THE MOSS-WRIGHT PARK
ARCHAEOLOGICAL PROJECT:
EXCAVATION OF SITE 40SU20,
GOODLETTSVILLE, TENNESSEE

Tennessee Department of Conservation
Division of Archaeology
Report of Investigations No. 5

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By:
Joseph L. Benthall
with contributions by:
L. Carl Kuttruff

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PREFACE

This report on the excavation and subsequent analysis and interpretation of site 40SU20 is the result of archaeological investigations conducted by the Tennessee Division of Archaeology during the summer of 1977.

Any archaeological research project invariably involves the efforts and assistance of numerous individuals, institutions and agencies, and site 40SU20 was no exception.

The Division of Archaeology would, at this time, wish to extend its sincere appreciation to the City of Goodlettsville for its cooperation and financial support in the sum of $6300.00 that made possible the successful completion of the project.

Appreciation is also extended to the young men and women whose excellent skills and diligence helped to make the project a success.

Workers for the project were obtained through the Comprehensive Employment Training Act (C.E.T.A.) program administered through the Tennessee Department of Conservation. Workers employed though this program include Stephanie Thompson, Doug Paschall, John Story, John Kell, Lucinda Steen, David Lockmiller, William Fitzhugh, and Joe Kell.

The author wishes to extend special appreciation to Mrs. Jane Hinshaw who served as project archaeologist and to Linda Ries who served as field assistant. Special appreciation is also extended to Dr. Carl Kuttruff, principal investigator. Division of Archaeology staff, for providing valuable advisory illustrations in this report, for proofreading of the manuscript and providing useful suggestions regarding its contents. Appreciation is also extended to Mrs. Virginia Atkins, secretary at Fort Loudoun State Historic Area, for typing of the manuscript, and to Emanuel Breitburg for his analysis of the skeletal material.
INTRODUCTION

The site 40SU20 consists of a Mississippian stone box cemetery mound approximately 25 meters in diameter and one-half meter high located on the edge of a terrace formation above Mansker Creek in the northeastern part of the Goodlettsville City Park (Figures 1-4). The mound was originally located and tested in a cultural resource survey of the park during the fall of 1976. That work definitely established that the feature was a stone box grave mound and that there may have been some associated village materials in the surrounding area (Hinshaw and McCulloch 1976:5-10). The second stage of the community park development called for the construction of four baseball diamonds and a concession stand over the area where the mound was located. It was, therefore, recommended that the mound be completely excavated in order to recover as much information as possible before destruction.

From all appearances, the mound did not seem to have been previously disturbed (this was contradicted by the excavations), and the tests indicated that the bone preservation was good. It was believed that the excavation of this mound would, therefore, provide excellent comparative information and materials for other similar and related sites in the Nashville area. Although thousands of these stone box graves have been excavated since the 19th century, controlled scientific excavations and data recording have been rare exceptions. Exceptions include the West Site in Bell's Bend of the Cumberland (Dowd 1972), the Ganier Site on the Cumberland River (Broster 1972), the Arnold Site on the Harpeth River (Ferguson 1972), and the Noel Cemetery Site on Granny White Pike in Nashville (Benthall 1983).

The potential for good bone preservation, the chance to completely excavate a mound of this nature, and the possibility of recovering a complete population unit would provide the osteological materials necessary for a study of Mississippian physical characteristics. A study of an entire Mississippian cemetery could also produce information necessary for the determination of certain status differences and social organizational factors that were present within Mississippian society and reflected in their burial practices. Minimally, the excavation of this material would preserve part of the aboriginal history of the area, information which would be lost through construction activities.

Excavations began in June 1977 and continued through August 1977. Laboratory processing of the materials was done in the fall and winter of 1977 and 1978, and the skeletal analysis was done during that time. Completion of the artifact analysis was done during the fall and winter of 1985-86.
FIGURE 1. Site 40SU20 location and vicinity.
FIGURE 3. Aerial view of site 40SU20 and excavated cemetery.

Environmental Setting

Physiography and Geology

Geologically, Sumner County is located within the Central Basin section of the Interior Low Plateaus Physiographic Province (Fenneman 1938). The Central Basin is a nearly elliptical area enclosed by the Highland Rim and is characterized by gently rolling to hilly terrain, with some nearly level areas, and by meandering, low-gradient streams. It was formed by the erosion of the Nashville Dome, the structural center of which coincides with the geographic center of the basin located near the present city of Murfreesboro (Miller 1974).

This erosion has been facilitated by the relatively quick removal by solution of the limestone exposed after the more resistant overlying siliceous rocks were breached. Solutional removal of calcium carbonate by percolating ground water is most rapid along joints, the usually near-vertical cracks created by stresses in the limestone. These joints also appear to have controlled the pattern or lineation of many of the stream segments in the Central Basin (Miller 1974).

The outer areas and major drainage which divide the basin are characterized by hilly terrain. There are numerous hills capped by siliceous rocks, some nearly 1300 feet in elevation. The average elevation of the outer part of the Central Basin is approximately 750 feet (Miller 1974). Within the overall Central Basin is an area of flat to low hill topography which is identified as the inner basin (DeSelm 1959; Miller 1974).

The major streams within the Central Basin include the Cumberland, Stones, Harpeth, Duck and Elk Rivers.

The primary geologic deposits available for prehistoric utilization along the Cumberland were predominantly alluvial deposits including clay and silt with lenses of chert and quartz gravel. These sands and clays would have been important to prehistoric pottery traditions of the region. Secondary geologic deposits in the bottoms would have included gravel and point bar deposits along the Cumberland, most likely at the mouths of tributary creeks. Such deposits would probably have contained materials from most of the lithologic systems occurring upstream. Primary geologic deposits that make up the local ridges and hills were also available in scattered outcrops for prehistoric utilization. These deposits included primarily the cherts associated with the Warsaw and St. Louis limestone as well as with the Fort Payne Formation. Dover chert, mined intensively at site 40SW64 in Stewart County, was also widely utilized.

Soils

The soil at site 40SU20 consists of the Armour silt loam series which is generally found on nearly level to sloping stream terraces, fans and gently to strongly sloping foot slopes. The soil formed in approximately 2 to 4 feet of silty alluvium or loess underlain by
alluvium or residuum of phosphatic limestone. The soil is dark brown silt loam to a depth of 17 inches. Beneath this to a depth of 75 inches it is silty clay loam which is brown in the upper part, reddish-brown in the middle part and mottled reddish-brown, strong brown and lighter yellowish-brown in the lower part. Slopes range from 0-20 percent.

The Armour series is a member of the fine silty, mixed, thermic family of ultic hapludalfs. The dark brown silt loams are included in soil horizon A, and brown to reddish brown silty clay in horizon B. Solum thickness ranges from 40-80 inches, while depth to limestone bedrock ranges from 4-10 feet. Each horizon is medium to strongly acidic except the surface layer which is less acidic where limed (Prater n.d.).

Climate

The Interior Low Plateaus Province, which includes the Central Basin, lies in the humid Mesothermal Climatic region of Koppen (Trewartha 1968). This is a warm, temperate rainy climate that covers the entire southeastern section of the United States. In the Interior Low Plateaus, however, the continental air masses produce greater winter and summer temperature extremes than occur along the Atlantic and Gulf coasts where temperatures are modified by the maritime influence (Quarterman and Powell 1978:24). In a humid mesothermal climate, precipitation is considered to be well distributed through the year, yet Middle Tennessee, Northern Alabama, as well as the southern portions of Kentucky and Illinois, lie in an area that has a greater amount of rainfall in the cold season than in the warm season (Trewartha 1968).

Annual mean temperatures decrease along a south to north gradient from 60-65° F. in Northern Alabama and Southern Tennessee to 55° F. in Southern Indiana and Illinois. Temperature differences along this gradient are more marked in winter than in summer, which has a bearing on the northward limits of ranges, especially of biennial and perennial species that are exposed to winter temperatures (Quarterman and Powell 1978:74).

Sumner County is generally favored with relatively mild winters and warm summers. Weather sometimes differs in various portions of the county, but altitude differences are not large enough to cause significant differences in the climate.

Flora

In consideration of the floral resources, Quarterman and Powell (1978) have concluded that the original vegetation on the good soils of the Central Basin must have been magnificent mixed deciduous forests. Killebrew et al. (1874) speak of yellow poplar trees six to seven feet in diameter, and of black walnut, maple, hickory, elm and oak in great abundance and of enormous size. The principal timber trees of the region were ash, poplar, black walnut, beech, hickory, maple and cedar. Trees that were abundant in the original forest consistently include, in addition, linden, buckeye, sassafras, hackberry, coffee tree
and sweet gum (Sargent 1884; Safford 1884; Killebrew et al. 1874; Killebrew 1898). Red cedar forests grew so exclusively upon Lebanon limestone that the boundaries of the limestone outcrop could be distinguished by those forests (Killebrew et al. 1874).

The tops of the Highland Rim outliers within the Central Basin are dominated by oak-hickory forests, with chestnut-oak and pignut hickory assuming almost complete dominance on the highest narrow ridges. These are occasionally accompanied by post oak and blackjack oak, with mountain laurel, sparkleberry and sourwood in the lower forest layers. North-facing slopes of such hills support a mixed mesophytic forest dominated by a mixture of species that include sweet buckeye, sugar maple, white oak, red oak, chinquapin oak, basswood, shagbark hickory, pignut hickory, beech, white ash and blue ash. South-facing slopes have a greater number of oak and hickory species and all but sweet buckeye and basswood from the above list. Bur oak, black walnut and tulip poplar are found on the low slopes and benches. Yellowwood occurs sparingly in all rich woods, and spring flowers are especially abundant in all forests (Quarterman and Powell 1978).

Stream margins and flood-plains are dominated by willow, box elder, silver maple, cottonwood and sycamore (Quarterman and Powell 1978).

Many smaller varieties of plants, shrubs and low growing floral species useful to prehistoric peoples were also found in the area.

Fauna

The forests and riverine environments in the vicinity of site 40SU20 supported a variety of animal life utilized by the Indians.

Faunal populations within the area would have included most of the species indigenous to the mixed deciduous forests of the southeastern United States. The most commonly known mammalian species included white-tailed deer, elk, black bear, bobcat, cougar, beaver, otter, muskrat, weasel, mink, skunk, raccoon, opossum, cottontail rabbit, squirrel, groundhog, wolf and red fox. Additionally, there were many varieties of small rodents, such as mice, rats and chipmunks.

There were also many varieties of birds, of which the most commonly known species considered by the Indians as a food source include wild turkey, Canada goose, passenger pigeon, bobwhite and several varieties of duck. Other common species not necessarily considered as a potential food source include owls, crows and woodpeckers, as well as many smaller species. Several of these may have been taken for their plumage.

Amphibians and reptiles were also found in great numbers, but it is unlikely that reptiles were utilized as a food source. The occurrence of the shells and other bony parts of turtles at Noel Cemetery (40DV3), as well as other local sites, lends support to the premise that turtles served as a supplement to the aboriginal diet.
Large numbers and varieties of fish and mollusks were also available to the Indians. Such fish and mollusks were to be found in the Cumberland River and its smaller stream tributaries.

Site Location and Description

Site 40SU20, a low lying Mississippian burial mound, is located along a bench or terrace approximately 300 meters northwest of the confluence of Madison and Mansker Creeks, and approximately 2 miles northwest of the confluence of Mansker Creek and the Cumberland River. The Moss-Wright Park property on which the site is located consists of an 88.6 acre tract located in Sumner County and bounded on the south by Mansker Creek, on the north by Jackson Road, on the west by the Goodlettsville city limits and on the east by the Peter Dudney farm (Hinshaw and McColloch 1976:2) (Figures 1 and 2). Approximately 600 meters west of site 40SU20 is the Bowen-Campbell house, constructed ca. 1788 and identified as the earliest standing historic structure in Sumner County.

The site is located 36°19'14" north latitude and 86°41'04" west longitude (U. S. Department of Interior Geological Survey Map, Goodlettsville, Tennessee Quadrangle).

During the Hinshaw-McColloch survey of 1976, the site was described as a low, circular mound approximately 25 meters in diameter and 50 centimeters in height (Hinshaw and McColloch 1976:5).

Surface examination and excavation of several 20 centimeter test pits disclosed several stone box burials and human skeletal remains encompassing an area of approximately 200 square meters. Although extensive shovel testing was done in an attempt to locate the principal village area, these efforts were unsuccessful. However, a single pit feature located 18 meters southwest of the burial mound, as well as various artifacts, provided evidence of earlier Archaic and Woodland habitation of the site (Hinshaw and McColloch 1976:8-10).

Field Investigation

Research Objectives

The archaeological investigation of site 40SU20 during the summer of 1977 was carried out in reference to the proposed construction of the Moss-Wright Recreational Park by the City of Goodlettsville. The existence of the site was first brought to the attention of the Tennessee Division of Archaeology through a survey of the proposed park property in November, 1976 by Jane Hinshaw, consulting archaeologist.

Faced with the destruction of the site by proposed grading and subsequent construction of four baseball fields, it was decided that
excavation be conducted since the site consisted of a low-lying Mississippian burial mound, a comparatively rare feature in Middle Tennessee.

Since the proposed construction of the four baseball fields would inflict severe damage and destruction of the mound, the 1977 excavations were conducted to:

1. Gain greater insight and understanding of Mississippian settlement and burial patterns in the Nashville Basin.

2. Prevent loss of archaeological data pertaining to the prehistory of the Cumberland Valley of Middle Tennessee.

3. Establish temporal placement (C-14 dates), if possible, for the mound and related village.

Methodology

Standard archaeological field methodology was employed in the excavation of this site. A datum point for a transit station was established and tied into the property boundaries. A grid system was established, oriented magnetic north, and staked. The North 0/East 0 point was placed to the southwest of the area to be excavated, so that all grid readings in the excavated area were north and east of that point. All burials, features, and artifactual materials were recorded in reference to a 2 meter grid square and bagged and subsequently labeled with that unit number, for example, North 42/East 52. Burials were numbered sequentially in the order in which they were excavated.

