

United States Department of the Interior
National Park Service

NATIONAL REGISTER OF HISTORIC PLACES
REGISTRATION FORM

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1. Name of Property

=====

historic name: Pennsylvania Furnace Mansion

other name/site number: Lyon Mansion

=====

2. Location

=====

street & number: .10 mi. W of Route 45, just S of Centre County line

not for publication: N/A

city/town: Pennsylvania Furnace (Franklin Township)

vicinity: N/A

state: PA county: Huntingdon code: 061

zip code: 16865

=====

3. Classification

=====

Ownership of Property: Private

Category of Property: Buildings

Number of Resources within Property:

Contributing	Noncontributing
2	1 buildings
_____	_____ sites
_____	_____ structures
_____	_____ objects
2	1 Total

Number of contributing resources previously listed in the National Register: 0

Name of related multiple property listing: Industrial Resources of
Huntingdon County

4. State/Federal Agency Certification

As the designated authority under the National Historic Preservation Act of 1986, as amended, I hereby certify that this 'X' nomination request for determination of eligibility meets the documentation standards for registering properties in the National Register of Historic Places and meets the procedural and professional requirements set forth in 36 CFR Part 60. In my opinion, the property 'X' meets does not meet the National Register Criteria. See continuation sheet.

Dr. Brent Glass [Signature] Signature of certifying official

November 30, 1989 Date

Pennsylvania Historical & Museum Commission State or Federal agency and bureau

In my opinion, the property meets does not meet the National Register criteria. See continuation sheet.

Signature of commenting or other official

Date

State or Federal agency and bureau

5. National Park Service Certification

I, hereby certify that this property is:

entered in the National Register See continuation sheet.

determined eligible for the National Register See continuation sheet.

determined not eligible for the National Register

removed from the National Register

other (explain):

Signature of Keeper

Date of Action

6. Function or Use

Historic: Domestic

Sub: Single Dwelling

Current : Domestic

Sub: Single Dwelling

4. State/Federal Agency Certification

As the designated authority under the National Historic Preservation Act of 1986, as amended, I hereby certify that this nomination request for determination of eligibility meets the documentation standards for registering properties in the National Register of Historic Places and meets the procedural and professional requirements set forth in 36 CFR Part 60. In my opinion, the property meets does not meet the National Register Criteria. See continuation sheet.

Signature of certifying official Date

State or Federal agency and bureau

In my opinion, the property meets does not meet the National Register criteria. See continuation sheet.

Signature of commenting or other official Date

State or Federal agency and bureau

5. National Park Service Certification

I, hereby certify that this property is:

- entered in the National Register See continuation sheet.
determined eligible for the National Register See continuation sheet.
determined not eligible for the National Register
removed from the National Register
other (explain):

Signature of Keeper Date of Action

6. Function or Use

Historic: Domestic Sub: Single Dwelling
Current : Domestic Sub: Single Dwelling

7. Description

Architectural Classification:

Federal

Other Description:

Materials: foundation stone roof asphalt
walls stone other

Describe present and historic physical appearance. X See continuation sheet.

8. Statement of Significance

Certifying official has considered the significance of this property in relation to other properties: locally.

Applicable National Register Criteria: A C

Criteria Considerations (Exceptions) :

Areas of Significance: Industry
Architecture

Period(s) of Significance: 1834-1888@ -

Significant Dates : 1834@

Years of Alterations:

Significant Person(s): N/A

Cultural Affiliation: N/A

Architect/Builder: unknown

State significance of property, and justify criteria, criteria considerations, and areas and periods of significance noted above. X See continuation sheet.

=====

9. Major Bibliographical References

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X See continuation sheet.

Previous documentation on file (NPS):

- preliminary determination of individual listing (36 CFR 67) has been requested.
- previously listed in the National Register
- previously determined eligible by the National Register
- designated a National Historic Landmark
- X recorded by Historic American Buildings Survey # PA-611
- X recorded by Historic American Engineering Record # PA 061.072

Primary Location of Additional Data:

- X State historic preservation office
- Other state agency
- X Federal agency
- Local government
- University
- Other -- Specify Repository: _____

=====

10. Geographical Data

=====

Acreage of Property: .9

UTM References: Zone Easting Northing Zone Easting Northing

A	17	752345	4509955	B	_____	_____
C	_____	_____	_____	D	_____	_____

_____ See continuation sheet.

Verbal Boundary Description: X See continuation sheet.

Boundary Justification: X See continuation sheet.

=====

11. Form Prepared By

=====

Name/Title: Deborah L. Suci - Historic Preservation Specialist

Organization: PHMC-BHP

Date: July 1989

Street & Number: Box 1026 State Museum

Telephone: (717) 783-5796

City or Town: Harrisburg

State: PA ZIP: 17108-1026

United States Department of the Interior
National Park Service

NATIONAL REGISTER OF HISTORIC PLACES
CONTINUATION SHEET

Section number 7

Pennsylvania Furnace Page #2

DESCRIPTION OF APPEARANCE:

Like Huntingdon Furnace, the Pennsylvania Furnace lands once extended for many miles in Huntingdon and Centre Counties. This property included mines, timber lands, farms, and residential and industrial sections operations as well as the buildings and structures necessary for the successful production of iron. These buildings and structures included an iron stack, storage structures for ore and charcoal, residences, schools, mills, farm buildings, management housing and its associated outbuildings. Of those structures which can document association with the iron operation, few retain their integrity of material or design. The ironmasters mansion and one outbuilding were the only eligible resources identified in this survey.

The ironmaster's mansion was built in 1834. It is an L-shaped house constructed of native limestone which measures approximately 50 x 70 feet and varies in height from two-and-a-half stories on the southeast end to a full four stories on the northwest end. The fenestration of the three-and-a-half-story five-bay front (northeast facade) is strictly symmetrical, and includes a paneled entrance door framed by a transom and sidelights and three gable-roofed dormers. The strict symmetry of the southeast gable end is achieved by six false windows (appearing as closed shutters), along with double chimneys and a pair of small six-over-six attic windows. The southwest and southeast walls and rooflines of the rear ell present a unique variation on the "half-gable ell," typically seen in local examples as a one-and-a-half story wing with half a gable roof. Here the ell is three stories on the southeast and four on the southwest, with what could be described as half a gambrel roof, although the pitch of the upper slope is almost flat. The hip-roofed porch on stone piers across the front facade dates from about 1920; the second-story porch on the southeast side of the ell is probably original. The house retains most of its period detail, both inside and out although a one story, stuccoed addition on the northwest side was apparently added after the 1962 drawings. [See HABS drawings for more details of this mansion.]

