fragments	6	-	-
Feature 55	mammal	8	-	-	unidentified fragments	-	-	-
Subtotal		*18*				*6*	-	-
Feature 57	bird	2	-	-	unidentified fragments	-	-	-
Feature 57	box turtle	2	-	-	costal fragments	-	-	-
Feature 57	box turtle	24	-	-	carapace fragments	-	-	-
Feature 57	box turtle	5	L	-	peripheral fragments (all join)	-	-	-
Feature 57	white-tail deer	1	-	-	tooth fragment	-	-	-

Provenance	Species	Count	Side	End	Element	Burned	Cut	Modified
Feature 57	white-tail deer	1	L	prox	radius	-	-	-
Feature 57	indeter mammal	1	-	-	lumbar vertebra	-	-	-
Feature 57	indeter mammal	6	-	-	unidentified fragments	-	-	-
Feature 57	indeter mammal	1	-	-	1st phalange	-	-	-
Feature 57	mammal	68	-	-	unidentified fragments	-	-	-
Feature 57	muridae	1	L	prox	femur	-	-	-
Feature 57	squirrel	1	-	-	incisor	-	-	-
Feature 57	squirrel	1	L	dist	humerus	-	-	-
Feature 57	squirrel	1	L	prox	femur	-	-	-
Feature 57	unidentified	3	-	-	fragments	-	-	-
Subtotal		*118*				-	-	-
Feature 58	white-tail deer	1	R	-	calcaneus	-	-	-
Feature 58	indeter mammal	1	-	body	cervical vertebra	-	-	-
Feature 58	indeter mammal	4	-	-	vertebra fragments	-	-	-
Feature 58	mammal	4	-	-	unidentified fragments	-	-	-
Feature 58	raccoon	1	R	-	maxilla (all teeth)	-	-	-
Feature 58	turtle	1	-	-	peripheral fragment	-	-	-
Feature 58	turtle	6	-	-	carapace fragments	-	-	-
Feature 58	turtle	1	R	-	plastron fragment	-	-	-
Subtotal		*19*				-	-	-
Feature 59	cricetidae	1	L	prox	femur	-	-	-
Feature 59	white-tail deer	1	R	-	calcaneus	-	-	-
Feature 59	indeter mammal	5	-	-	fragments	-	-	-
Feature 59	mammal	12	-	-	unidentified fragments	-	-	-
Subtotal		*19*				-	-	-
Feature 60	mammal	37	-	-	unidentified fragments	7	-	-
Feature 60	turtle	8	-	-	c/p fragments	-	-	-
Feature 60	unidentified	34	-	-	fragments	-	-	-
Subtotal		*79*				*7*	-	-
Feature 64	unidentified	?	-	-	bone in matrix	-	-	-
Feature 66	mammal	5	-	-	unidentified fragments	-	-	-
Subtotal		*5*				-	-	-
Feature 70	indeter mammal	1	-	-	sesamoid	-	-	-
Feature 70	indeter mammal	3	-	-	pelvis fragment	-	-	-
Feature 70	indeter mammal	1	-	-	unidentified fragment	-	-	-
Feature 70	mammal	9	-	-	unidentified fragments	-	-	-
Subtotal		*14*				-	-	-
Feature 71	white-tail deer	1	R	-	radial carpal	-	-	-
Subtotal		*1*				-	-	-
Feature 72	mammal	5	-	-	unidentified fragments	-	-	-
Feature 72	unidentified	2	-	-	fragments	-	-	-
Subtotal		*7*				-	-	-
Feature 74	indeter mammal	4	-	-	unidentified fragment	-	-	-
Feature 74	mammal	9	-	-	unidentified fragments	1	-	-
Feature 74	turtle	1	-	-	peripheral fragment	-	-	-
Subtotal		*14*				*1*	-	-
Feature 75	bird	7	-	-	unidentified fragments	-	-	-
Feature 75	white-tail deer	1	R	-	petrous temporal	-	-	-
Feature 75	white-tail deer	1	L	-	petrous temporal	-	-	-
Feature 75	white-tail deer	1	-	-	tooth fragment	-	-	-
Feature 75	white-tail deer	1	R	dist	tibia	-	-	-
Feature 75	white-tail deer	1	R	-	calcaneus	-	-	-
Feature 75	fish	2	-	-	ribs	-	-	-
Feature 75	indeter mammal	7	-	-	unidentified fragments	-	-	-
Feature 75	indeter mammal	1	-	-	vertebra	-	-	-
Feature 75	indeter mammal	1	-	-	unidentified fragment	-	-	-
Feature 75	mammal	84	-	-	unidentified fragments	-	-	-
Feature 75	squirrel	1	L	prox	humerus	-	-	-

Provenance	Species	Count	Side	End	Element	Burned	Cut	Modified
Feature 75	wild turkey	1	L	-	cmc	-	-	-
Feature 75	turtle	4	-	-	carapace fragments	-	-	-
Subtotal		*113*				-	-	-
Feature 76	white-tail deer	1	L	-	mandible	-	-	-
Feature 76	white-tail deer	1	L	-	patella	-	-	-
Feature 76	indeter mammal	1	-	-	thoracic vertebra	-	-	-
Feature 76	indeter mammal	3	-	-	rib fragments	-	-	-
Feature 76	indeter mammal	1	-	-	unidentified fragment	-	-	-
Feature 76	turtle	1	-	-	peripheral fragment	-	-	-
Subtotal		*8*				-	-	-
Feature 77	turtle	2	-	-	peripheral fragments	-	-	-
Feature 77	mammal	3	-	-	unidentified fragments	-	-	-
Subtotal		*5*				-	-	-
Feature 95	box turtle	1	-	-	plastron	-	-	-
Feature 95	box turtle	1	L	-	plastron-axial notch	-	-	-
Feature 95	white-tail deer	15	-	-	antler fragments	-	-	-
Feature 95	indeter mammal	1	-	-	thoracic vertebra	-	-	-
Feature 95	indeter mammal	1	-	-	vertebra	-	-	-
Feature 95	indeter mammal	1	-	-	2nd phalange	-	-	-
Feature 95	mammal	1	-	-	unidentified fragment	-	-	-
Subtotal		*21*				-	-	-
Feature 96	white-tail deer	1	-	-	occipital fragment	-	-	-
Feature 96	white-tail deer	1	R	-	frontal	-	-	-
Feature 96	white-tail deer	3	-	-	cranial fragments	-	-	-
Feature 96	white-tail deer	2	-	-	molar fragments	-	-	-
Subtotal		*7*				-	-	-
Feature 107	indeter mammal	8	-	-	unidentified fragments	-	-	-
Subtotal		*8*				-	-	-
Feature 108	mammal	48	-	-	unidentified fragments	-	-	-
Subtotal		*48*				-	-	-
Burial 3a	canis sp.	1	L	-	premaxilla	-	-	-
Burial 3a	indeter mammal	1	-	-	unidentified fragment	-	-	-
Burial 3a	squirrel	1	-	-	incisor	-	-	-
Burial 3a	squirrel	1	L	dist	tibia	-	-	-
Burial 3a	box turtle	1	L	-	humerus	-	-	-
Subtotal		*5*				-	-	-
Burial 6	common mole	1	L	-	humerus	-	-	-
Subtotal		*1*				-	-	-
Burial 12	bird	1	-	-	phalange	-	-	-
Burial 12	fish	1	-	-	vertebra	-	-	-
Burial 12	muskrat	1	R	prox	femur	-	-	-
Burial 12	wild turkey	1	L	dist	cmc	-	-	-
Burial 12	unidentified	1	-	-	fragment	-	-	-
Subtotal		*5*				-	-	-
Burial 14	bird	1	-	-	unidentified fragment	-	-	-
Burial 14	colubridae	2	-	-	vertebra	-	-	-
Burial 14	cottontail rabbit	1	R	-	pelvis	-	-	-
Burial 14	cottontail rabbit	1	R	dist	femur	-	-	-
Burial 14	cricetidae	1	-	-	incisor	-	-	-
Burial 14	cricetidae	1	R	prox	femur	-	-	-
Burial 14	mammal	2	-	-	unidentified	2	-	-
Burial 14	squirrel	1	R	-	ulna	-	-	-
Burial 14	unidentified	1	-	-	fragment	-	-	-
Subtotal		*11*				*2*	-	-
Burial 15	wild turkey	1	R	prox	tmt	1	-	-
Subtotal		*1*				*1*	-	-

Provenance	Species	Count	Side	End	Element	Burned	Cut	Modified
Burial 37	turtle	4	-	-	carapace fragments	-	-	-
Burial 37	turtle	2	-	-	peripheral fragments	-	-	-
Subtotal		*6*				-	-	-
Burial 38	Canis sp.	1	-	-	m3 (lower)	-	-	-
Subtotal		*1*				-	-	-
Burial 42	indeter mammal	1	-	-	unidentified fragment	-	-	-
Subtotal		*1*				-	-	-
Burial 50	indeter mammal	1	-	-	tarsal	-	-	-
Burial 50	wild turkey	1	R	-	femur	-	-	-
Subtotal		*2*				-	-	-
Burial 57	box turtle	1	L	prox	humerus	-	-	-
Subtotal		*1*				-	-	-
Burial 58	indeter mammal	1	-	-	vertebra	-	-	-
Subtotal		*1*				-	-	-
Burial 61	cricetidae	1	L	-	humerus	-	-	-
Burial 61	cricetidae	1	L	-	pelvis	-	-	-
Burial 61	cricetidae	1	L	-	femur	-	-	-
Burial 61	cricetidae	1	L	-	tibia	-	-	-
Subtotal		*4*				-	-	-
Burial 64	white-tail deer	1	-	-	1st phalange	-	-	-
Burial 64	white-tail deer	1	-	-	tarsal	-	-	-
Subtotal		*2*				-	-	-
Burial 66	cervidae	1	R	prox	metatarsal	-	-	-
Burial 66	colubridae	3	-	-	vertebra	-	-	-
Burial 66	white-tail deer	1	-	-	mandible	-	-	-
Burial 66	white-tail deer	2	-	-	phalanx	-	-	-
Burial 66	white-tail deer	1	-	-	1st phalange	-	-	-
Burial 66	white-tail deer	3	L	prox	metacarpal	-	-	-
Burial 66	white-tail deer	1	R	prox	metacarpal	-	-	-
Burial 66	white-tail deer	1	L	-	acetabulum	-	-	-
Burial 66	white-tail deer	1	L	dist	humerus	-	-	-
Burial 66	white-tail deer	1	R	dist	humerus	-	-	-
Burial 66	white-tail deer	1	R	prox	ulna	-	-	-
Burial 66	white-tail deer	1	R	prox	radius	-	1	-
Burial 66	white-tail deer	1	-	-	astragalus	-	-	-
Burial 66	white-tail deer	1	L	-	calcaneus	-	-	-
Burial 66	white-tail deer	1	-	-	unidentified fragment	-	-	-
Burial 66	indeter mammal	11	-	-	unidentified fragments	-	-	-
Burial 66	striped skunk	3	-	-	humerus	-	-	-
Burial 66	striped skunk	3	-	-	ulna	-	-	-
Burial 66	striped skunk	3	3	-	femur	-	-	-
Burial 66	striped skunk	1	-	-	rib fragment	-	-	-
Burial 66	striped skunk	1	L	-	tibia	-	-	-
Burial 66	wild turkey	1	L	dist	tbt	-	-	-
Subtotal		*43*				-	*1*	-
Burial 71	canis sp.	1	-	-	canine	-	-	-
Burial 71	cricetidae	1	L	-	femur	-	-	-
Burial 71	turtle	1	-	-	coracoid	-	-	-
Burial 71	indeter mammal	1	-	-	unidentified fragments	-	-	-
Subtotal		*4*				-	-	-
Burial 72	mammal	2	-	-	unidentified fragments	-	-	-
Subtotal		*2*				-	-	-
Burial 75	bird	2	-	-	phalanges	-	-	-
Subtotal		*2*				-	-	-

Provenance	Species	Count	Side	End	Element	Burned	Cut	Modified
Burial 76	cottontail rabbit	1	R	prox	femur	-	-	-
Subtotal		*1*				-	-	-
Burial 76, pst A	unidentified	21	-	-	fragments	-	-	-
Subtotal		*21*				-	-	-
Burial 78	bird	1	-	-	rib	-	-	-
Burial 78	cottontail rabbit	1	-	-	axis	-	-	-
Burial 76	cottontail rabbit	1	R	prox	radius	-	-	-
Burial 78	cottontail rabbit	1	L	-	tibia	-	-	-
Burial 78	cottontail rabbit	1	L	-	femur	-	-	-
Burial 78	white-tail deer	1	L	prox	radius	-	-	-
Burial 78	indeter mammal	1	-	-	phalange	-	-	-
Burial 78	indeter mammal	1	-	-	metapodial	-	-	-
Burial 78	indeter mammal	1	-	-	vertebra	-	-	-
Burial 78	indeter mammal	6	-	-	unidentified fragments	-	-	-
Burial 78	indeter mammal	26	-	-	unidentified fragments	-	-	-
Subtotal		*41*				-	-	-
Burial 79	woodchuck	1	-	-	incisor	-	-	-
Subtotal		*1*				-	-	-
Burial 83	cricetidae	1	L	-	ulna	-	-	-
Burial 83	cricetidae	1	L	-	illium	-	-	-
Subtotal		*2*				-	-	-
Burial 85	bird	1	L	-	ulna	-	-	-
Burial 85	bird	1	R	-	ulna	-	-	-
Burial 85	bird	1	L	dist	femur	-	-	-
Burial 85	bird	1	L	-	femur	-	-	-
Burial 85	bird	2	R	prox	femur	-	-	-
Burial 85	bird	1	L	-	coracoid	-	-	-
Burial 85	bird	11	-	-	unidentified fragments	-	-	-
Subtotal		*18*				-	-	-
TOTALS		1905				146	11	2

APPENDIX E

DR. W. H. JARMAN CORRESPONDENCE TO F. W. PUTNAM JARMAN'S FARM, 1881-1883

Transcribed by Michael C. Moore

The following is a transcription of four letters and one postcard written by Dr. Jarman to Frederic Ward Putnam between December 1881 and January 1883. These documents provide important background information about the 1882 archaeological investigations conducted by Putnam and George Woods at the Jarman Farm site in Brentwood, Williamson County, Tennessee.

These letters and postcard are accessioned as Records of the Peabody Museum, Director's Office Correspondence at the Harvard University Archives (UAV.677.38). In these transcripts, possible interpretations of hard to read words are indicated in italicized text and brackets. Italicized question marks and brackets note words not interpreted. The number of question marks generally attempts to simulate the length of the word or words.