Excavations were initially carried out by using a smooth-bucket backhoe to remove the topsoil to the level of the top of the stone box graves. One quarter of the area was done at a time, and cleared outward from the center of the mound to a point where it was believed that all stone boxes had been exposed. The limits of the excavations are shown in Figure 5. One meter wide balks were left in place along the North 50 line and the East 38 line. After exposure by the backhoe, the stone boxes were then cleared and defined by hand with shovels and trowels. After definition, capstones, if still in place, were removed and the contents of the boxes were hand excavated with small tools. The skeletal material and any associated artifacts were cleared and left in place. Burial record forms were completed, the grave plotted on the site map, and black and white photographs and color slides were then taken. The skeletal materials and any associated material was then removed and bagged or boxed and appropriately numbered for transport to the lab. At the Division of Archaeology laboratory all the skeletal material and artifacts were cleaned, labeled and analyzed.
FIGURE 5. Excavation boundaries and localities of stone box burials.
The 96 boxes and 106 burials exposed and recorded at site 40SU20 were of the Cumberland stone box variety found at Mississippian sites in the Nashville Basin and adjacent regions. The box was generally constructed by lining the floors, sides and ends of the burial pit with thin limestone slabs, thereby forming a rectangular stone box whose length, width and depth were determined by the height and width of the body placed within it. Limestone slabs were also used to cap or seal the boxes. Although most stone box floors were paved with limestone slabs, boxes with floors composed of pottery sherds have also been observed at 40SU20 as well as other sites. The floors of several boxes have no floor paving.

It has been observed that stone-lined burial pits are not necessarily confined to sites of the Mississippian cultural tradition. Stone burial boxes, similar in both construction materials and design have been recorded at the Watkins burial mound, a Woodland site in Logan County, Kentucky (Ferguson 1972:15). However, the Woodland forms differ from those at Mississippian sites in that they are larger or more spacious in proportion to the size of the interred bodies (Ferguson 1972:15). Mississippian burial boxes were almost form-fitting in construction, as most are wide at the head and more narrow at the feet.

Although the project excavations were confined to the mound-cemetery, it is presumed that the related village habitation area was somewhere within the vicinity. It is believed that this area was located on privately owned land adjoining the Moss-Wright Park property.

Among the 106 burials excavated and recorded, only 19 of these were reasonably preserved and complete, the remaining 87 being fragmentary and disturbed. There was considerable evidence that many burials had been disturbed by diggers or relic collectors in the years preceding the onset of the 1977 project. This fact is verified by the absence of many of the box capstones, and disarticulation and rearrangement of skeletal remains. It is also probable that many of the disturbed burials had previously contained associated artifacts. Burials 9, 19 and 44 were the only ones containing associated grave goods.

Although no particular pattern was observed with the placement and locality of the boxes, several of these occur at greater depths in the mound than the others. Those occurring at greater depths include Boxes 44, 66, 78, 79, 80, 90 and 91. The intrusion of Boxes 3, 9, 45 and 82 into those of 80, 79, 66 and 82 indicates the latter had been buried at an earlier date.

Of the total burials recorded, it is reasonably certain that at least 82 of these were extended at the time of interment. However, Burials 43 and 94 were flexed and the remaining 22 indeterminate due to disturbance or poor preservation. The extended burial position is the
dominant form at all Mississippian sites in Middle Tennessee and closely adjoining areas. However, examination of the published literature and records regarding Mississippian Dallas phase sites in eastern Tennessee indicates that the vast majority of burials on such sites were flexed. Stone lined burial pits are also virtually absent in this area. Sites from which comparative data were derived include Hiwassee Island (Lewis and Kneberg 1946:179), Tomotley and Tuskegee on the Little Tennessee River (Guthe and Bristline 1978:83-87) and sites in the Norris Basin (Webb 1938).

Of the 106 burials excavated and recorded at 40SU20, 36 of these or approximately 34% are included within the infant-child age categories. The following table lists the age categories as well as the numbers and percentages within each.

### Infant - Child

<table>
<thead>
<tr>
<th>Age</th>
<th>No.</th>
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</thead>
<tbody>
<tr>
<td>Newborn</td>
<td>1</td>
<td>2.77</td>
</tr>
<tr>
<td>1-6 Mo.</td>
<td>3</td>
<td>8.33</td>
</tr>
<tr>
<td>7-8 Mo.</td>
<td>1</td>
<td>2.77</td>
</tr>
<tr>
<td>1-3 Yrs.</td>
<td>9</td>
<td>25.00</td>
</tr>
<tr>
<td>3.5-6 Yrs.</td>
<td>19</td>
<td>52.77</td>
</tr>
<tr>
<td>8-12 Yrs.</td>
<td>3</td>
<td>8.33</td>
</tr>
<tr>
<td>Totals</td>
<td>36</td>
<td>99.97</td>
</tr>
</tbody>
</table>

Among the remaining seventy burials examined, thirty-four were males, twenty-nine females and seventeen indeterminate. Of the fifty-three burials whose age and sex were determined, it is of interest that the death rate was highest for both males and females within the 30-35 year age category. The smallest number of deaths among females occurred within the 25-30 and 40-45 year age categories, while among males the lowest percentage of deaths was in the 35-40 year range. The age categories as well as the numbers and percentages of deaths within each for males and females are presented as follows:

### Males

<table>
<thead>
<tr>
<th>Age</th>
<th>No.</th>
<th>Percent of Adults</th>
</tr>
</thead>
<tbody>
<tr>
<td>18-25</td>
<td>3</td>
<td>5.47</td>
</tr>
<tr>
<td>25-30</td>
<td>2</td>
<td>3.75</td>
</tr>
<tr>
<td>30-35</td>
<td>12</td>
<td>22.64</td>
</tr>
<tr>
<td>35-40</td>
<td>1</td>
<td>1.88</td>
</tr>
<tr>
<td>40-45</td>
<td>2</td>
<td>3.75</td>
</tr>
<tr>
<td>45-50</td>
<td>4</td>
<td>7.54</td>
</tr>
<tr>
<td>Totals</td>
<td>24</td>
<td>45.03</td>
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</table>
Females

<table>
<thead>
<tr>
<th>Age</th>
<th>No.</th>
<th>Percent of Adults</th>
</tr>
</thead>
<tbody>
<tr>
<td>18-25</td>
<td>3</td>
<td>5.47</td>
</tr>
<tr>
<td>25-30</td>
<td>1</td>
<td>1.88</td>
</tr>
<tr>
<td>30-35</td>
<td>13</td>
<td>24.52</td>
</tr>
<tr>
<td>35-40</td>
<td>5</td>
<td>9.43</td>
</tr>
<tr>
<td>40-45</td>
<td>1</td>
<td>1.88</td>
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<tr>
<td>45-50</td>
<td>6</td>
<td>11.32</td>
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<tr>
<td>Totals</td>
<td>29</td>
<td>54.50</td>
</tr>
<tr>
<td></td>
<td>53</td>
<td>99.53</td>
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</table>

Although no pathological disorders were noted within the infant-child age categories, a relatively high number of such is noted among the adult population. Of the fifty-three identified burials, two males and seven females exhibited evidence of osteomyelitis or periostitis. Evidence of varying stages of arthritis was also seen in the skeletal remains of ten females and eleven males. The greatest percentage of osteomyelitis-periostitis noted in both males and females occurred within the 30-35 year age category. Another pathological disorder identified as abnormal cranial thickening was noted in one male and one female burial. It is also of interest that the highest incidence of arthritic disorders occurred among males 30-35 years of age. An almost equal number of females also suffered from the disorder. The various burials exhibiting pathological disorders are presented as follows:

<table>
<thead>
<tr>
<th>Osteomyelitis-Periostitis</th>
<th>Arthritis</th>
<th>Cranial Thickening</th>
</tr>
</thead>
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</table>
It is interesting that an almost equal number of males and females had arthritic developments of varying degrees. Although causes of this disease are not fully known, the individual's age, body "wear and tear," exposure to the natural elements, and the nature of the environment have been considered as contributing factors. Heredity, a few instances of bone trauma, certain diseases, and dietary disturbances have also been considered (Brothwell 1965:143). The high percentage of arthritis among 30-35 year old males is perhaps activity related.

Prior to and during excavations at 40SU20, it was hoped that the cemetery might produce evidence for ranked social organization and craft specialization, which might have existed in the related village. However, the excavation provided no evidence for such organization, which is relatively common at other Mississippian sites. Excavations at the Averbuch Site (40DV60) in Nashville also produced no evidence for ranked social organization or craft specialization (Klippel 1984:1.14.4).

During surveys of the Cumberland and other related river systems in Middle Tennessee, Jolley (1983) proposed a hierarchical settlement pattern for Mississippian sites in the Cumberland River drainage near Nashville. Here thirty sites with platform mounds were identified as "civic-ceremonial centers." The locations of these mound centers are tentatively correlated with trade routes and salt production within the area (Klippel 1984:1.14.4). Of interest is the fact that sites without platform mounds such as Averbuch and 40SU20 are not included as civil-ceremonial centers.

In his analysis of Moundville phase sites in the Black Warrior River drainage in Alabama, Peebles (1978) has suggested that ranked status is relatively obvious at ceremonial centers but not at outlying villages that are part of the same Mississippian Period settlement hierarchy (Klippel 1984:1.14.4). Site 40SU20 can, therefore, be classified as an outlying village related to the more prominent mound ceremonial centers in the area.

Burial polarity of the 106 burials at 40SU20 shows that 26 of these were oriented toward the East, one North, one South, and 41 to the West. Polarity of the remaining 38 burials was indeterminate due to disturbance or poor preservation. Of those oriented toward the East, 10 were female, 3 male, 1 infant and 12 children. There were an additional 13 burials that were oriented to the East, but the sex of those individuals is unknown. Of those individuals who were oriented toward the West, 8 were female, 16 male, 10 children and 3 infants. Additionally, the sex of 15 individuals oriented toward the West is unknown. Of the remaining ten burials, neither polarity nor sex is presently known. There was also a single adult male oriented to the South and a single one toward the North. It is of interest that the largest percentage of the female burials at 40SU20 were oriented toward the East and the vast majority of males toward the West.

All the above data are presented in Table 1. while a description of each burial and stone box along with comments is as follows.
<table>
<thead>
<tr>
<th>Burial</th>
<th>Position</th>
<th>Orientation</th>
<th>Preservation</th>
<th>Age</th>
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Burial 1

Location: Square N50E34
Box Description: Length: 66cm; Width: 39cm; Depth: 20cm; Floor: Stone
Individuality: Single interment
Demography: Age: 3.5 yrs.; Sex: Undetermined; Pathology: None observed
Preservation: Poor
Articulation: Disarticulated
Position: Undetermined
Orientation: 116°, head to East
Grave Goods: None
Comment: Box fill contained 2 shell-tempered plain sherds and 9 chert flakes.

Burial 2

Location: Square N50E34
Box Description: Length: 94cm; Width: 40cm; Depth: 20cm; Floor: Stone
Individuality: Single interment
Demography: Age: 2 yrs.; Sex: Undetermined; Pathology: None observed
Preservation: Poor
Articulation: Disarticulated, fragmentary
Position: Undetermined
Orientation: Box 100°, head to East
Grave Goods: None
Comment: Box fill contained 1 shell-tempered plain sherd, 7 flakes and 1 biface. Burial previously disturbed.

Burial 3

Location: Square N50E36
Box Description: Length: 175cm; Width: 57cm; Depth: 17cm; Floor: Earth
Individuality: Single interment
Demography: Age: 50+ yrs; Sex: Female; Pathology: Arthritic lipping of vertebrae
Preservation: Poor
Articulation: Disarticulated and scattered bone fragments
Position: Probably extended
Orientation: Box 300°, head of burial to West
Grave Goods: None
Comment: Burial previously disturbed by relic collectors; skeleton is fragmentary. Box fill contained 31 flakes, 1 utilized flake, 1 triangular (Madison) projectile point, 1 biface. Burial Box 3 was partially intrusive into Box 80.
Burial 4

Location: Square N50E38
Box Description: Length: 168cm; Width: 50cm; Depth: 16cm;
Floor: Partially paved with stone slabs
Individuality: Single interment
Demography: Age: 35+ yrs.; Sex: Female; Pathology:
Extensive arthritic lipping of lumbar vertebrae, angulation of body
Preservation: Poor; disturbed
Articulation: Disarticulated and scattered skeletal fragments
Position: Probably extended
Orientation: Box 112°, head of burial to East
Grave Goods: None
Comment: Burial previously disturbed by relic collectors.
Box fill contained 7 shell-tempered plain sherds, 14 flakes and 1 biface.

Burial 5

Location: Square N50E40
Box Description: Length: 170cm; Width: 40cm; Depth: 8cm;
Floor: Stone slabs; Capstones: 0
Individuality: Single interment
Demography: Age: 40+ yrs; Sex: Female; Pathology: None noted
Preservation: Poor; disturbed
Articulation: Disarticulated bone fragments
Position: Probably extended
Orientation: Box 249°, head of burial to West
Grave Goods: 1 elk tibia tarsal, 1 bone needle fragment
Comment: Burial previously disturbed by relic collectors.
Box fill contained 7 shell-tempered plain sherds, 44 chert flakes, 3 utilized flakes, 1 projectile point (stemmed), 1 spherical stone ball and 1 fragment of red ochre.

Burial 6

Location: Square N52E28
Box Description: Length: 180cm; Width: 40cm; Depth: 14cm;
Floor: Stone slabs; Capstones: 0
Individuality: Single interment
Demography: Age: 35+ yrs.; Sex: Male; Pathology: Some arthritic lipping of iliac crest, as well as severe osteomyelitis or periostitis of both femurs and right tibia
Preservation: Poor; disturbed
Articulation: Disarticulated bone fragments
Position: Probably extended
Orientation: Box 60°, head of burial orientation unknown due to burial disturbance.
Grave Goods: None
Comment: Burial previously disturbed by relic collectors.
Box fill contained 2 shell-tempered plain sherds, 17 flakes and 2 bifaces.

Burial 7

Location: Square N50E50
Box Description: Length: 205cm; Width: 44cm; Depth: Unknown; Floor: Earth; Capstones: 0
Indiviuduality: Single interment
Demography: Age: 35-40 yrs; Sex: Male; Pathology: Slight arthritic lipping of lumbar vertebrae
Preservation: Poor; but skeleton reasonably complete
Articulation: Articulated
Position: Extended
Orientation: Box 266°, head of burial to South
Grave Goods: None
Comment: Box fill contained 2 shell-tempered plain sherds, 17 flakes and 2 bifaces.

Burial 8

Location: Square N42E48
Box Description: Length: 108cm; Width: 35cm; Depth: 8cm; Floor: Stone slabs; Capstones: 0
Indiviuduality: Single interment
Demography: Age: 21-25 yrs; Sex: Male; Pathology: Pathological cranial thickening
Preservation: Poor; skeleton reasonably complete, but many parts broken
Articulation: Articulated
Position: On back with legs folded on chest
Orientation: Box 80°, head of burial to East
Grave Goods: None
Comment: Box fill contained 1 shell-tempered plain sherd and 1 crinoid segment possibly used as a bead.