Further northwest sits a four-square, four-door clapboard privy with a hip roof and a stone foundation. While the date of

United States Department of the Interior
National Park Service

NATIONAL REGISTER OF HISTORIC PLACES
CONTINUATION SHEET

Section number 7

Pennsylvania Furnace Page #3

=====
construction cannot be pinpointed, it is likely that this
structure dates from the period of significance.

Within the boundaries also sits a white clapboard building with stone foundations and a gable roof. It has a door, a low narrow window and a second story window in the northwest end and low windows on the southwest side. The building is presently used for storage but half of it was originally built and used as a corncrib. A date of construction cannot be determined and it might well have been constructed later than the period of significance. It has been classified as noncontributing.

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National Park Service

NATIONAL REGISTER OF HISTORIC PLACES
CONTINUATION SHEET

Section number 8

Pennsylvania Furnace Page #2

SIGNIFICANCE:

The Pennsylvania Furnace or Lyon mansion is the largest of Huntingdon County's ironmaster's houses and one of the best preserved, retaining much of its Federal period detail, including cast iron fireplace inserts, hand-made hardware, and a transom and sidelights around the central door. This building is also the only standing structure associated with the furnace and several forging operations once in extended production at this vicinity. The large house was occupied by the Lyon family who owned and operated the iron facilities for several generations.

In 1813, a partnership of John Lyon, Jacob Haldeman, and William Wallace established a well-capitalized iron furnace on the Huntingdon-Centre County line. Powered by Spruce Creek, the operation was named Pennsylvania Furnace, and by 1820 employed seventy men and produced 1000 tons of pig iron annually. Robert T. Stewart was an owner, with Lyon, by that date. During the following decade, additional partners were taken in to form variously named firms which established or bought shares in Sligo forges, Tyrone forges, and Huntingdon Furnace, as well as the Sligo rolling mill in Pittsburgh. Whatever his other involvements, John Lyon seems to have maintained his strongest interest in Pennsylvania Furnace, and in 1834 built the twenty-eight-room mansion lived in by three generations of his family.

Pennsylvania Furnace was always part of an integrated operation, producing pig iron at the furnace, turning it into blooms at Sligo, Colerain, or Tyrone forges, and conveying it to the Sligo Works at Pittsburgh for rolling. The capacity of the furnace placed it among Central Pennsylvania's largest charcoal furnaces: from its initial production of about 1000 tons of pig iron annually, its output increased to 1500 tons by the 1820s and to almost 2000 tons in later years. Steam machinery was added in 1856, according to Lesley, who in 1859 described Pennsylvania as a "steam and water cold-blast charcoal furnace." The operation ceased in 1888.

Huntingdon and Centre counties' almost equal prominence as producers of Juniata Iron led to certain disputes over which could rightfully claim Pennsylvania Furnace as its own. An 1826 Bellefonte writer asserted that the "stack, nearly all the buildings, ore-bank, coaling-ground are within Centre County,"

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National Park Service

NATIONAL REGISTER OF HISTORIC PLACES
CONTINUATION SHEET

Section number 8

Pennsylvania Furnace Page #3

but the operation was consistently taxed and listed by the census in Huntingdon County. An early photograph of the furnace shows a sign post, perhaps marking the county line, immediately in front of the stack. The mansion house is clearly within the Huntingdon County border.

The mansion house is the only component of this once extensive iron plantation to be included in this nomination. It is the largest and most architecturally detailed ironmasters mansion in the county. Although other structures, buildings and sites once associated with the iron plantation have been identified only the mansion and the outhouse has retained its physical integrity. It is a fine example of Federal style architecture in Huntingdon County.

United States Department of the Interior
National Park Service

NATIONAL REGISTER OF HISTORIC PLACES
CONTINUATION SHEET

Section number 9

Pennsylvania Furnace Page #2

SOURCES:

Documents Relating to the Manufacture of Iron in Pennsylvania
(Philadelphia: Convention of Iron Masters, 1850).

Documents Relative to the Manufactures in the United States
[1832] Vols. III and IV (New York: Burt Franklin, 1969), pp. 351-53.

Huntingdon County, Pennsylvania: An Inventory of Historic Engineering and Industrial Sites, Historic American Building Survey/Historic American Engineering Record, National Park Service(unpublished, 1988).

Huntingdon County Tax Assessments for Franklin Township, 1813-1876.

[at Huntingdon County Historical Society]

Lesley, J.P. The Iron Manufacturer's Guide (New York: John Wiley, 1859), pp. 55-56.

Linn, John Blair. History of Centre and Clinton Counties, Pennsylvania (Philadelphia: Louis H. Everts, 1883), pp. 67, 408-9.

Pennsylvania Furnace Homecoming: A Short History of the Pennsylvania Furnace Area, 1790-1972 (n.p., 1972).

Shedd, Nancy S. HAER consultant, President-Huntingdon County Historical Society, interviews 1988-89.

U.S. Census. Products of Industry, 1820, 1850, 1860, 1870.

United States Department of the Interior
National Park Service

NATIONAL REGISTER OF HISTORIC PLACES
CONTINUATION SHEET

Section number 10

Pennsylvania Furnace Page #2

VERBAL BOUNDARY DESCRIPTIONS:

The boundary begins at the south side of a paved private drive where it meets the west side of Route 31091 approximately 900 feet north of the intersection of Route 31091 and State Route 45. From there the boundary heads southwest following the southeast side of the paved drive for approximately 300 feet, turning south then southeast with the drive as it rounds the corncrib building on its southwest end. The boundary continues east following along the northside of the drive to the west side of Route 31091 where it turns northwest along the west side of Route 31091 and returns to the point of origin.