Letter of December 5th, 1881
Harvard University Archives (UAV.677.38)

Brentwood Tenn.
Dec 5th 1881

Prof. F. W. Putnam
Salem, Mass.

Dear Sir,
Some two years
since I came in possession by
purchase of a tract of land
in Williamson Co. Tenn, on
Little Harpeth River, 12 miles south of
Nashville, and soon found there
was a burying ground of some
race who formerly inhabited the
country. In opening some of
these graves I have found some
beautiful pots with unique de-
signs on some of them, as allso
a wind instrument of a bone with
beautiful and well made key
note holes, rocks used in their

avocation etc. Some of these
I have donated to the Tenn
Historical Society, of which I am
a member, while others I have
in my possession. I have
formed certain opinions of these
people from their mode of
burial and articles in graves
etc. and speaking of it to the
Editor of American, a few
days since he counceled me
to write to you to get information
already collected, name and
drawing of stones, pots & cups.
If you see proper to send me
information on this matter, &
I find I can throw additional
light on it, I will be very glad
to do so to you.

Yours truly
W. H. Jarman
My P. O. is Brentwood
Tenn

Letter of December 14th, 1881
Harvard University Archives (UAV.677.38)

Brentwood Tenn.
Dec 14th 1881

Dear Sir.
Yours of 10 *{last received}*
I have no doubt but I have lost
the opportunity of obtaining many
relics by not knowing the manner
of opening the stone graves on my
farm. I attached no importance
to the bones, and only saved one
inferior maxillary from a grave
of a large man of more than six
feet in length. It was attractive
for its massiveness and preser-
vation of bone and teeth. It is
in the State Historical Societys col-
lections. In any future open-
ing of graves I will be more
careful & employ better labor.

I fully appreciate the necessity

of a proper study of our aborig-
nal people by every means in
our power, and as much as I am
able, will assist you. Since
having obtained a few articles
of pottery etc. I have heard of
several burial places in this
county, said to be extensive,
but I haven't seen them.
As you request it, I will give
what time I can spare from
my practice and other business
obligations, charging nothing for
my own services unless I incur
actual money expense, but the
careful labor of men such as you
speak about, will cost from $1.00
to $1.50 per day, and if you tell me
to go ahead, will commence on
my own farm and extend my
operations as after examination.
I may think it profitable.
Whatever I do will be done as laid

down in your formulas and articles found, bones etc. will be forwarded to you. You need not send boxes until requested as I will have to look about to see what will be needed. There is a mound in my neighborhood, but the lady on whose farm it is, has forbid its interruption. I will see what can be done with it.

Has it ever occurred to you that the dead were buried either within or just without their tenements? I think this can be demonstrated to have been the case on my farm.

When you make your expected visit to Tenn. it will will give me much pleasure to see you, and give you the assistance I am able in your intended work, and in the mean time, if there is any point you are studying to have demonstrated, let me know and it will be

especially studied by me.

After hearing from you again, I will begin my operation, as my business will permit.

Thanks for the vol. and reprint.

Very respectfully

W. H. Jarman

Letter of February 28th, 1882
Harvard University Archives (UAV.677.38)

Page 1 (of 2)

Brentwood, Tenn.
Febr 28th 1882

Mr. F. W. Putnam,

Dear Sir,
I wrote to
George Woods as soon as I received
your letter and inclose you
his reply. He has not put
in his appearance and fear
he will not. The weather
since the first of the year has
been so wet that little could
have been done, but the past
week has been more favorable
and if Woods had been on hand
would have employed him.
The people of my neighborhood
are either farmers or laborers
and with the advent of spring
will be very busy on the farm.

Page 2 (of 2)

I wish to see Woods manners
of making search before
employing others, and the
place on my farm that offers
the best field is cultivated
in garden and is now being
prepared for seed.

My time is so much oc-
cupied that I fear I can
give you little assistance
unless I had a reliable and
moderately inteligent white
man to attend laborers.

If Woods come, I will give
him employment to learn his
mode, pay bill, and send
receipt & findings to you.

Yours truly

W. H. Jarman

Postcard of March 23rd, 1882
Harvard University Archives (UAV.677.38)

Brentwood Tenn March 23rd

Dear Sir. Nothing yet of Woods. I have
quite a lot of surface finds that I think
will be of service to you. I will keep them
till you arrive. I think it would interest
you & it may *{??}* also profit you to give my
place a thorough look before your work
goes to press.

Respectfully
W. H. Jarman

Letter of January 12th, 1883
Harvard University Archives (UAV.677.38)

Brentwood Tenn.
Jan 12th 1883

Prof F. W. Putnam,

Dear Sir,
Please accept
my thanks for report of
Museum as well as for the
Lectures as published in
Transcript.

George Woods has
been working on my
place, but the weather
is so severe as to put a
stop to it for the present.
His finds are stored with
me.

Mrs. Jarman joins in
kind remembrance to yourself
& Mrs. P.

Yours truly

W. H. Jarman

APPENDIX F

GEORGE WOODS CORRESPONDENCE

Transcribed by Michael C. Moore and Stephen T. Rogers

These four letters (to Frederick Ward Putnam) and one postcard (to Dr. William H. Jarman) from George Woods are accessioned in Records of the Peabody Museum, Director's Office Correspondence at the Harvard University Archives (UAV.677.38).

George Woods had near illegible handwriting and more often than not spelled phonetically. To the unintended benefit of future researchers, however, he often had someone else pen his personal correspondence. Words in these transcripts that could not be interpreted are indicated in italicized text and by brackets enclosing question marks or possible interpretations with question marks. The number of question marks generally attempts to simulate the length of the untranscribed word or words.

Letter of June 20, 1881
George Woods to F. W. Putnam
Harvard University Archives (UAV.677.38)

Page 1 (of 2)

Nashville June 20th 1881

Prof P. F. Putnam
Peabody Museum
Boston Mass

Dear Sir
Have you any-one in the
Historical Department of Cumberland
Valey or State of Tenn. to fill the
place of Mr. E. Curtis. If so
would be pleased to know who he is
so I can apply to him for a
place you know Brother Joe and
my self was with Mr. Curtis about
two years. The last trip was Ark
from which place Brother Joe & my self
sent you the 9 pices of potery. With my
experence, I am confident that
I can do you good service

Page 2 (of 2)

{on} the gentleman that is appointed
by you. If you have not all-
ready selected some one –
would be pleased to give you
a gentlemans name that I think
would give entire satisfaction
If he would undertake the
Business. Would be pleased
to hear from you at your
earliest convinence

Very Respectfully Yours
George Woods Col

Address care of
J. J. Crawford

Postcard of February 13, 1882
George Woods to W. H. Jarman
Harvard University Archives (UAV.677.38)

Nashville Feb 13th 1882

Dear sir
Yours of the 6th came to hand
Friday and have delayed writing for
the reason I could not find Mr. Crawford
It is not convenient for me to come
now. But will come as soon as I
can. Would like to have the job
if we can make things satisfactory
to both parties. If you come to the City
you can find me on the Franklin Pike
near John Pots opposite Fort Negly.
Respectfully yours
George Woods

Letter of April 15, 1883
George Woods to F. W. Putnam
Harvard University Archives (UAV.677.38)

Page 1 (of 4)

Nashville
Tennessee April 15th 83
Mr. F. W. Putnam
{sai?} i seet my self
to say to you that
i have not bin so
that I coud see
how to wright to you
I have bin sick
every sinc
the 27 day of Dec
i thought that i
wood be able to
start in tha fall
whin I written to you
the last letter
an the
on the 3 day of
martch i wint
in *{too??}* the town

Page 2 (of 4)

call witch has
cass me grat trobul
six weeks has pass
and i have not bin
aball to see how to wire
to you i have sent
you what things
that i had got but
i knod no one to
that I coud *{trust}* &
pak them saft enough
enough to reatch
you saft i now
that you think *{bad}*
of me for not
sending what i
had but i will say
if you coud have
seen me 3 weeks
ago you wood said

I coud not
lift *{any}* *{loads}*
but i am about to
get up again and
i wood lik to see
you *{???}* match I
have found 3 mound
on a bluff in *{s?ffi?}*
with *{????}* so that I
coud not send
everything to
you before now
you asked not
to think that I
{????} for got my
{?????} out as soon as
can get my *{strength}*
i will start thin
to the field a
gain i try to
get some one to
go and get what i

have got and bring
thing to me
an coud not
get *{any}* one to
dou so an so
i hop to gestt set
it a home untill I
can get *well* to
go my self but I
will wate till I
get sound will be
four i go a gain
an i will cary
a man with me
the small pox is
bad in *{t???}* to
day *{Nashville}*
& Chatt cases
gest in site
so i will close
in hast 425 So
Sp St George Woods

Letter of April 23, 1883
George Woods to F. W. Putnam
Harvard University Archives (UAV.677.38)

Nashville Tenn April 23, 1883

Mr. F. W. Putnam
Dear Sir
Geo Wood, Col of this
City requisted me to write you
& say to you, that he had been
indisposed, and had not sent your
specimens as yet, but would do so
in the next 10 days or 2 weeks.

W J McMurray *???*
for Geo Wood Col

Letter of May 10, 1883
George Woods to F. W. Putnam
Harvard University Archives (UAV.677.38)

Page 1 (of 3)

Nashville Tennessee
May 10th 1883
Mr. F. W. Putnam sir its
with a *sad mind* that I
seat my self to
say to you that i have bin
scick ever cents
crismous so that i coud
doo nothing to *{work}*
any {*finds}* fit four the
museum but I am will
now an i hope that
you waunt think hard
of me four not being
thare sooner I got a
spring wagan last
sunday mornin and gon
to Dr Jarmon and got
thos spesmints that I
laft thir in Decbur
and i paid $2.25 for
the pickes and wagon

Page 2 (of 3)

i wire you a gain *to*
in next month
it will be a bout that
time be four i can
catch *{??}* with rents
four horse an *{?????}*
then I will go to
Mr Mc *{ma?borg}* farm
3 mils from franklin
Tennessee an all so to
Mr Bob Buck *{Honens}*
a bout the same distans
from franklin 3 miles
an then i will go a bout
12 miles from
Nashville on mill
crick if i coud have my
halt last wintar i wood
hav made a god *{????????}*
by bin sick i coud not
dou it so you may now
how it is I boxed 55 *{cent}*
{??????} {??} 12 *{??}* to you

i scant you a letter
in *{???????}* and it {*return}*
28 of last mounth to me
a gain it had bin to
Washington to the dod
{???????} office i stated *{??}*
in it that i was sick
then as *({soon}* as I got
will i wint and *{st??ted}*
{them} to you I
remain yours at
425 South Spruce St
Nashville Tennessee
George Woods

APPENDIX G

TENNESSEE NOTES
EXPLORATIONS BY F. W. PUTNAM

Transcribed by Michael C. Moore

This appendix contains a transcription of the field notes taken by Frederic Ward Putnam during his Brentwood, Tennessee explorations of May 26 through June 6, 1882. Putnam's work focused on two sites (Dr. Jarman's Farm and Hunt's Mound) located about one mile from each other. All but the last day of his time in Brentwood was spent digging at Dr. Jarman's Farm.

Putnam's field notes are preserved as Accession File 82-35E, Folder #2, Peabody Museum Collections Department, Harvard University. In these transcripts, words and segments that were not interpretable are indicated in italicized text and by brackets enclosing question marks or possible interpretations with question marks. The number of question marks generally attempts to simulate the length of the untranscribed word or words.

Notes of Explorations
of 81 Stone Graves
at Dr. W. H. Jarman's farm
Brentwood, Tenn.
by F. W. Putnam
May 26 to June 5, 1882

Graves of children
Two of which contained 2 skeletons each
Eleven of them contain 18 pots
Three contain stone discs
Eight " shell beads
One " pottery bead
Three " shell spoons
14 contain skeletons only

Graves of adults
11 had two adult skeletons each
Five had adult & child's skel each
One had 2 adults and 3 children
One 2 adults & 1 child
One had an extra skull
One had parts of a 2nd skeleton
One had a clavicle of a 2nd skel
Nine (including 4 of them with children)
had 10 pots
One with child had a shell totem
Three had 3 pottery beads
Two had shell spoons (one of those graves also had a child)
Three had shell beads
Two (of *then ???.* child) had 2 bone implements
One " " " " had a pipe
and large flint knife & red ocre
Two had a bone ornament
One had pieces of bark
One had arrowpoint in vert
34 contain skeletons only

81 graves opened in nine days = 44 days labor
of them 48 contain skeletons only
19 graves contain 27 pots

Dr. Jarman's 2 mi. from
Brentwood - between Franklin and
Wilson's Pikes.

Began May 26 with 3 men

A large natural rise on which
house is situated has been occupied
as a burial place, and apparently
abt 2 ft. has been added to nat surface
at least in some portions of east side
Began work on N. eastern side.

Grave 1. Enclosed with stones
& top stones were on surface -
Grave of child 2' 2" long
12" wide 10 " deep - The skeleton
nearly all decayed. all that
remained was saved – nothing
in grave - bottom not lined –
grave N. S. head to N. –
To the W. of this abt 6 inch was
grave 2. not enclosed. also
of child. skel. nearly all gone.
With this skel. were the following
1 pot (in fragments) saved. abt. in center
6 in. from this was a group of 3 or 4
pots, counting 1 very small bottle,
1 small cup shaped pot both
sitting with two discoidal stones
in a broken pot, also another
discoidal stone close to it

to the north of skull , & close
to it was another pot.
This grave was E. W. head to
W.
To the S abt 4 feet up hill
was another child's grave 3 enclosed
with rocks but top rocks which
were above surface had been
removed - only the remains
of skel. found.

Grave 4 abt 40 ft. to
west of others at foot of
western slope of hill.
Top stones 6 - 8 in below surface.
Grave well made of stones.
6' 3" long 16" wide, 12" deep.
Between this and grave 5, 18 inch
Graves 4 & 5 in same level
& laying side by side -
Head in grave 4 to E.
Head on left side & resting in
small pot. under jaw turned
nearly at right angles & on
left of head - Got out nearly
perfect skeleton.

Send acknowledgement to W. H. Callender,
Brentwood - for small ground axe &
polished celt. Ground axe & celt
of light stone.

May 27

Grave 5 –
6'. 6" long – 18" wide
12" deep

6 small stones on top

By the side of grave 4 on the east. Head to south - It is remarkable that while this grave was well covered and enclosed, & the bones in general in good condition the only portion of the skull that could be found was ½ of upper jaw - the rest of skull could not be traced at all -- a few fragments of pottery, 2 or 3 *{????????}* shells, & some bark (under left arm) were all that were found in grave –

Grave 6. - Enclosed with stones. Top stone grave edges above surface - Length 2' 6" - width 10" - depth 10" Child – head N. W Fragments of shell ornament, small fragments of pottery –

Grave 7.- Enclosed. Top stones gone - edges of side stones on surface.

