

ON BIBLIOGRAPHY #2B

HISTORIC STRUCTURES REPORT
PART III

001456

Architectural Data Section
on

McLEAN ICE HOUSE

6

Appomattox Court House National Historical Park

By: April,
Orville W. Carroll, Architect 1965

HISTORIC STRUCTURES REPORT

PART III

ARCHITECTURAL DATA SECTION

ON

McLEAN ICE HOUSE

Appomattox Court House National Historical Park

Prepared by
Orville W. Carroll
Architect
April 1965

for

United States Department of the Interior, National Park Service
Eastern Office, Design and Construction
Division of Architecture

HISTORIC STRUCTURES REPORT

PART III

ARCHITECTURAL DATA SECTION

ON

McLEAN ICE HOUSE

Appomattox Court House National Historical Park

A P P R O V A L S H E E T

RECOMMENDED

/s/ Lloyd M. Pierson
Superintendent

Date 5/28/65 memo (H30) to Regional
Director

Robert G. Hall
Chief, EODC

Date 5-19-65

APPROVED

Albert Tor
Regional Director, Southeast Region

Date 11-23-65

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Drawing No. NHP-ACH 3028-A, 1 sheet	
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(See McLean House Slave Quarters, Part III)	

I. FOREWORD

The Ice House, one of the numerous outbuildings surrounding the McLean House in 1865, is one of four that have been replaced since the McLean House was reconstructed in 1950. The reconstruction of the Well House in the front yard; the detached Kitchen and the Slave Quarters to the rear and the Ice House to the east, begin to complete the visual scene and the interpretive story of the McLean House as it existed in 1865, when the "War Between the States" ended in Wilmer McLean's parlor.

Orville W. Carroll
Architect
April 1965

II. HISTORICAL DATA

A. The Master Plan

The McLean House is indicated on the Base Map of the Master Plan as Building No. 2 and the McLean Ice House as Building No. 2b. Its location is shown about fourteen feet east and slightly north of the center of the McLean House.

B. Historic Structures Reports

A narrative account describing the historical background of the McLean House was written by National Park Service Historian Ralph Happel in 1940. Further elaboration on the background of the McLean Ice House was written and documented with drawings, sketches and photographs dating back to April, 1865, by National Park Service Historian Wescoat Wolfe in 1962. These reports form the basis of historical accuracy for the reconstruction of the Ice House.

Two reports, Part I and Part II, covering the Architectural Data Section for the Historic Structures Report, were written by Architect Orville W. Carroll in November 1963 and in February 1964. The Part II Report contained preliminary plans showing its appearance and the method of construction.

III. ARCHEOLOGICAL DATA

The Ice House site was partially excavated in 1962 under the supervision of Jack Walker. His report entitled Excavations of Appomattox Court House, 1962 Season, bound separately in two sections, forms the basis for most of the information on the size of the structure. Further exploratory work was undertaken in 1963, by the author and Park personnel, to determine the size of the ice pit. This information was recorded in the preliminary drawing showing the size of the ice pit.

IV. ARCHITECTURAL DATA

Contract No. 14-10-0131-1298 to reconstruct the McLean Ice House was awarded to J. E. Sears and Co., Inc. of Appomattox, Virginia. The contract also included the reconstruction of the McLean House Kitchen, Slave Quarters, and the restoration of the Mariah Wright House. The Ice House portion of the bid was \$2,325.00.

A pre-construction conference was held at the Park July 9th, with the Superintendent of the Park, G. E. Steele; the Contractor, R. E. Sears; Supervisory Architect, EODC, Donald Nutt and the writer acting as Project Supervisor.

Work on the site started Monday, July 13th, when the laborers erected a barricade fence around the Ice House site. Excavation of the ice pit was accomplished by machine digging on July 21. The excavated area was large enough to permit the four corner piers and the log cribbing forming the ice pit to be built in place (See Illustrations Nos. 1 through 4). The backfill soil was treated with pentachlorophenol every twelve inches in depth for termite control. The log cribbing was also treated for termite control prior to applying a moisture proof paper to the exterior surface.