BOUNDARY JUSTIFICATIONS:

The boundary includes the ironmasters mansion, a standing outhouse and a corncrib. To the northwest of the drive stands a garage and a shed neither of which date within the period of significance. While undoubtedly other associated outbuildings existed during the operation of the iron plantation, those which now stand outside the boundaries either cannot clearly document their association with the resource or have lost their integrity of material and design.

United States Department of the Interior
National Park Service

National Register of Historic Places
Continuation Sheet

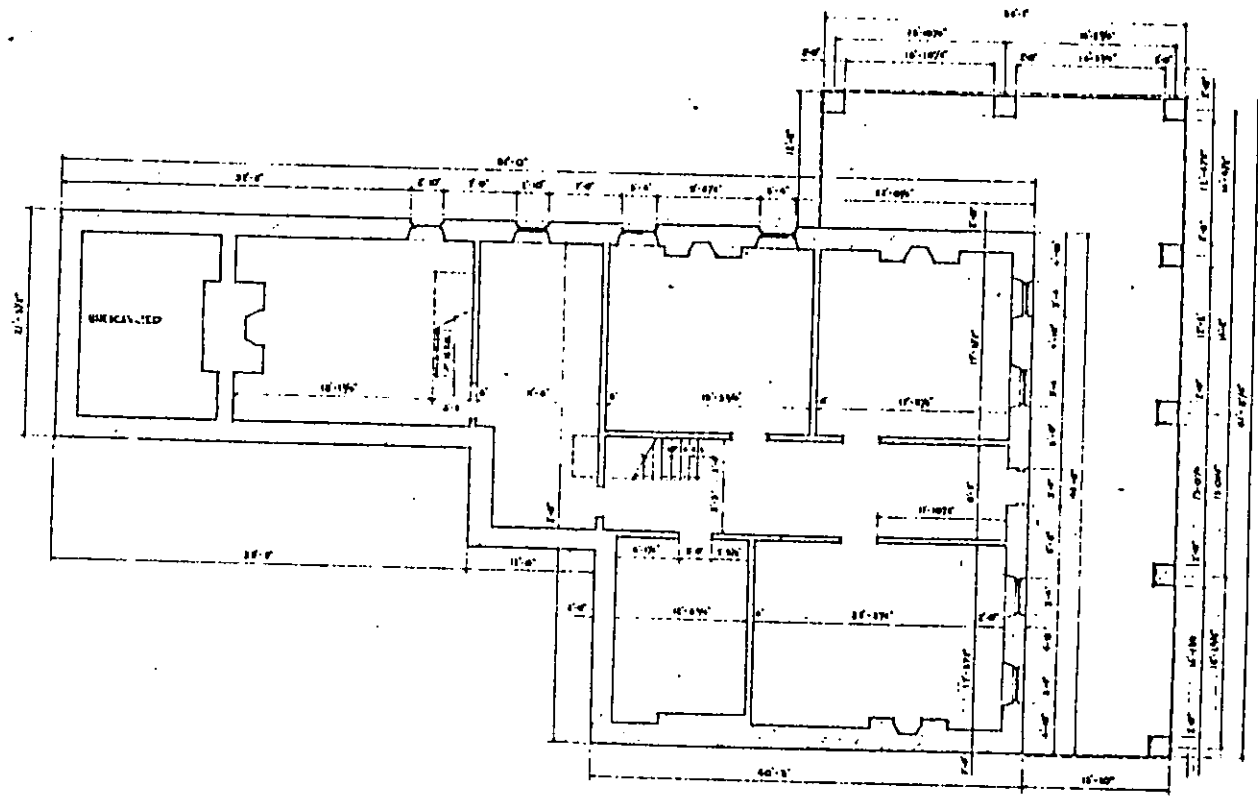
Pennsylvania Furnace

Section number 11 Page 1

This nomination contains material taken directly from the unpublished report prepared in 1988 for the Historic American Engineering Record (see Bibliographical References).

The author of that report, Nancy Shedd, is a major contributor to the text of this nomination although not the preparer.

This documentation was developed as a student project and dis-
 seminated to the Historic American Buildings Survey (HABS) is and
 not completed under HABS supervision or edited by HABS staff



BASEMENT PLAN
 SCALE 1/8" = 1'-0"



HISTORIC AMERICAN BUILDINGS SURVEY

A. ERNO KRIEGL
 JOHN J. DECKER
 DEPARTMENT OF ARCHITECTURE
 CORNELL UNIVERSITY OF TECHNOLOGY
 ITHACA, NEW YORK 14853, PENNSYLVANIA
 UNDER DIRECTION OF UNITED STATES DEPARTMENT OF THE INTERIOR
 NATIONAL PARK SERVICE, BRANCH OF PLANS AND SPECIFICATIONS