Burials 9-9A

Location: Squares N50E36 and N52E36
Box Description: Length: 180cm; Width: 50cm; Depth: 18cm; Floor: Stone slabs; Capstones: 0
Indiviuduality: Two interments
Demography: (B-9) Age: 6 yrs; Sex: Not known; Pathology: None noted. (B-9A) Age: Not known; Sex: Male; Pathology: None noted
Preservation: Poor; both skeletons fragmentary and incomplete
Articulation: Both skeletons disarticulated
Position: (B-9) not known; (B-9A) probably extended
Orientation: Box 112-292°, head orientations of B-9 and B-9A not known due to disturbance and poor preservation.
Grave Goods: 11 Madison triangular projectile points associated with Burial 9, but scattered throughout the box fill.
Comment: Burials 9 and 9A interred in the same box. Box fill contained 17 shell-tempered plain sherds, 32 flakes, 1 utilized flake and 1 biface. Burial 9 box was partially intrusive into Burial Box 79.

Burial 10
Location: Squares N44E42 and N44E40
Box Description: Length: 180cm; Width: 45cm; Depth: 24cm; Floor: Stone slabs; Capstones: 0
Individuality: Single interment
Demography: Age: 40+ yrs.; Sex Female; Pathology Arthritic lipping of lumbar vertebrae, osteomyelitis or periostitis of both femurs and tibia
Preservation: Poor; skeleton fragmentary and incomplete.
Articulation: Disarticulated
Position: Probably extended
Orientation: Box 114-294°, head of burial orientation not known due to fragmentary and disturbed condition of burial.
Grave Goods: None
Comment: Box fill contained 23 chert flakes and 1 crinoid section possibly used as a bead.

Burial 11
Location: Squares N44E40 and N44E38
Box Description: Length: 105cm; Width: 50cm; Depth: 18cm; Floor: Stone slabs; Capstones: 0
Individuality: Single interment
Demography: Age: 1.25 yrs; Sex: Unknown; Pathology: None observed
Preservation: Poor; skeleton fragmentary and incomplete
Articulation: Disarticulated
Position: Probably extended
Orientation: Box 96-276°, head orientation unknown due to disturbed condition of burial.
Grave Goods: None
Comment: Box fill contained 4 chert flakes. Burial disturbed by relic collectors.

Burial 12
Location: Square N44E48
Box Description: Length: 120cm; Width: 43cm; Depth: 19cm; Floor: Stone slabs; Capstones: 0
Individuality: Single interment
Demography: Age: 3 yrs; Sex: Unknown; Pathology: None observed
Burials 13-13A

Location: Square N50E28
Box Description: Length: 195cm; Width: 45cm; Depth: 21cm; Floor: Stone slabs; Capstones: 0
Individuality: Two interments (adult female and infant)
Demography: (B-13) Age 35-50 yrs; Sex Female; Pathology: Arthritic lipping of arm joints, vertebrae and ribs; fused iliac crest.
(B 13A) Age 2 yrs; Sex: Not determined; Pathology: None noted.
Preservation: Poor but Burial 13 reasonably complete.
Articulation: Burial 13 articulated; Burial 13A partially articulated
Position: Both burials extended
Orientation: Box 76°, head of Burial 13 to East. Head of Burial 13A to East
Grave Goods: None
Comment: Burial 13A was positioned between the legs of Burial 13. Box fill contained 2 shell-tempered plain sherds, 14 flakes, charcoal fragments and 1 snake vertebra.

Burial 14 (Figures 6 and 7)

Location: Squares N40E46 and N42E46
Box Description: Length: 170cm; Width: 90cm; Depth: 29cm; Floor: Earth; Capstones: 0
Individuality: Single interment
Demography: Age: 25-35 yrs; Sex Female; Pathology: Right femur exhibits pitting and bone resorption on the superior posterior surface and may indicate osteomyelitic development. Similar breakdown is also noted on the condyle posterior surface. An auxiliary foramen is present in the right ramus interior asperus. Left and right tibia exhibit osteomyelitis as well as the left and right humuri.
Preservation: Poor; but skeleton reasonably complete.
Articulation: Articulated
Position: Extended
Orientation: Box 293°, head of burial to West
Grave Goods: None

FIGURE 7. Closeup of Burial 14 showing turtle carapace in situ.
Comment: Box fill contained 4 flakes, 1 biface and 1 turtle carapace.

Burial 15-15A

Location: Squares N38E42 and N38E44
Box Description: Length: 210cm; Width: 45cm; Depth: 16cm; Floor: Stone slabs and shell-tempered sherds; Capstones: 0
Individuality: Two interments
Demography: (B-15) Age: 35 yrs; Sex: Male; Pathology: None noted.  
(B-15A) Age: 35 yrs; Sex: Female; Pathology: Abscessing of dentition and evidence of bone resorption.
Preservation: Poor; both skeletons scattered and fragmentary.
Articulation: Articulated
Position: Probably extended
Orientation: Box 268°, heads of both burials to West
Grave Goods: None
Comment: Box fill contained 5 shell-tempered plain sherds, 6 flakes and 1 biface.

Burial 16

Location: Square N40E50
Box Description: Length: 90cm; Width: 25cm; Depth: Not known; Floor: Stone slabs; Capstones: 0
Individuality: Single interment
Demography: Age: 5 yrs; Sex: Unknown; Pathology: None noted
Preservation: Poor; fragmentary
Articulation: Disarticulated
Position: Probably extended
Orientation: Box 110–290°, head orientation of burial not known due to disturbance.
Grave Goods: None
Comment: Box fill contained 2 shell-tempered plain sherds and 3 flakes.

Burial 17

Location: Squares N42E40 and N44E40
Box Description: Length: 130cm; Width: 40cm; Depth: 10cm; Floor: Stone slabs; Capstones: 0
Demography: Age: 50+ yrs; Sex: Male; Pathology: Arthritic lipping of vertebrae; left parietal area of cranium exhibits pathology; osteo-arthritis infection of medial condyle of right femur.
Preservation: Poor; burial disturbed.
Articulation: Disarticulated; few remaining skeletal parts
Position: Probably extended
Orientation: Box 286°, head of burial to West
Grave Goods: None
Burial 18

Location: Squares N40E50 and N40E48
Box Description: Length: 185cm; Width: 50cm; Depth: 14cm;
Floor: Stone slabs; Capstones: 0
Individuality: Single interment
Demography: Age: 18-19 yrs; Sex: Female; Pathology: None noted
Preservation: Fair; skeletal remains reasonably complete.
Articulation: Articulated
Position: Extended
Orientation: Box 106°, head of burial to East
Grave Goods: Box fill contained 1 shell-tempered plain sherd and 5 flakes.
Comment: None

Burial 19

Location: Square N44E36
Box Description: Length: 170cm; Width: 50cm; Depth: 25cm;
Floor: Stone slabs; Capstones: 0
Individuality: Single interment
Demography: Age: 40 yrs; Sex: Female; Pathology: Cranial fragments exhibit abnormal density
Preservation: Very poor; skeletal remains incomplete and fragmentary.
Articulation: Articulated
Position: Extended
Orientation: Box 102°, head of burial to East
Grave Goods: Large jar (Mississippi Plain)
Comment: Box fill contained 100 shell-tempered plain sherd, 12 flakes, 1 biface and 1 fragmentary Cotaco Creek projectile point.

Burial 20

Location: Square N38E48
Box Description: Length: 51cm; Width: 25cm; Depth: 15cm;
Floor: Partially covered with stone slabs; Capstones: 0
Individuality: Single interment
Demography: Age: fetal; Sex: unknown; Pathology: none noted
Preservation: Very poor; no bones remaining
Articulation: Not determined
Position: Probably extended
Orientation: Box 70-250°, head orientation of burial not determinable
Grave Goods: None
Comment: Box fill contained 1 shell-tempered plain sherd.
Burial 21

Location: Square N38E48
Box Description: Length: 82cm; Width: 42cm; Depth: 17cm;
Floor: Earth; Capstones: 2 remaining
Individuality: Single interment
Demography: Age: .5-2.5 yrs; Sex: Unknown; Pathology: None noted
Preservation: Poor; little remaining of the skeleton
Articulation: Not determined due to extremely poor skeletal preservation
Position: Probably extended
Orientation: Box 110°, head orientation of burial to East
Grave Goods: None
Comment: Box fill contained 6 flakes.

Burial 22

Location: Square N44E30
Box Description: Length: 210cm; Width: 62cm; Depth: 24cm;
Floor: Stone slabs; Capstones: 0
Individuality: Single interment
Demography: Age: 35 yrs; Sex: male; Pathology: None noted
Preservation: Poor; scattered with little remaining of the skeleton
Articulation: Disarticulated
Position: Probably extended
Orientation: Box 106-286°, burial head orientation not known due to poor preservation and disturbance.
Grave Goods: None
Comment: Box fill contained 1 shell-tempered plain sherd, 18 flakes, 1 utilized flake and 5 fragments of worked deer metapodial.

Burial 23

Location: Squares N44E50 and N44E52
Box Description: Length: 92cm; Width: 39cm; Depth: 18cm;
Floor: Stone slabs; Capstones: 0
Individuality: Single interment
Demography: Age: 3.5 yrs; Sex: Not known; Pathology: None observed
Preservation: Poor; with scattered fragments and cranium
Articulation: Disarticulated
Position: Extended
Orientation: Box 68°, head of burial to East
Grave Goods: None
Comment: None

Burial 24

Location: Square N38E46
Box Description: Length: 171cm; Width: 47cm; Depth: Unknown;
Floor: Stone slabs; Capstones: 0
Individuality: Single interment
Demography: Age: Unknown; Sex: Unknown; Pathology: None observed
Preservation: Poor; few skeletal fragments remaining
Articulation: Disarticulated
Position: Probably extended
Orientation: Box 96°-276°, burial orientation unknown due to disturbed nature of skeletal remains
Grave Goods: None
Comment: Burial previously disturbed by relic hunters.

**Burial 25**  (Figure 8)

Location: Square N40E48
Box Description: Length: 84cm; Width: 33cm; Depth: 22cm;
Floor: Stone slabs; Capstones: 0
Individuality: Single interment
Demography: Age: .5 yr; Sex: unknown; Pathology: None noted
Preservation: Poor; cranial fragments only
Articulation: Disarticulated
Position: Probably extended
Orientation: Box 72°, head of burial to East
Grave Goods: None
Comment: Box fill contained no artifacts.

**Burial 26**

Location: Square N50E40
Box Description: Length: 173cm; Width: 49cm; Depth: 17cm;
Floor: Stone slabs; Capstones: 0
Individuality: Single interment
Demography: Age: 18-25 yrs; Sex: Male; Pathology: None noted
Preservation: Fair; burial disturbed
Articulation: Disarticulated
Position: Probably extended
Orientation: Box 268°, head of burial to West
Grave Goods: None
Comment: Box fill contained 32 flakes.

**Burial 27**  (Figure 9)

Location: Square N44E36
Box Description: Length: 100cm; Width: 46cm; Depth: 15cm;
Floor: Earth; Capstones: 0
Individuality: Single interment
Demography: Age: 40-45 yrs; Sex: Male; Pathology: None noted
Preservation: Fair; burial disturbed
Articulation: Disarticulated and rearranged to form "skull and crossbones"
Position: Probably extended

Burial 28

| Location: | Squares N46E26 and N46E28 |
| Box Description: | Length: 89cm; Width: 50cm; Depth: 26cm; Floor: Stone slabs; Capstones: 0 |
| Individuality: | Single interment |
| Demography: | Age: 35-50 yrs; Sex: Male; Pathology: None noted |
| Preservation: | Poor; small fragmentary remnant of burial due to disturbance |
| Articulation: | Disarticulated |
| Position: | Probably extended |
| Orientation: | Box 297°, head of burial to West |
| Grave Goods: | None |
| Comment: | Box fill contained 8 flakes and 1 stemmed projectile point. |

Burial 29

| Location: | Square N54E24 |
| Box Description: | Length: 115cm; Width: 28cm; Depth: 14cm; Floor: Stone slabs; Capstones: 0 |
| Individuality: | Single interment |
| Demography: | Age: 4.5 yrs; Sex: Unknown; Pathology: None noted |
| Preservation: | Poor; only a few fragments of burial remaining |
| Articulation: | Articulated |
| Position: | Probably extended |
| Orientation: | Box 84°, head of burial to East |
| Grave Goods: | None |
| Comment: | Box fill contained 4 flakes. |

Burial 30  (Figure 8)

| Location: | Square N40E48 |
| Box Description: | Length: 123cm; Width: 50cm; Depth: 20cm; Floor: Stone slabs; Capstones: 9 |
| Individuality: | Single interment |
| Demography: | Age: 5 yrs; Sex: unknown; Pathology: None noted |
| Preservation: | Poor; skeleton reasonably complete |
| Articulation: | Articulated |
| Position: | Extended |
| Orientation: | Box 70°, head of burial to East |
| Grave Goods: | None |
| Comment: | Box fill contained 3 shell-tempered plain sherds. Cranium exhibits occipital flattening. |
Burial 31  (Figure 8)

Location: Square N40E48
Box Description: Length: 155cm; Width: 45cm; Depth: 21cm;
Floor: Stone slabs; Capstones: 11
Individuality: Single interment
Demography: Age: 50 yrs; Sex: Female; Pathology: None noted
Preservation: Poor; skeleton reasonably complete
Articulation: Articulated
Position: Extended
Orientation: Box 72°, head of burial to East
Grave Goods: None
Comment: Cranium exhibits occipital flattening. Box fill contained 1 shell-tempered plain sherd and 4 flakes.

Burial 32

Location: Square N40E48
Box Description: Length: 155cm; Width: 45cm; Depth: 21cm;
Floor: Stone slabs; Capstones: 11
Individuality: Single interment
Demography: Age: 1.25 yrs; Sex: unknown; Pathology: None noted
Preservation: Fair; skeleton represented by a few fragments
Articulation: Articulated
Position: Unknown
Orientation: Box 72°, orientation of burial unknown
Grave Goods: None
Comment: Box fill contained 1 shell-tempered plain sherd and 4 flakes.

Burial 33

Location: Squares N40E46 and N42E46
Box Description: Length: 180cm; Width: 40cm; Depth: 32cm;
Floor: Stone slabs; Capstones: 8
Individuality: Single interment
Demography: Age: 39-44 yrs; Sex: Male; Pathology: arthritic lipping of vertebrae
Preservation: Good; burial reasonably intact
Articulation: Articulated
Position: Extended
Orientation: Box 20°, head of burial to North
Grave Goods: None
Comment: Box fill contained 9 shell-tempered plain sherd.

Burial 34

Location: Square N54E28
Box Description: Length: 140cm; Width: 50cm; Depth: 7cm;
Floor: Earth; Capstones: 0
Burial 35

Location: Square N54E28
Box Description: Length: 150cm; Width: 35cm; Depth: 12cm; Floor: Stone slabs; Capstones: 0
Individuality: Single interment
Demography: Age: 12 yrs; Sex: Unknown; Pathology: None noted
Preservation: Poor; disturbed and composed of a few skeletal fragments
Articulation: Articulated
Position: Extended
Orientation: Box 278°, head of burial to West
Grave Goods: None
Comment: Box fill contained 12 flakes.