The construction details of the Ice House are as shown on the working drawings (NHP-ACH 3028A). Rough vertical sawn lumber was used throughout. The exterior surfaces of the weatherboarding and decorative barge board were hand-planed and later treated with two coats of "Hydrozo",

a waterproofing solution. The roof shingles were cut to a maximum of 6" and a minimum width of 3-3/4". Upon completion of the roof, two flood coats of "Hydrozo" were applied to the shingles.

The oak foundation sills and the round oak logs forming the ice pit crib were furnished by the National Park Service. Sawdust was placed on the ice pit floor and around the edges of the pit to complete the interior.

A 4" terra-cotta (open joint) tile was placed on the north, east and west sides of the Ice House about 12" below the ground level. This tile is intended to carry off the roof and ground surface water. The drain line was extended to an existing foundation drain located at the northeast corner of the McLean House where it was connected to a branch "Y" fitting (See Illustration No. 5).

For purposes of displaying the interior of the Ice House to the public, a barrier will be required across the interior of the access door. This can be accomplished when the walks and fences are completed and the walking tour is laid out.

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

FACE SHEET FOR COMPLETION REPORT

Park Appomattox Court House NHP	Region SE	Work Order No. B-17
Location in Park Village Area	State(s) Virginia	Fund Symbol 14X1035 Construction NPS
☒ Contract and/or ☐ Day Labor	County or Counties Appomattox	Year Programmed F.Y. 1964 & 1965
		PCP No. NHP-ACH-3028A
Work Order Title Reconstruction of three McLean Out buildings, and Restoration of Mariah Wright House		Master Plan No.
		Master Plan Corrected By
		As Built Drawings By
		Date Started July 13, 1964
		Date Completed March 1, 1965

DESCRIPTION OF FIXED ASSETS (For completion by employee in charge of project)	TOTAL COSTS (For completion by FFO)
<u>100.6 - BUILDINGS</u> 7. <u>Historic</u> (Reconstruction) McLean Ice House	
TOTAL	\$

DISTRIBUTION		THE FIXED ASSET DESCRIBED ABOVE HAS BEEN COMPLETED IN ACCORDANCE WITH APPROVED DRAWINGS, SPECIFICATIONS, AND AUTHORIZED CHANGES	
No.	To	Submitted By: Orville Carroll	Title: Project Supervisor Date: 6/7/65
		Approved By: <i>Lloyd M. Pierson</i>	Title: Superintendent Date: 6/7/65
		COSTS VERIFIED	Title: Date:
		BY	

CONSTRUCTION PROJECT PROGRESS REPORT

Date _____

AREA Appomattox Court House National Historical Park PCP B-10-1

DRAWING NO. NHP-ACH 3028A (1 sheet)

PROJECT DESCRIPTION

Reconstruct McLean Ice House

BIDS OPENED, DATE June 18, 1964 Low Bid \$2,325.00 Contract No. 14-10-0131-1298

Project Started July 10, 1964

Programmed Amount

Contractor J. E. Sears Company, Inc.

Address Appomattox, Virginia

Construction Items		Unit	Quan. Estimates	As Built	Unit Cost	Per cent Complete											Total Cost
						10	20	30	40	50	60	70	80	90	100		
1	Site Preparation-Excavating Grading															\$ 282.50	
2	Concrete Work															75.00	
3	Stone Work															270.00	
4	Carpentry and Mill Work															1,212.50	
5	Sheet Metal															172.50	
6	Painting and Finishing															172.50	
7	Hardware															75.00	
8	Miscellaneous Items															35.00	
9																50.00	
10																	
11																	
12																	
13																	
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25																	

See Reverse Side for Narrative Report

ILLUSTRATION NO. 1

Excavation of the ice pit was accomplished by use of a "Back Hoe" and dump truck. The soil was stockpiled nearby and later used as backfill.

