

Rock Island Arsenal
Subaltern Officer's Quarters
(Quarters 4)
Terrace Drive between Gillespie Avenue
and East Avenue
Rock Island
Rock Island County
Illinois

HABS No. IL-1001H

HABS
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PHOTOGRAPHS

WRITTEN HISTORICAL AND DESCRIPTIVE DATA

Historic American Buildings Survey
National Park Service
Department of the Interior
Washington, D.C. 20013-7127

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HISTORIC AMERICAN BUILDINGS SURVEY

ROCK ISLAND ARSENAL
SUBALTERN OFFICER'S QUARTERS
(Quarters 4)

HABS No. IL-1001H

Location: Terrace Drive between Gillespie Avenue and East Avenue,
Rock Island Arsenal,
Rock Island,
Rock Island County, Illinois

USGS Davenport East Quadrangle,
Universal Transverse Mercator Coordinates:
15.704930.4599440

Present Owner and Occupant: U.S. Army

Present Use: Family housing

Significance: After taking command of Rock Island Arsenal in 1865, General Thomas Jefferson Rodman devised a master plan for the installation calling for the construction of ten large manufacturing shops, five on each side of the island's major east-west thoroughfare. These core manufacturing structures were supplemented by a variety of administrative, residential, maintenance, storage, and utility buildings. Although only a few buildings were erected prior to Rodman's death in 1871, subsequent construction under Rodman's nineteenth-century successors closely conformed to the original plan.

The Subaltern Officer's Quarters is one of three limestone residences for junior staff constructed during 1871 to 1874 under the Rodman plan (see also HABS Nos. IL-1001F, IL-1001G). Located in a residential district on the island's north-central shore, the buildings reflected the general Italianate detailing of the arsenal's Commanding Officer's Quarters, designed by Rodman and completed in 1871 (see HABS No. IL-1001E). An excellent example of Italianate architecture, the Subaltern Officer's Quarters still fulfills its original function as a staff residence. It is part of the Rock Island Arsenal National Register Historic District.

PART I. HISTORICAL INFORMATION

A. Physical History:

1. Date of erection: According to Colonel Daniel Webster Flagler, who supervised construction, the building site was selected in June 1871 and construction was completed during the summer of 1872 (Flagler, pp. 271, 321).
2. Architect: Captain Clifton Comly (Flagler, p. 277). Born in Ohio in 1842, Comly graduated from West Point in 1862, and served as a cavalry officer with the Army of the Potomac until 1863. In that year, he transferred to the Ordnance Department, serving at Watertown Arsenal from 1863 to 1864, and at Rock Island Arsenal from 1867 to 1871. During the 1880s, Comly was a gunnery instructor at West Point. He died in 1894 with the rank of major (Registrar of Graduates, p. 253; Heitman, p. 319; Flagler, p. 277).

Comly prepared plans for the Subaltern Officer's Quarters in the spring of 1871, while he was temporarily in charge of Rock Island Arsenal as a result of the illness of the commandant, General Thomas Jefferson Rodman. Comly's Italianate plan for the residence mirrored, though on a less grandiose scale, the general style and detailing of the arsenal's Commanding Officer's Quarters (see HABS No. IL-1001E), designed by General Thomas Jefferson Rodman and completed in 1871 (Flagler, p. 258).

3. Original and subsequent owners: U.S. Army.
4. Builder, contractor, suppliers: "All of the work . . . was done by day workmen, employed and paid by the Government. The work was directed and superintended directly by officers of the Ordnance Department stationed at the arsenal, and the necessary engineering work, calculations, making of tests, experiments, etc., was also done by the officers" (Flagler, p. 260).

Stone was probably supplied by W. A. Steel of Joliet, Illinois from quarries in that city. In 1871, Steel furnished, on a contract basis, limestone for Shops D and E, which were under construction at that time (Flagler, p. 286). Although Flagler does not credit Steel with supplying stone for the Subaltern Officer's Quarters, he notes that work on all three buildings was delayed by a contractor's inability to deliver stone on schedule (Flagler, pp. 320, 321). Presumably Steel was involved in all of the delayed projects.