Length 2' 10" – W – 14" D – 12" Side stones 20" deep in yellow clay 7 inches. Bottom lined with stones carefully laid. Not a sign of a skeleton or of anything in the grave –

Send ack to Mr. John F. Hill Brentwood - for pitted stone 2 flints

Grave 8 - May 27
Covered with 7 or 8 stones.
3 stones in order - just below surface.
Side stones 1 ft. in yellow
Clay - Stones 14" deep -
L 6' - W 18" - D 11"
A few fragments of pottery
probably of one vessel
near the centre of grave.
Skeleton in fair
condition, head to S.
Have skull & bones.

Grave 9 - May 27.
2 children - L. 3' W 9" - 12"
D 12" - stones on bottom -
Small round jar, charcoal
& frag of shell and pottery -

Grave 10 - May 27.
of child. L 2' 8" - W 12" D 8"
13" below surface. Well made
& covered - no stones in bottom
head S - Bones saved.

Grave 11. May 27.
6' 2" L - 17" W - 12" D.
Head south - adult
Nothing but skeleton in grave.
13 inches below surface.

Grave 12 May 27.
By the side grave 11,
18 inches from grave 11. Same
level - 12 in. below surface.
2' 11" L - 11" W –-11" D -
Head to south.
Beads of shell & 1 of pottery.

Grave 13 May 29
L 6' 2" W 16" - D 12
9" below suface well
covered in with stone - adult
Head to W. - The bones in this
grave much disturbed - The
shoulder blade was at foot
of grave - 1 tibia was with
its upper end back of skull

at head of grave, the other
tibia was crosswise over
pelvis & chest with foot
end towards & close to left
shoulder. Head on left
side & under jaw 6 inches
from it on right side of grave.

No stones at bottom.
Fragments of pottery & flint chips.

Grave 14 May 29.
1' below surface -
L 6' 5", W 1' 3" D 8"
3 side stones 4 top stones.
Head to W - Bottom of grave
lined with fragments of
pottery (all of which are
saved), nothing else in grave.
Skeleton in good condition
& saved - Skull with <u>all</u> the teeth.

Grave 15 May 29.
1' 3" below surface -
5' 10" long - 10" deep 1' 5" wide.
Head to east.
Nothing but skeleton &
round stone on chest.

Grave 16 May 29.
10" below surface.
6' 8" Long –-18" W, 11" D
Skeleton with dish at head.
Bottom lined with stone -

Grave 17 May 29
9" below surface
L 5' 5" W 1' 8" D
10" between this and grave 18.
Grave lined with thick
potsherds some of which
I saved on acct of their
large size - 200 potsherds
& 3 or 4 stones lining grave.
Nothing in grave
Skull decayed but saved
with bits of pottery.

Grave 19 May 29,
1' 5" below surface.
L 3' 10" W 1' 5" D 1'
Child - H. to S. West -
Bowl in corner of grave
near head. Jar in center
on same side of grave
with bowl.

Bottom
not lined

Grave 18 May 29.
3" below surface.
L. 5' 8" W 1' 4" D 1' 1"

(Graves 17 & 18 are up the hill
a little way from gr. 19 & 20
and the bottom was not much
below the tops of 19 & 20.)

Skeleton with head to W. and a
Skull at the opposite end of
grave on the feet bones of the
skeleton – (No bones belonging to
the 2nd skull in the grave)

Grave 20. May 29
10 in below surface - to the
S.W. of this was a small grave 1 ft long
1 ft. wide 2" lower down
what I have called 20½
This was 1' 4" long 1' W. 9" D
Bottom lined with pottery fragments.
In digging out this grave I found
that it extended under grave
20 the foot rock of the little
grave having been removed
& set further up in the grave.
Grave 20 being this built
in part over the little grave.
The little grave was lined
with sherds & under
were flat stones -
Saved jaw of child, arm bone
& 3 or 4 shell beads -

On cleaning out
grave 20 I find
that it is part of
the little grave -
& not a grave
built over that as
I thought - This grave
was arranged in this
way - Two rocks
were put
down the
grave cutting it in two.
They must have been placed
there as there was no chance
of their working down -
The skull & arms in the
small division and the
rest of skeleton in the
large.
The whole grave lined
with pottery & stones.

Saved shell beads, jaw,
arm bones & one tibia

Grave 22 May 30
11" below surface
6' 7" L - D. 1' - W 1' 7"
Nothing but skeleton
in grave - adult
Head to West
Tibia with united fracture

Grave 21. May 30
6 inches below surface
L 6' long, W 1' 6" D 1' 2"
Seven large top rocks & one
small one, two deep -
2 side rocks.
Nothing but skeleton
of an old person -

Grave 30 May 30
abt 20 ft. to E of 27 a little up the
hill. Head to East - adult
5 " below surface
L 5' 6" W 1' 3" D 11"
arrow found with neck vert. &
large clay bead - nearly full skeleton
found -

Grave 27 May 30
1’ 4” below surface
to top rocks - side rocks
4 inches in yellow clay -
grave 1’ deep - L. 6’ 3” long
W 1’ 3”
skeleton nothing else
Head to South.

Grave 28 May 30
Child’s grave - 3” below
surface 3’ 5” L. 10” W
7” Deep. With dish
at foot of grave -
Head to south east

Grave 26 May 30
Child - 12” below surface -
L 3’ 6” D 9” W 1’ 3”
grave was lined with pottery
on bottom
Small water bottle in centre of the grave
Head to W.

Grave 25 - May 30
6” below surface head to S.
L. - 3’ 3” W 1’ 2” D 7”
Child - nothing in grave but
skeleton -

Grave 23. May 30
Top rocks 6” below surface -
L 6’ 7” W 1’ 10” D 1’ 3’
adult skel. Head to W.
on back - arms extended by sides
as is usually the position.
Several large stones were
inside the grave pressing down
on the body -
Saved skull & few
long bones - Nothing in grave

Grave 24 May 30
6” below surface (child)
L 2’ 6” W 1’ 6” D 7”
4 inch below top rocks a second
layer of rocks inside the
grave evidently laid over
the body consisting of one large
slab and 2 small slabs.
lying on the
bones.
bottom of
grave
lined
with
stones
Head to W.

Grave 31. May 30
1” below surface -
2’ 1” L, 9” W 6” D -
Child - skeleton nearly
decayed all that was
left I saved to show
decay - Head to E. end and
pot at W. end
Burnt reed & bits
of charcoal & flint
chips & fragments
of bones of turtle &
bird - all saved

Grave 32 - May 30
Child. Top stones 1’ below surface
L 3’ 8” W 1’ D 7”
Skeleton nearly gone
saved under jaw &
4 leg bones -
Nothing in grave

Grave 33 May 31
Abt on central line
of hill 153 ft. S. of Northern
edge of hill.

The whole arrangement of the
bones shows that the body
was buried on its back in
an entire position & that by
some cause the bones have
been disturbed within the grave.
One tibia not in the grave
but both fibulae were.
The dirt in the grave was
light and loose & the

top rocks were a little
loose - It is probable
that the bones were
disturbed by some animal
& the missing tibia
carried out of the grave. Top of
grave was to the S. foot
at the N.
Top stones 1" below surface
Grave 1' deep, 1' 4" W
5' 3" L -
Grave contained a fragment
of child's skull &
2 or 3 other child's bones
4 fragments of pottery
(not saved) bits of charcoal
& fragment of shell
All the bones in grave saved.

Grave 35 - June 3 -
2" below surface - 6' 1" L 13" W.
14 D - adult - noted
the curved tibia -

Grave 36 - June 3
6' 1" L. 10" D - 19" W.
adult
large tibia
stone celt near pelvis

Grave 34. - June 3
6' L. 15" W -
adult. old person
nothing but skel. in grave

Grave 38 - June 3.
8" below surface
6' L. 15" W. 12" D.
adult - animal bones
& 1 bone impl.

Grave 39 June 5
1' below surface - grave at
3' 2 " L. 1' W. 6" D foot of hill
Child - near the lot
Dish at feet - dug out previously

Grave 4 - S of H May 31
child & mother
1' below the surface
3' 6" long - 14" W. 10 D.
2 pots - one at foot one
at head shell spoon
in the 6-knob pot - shell bead &
unio shell

Grave 5 S of H head at S end
21" below surface - jaw at the north end
6' 8" L. 2' W. with feet -
(over this were the remains leg bones broken
of another grave the stones some above
of which had been disturbed top rock
& only a few bones of the skeleton
were left -)
Grave 5 contained
Last 18 inches of grave lined
with potsherds - rest of
bottom lined with stones -
What I took to be a grave over
this was found to be a disturbance
of the bones of the grave some of these
broken by bones fitting on bones found
in the grave -
A large skeleton a few bones saved
to show size.

Grave 6 S of H May 31
9” below surface
5’ 2” L - 15” W.
outside rocks 16 ½” on sides
Nothing but skeleton -

Grave 7. S of H. May 31
Child’s grave end of
which was on top of
Grave 5 - Top stones abt.
6 inches below surface
Head to S.East -

Grave 8 - S of house May 31
12” below surface -
16” W - 12” D. 6’ L
Two skeletons - head of child at
N.E. end of the adult at S. W. end
Body of child on feet of adult.
Southern end of grave lined with
potsherds. rest not lined
Nothing else in grave

Grave 9 - S of H June 1
16” below suface
2’ 1” L. 14” W. 12” D
2 children 1 head to N. E. end -
1 head S. W. end of grave -
shell beads
nothing else

Grave 10 S of H. June 1
15” below surface -
6’ 1” L - 12” W - 15 D outside
adult head to east
nothing but skeleton -

Grave 11. S. of H. June 1
This had a top stone 5’ 6” long, 2’ wide
2” thick - 16” below surface - 5’ 5” L.
19” W - 13” D. 2 skeletons one at S. E.
end one at N. W. end - adult & youth -
Pot, unio shell, large flint knife 2 worked
bones - fragments of pottery, flint,
chips, stones, stone with
oxide of iron.

June 1.
Grave 12 South of H -
adult - not measured
abt 6' long -
nothing but skeleton.

Grave 13. S of H. June 1
18" below surface
W 16" - D 9" L 5' 11"
adult skel, H at the S. W.
Dish at head -

Grave 14 S. of H. June 1
1' below surface -
6' L, 15" W. 11" D -
contained skeleton of adult
& child.
nothing else.

Grave 15 S of H. June 1.
4" below surface.
16" W - 6' 6" L. 9" D.
2 skeletons - nothing else.

Grave 16 S of H. June 1
10” below surface
5’ 8” L. 16” W - 9” D.
2 skeletons -
one with head to north other
to south.
Nothing but skel. in bad
condition

Grave 17 S. of H -
15” below surface -
16” W. 6’ 4” L. 9” Deep -
a number of animal bones, split.
at feet of grave -
(See below)

Grave 18 S of H. June 1
1’ below surface
4’ L. - 14” W. 10” Deep -
Pot in fragments. Skeleton
badly decayed

Note abt 17. The skull of a very
old person was in center of
grave resting on pelvis. No under jaw
could be found after
2nd careful search - An extra
Collar bone in the grave -
no other bone of a 2nd skeleton
in the grave -

Grave 19 S of House June 1.
1' below surface
6' L. 19" W 1' D.
adult & of -
Head of adult to S.
" of child to N.
Dish with shell spoon
at pelvis - 3 unio shells
in grave

Grave 20 S. of house June 1
L 2' 10" - W 10" - D 6"
2' 1" below surface
Grave of child only
leg bones & arm bones
& pelvic bone & fragments
of skull – badly decayed
not saved

Grave 21 S of H. June 2
1" below surface
adult skeleton - nothing else
5' 7" L. 18" W. 12" D -

Grave 22. S of H. June 2

Grave of
child
shell bead -
Bones had been disturbed
To build grave 23 -
Head put in center
of grave - arm at
head of grave S. W. end

Grave 24 S of H June 2
below surface 17 inch
length 5 ft. 4 in.
depth 9 inch -
width 1 ft. 3 inch
grave of adult
with a youth

only two (cut?) fragments
of adult never found -

5 pots at head
of grave skull
towards centre.

See Cat 27330

Grave 25 S of H June 2.
14" below surf
6' 2" L - 1' 6 in. W 10" D
Head to south - one of
the foot bones with the
head. Pottery bead, shell spoon
& unio shell
skel. of adult

Grave 26 S of H - June 2
abt 1' below surface.
L. 6' 7" W 1' 5" D 1'
adult skeleton
nothing else

Grave 27 S of H. June 2
2' 6" below surface
L 6' W. 1' 8" D 1'
This was below 4 or 5 layers
of rocks placed on top of grave.
adult skeleton
Bone ornament at head. Head at west
This is the deepest down
of all the graves.
Fragment of another skull near centre of
grave – *{see?}* it -

Grave 28 - S of H June 2
Top rocks 17" below surface
L 5' 10" W 1' 6" D 1'
adult
All the bones were in a space
of 2' at S end of grave except
two toe bones which were at N. end of
grave - The skeleton was evidently
put in in a bundle. Head with sacrum
over it, & over that leg bone lay & arm bone
out of position.

Grave 29. S of H. June 2
Child - Head at N. East -
no bones saved
Water jar at knees, pot at
the feet - 4 shell beads -
shell spoon -
1" below surface L - 5' 9" W 10"
D. 8"

Grave 30 S of H - June 2
18" from surface - 2' 5" L, 8" W
D. 6"
Child - bones decayed
nothing in grave

Grave 31 S. of House June 2.
1' below the surface.
L 6' 2" W. 1' 8" D 1'
Head to South - adult
shell bead at head
2 skeletons one with
head to N -
much decayed - saved
2 under jaws & a few
long bones

Grave 32 S of House June 2
17" below surface.
L 6' 2" W. 16" D. 7"
Lined on bottom with stone

Grave 33
2 skeletons

Grave 34 South of house -
10" below surface
6' L. 16" W. 9" D
adult - see slanting
lower jaw
skeleton & unio shells.

Grave 35 S of H. June 3.
18" below surface -
4' 4" L. 9" D. 15" W -
Child' - discoidal stone
animal bone - shell
2 dishes -

Grave 36 S of H June 3
6' 4" 15" W – 9" D -
18" below surface -
adults
2 skeletons in grave.
both skulls at West end
sacrum & femur of one skel. at east end -
This was by the side of
grave 33 & is the first
instance I have seen
(or that George Wood had seen)
of one set of stones
serving as the side stones
of two graves -

only one set of
stones between

Top stones of 36 overlapping
those of 33.

Grave 37 S of H - June 3
1' below surface
4' L. 1' W - 15" D.
child
Nothing but skel.