Photo: National Park Service
Orville W. Carroll, July 21, 1964

Neg. on file at Park



ILLUSTRATION NO. 2

Pouring the concrete piers for the stone footing bases at each corner. The concrete piers extend below the level of the ice pit which was made six feet deep.

Photo: National Park Service
Orville W. Carroll, July 29, 1964

Neg. on file at Park



ILLUSTRATION NO. 3

The workmen are shown cutting the "saddle and notch" joints in the logs that form the cribbing for the ice pit.

Photo: National Park Service
Orville W. Carroll, August 3, 1964

Neg. on file at Park



ILLUSTRATION NO. 4

The six foot deep ice pit has been completed with "sisal-kraft" paper placed on the outer wall prior to backfilling. The logs were sprayed with "pentachlorophenol" to prevent termite action in the future. The original depth of the ice pit was approximately 17 feet, but only six feet was reconstructed to give the visitor an idea of its construction on the interior.

Photo: National Park Service
Orville W. Carroll, August 6, 1964

Neg. on file at Park



ILLUSTRATION NO. 5

A terra-cotta drain placed on three sides of the Ice House (north, east & west sides) about 12" below the ground surface, was extended west to the McLean House and connected to the existing foundation drain under the porch.

Photo: National Park Service
Orville W. Carroll, August 12, 1964

Neg. on file at Park



ILLUSTRATION NO. 6

The carpenters are shown cutting and fitting the diagonal wind braces into the rafters of the Ice House.