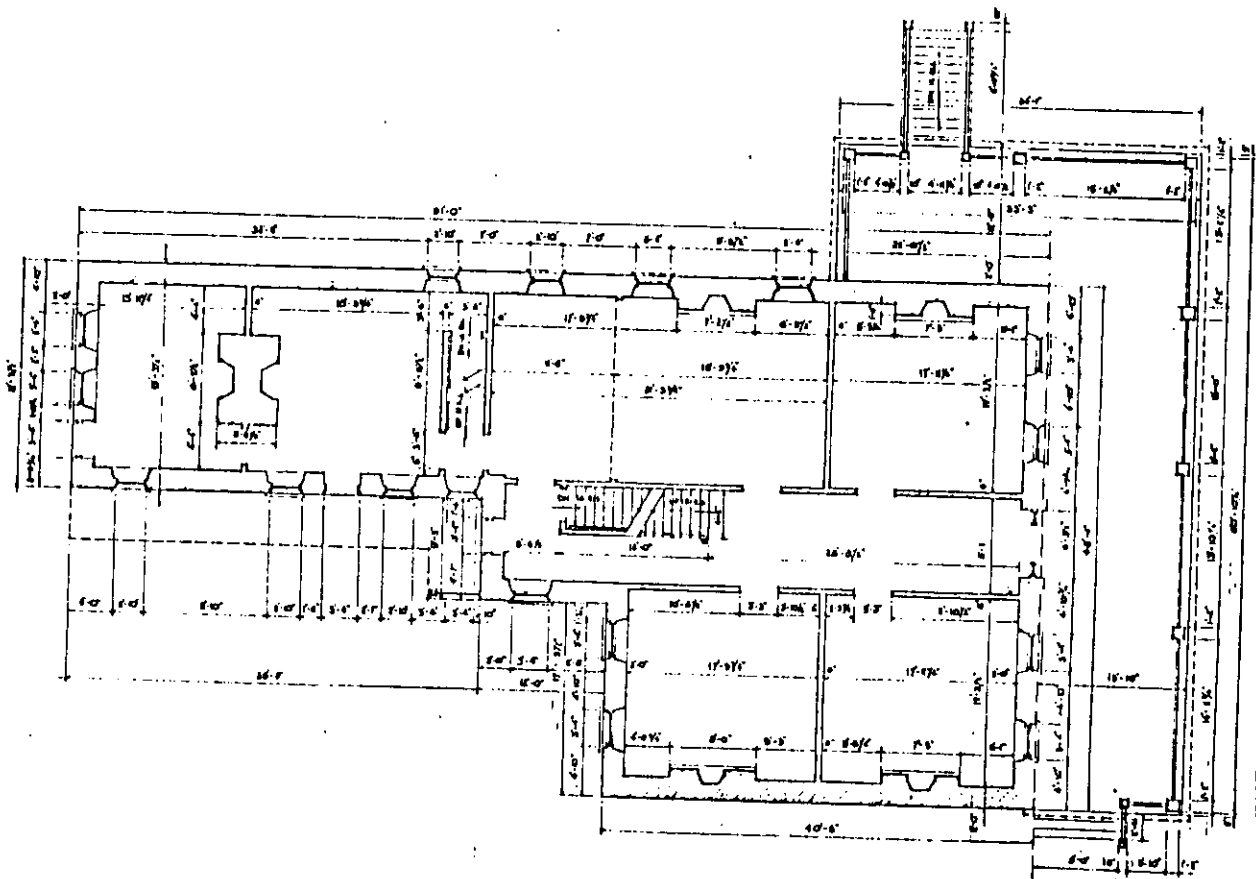
1962

NAME OF STRUCTURE
JOHN LYONS HOUSE (MANSION HOUSE)
 PENNSYLVANIA PURNACE ROAD, STATE R.T. 40, PENNSYLVANIA PARADISE (FRANKLIN TWP), HUNTINGDON CO., PA.

SURVEY NO.
 PA-611

HISTORIC AMERICAN BUILDINGS SURVEY
 SHEET 1 OF 3 SHEETS

DATE OF SURVEY
 1962



FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



1:12.5
SCALE

A ARNOLD KRIBEL
JOHN A DINGLER

1884

DEPARTMENT OF ARCHITECTURE
CIVIL & INSTITUTE OF TECHNOLOGY
PITTSBURGH 15, PENNSYLVANIA
UNDER DIRECTION OF UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE, BRANCH OF PLANS AND DESIGN

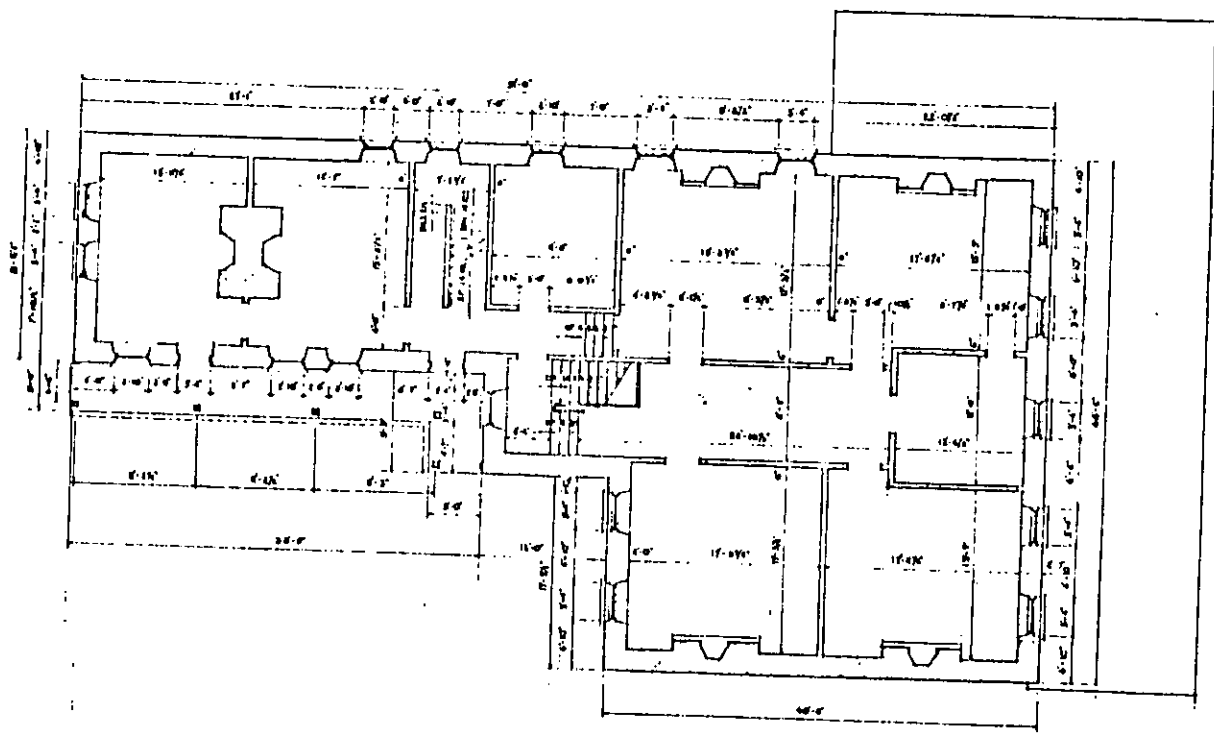
NAME OF STRUCTURE
JOHN LYONS HOUSE (MANSION HOUSE)
PENNSYLVANIA FURNACE CO NEAR ORTE RTE. 45, PENNSYLVANIA FURNACE (FRANKLIN TWP), HUNTINGDON CO, PA.