Burial 36

Location: Square N62E42
Box Description: Length: 68cm; Width: 35cm; Depth: 14cm; Floor: Stone slabs; Capstones: 0
Individuality: Single interment
Demography: Age: 1 yrs; Sex: Unknown; Pathology: None noted
Preservation: Poor; burial consisted of a few skeletal fragments.
Articulation: Articulated
Position: Probably extended
Orientation: Box 282°, head of burial to West
Grave Goods: None
Comment: None.

Burial 37

Location: Squares N40E46 and N40E48
Box Description: Length: 170cm; Width: 55cm; Depth: 9cm; Floor: Stone slabs; Capstones: 0
Individuality: Single interment
Demography: Age: 45 yrs; Sex: Female; Pathology: Arthritic lipping in cervical vertebrae
Preservation: Fair; skeleton reasonably complete
Articulation: Articulated
Burial 38

Location: Square N52E40
Box Description: Length: 150cm; Width: 50cm; Depth: 19cm; Floor: Stone slabs; Capstones: 0

Indivduality: Single interment
Demography: Age: 28 yrs; Sex: Male; Pathology: None noted
Preservation: Poor; burial consists of 3-4 skeletal fragments.
Articulation: Unknown
Position: Probably extended
Orientation: Box 250°, NW, orientation of burial unknown
Grave Goods: None
Comment: None.

Burials 39-39A

Location: Squares N38E48 and N38E50
Box Description: Length: 130cm; Width: 43cm; Depth: 60cm; Floor: Earth; Capstones: 0

Indivduality: Double interment
Demography: (B39) Age: 6 yrs; Sex: Unknown; Pathology: None noted. (B-39A) Age: 6 yrs; Sex: Unknown; Pathology: None noted
Preservation: Poor; both burials partially complete and fragmentary
Articulation: Unknown
Position: Unknown
Orientation: Box 106-286°, head of Burial 39 to East; head of Burial 39A to West
Grave Goods: None
Comment: Box fill contained 7 flakes.

Burial 40

Location: Square N52E34
Box Description: Length: 179cm; Width: 50cm; Depth: 14cm; Floor: Earth; Capstones: 0

Indivduality: Single interment
Demography: Age: 35 yrs; Sex: Male; Pathology: Arthritic lipping of linea aspera
Preservation: Poor; skeleton incomplete and fragmentary
Articulation: Articulated
Position: Probably extended
Orientation: Box 290°, head of burial to West
Grave Goods: None
Comment: Box fill contained 2 shell-tempered plain, 2 Salt Pan Fabric Marked sherds and 5 flakes.
Burial 41

Location: Square N52E34
Box Description: Length: 140cm; Width: 60cm; Depth: 12cm;
                 Floor: Stone slabs; Capstones: 0
Individuality: Single interment
Demography: Age: Unknown; Sex: Unknown; Pathology: None noted
Preservation: Poor; disturbed burial with only 3-4 bones remaining
Articulation: Disarticulated
Position: Probably extended
Orientation: Box 116–296°, orientation of burial unknown
Grave Goods: None
Comment: Box fill contained 6 flakes.

Burial 42

Location: Squares N54E42 and N54E44
Box Description: Length: 115cm; Width: 45cm; Depth: 7cm;
                 Floor: Stone slabs; Capstones: 0
Individuality: Single interment
Demography: Age: Unknown; Sex: Unknown; Pathology: None noted
Preservation: Poor; no bone remaining
Articulation: Unknown
Position: Probably extended
Orientation: Box 104–284°, orientation of burial unknown
Grave Goods: None
Comment: Burial possibly plowed out in previous years.

Burial 43

Location: Square N62E40
Box Description: Length: 115cm; Width: 70cm; Depth: 40cm;
                 Floor: Earth, partially paved with stone slabs;
                 Capstones: 10 (2 layers)
Individuality: Single interment
Demography: Age: 40 yrs; Sex: Female; Pathology: None noted
Preservation: Poor; skeleton partially complete
Articulation: Articulated
Position: Flexed
Orientation: Box 114° head of burial to East
Grave Goods: None
Comment: Box fill contained 18 flakes, 1 biface and 1 projectile point mid-section.

Burial 44 (Figures 10 and 11)

Location: Square N52E40
Box Description: Length: 100cm; Width: 35cm; Depth: 19cm;
                 Floor: stone slabs; Capstones: 4
FIGURE 10. Burial 44 with box capstones in place.

FIGURE 11. Burial 44 with associated pottery vessels.
Individuality: Single interment
Demography: Age: 4.6 yrs; Sex: Unknown; Pathology: None noted
Preservation: Fair; skeleton reasonably complete
Articulation: Articulated
Position: Partly flexed
Orientation: Box 263°, head of burial to West
Grave Goods: 1 Mississippi Plain, 4 lobed pottery jar, 1 conch shell effigy (noded) bowl, 2 fragments of red ochre
Comment: Box fill contained 1 shell-tempered cord marked sherd and 2 flakes. The Mississippi Plain jar also contained 1 mussel shell.

Burial 45

Location: Square N52E36
Box Description: Length: 180cm; Width: 70cm; Depth: 15cm;
Floor: Stone slabs; Capstones: 0
Individuality: Single interment
Demography: Age: 35 yrs; Sex: Male; Pathology: None noted
Preservation: Poor; skeleton incomplete and fragmentary
Articulation: Articulated
Position: Extended
Orientation: Box 286°, head of burial to the West
Grave Goods: None
Comment: Burial 45 was intrusive into Burial 66. Burial 45 box fill contained 1 shell-tempered plain sherd and 7 flakes. Burial Box 45 was partially intrusive into Box 66.

Burial 46 (Figure 12)

Location: Square N52E32
Box Description: Length: 195cm; Width: 60cm; Depth: 23cm;
Floor: Stone slabs; Capstones: 0
Individuality: Single interment
Demography: Age: 30-35 yrs; Sex: Male; Pathology: Mild arthritic lipping of posterior margin of sacroiliac areas, pelvis, sciatic notch margins
Preservation: Fair; burial reasonably complete
Articulation: Articulated
Position: Extended
Orientation: Box 285°, head of burial to West
Grave Goods: None
Comment: Box fill contained 25 flakes, 2 utilized flakes and 1 biface.

Burial 47

Location: Square N54E32
Box Description: Length: 136cm; Width: 33cm; Depth: 25cm;
Floor: Stone slabs; Capstones: 0
Individuality: Single interment

FIGURE 13. Empty stone box (No. 67) showing construction.
Demography: Age: 8 yrs; Sex: Unknown; Pathology: None noted
Preservation: Poor; burial incomplete and fragmentary
Articulation: Partially articulated
Position: Extended
Orientation: Box 290°, head of burial to West
Grave Goods: None
Comment: None

Burial 48
Location: Square N46E42
Box Description: Length: 187cm; Width: 50cm; Depth: Unknown; Floor: Stone slabs; Capstones: 0
Individuality: Single interment
Demography: Age: 28-30 yrs; Sex: Male; Pathology: None noted
Preservation: Poor; only a few fragments of burial remaining (disturbed)
Articulation: Disarticulated
Position: Probably extended
Orientation: Box 318°, head of burial to West
Grave Goods: None
Comment: None

Burial 49
Location: Square N46E36
Box Description: Length: 110cm; Width: 60cm; Depth Unknown
Individuality: Single interment
Demography: Age: Unknown; Sex: Unknown; Pathology: None noted
Preservation: Poor; 1-2 bone fragments remaining of burial
Articulation: Unknown
Position: Probably extended
Orientation: Box 283°, head of burial to West
Grave Goods: None
Comment: Stone floor only portion of box remaining.

Burial 50
Location: Square N60E48
Box Description: Length: 94cm; Width: 24cm; Depth: 31cm; Floor: Stone slabs; Capstones: 4
Individuality: Single interment
Demography: Age: 5 yrs; Sex: Unknown; Pathology: None noted
Preservation: Poor; partially intact
Articulation: Articulated
Position: Probably extended
Orientation: Box 135°, head of burial to East
Grave Goods: None
Comment: Box fill contained 1 shell-tempered plain sherd and 2 flakes.
Burial 51

Location: Squares N44E38 and N44E40
Box Description: Length: 115cm; Width: 39cm; Depth: 28cm; Floor: Stone slabs; Capstones: 0
Individuality: Single interment
Demography: Age: 4.5 yrs; Sex: Unknown; Pathology: None noted
Preservation: Poor; burial incomplete and fragmentary
Articulation: Articulated
Position: Extended
Orientation: Box 110°, head of burial to East
Grave Goods: None
Comment: Box fill contained 9 flakes.

Burial 52

Location: Squares N40E44 and N42E44
Box Description: Length: 115cm; Width: 47cm; Depth: 26cm; Floor: Limestone slabs; Capstones: 0
Individuality: Single interment
Demography: Age: 25-35 yrs; Sex: Female; Pathology: None noted
Preservation: Poor; burial fragmentary
Articulation: Unknown
Position: Probably extended
Orientation: Box 114-294°, NW-SE, orientation of burial unknown
Grave Goods: None
Comment: Burial has been disturbed by diggers in previous years.

Burials 53-53A

Location: Square N46E42
Box Description: Length: 185cm; Width: 55cm; Depth: 13cm; Floor: Stone slabs; Capstones: 0
Individuality: Double interment
Demography: (B53) Age: 35 yrs; Sex: Female; Pathology: Arthritic lipping of rib sections and proximal anterior section. (B53A) Age: 35 yrs; Sex: Male; Pathology: None noted
Preservation: (B53) Poor; fragmentary and incomplete; (B53A) Poor; fragmentary and incomplete
Articulation: (B53) Articulated; (B53A) Bundle?
Position: (B53) Extended; (B53A) Bundle?
Orientation: Box 304°, (B53) head of burial to West; (B53A) burial orientation unknown
Grave Goods: None
Comment: Box fill contained 3 shell-tempered plain sherds and 19 flakes.
Burial 54

Location: Square N58E40
Box Description: Length: 190cm; Width: 57cm; Depth: 7cm;
  Floor: Stone slabs; Capstones: 0
Individuality: Single interment
Demography: Age: 35 yrs; Sex: Male; Pathology: None noted
Preservation: Poor; fragmentary
Articulation: Articulated
Position: Extended
Orientation: Box 292°, head of burial to West
Grave Goods: None
Comments: Box fill contained 2 shell-tempered plain sherd s.

Burial 55

Location: Square N48E44
Box Description: Length: 200cm; Width: 40cm; Depth: 25cm;
  Floor: Earth; Capstones: 0
Individuality: Single interment
Demography: Age: 28 yrs; Sex: Male; Pathology: None noted
Preservation: Poor; fragmentary
Articulation: Burial is fragmentary and partially articulated
Position: Probably extended
Orientation: Box 288°, head of burial to West
Grave Goods: None
Comments: Box fill contained 7 flakes.

Burial 56

Location: Squares N62NE44 and N62E46
Box Description: Length: 180cm; Width: 50cm; Depth: 18cm;
  Floor: Partially paved with stone slabs;
  Capstones: 0
Individuality: Single interment
Demography: Age: 50 yrs; Sex: Female; Pathology:
  Arthritic lipping of 4 thoracic vertebrae,
  arthritic development of right lateral anterior
  margin of body, periostitis/osteomyelitis distal
  section of left tibia, fibula, and right tibia
Preservation: Poor; burial reasonably complete
Articulation: Articulated
Position: Extended
Orientation: Box 98°, head of burial to East
Grave Goods: None
Comment: Box fill contained 7 shell-tempered plain sherd s, 7 flakes and 7 animal bone fragments.

Burial 57

Location: Squares N42E38 and N42E40
Box Description: Length: 170cm; Width: 60cm; Depth: Floor
  remaining only; Floor: Stone slabs; Capstones: 0
<table>
<thead>
<tr>
<th>Burial 58</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location: Squares N46E42 and N48E42</td>
</tr>
<tr>
<td>Box Description: Length 194cm; Width 57cm; Depth 25 cm:</td>
</tr>
<tr>
<td>Floor: Stone slabs; Capstones 0</td>
</tr>
<tr>
<td>Individuality: Single interment</td>
</tr>
<tr>
<td>Demography: Age:Unknown; Sex:Male; Pathology: None noted</td>
</tr>
<tr>
<td>Preservation: Poor; burial disturbed and fragmentary</td>
</tr>
<tr>
<td>Articulation: Articulated (partial)</td>
</tr>
<tr>
<td>Position: Extended</td>
</tr>
<tr>
<td>Orientation: Box 316°, head of burial to West</td>
</tr>
<tr>
<td>Grave Goods: None</td>
</tr>
</tbody>
</table>
| Comment: Box fill contained 8 flakes, 1 utilized flake, 1 biface and 1 projectile point (Morrow Mt.?)

<table>
<thead>
<tr>
<th>Burial 59</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location: Squares N52E42 and N52E44</td>
</tr>
<tr>
<td>Box Description: Length 185cm; Width 50cm; Depth 10 cm:</td>
</tr>
<tr>
<td>Floor: Stone slabs; Capstones 0</td>
</tr>
<tr>
<td>Individuality: Single interment</td>
</tr>
<tr>
<td>Demography: Age:Unknown; Sex:Male; Pathology: Right tibia and humerus are pathological, arthritic deposits on tarsals, and granulated appearance of eye orbits</td>
</tr>
<tr>
<td>Preservation: Poor; skeleton fragmentary and incomplete</td>
</tr>
<tr>
<td>Articulation: Disarticulated</td>
</tr>
<tr>
<td>Position: Probably extended</td>
</tr>
<tr>
<td>Orientation: Box 110-290°, burial orientation unknown</td>
</tr>
<tr>
<td>Grave Goods: None</td>
</tr>
</tbody>
</table>
| Comment: Box fill contained 14 flakes, 1 biface and 1 projectile point (stemmed).

<table>
<thead>
<tr>
<th>Burial 60</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location: Square N52E46</td>
</tr>
<tr>
<td>Box Description: Length: 175cm; Width 67cm; Depth: 13 cm;</td>
</tr>
<tr>
<td>Floor: Stone slabs</td>
</tr>
<tr>
<td>Individuality: Single interment</td>
</tr>
</tbody>
</table>
Demography: Age: 35 yrs; Sex: Female; Pathology: Periostitis infection of the right humerus, right and left tibia
Preservation: Poor; skeleton incomplete and fragmented
Articulation: Articulated (partial)
Position: Extended
Orientation: Box 100-280°, burial orientation unknown
Grave Goods: None
Comment: Box fill contained 4 shell-tempered plain sherds and 16 flakes.