Grave 38 S of House June 3.
4' L. 11" D. 20" W
14" below surface
Child - nothing with it

Grave 39 S of House June 3
15" below surface
4' L. 16" W. 12" D -
adult -

Grave 40 S of House
June 3
1' below surface
5' 9" L 2' W 1' Deep
Head at west end - 2 crania
at head - one at edge & one at
bottom in middle - 1 cranium
near shoulders - & 2 crania
near middle -

Bone ornament — Central portion of grave

Dish — Central portion
Frog Dish — of grave

Pipe, at head of grave
1 adult skull with frontal
suture -

Grave 41 S of H. June 5
6' 7" L. 1' 8" W. 7" D
1' 6" below surface
2 adult skeletons
nothing else -
One head at
each end
saved one
skull &
under jaw of other
also long bones of both.

Grave 42 S. of H - June 5.
1' 6" below surface
3' 7" L. 10" W 10" D
child. dish & human
shaped pot at the head
of grave close to skull.
Portions of shell spoon
also in grave but decayed
only saved some of
long bones of the child

Grave 43 S of House
June 5
6' 2" L. 19" W 7" D
adult
under jaw but no skull in grave
& grave did not seem
to have been disturbed.

Grave 44 S of House June 5.
23" below surface
6' 4" L. 20" W 9" D
2 side stones 8" in yellow
soil - adult -
Skull, pelvis & long bones saved
Nothing else in grave

Grave 45 S of House June 5

2' below surface – 2' Long
18" W - 9" D -
This is built between graves
43 & 44. The side rocks of
these graves forming head &
foot stones of little grave.
In taking out the bones
found that they had evidently
been disturbed in building
the other graves - head in
center & tibia resting over
it & reversed for leg
resting under - other tibia
crosswise -
adult
nothing but bones

Grave 46 S of H -
June 5
6” below surface
18” W - 9” Deep -
abt 6 ft long - ran under
roots of tree & could not
get to end -
adult skeleton at each
end & child in center
bones of one of the adults
out of order & look
like a 2nd interment -
Child with 1 shell bead
& shell totem near
skull on neck bones -
Saved long bones in part
& *{the?}* pelvis

Grave 47 S of H. June 5
1’ below surface - 3’ 2” L.
10” W - 8” D -
Child
shell spoon broken
head resting on a large piece of pottery - flint chip

Grave 48 S of H June 5
4’ L 14 ½” W. 8” D 18” below surface
Child - a few shell beads

APPENDIX H

EXPLORATIONS OF STONE GRAVES ON DR. JARMAN'S PLACE AT BRENTWOOD, TENN. MAY & JUNE 1882

Transcribed by Michael C. Moore

Appendix H presents a transcription of Frederic Ward Putnam's manuscript entitled "Explorations of Stone Graves on Dr. Jarman's Place at Brentwood, Tenn. May & June 1882" (Accession File 82-35, Folder #1, Peabody Museum Collections Dept., Harvard University). This composition is basically a revision of Putnam's field notes generated during the May-June 1882 excavations at Jarman's Farm (see Appendix G). Notable additions within the manuscript include Peabody Museum catalog numbers for specific artifacts and human skeletal remains referenced in the field notes.

A few discrepancies were noted between Putnam's field entries and the same information written as part of the manuscript text. These differences generally occur where a measurement entered as feet in the field notes is interpreted as inches in the manuscript. For example, Grave 19 (south of the house) is noted as "1' below surface" in the field notes, but "1 in. below the surface" for the manuscript text.

The manuscript was single-sided, double-spaced, and handwritten in ink by someone with fairly neat penmanship (clearly not the hand of Putnam). Most of the pages were numbered sequentially in odd numbers. Even number pages appear toward the end of the manuscript beginning with page 118. These original page numbers have been maintained in this appendix.

Several minor alterations have been made to the manuscript. First, the original manuscript has catalog number notations inserted above the double-spaced sentences. In this transcription, the catalog numbers have been added to the text with brackets placed around the numbers. Second, several plan-view drawings of stone-box graves occur with the text. These drawings are not included in this appendix. However, italicized notations and brackets mark the drawings' exact location in the text.

Explorations of Stone Graves on Dr. Jarman's Place at
Brentwood, Tenn. May & June 1882

Dr. Jarman's place is 2 mi. from
Brentwood, between Franklin and
Wilson's Pikes.
Explorations were begun with 3 men
May 26.
A large natural rise on which
the house is situated has been
occupied as a burial place, and
apparently about 2 ft. has been
added to the natural surface
at least in some portions of

the Eastern side. Work was begun
on the North eastern side.
Grave 1. Enclosed with stones and
top stones were on the surface.
This was a child's grave 2 ft. 2 in. long
12 in wide and 10 deep. The skel-
eton {No. 27176} was nearly decayed, all
that remained was saved.
The bottom of the grave was not
Lined and nothing except the
Traces of the skeleton was in the grave.

Grave 2. not enclosed. A child's grave
like Grave 1. Skeleton was nearly
all gone. With it were the follow-
ing articles. a pot in fragments
saved. 6 in. from this about in the
centre of the grave was a group of 3 or 4 pots {Nos. 27177-27182}
counting 1 very small bottle {27181}, 1 small
cup-shaped pot, both the latter with two discoidal stones {No. 27183} sitting in
a broken pot. Close by this was another
discoidal stone. Close to the
skull to the north was another pot.
This grave was E. W. head to W.

To the South about 4 feet up the
hill was another child's grave.
Grave 3. This was enclosed with
rocks but the top rocks which
were above the surface had been
removed. Only the remains of the
skeleton were found.
Grave 4. was about 40 ft. to the
west of the (preceding) others at the
foot of the western slope of the
hill. The top stones were 6 to 8 in.
below the surface. The grave was

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well made of stones. It was
6 ft. 3 in. long. 16 in wide 12 in deep.
The head was to the east, lying on
the left side and resting in a pot.
The under jaw with skull {No. 27185} was turned nearly
at right angles on the left of the
head. This skeleton {No. 27186} was got out
nearly perfect. Graves 4 & 5
were on the same level, (parallel) side
by side, 18 inches apart. Send
acknowledgement to W. H. Callender,
Brentwood for small ground axe,
polished celt. The ground axe & celt are
of light stone.

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Grave 5. 6 ft. 6 in. long. 18 in. wide
12 in. deep {*plan view of stone-box drawn here}* 6 small stones on top
By the side of Grave 4 on the
east. Head to the south.
It is remarkable that although
this grave was well covered and enclosed
& the bones in general in good condition
the only portion of the skull that
could be found was ½ of the
upper jaw with skeleton {No. 27190}. The rest of the
skull could not be traced at all.
Nothing more was found in the

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grave except a few fragments of
pottery {No. 27192}, 2 or 3 shells, &
some bark {No. 27193} (under the left arm).
Grave 6 was enclosed with stones.
The edges of the grave were above the
surface & the top stone was gone.
Length 2 ft. 6 in. width 10 in. depth
10 in. This a child's grave. Head
north west. Fragments of a
shell ornament and small frag-
ments of pottery. {Skel. No. 27194}

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Grave 7 enclosed. The top stone
was gone & the edges of the side
stones appeared at the surface.
{plan view of stone-box drawn here} Length 2 ft. 10 in.
width 14 in. depth 12 in. The
side stones were twenty inches deep,
sunk 7 inches in yellow clay. Bottom
lined with stone carefully laid. Not
a trace of a skeleton or of any-
thing in the grave. Send an
acknowledgement to Mr. John F. Hill
Brentwood, for pitted stone & 2 flints.

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Grave 8. May 27. Covered with
7 or 8 stones. 3 stones in order
just below the surface. Side
stones 1 ft. in yellow clay. Stones
themselves 14 in. deep. Length of
grave 6 ft. width 18 in. Depth 11 in.
A few fragments of pottery proba-
bly of a single vessel near the
centre of the grave. Head to
south. Skeleton in fine condition, {No. 27196}
Obtained skull {No. 27195} & bones.

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Grave 9. May 27. Its length was
3 ft. width 9 in to 12 in. depth 12 in.
The bottom was covered with stones. It
was the grave of two children & contained
besides their skeletons {No. 27197} a small round jar {No. 27198},
charcoal, & fragments of shell and pottery.
Grave 10. May 27. Grave of a child.
Length 2 ft. 8 in., width 12 in., depth 8 in.
It was 13 in below the surface. It
was well made and covered.
No stones were on the bottom. Head to
the south. Bones {No. 27199} were saved.

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Grave 11. May 27. Length 6 ft. 2 in.
width 17 in. depth 12 in. The head
was to the south. The grave was 13
in. below the surface. Nothing but
the skeleton {skull No. 27200 bones 27201} was in the grave.
Grave 12. May 27. Beside Grave 11,
on the same level & 18 inches
away, 12 inches below the surface.
2 ft. 11 in. long, 11 in. wide 11 in deep.
Head to the south. Some
shell beads {No. 27204} and one pottery bead {No. 27203}
were found {with neck bones} in this grave. {Skel. 27202}

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Grave 13. May 29. Length 6 ft. 2 in.
width 16 in. depth 12 in. It lay
9 inches below the suface & was well
covered in with stone. This was
the grave of an adult* who was
laid with the head to the west.
The bones were much disturbed. The
shoulder blade was at the foot of
the grave. As the head of the
grave lay one tibia with its
upper end back of the skull, the
other tibia was crosswise over the pelvis
and chest, with the foot end directed

** Skull No 27205 has great development of Wormian bone, and extra parietal suture, & no lateral incisors appear to have been developed.*

towards & close to the left shoulder
(blade?). The head lay on its left
side and the under jaw {skull 27205} 6 in. away
on the right side of the grave. {Skeleton No. 27206}
The bottom of the grave was not laid
with stone. Fragments of pottery {No. 27206}
and flint chips {"and animal bones" No. 27208} were found in it.
{plan view of stone-box and disturbed bones drawn here}
Grave 14. May 29. 1 ft. below the surface.
This grave was 6 ft. 5 in long, 1 ft. 3 in wide,
8 in. deep. It had 3 side stones
and 4 top stones. The bottom was
lined with fragments of pottery {No. 27211} which
was all saved. The head lay to the

west. Skeleton {No. 27209} in good condition and
saved. Skull (No. 27209 "Crania & jaw"} with all the teeth.
Nothing else was found in the
grave.
May 29. Grave 15. This lay 1 ft. 3 in
below the surface. It was 5 ft. 10 in
long. 10 in. deep, 1 ft. 6 in. wide.
The head lay to the east. Nothing
remained in the grave except the
skeleton {crania & jaw 27212, 27213} and a round stone {No. 27214} on the
chest. Cat {frag shell, charcoal, animal bone No. 27216}
{fragments of pottery 27215}
May 29. Grave 16. This was found
10 in. below the surface. It was

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6 ft. 8 in. long. 18 inches wide, 11 inches
deep. The bottom was stone-lined.
{skull No. 27217 skel. No. 27218}
A dish {27219} lay at the head of the
skeleton. {"Fragments of pottery & stone" No. 27220}
May 29. Grave 17 lay 9 in. below
the present surface. Length
5 ft. 5 in. width 1 ft. 8 in. depth
It was lined with thick potsherds
some of which I saved on account
of their large size. There were
200 potsherds & 3 or 4 stones. The
skull {No. 27221} was decayed but saved.

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Nothing else was found in this grave.
10 inches off was
Grave 18. opened May 29. It was
3 in. below the surface. Its length
was 5 ft. 8 in., width 1 ft. 4 in. and depth
1 ft. 1 in. (Graves 17 & 18 are up
the hill a little way and their
bottoms are not much (but little)
below the tops of graves 19 & 20.)
The skeleton {skull No. 27223 & skel No. 27224} lay with its head to
the west and as the lower end of the
grave on the foot bones lay a

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skull {No. 27205} with out any other bones belong
ing to it.
Grave 19. opened May 29, was situated
1 ft. 5 in. below the surface. Length
3 ft. 10 in. width 1 ft. 5 in., depth 1 ft.
The skeleton {No. 27226} was that of a child
and laid with its head to the south west. In a corner of
the grave near the head was a
bowl {No. 27227} and on the same side of the
grave near the middle, a jar {or “waterbottle” No. 27228}.
The bottom of this grave was not lined

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Grave 20. May 29. This grave was
{“divided into two chambers”}
10 inches below the surface.
It was 2 ft. 2 in. long, 1 ft. 2 in. wide and
10 inches deep. To the south-west
of this was a small grave 1 ft. long,
1 ft. wide 2 in lower down, which I
have called Grave 20 ½ . It was 1 ft. 4 in long,
1 ft wide & 9 inches deep. The bottom
was lined with pottery fragments.
In digging out this grave I find
that it extended under Grave 20,
the foot rock of the little grave
having been removed and set

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further up in the grave, so that
Grave 20 was built in part on
the little Grave 20 ½. Both graves
were lined with sherds laid on
flat stones. From Grave 20 ½ I
saved the jaw of a child with the
arm bones {No. 27229} & 3 or 4 shell beads {No. 27230}.
On cleaning out Grave 20 I find
it to be a part of the little Grave
20 ½ and not a grave built on
this, as at first I thought. Grave 20
was arranged in this way. Two rocks

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{plan view of split stone-box drawn here}

were put down the grave, cutting it
into two. They must have
been placed there as there was
no chance of their working down.
The skull and arms were in the small
division and the rest of the skeleton
was in the large division. The
entire grave was lined with pottery
& stones. Several shell beads {No. 27230},
jaw, arm bones & one tibia {No. 27229} were
found.

{for graves 21 & 22 see
ms pp. 49.51.}

May 30. Grave 23. The top rocks of
this grave were 6 inches below the
surface. Length 6 ft. 7 in. width
1 ft. 10 in. depth 1 ft. 3 in. This was
the skeleton of an adult laid with
the head to the west, on its back
the arms extended at the sides as
is the usual position. Several
large stones were inside
the grave pressing down upon the
body. I saved the skull {No. 27236} & a few
long bones {No. 27237}. Nothing besides was in the grave.

May 30. Grave 24. This is the
grave of a child found six inches
below the surface. Its length was
2 ft. 6 in. width 1 ft. 6 in. depth 7 inches.
4 inches below the top rocks
was a second layer of rocks inside
the grave, evidently laid on the
body, consisting of one large slab &
two small slabs, lying on the bones.
The head was to the west. The
bottom of the grave was lined with stones.
{Skeleton 27238}

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May 30. Grave 27. This was 1 ft. 4 in.
below the top rocks. The side
rocks were sunk 4 inches in yellow
clay. This grave was 1 ft. deep
6 ft. 3 in. long, 1 ft. 3 in. wide.
The head was to the South.
There was nothing in the grave
besides the skeleton. {No. 27242 & 27243}
May 30. Grave 28. This was that
of a child, 3 inches below the surface.
It was 3 ft. 5 in. long, 10 inches wide,
7 inches deep. The head was to

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the south-east. A dish was
{skeleton “under jaw & leg bones” 27244}
set at the foot of the grave.