SURVEY NO.
PA-611

HISTORIC AMERICAN
BUILDINGS SURVEY
SHEET 1 OF 3 SHEETS

DATE OF SURVEY
MAY 1966

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SECOND FLOOR PLAN
SCALE: 3/8" = 1'-0"



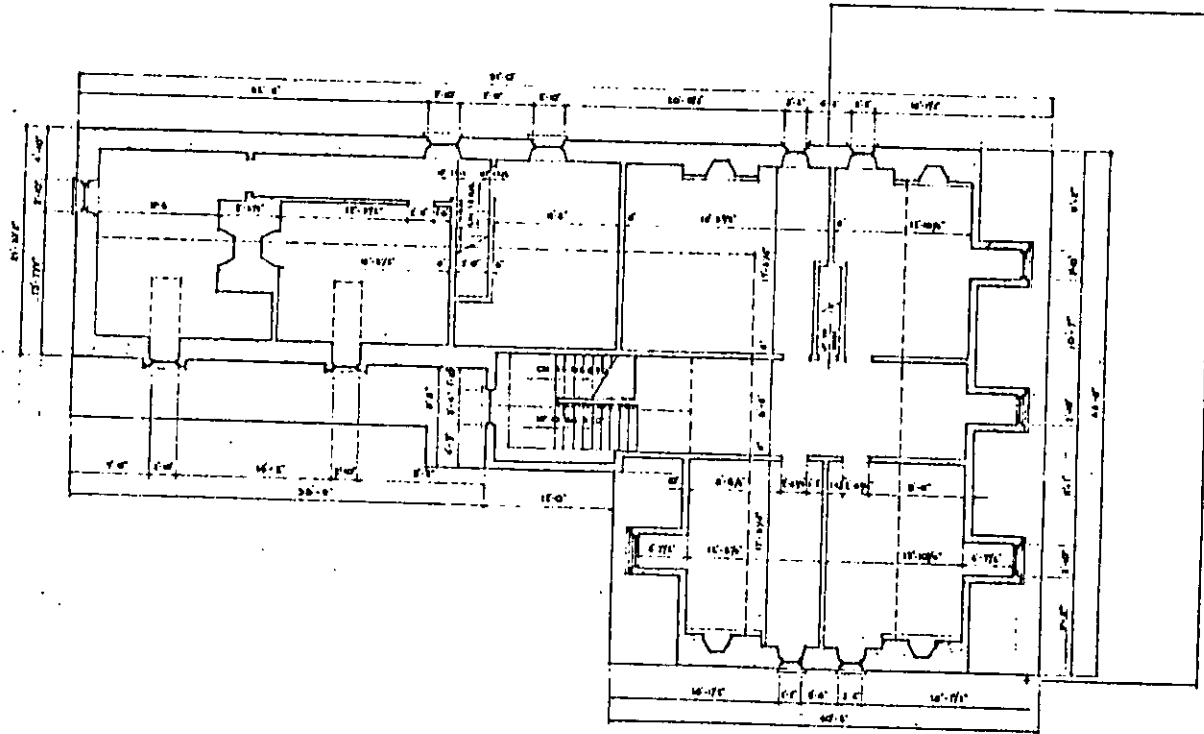
ERNO EDEL
JOHN L. DUELLER
1962
DEPARTMENT OF INTERIOR
COMMERCIAL INSTITUTE OF TECHNOLOGY
PITTSBURGH, PA., PENNSYLVANIA
UNDER DIRECTION OF UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE, BRANCH OF PLANS AND SPECIFICATIONS

NAME OF STRUCTURE
JOHN LYONS HOUSE (MANSION HOUSE)
PENNSYLVANIA FURNACE RD NEAR STATE RTE 45, PENNSYLVANIA FURNACE (FRANKLIN TWP), HARTINGOOD CO., PA.

SURVEY NO.
PA-611

HISTORIC AMERICAN
BUILDINGS SURVEY
SHEET 3 OF 5 SHEETS

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THIRD FLOOR PLAN
KCM-74-FD



BLISS
SCALE

LEONARD ERGEL
JOHN S. DEWLER

1962

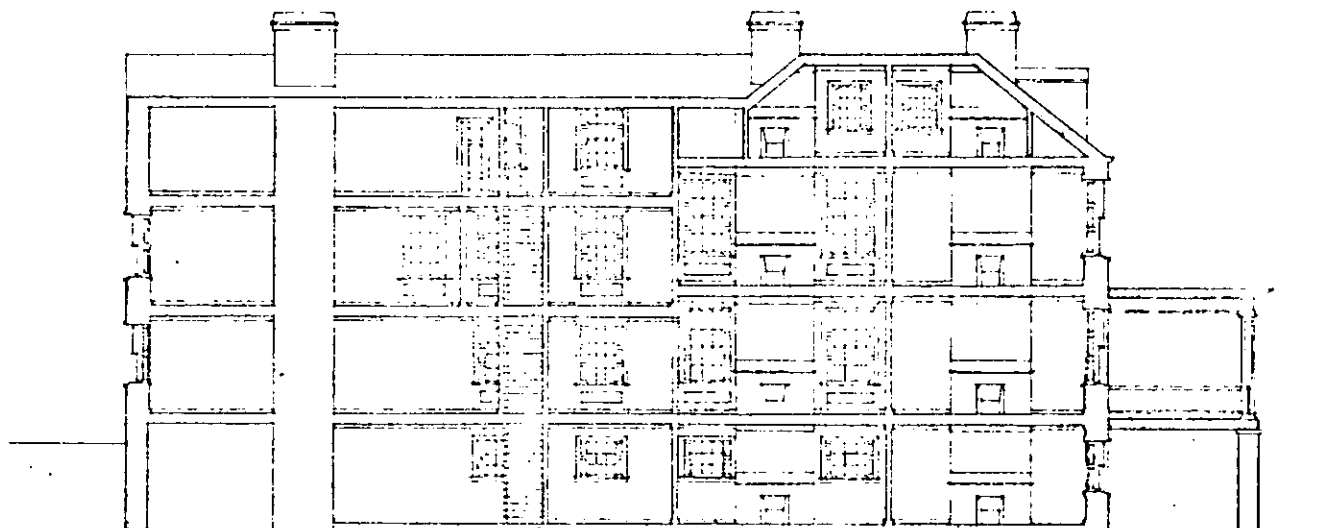
DEPARTMENT OF ARCHITECTURE
CORNELL UNIVERSITY
ITHACA, N.Y.