Burials 61-61A
Location: Square N56E44
Box Description: Length: 186cm; Width: 65cm; Depth 33 cm;
Floor: Stone slabs
Individuality: Double interment
Demography: (B-61) Age 35 yrs; Sex: Female Pathology: Dental abscesses and bone resorption; (B61A) Age: 50 yrs; Sex: Female: Pathology: None noted
Preservation: Poor (both burials) Both burials fragmentary
Articulation: Unknown (both burials)
Position: Unknown (both burials)
Orientation: Box 104-289°, burial orientation unknown
Grave Goods: None
Comment: Box fill contained 18 flakes.

Burials 62-62A
Location: Square N46E40
Box Description: Length: 185cm; Width: 50cm; Depth 27cm;
Floor: Earth: Capstones: 0
Individuality: Double interment
Demography: (B-62) Age: 50 yrs; Sex: Female; Pathology: Arthritic lipping of vertebrae; (B-62A) Age: 3.5 yrs; Sex: Unknown; Pathology: None noted
Preservation: Poor; both burials fragmentary
Articulation: Unknown
Position: Unknown (both burials) due to almost total absence of skeletal remains
Orientation: Box 92-272°, orientation of both burials unknown
Grave Goods: None
Comment: Box fill contained 1 shell-tempered plain sherd and 1 stemmed projectile point fragment (Cotaco Creek)

Burial 63
Location: Square N52E36
Box Description: Length: Unknown; Width: 65cm; Depth: 14cm;
Floor: Stone slabs; Capstones: 0
Individuality: Single interment
Demography: Age 35 yrs; Sex: Male; Pathology: None noted
Preservation: Poor; burial incomplete and fragmentary
Articulation: Unknown
Position: Unknown
Orientation: Box 104-284°; burial orientation unknown due to almost total absence of skeleton
Grave Goods: None
Comment: None.

Burial 64

Location: Square N62E42
Box Description: Length: 165cm; Width: 44cm; Depth: 14cm; Floor: Stone slabs; Capstones: 0
Individuality: Single interment
Demography: Age: 30-35 yrs; Sex: Female; Pathology: Arthritic development of right lateral anterior surface of 5th lumbar process; development most pronounced at the lateral end, anterior surface. Swelling of left fibula shaft is indicative of a healed fracture or periostitis.
Preservation: Fair; burial reasonably complete
Articulation: Articulated
Position: Extended
Orientation: Box 289°, head of burial to West
Grave Goods: None
Comment: Box fill contained 2 flakes and 1 biface.

Burials 65-65A

Location: Squares N50E42 and N50E44
Box Description: Length: 180cm; Width: 45cm; Depth: 25cm; Floor: Earth; Capstones: 0
Individuality: Double interment; adult female and male child
Demography: (B-65) Age: 50 yrs; Sex: Female; Pathology: Pitting of left femur and tibia; lesions exhibited on right femur and tibia as well as left humerus; left maxilla exhibits bone resorption from an abscess. (B-65A) Age: Unknown; Sex: Male; Pathology: None noted
Preservation: Poor; both burials incomplete and fragmentary (skulls only)
Articulation: (B-65) Articulated; (B-65A) Bundle in center of box
Position: (B-65) Extended; (B-65A) Bundle
Orientation: Box 285°; heads of burials 65 and 65A to West
Grave Goods: None
Comment: Box fill contained 1 shell-tempered plain sherd, 26 flakes and 1 biface.

Burial 66

Location: Square N52E36
Box Description: Length: 164cm; Width: 48cm; Depth: 25cm; Floor: Stone slabs; Capstones: 4
Individuality: Single interment
Demography: Age: 30-35 yrs; Sex: Female; Pathology: None noted
Preservation: Poor; burial incomplete and fragmentary
Articulation: Articulated
Position: Extended
Orientation: Box 285°, head of burial to West
Grave Goods: None
Comment: Box fill contained 1 shell-tempered plain sherd and 6 flakes.

Burial 67 (Figure 13)
Location: Square N48E40
Box Description: Length: 89cm; Width: 28cm; Depth: 13cm; Floor: Stone slabs; Capstones: 3
Individuality: Single interment
Demography: Age: 75 yr - 1 yr; Sex: Unknown; Pathology: None noted
Preservation: Poor; few bone fragments all that remained of burial
Articulation: Unknown
Position: Unknown
Orientation: Box 96-276°, orientation of burial is unknown
Grave Goods: None
Comment: None.

Burial 68
Location: Square N48E34
Box Description: Length: 198cm; Width: 54cm; Depth: 30cm; Floor: Limestone slabs Capstones: 0
Individuality: Single interment
Demography: Age: 35 yrs; Sex: Female; Pathology: Arthritic development of rim of sacro-iliac anterior and iliac crest. Left tibia and fibula exhibit evidence of osteomyelitis
Preservation: Poor; burial incomplete and scattered
Articulation: Disarticulated
Position: Probably extended
Orientation: Box 104-284°, burial orientation is unknown
Grave Goods: None
Comment: Box fill contained 13 flakes, 1 biface and 2 shell beads.

Burial 69
Location: Square N64E42
Box Description: Length: 177cm; Width: 55cm; Depth: 13cm; Floor Partially paved with stone slabs; Capstones: 0
Individuality: Single interment
Burial 70
Location: Square N54E38
Box Description: Length: 90cm; Width: 35cm; Depth: 20cm;
Floor: Soil and stone slabs; Capstones: 0
Individuality: Single interment
Demography: Age: 1 yr; Sex: Unknown; Pathology: None noted
Preservation: Poor; several skull fragments only remains of the burial
Articulation: Unknown
Position: Probably extended
Orientation: Box 286°, head of burial to West
Grave Goods: None
Comment: Box fill contained 1 flake.

Burial 71
Location: Square N50E46
Box Description: Length: 181cm; Width: 47cm; Depth: 13cm;
Floor: Stone slabs; Capstones: 0
Individuality: Single interment
Demography: Age: Unknown; Sex: Female; Pathology: None noted
Preservation: Poor; burial incomplete and fragmentary (disturbed)
Articulation: Disarticulated
Position: Probably extended
Orientation: Box 76-256°, orientation of burial unknown due to its disturbance
Grave Goods: None
Comment: Box fill contained 8 flakes and a single biface.

Burial 72
Location: Square N50E48
Box Description: Length: 135cm; Width: 39cm; Depth: 19cm;
Floor: Stone slabs; Capstones: 0
Individuality: Single interment
Demography: Age: 6 yrs; Sex: Indeterminate; Pathology: None noted
Preservation: Poor; skeleton incomplete and fragmentary
Articulation: Partially articulated
Position: Extended
Burial 73-73A

Location: Square N52E42
Box Description: Length: 185cm; Width: 55cm; Depth: 23cm; Floor: Stone slabs; Capstones: 0
Individuality: Double interment
Demography: (B-73) Age Adult indeterminate; Sex: Indeterminate; Pathology: None noted;
           (B 73A) Age 5-6 yrs; Sex: Indeterminate; Pathology None noted
Preservation: Poor; both burials incomplete and disturbed
Articulation: (B-73) Disarticulated; (B 73A) Disarticulated
Position: Both burials were probably extended prior to being disturbed
Orientation: Box 289°, heads of both burials to West
Grave Goods: None
Comment: Box fill contained 6 flakes.

Burials 74-74A

Location: Square N46E34
Box Description: Length 170cm; Width: 54cm; Depth: 19cm; Floor: Stone slabs; Capstones: 0
Individuality: Double interment
Demography: (B-74) Age: 35-50 yrs; Sex: Male; Pathology: Arthritic lipping of thoracic vertebrae; (B-74A) Age: 20-22 yrs; Sex: Female; Pathology None noted
Preservation: Poor; both burials disturbed, consisted of scattered bone fragments
Articulation: Both burials disarticulated
Position: Both burials probably extended
Orientation: Box 110-290°, orientation of both burials indeterminate
Grave Goods: None
Comment: Box fill contained 6 flakes.

Burial 75

Location: Square N46E36
Box Description: Length: 110cm; Width: 41cm; Depth: 8cm; Floor: Stone slabs; Capstones: 0
Individuality: Single interment
Demography: Age 6 yrs; Sex: Indeterminate; Pathology: None noted
Preservation: Poor: burial fragmentary and incomplete (disturbed)
Articulation: Disarticulated
Position: Probably extended
Burial 76

Location: Squares N66E48 and N66E50
Box Description: Length: 165cm; Width: 40cm; Depth: Bottom only remaining portion of box; Floor: Stone slabs; Capstones: 0
Individuality: Indeterminate
Demography: Age: Indeterminate; Sex: Indeterminate; Pathology: None noted
Preservation: Poor; no bone remaining
Articulation: Indeterminate
Position: Probably extended
Orientation: Box 75-255°, orientation of burial unknown
Grave Goods: None
Comment: None.

Burial 77

Location: Square N66E40
Box Description: Length: Indeterminate; Width: Indeterminate; Depth: Indeterminate; Floor: Indeterminate; Capstones: 0
Individuality: Indeterminate
Demography: Age: Indeterminate; Sex: Indeterminate; Pathology: None noted
Preservation: Poor; no bone remaining
Articulation: Unknown
Position: Probably extended
Orientation: Indeterminate
Grave Goods: None
Comment: None.

Burial 78

Location: Square N52E34
Box Description: Length: 205cm; Width: 48cm; Depth: 23cm; Floor: Earth; Capstones: 0
Individuality: Single interment
Demography: Age: 25-30 yrs; Sex: Male; Pathology: None noted
Preservation: Fair; burial reasonably complete
Articulation: Articulated
Position: Extended
Orientation: Box 288°, head of burial to West
Grave Goods: None
Comment: None.

Burial 79

Location: Square N52E36
Burial 80

Location: Square N50E36
Box Description: Length: 90cm; Width: 30cm; Depth: 20cm; Floor: Stone slabs; Capstones: 7
Individuality: Single interment
Demography: Age: 1 yr; Sex: Indeterminate; Pathology: None observed
Preservation: Fair; burial reasonably complete
Articulation: Articulated
Position: Box 296°, head of burial to West
Orientation: None
Grave Goods: None
Comment: Cranium exhibits occipital flattening. Box fill contained 2 bifaces.

Burial 81

Location: Square N52E48
Box Description: Length: 62cm; Width: 26cm; Depth: 12cm; Floor: Shell-tempered plain sherds and stone slabs; Capstones: 5
Individuality: Single interment
Demography: Age: .5 yr; Sex: Indeterminate; Pathology: None noted
Preservation: Poor; burial incomplete and fragmentary
Articulation: Disarticulated
Position: Indeterminate
Orientation: Box 117-297°, orientation of burial unknown
Grave Goods: None
Comment: Box fill contained 8 large shell-tempered plain sherds (part of box floor) and 2 flakes.

Burial 82

Location: Squares N52E38 and N54E38
Box Description: Length: 190cm; Width: 55cm; Depth: Bottom only remaining; Floor: Stone slabs; Capstones: 0
Individuality: Single interment
Demography: Age: Adult indeterminate; Sex: Male; Pathology: None noted
Burial 83
Location: Square N54E46
Box Description: Length: 210cm; Width: 60cm; Depth: 28cm;
Floor: Earth; Capstones: 0
Individuality: Single interment
Demography: Age: 35 yrs; Sex: Female; Pathology: None noted
Preservation: Poor; burial reasonably complete
Articulation: Articulated
Position: Extended
Orientation: Box 68°, head of burial to East
Grave Goods: None
Comment: Box fill contained 1 flake and 1 mussel shell.

Burial 84
Location: Square N54E48
Box Description: Length: 180cm; Width: 50cm; Depth: 13cm;
Floor: Stone slabs; Capstones: 0
Individuality: Single interment
Demography: Age: Indeterminate; Sex: Female; Pathology: None noted
Preservation: Poor; remains of burial consist of a few scattered bone fragments
Articulation: Disarticulated
Position: Probably extended
Orientation: Box 115°, head of burial to East
Grave Goods: None
Comment: Box fill contained 1 shell-tempered plain sherd.

Burial 85
Location: Square N68E40
Box Description: Portion of floor only remaining; Floor: Partially paved with stone slabs; Capstones: 0
Individuality: Single interment
Demography: Age: 35 yrs; Sex: Male; Pathology: Arthritic lipping of thoracic vertebrae
Preservation: Poor; burial remnant consisted of a few bone fragments
Articulation: Disarticulated (partially)
Position: Extended
Orientation: Box 294°, head of burial to West
Grave Goods: None
Comment: None.
Burial 86

Location: Square N46E38
Box Description: Length: 130cm; Width: 40cm; Depth: 7cm;
Floor: Earth; Capstones: 0
Individuality: Single interment
Demography: Age: 5-6 yrs; Sex: Indeterminate; Pathology: None noted
Preservation: Poor; burial fragmentary
Articulation: Articulated
Position: Extended
Orientation: Box 302°, head of burial to West
Grave Goods: None
Comment: Box fill contained 1 marine shell which had possibly been associated with Burial 86, as well as 2 flakes.

Burial 87

Location: Square N54E40
Box Description: Length: 125cm; Width: 50cm; Depth: 17cm;
Floor: Partially paved with stone slabs; Capstones: 0
Individuality: Single interment
Demography: Age: 5 yrs; Sex: Indeterminate; Pathology: None noted
Preservation: Poor; skeleton fragmentary and incomplete
Articulation: Partially articulated
Position: Extended
Orientation: Box 289°, head of burial to West
Grave Goods: None
Comment: None.

Burial 88

Location: Squares N52E36 and N52E38
Box Description: Length: 195cm; Width: 55cm; Depth: Unknown;
Floor: Stone slabs; Capstones: 0
Individuality: Single interment
Demography: Age: 35 yrs; Sex: Female; Pathology: None noted
Preservation: Poor; burial disturbed and incomplete
Articulation: Disarticulated
Position: Probably extended
Orientation: Box 109-289°, orientation of burial unknown
Grave Goods: None
Comment: None.

Burial 89

Location: Square N54E24
Box Description: Length: 125cm; Width: 60cm; Depth:
Indeterminate; Floor: Earth; Capstones: 0
<table>
<thead>
<tr>
<th>Burial 90</th>
<th>Burial 91</th>
<th>Burial 92</th>
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<tbody>
<tr>
<td>Location:</td>
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<td>Box Description:</td>
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<td>Demography:</td>
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<tr>
<td>Comment:</td>
<td>Comment:</td>
<td>Comment:</td>
</tr>
</tbody>
</table>
Burial 93

Location: Square N48E42
Box Description: Length: 120cm; Width: 45cm; Depth: 15cm;
Floor: Earth; Capstones: 0
Individuality: Single interment
Demography: Age: 5 yrs; Sex: Indeterminate; Pathology: None noted
Preservation: Poor; burial incomplete and fragmentary
Articulation: Disarticulated
Position: Probably extended
Orientation: Box 100-280°, orientation of burial unknown
Grave Goods: None
Comment: Box fill contained 20 flakes and 1 utilized flake.