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5. Original plans and construction: No original elevations have been located. First- and second-floor plans were published in 1876 (Plans of Officers' Quarters, p. 30). An early, undated photograph (see HABS Photo No. IL-1001H-10) shows the building's main facade in its present configuration, with the exception of the porch, which originally followed the contours of the main facade, with a projecting flat-roofed, central bay flanked on either side by flat-roofed, stepped-back sections. The present porch configuration, which extends in an unbroken line across the main facade, is shown in a photograph published in 1887 (First Album, n.p.). There are no original plans or early views of the garage, which was constructed in 1926 (Real Property Inventory, p. 5).
6. Alterations and additions: Before 1887, the stepped-back sections of the front porch were brought forward to form an unbroken line with the central bay. At an undetermined date, the building received a brick chimney addition at the east end of the south elevation of the main block.

B. Historical Context:

In June 1871, Colonel Daniel Webster Flagler selected several building sites on the north-central shore of Rock Island to serve as a residential district for the arsenal's subaltern officers. The sites were located due east of the Commanding Officer's Quarters, which was just nearing completion. Between 1871 and 1874, a total of three subaltern officers' quarters were completed (see also HABS Nos. IL-1001F, IL-1001G), which mirrored the general Italianate detailing of the Commanding Officer's Quarters. Until the early twentieth century, these residences provided the only married officers' housing at the arsenal. The Subaltern Officer's Quarters is still used as a staff residence. It has been designated as "Quarters 4" at least since 1918 (Map of Rock Island, 1918). (For further documentation see HAER No. IL-20.)

Prepared by: Jeffrey A. Hess
MacDonald and Mack Partnership
February 1985

PART II. ARCHITECTURAL INFORMATION

A. General Statement:

1. Architectural character: One of four contemporaneous limestone officers' quarters, Quarters 4 is a large, two-story limestone residence with a low, hipped roof having a flat upper deck. It has an irregular, rectilinear mass characterized by a main block and a smaller side wing with large front and rear porches. The house is an excellent example of High Victorian Italianate style architecture, especially in its use of an asymmetrical plan - a primary design goal of the Italianate style which was rarely achieved. The house has experienced relatively few modifications and alterations.
2. Condition of fabric: The house is well-maintained and is in good condition.

B. Description of Exterior:

1. Overall dimensions: The house has a highly irregular plan with a main block and a wing to the south and east of the main block connected by a large hyphen. The wing and hyphen are, hereinafter, referred to as the wing. The front elevation is three bays wide. Both the main block and the wing are two stories with a full basement and an unfinished attic.
2. Foundations: Above grade, perimeter foundations are brick with a veneer of smooth, dressed ashlar limestone exterior facing. Below grade there is a rock-faced limestone rubble foundation wall. A similar limestone wall supports brick foundation walls for interior brick bearing walls. The water table is smooth, dressed limestone.
3. Walls: Coursed, rock-faced ashlar limestone (HABS Photo Nos. IL-1001H-1, IL-1001H-2, IL-1001H-3, and IL-1001H-4), with smooth, rusticated limestone quoins at all exterior corners.
4. Structural systems: Exterior walls are load-bearing brick with limestone facing. Interior walls are load-bearing brick. Floor systems are sawn wood joists. Roof framing is sawn wood rafters and beams.
5. Porches: Across the north (front) elevation and extending along the east elevation of the main block to the wing is a full porch (HABS Photo Nos. IL-1001H-1, IL-1001H-2, and IL-1001H-4). Limestone piers support nine, elaborate, cast-iron columns. In the front center bay of the porch base is a set of poured concrete steps, flanked by cut limestone sides. Between the piers of the

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other bays of the porch have is diamond-pattern, wood lattice infill painted tan. Fronting the deck are wood facing beams between the piers. The deck is limestone in its center flanked by tongue-and-groove wood flooring. Between the bays of the columns are sets of cast-iron railings. At the tops of the columns are elaborate, filigree, cast-iron brackets. The entire porch is screened from floor to ceiling. The ceiling is painted tongue-and-groove boards. Molded wood fascia and eaves front a flat roof covered with metal roofing and flashing.

There is a porch (HABS Photo No. IL-1001H-3) across the entire south elevation of the main block. It rests upon four brick piers which support square wood posts. At the east end of the porch is a set of wood steps with railing. At the west a similar set of wood steps descends to grade without any railing. Centered in the south elevation is a canted wood cellar entry with a pair of hinged, board doors. Between the piers of the porch have are sets of diamond-pattern, wood lattice. The deck, facing edges, and ceiling are tongue-and-groove, board construction. Between the lower posts is a simple wood railing with plain balusters. All wood elements of the porch are painted tan to match the limestone. The wood fascia and eaves are set below a flat roof covered with metal roofing and flashing.