Photo: National Park Service
Orville W. Carroll, August 27, 1964

Neg. on file at Park

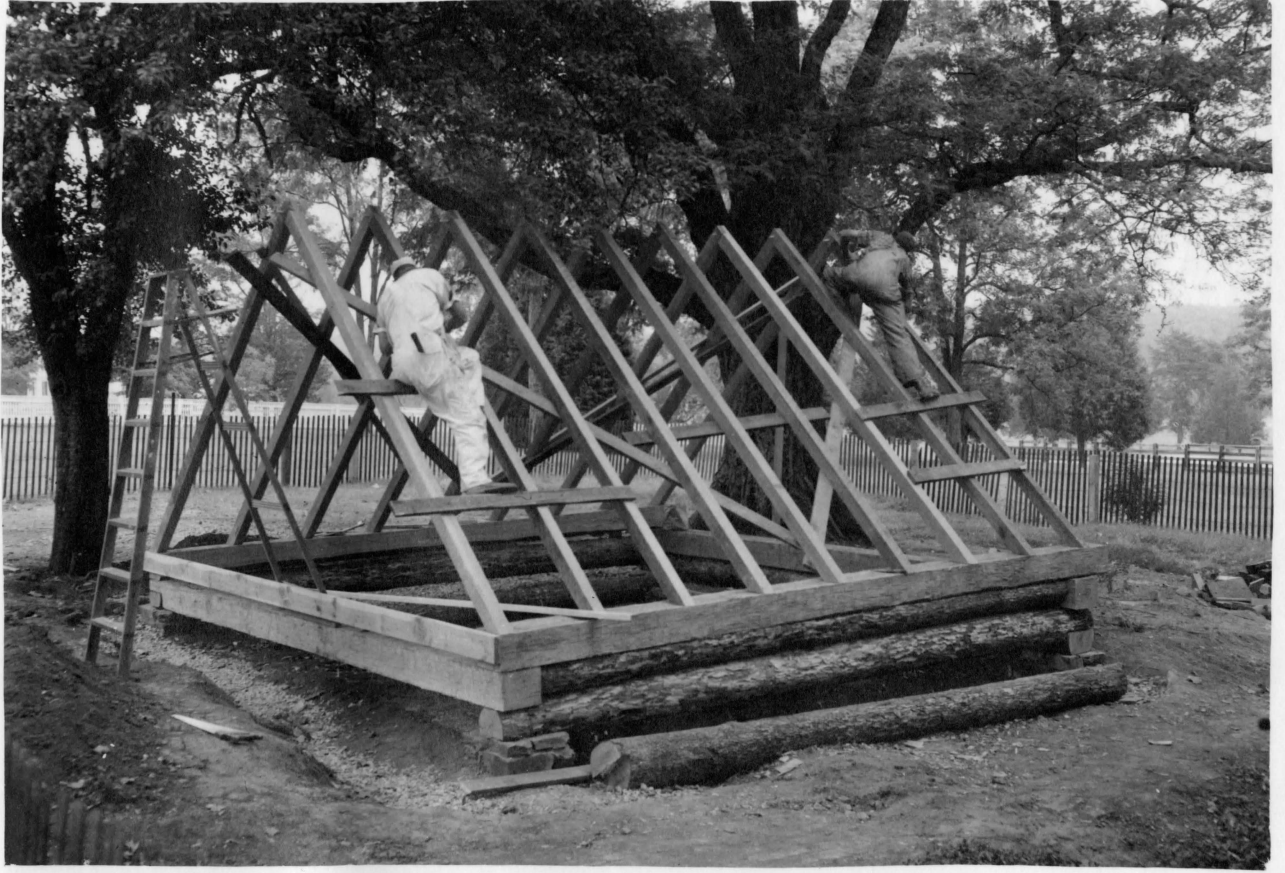


ILLUSTRATION NO. 7

Visitors to the Park looking over the
Ice House under construction.