NAME OF STRUCTURE
JOHN LYONS HOUSE (MANSION HOUSE)
PENNSYLVANIA PURNACE RCN NEAR STATE RTE. 43, PENNSYLVANIA PURNACE (FRANKLIN TWP.), HUNTINGDON CO., PA.

SURVEY NO.
PA-611

HISTORIC AMERICAN
BUILDINGS SURVEY
SHEET 4 OF 3 SHEETS

DATE OF SURVEY
1962



LONGITUDINAL SECTION

SCALE - 1/8" = 1'-0"

A. ARNOLD KESSEL
JOHN A. DEWELER

1942

DEPARTMENT OF LAND AND NATURAL RESOURCES
BUREAU OF HISTORIC MONUMENTS AND STRUCTURES
PITTSBURGH, PENNSYLVANIA
UNDER DIRECTION OF UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE, BRANCH OF PLANS AND DESIGN

NAME OF STRUCTURE

JOHN LYONS HOUSE (MANSION HOUSE)

PENNSYLVANIA FURNACE RD NEAR STATE RTE. 45, PENNSYLVANIA FURNACE (FRANKLIN TWP), HUNTINGDON CO., PA.

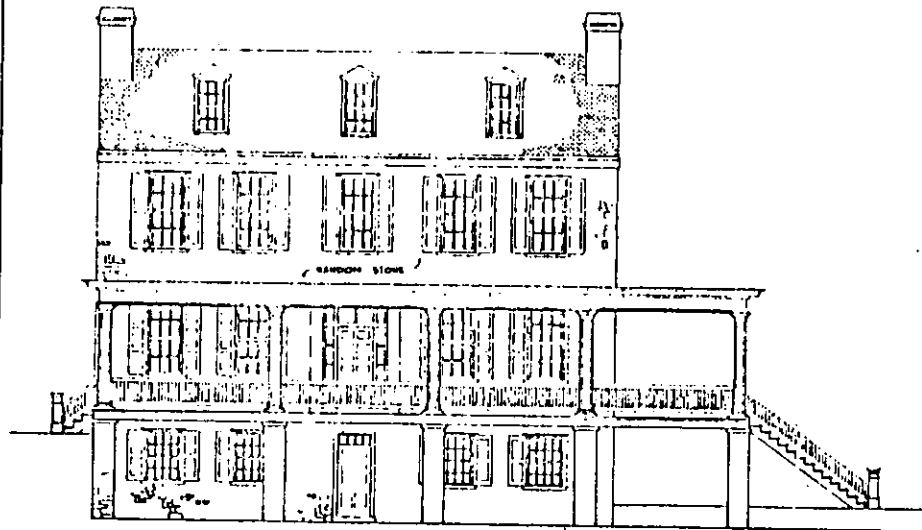
SURVEY NO.
PA-611

HISTORIC AMERICAN
BUILDINGS SURVEY
SHEET 5 OF 9 SHEETS

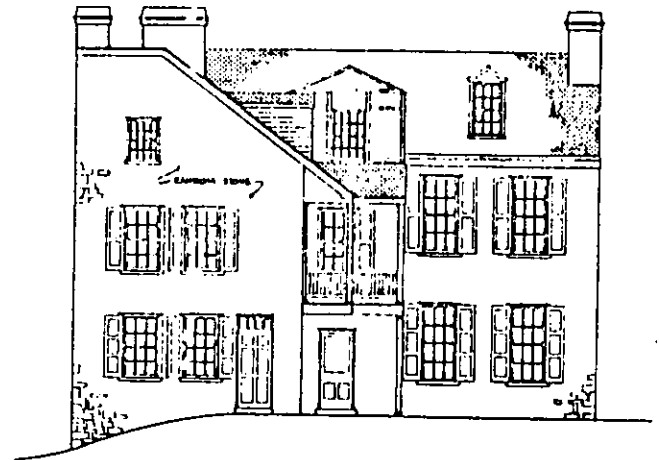
DATE OF SURVEY
1942

WILSON JONES
DRAWN BY
SCALE

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EAST ELEVATION
SCALE: 1/4" = 1'-0"



WEST ELEVATION
SCALE: 1/4" = 1'-0"

A BIRDSEY KNIGG
JOHN A. DENIER

1968

DEPARTMENT OF ARCHITECTURE
CORNELL UNIVERSITY
Ithaca, New York

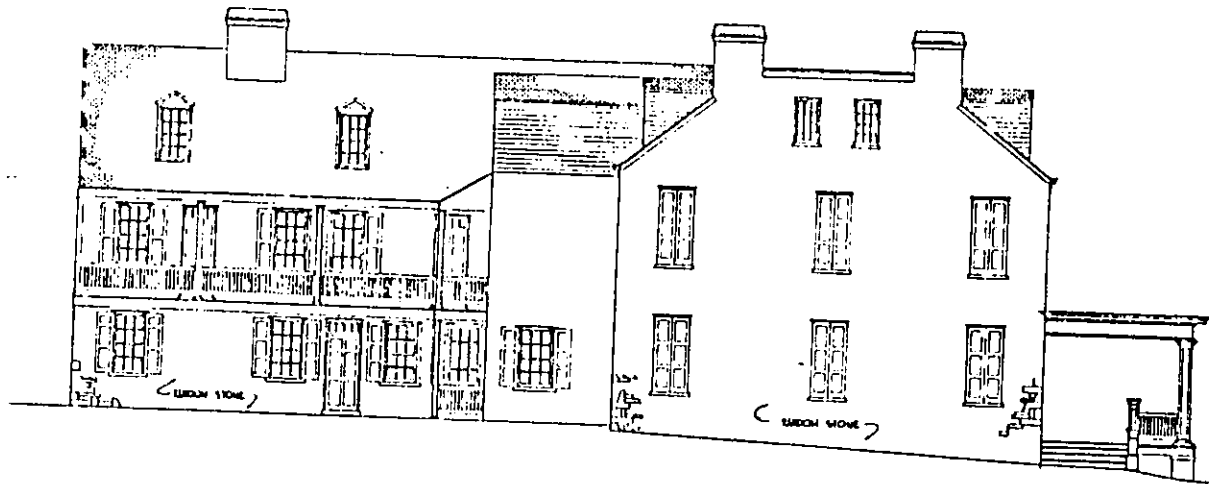
NAME OF STRUCTURE
JOHN LYONS HOUSE (MANSION HOUSE)
PENNSYLVANIA TURNPIKE RD. NEAR STATE RTE. 45, PENNSYLVANIA TURNPIKE (FRANKLIN TWP), HUNTINGDON CO., PA.