Burial 94

Location: Square N42E42
Box Description: Length: 95cm; Width: 38cm; Depth: 17cm;
Floor: Earth; Capstones: 0
Individuality: Single interment
Demography: Age: 3.5 yrs; Sex: Indeterminate; Pathology: None noted
Preservation: Poor; burial incomplete and fragmented
Articulation: Articulated
Position: Partly flexed on left side
Orientation: Box 92°, head of burial to East
Grave Goods: None
Comment: Box fill contained 1 flake.

Burial 95

Location: Squares N52E44 and N52E46
Box Description: Length: 150cm; Width: 50cm; Depth:
Indeterminate; Floor: Earth; Capstones: 0
Individuality: Single interment
Demography: Age: 35 yrs; Sex: Female; Pathology: None noted
Preservation: Poor; burial is disturbed consisting of scattered fragments
Articulation: Disarticulated
Position: Probably extended
Orientation: Box 88°, head of burial to East
Grave Goods: None
Comment: Box fill contained 10 flakes.
Burial 96

Location: Square N52E44
Box Description: Length: 175cm; Width: 80cm; Depth: 15cm;
Floor: Earth; Capstones: 0
Individuality: Single interment
Demography: Age: 50 yrs; Sex: Male; Pathology: Arthritic lipping of lumbar and thoracic vertebrae
Preservation: Poor; burial reasonably complete
Articulation: Articulated
Position: Extended
Orientation: Box 296°, head of burial to West
Grave Goods: None
Comment: Box fill contained 5 flakes.
LITHIC ARTIFACT ANALYSIS

A total of 824 lithic artifacts was recovered from the site, including those from pit features, burials, stone box fill, general excavations and the surface. Also included are several specimens recovered from the surface of the nearby Pete Dudney property. The overall collection includes specimens that are classified within the general categories of chipped, ground and pecked stone as well as lithic debris. The artifact count does not indicate in every instance complete specimens, as many artifacts recovered were fragmentary, nonetheless informative statistically.

Examination of the 824 lithic artifacts from the site suggests that these had been manufactured from a variety of local materials that can be found within the Nashville Basin. The most common cherts used in the manufacture of tools from site 40SU20 were the gray, blue-gray, tan, and brown varieties derived from the Fort Payne, Warsaw, St. Louis, Monteagle and Bangor geologic formations. Cherts from these formations occurred as large nodules and weathered blocks that are common in the Nashville Basin and adjacent areas of the Lower Highland Rim.

Other stones utilized for tools, such as sandstone or quartzite, were also derived from local stream beds, older terraces and upland ridges.

Projectile Points

A total of 28 complete and 25 fragmentary projectile points was recovered from the general excavations, stone box fill, burials and the surface of the site. Although the sample is comparatively small, the types nonetheless conform to similar forms found in other areas of East, Middle and West Tennessee within the Cumberland, Duck, Harpeth, Tennessee, as well as other river drainage systems. Similar forms and related cultural sequences are also noted in the adjoining areas of Kentucky, Virginia and Alabama. Excavation at many sites in the areas noted has permitted a classification scheme and refinement of lithic tool and projectile point categories with tight temporal controls.

The projectile points recovered from site 40SU20 are classified by established type name or by categories comparable to other sites. These types and categories are based on morphological differences, style and, to a lesser degree, technology. Each type or category is described along with comparative data which are presented with comments. Distribution of projectile points is presented in Table 2.

Category 1. Adena (Cambron and Hulse 1964; Bell 1958) (Figure 14). Sample size: 1 complete, 1 fragmentary. Form: triangular blades with excursive edges and poorly pronounced shoulders. Stems: straight
<table>
<thead>
<tr>
<th>Provenience</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
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e. McIntire. f. Madison. g,i. Cotaco Creek. h. Delhi. j. Flint Creek. k-l. Bakers Creek.
m. Category 11.

Size: Length: 63mm; Stem Length: 15-16mm (Mean: 15.5mm); Stem Width: 17-18mm (Mean: 17.5mm); Width: 25-27mm (Mean: 26 mm); Thickness: 9mm.

Comments: Of the two specimens represented, one was recovered from Level A of Square N50E32 and the other from the excavation backfill. In East Tennessee the Adena point is generally considered to be a diagnostic artifact of the Early Woodland Period. The Adena point has been recovered from Early Woodland contexts at the Calloway Island site on Little Tennessee River, where a radiocarbon date of 2180±125 years B.P. (before present) was obtained (Chapman 1979:162). The Adena type also occurs frequently at Late Archaic sites in the Cumberland Valley and has been dated at the Robinson Shell Mound site at approximately 1000 B.C. (Morse and Polhemus 1963:26). It is probable that the two specimens from site 40SU20 also fall within a similar temporal range.

Category 2. Bakers Creek (Cambron and Hulse 1960b) (Figure 14). Sample Size: 2 complete, 3 fragmentary. Form: triangular blades with excursive and straight edges. Shoulders are weak and horizontal. Stems: Stems are expanded with straight bases. Cross section: varies from flattened to biconvex. Material: tan, red, brown, light and dark gray cherts.

Size: Length: 31-43mm (Mean: 37mm); Stem Length: 9-14mm (Mean: 11.5mm); Stem Width: 13-24mm (Mean: 18.5mm); Width: 19-23mm (Mean: 21mm); Thickness: 5-8mm (Mean: 6.5mm).

Comments: Of the five specimens found, four were recovered from the excavation backfill and the remaining one from Level A of Square N50E34. Bakers Creek projectile points are generally found on Middle Woodland sites over a wide area of the Southeastern United States and were also recovered from the Yearwood site in Lincoln County, Tennessee, which produced radiocarbon dates of A.D. 150±75 and A.D. 50±95 (Butler 1977:10).

Category 3. Benton (Cambron and Hulse 1964:11) Sample size: 2 fragmentary. Form: blade form not determinable due to fragmentary condition of specimen. The shoulders are pronounced and slightly barbed. Stems: The stem is straight with a slightly concave base which is slightly ground. Cross section: flattened. Material: mottled blue and gray Fort Payne chert.

Size: Length: indeterminate; Stem Length: 12mm; Stem Width: 17mm; Width: indeterminate; Thickness: 6mm.

Comments: Of the two specimens recovered, one was recovered from the excavation backfill and one from Level A of Square N44E40. The Benton projectile point type is generally found on sites along the Cumberland and Tennessee as well as several other river drainage areas in Tennessee, Alabama and Kentucky. A Middle to Late Archaic
temporal span of approximately 4000-2000 B.C. has been suggested for Benton points (Cambron and Hulse 1964:11).


Size: Length: indeterminate due to fragmentary condition of specimen. Stem Length: 8mm; Stem Width: indeterminate due to fragmentary condition; Width: 24mm; Thickness: 6mm.

Comments: The single specimen was recovered from the fill of Stone Box Burial No. 81. Association with Stone Box 81 fill indicates that the Big Sandy projectile point had, in prehistoric times, been removed from its original stratigraphic context when the stone box was constructed during the Mississippian cultural period (A.D. 900-1600). The chronological position of Big Sandy points is complicated since few stratified sites have been excavated that contain this point type. Evidence of Early Archaic association was noted at the North Alabama Stanfield-Worley Bluff Shelter which produced a radiocarbon date of 9640+45 years B.P. (DeJarnette, Kurjack and Cambron 1962:85).

However, the Eva site in Benton County, Tennessee (approximately 70 miles southwest of Goodlettsville) produced Big Sandy points within Middle Archaic contexts which have been dated to around 5996 years B.P. (Lewis and Lewis 1961:37).

**Category 5. Cotaco Creek** (Cambron and Hulse 1964) (Figure 14). Sample Size: 2 complete, 5 fragmentary. Form: wide blade, pronounced horizontal shoulders, all of which are rounded in varying degrees. Blade edges are straight to excurvate. Stems: straight to slightly expanded with straight bases, two of which are ground. Cross Section: flattened to slightly biconvex. Material: mottled blue and gray Fort Payne chert; tan, gray and tan banded; and gray and white variegated chert.

Size: Length 40-45mm (Mean: 42.5mm); Stem Length: 9-12 mm (Mean: 10.5mm); Stem Width: 11-18mm (Mean: 14.5mm); Width: 30-40mm (Mean: 35mm); Thickness: 5-9mm (Mean: 7mm).

Comments: Of the seven specimens collected, two were recovered from the excavation backfill, one from Level A of Square N50E38, one from Feature 2, and one each from the fill of Stone Boxes 5, 19 and 62. Although no good radiocarbon dates have been established in Tennessee for the Cotaco Creek point types, it is considered a Terminal Archaic-Early Woodland type in Northern Alabama (Cambron and Hulse 1964).

**Category 6. Kirk Corner Notched** (Coe 1964) (Figure 15). Sample Size: 1 fragmentary. Form: triangular blade having incurvate edges
which are lightly serrated. Stem: The specimen is corner notched with an expanded straight base stem which has been lightly ground. Cross Section: flattened. Material: white and light purple variegated chert.

Size: Length: indeterminate due to fragmentary condition of specimen; Stem Length: 8mm; Stem Width: 21mm; Width: 27mm; Depth of Notches: 7mm; Thickness: 6mm.

Comments: The single specimen was recovered from the backfill of the excavations. The Kirk point type is widely distributed throughout the southeast as well as other areas of Eastern United States and is generally found in Early Archaic contexts.

Radiocarbon dates derived for Kirk Corner Notched points from several sites on Little Tennessee River in Eastern Tennessee are as follows: Icehouse Bottom Site, Stratum 16, 7460±290 B.C. (Chapman 1977:147); Bacon Farm, Stratum 9, 7155 B.C. (Chapman 1978:54).

At the Daugherty Cave Site in Southwestern Virginia a radiocarbon date of 7840±400 B.C. was obtained from Zone J which contained an Early Archaic (Kirk) component (Benthall n.d.).

Category 7. Ledbetter (Kneberg 1956) (Figure 14). Sample Size: 1 complete. Form: wide elongated blade with straight edges and slightly asymmetrical shoulders. Stem: slightly tapered with straight base. Cross Section: slightly biconvex. Material: gray and tan banded chert.

Size: Length: 62mm; Stem Length: 12mm; Stem Width: 13mm; Width: 34mm; Thickness: 9mm.

Comments: The single specimen from the site was recovered from the excavation backfill. The Ledbetter point types are generally associated with Late Archaic components at sites on the Cumberland and Tennessee as well as other rivers in Middle and Western Tennessee, North Alabama and portions of Kentucky.

Category 8. Madison (Ritchie 1961) (Figure 14). Sample Size: 9 complete, 2 fragmentary. Form: triangular blades with straight to incurvate edges. Base: straight to convex. Cross Section: slightly biconvex to flattened. Material: gray, red, tan, and brown, as well as gray and white banded chert.

Size: Length: 21-39mm (Mean: 30mm); Width: 14-17mm (Mean: 15.5mm); Thickness: 3-4mm (Mean: 3.5mm).

Comments: The eleven specimens were associated with Burial No. 9 which dates within the Mississippian cultural period of A.D. 900-1600.

Category 10. Morrow Mountain I (Coe 1964) (Figure 15). Sample Size: 1 complete. Form: asymmetrical having a medium, broad blade with excursive edges. Shoulders are broad and taper to form a rudimentary stem. Stem: contracting and exhibits a nipple which served as a striking platform at the stem base. Cross Section: biconvex. Material: brownish-gray chert.

Size: Length: 37mm; Stem Length: 3mm; Width: 23mm; Thickness: 6mm.

Comments: The single specimen was recovered from the fill of Stone Box No. 57, but is not culturally or temporally related. Morrow Mountain projectile points occur on Middle Archaic sites over a wide area of the Southeastern United States. Radiocarbon dates from the Morrow Mountain complex in the Little Tennessee River Valley of Eastern Tennessee include the following: Howard Site, Level 3, 5305 B.C. (Chapman 1979:79); Icehouse Bottom Site, 5045±245 B.C., 5045±130 B.C., and 4575±165 B.C. (Faulkner 1977:281).

Category 11. Narrow Thick Lanceolate Side Notched (Faulkner and McCollough 1973:100) (Figure 14). Sample Size: 1 complete. Form: narrow, lanceolate crude blade with straight edges. Shoulders are tapered. Stem: Stem is expanded with a slightly rounded, thick base and was formed by removal of flakes forming broad, shallow side notches. Cross Section: biconvex. Material: gray and white banded chert.

Size: Length: 30mm; Stem Length: 12mm; Stem Width: 14mm; Width: 16mm; Thickness: 7mm.

Comments: The single specimen was recovered from Level A of excavation Square N50E32. This projectile point type is also reported from sites in the Normandy Reservoir area of Middle Tennessee and appears to be associated with Middle to Late Woodland occupation (Faulkner and McCollough 1973:100).

Category 12. Delhi (Ford and Webb 1956:58-60) (Figure 14). Sample Size: 1 fragmentary. Form: wide triangular blade with slightly excursive blade edges. Stem: Although a small basal portion is missing, the stem was long, narrow and straight, having been formed by broad corner removals. Shoulders are well pronounced with slightly downward

Size: Length: indeterminate due to fragmentary condition of specimen. Stem Length: indeterminate. Stem Width: 13mm; Width: 28mm; Thickness: 6mm.

Comments: This specimen was recovered from the fill of Stone Box No. 27, but is unrelated culturally and temporally with the feature. Delhi projectile points were first described by Ford and Webb (1956:58-60) from the Poverty Point and Jaketown Sites in Louisiana. The Poverty Point culture has been described as belonging to the Late Archaic phase with estimated temporal placement of 1700-500 B.C. (Webb 1977:60-61).


Size: Length: 36mm; Stem Length: 5mm; Stem Width: indeterminate due to fragmentary condition; Width: 22mm; Thickness: 5mm.

Comments: The single specimen was recovered from Level A of excavation Square N44E39. White Springs points were found in association with Morrow Mountain burials at the Stanfield-Worley Bluff Shelter in Northern Alabama (DeJarnette, Kurjack and Cambron 1962:80), indicating a Middle Archaic temporal placement for these artifacts.


Size: Length: 50mm; Stem Length: 9-12mm (Mean: 10.5mm); Stem Width: 14-15mm (Mean: 14.5mm); Width: 19-23mm (Mean: 21mm); Thickness: 7mm.

Comment: Of the two specimens, one was recovered from the excavation backfill and the other from Level A of Square N50E38. Similar forms were recovered from the Penitentiary Branch in Jackson County, Tennessee and are identified as belonging to the Late Archaic component, with radiocarbon dates ranging from 3727±493 to 3211±277 years B.P. (Cridlebaugh 1986:68).