Photo: National Park Service
Orville W. Carroll, September 4, 1964

Neg. on file at Park



ILLUSTRATION NO. 8

View of completed building from the northeast

Photo: National Park Service
Orville W. Carroll, September 4, 1964

Neg. on file at Park

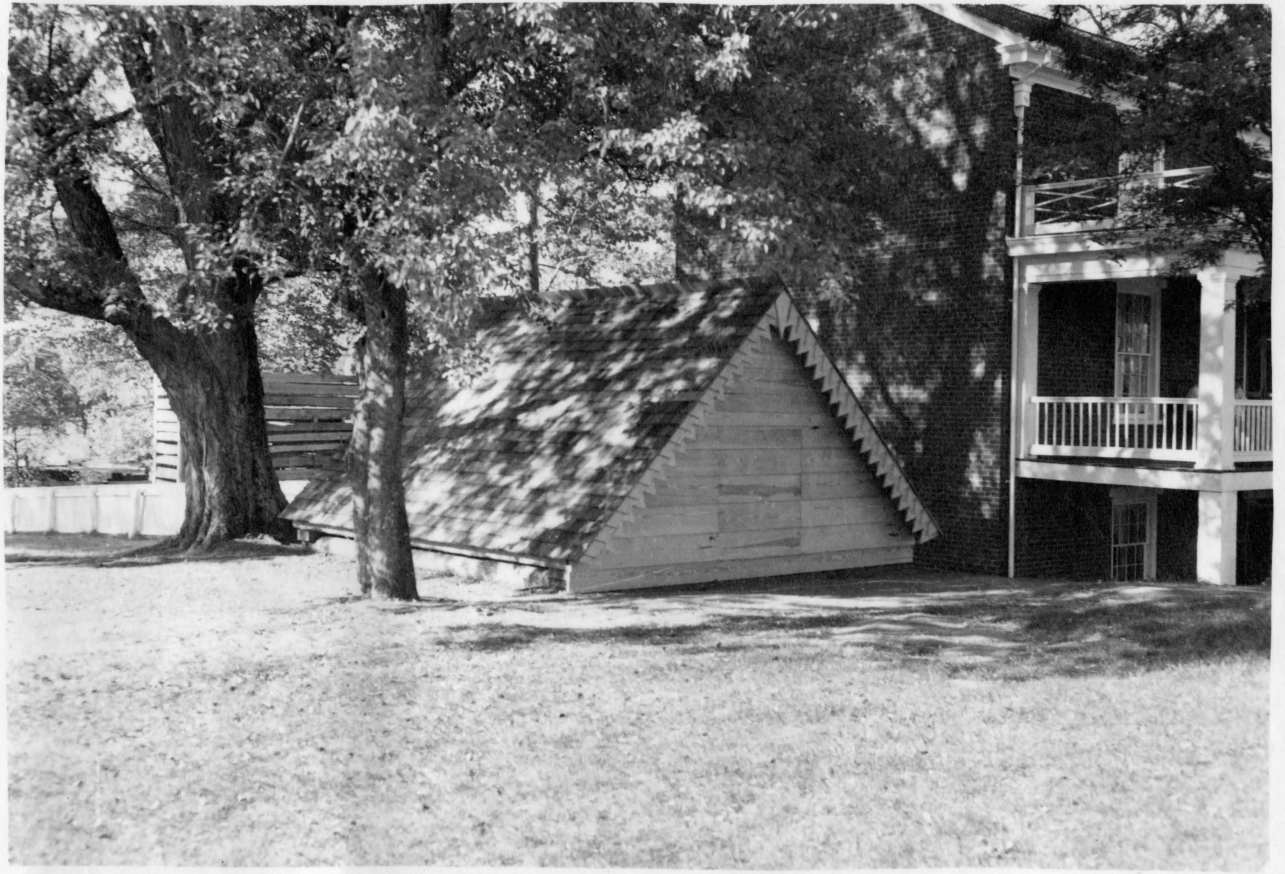


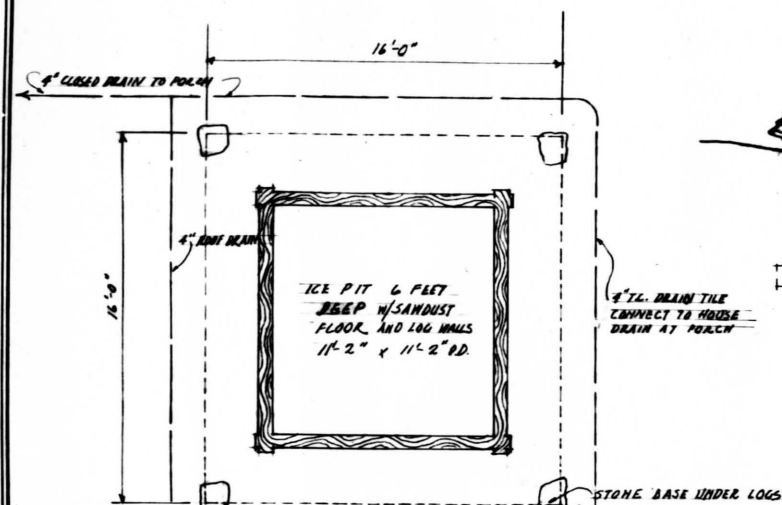
ILLUSTRATION NO. 9

Rear view of the completed building showing
the southwest corner.

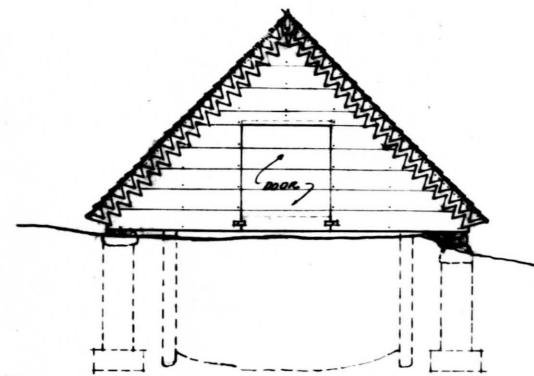
Photo: National Park Service
Orville W. Carroll, September 26, 1964

