

ANNUAL REPORT

Date, June 30, 19.24

After inspection of all buildings and systems by the commanding officer and myself during the third quarter, Q. M. C. Form 515—Record of equipment and condition of buildings, and Q. M. C. Form 517—Record of equipment and condition of utilities, are submitted herewith.

Q. M. C. Forms 175a, 425, 424, 426, 427, 511, 512, 513, 514, 516, 518,
519, 519a, and 520 prepared _____ by _____ and forwarded to your
office (are not) certified? (Date)

The repairs required during fiscal year 19.24.... on water supply, sewage, plumbing, heating, gas or electric lighting systems were due to fair wear and tear. (If any repairs were due to carelessness, state in detail their nature and who was responsible under Remarks.)

The expenditures made during fiscal year 1924... for repairs were considered ~~(sufficient)~~ or (not enough) for the proper preservation of buildings and systems. (If not enough, note in what particulars under Remarks.)

Estimates Nos.	None Submitted	Post turned over by Engineer Corps to Quartermaster Corps.
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have been submitted with the third quarterly report, requesting (new construction), (extensions), (major repairs), (alterations), (additions), or (new installations). On each estimate is stated the size, the material of which it is proposed to construct, the purpose for which required, the accommodations it will provide, and the particular necessity thereof, together with a plan or sketch of the improvement.

The average cost of packing and crating household effects during fiscal year ending June 30, 1924 has been as follows:

NUMBER.	GRADE OR DESIGNATION.	TOTAL COST.	COST PER PERSON.	AVERAGE COST PER 100 POUNDS FOR PACKING AND GRATING BY Q. M.	AVERAGE COST PER 100 POUNDS FOR PACKING AND GRATING BY COM-MERCIAL FIRM.
NONE					
TOTALS					

The personnel authorized during fiscal year 1924, was considered (sufficient) or (not enough) for the proper operation of the various plants, or for the preservation of buildings and systems. (If not enough, state just what additional personnel is needed for the next fiscal year under Remarks.) ~~XXXX~~

Approved:

3-8701
A.K. KOPFER.
Commanding Officer.
5 1924

L. M. Bullock
Captain Q. M. C.

Quartermaster.

REMARKS

(CONTINUED)

Neither expenditures nor personnel were sufficient for the proper preservation of buildings and systems. With the funds and personnel heretofore available the buildings and systems deteriorate faster than the repairs can be kept up.

In Bdg the exterior painting and downspout and gutters have suffered so much in the last few years through lack of funds and personnel to affect repairs that it has been impossible to keep up with the deterioration, which is getting more serious each season.

In Wsg Plumbing, the plumbing systems in the buildings, from the causes above detailed, are in poor average condition. Repairs have been made with salvaged and old material sufficiently to keep the systems operating but not keeping pace with the general deterioration. The need for extensive repairs becomes increasingly more imperative and the lack of funds to meet this need results in increased and more rapid inefficiency in operation with its attendant augmented leakages.

With reference to ~~REPAIRS~~ Wharves, the same remarks apply with all the more force, considering the nature of their construction and the hard usage to which they are exposed. The docking and fender piling, under the best of circumstances have but a short life, but even this is rendered still shorter through inability to effect necessary repairs at the time they can be made economically at relatively small cost, when to postpone them for another season results in an immensely greater cost and a greater surface needing repairs.

Under the present system of accounting for costs of operation and maintenance of utilities, rendering correct and satisfactory reports of the same, personnel trained in this particular work should be assigned or made available for this kind of work primarily. Present clerical personnel is insufficient.

In addition a steam fitter assigned to duty at this office for attending to work of ~~the~~ the various posts comprising this Harbor would facilitate matters.

ANNUAL REPORT

(CONSTRUCTION, MAINTENANCE, AND REPAIR)

STATION FORT RUDEMAN, MASS.

Date, June 30, 1925

To the Quartermaster General of the Army:

After inspection of all buildings and systems by the commanding officer and myself during the second quarter, Q. M. C. Form 515—Record of equipment and condition of buildings, and Q. M. C. Form 517—Record of equipment and condition of utilities, are submitted herewith.

Q. M. C. Forms ~~173a~~, 423, ~~424~~, 425, 426, 427, ~~511~~, 512, ~~513~~, ~~514~~, 516, ~~518~~, ~~519~~, and 520, prepared *June* 1925, and forwarded to your office (are) or (~~are not~~) correct. (Date)

Attached hereto are submitted corrected Forms ~~173a~~, ~~423~~, ~~424~~, ~~425~~, 426, 427, 511, ~~512~~, ~~513~~, 514, 516, 518, 519, 519a, and 520.

The expenditures made during fiscal year 1925 for repairs were considered (sufficient) or (~~not enough~~) for the proper preservation of buildings and systems. (If not enough, note in what particulars.)

REMARKS

Maximum capacity general officers	<u>None</u> married
Maximum capacity field officers	<u>None</u> married
Maximum capacity company officers	<u>None</u> married
Maximum capacity officers	<u>None</u> bachelors

TOTAL COMMISSIONED OFFICERS

Maximum capacity warrant officers	<u>None</u> married
Maximum capacity field clerks	<u>None</u> married
Maximum capacity warrant officers	<u>None</u> bachelors
Maximum capacity field clerks	<u>None</u> bachelors

TOTAL

Maximum capacity enlisted men, troops	<u>None</u>
Maximum capacity enlisted men, staff corps	<u>1</u>
	<u>0</u>

TOTAL ENLISTED MEN

Maximum capacity animals	<u>0</u>
Maximum capacity motor vehicles	<u>0</u>
Maximum capacity animal-drawn vehicles	<u>0</u>
Maximum capacity hospital beds	<u>0</u>

Maximum storage space available, warehouses	<u>none</u> sq. ft. floor	<u>none</u> cu. ft.
Maximum storage space available, sheds	<u>none</u> sq. ft. floor	<u>none</u> cu. ft.
Maximum storage space available, open	<u>none</u> sq. ft. floor	

(State briefly what kind of stores the space is suitable for, and the weights per square foot of floor area that warehouses or sheds can safely carry.)