The south elevation of the hyphen portion of the wing is fronted by a small, inset porch (HABS Photo No. IL-1001H-3) flanked to its west by the main block and to its east by the wing, proper. Its construction matches that of the adjacent south porch of the main block. Its steps, located at the east end of the south elevation, have a thin pipe railing painted black.

6. Chimneys: Four original chimneys (HABS Photo Nos. IL-1001H-1, IL-1001H-2, IL-1001H-3, and IL-1001H-4) rise from either within the roof or at its side behind the eaves and cornice. Two rise from the west wall, a third rises from near the center of the east half of the main block, and the fourth rises from the center of the wing, proper. They are large, paneled, tan brick chimneys with corbelled caps. A modern chimney (HABS Photo No. IL-1001H-3) projects from the east end of the south elevation of the main block and rises from grade, cutting through the eaves and cornice. It is a thin, plain, tan brick chimney with a corbelled cap simulating the original chimney caps.

7. Openings:

- a. Doorways: The main doorway, centered in the central bay of the north elevation, contains a double-leaf door below a two-light, fixed, wood-sash transom. Each two-panel, walnut leaf walnut is varnished on its exterior face and painted white on

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its interior face. The opening has rough-dressed limestone jambs, a dressed limestone flat arch lintel with dressed keystone and semi-circular corners, and a dressed limestone sill block. The jamb faces and transom head are covered with panelled walnut facing. A pair of modern aluminum screen doors front the doors.

The kitchen, or rear, door opens from the small, south porch. The four-panel, wood door, painted on both sides, has a two-light, fixed, wood-sash transom. The opening has rough-dressed limestone jambs, a dressed limestone flat arch lintel with dressed keystone and semi-circular corners, and a dressed limestone sill block. The jamb faces and transom head have panelled wood facing. There is a modern aluminum screen door and sash fronting the doorway.

Near the center of the south elevation of the main block, a canted wood entry with a pair of hinged board doors leads to the hasement. The doors open to a set of poured concrete steps. At the bottom of the steps is a second doorway containing a plain board door with double-Z, wood bracing on its interior face. The door is set in a plain wood frame.

- h. Windows: First- and second-floor window openings (HABS Photo Nos. IL-1001H-1, IL-1001H-2, IL-1001H-3, and IL-1001H-4) contain four-over-four, double-hung, wood sash and have rough-dressed limestone jambs, dressed limestone flat arches with dressed keystones and semi-circular corners, and dressed limestone sill blocks. The windows are arranged either singly or in pairs and have aluminum storm sash. A small first-floor window opening (HABS Photo Nos. IL-1001H-1 and IL-1001H-2) at the north end of the east elevation of the main block contains a pair of angle-light, wood, casement sash. Basement window openings (HABS Photo Nos. IL-1001H-1, IL-1001H-2, IL-1001H-3, and IL-1001H-4) contain two-light wood awning sash set below the water table and have dressed ashlar limestone jambs, lintels, and sills.

8. Roof:

- a. Shape, covering: The main block roof is a truncated hip with a flat deck. The wing roof is hipped. The flat deck is covered with metal roofing and the remainder of the roof is covered with asphalt shingling.
- h. Cornice and eaves: The cornice and eaves (HABS Photo Nos. IL-1001H-1, IL-1001H-2, IL-1001H-3, and IL-1001H-4) are sawn and molded wood painted tan to match the masonry. The frieze contains panels between large brackets which support eaves with

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molded edges. The sheet metal interior gutter system drains into exterior leaders serving an underground system and, at one time, also filled a water tank in the wing attic.