Category 15. Wade (Cambron and Hulse 1964) (Figure 15). Sample Size: 1 complete, 1 fragmentary. Form: broad triangular blades with
excurvate edges. Stem: expanded with straight to slightly excurvate bases, formed by broad corner removals. Shoulders are tapered with pronounced barbs. Cross Section: flattened to biconvex. Material: gray Fort Payne chert, red chert.

Size: Length: 37mm; Stem Length: 11-12mm (Mean: 11.5mm); Stem Width: 17-18mm (Mean: 17.5mm); Width: 30-31mm (Mean: 30.5mm); Thickness: 7-8mm (Mean: 7.5mm).

Comments: One of the specimens was recovered from excavation Square N50E40 and the other from Square N46E32. The Wade point type has been found in a Terminal Archaic context in the Nickajack Reservoir in the Eastern Tennessee Valley (Faulkner and Graham 1966:72; Faulkner and McCollough 1973:110). In the Normandy Reservoir area of Middle Tennessee, Wade points also were found in Terminal Archaic and Early Woodland context. The Late Archaic-Early Woodland transition period occurred within the period 1000-500 B.C. (Faulkner and McCollough 1973:149).

Category 16. Bacon Island (Cambron and Hulse 1975:9) (Figure 14). Sample Size: 1 complete. Form: triangular blade with straight edges. Stem: wide, expanded with rounded or excurvate base and formed by broad corner removals. Shoulders are horizontal with wide barbs. Cross Section: biconvex. Material: gray Fort Payne chert.

Size: Length: 68mm; Stem Length: 12mm; Stem Width: 14mm; Width: 29mm; Thickness: 7mm.

Comments: The single specimen was recovered from Level A of excavation Square N48E32. A Late Archaic cultural affiliation is suggested for this point type (Cridlebaugh 1986:171).

Category 17. Flint Creek (Cambron 1958) (Figures 14, 15). Sample Size: 3 fragmentary. Form: narrow, elongated blade with excurvate edges. Stem: slightly expanded with straight base which is lightly ground. The single shoulder remaining is slightly tapered and moderately pronounced. Cross Section: biconvex. Material: gray Fort Payne chert.

Size: Length: 38mm; Stem Length: 9mm; Stem Width: 11mm; Width: indeterminate due to fragmentary condition; Thickness: 6mm.

Comments: Two specimens were recovered from the excavation backfill and one from Level A of Square N56E38. The Flint Creek point is generally associated with Terminal Archaic-Early Woodland cultural components noted at sites on the Duck River in Middle Tennessee (Faulkner and McCollough 1973:102), as well as on the Tennessee River in Northern Alabama and Western Tennessee. Flint Creek points were also recovered from Site 40HA63 in Moccasin Bend on the Tennessee River in Hamilton County, Tennessee (Graham 1964), as well as from the Penitentiary Branch Site (40JK25) on the Cumberland River in Jackson County, Tennessee (Cridlebaugh 1986:161-162).
Projectile Point Fragments. In addition to the fragmentary and complete identifiable types, an additional 6 basal fragments, 2 distal ends, 1 midsection and 1 stem fragment were recovered from the site. Of the total unidentifiable specimens recovered, 5 were from the excavation backfill, 1 from Level A of Square N50E38, and one each from the fill of Stone Boxes 6, 43, 59 and 69. Materials utilized in manufacture include pink, tan, light gray and dark gray chert.

Other Chipped Stone Artifacts

The several chipped stone artifact categories other than projectile points recovered from the site include bifaces, gravers, blades, utilized flakes, various knife and scraper forms, notched flakes, raclettes, perforators and drills. Each of the above categories is briefly described along with comparative data. Distribution of the above forms is presented in Table 3.

Preform Knives (Figure 14). These are fully thinned and edge retouched, bifacially flaked forms which are categorized into three basic shapes: (1) trianguloid with parallel blade edges and straight bases, (2) ovate with excursive blade edges and rounded bases and (3) amorphous with straight to excursive blade edges and irregular bases.

Of the 42 complete and fragmentary specimens from the site, 14 were midsections, 19 distal ends, 7 basal fragments and 2 complete. Of the identifiable specimens, 1 complete and 2 fragmentary are trianguloid, 3 fragmentary are ovate, and 1 complete, 2 fragmentary are amorphous. Measurements of the three types are shown below:

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Materials used in manufacture of all recovered preform specimens include mottled blue and gray Fort Payne chert, light and dark gray banded, gray, tan, pink, brown and light gray chert.

Biface Knives (Figure 16). A single specimen was recovered from the fill of each of Stone Boxes 6 and 43 as well as from Level A of Squares N50E34 and N50E38. Three of the specimens are complete and the fourth fragmentary. These are thick flakes which have been bifacially flaked, exhibiting knife retouch along one or more lateral edges. Two of the specimens are ovate, one asymmetrical and the fourth lunate. The specimens, 39-51mm long, 31-40mm wide and 8-13mm thick, are manufactured from gray, blue and gray, and dark gray and tan mottled Fort Payne chert.

Flake Knives (Figure 15). The single specimen recovered from Level A of Square N50E38 consists of a large flat flake exhibiting
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<th>Provenience</th>
<th>Preform Knives</th>
<th>Stemmed Knives</th>
<th>Flake Knives</th>
<th>Thick Side Bifaces</th>
<th>Side Scrapers</th>
<th>End Scrapers</th>
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### Table 3: Lithic Artifact Distribution, Site 40SU20

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<th>Blades</th>
<th>Utilized Flakes</th>
<th>Gravers</th>
<th>Raclettes</th>
<th>Notched Flakes</th>
<th>Ground Cobbles</th>
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bifacial retouch along one lateral edge. The specimen, 36mm long, 21mm wide and 6mm thick, is manufactured from brown chert.

Stemmed Knives. A single fragmentary specimen having a contracting stem and exhibiting knife retouch and wear along both lateral edges was recovered from the backfill of the excavations. Wear also occurs along one lateral edge of the contracting stem. Although length of the specimen cannot be determined due to its fragmentary condition, its width is 35mm and thickness 8mm. Material used in manufacture is mottled blue and gray Fort Payne chert.

Thick Bifaces. Of the 7 complete and 11 fragmentary specimens from the site, 10 were recovered from the excavation backfill, 1 each from the fill of Stone Boxes 17, 46, 68, 79 and 90, as well as 1 each from Level A of Squares N50E40, N48E32 and N50E32. All the identifiable specimens are small to medium ovate forms which were discarded in the beginning process of thinning. The complete specimens, 52-86mm long, 27-45mm wide and 11-27mm thick, are manufactured from gray, and mottled blue and gray Fort Payne chert. Two fragmentary specimens are manufactured from tan as well as light green and white mottled chert.

Bifaces (Figure 16). Nine fragmentary specimens from the site include 2 from the excavation backfill, 1 each from the fill of Stone Boxes 4, 6, 14 and 79, as well as 1 each from Level A of Squares N50E38 and N44E30. Six of the specimens are thick flakes and the seventh a thin chert cobble which had been bifacially flaked and broken during the process of manufacture. The latter specimen is partially backed with cortex. Although lengths of the specimens are indeterminate due to fragmentary condition, they are 20-48mm wide and 8-12mm thick. Materials used in manufacture are brown, gray, blue and brown banded, tan, and blue and gray mottled Fort Payne chert.

Raclettes (Figure 16). The 4 specimens, 1 each from Level A of Squares N50E32, N50E38, Level B of Square N52E38 and the fill from Stone Box 9, consist of 1 flat, 1 decortication, and 2 bifacial thinning flakes exhibiting short segments of abrupt unifacial retouch around each flake circumference. Materials used in manufacture include mottled blue and gray Fort Payne chert and pale green and tan chert.

Gravers (Figure 16). The 2 specimens recovered from Level A of Square N50E34 and the fill from Stone Box 46 consist of 1 flat flake and 1 shatter fragment which have been retouched along one and two edges respectively, isolating a triangular projection. Retouch also occurs along both lateral edges of one specimen, thereby suggesting its additional use as a knife. The specimens, 30-36mm long, 15-21mm wide and 3-6mm thick, are manufactured from light and dark gray cherts.

Notched Flakes (Figure 16). Of the 2 specimens from the site, 1 was recovered from the backfill of the excavations and the other from Level B of Square N50-52E36. One specimen consists of a bifacial thinning flake with a single-blow notch at the center of one lateral edge. The notch exhibits fine retouch along one edge surface. The second specimen consists of a thick decortication flake with a multiple-
blow notch at the ventral end on one lateral edge. Steep retouch occurs along one surface of the notch. Materials used in manufacture consist of mottled blue and tan chert.

Utilized Flakes (Figure 16). A total of 18 specimens was collected from the site. Of this total, 3 were recovered from the backfill, 2 from Level A of Square N44E32, 1 from Level B of Square N52E38-40 and 1 each from Level A of Squares N50E32, N50E38, N50E36, N50E34, N50E28 and N50E40. The specimens consist of flat, decortication and bifacial thinning flakes showing utilization in the form of regular or irregular localized retouch along one or more edges. Materials used in manufacture consist of gray, mottled blue and gray, blue and gray banded, and tan Fort Payne chert.

Retouched Blades (Figure 16). One specimen from the fill for Stone Box 46, and one each from Level B of Squares N50-52E36 and N52-E40, are flakes whose lengths are twice their widths. Previous flake scars are exhibited which indicate that flake removals have occurred from the same striking platform. Slight retouch is exhibited on two edges of one specimen and on one edge of two specimens. The specimens are 31-36mm long, 15-19mm wide and 3-4mm thick. Materials used in manufacture include dark gray and mottled blue and gray Fort Payne chert.

Scraper-on-Biface. A single specimen was recovered from Level A of Square N50E36 and consists of an incompletely bifaced having a single straight working edge formed by a line of steep retouch on one face. The line of retouch is 25mm long and is centered at the basal end of the biface. The specimen, 40mm long, 48mm wide and 20mm thick, is manufactured from mottled tan and white chert.

End Scrapers (Figure 15). Three specimens recovered from the site include 1 from the backfill of the excavations, 1 from the fill of Stone Box 22 and 1 from Level A of Square N44E42. All the scrapers are worked on thick flakes with one to two convex working edges formed by a continuous line of steep retouch on one face. One of the scrapers exhibits knife retouch along one lateral edge and the base, suggesting its additional use as a knife. The three scrapers are 26-50mm long, 28-40mm wide and 5-18mm thick. Material used in manufacture includes gray as well as tan and white banded and mottled chert.

Side Scrapers (Figure 15). Of the 6 specimens collected at the site, 3 were recovered from the backfill of the excavations and 1 each from Level A of Squares N48E30, N50E32 and N50E40. All the scrapers are worked on thick decortication flakes and have a single straight to convex working edge formed by a continuous line of steep retouch on the lateral margins of the flakes. Materials used in manufacture are tan, gray, light and dark gray banded, and light and dark gray mottled chert.

Stemmed Scrapers (Figure 15). Two specimens were recovered from the site, 1 from Level A of Square N50E36 and the other from Level B of Square N52E40. One specimen is a stemmed projectile point.
The second specimen consists of a straight stemmed projectile point fragment that has been retouched to form a convex working end. This specimen is 17mm long, 21mm wide and 7mm thick. The line of retouch is 18mm long.

Both specimens are manufactured from gray Fort Payne chert.

Drills. Two distal ends and 1 midsection of drill shanks were recovered from the site. Of these, 2 were found in the backfill of the excavations and 1 from the fill of Stone Box 19. Basal or hafting ends are indeterminate. Materials used in manufacture are pink, dark gray, and light and dark gray banded chert.

Perforator-on-Biface. The single specimen recovered from the backfill consists of a thick biface having a rodlike projection worked on the distal end. Retouch occurs along one lateral edge of the projection. The specimen is 75mm long, 48mm wide and 23mm thick, while the length of the rodlike projection is 18mm. Material used in manufacture is gray chert.

Rectangular Gorgets (Figure 17). A single fragmentary specimen recovered from Level B of Square N52E38 exhibits one unidirectional solid drill hole and two grooves on one surface, indicating its latest use as a whetstone. The specimen had probably had two holes, since it had been broken at its approximate center between the holes. Although the overall length of the specimen is indeterminate, its width is 53mm and thickness 5mm. Material used in manufacture is dark gray slate.

Hammerstones (Figure 17). A single specimen exhibiting battering over half its edges and surface was recovered from the backfill of the excavations. Material used in manufacture is dark gray chert.

Ground Cobbles (Figure 17). Two specimens recovered from the backfill of the excavations consist of sandstone and chert cobbles which exhibit abrasion wear at both ends and along the edges of the long axis.

Debitage. The small quantity of lithic debris from the site has been separated into several categories which generally include cores and flakes. Of the 660 pieces collected, 656 are flakes and 4 are cores and fragments. The various flake categories were not individually separated, as the collection of debitage was not assessable for detailed analysis.
CERAMIC ANALYSIS

Due to the salvage nature of the 40SU20 site excavation, the small ceramic sample, and the fact that the principal habitation area of the adjacent village site was not investigated, no attempt has been made at this time to interpret the data in terms of provenience. Instead, the data will be categorized according to the numbering system at the site with respect to ware types, vessel forms and surface treatment (decoration).

It should be noted that the 586 sherds and two intact pottery vessels recovered from the excavations, burials and backfill may not be representative of the entire period of the site's occupation nor of the total range in terms of vessel form and decorative treatment. With the exception of a single sand-tempered Woodland Period sherd, all the sherds and intact pottery vessels from the site were associated with the Mississippian Period habitation.

Mississippian ceramics are generally classified in terms of coarse utilitarian wares as well as higher quality "fine wares" with those distinctions based upon size of tempering materials (crushed shell) and the nature of the clay used in manufacture.

Fine ware has a tendency to be smoothed, polished or burnished. It is now recognized that surface lustre is an impermanent characteristic dependent on polishing as well as the nature of the clay and other factors. The most useful criterion for sorting the two wares is the clay paste itself. Fine ware has a finely-textured paste characterized by the small size of the crushed shell temper which is usually 1 millimeter or less. The fine shell-tempered ware recovered from the 1977 excavations at site 40SU20 includes that classified as Bell Plain (Phillips 1970; Faulkner 1977). The only representative of this ware from 40SU20 is a small conch shell effigy bowl associated with Burial 44.

The coarse wares from the site generally have a more roughly-textured paste characterized by medium to coarse crushed shell tempering in excess of one millimeter in size. The coarse wares from the site include those classified as Mississippi Plain and Salt Pan Fabric Marked (Phillips 1970; Faulkner 1977). Also included are several sherds of a presently unnamed cordmarked ware. Vessel forms represented at 40SU20 include salt pans and medium to large subglobular jars with loop, strap and bifurcated lug handles.