None

Fiscal year ending June 30, 19 41

TOTAL

(C. A.) (Dept.) Station Fort Ruckman, Mass.

ANNUAL REPORT OF CONSTRUCTION AND REPAIR

Fiscal year ending June 30, 1940-----

[illegible]

First..... (C. A.) (Dept.) Station Fort RUCMAN, Miss.

ANNUAL REPORT OF CONSTRUCTION AND REPAIR

Fiscal year ending June 30, 19 39

TOTAL

RECORD OF EQUIPMENT AND CONDITION OF BUILDINGS

Date June 30, 1941

Reservation—Area 44.5 acres.

Name Fort Ruckman Location Nahant, Massachusetts Established 1899 Government-owned 44.5 acres. Leased 0 acres.

Character of post Coast Artillery Telegraph station Nahant, Massachusetts Freight station West Lynn, Massachusetts

Capacity: Officers 10 E; N. C. O. 1 P; Enl. men 189 E; Animals 0; Motor veh. 5; Hosp. beds 0 Infirmary

POST BLDG. No.	DESIGNATION OF BUILDING	Laundry Stove	HOT-WATER HEATERS					Range Boilers	RANGES OR COOKERS					METERS					Toilets	Urinals	Kitchen Sinks	Washbasins	Laundry Tubs	Shower Baths	Bathtubs	Fire Extinguishers	Fire Buckets	Storm Windows	Screens	Designed Capacity	Present Occupancy	REMARKS ON CONDITION OF BUILDINGS
			Coal	Oil	Gas	Steam	Electric		Coal	Oil	Gas	Steam	Electric	Water	Gas	Oil	Steam	Electric														
	Housing																															
	A. Enlisted Men																															
	(1) Family Type																															
	(a) permanent																															
<u>2</u>	NCO Quarters																															
	(2) Barracks Type																															
	(c) Emergency																															
	T - 7 Barracks																															
	T - 8 Barracks																															
	T - 9 Barracks																															
	B. Officers																															
	(1) Family Type																															
	(c) Emergency																															
	T-3 Officers Qtrs.																															
	D. Storage																															
	(c) Emergency																															
	T-2 Storehouse SH-8																															
	H. All other type																															
	(a) permanent																															
<u>3</u>	Bath House																															
<u>4</u>	Reservation Fence																															
	(c) Emergency																															
	T-1 Infirmary																															
	T-4 Firehouse																															
	T-5 Guard House																															
	T-6 Co. Adm & Day Room & Storehouse																															
	(c) Mess Hall																															
	(a) Emergency																															
	T-10 Mess Hall																															

RECORD OF EQUIPMENT AND CONDITION OF BUILDINGS

Date June 30, 1940

Reservation—Area 44.5 acres.

Name Fort Ruckman, Mass.

Location Nahant, Mass.

Established 1899

Government-owned 44.5

_____ acres. Leased 0 acres.

Character of post Coast Artillery

Telegraph station Nahant, Mass.

Freight station West Lynn, Mass.

Capacity: Officers 0

-; N. C. O. 1

—; Enl. men — 0

____; Animals _____ Q

____; Motor veh. _____ 0

____; Hosp. beds ____ 0

[illegible]

RECORD OF EQUIPMENT AND CONDITION OF BUILDINGS

Date June 30, 1939.

Reservation—Area 44.5 acres.

Name Fort Ruckman, Mass. Location Nahant, Mass. Established 1899 Government-owned 44.5 acres. Leased 0 acres.

Character of post Coast Artillery Telegraph station Nahant, Mass. Freight station West Lynn, Mass.

Capacity: Off. 0 ; W. off. and ft. cls. 0 ; N. C. O. 1 ; Enl. men 0 ; Animals 0 ; Motor veh. 0 ; Hosp. beds 0

Capacity: 0-1		POST BLDG. No.	DESIGNATION OF BUILDING	Laundry Stoves	HOT-WATER HEATERS					Range Boilers	RANGES OR COOKERS					METERS					Toilets	Urinals	Kitchen Sinks	Washbasins	Laundry Tubs	Shower Baths	Bathtubs	Fire Extinguishers	Fire Buckets	Storm Windows	Screens	Present Capacity Present Occupancy*	REMARKS ON CONDITION OF BUILDINGS
Coal	Oil				Gas	Steam	Electric	Coal	Oil		Gas	Steam	Electric	Water	Gas	Oil	Steam	Electric															
2	✓		Perm Buildings				1			1	1		1				1			2	1		1	1	2		1	3		16	17	1-Family*	Good M-1
3	✓		N.C.O. Quarters																		2		1								10-People	Good O-1	
4	✓		Bath House		1																												
4	✓		Reservation Fence																														
<div>Note: M-Authorized for maintenance 0-Not authorized for maintenance 1-Actually habitable and useable 2-Habitable and useable only after expenditure of considerable funds.</div>																																	

RECORD OF EQUIPMENT AND CONDITION OF UTILITIES

At Fort Ruckman, Mass.

Date June 30, 1941.