SURVEY NO.
PA-611

HISTORIC AMERICAN
BUILDINGS SURVEY
SHEET 6 OF 9 SHEETS

UNIVERSITY OF PENNSYLVANIA
SCALE

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 not need to be Historic American Buildings Survey (HABS). It was
 not completed under HABS supervision or edited by HABS staff



SOUTH ELEVATION
 0628-7211-01

A. RENOLD KRIGEL
 JOHN I. DENCKER
 1961
 DEPARTMENT OF INTERIOR
 OFFICE OF ARCHITECTURE
 GEORGE WASHINGTON UNIVERSITY
 PITTSBURGH, PENNSYLVANIA
 UNDER SUPERVISION OF UNITED STATES DEPARTMENT OF THE INTERIOR
 NATIONAL PARK SERVICE, BRANCH OF PLANS AND SPECIFICATIONS

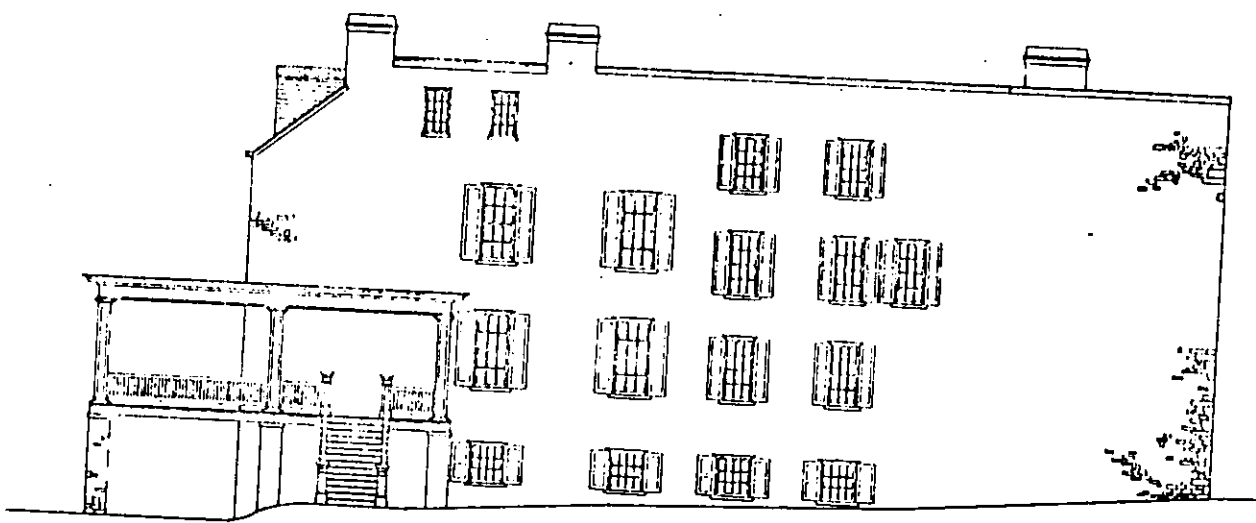
NAME OF STRUCTURE
JOHN LYON'S HOUSE (MANSION HOUSE)
 PENNSYLVANIA FURNACE RD. NEAR STATE RTE 45, PENNSYLVANIA FURNACE (FRANKLIN TWP), HUNTINGDON CO., PA.

SURVEY NO.
 PA-611

HABS
 SCALE
 HISTORIC AMERICAN
 BUILDINGS SURVEY
 SHEET 7 OF 9 SHEETS

OFFICE OF ARCHITECTURE
 NATIONAL PARK SERVICE

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NORTH ELEVATION
SCALE: 1/8" = 1'-0"

A. MICHAEL KRIGEL
JOHN J. DUNCKER

DEPARTMENT OF RECREATION,
CARNEGIE MUSEUM OF TECHNOLOGY,
PITTSBURGH, PENNSYLVANIA
UNDER DIRECTION OF UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE, BRANCH OF PLANS AND SPECIFICATIONS

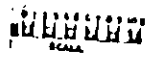
1961

NAME OF STRUCTURE
PENNSYLVANIA FURNACE RD. NEAR GYATE ETC. 45, PENNSYLVANIA FURNACE (HARRISBURG TWR), HUNTINGDON CO., PA.