Mississippian assemblages generally include five basic vessel forms: jars, bowls, bottles, pans and plates.

Of the 568 ceramic sherds recovered from the site, 552 are Mississippi Plain (Figures 18 and 19), 11 Salt Pan Fabric Marked (Figure 18), 4 cordmarked and 1 sand-tempered plain. Also included are 1 intact Mississippi Plain 4-lobed subglobular jar and 1 intact Bell Plain small conch shell effigy bowl (Figure 20).
FIGURE 20. Ceramic vessels from Burial No. 44. a. Conch shell effigy bowl. b. Lobed jar.
The majority of sherds from the site were recovered from the fill of the 96 stone burial boxes. However, since stone boxes were not backfilled with earth at the time of interment of the deceased, it is likely that the majority of sherds occurring in the stone boxes had been washed in along with the earth fill.

Additionally, there were also several stone boxes at 40SU20 with floors composed of large shell-tempered pottery sherds. Similar box floors have also been observed at other Mississippian sites in Middle Tennessee.

Within the Mississippian ceramic tradition was the practice of manufacturing vessels whose forms had been made to resemble the shapes of owls, ducks, frogs, turtles, dogs, fish, humans, gourds and marine sea shells. The term "effigy" has been used to describe the above vessel forms. Many of the more elaborate examples of such vessels have highly burnished (polished) exterior and interior body surfaces and are generally believed to be non-utilitarian in regard to everyday household use. However, many examples of effigy vessel forms are not burnished, such as the conch shell effigy bowl from Burial 44 at 40SU20 (Figure 20).

It is of interest that the vast majority of the sherds from site 40SU20 belong to subglobular jars as well as globular jars with constricted necks. These functioned as utilitarian vessels at sites where found. Additionally, none of the sherds in the collection exhibit incised or punctated surface decoration. However, it is probable that such decorated wares would have been evident had investigations included the principal village habitation area.

Although no carbon samples for radiocarbon dates were obtained from 40SU20, similar ceramic forms have been noted and dated at other Mississippian sites in Middle Tennessee and elsewhere. The 1973 Noel Cemetery Site (40DV3) excavations in Nashville produced a radiocarbon date of A.D. 1220±45 (730±45 years ago) (Benthall 1983:77). Radiocarbon dates from other excavated Mississippian sites within the immediate area of Nashville and vicinity include the following: Averbuch Site (40DV60), Davidson County, A.D. 1255±50 (731±50 years ago) and A.D. 1425±55 (561±55 years ago) (Berryman 1980:3); Ganier Site (40DV15), Davidson County, A.D. 1250±95 (736±95 years ago) (Broster 1972:77); Mound Bottom Site (40CH8) Cheatham County, A.D. 950±80 (1036±80 years ago), A.D. 1040±50 (946±50 years ago), A.D. 1130±60 (856±60 years ago), and A.D. 1280±110 (706±110 years ago) (O'Brien 1977:312-313); Sellars Site (40WI1), Wilson County, A.D. 1150±65 (836±65 years ago) and A.D. 1245±65 (705±65 years ago) (Butler 1981:54).

Distribution of the ceramics from site 40SU20 is presented in Table 4.

Brief descriptions of the several recognized ceramic types from the site are as follows.
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Total 568
Bell Plain (Phillips 1970; Faulkner 1977) (Figures 20, 21)

Sample: 1 intact conch shell effigy bowl, 2 rim sherds, 2 body sherds.

Paste: The paste is tan to orange with a fine texture and moderate amounts of finely crushed shell.

Surface: The exterior surfaces range from orange on the two rim sherds to grayish-tan on the conch shell effigy bowl. Interior surfaces are grayish-tan and exhibit scraping on the two rim sherds. Cores of the two rim sherds are gray, but indeterminate with the intact bowl. Both interior and exterior surfaces of all specimens exhibit dark firing clouds.

Form: The two rims are representative of bowls with everted, flattened rims, which are at a 50° angle to the vertical body of the sherd. Based on the curvature of the sherds, the overall diameter of the bowl was 10 centimeters, with an estimated height of 6.5cm. Thickness of sherds is 4-5mm. The intact conch shell effigy bowl has an overall diameter of 74mm, orifice diameter of 50mm and an overall height of 47mm. The orifice of this bowl is severely constricted by convergent side walls that slope or curve inward at an acute angle from the point of maximum body diameter. The vertical profile of the body is semi-spherical with a rounded base. Appendages consist of a spout, vertical to the rim, and a single node encircled by 6 nodes beneath the rim opposite the spout-like appendage.

Comments: The two rim sherds were recovered from Level B of Square N52E38-40 and the conch shell effigy bowl from Burial No. 44. Sherds of bowls exhibiting similar node patterns have been noted from the Noel Cemetery Site (40DV3) (Benthall 1983:48), Sellars Site (40WI1) (Butler 1981:54) and Averbuch Site (40DV60) (Reed 1984:11.7.3). Bell Plain vessels are generally a minority ware at Middle Tennessee sites.

Mississippi Plain (Phillips 1970; Faulkner 1977) (Figures 18-21)

Sample: 525 body sherds, 21 rims, 1 lug, 1 loop and 2 strap handles.

Paste: The paste is tan, orange, or buff with a fine to coarse texture, and moderate to large amounts of fine to coarsely crushed shell. No sherds containing crushed limestone were found. The shell tempering is leached from approximately 30% of the sherds.
Surface: Exterior surfaces are smoothed and vary in color from tan, tannish-gray to orange and buff. Interior surfaces are scraped or smoothed and vary in colors from tan to orange, gray and buff. Both exterior and interior surfaces exhibit dark firing clouds.

Form: Vessel forms include small, medium and large subglobular jars, with constricted necks, rounded bottoms and straight to flaring rims with flattened to rounded lips. Loop handles appear on one jar, strap handles on two rim sherds, while a single example of a bifurcated lug handle occurs on a single rim sherd. Also included is a single, intact subglobular jar with four lobes having an overall body diameter of 13.5cm, an orifice diameter of 10.2cm and a height of 9.5cm. Appearing as concave depressions on the interior of the body, lobes extend 6 to 10mm above the general contour of the wall on the exterior surface where their convex margins usually extend to the juncture of the shoulder and neck. The body shape is spherical and the base rounded. The rim is slightly flaring with a rounded lip. Appendages consist of two opposing loop handles with single ears above the rim lip at points of attachment. Interior and exterior surfaces are mottled tan and buff with black firing clouds. Wall thickness is 4-6mm.

Comments: This vessel was found in association with Burial No. 44 and closely resembles similar forms found at other Mississippian sites in Tennessee and elsewhere.

Salt Pan Fabric Marked (Faulkner 1977) (Figures 18 and 21)

Sample: 1 rim, 10 body sherds

Paste: The paste is orange with a coarse texture and a large amount of coarsely crushed shell which has leached out of the sherds.

Surface: Interior and exterior surfaces are orange and cores of sherds gray to dark brown. Surface treatment consists of impressions executed with a coarse, loosely woven fabric.

Form: Vessel form is a large round or oval shallow pan with outward sloping walls and a thickened rim with a rounded lip. Thickness of the sherds is 10-11mm.

Comments: Salt pans are a common vessel form found on most Mississippian sites in Tennessee and elsewhere. The evaporation (boiling) of salt water from springs for salt production is believed to be the function of such vessels.
**Unidentified Cordmarked**

Sample: 5 body sherds

Paste: The paste is light tan to orange with fine to medium texture and moderate amounts of fine to medium crushed shell which has leached from the sherds.

Surface: Interior and exterior surfaces are tan to orange and sherd cores tan to orange. Surface treatment consists of impressions executed in a crisscross pattern with a fine cord.

Form: Although no rims were recovered, it is probable that vessel forms had been jars. Thickness of sherds is 5-6mm.

Comments: Comparisons of sherd collections from other sites in Middle Tennessee have indicated that cordmarked wares are comparatively rare. Cordmarked vessels were also a minority ware at Mississippian sites in Eastern Tennessee. At the Hiwassee Island site in Meigs County, for example, cordmarked sherds constituted only 3% of the total sherd collection (Lewis and Kneberg 1946:90-91). It is possible that the sherds can be identified with the McKee Island series.

**Unidentified Sand-Tempered Plain**

Sample: 1 body sherd

Paste: The paste is dark buff with a coarse, gritty texture and a large amount (40-50%) of sand evenly distributed throughout the clay.

Surface: Interior surface is black and exterior surface dark buff and moderately smoothed. The sherd core is black.

Form: Although no rims were found, it is probable that the vessel form had been that of a jar.

Comments: The smallness of the sherd precludes its assignment to any particular named ceramic series. However, it is probable that it dates from the preceding Woodland cultural period.
SUMMARY AND CONCLUSIONS

The brief excavations conducted at site 40SU20 have disclosed evidence that the site had been occupied intermittently over a relatively long period of time. The earliest occupation had occurred during the Early Archaic Period which lasted from approximately 8000-6000 B.C. Although no features were found, the recovery of a single Kirk Corner Notched projectile point serves as evidence of this culture.

Sometime within the period 6000-5000 B.C. people of the Middle Archaic culture occupied the high ground overlooking Mansker Creek and left evidence of their habitation on the site. Evidence of this occupation is noted by the recovery of Morrow Mountain, White Springs, Big Sandy and Benton projectile points, but no features relating to this cultural period were found.

Late Archaic occupation of the site is evidenced by a variety of stone implements and projectile points as well as a single refuse pit containing a fragmentary projectile point and two scrapers, located southwest of the burial mound. Recovered projectile point types include those classified as Adena, Ledbetter, McIntire, Delhi, Bacon Island and an unnamed type with a narrow, expanded stem. The Late Archaic cultural period generally occurred within the time span of 3000-900 B.C. The Terminal Archaic, which is generally considered to fall within the latest part of the Late Archaic phase, is represented by the Flint Creek and Cotaco Creek projectile point types at site 40SU20.

There is also evidence of a later site occupancy by peoples of the Middle Woodland Period which dates generally within the period A.D. 200-600 (Chapman 1985:70). Evidence of this cultural manifestation is noted in the recovery of Bakers Creek and small, thick, side notched projectile points. No related features were found.

The most significant evidence of habitation at site 40SU20 is the burial mound dating from the Mississippian occupation of the adjacent related village. Unfortunately, little can be said specifically regarding the village area, as it was not excavated due to its locality outside the proposed park boundaries. However, some general conclusions based on comparisons of derived data can be made, since archaeological investigations have been conducted at several Mississippian Period sites within the Nashville area and vicinity over the past fifteen years. The earlier explorations conducted by Gates Thruston (1890), Joseph Jones (1876), William Myer (n.d.) and others during the nineteenth and early twentieth centuries have also provided many insights regarding the habitation sites and lifeways of these early people.

The time span of the Mississippian cultural period is generally considered to have occurred within the period A.D. 900-1600. Although no carbon samples for dating were recovered from site 40SU20, C-14 dates from other sites within the area shed considerable light on the possible temporal placement of the site. Temporal placement of
Mississippian habitation within the Nashville Basin as suggested by C-14 dates at the Averbuch (40DV60) (Berryman 1980), Mound Bottom (40CH8) (O'Brien 1977), Noel Cemetery (40DV3) (Benthall 1983), Ganier (40DV15) (Broster 1972), Arnold (40WM5) (Ferguson 1972) and West (40DV12) (Dowd 1972) sites indicates a general time span of A.D. 820-1425. Site 40SU20 can be included within this period.

The Mississippian culture represented the pinnacle of prehistoric cultural development in the southeastern United States, including the Cumberland River Valley. At its peak, the Mississippian tradition is characterized by: (1) increase in population and more stable settlements; (2) the construction of earthen platform mounds on which were erected temples, council buildings, and residences of the elite; (3) the emergence of organized chiefdoms; (4) changes in the ceramic styles; (5) elaborate and well-developed religious ceremonialism; and (6) increased territoriality and warfare (Chapman 1985: 74).

Chiefs controlled large populations from centers that were the focus of economic, social and religious activities. Such centers (towns) have been recognized by their large size and the presence of platform mounds. A relatively large number of such centers evidently occurred within Middle Tennessee and controlled large territories within the area. Within the territories controlled were smaller towns, hamlets and farmsteads. The absence of large platform mounds at site 40SU20 suggests that it had been one of the lesser towns or hamlets which had been under the control or rule of the larger ceremonial centers (towns). Social organization was based on kinship and structured through hereditary ranked lineages. The individuals with the highest social rank resided in the ceremonial centers, while those of lesser rank were to be found in the outlying lesser towns.

Recent studies have shown that evidence of social rank and status is most often reflected in the cemeteries that were related to the various habitation sites. Burials containing elaborate grave goods are generally reflective of an individual of high social rank, while burials containing no grave goods might indicate an individual with low social rank (Autry 1983: 124). Locality of burials was evidently another factor in regard to rank and social status. Burials found in the large platform mounds or within the charnel houses situated on mounds are generally considered as individuals of high rank. All other persons were buried in outlying cemeteries or at random throughout the village.

The archaeological investigations at site 40SU20 have indicated the presence of a low mound containing stone box burials. The shallow nature of this mound suggests an early or beginning stage of construction.

The occurrence of Burials 44, 66, 78, 79, 80, 90 and 91 at deeper levels suggests that these were buried at an earlier date, then covered with a layer of earth to add to the height of the mound and accommodate additional burials. Although two burials (Nos. 19 and 44) contained associated grave goods, a large number of the remaining burials had been disturbed prior to the 1977 archaeological project. It is, therefore, difficult to determine the total number of burials which
might have contained associated grave goods. Conclusions regarding the nature of social rank, therefore, cannot be made.

From the analysis of the skeletal remains from the site, several interesting observations have been made. Of the fifty-three adult burials whose age and sex were determined, it is of interest that the death rate was highest for both males and females within the 30-35 year age category. Infant-child mortality was comparatively high, representing 34% of the total number of burials recorded. The greatest percentage of deaths occurred within the 3.5-6 year age category.

Although no pathological disorders were noted with infant and child burials, a relatively large number of such is noted among the adult population. Of the fifty-three identified burials, two males and seven females exhibited evidence of osteomyelitis or periostitis. Evidence of varying stages of arthritis was also noted in the skeletal remains of ten females and eleven males. The greatest percentage of osteomyelitis-periostitis noted in both males and females occurred within the 30-35 year age category. The highest incidence of arthritic disorders occurred among males 30-35 years of age. It is possible that the nature of activities and constant exposure of individuals to the natural elements were contributing factors to this disease.
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Coe, Joffre L.
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<td>Cridlebaugh, Patricia</td>
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