[illegible]

RECORD OF EQUIPMENT AND CONDITION OF UTILITIES

At <u>Fort Ruckman, Mass.</u>										Date <u>June 30, 1941</u>									
RAILROADS	CONNECTING RAILROAD AT POST		TRACK GAUGE	WEIGHT OF RAIL	KIND OF RAIL	MAINTAINED BY—	GOVERNMENT OWNED		RAILROAD OWNED		TOTAL TURNOUTS	TOTAL MILES TRACK							
							MILES TRACK	TURNOUTS	MILES TRACK	TURNOUTS									
	None <i>w</i>																		
WHARVES	POST BLDG. No.	MATERIALS				DIMENSIONS		ELEVATION OF DECK		DEPTH OF MEAN LOW WATER	DIFFICULTIES IN MAINTAINING AND REPAIRING WHARF	REPAIRS MADE							
		SUBSTRUCTURE	DECK	SUPER-STRUCTURE	BACKFILL	TREATED OR UNTREATED	WHARF	APPROACH	H. W.			L. W.	KIND	DATE					
		None																	
TARGET RANGES	LOCATION _____ AREA _____ GOVERNMENT OWNED _____ LEASED _____										FACILITIES								
	CONDITION	No.	TYPE	RANGE YARDS	TARGETS		BUTTS		TRENCH										
			None		WIDTH	INTERVAL	WIDTH	LENGTH	WIDTH	HOW DRAINED	Water connections _____ Sewer connections _____ Telephone _____ Electric lights _____								
BOILER AND POWER PLANTS	IN BLDG. No.	CONDITION	ADDITIONS, ALTERATIONS, OR REPLACEMENTS IN EQUIPMENT		REFRIGERATING PLANTS	IN BLDG. No.	CONDITION	ADDITIONS, ALTERATIONS, OR REPLACEMENTS IN EQUIPMENT											
		None	None				None	None											
WATER PUMPING PLANTS		None	None		HEATING														
SEWAGE PUMPING PLANTS		None	None					None											
FENCES	RESERVATION		INTERIOR																
	CONDITION	KIND	LENGTH	CONDITION	KIND	LENGTH													
	Good	Chain link			Chain link														
		Wire	770'	Good	Wire	730'													
	Fair	Wire	100'	Good	Chain link														
					Wire	600'													
	As of 7/31/41 - 4.2 mi.																		

INSTRUCTIONS.—This report will be prepared annually as directed in paragraph 8, A. R. 30-1770.

Under the heading "Extensions, additions, alterations, or replacements" any changes that have been made in the equipment of the utility referred to during the present fiscal year will be reported. Opposite "Heating" report changes in the square feet of radiation installed in buildings or boilers in individual heating plants. If there have been no additions or alterations statement to that effect will be made.

RECORD OF EQUIPMENT AND CONDITION OF UTILITIES

At Fort Ruckman, Mass.

Date June 30, 1940

RAILROADS	CONNECTING RAILROAD AT POST		TRACK GAUGE	WEIGHT OF RAIL	KIND OF RAIL	MAINTAINED BY—	GOVERNMENT OWNED		RAILROAD OWNED		TOTAL TURNOUTS	TOTAL MILES TRACK														
							MILES TRACK	TURNOUTS	MILES TRACK	TURNOUTS																
	None																									
WHARVES	POST BLDG. No.	MATERIALS					DIMENSIONS		ELEVATION OF DECK		DEPTH OF MEAN LOW WATER	DIFFICULTIES IN MAINTAINING AND REPAIRING WHARF	REPAIRS MADE													
		SUBSTRUCTURE	DECK	SUPER-STRUCTURE	BACKFILL	TREATED OR UNTREATED	WHARF	APPROACH	H. W.	L. W.			KIND	DATE												
															None											
TARGET RANGES	LOCATION						AREA		GOVERNMENT OWNED		LEASED															
	CONDITION	TARGETS INSTALLED				RANGE YARDS	TARGETS		BUTTS		TRENCH		FACILITIES													
		No.	TYPE				WIDTH	INTERVAL	WIDTH	LENGTH	WIDTH	HOW DRAINED														
			None																							
												Water connections														
												Sewer connections														
												Telephone														
												Electric lights														
BOILER AND POWER PLANTS	IN BLDG. No.	CONDITION	ADDITIONS, ALTERATIONS, OR REPLACEMENTS IN EQUIPMENT				REFRIGERATING PLANTS	IN BLDG. No.	CONDITION	ADDITIONS, ALTERATIONS, OR REPLACEMENTS IN EQUIPMENT																
			None							None																
WATER PUMPING PLANTS		None	None																							
SEWAGE PUMPING PLANTS		None	None																							
FENCES	RESERVATION			INTERIOR						None																
	CONDITION	KIND	LENGTH	CONDITION	KIND	LENGTH																				
	Good	Chain Link		Good	Chain Link																					
	Fair	Wire	770'	Good	Wire	730'																				
				Good	Chain Link	600'																				

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GAS SYSTEM

At Fort Ruckman, Mass.

Date June 30, 1937

Name of contractor Lynn Gas & Electric Co., Lynn, Mass.

Number of master meters None (Individual Building Meters)

Point of delivery Individual Buildings

Name of meter manufacturer Tufts Meter Co., Boston, Mass.

Size of incoming mains 6" Pressure 3½" to 5" Average 4"

Meter owned by Lynn Gas & Electric Co., Lynn, Mass.

High-pressure governor { Owned by None
 { Maintained by -

Meter maintained by Lynn Gas & Electric Co., Lynn, Mass.

Nature of gas Manufactured B. T. U. 528
(Manufactured or natural)

Meter location Individual Building

Type low-pressure regulator None

Name of regulator manufacturer None

DISTRIBUTION MAINS

GOVERNMENT-OWNED								OWNED BY CONTRACTOR						
Material	Dia.	Length, (Miles or feet)	Pressure carried	Depth laid	Protective coating	Date installed	Cost	Material	Dia.	Length, (Miles or feet)	Pressure carried	Depth laid	Protective coating	Date installed
Steel	1½"	25'	3½"-5"	3½"	None	12/22/28	\$20.00							
	<i>Ran line as of 7/31/41 - 25 ft.</i>													
Total,		25' ✓					\$20.00	Total,						

INSTRUCTIONS

This form is for permanent record and will be used when new systems or extensive additions are completed and turned over for use. Prepared in triplicate. One copy of each form will be retained at the station where prepared, one copy

Forms will be prepared in triplicate. One copy of each form will be retained at the station where prepared, one copy will be forwarded to the Department or Corps Area Commander, and one copy (the original) will be forwarded to the Quartermaster General. At independent stations, forms will be prepared in duplicate, one copy will be retained at the station and the original will be forwarded to the Quartermaster General.