C. Description of Interior:

1. Floor plans:

- a. Basement: The basement (HABS Photo No. IL-1001H-13) is divided into nine rooms closely corresponding to the first floor plan. The rooms are unfinished.
 - b. First floor: The first floor plan (HABS Photo No. IL-1001H-12) is a high-style Italianate interior with an asymmetrical plan. The main block has a foyer in the center of the north side. To its north and east is the main stair hall. A pair of parlors is located on the west side and the dining room fills the southeast corner. The hyphen portion of the wing east of the main block contains a service hall and two pantries. The wing, proper, contains a kitchen in its north and a laundry having a service stairway, in its south. There is a powder room tucked beneath the main stairway.
 - c. Second floor: The second floor plan (HABS Photo No. IL-1001H-11) corresponds closely with the first floor plan. The master bathroom, opening from the northwest bedroom is located above the foyer. The main hall is as on the first floor. Bedrooms are located in the northwest, southwest, and southeast corners. The two south bedrooms are separated by a bath and a short hall giving access to all three rooms. In the hyphen portion of the wing is a large bedroom. The wing, proper, contains two bedrooms with a bath and service hall separating them.
 - d. Attic: The attic is open and unfinished.
2. Stairways: The primary stairway (HABS Photo Nos. IL-1001H-5, IL-1001H-6, and IL-1001H-9) is located in the main hall. It is a U-shaped stair with a lengthy lower run rising to a landing with a short upper run rising to the upper main hall. The stair is open in its center and cantilevered from the adjacent hall walls on the other sides. It is walnut construction with a molded railing, turned balusters, an octagonal, tapering, newel post with square base and turned cap, open stringer, and vertical board wainscoting with a chair rail on the wall elevations. It runs from the first to the second floor, but not to the basement.

The wing stairway is a very narrow, straight-run stair with winders. From the first floor to the second, it is enclosed on both

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sides and has a modern wood rail. From the first floor to the basement, it is open at the basement level and has a plain, vertical, board infill supporting a simple molded wood rail.

There is a short set of steps located in the southwest closet of the bedroom above the byphen.

3. **Flooring:** Basement flooring is unfinished poured concrete. First-story flooring in the main block is covered with wall-to-wall carpeting (HABS Photo Nos. IL-1001G-5, IL-1001H-6, IL-1001H-7, and IL-1001H-8), and probably is varnished alternating ash and walnut boards as in the other quarters. The front entry floor is square black and white marble blocks laid in a diamond pattern. The first-story wing floors are wood covered with sheet linoleum. The second story has varnished narrow oak (not original to the house) flooring covered with wall-to-wall carpeting in the stair hall (HABS Photo No. IL-1001H-9) and some bedrooms. All bathroom floors are covered with ceramic tile of recent origin.
4. **Wall and ceiling finishes:** Basement walls are painted brick and limestone and the ceilings are painted plaster. First- and second-floor walls and ceilings (HABS Photo Nos. IL-1001H-5, IL-1001H-6, IL-1001H-7, IL-1001H-8, and IL-1001H-9) are painted plaster. Wainscoting is located along the primary stair to the second floor (HABS Photo Nos. IL-1001H-5 and IL-1001H-9), in the first-floor service hall, and in the second-floor wing bathroom. The service hall and bathroom wainscoting is painted, and the other wainscoting is varnished. Bathrooms typically contain modern ceramic tile wainscoting. Molded painted plaster cornices are located in the first (HABS Photo Nos. IL-1001H-5 and IL-1001H-6) and second-floor stair halls (HABS Photo No. IL-1001H-9), the parlors (HABS Photo No. IL-1001H-7), and the dining room (HABS Photo No. IL-1001H-8). Elaborate, painted, plaster, ceiling rosettes are centered in the ceilings of the foyer, the main stair hall (HABS Photo Nos. IL-1001H-5 and IL-1001H-6), the dining room, and the parlors. Most painted surfaces are white.
5. **Openings:**
 - a. **Doorways:** Typical first- and second-floor doorways (HABS Photo Nos. IL-1001H-5 and IL-1001H-8) contain four-panel, walnut doors with wide, molded walnut surrounds. The jambs and heads of the main block doorways are faced with walnut panelling. The inner set of doors at the foyer are similar to the main front doors with a pair of two-panelled doors below a two-light, fixed, wood-sash transom. The upper panels of these doors contain single panes of clear glass. The doors opening from the stair hall to the dining room (HABS Photo Nos. IL-1001H-5 and IL-1001H-8) and the southwest parlor have been re-

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moved. Between the parlors (HABS Photo No. IL-1001H-7), the southwest parlor and the dining room (HABS Photo No. IL-1001H-8) and the stair hall and the northwest parlor are double doorway openings, lacking doors. The doorway to the south bathroom of the second-floor, main block contains a two-light rectangular transom. All first- and second-floor doorways are painted white. Typical casement doorways contain plain, vertical, board doors with Z-braces. These doors are set in plain wood frames.