Neg. on file at Park

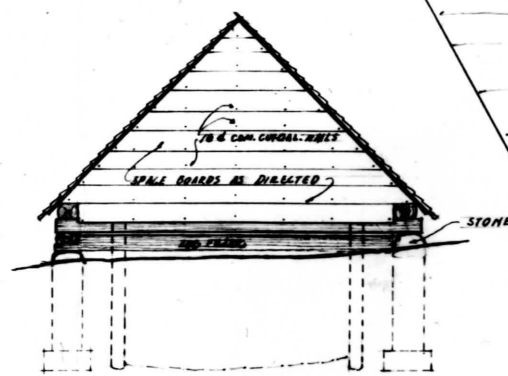




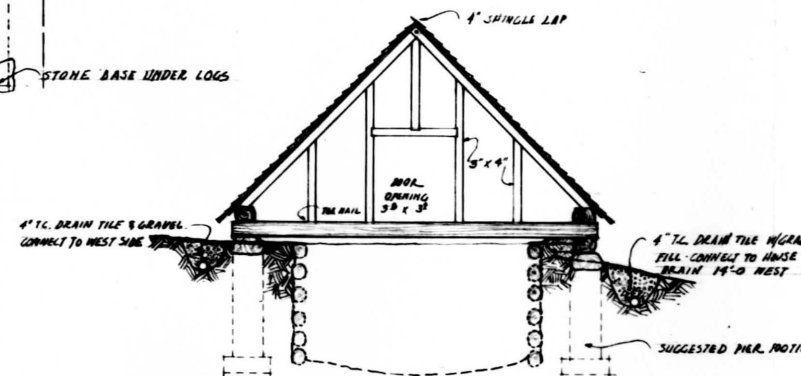
FOUNDATION PLAN



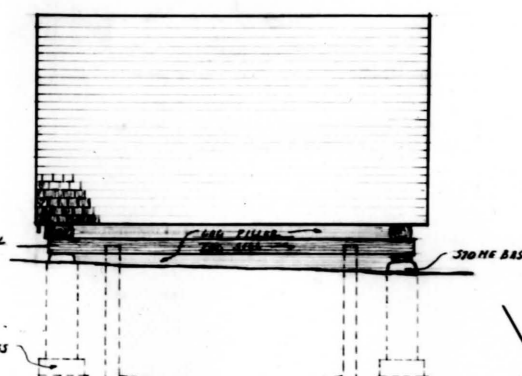
NORTH ELEVATION



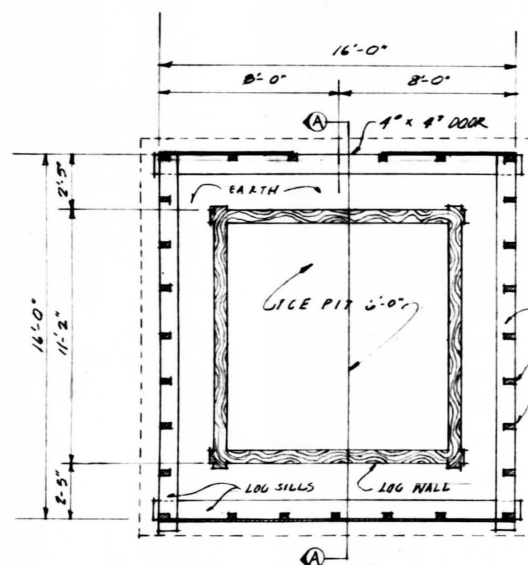
SOUTH ELEVATION



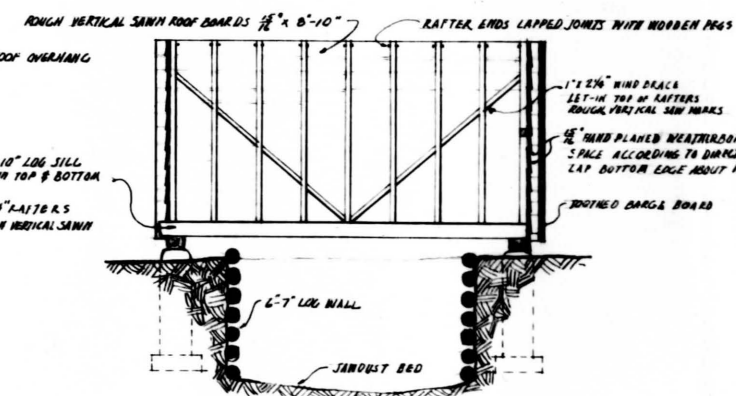
NORTH WALL FRAMING



WEST ELEVATION

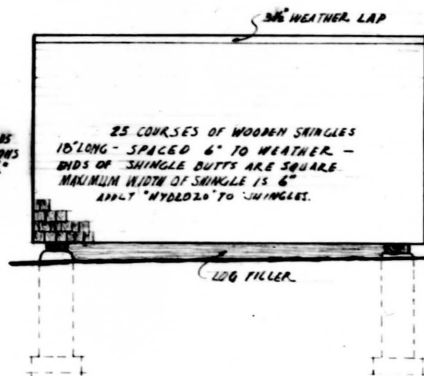


FRAMING PLAN

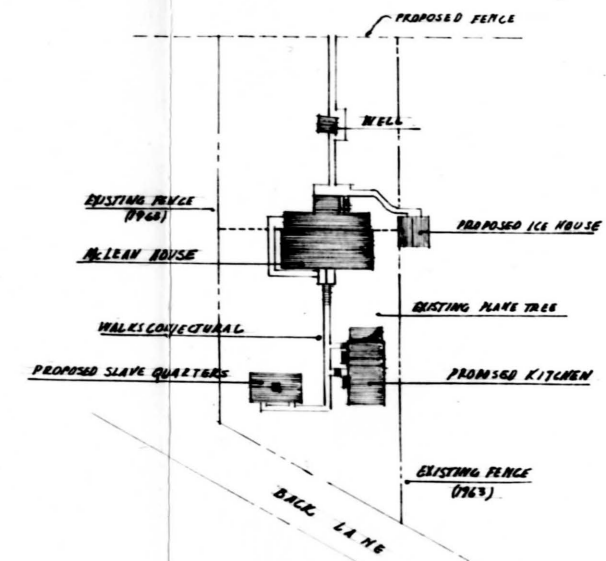


SECTION A-A

SCALE 1/4" = 1'-0"



EAST ELEVATION



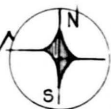
SITE PLAN

SCALE 1" = 50'

WORKING DRAWINGS

CHIEF BDC.	DATE	UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE DIVISION OF DESIGN AND CONSTRUCTION EASTERN OFFICE	REGION SOUTHEAST
SUPERINTENDENT, ACNHP		RECONSTRUCTION OF McLEAN ICE HOUSE	PCPB-10-1
REGIONAL DIRECTOR, SOUTHEAST REGION		VILLAGE AREA	SHEET 1 OF 1
APPROVED DIRECTOR		APPOMATTOX COURT HOUSE NATIONAL HISTORICAL MARK	DRAWING NO. NHP:ACN 3028-A
			DATE MAY 1968

BASIC DATA
RECONSTRUCT ICE HOUSE OVER ORIGINAL SITE - DESIGN OF ICE HOUSE BASED ON PHOTOS LOCATED IN ACNHP FILES - APPOMATTOX COUNTY - VIRGINIA



ORIENTATION
REVIEWED

OPERATIONS
REGION

WASHINGTON

INTERP.
REGION

WASHINGTON

COOP. ACTV.
REGION

WASHINGTON

DES. & CONST.
STERN

A. E.

L.A. WASHINGTON

A. E.

L.A.

OTHER

PREPARED

CARROLL

DESIGNED

CARROLL

DRAWN

H.A. JUD

CHECKED

REVIS

DATE

INITIAL