Slight modifications, alterations, or additions will be promptly reported to the Quartermaster General, giving all particulars with notation to be made on the report. It is not necessary to submit new forms when reporting such slight modifications, etc. Inasmuch as these forms are used to check upon the gas system in operation, entries hereon will be considered accurate at all times.

Furnish map showing location and size of distribution mains, with location of drips and valves. Indicate by symbol or otherwise ownership of mains. At critical points show depth laid. (Distance from top of pipe to surface of ground.) On reverse side of form give data pertaining to apparatus using gas.

On reverse side of form, give data pertaining to apparatus using gas.
 Service Connection - In installation of a meter will be shown by placing an asterisk in the column headed "Size."
 Cuts the column headed "Pressure" give maximum and minimum where there are marked fluctuations in the pressure.
 If there is more than one service to or in building show data pertaining to each separately.
 If there is only one connection or meter for sewage, sewerage, etc., show data for all.

If there is only one connection or meter for several services, group together by brackets or otherwise indicate those services which are so connected or metered.

HEATING BOILER.—Give name of gas burner manufacturer, as "Barber Co.," etc.

RANGES.—Give name and number of burners, as "Estate" 4 burners, etc.

3-9952

[illegible]

FIRE PROTECTION

At FORT RUCKMAN, MASS.

Date May 10, 1922.

FIRE DEPARTMENT ORGANIZATION.

NO. OF STATION	NO. MEN EACH STATION	NO. OF STATION	NO. MEN EACH STATION
	NONE		
Total		Total	

Remarks: Enlisted Personnel

OUTSIDE AID.

LOCATION	DISTANCE	TIME
Nahant, Mass.	1 Mile	5 Minutes

Remarks: Modern fire fighting apparatus is available within 5 minutes after
alarm is turned in to Town of Nahant, Mass.

WATER SUPPLY.

Capacity of tanks	NONE	PRESSURE IN MAINS	
Capacity of reservoirs	NONE	Due to tanks or reservoirs	Direct pumping
Capacity pump, max. G. P. M.	NONE		Max. 90
Duration of water supply	1500 gals. per 24 hrs.		Min. 70

Remarks:

AUTOMATIC SPRINKLER SYSTEMS.

[illegible]

Remarks:

STANDPIPE SYSTEMS.

Designation and number of buildings equipped **NONE**

Remarks:

HOSE CONNECTIONS AT PLUGS

	POST	NEAREST TOWN
Number of threads per inch.....	NONE	7 $\frac{1}{2}$
Diameter of male couplings over threads.....	NONE	3 $\frac{1}{2}$

Remarks:

FIRE-ALARM SYSTEMS

[illegible]

Remarks: Telephone Fire Department Town of Nahant, Mass.

FIRE-FIGHTING APPARATUS

Capacity, G. P. M.	Name or Manufacturer	Number
Triple comb'n pumping engines.....		NONE
Double comb'n chem'l and hose trucks.....		NONE
Hook and ladder truck 1935 P-1732	1935 P-1732	NONE
Utilities car.....	NONE	NONE
Wheel-type chemical extinguishers.....	40 Gal. "Badger"	300.
Hose carts, hand-drawn.....		150.
1-quart extinguishers.....		5.
2½-gallon soda-and-acid extinguishers.....		24
2½-gallon foam-type extinguishers.....		NONE
5-gallon hand pump tank.....		NONE
Hose—2½-inch, double jacket.....	300	210
2½-inch, single jacket.....	NONE	
Unlined linen.....	NONE	689.00
Other apparatus: Fire buckets.....		14

Remarks: **File Hazard "Very good"**
post garrisoned by care taking detachment only.

690

REFRIGERATORS AND LOCKERS

[illegible]

Date January 21, 1980.

U. S. GOVERNMENT PRINTING OFFICE: 1919 3-9772

CENTRIFUGAL, TURBINE, AND DIRECT-ACTING PUMPS

AIR-LIFT PUMPS

AIR COMPRESSORS

Remarks:

Date January 22, 1930.

Means of disposal of sewage Discharges into main sewer, Town of Nahant, Mass.

SEWAGE-TREATMENT PLANTRemarks:[illegible]

SEWERAGE SYSTEM—CONTINUED

FLUSH TANKS					GREASE TRAPS					SEWAGE EJECTORS				
UNIT NO.	NAME OF MANUFACTURER	SIZE	DATE INSTALLED	COST	UNIT NO.	NAME OF MANUFACTURER	SIZE	DATE INSTALLED	COST	UNIT NO.	NAME OF MANUFACTURER	SIZE	DATE INSTALLED	COST
None	None	None	None	None	None	None	None	None	None	None	None	None	None	None

INSTRUCTIONS

Sewers and Drainage.—Under material, state whether vitrified clay, cast iron, brick, concrete, or ditch, etc. In case of ditches, give width and depth instead of diameter.

Means of Disposal of Sewage.—State whether the outfall sewer discharges into ocean, lake, stream, city sewer, or sewage-treatment plant.

Centrifugal Pumps—Unit Number.—Give number used by the utilities officer on his records of the apparatus referred to.

Building Number.—Give number of building where pump is installed.

How driven.—Motor, gas engine, or steam.

Total head, capacity, and R. P. M.—Take these items from name-plate data.

Operating Conditions—Suction lift.—Give suction lift under which pump is operating.

Discharge head.—Give total head under which pump is operating. This includes static plus friction head.

This form is for permanent record and will be used only when new installations are made, or extensive alterations or additions are first completed and turned over for use.

Forms will be prepared in triplicate. One copy of each form will be retained at the station where prepared, one copy will be forwarded to the Department or Corps Area Commander, and one copy (the original) will be forwarded to the Quartermaster General. At independent stations forms will be prepared only in duplicate, one copy for retention at the station, and the other for submission to the Quartermaster General.