- h. Windows: The first- and second-floor windows contain wide, walnut casings with folding shutters concealed in their jambs. One side contains a single panelled shutter and the other, typically, contains a bi-folding shutter with one shutter panelled and the other with operable slats. Below the windows are single-panel wood bases to the floor. With the windows fronting the porches these bases form part of the sash so that the lower sash can be raised to form a doorway opening. The basement windows lack casings. All window sash and trim are painted white.
6. Decorative features and trim: Throughout the first and second floors there are wide, molded walnut baseboards (HABS Photo Nos. IL-1001H-5, IL-1001H-6, IL-1001H-7, IL-1001H-8, and IL-1001H-8) painted white. Walnut corner guards are located at the base of the primary stair (HABS Photo No. IL-1001H-5), the upper stair hall, the first-floor service hall, and the bedroom in the hyphen portion of the wing. The first-floor pantries retain original, tall, wood, china cabinets now painted white. Kitchen cabinetry is recent.

There are six fireplaces in the house - three on each of the main floors. The northwest parlor fireplace (HABS Photo No. IL-1001H-7) has an elaborate cut and polished white marble mantelpiece and hearth, the southwest parlor fireplace has an elaborate cut and polished white marble mantelpiece and hearth, the dining room fireplace (HABS Photo No. IL-1001H-8) has an elaborate cut and polished brown/gray marble mantelpiece and hearth, and the three main bedroom fireplaces each have elaborate cut and polished white marble mantelpieces and hearths. Although the mantelpieces are of the same style, small differences in detailing have a cumulative effect such that each is obviously unique. No original firebacks, andirons, frames, covers, or other fireplace hardware appears to have survived.

7. Hardware: A substantial amount of original hardware survives. The foyer doors retain elaborate, cast-brass knobs with the silhouette of a Renaissance soldier, plates, and escutcheons.

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One set of original elaborate, cast-brass door hinges and a matching knob set survive on the door between the dining room and the pantry. Plain round brass knobs and hardware have been substituted on most other first-floor doors, where the doors have not been removed. The first-floor wing doors feature plain, cast-iron hinges, locks, and white porcelain knobs. The second floor uniformly has cast-iron hinges, locks, and white porcelain knobs. The basement doors have simple cast-iron hinges and thumb latches.

Window hardware consists of elaborate, cast-brass sash locks, rope sash cords with iron pulleys and weights, and iron sash lifts on the double-hung sash. The shutters have simple, cast-iron hinges.

8. Mechanical equipment:

- a. Heating, air-conditioning, ventilation: The house is heated by means of steam radiators (HABS Photo Nos. IL-1001H-6, IL-1001H-7, and IL-1001H-9) with a modern boiler in the basement. This system was originally supplemented with the fireplaces (HABS Photo Nos. IL-1001H-7 and IL-1001H-8). There are no air-conditioning or mechanical ventilation systems.
- b. Lighting: Lighting was originally by means of gasoliers and other gas fixtures. None of these survive. Present lighting is by means of incandescent ceiling (HABS Photo Nos. IL-1001H-5, IL-1001H-7, and IL-1001H-8) and wall-mounted fixtures.
- c. Plumbing: The house was plumbed originally. Of the original plumbing fixtures, none survive. The master and main second-floor bathrooms each contain a modern tub, toilet, and sink. The wing bathroom contains an old, but not original, clawfoot tub. The original wooden water tank which was filled from rainwater collected from the roof, survives in the wing attic, but is no longer in service.

D. Site:

1. General setting and orientation: The house is set in a parklike area of the arsenal north of the golf course, south of Terrace Drive, and between Quarters 3 and 6. The site is characterized by large trees, typical early twentieth century incandescent street lighting, sweeping expanses of mowed lawn, and a view to the north of the Mississippi River. To the rear is Hedge Lane, an asphalt-paved service drive.
2. Outbuildings: To the rear of the house, fronting onto the service drive is a single-car garage. It is a one-room, rectangular,

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frame structure with clapboard walls having four-over-four, wood, double-hung, window sash centered in both of its side walls. Its original hinged doors have been replaced with a modern wood overhead door.

Prepared by: David Arbogast
Architectural Conservator
February 1985

PART III. SOURCES OF INFORMATION

A. Architectural Drawings

The Rock Island Arsenal Engineering Plans and Services Division has undated floor plans showing the building in its present configuration (see HABS Photo Nos. IL-1001H-11 through IL-1001H-13).