May 30. Grave 26. That of a child
found 12 in. below the surface.
This grave was 3 ft. 6 in. long, 1 ft. 3 in.
wide and 9 inches deep. The bottom
of the grave was lined with pottery.
In the centre of the grave was a
small water-bottle {No. 27241}. The head
was toward the west. {Skel. 27240}
May 30. Grave 25. This grave was
reached at a depth of six inches.

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The length was 3 ft. 3 in. the width
1 ft. 2 in. and depth 7 inches. The
head lay toward the south. This
was a child's grave and contained
nothing besides the skeleton. {No. 27239}
Grave 22. May 30. This grave was
found 11 inches below the surface. Its
length was 6 ft. 7 in. depth 1 ft. and
width 1 ft. 7 in. This was the grave of
an adult whose body had lain with the
head to the west. The tibia {No. 27234}
had a united fracture. {Cranium & jaw
No. 27233 & Skeleton No. 27234}

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Grave 21. May 30. This grave was
six inches below the surface. It
was 6 ft. long, 1 ft. 6 in. wide, 1 ft. 2 in.
deep. There were several large
top rocks and one small one in
a {two deep} double layer. There were two
side rocks. Nothing was in the
grave but the skeleton {No. 27231 & 27232} of an old
person.
Grave 30. May 30. 20 ft. to
the east of Grave 27, a little up the
hill. This grave was reached 5 in.
below the surface. It was that of an

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adult. The head lay to the east.
The grave was 5 ft. 6 in. long, 1 ft. 3 in. wide and
11 inches deep. The skeleton {No. 27246 & 2747} was removed
nearly complete. In one of the vertebra {No. 27248}
of the neck was a stone arrow-
point. A large clay bead {No. 27249} was found
and a gourd.
Grave 31. May 30. 1 in. below the
surface. This was a child's grave,
2 ft. 1 in. long, 9 in. wide & 6 in. deep.
The skeleton {No. 27250} was nearly decayed,
but all that was left I saved to
show the decay. At the east end

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of the grave lay the skull, at the
west end a pot {"with node" No. 27251}. *{small drawing of pot here}* These
were saved besides burnt reed and bits
of charcoal, flint chips {No. 27252} & fragments
of bird and turtle bones.

Grave 32. May 30. The top stones of this grave was 1 in.
below the surface and the grave proved to be
that of a child. the length of
this grave was 3 ft. 8 in., width 1 ft.,
depth 7 in. The skeleton was
nearly gone but I saved the
under jaw & leg bones (No. 27253}. Nothing else

was in this grave.

Grave 33. May 31. About on the central
line of the hill, 153 ft. south of
{plan view of grave and bones drawn here}
the northern edge of hill. The
whole arrangement of these bones
shows that this body was buried on
its back in an entire position &
that by some cause the bones
have been disturbed within the
grave. One tibia was not in the
grave but both fibulae were. The
dirt in the grave was light and

loose & the top rocks were a
little loose. It is probable that
the bones were disturbed by some
animal & the missing tibia
carried out of the grave. The head
of the grave was to the south, foot
to the north. This grave was
5 ft. 3 in. long, 1 ft. 4 in. wide & 1 ft. deep.
The top stone lay only 1 inch below
the surface. Besides the adult
skeleton {cranium 27254} mentioned above, it contained
a fragment of the skull of a child (No. 27255} & 2 or 3 bones of

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a child {No. 27255}. These with all the other bones
in the grave were saved. There
were in the grave besides some
bits of charcoal, a fragment of
shell {No. 27256} & 4 fragments of pottery
which were not saved.
Grave 35. June 3. It was reached
at a depth of 2 inches, and was
6 ft. 1 in. long, 13 inches wide & 14 inches
deep. It was that of an adult.
The tibiae are curved (Skeleton Nos. 27258 & 27259}.
Grave 36. June 3. This was the
grave of an adult. Its length was 6 ft. 1 in.

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width 19 in., 10 in. deep. The tibiae {No. 27261} are
large. Near the pelvis was a
“polished” stone celt {No. 27260}.
Grave 34. June 3. This grave was
6 ft. long, 15 in. wide. Nothing was
in the grave but the skeleton
{“under jaw & long bones” No. 27257}
which was that of an old person.
Grave 38. June 3. This was found
8 inches below the surface. Its length
was 6 ft. width 15 in. and depth 12 in.
It was that of an adult. There were
besides the bones {cran. No. 27260}, animal bones {no. 27263}, & 1 bone implement.

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Grave 39. June 5. The topstone
was 1 inch below the surface. Its
length was 3 ft. 2 in., width 1ft.,
depth 6 in. It contained the
bones of a child {No. 27264} with a dish at
the feet {No. 27265}. This grave was
at the foot of the hill near
the lot dug out previously.

South of the House in the Garden.
Grave 1 S. of house. This was 1 ft.
below the surface and was that
of a child. Its length was 3 ft. 1 in.

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width 1 ft. depth 9 inches. There was
in the grave only the skeleton of
which the long bones and ear bones {No. 27266}
were saved.
Grave 2. S. of house. May 31. 6 in. below
the surface came upon the grave.
It was 5 ft. 8 in. long, 1 ft. 5 in. wide,
1 ft. deep. It contained the skeleton {Nos. 27267 & 6}
of an adult and nothing else.
Grave 3. S of house. May 31. 20 in. below
the surface. The length of this grave
was 6 ft. 7 in. width 18 in. & depth 12 in.

In it were the skeleton of an
adult laid with the head to
the west and near the head
two pots {one incised 27272 & one 2 handles 27271}, one bead of pottery {No. 27273},
three unio shells {No. 27274}. {Skeleton No. 27269 & 27270}
Grave 4 S. of house – May 31 –
This grave was 1 inch below the surface
and was 3 ft. 6 in. long, 14 in. wide
and 10 inches deep. It was that of
a mother & child, buried with a
{drawing of pot 27276 placed here}
pot at the head {No. 27276} & a pot at the
{drawing of pot 27277 placed here}
feet {No. 27277}. In the 6 knobbed pot was a

shell spoon {No. 27276}. A shell bead {No. 27280} &
unio shell also were in this grave.

Grave 5. S. of house. This was 21 in.
below the surface. Its length was 6 ft. 8 in.
width 2 feet. Over this was what
I at first took to be the remains
of another grave whose stones had
been disturbed, and only a few
bones of the skeleton {No. 27281} left lying upon
the topstones of Grave 5, but it turned
out that these bones were a part of
the skeleton in Grave 5 which had

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been disturbed. Some of the fragments
of leg bones fitted to bones found
in the grave. The head was
at the south end but the jaw
at the north end. The bones
were large and a few were saved
to show their size. The lower
eighteen inches of the bottom of the grave was lined
with potsherds but the rest
was lined with stones.
Grave 6 S. of house May 31. This was
at a depth of 9 inches. It was 5 ft. 2 in. long,

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15 inches wide. The outside rocks were 16 ½ inches
on the sides. Nothing but the
skeleton {No. 27282 & 27283} was in this grave.
Grave 7. South of house – May 31 –
This was a child's grave, and its
end overlapped Grave 5. The top-
stones were about 6 inches below the
surface. The head was to the
southeast.
Grave 8. S. of house. May 31. 12 inches
below the surface. It is 6 ft. long,
16 inches wide & 12 inches deep. It

contained two skeletons, and adult {Nos 27284 & 27285} with
head to the southwest and across
its feet a child's skeleton {No. 27286} with
head to the north east. Nothing
else was in the grave. The southern
end of the grave was lined with
potsherds, the rest was not lined.
Grave 9 south of house – June 1. This
grave was 16 inches below the suface.
Its length was 2 ft. 1 in. width 14 inches
& depth 12 inches. Two children {Nos. 27287 & 27288}
were buried in it, one with the head to

the north east end, the other, this with fractured ulna, with
head to the south west. Shell
beads {27289} were found in it.
Grave 10 – south of house – June 1.
The lay 15 in. below the surface.
It was 6 ft. 1 in. long, 12 in. wide,
& 15 in. deep on the outside. It was
that of an adult laid with head
to the east. Besides the skeleton {Nos. 27290 & 27291},
{"ankylosis of first vertebra".}
there was nothing in the grave.
Grave 11. S. of house. June 1. This had
a top stone 5 ft. 6 in. long, 2 ft. wide,
2 inches thick, lying below the surface 16 inches

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The grave was 5 ft. 5 in. long, 19 inches
wide, & 13 inches deep. There were two
{Nos. 27292 with fractured parietal, 27293 & 27294 & 95}
skeletons in it, one at the south-east
end and the other at the northwest. One
was that of an adult, the other of
a youth. With them were found
a pot {“animal ornament” No. 27296}, a unio shell, a large flint knife {No. 27300},
2 worked bones {No. 27303}, fragments of pottery {No. 27297},
flint {No. 27301}, chips {No. 27298}, stones, stones with oxide of
iron {No. 27299}.
Grave 12, south of house – This was about
6 ft. long, and contained only the skeleton
of an adult. This was not measured.

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Grave 13. S. of house – June 1 –
18 inches below the surface. Length
5 ft. 11 in, width 16 in., depth 9 in.
The skeleton {Nos. 27307 & 27308} was adult; the head
was to the south-west, and
lying by the head was a pottery dish {No. 27309}.
Grave 14 south of house – June 1-
This was found 1 in. below the surface.
It was 6 ft. long, 15 inches wide &
11 inches deep. It contained only the
skeleton {Nos. 27310, 311} of an adult & a child {No. 27312}.
Grave 15, south of house – June 1 –
This was reached at a depth of 4 inches.

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The length was 6 ft. 6 in. width 16 –
depth 9 inches. Two skeletons {cranium 27313 cranium 27314 & 27315 skeletons of}
were buried in it & nothing else.
Grave 16 south of house. June 1.
This was 10 inches below the surface.
It was 5 ft. 8 in. long, 16 inches wide
& 9 inches deep. In it were two
skeletons {of two & two under jaws No. 27316} in bad condition & nothing
else. The head of one was laid
to the north, of the other to the
south.
Grave 17 south of house – was 15 inc
below the surface. It was 6 ft. 4 in. long,

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16 in. wide, & 9 inches deep. In the
{Skeleton Nos. 27317 & 27318}
center of the grave was the skull
of a very old person {No. 27319}, resting on
the pelvis. No under jaw could
be found on a second careful
search. An extra collar {No. 27326} bone
was in the grave, with no other
bones of a second skeleton. At the
head of the grave were a number
of {“fragments of pottery No. 27321}, split animal bone {No. 27322}.
Grave 18. South of house. June 1 –
This was 1 in. below the surface –
4 ft. long, 14 in. wide, & 10 in. deep.

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The skeleton was badly decayed. A
pot {“animal head, incised ornament” No. 27323} in fragments was found.
Grave 19 – south of house – June 1 –
This was 1 in. below the surface.
It was 6 ft. long, 19 inches wide & 1 ft.
deep. There was in it the skeleton {Nos. 27324 & 27325}
of an adult buried with head to the
south & of a child {No. 27326} with the head
to the north. At the pelvis of the adult
was a dish {No. 27327} with a shell spoon {No. 27328}.
Three unio shells {No. 27329} were in the grave.
Grave 20. South of house – June 1 –
It was found 2 ft. 1 in. below the surface.

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Grave 21. South of house – June 2 –
This lay 1 in. below the surface. It
was 5 ft. 7 in. long, 18 in. wide,
& 12 in. deep. Besides the skeleton
of an adult {No. 27330} there was nothing
in the grave.
Grave 22. South of house – June 2 –
Grave of a child whose bones {No. 27331) had
been disturbed in building Grave 23.

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The head was in the center
of the grave and the arm at
the head (?) or south-west end
of the grave. {“Shell bead” No. 27332}
Grave 24. South of house. June 2.
This was 17 inches below the surface.
Its length was 5 ft. 4 in., width
1 ft. 3 inches & depth 9 inches. This
was the grave of both an adult & a youth {“bones of skeleton “ 27334}, with
the skull {No. 27333} towards the center,
and five pots {Nos. 27337-27341} at the head.
Two cut? Fragments

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were all that remained of the
skull of the adult. {See cat. no. 27336}
Grave 25 South of House – June 2
This was 14 inches below the surface.
Its length was 6 ft. 2 in., width 1 ft.
6 in. and depth 10 in. The head
was to the south & by it was
one of the foot bones. The skeleton {Nos. 27342-43}
was that of an adult and with
it was a pottery bead {No. 27345}, shell spoon,
& unio shell {No. 27344. flint chips 27346}.
Grave 26. South of house – June 2 –
This was about 1 inch below the surface.

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Its length was 6 ft. 7 in. width
1 ft. 5 in. and depth 1 ft.
It contained an adult skeleton {No. 27347}
and nothing else.
Grave 27. South of house, opened June 2.
It was found 2 ft. 6 in. below the
surface and was 6 ft. long, 1 ft. 8 in.
wide, 1 ft. deep. On top of the
grave were placed 4 or 5 layers
of rocks. This was at the
lowest depth at which
any of these graves were found.
In it were the skeleton {Nos. 27348, 27349} of an adult

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with head to the west and
near the centre of the grave, a
fragment of another skull. Near
the head was a bone ornament.
Grave 28, south of house, June 2.
The top rocks were 17 inches below
the surface. The length was 5 ft. 10 in.
width 1 ft. 6 in. & depth 1 ft. The
skeleton was adult. All the bones
were in a space of 2 ft.(?) at the
south end of the grave except two
toe bones which were at the north

end of the grave. The sacrum
was over the head, and upon that
sacrum lay the leg bone. Both
leg & arm bones were out of position
and it is evident the skeleton {Nos. 27351 & 27352}
{plan view of bones drawn here}
was put into the grave as a bundle.
{Bone ornament from side of skull No. 27350}
Grave 29 south of house – June 2 –
This was that of a It
was 1 inch below the surface. The
length of was 5 ft. 9 in., width 10 in, & depth
8 in.
At the knees was a water jar {No. 27355} &

at the feet a pot {No. 27356}. A shell bead {No. 27358}
& shell spoon {No. 27357} were in the grave.
Grave 30. South of house – June 2 –
18 inches from the surface. This was
2 ft. 5 in. long, 8 in. wide & 6 inches
deep. The skeleton of a child
having the bones much decayed
was all that was in the grave.
Grave 31. South of house – June 2 –
This was 1 in. below the surface.
Its length was 6 ft. 2 in. width 1 ft.
8 in. & depth 1 ft. The first skeleton
was adult & had the head to the south,

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and near the head a shell bead {No. 27354}. A
second adult skeleton had been buried
with head to the north. Both
skeletons were much decayed, but
2 under jaws & a few long bones
were saved. {No. 27353}
Grave 32, south of house. June 2
This was 17 in. below the surface.
Its length was 6 ft. 2 in. width
16 in. depth 7 in. The bottom of
the grave was stone-lined.
Grave 33 south of house. 2 skeletons
{Nos. 27370. 27371 & 27372}

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Grave 34, south of house – was 10
inch. below the surface. It was
6 ft. long, 16 inch. wide, & 9 inches
deep. This was an adult
skeleton {No. 27359}. The lower jaw is
slanting. From his grave
were obtained a skeleton & unio
shells.
Grave 35 south of house – June 3 –
This was 18 in. below the surface.
It was 4 ft. 4 in. long, 15 in wide,
& 9 in. deep. It was a child's
grave {skeleton No. 27360} and contained a discoidal

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stone {No. 27363}, and animal bone {No. 27364}, a shell {No. 27365} & two dishes {Nos. 27361 & 27362}.