Slight modifications, alterations, or additions will be reported promptly upon completion of the work to the Quartermaster General, as directed in par. 7, AR 30-1770.

WATER-SUPPLY SYSTEM

At Fort Buckner, Mass.

Date January 24, 1930

Source of water supply Purchased from Town of Nahant, Mass.

Sanitary conditions surrounding source of supply Good

Quality of water Good

Has the capacity of the supply been fully developed? Not known

Describe distribution system Pressure, Town of Nahant Pumping Plant

3-9773

FILTRATION				SOFTENER			CHEMICAL FEED AND STERILIZING EQUIPMENT					
	SEDIMENTATION BASIN	FILTERS	CLEAR-WATER BASIN		SOFTENER TANKS	BRINE TANKS	CHLORINATORS					
							NUMBER	CAPACITY	MAKE	TYPE	COST	DATE INSTALLED
Number	None	None	None	Make	None	None	None	None	None	None	None	None
Dimensions				No. units								
Material				Dimensions			DRY FEED MACHINES					
Capacity				Capacity			NUMBER	CHEM. USED	CAPACITY	MAKE	HOW DRIVEN	COST
Cost				Material			None	None	None	None	None	None
Date installed				Cost								DATE INSTALLED
Type				Date installed			SOLUTION FEED EQUIPMENT					
Bldg. No.				Building No.			NUMBER	SIZE TANKS	CHEMICAL USED	HOW CONTROLLED	COST	Date Installed
				Kind of zeolite			None	None	None	None	None	None
				Capacity per regeneration		Kilograms						

WELLS										WATER METERS				
NO. OF WELL	KIND	DEPTH	DIAM.	MANNER PUMPED	CAPACITY, G. P. M.	COST	DATE INSTALLED	WATER LEVEL		NUMBER	MAKE	TYPE	SIZE	BUILDING NO.
								Standing	Draw Down					
None	None	None	None	None	None	None	None	None	None	1	Crown	Disk	1 1/2"	None
										1	Empire	"	"	"

WATER MAINS							WATER ANALYSIS													
MATERIAL		DIAM.	LENGTH	SOURCE SUPPLY	CLASS	COST	DATE INSTALLED	Date of analysis	Total hardness (as CaCO ₃)	Alkalinity to methyl orange (as CaCO ₃)	Hydrogen ion concentration (pH)	Total iron	Magnesium	Calcium	Sulphates (as SO ₄)	Chlorides (as Cl)	Sodium and Potassium (as Na)	Average Color	Average Turbidity	Parts per Million
Mains	Joint																			
Galv. Iron Screw		3"	500'	Town Pumping Plant	Unknown	Unknown	1918	11/4/29		(not obtainable)	"									17
								Where made	at State Laboratory											.100
									Boston, Mass.											
								Where collected	at tap in Town of Revere, Mass.											2.5

As of 7/31/41:
Mains - 4" & over - .28 mi.
Pipe - under 4" - .07"
Total .35 mi.

TANKS, RESERVOIRS, CISTERNS, ETC.										PRESSURE		
BUILDING NO.	MATERIAL	DIMENSIONS	SOURCE SUPPLY	CAPACITY, GALLONS	TRESTLE		ELEV. HIGH WATER		COST	DATE INSTALLED	AT HIGHEST FIRE HYDRANT	AT LOWEST FIRE HYDRANT
					Height	Material	Pump	Flagpole				
None	None	None	None	None	None	None	None	None	None	None	95	75
											Number fire hydrants 1	
											Standpipes for sprinkling carts (number) None	

ELECTRIC LIGHTING AND POWER

At Fort Ruckman, Mass.

Date December 31, 1939

1. Post generating plant, active or inactive ----- Original cost -----
 Date completed ----- Total capacity -----
 2. If purchased, give name and address of contracting firm Lynn Gas & Electric Co.,
Lynn, Mass.
 3. Incoming lines at reservation boundary: Voltage ----- Phase -----
 Frequency ----- Number of conductors ----- Aerial or underground -----
 Length of line from contractor's plant or substation, in miles ----- or feet -----
 4. Service lines from reservation boundary to substation: Owner -----
 Length, in miles ----- or feet ----- Aerial or underground -----
 Number of: Poles ----- Manholes ----- Height of poles ----- How treated -----
 Kind of: Poles ----- Manholes ----- Duct -----
 5. Substation: Original cost ----- Date completed -----
 Type of construction ----- Dimensions -----
 Main transformer bank: Owner -----
 Quantity ----- Manufacturer -----
 Name-plate data -----
 Mounted outdoor or indoor ----- Connection of windings: Primary ----- Secondary -----
 Lightning arresters: Quantity ----- Manufacturer -----
 Name-plate data -----
 Where and how mounted -----
 Switchboard: Material ----- Dimensions -----
 Number of panels ----- Number of oil breakers ----- Number of air switches -----
 List of instruments -----

 Number of circuits leaving station ----- Aerial or underground -----
 Voltage regulators: Quantity ----- Manufacturer -----
 Name-plate data -----

 Street-lighting regulators: Quantity ----- Manufacturer -----
 Name-plate data -----

 Other Government-owned apparatus -----

 Apparatus owned by contractor, including metering facilities -----

6. Distribution system: Original cost ----- Date completed -----
 Aerial or underground ----- Phase ----- Number of conductors -----
 Voltage: Primary ----- Secondary: Power ----- Light -----
 Length, in miles ----- or feet ----- Number of poles 3 Kind of poles Pine
 Number of: Cross arms ----- Insulators 10 Manholes -----
 Kind of: Cross arms ----- Insulators Glass
 Kind of: Manholes ----- Duct lines -----
 Number of lightning arresters ----- Type ----- Manufacturer -----
 Number of distribution transformers in service ----- Aggregate K. V. A. -----
 Method of mounting transformers -----
 Method of grounding arresters, tanks and neutral -----