SURVEY NO.
PA-611

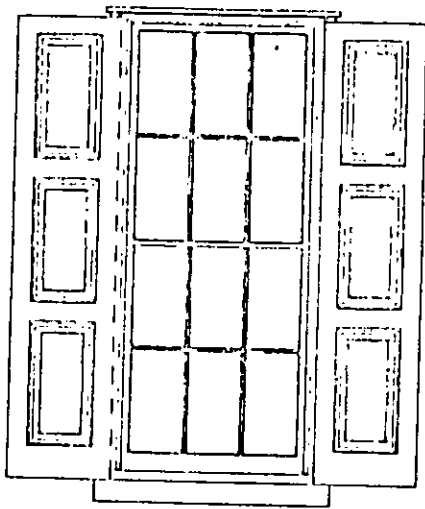
HISTORIC AMERICAN
BUILDINGS SURVEY
SHEET 6 OF 9 SHEETS

DATE OF SURVEY
1961

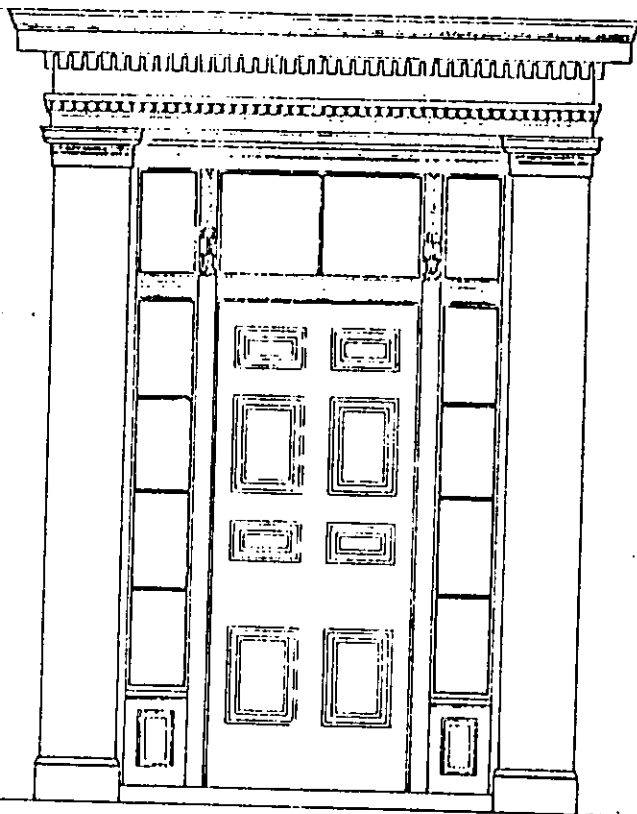


1/8" = 1'-0"

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WINDOW ELEVATION



DOOR ELEVATION

SCALE - 1/4" = 1'-0"

A. ARNOLD KAIGEL
JOHN A. DEWINTER 1962

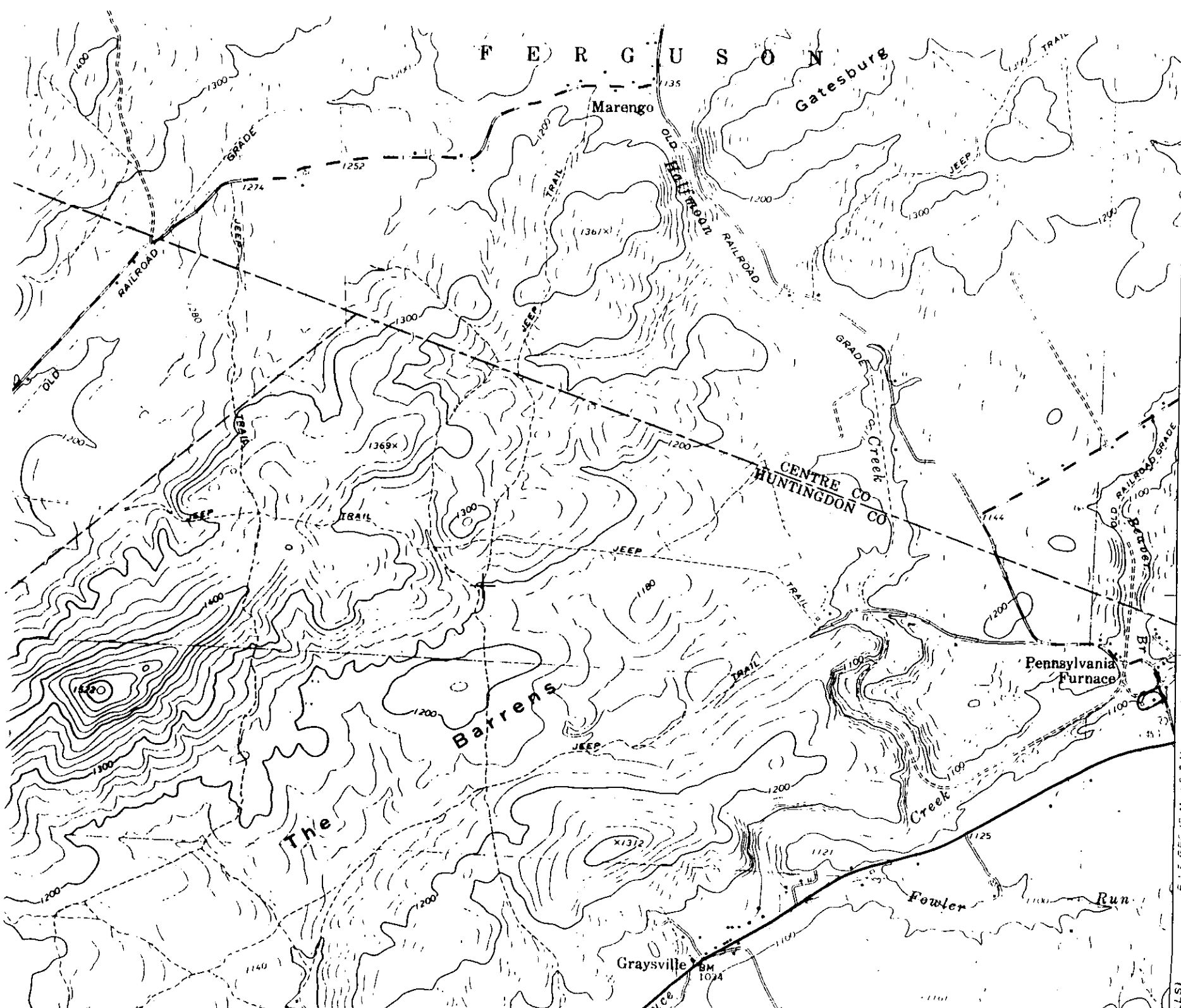
DEPARTMENT OF ARCHITECTURE
CORNELL UNIVERSITY
ITHACA, N.Y. 14853
UNIVERSITY OF PENNSYLVANIA
NATIONAL PARK SERVICE, BRANCH OF PLANS AND DESIGN

NAME OF STRUCTURE
JOHN LYONS HOUSE (MANSION HOUSE)
PENNSYLVANIA FURNACE RD NEAR STATE RTE. 49, PENNSYLVANIA FURNACE (FRANKLIN TWP), HUNTINGDON CO., PA.



1A-611

HISTORIC AMERICAN BUILDINGS SURVEY
SHEET 3 OF 3 SHEETS



510 000 FEET
(SOUTH)

4513

4512

42'30"

PENNSYLVANIA MANSION
HUNTINGTON CO.
4510 FANKLINVILLE AVE
ZONE 17
E 752345 N 4309935

FAIRBROOK - 3 M

STILL