Grave 36, south of house, June 3 –

This was 6 ft. 4 in. long, 15 in. wide & 9 in. deep. It was 18 in. below the surface. Two adult skeletons (No. 27368} were in the grave. Both skulls {Nos. 27366-67} were at the west end, the sacrum & femur of one skeleton were at the east end. Graves 36 & 33 were side by side with a single set of stones serving as the side stones of both graves. This was the first

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instance I (or George Wood) have ever met of one set of stones serving as the side {No. 27369 “shells”} stones of two graves. The top stones of Grave 36 overlap those of Grave 33.

Grave 37 s. of House, opened June 3. found at 1 in depth. It was 4 ft. long, 1 ft. wide, & 15 in. deep. Nothing but the skeleton {No. 27373} of a child was in this grave.

Grave 38. S. of house. June 3. This was 14 in. below the surface, was 4 ft. long

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11 in. deep & 20 in. wide. Nothing
besides the skeleton {No. 27374} of a child
was found in it.
Grave 39. S. of house. June 3.
This was 15 in. below the
surface, was 4 ft. long, 16 in.
wide & 12 in. deep. This was
the grave of an adult {No. 27375}
{Tibiae 27376}
Grave 40 s. of house. was 1 ft. below
the surface and was 5 ft. 9 in.
long, 2 ft. wide & 1 ft. deep.
{Crania, two Nos. 27377, 27378 with frontal suture, also No. 27379
&27380 Bones A-B skeletons No. 27382, 27381}

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The head of the grave was at the
western end and there were two
crania one at the edge & one
at the bottom near the center
of the head of the grave. Another cranium
was found near the shoulders
& still two other were near the
middle of the grave.
In the central part of the grave
were a bone ornament {No. 27385}, a dish {No. 27384},
a frog dish {No. 27383}, & at the head

of the grave a pipe {No. 27386}. “Two”
adult skulls had a persistent
frontal suture.
Grave 41 s. of house. June 5.
This was 1 ft. 6 in. below the
surface & was 6 ft. 7 in. long, 1 ft. 8 in.
wide & 7 in. deep. In it were
2 adult skeletons {Nos. 27387 27388 27389} & nothing else.
{plan view of stone-box and human remains drawn here}
One head was to the S. east &
the other to the north-west. One
skull & the under jaw of one
skeleton were saved & the long bones of the other

Grave 42. south of house. June 5.
1 ft. 6 in. below the surface. This is
3 ft. 7 in. long, 10 in. wide, & 10 in. deep.
In it were the skeleton of a child {No. 27390},
a dish {No. 27391} & a human shaped pot {No. 27392}
at the head of the grave close to
the skull. Fragments of a shell
spoon were also in the grave but
decayed. Of the skeleton, only
{“shell beads” No. 27393}
the long bones were saved.
Grave 43 s. of house. June 5.
This was 6 ft. 2 in. long, 19 in. wide,

and 7 inches deep. This was the grave of
an adult and although it did not
seem to have been disturbed, yet of
the skull only
the under jaw {No. 27394} could be found.

Grave 44 south of House was opened
June 5. It lay 23 inches below the
surface and was 6 ft. 4 in. long, 20
inches wide & 9 in. deep. The two
side stones were sunk 8 in. in yellow
soil. The skull pelvis & long bones {Nos. 27395 & 27396}
of an adult were saved. Nothing else was in this grave.

Grave 45 south of house. June 5 –
This was 2 ft. below the surface & was
2 ft. long 18 in. wide and 9 in. deep.
{plan view of Graves 43-45 and Grave 45 human remains drawn here}
Grave 45 is built between Graves
43 & 44. The side rocks of these
graves formed the head & foot stones
of the little grave. In taking out
the bones it appeared that the
head been disturbed in building the
two other graves. The skeleton {No. 27397} was that
of an adult the head was in the center
one tibia resting under the head was reversed from the femur

which lay beneath the skull. The
other tibia lay crosswise. Nothing
but the bones was found.
Grave 46. south of house – opened June 5.
This was 6 in. below the surface.
It was almost 6 ft. long, 18 in. wide,
9 in. deep. The exact length
could not be determined as the
grave ran under the roots of a tree.
There were in it three skeletons, two
of adults {No. 27398} & one a child's {No. 27399}. The bones of one of the adult
skeletons lay out of order as if
it were a secondary interment.

The child's skeleton lay in the
center. Near the skull of the
child on the neck bones were a
{"pearl"} shell bead {No. 27400}, & {"carved"} shell totem {No. 27401}.
The long bones & part of a pelvis
were saved.
Grave 47. south of house. June 5.
This grave was 1 ft. below the
surface. This was 3 ft. 2 in. long,
10 in. wide & 8 in. deep. It was
a child's grave & the head rested
on a large piece of pottery. There
were besides a flint chip & a shell spoon which broke on touch.

Grave 48 south of house. June 5.

This was at a depth of 18 in. and

was 4 ft. long, 14 ½ in. wide & 8 in.

deep. It was that of a child {No. 27402}.

In it were a few shell beads.

Graves east of House coll. By Dr. W.

H. Jarman 1881. Cran. & jaw No. 27403.

Fragments of cranium No. 27404. Portions

of two skeletons 27405

APPENDIX I

TEXTILES IMPRESSED ON 40WM210 CERAMICS

Suzanne D. Hoyal

Analysis of textile attributes includes an examination of negative fabric impressions on ceramic pan sherds and their positive baked clay casts. The 40Wm210 fabric impressed ceramic assemblage includes 34 sherds (ID#s 1-34), yielding a total of 27 distinct textile structures (TS).

Twining is the only textile construction method represented on 40Wm210 ceramics. Interlacing, knotting, and basketry impressions are absent. Twining is a hand weaving technique that creates various textile structures or patterns of warp and weft interaction. Most 40Wm210 textile structures are either plain twining alone or alternate pair twining alone (Figure 133a and 133b). There are also cases of alternate pair twining combined with grouped weft rows, plain twining combined with transposed interlinked warps, and twining over nonalternating paired warps.

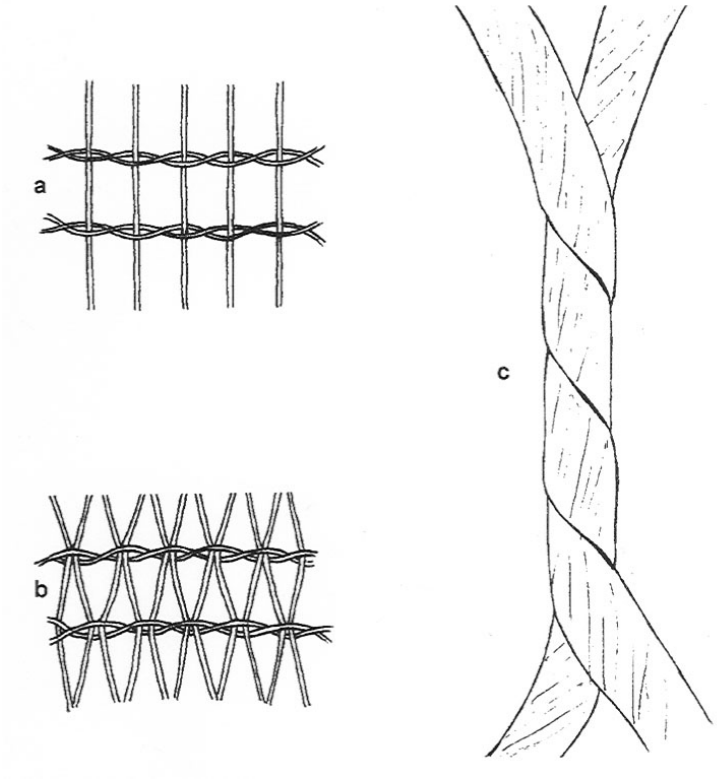

Figure 133. Twining and yarn illustration: (a) *plain (simple)* twining -- two active weft yarns pass over and under a single inactive warp yarn and over each other in between the warps; (b) *alternate pair (diagonal, twilled, or zigzag)* twining -- two active weft yarns pass over and under alternating pairs of inactive warp yarns; and (c) two ply, Z spun, S twist yarn.

All cases in the 40Wm210 sample display twining in the S direction. Twining direction can be observed by holding the clay cast with the weft oriented vertically. The twining slants down to the right as in an S mid-section.

All but two cases exhibit only two ply S twist yarns as shown in Figure 133c. The exceptions are Figure 134a containing three warp yarns composed of unspun bundles of fibers, and Figure 135a containing both S and Z twist warp yarns. There are no braided yarns. Warp yarn diameters range from 1.0 mm to 1.6 mm (Figure 135b and 135a); weft yarn diameters range from 0.8 mm to 1.8 mm. The combined average for yarn diameter is 1.2 mm.

Figures 134 and 135 show the variety of textile appearances from open twining (n=20) to compact or weft-faced twining (n=7). The number of weft rows per centimeter ranges from 0.8 for the most open to the maximum of 10 for the most compact (Figure 134a and 135c). Weft row diameters range from 1.0 mm to 2.2 mm (Figure 134c and 135a). One example (Figure 135c) displays a single weft 0.8 mm wider than others in the impression, possibly intended as a decorative stripe.

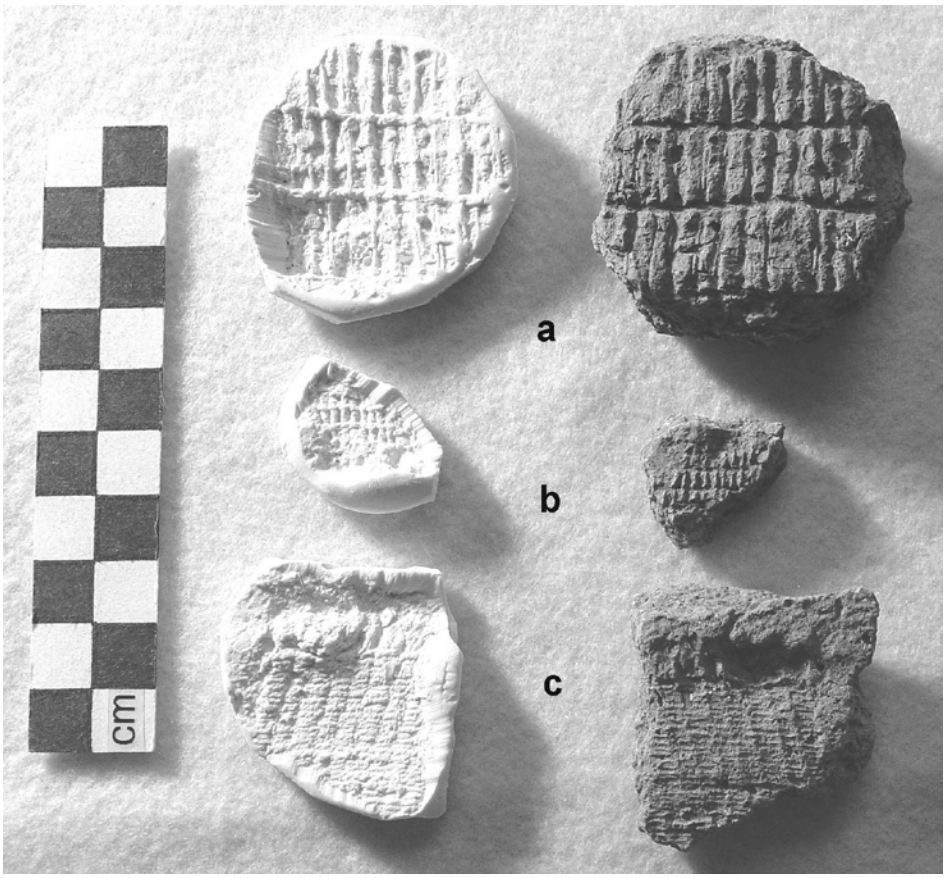

Figure 134. Range of twining from open to compact: (a) plain twining - ID# 29, TS# 21; (b) plain twining - ID#18, TS#15; (c) ID#11-lower is compact twining over nonalternating paired warps, TS# 9a, and upper is compact alternate pair twining, TS# 9b.