7. Exterior lighting system: Original cost ----- Date completed -----
 Series or multiple ----- Voltage or amperage -----
 Number of lamps ----- Wattage or lumens -----
 B. & S. gage of conductors ----- Length of system -----
 Type of fixtures ----- How mounted -----

8. Interior installations: Lighting, total kilowatts connected 7/10
 Ranges: Total kilowatts connected ----- Number installed -----
 Water heaters: Total kilowatts connected ----- Number installed -----
 Air heaters: Total kilowatts connected ----- Number installed -----
 Fans: Number of A. C. installed ----- Number of D. C. installed -----
 Motors: A. C., total horsepower connected ----- Number installed -----
 Motors: D. C., total horsepower connected ----- Number installed -----
 List miscellaneous Government-owned apparatus, giving group designations, total quantities, and total kilowatt ratings: -----

 Privately owned appliances: Total kilowatts connected (estimated) 1 KW
 Enter pertinent information on motors, except desk and bracket fans on reverse side of this sheet.

9. This space for use of O. Q. M. G.

[illegible]

INSTRUCTIONS.—This form is for permanent record and will be used when new systems or extensive additions are completed and turned over for use.

Forms will be prepared in triplicate. One copy of each form will be retained at the station where prepared, one copy will be forwarded to the Department or Corps Area Commander, and one copy (the original) will be forwarded to the Quartermaster General. At independent stations, forms will be prepared in duplicate, one copy will be retained at the station and the original will be forwarded to the Quartermaster General.

Slight modifications, alterations, or additions will be promptly reported to the Quartermaster General, giving all particulars with notation to be made which would affect operation. It is not necessary to submit new forms when reporting such slight modifications, etc. Inasmuch as these forms are used to check upon the electric system in operation, entries hereon will be checked annually, or oftener, if necessary, and reported for correction. Entries hereon will be considered accurate at all times.

3-9641

[illegible]

Post Plan No. -----None-----

O. Q. M. G.: Plan No. None Building No. 2

Place FORT RUCKEL, MASS N. C. O. quarters

Designation of building CARETAKERS QUARTERS Capacity 1-FAMILY

Total cost, \$ 2500.00 Date completed DECEMBER 22, 1928

Material: Walls WOOD AND SHEET ROCK Foundation CEMENT BLOCKS

Roof FIBRE SHINGLES Floors WOOD

Total floor area above basement, square feet 1274

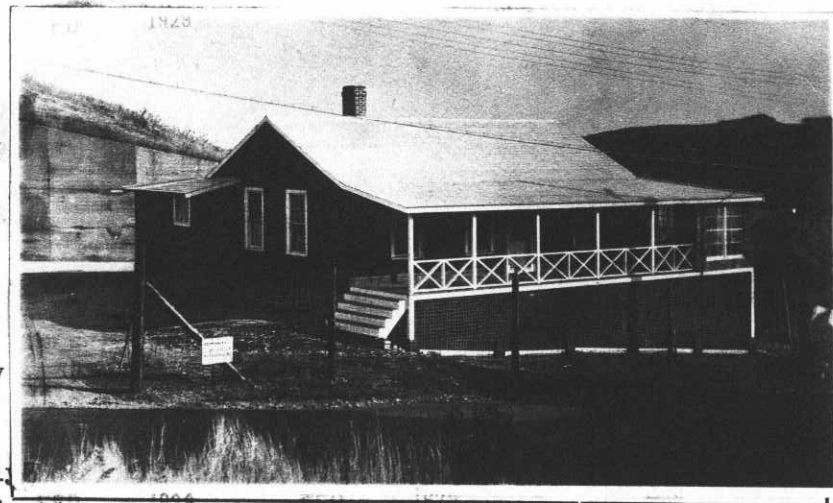
Size: Main building 44' X 39' Wings 10'4" X 4'5" Basement 24' X 26'

a STEAM HEATED Height of first floor above ground 10'

1-Coal Heater, Name: Arco Flash No. 13 (How heated)
b Series 1-M, American Radiator Co. How lighted ELECTRICITY
1-Gas Heater, Name: Bull's Eye, No. 9 (Type of heat)
c Dreher Supply Co. Columbus Ohio Water connections CITY LINE
(Type of domestic hot water heater) Sewer connections CITY LINE
Gas connections CITY LINE

COOKING RANGES INSTALLED **METERS INSTALLED**

Coal, No. 1- No. 3 Gas, No. 1- Property of Supply
Gas, No. None Electric, No. 1- Do Co.
Electric, No. None Oil, No. None
Oil, No. None Steam, No. None
Steam, No. None Water, No. 1- Property of supply



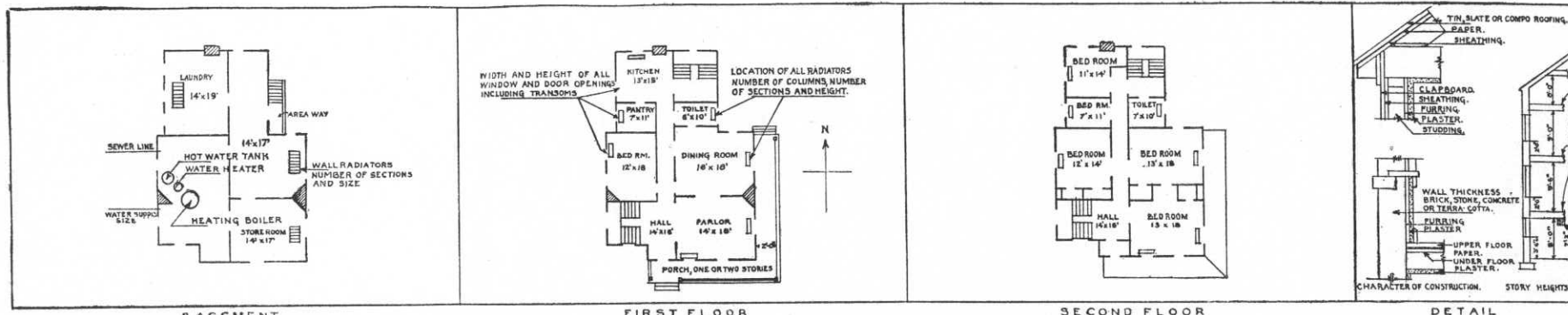
ADDITIONS AND INSTALLATIONS

(Below enter chronologically all modifications, additions, introductions of water, sewer, lights, heating, etc.)