B. Early Views:

An early view of the building, probably taken in the 1870s, is an undated, uncaptioned photograph in the picture collection of the Rock Island Arsenal Historical Office (see HABS Photo No. IL-1001H-10). It shows the front porch in its original configuration. The earliest known view of the remodeled front porch is reproduced in First Album of the City of Davenport, Ia (Davenport: Huebinger's Photographic Art Gallery, 1887), n.p.

C. Bibliography:

1. Primary and unpublished sources:

Hess, Jeffrey A., and Mack, Robert C. "Historic Properties Report Rock Island Arsenal, Rock Island, Illinois". Prepared by MacDonald and Mack Partnership, and Building Technology Incorporated for the Historic American Buildings Survey/Historic American Engineering Record, National Park Service, U.S. Department of the Interior, 1985. The report, with accompanying inventory cards, is filed as field records in the Prints and Photographs Division, Library of Congress, under HAER No. IL-20.

Map of Rock Island Arsenal and Vicinity, 1894, revised March 1918, No. 156-H-93, Record Group 156, Still Picture Branch, National Archives, Washington, D.C.

Real Property Cards, Engineering Plans and Services Division, Rock Island Arsenal. Briefly describes building's structural

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characteristics and provides sketchy history of maintenance operations.

Real Property Inventory, computer printout, March 31, 1982, Engineering Plans and Services Division, Rock Island Arsenal. Lists date of construction of garage.

2. Secondary and published sources:

First Album of the City of Davenport, Ia. Davenport: Huebinger's Photographic Art Gallery, 1887. Rock Island Arsenal Historical Office. Reproduces photograph of building showing remodeled front porch.

Flagler, D[aniel] W[ebster]. A History of the Rock Island Arsenal from Its Establishment in 1863 to December 1876. Washington, D.C.: Government Printing Office, 1877. The most detailed account of the building's construction, written by the arsenal's commandant from 1871 to 1886.

Heitman, Francis B. Historical Register and Dictionary of the United States Army. Vol. 1. Washington, D.C.: Government Printing Office, 1903. Provides brief biography of Captain Clifton Comly, the building's architect.

Nothstein, Ira O. and Stephens, Clifford W. A History of Rock Island Arsenal from Earliest Times to 1954. Rock Island: U.S. Army, Rock Island Arsenal, 1965. 3 vols. Rock Island Arsenal Historical Office. The best account of the arsenal's general operations, with brief information on the construction of officers' residences.

Plans of Officers' Quarters at the Arsenals and Armory. Washington, D.C.: Government Printing Office, 1876. Rock Island Arsenal Historical Office, Reproduces first- and second-floor plans; the building is listed as "Quarters No. 1," which was a temporary designation.

Register of Graduates and Former Cadets of the United States Military Academy. Chicago: R.R. Donnelly & Sons, 1980. Biographical data on Comly.

D. Likely Sources Not Yet Investigated:

Record Group 156 at the National Archives contains correspondence on the construction and operation of Rock Island Arsenal from 1871 to 1903. This material is also available on 216 reels of microfilm at the Browning Museum, Rock Island Arsenal.

PART IV. PROJECT INFORMATION

This project was part of a program initiated through a memorandum of agreement between the National Park Service and the U.S. Department of the Army. Stanley J. Fried, Chief, Real Estate Branch of Headquarters DARCOM, and Dr. Robert J. Kapsch, Chief of the Historic American Buildings Survey/Historic American Engineering Record, were program directors. Sally Kress Tompkins of HABS/HAER was program manager, and Robie S. Lange of HABS/HAER was project manager. Building Technology Incorporated, Silver Spring, Maryland, under the direction of William A. Brenner, acted as primary contractor, and MacDonald and Mack Partnership, Minneapolis, was a major subcontractor. The project included a survey of historic properties at Rock Island Arsenal, as well as preparation of an historic properties report and HABS/HAER documentation for 38 buildings. The survey, report, and documentation were completed by Jeffrey A. Hess, historian, Minneapolis; Barbara E. Hightower, historian, Minneapolis; David Arbogast, architectural historian, Iowa City, Iowa; and Robert C. Mack, architect, Minneapolis. The photographs were taken by Robert A. Ryan, J. Ceronie, and Bruce A. Harms of Dennett, Muessig, Ryan, and Associates, Ltd., Iowa City, Iowa. Drawings were produced by John Palmer Low, Minneapolis.