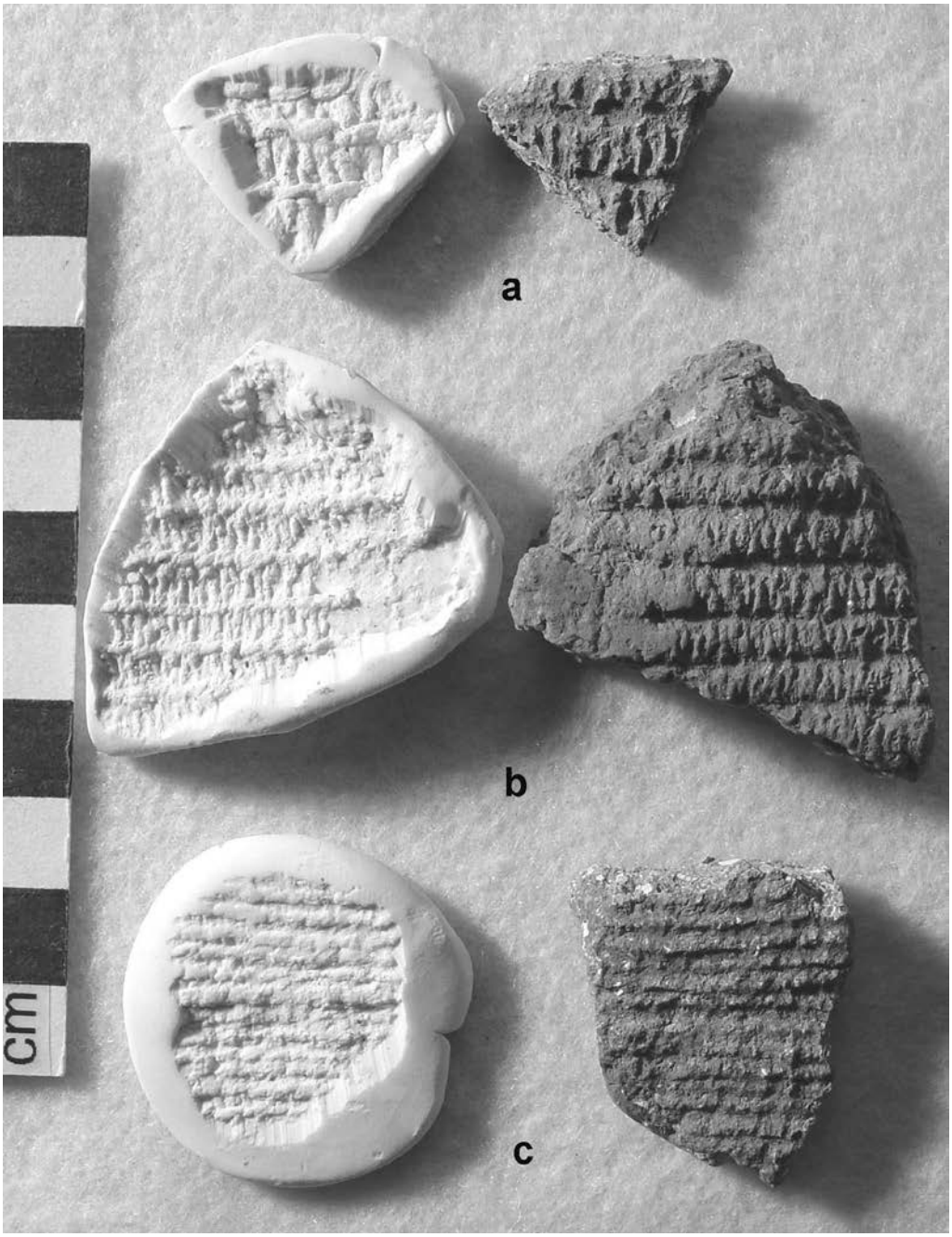

Figure 135. Range of alternate pair twining from open to compact: (a) ID# 34, TS# 23; (b) ID# 5, TS# 4; (c) ID# 7, TS# 6.

Complex/decorative textile structures include two cases of alternate pair twining combined with grouped wefts, with one case containing both two and three-row groups (Figure 136). There is an average of 4.5 mm between the grouped weft row bands and average band width is 4.5 mm.

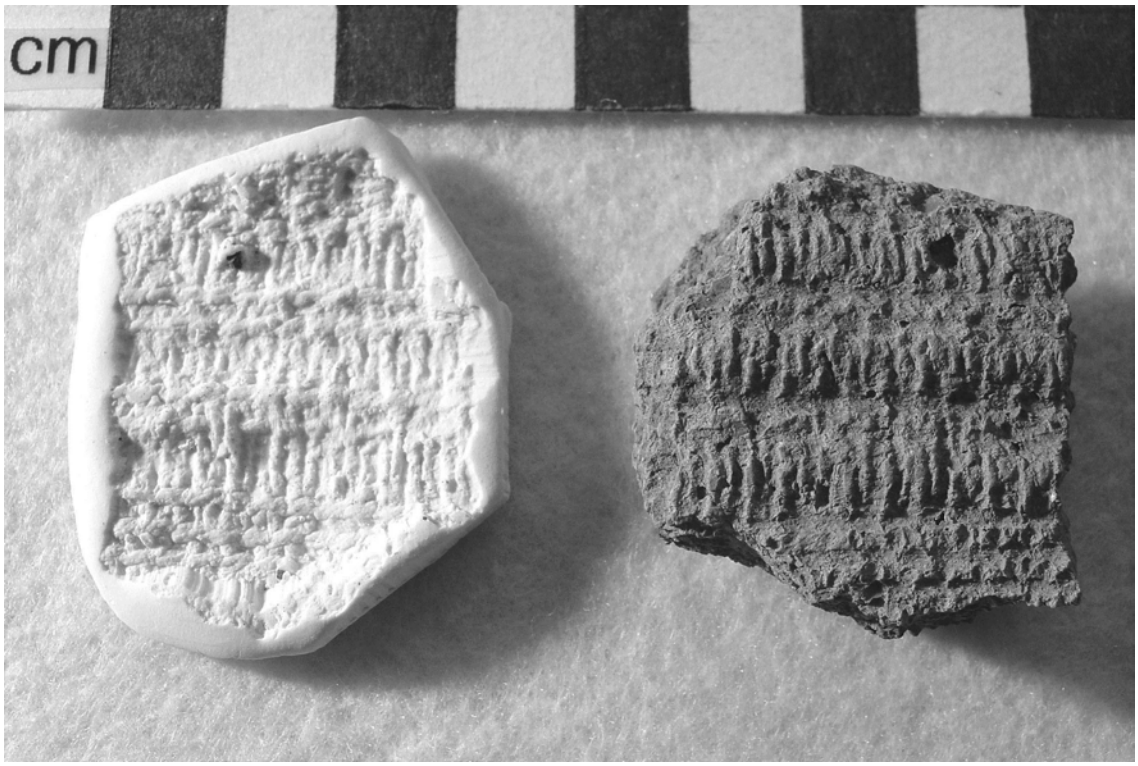

Figure 136. Alternate pair twining combined with grouped wefts - ID# 8, TS#7.

Complex/decorative textile structures also include two cases of plain twining combined with transposed interlinked warps (Figure 137). The space between transposed interlinked warps in both cases averages 1.4 mm. Both examples are general surface finds, similar in attributes and appearance, but were given individual TS#s since their proximity is unknown and the pieces do not cross-mend.

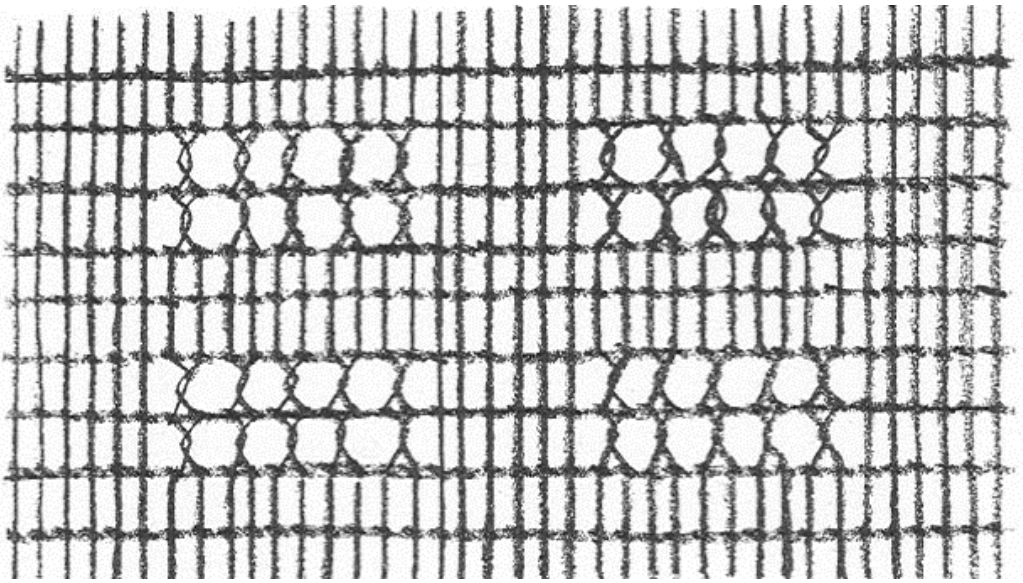

Figure 137. Plain twining combined with transposed interlinked warps. Illustration approximates textiles impressed on ID#s 3 & 4 (not to scale).

There are two examples where at least three secondary wefts connect to the primary horizontal weft row at an approximate 20º angle (Figure 138). The connection appears to be a true textile feature rather than the result of changing textile position during impression into the clay vessel. As with the example above, attributes and appearance are similar, but provenance is different, and ID#s 14 and 16 do not cross-mend. Unfortunately, on both sherds the occurrence is near the break making conclusive identification as a decorative structure unattainable. Both are counted as alternate pair twining alone.

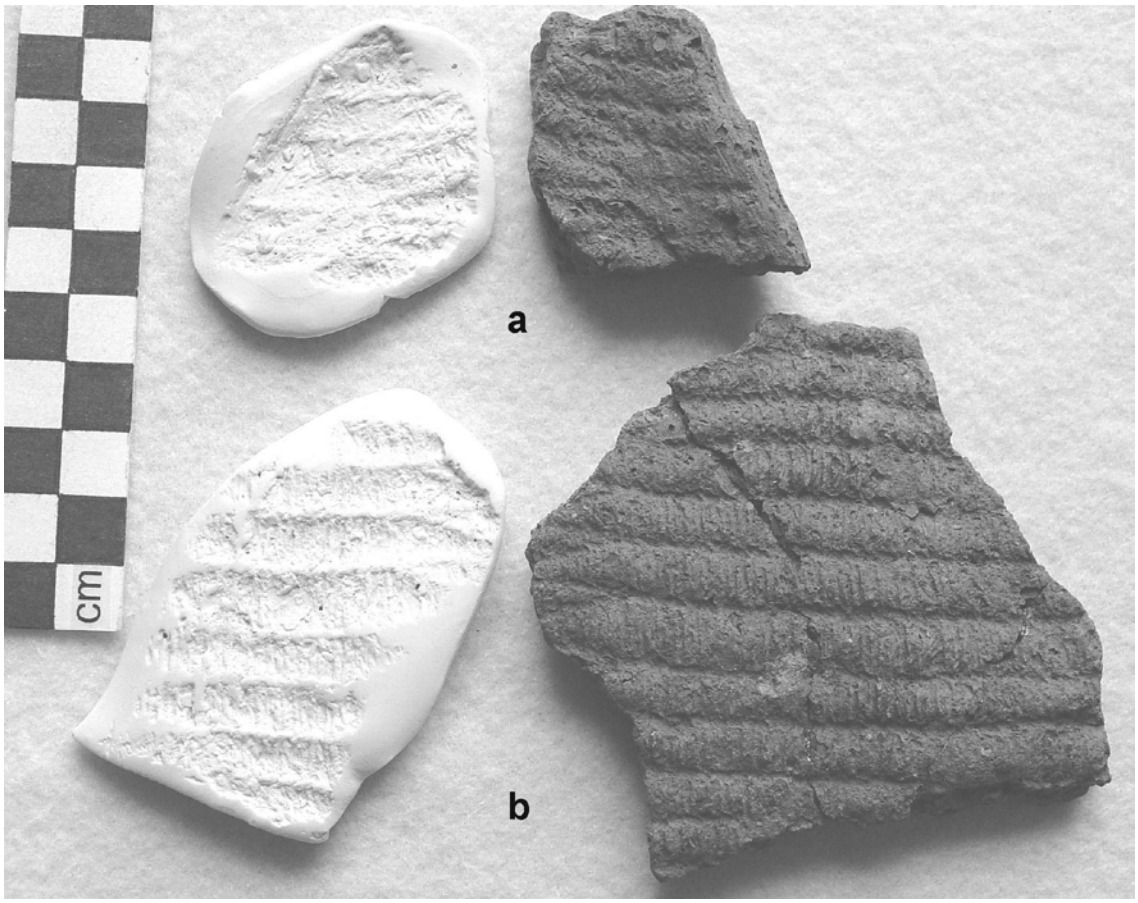

Figure 138. Alternate pair twining. Weft rows connecting at an angle are near the left edges of the sherds and right edges of the casts: (a) ID# 14, TS#12; (b) ID# 16, TS#14.

There are two examples of multiple textile structures on a single fabric (Figure 139). Each example contains compact twining over nonalternating paired warps, compact alternate pair twining, and a third unidentified transition structure. The clay cast indicates possible crossed warps and missing weft elements, but definitive identification of the third structure remains elusive. Again, two examples have similar attributes and visual appearance, so it is possible they are from the same textile and/or vessel, but provenances are different and ID# 11 does not cross-mend with ID# 15.

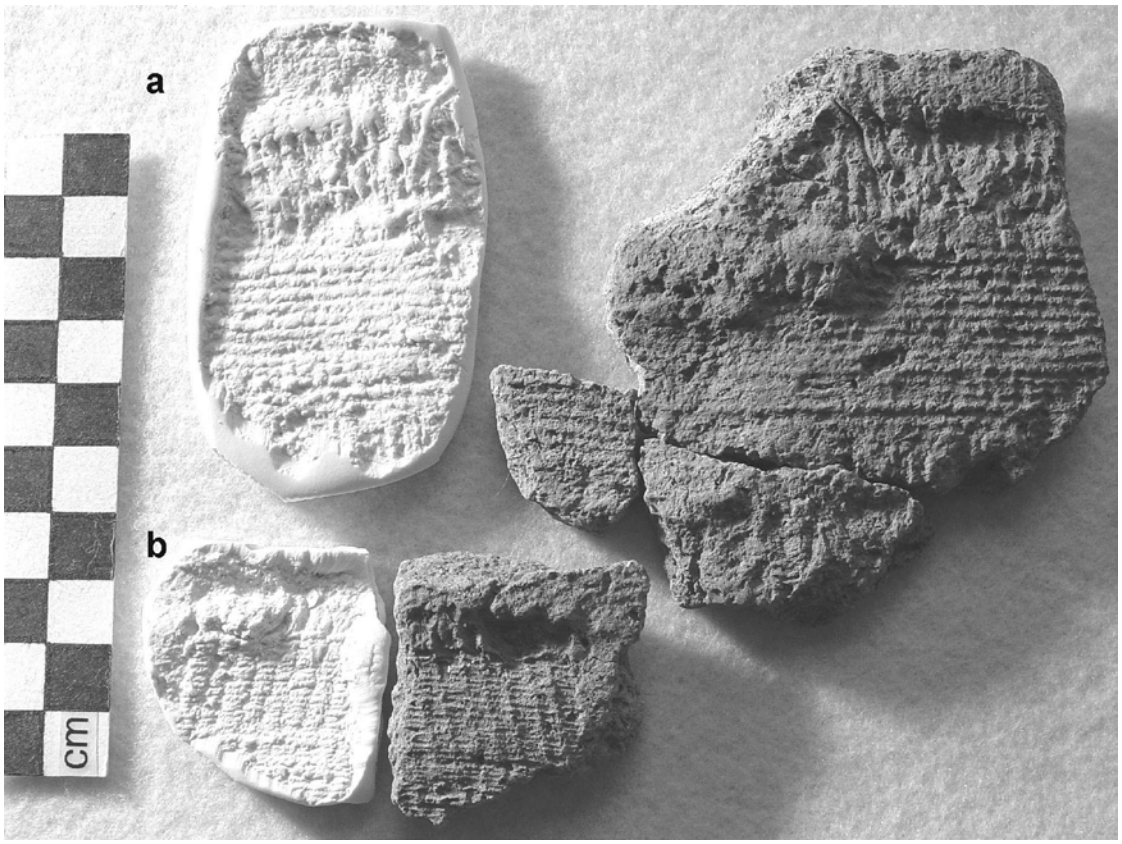

Figure 139. Multiple textile structures on a single fabric: (a) ID#15, lower middle is TS# 13a - compact alternate pair twining, uppermost is TS# 13b – compact twining over nonalternating paired warps; (b) ID# 11, lower portion is TS# 9a – compact twining over nonalternating paired warps, uppermost is TS# 9b – compact alternate pair twining. Both examples contain an undetermined transition structure, which in ID# 15 appears above and below the compact alternate pair twining

Alternate pair twining alone, APT, comprises 37% (n=10) of the total identified textile structures (n=27). The total of all alternate pair twining variations - APT, CAPT, APTgw - accounts for 67% (n=18) of the textile structures. Plain twining alone at 19% (n=5), plain twining combined with transposed interlinked warps at 7% (n=2), and compact twining over nonalternating paired warps at 7% (n=2) make up the remainder. Table 38 gives the textile structure count by provenance.