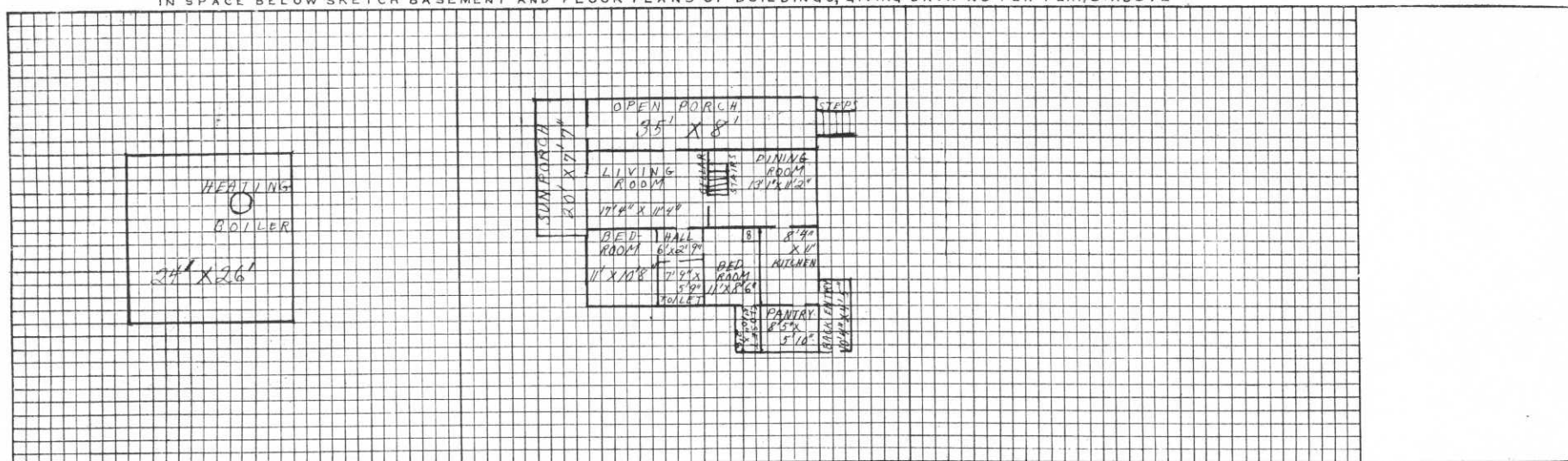
DATE	COST	DATE	COST
		April 12, 1944 - Building No. 2 - Caretakers Building Salvaged	

INSTRUCTIONS.—“a” State whether heated from central heating or by individual heating plants, stoves, furnaces, or fireplaces.
 “b” State whether steam, vapor, hot water, or hot air.
 “c” State whether gas, coal, oil, or central heating plant.

See reverse side of form.



IN SPACE BELOW SKETCH BASEMENT AND FLOOR PLANS OF BUILDINGS, GIVING DATA AS PER PLANS ABOVE.



REMARKS

SCALE: 1 Square = 2'

All measurements of rooms given are inside measurements, balance of space allowed for walls, which are six inches thick, height of ceilings are eight feet.

Material from H.B.O. Quarters salvaged at New Observation. Authorized 4th Ind. H.B.O., September 11, 1923, File 624 Fort Ruckman.

INSTRUCTIONS

If plans of building are available, forward copy of same showing information called for above. These plans should be checked against the building and any variations from same in the building as constructed should be noted.

If plans are not available make sketch plans and elevation in spaces above. The plans shown are typical of "quarters." Similar plans may be made for all types of buildings. There are 10 squares to the inch. Each square will represent 1', 2', 4', or 8', etc., as may be necessary to show entire building in the space allowed. Show inside dimensions and designation of each room. Indicate location of water and sewer connections. In space under heading "Details" show character of construction, story heights, etc.

Post Plan No. None

O.Q.M.C.: Plan No. None Building No. 3

Place Fort Ruckman, Mass.
Designation of building Bathhouse Capacity 20
Total cost, \$1,461.32 Date completed May 29, 1939
Material: Walls Wood Foundation Concrete
Roof Asphalt shingles Floors Concrete
Total floor area above basement, square feet 600 Sq. ft.
Size: Main building 30' x 20' ~~Woods~~ Porch 8' x 30' Basement None
a None Height of first floor above ground 12"
(How heated)
b None How lighted Electricity
(Type of heat)
Water connections Yes (Temporary)
c Coal Sewer connections Yes
(Type of domestic hot water heater) Gas connections None

COOKING RANGES INSTALLED

(Give quantity and size)

Coal	None
Gas	None
Electric	None
Oil	None
Steam	None

REFRIGERATORS INSTALLED

(Give quantity and size)

Gas None

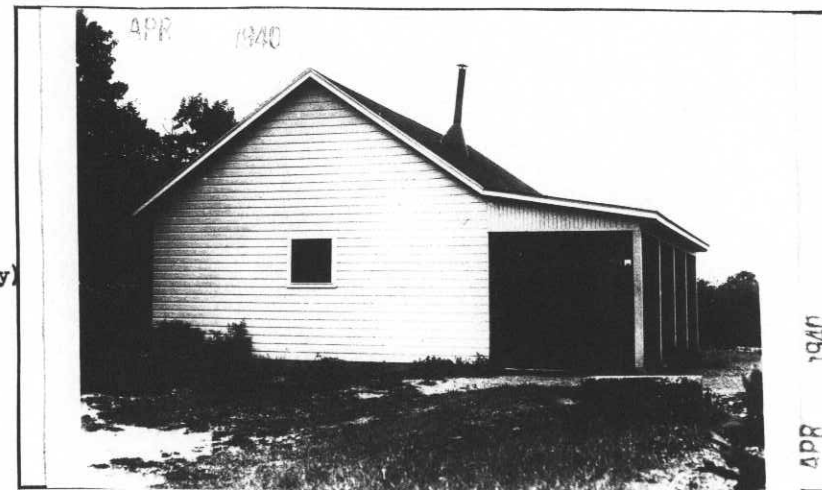
Electric None

Ice None

METERS INSTALLED

(Give quantity and capacity)