Table 38. Textile Structure Count by Provenance.

Textile Structure► / Provenance ▼	PT	PTtiw	CTpw	APT	CAPT	APTgw	Prov. Total
General collection	-	2	-	3	1	-	6
Structure 1	-	-	-	-	-	1	1
Feature 9	-	-	-	-	-	1	1
Feature 10	-	-	1	-	1	-	2
Feature 16	1	-	-	-	-	-	1
Feature 18	-	-	-	1	-	-	1
Feature 39	-	-	1	1	1	-	3
Feature 60	-	-	-	1	-	-	1
Feature 62	1	-	-	-	-	-	1
Feature 70	-	-	-	1	-	-	1
Feature 74	-	-	-	1	-	-	1
Feature 75	2	-	-	-	1	-	3
Feature 78	1	-	-	-	-	-	1
Unknown feat. in parking area	-	-	-	1	-	-	1
Burial 14	-	-	-	-	1	-	1
Burial 65	-	-	-	-	1	-	1
Burial 84b	-	-	-	1	-	-	1
Total by textile structure	5	2	2	10	6	2	27

PT = Plain Twining alone; PTtiw = Plain Twining combined with transposed interlinked warps; CTpw = Compact twining over nonalternating paired warps; APT = Alternate Pair Twining alone; CAPT = Compact Alternate Pair Twining; APTgw = Alternate Pair Twining combined with grouped wefts.

Textile condition in 28 cases is as follows: 69% show no evidence of wear, 18% show missing weft elements, and 14% exhibit loose yarns, including one with all loose yarns and no identifiable textile structure (ID# 17).

There is one case of textile layering, ID# 29, TS# 21 (Figure 134a). Both layers are plain twining and the weft rows almost parallel.

Impressions occur on two disks (ID#s 12 and 29), and on ten rim sherds. Of the ten rim sherd impressions, only five exhibit measurable attributes.

Fabric counts range from 4.6 to 28, averaging 12.7. Fabric density ranges from 5.48 to 18, averaging 11.2. Other attribute ranges follow in the Table 39 summary. Table 40 contains all measurements, indices, and notations followed by abbreviations and formulas used in 40Wm210 textile analysis.

Table 39. Summary of Textile Attributes.

Attribute	Minimum	Mean	Maximum	# of Cases
Warp yarn diameter (in mm)	1	1.13	1.6	26
Weft yarn diameter (in mm)	.8	1.27	1.8	27
Average yarn diameter(mm)	.9	1.2	1.7	26
Weft row diameter (in mm)	1	1.55	2.2	27
Number of warp plies	2	2	2	24
Number of weft plies	2	2	2	27
Warp twist angle category	1	2.5	3	24
Warp elements per cm	3	6.41	8	27
Weft elements per cm	1.6	6.3	20	27
Weft rows per cm	.8	3.16	10	27
Fabric count	4.6	12.7	28	27
Warp density	4.2	6.96	8.4	26
Weft density	1.28	4.49	10	27
Fabric density	5.48	11.2	18	27
Fabric count index	1	3	5	27
Complexity index # 1	2	4.1	6	27
Complexity index # 2	4	6	8	26
Complexity index # 3	5	8.3	10	25

Consult Drooker (1992), Hoyal (1997), Kuttruff (1993), and Kuttruff and Kuttruff (1996) for further information on terminology and method of analysis. The 40Wm210 textile data will be added to information currently being compiled for Mississippian sites in the Middle Cumberland region (Hoyal 1996:43-47, 1998:273-277, 2001:351-369).

Table 40. Textile Attributes from Cast Analysis for 40WM210.

			FABRIC										WARP						WEFT						OTHER					
ID#	TS#	Provenience	FTS	FT SC	FT D	FT TA	FC	FCI	FCI #1	FCI #2	FCI #3	FD	Wp C	Wp Dm	Wp D	Wp Ply	Wp TD	Wp TA	Wt Rw	Wt RwDm	Wt D	Wt C	Wt Ydm	Wt Ply	AvY Dm	C oF	RWt Ag	RSh Thmx	RSh Thmn	STh
1	1	general collection	APT	1	S	2	9.2	2	3	5	7	7.92	6	1	6	2	S	2	1.6	1.2	1.92	3.2	1	2	1	3	75	14.4	7.72	8.35
2	*	general collection																										14.5	8.59	10.3
3	2	general collection	PTtiw	2	S	2	13	3	5	7	10	11.8	7	1	7	2	S	3	3	1.6	4.8	6	1.2	2	1.1	4	10	22.3	10.2	14.3
4	3	general collection	PTtiw	2	S	2	13	3	5	7	10	11.8	7	1	7	2	S	3	3	1.6	4.8	6	1.2	2	1.1	4				15
5	4	general collection	APT	1	S	3	12	3	4	6	9	11.6	8	1	8	2	S	3	2	1.8	3.6	4	1.4	2	1.2	4				12.2
6	5	general collection	APT	1	S	3	11.4	3	4	6	9	12.6	6	1.2	7.2	2	S	3	2.7	2	5.4	5.4	1.6	2	1.4	4				8.6
7	6	general collection	CAPT	1	S	3	16	4	5	7	10	13.6	8	1	8	2	S	3	4	1.4	5.6	8	1.2	2	1.1	4				7.3
8	7	structure 1	APTgw	2	S	2	11.6	3	5	7	9	10.7	7	1	7	2	S	2	2.3	1.6	3.68	4.6	1.4	2	1.2	3				13.7
9	8	feature 9	APTgw	2	S	2	10	3	5	7	9	9.6	6	1	6	2	S	2	2	1.8	3.6	4	1.4	2	1.2	4				12.9
10	*	feature 9																										19.7	6.62	7.95
11	9a	feature 10	CTpw	1	S	2	26	5	6	8	10	17.2	6	1.2	7.2	2	S	2	10	1	10	20	0.8	2	1	3				10.3
***	9b	***	CAPT	1	S	2	16	4	5	7	9	14.2	6	1.2	7.2	2	S	2	5	1.4	7	10	1.2	2	1.2	3				
12	10	feature 16	PT	1	S	2	5.6	1	2	4	7	6.54	3	1.4	4.2	2	S	3	1.3	1.8	2.34	2.6	1.4	2	1.4	1				12.4
13	11	feature 18	APT	1	S	2	8	2	3	5	8	8.4	5	1.2	6	2	S	3	1.5	1.6	2.4	3	1.4	2	1.3	4				11.7
14	12	feature 39	APT	1	S	3	11	3	4	6	9	10.4	8	1	8	2	S	3	1.5	1.6	2.4	3	1.4	2	1.2	4	60	15.4	9.39	9.57
15	13a	feature 39	CAPT	1	S	3	17.4	4	5	7	10	15.5	8	1	8	2	S	3	4.7	1.6	7.52	9.4	1.4	2	1.2	1				10.3
***	13b	***	CTpw	1	S	2	28	5	6	8	10	18	8	1	8	2	S	2	10	1	10	20	0.8	2	0.9	3				
16	14	feature 60	APT	1	S	3	9.6	2	3	5	8	10.5	7	1.2	8.4	2	S	3	1.3	1.6	2.08	2.6	1.2	2	1.2	4				10.1
17	*	feature 60																								1		17.1	7.56	9.15
18	15	feature 62	PT	1	S	3	13	1	2	4	7	10.6	7	1	7	2	S	3	3	1.2	3.6	6	1	2	1	4				7.21
19	16	feature 70	APT	1	S	2	8.4	2	3	5	7	10.4	5	1.4	7	2	S	2	1.7	2	3.4	3.4	1.6	2	1.5	4				8.5
20	16**	feature 70																												9.8
21	16**	feature 70																												9.3
22	16**	feature 70																												8.8
23	17	feature 74	APT	1	S	2	10	3	4	6	9	10	6	1.2	7.2	2	S	3	2	1.4	2.8	4	1.2	2	1.2	1				12.2
24	17**	feature 74																												13.7
25	18	feature 75	PT	1	S	3	8.4	2	3	5	6	9.38	5	1.4	7	2	S	1	1.7	1.4	2.38	3.4	1	2	1.2	4	140	13.1	11.6	12.1
26	*	feature 75																										18.3	7.72	11.4
27	19	feature 75	PT	1	S	3	10	3	4	6	8	8.4	6	1	6	2	S	2	2	1.2	2.4	4	1	2	1	4	55	14.1	eroded	

			FABRIC										WARP						WEFT						OTHER					
ID#	TS#	Provenience	FTS	FT SC	FT D	FT TA	FC	FCI	FCI #1	FCI #2	FCI #3	FD	Wp C	Wp Dm	Wp D	Wp Ply	Wp TD	Wp TA	Wt Rw	Wt RwDm	Wt D	Wt C	Wt Ydm	Wt Ply	AvY Dm	C oF	RWt Ag	RSh Thmx	RSh Thmn	STh
28	20*	feature 75	CAPT	1	S	2	18	4	5			15	8	1	8				5	1.4	7	10	1.2	2	1.1	4				9.5
29	21	feature 78	PT	1	S	2	4.6	1	2	4	5	5.48	3	1.4	4.2	2	S	1	0.8	1.6	1.28	1.6	1.4	2	1.4	4				15.5
30	22	unk. fea./parking	APT	1	S	3	11.6	3	4	6	9	11.2	8	1	8	2	S	3	1.8	1.8	3.24	3.6	1.6	2	1.3	4				9.14
31	*	unk. fea./parking																										14.3	eroded	
32	23*	burial 14	CAPT	1	S	3	15	4	5	6		13.4	7	1	7				4	1.6	6.4	8	1.4	2	1.2	4				7.1
33	24*	burial 65	CAPT	1	S	3	20	5	6	7		8.4	8						6	1.4	8.4	12	1	2		4				10.1
34	25	burial 84B	APT	1	S	2	7	2	3	5	7	9.7	4	1.6	6.4	2	SZ	2	1.5	2.2	3.3	3	1.8	2	1.7	4				5
		MIN				2	4.6	1	2	4	5	5.48	3	1	4.2	2		1	0.8	1	1.28	1.6	0.8	2	0.9			13.1	6.62	5
		MED					11.6	3	4	6	9	10.6	7	1	7	2		3	2	1.6	3.6	4	1.2	2	1.2			14.9	8.16	10.1
		AVE					12.7	3	4.1	6	8.4	11.2	6.41	1.13	6.96	2		2.5	3.16	1.55	4.49	6.3	1.27	2	1.2			16.3	8.68	10.4
		MAX				3	28	5	6	8	10	18	8	1.6	8.4	2		3	10	2.2	10	20	1.8	2	1.7			22.3	11.6	15.5
		S D					5.55					3.03	1.5	0.18	1.08			0.7	2.39	0.29	2.47	4.8	0.25		0.2			2.97	1.63	2.49
		total	27	27	27	27	27	27	27	26	24	27	27	26	26	24	24	24	27	27	27	27	27	27	26	28	5	10	8	32

* empty cells in these rows indicate inaccessibilty of attributes due to compact structure, faint or small impressions, eroded surface; ID#s 2, 10, 17, 26, & 31 yielded no textile data.

** empty cells in these rows indicate cases of impressions from a structure already included in the table (i.e. sherds that do not cross-mend, but are undoubtedly from the same structure & vessel).

*** multiple textile structures on a single fabric - ID#s 11 & 15 display 3 textile structures on a single fabric, (only 2 discernable on each sherd - TS#9a & 9b on ID# 11 and TS#13a & 13b on ID#15).

CASE

ID# = sherd #
TS# = textile structure #

FABRIC

FTS = fabric/textile structure
FTSC = total structures combined, e.g. PT=1, APTgw=2
FTD = twining twist direction/slant (S, Z, or both-SZ)
FTTA = twining twist angle index
1 = 10º or less; 2 = 11º - 25º; 3 = 26º - 45º
FC = fabric count (WpC + WtC)
FCI = fabric count index
1 = FC 0 – 4.9; 2 = FC 5 – 9.9; 3 = FC 10 – 14.9, etc.
FCI #1 = modified complexity index #1 (FCI + FTSC)
FCI #2 = modified complexity index # 2
[FCI #1 + (WpPly + WtPly ÷ 2)]
FCI #3 = modified complexity index # 3 (FCI #2 + WpTA)
FD = fabric density (WpD + WtD)

WARP

WpC = warp count per centimeter
WpDm = warp diameter in millimeters
WpD = warp density (WpC x WpDm)
WpPly = number of warp plies
WpTD = warp twist direction
WpTA = warp twist angle index
1 = 10º or less; 2 = 11º - 25º;
3 = 26º - 45º; 4 = > 45º

WEFT

WtRw = weft rows per centimeter
WtRwDm = weft row diameter in mm.
WtD = weft density (WtRw x WtRwDm)
WtC = weft count (WtRw x # of twining elements, usually 2)
WtYdm = weft yarn diameter in mm.
WtPly = number of weft plies

OTHER

AvYDm = average yarn diameter in mm.
CoF = condition of fabric
1 = loose yarns
2 = broken or frayed yarn
3 = missing weft element
4 = no evidence of wear
RWtAg = angle of weft to rim in degrees (angle is determined from the sherd, not the cast)
RShThmx = maximum thickness of the sherd at the lip in mm.
RShThmn = minimum sherd thickness below the rim in mm.
STh = informal average of sherd thickness below the rim in mm.