Gas	None
Electric	Yes
Oil	None
Steam	None
Water	None



ADDITIONS AND INSTALLATIONS

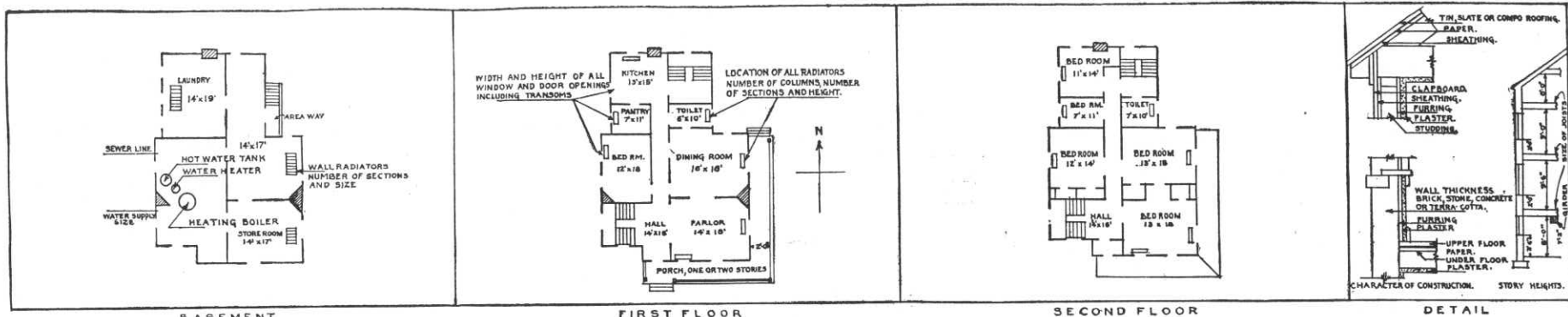
(Below enter chronologically all modifications, additions, introductions of water, sewer, lights, heating, etc.)

[illegible]

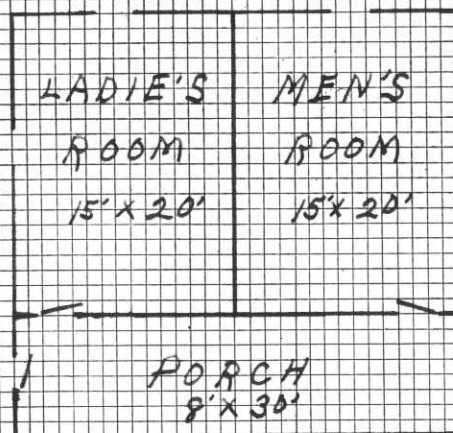
INSTRUCTIONS.—“a” State whether heated from central heating or by individual heating plants, stoves, furnaces, or fireplaces.

"b" State whether steam, vapor, hot water, or hot air.

"c" State whether gas, coal, oil, or central heating plant.



IN SPACE BELOW SKETCH BASEMENT AND FLOOR PLANS OF BUILDINGS, GIVING DATA AS PER PLANS ABOVE



(Scale of drawing: 1 square represent 1 foot.)

REMARKS

INSTRUCTIONS

If plans of building are available, forward copy of same showing information called for above. These plans should be checked against the building and any variations from same in the building as constructed should be noted.

If plans are not available make sketch plans and elevation in spaces above. The plans shown are typical of "quarters." Similar plans may be made for all types of buildings. There are 10 squares to the inch. Each square will represent 1', 2', 4', or 8', etc., as may be necessary to show entire building in the space allowed. Show inside dimensions and designation of each room. Indicate location of water and sewer connections. In space under heading "Details" show character of construction, story heights, etc.

Gas _____
Electric _____
Oil _____
Steam _____
Water _____

Post Plan No. None

O.O.M.G.: Plan No. 800-1443 Building No. T-1

Place Fort Ruckman, Nahant, Mass.
Designation of building Infirmary Capacity 21
Total cost, \$ 10,074.00 Date completed Sept. 10, 1941
Material: Walls Wood Foundation *Concrete
Roof Prepared roofing and wood Floors **Wood and concrete
Total floor area above basement, square feet 2250 sq. ft.
Size: Main building 90'-2" x 25'-4" Wings None Basement None
a Individual heating system Height of first floor above
(How heated) ground 1'
b Forced warm air How lighted Electric
(Type of heat) Coal Water connections 1 1/2"
c Coal Sewer connections 4"
(Type of domestic hot water heater) Gas connections None

COOKING RANGES INSTALLED
(Give quantity and size)

Coal	None
Gas	None
Electric	None
Oil	None
Steam	None

REFRIGERATORS INSTALLED

(Give quantity and size)

Gas _____ None _____

Electric _____ None _____

Ice _____ None _____

METERS INSTALLED

(Give quantity and capacity)	
Gas	None
Electric	None
Oil	None
Steam	None
Water	None

Approval of Secretary of War
as required by A. R. 30-1435
(Give date and File Number)

ADDITIONS AND INSTALLATIONS

(Below enter chronologically all modifications, additions, introductions of water, sewer, lights, heating, etc.)

[illegible]

INSTRUCTIONS.—“a” State whether heated from central heating or by individual heating plants, stoves, furnaces, or fireplaces.
 “b” State whether steam, vapor, hot water, or hot air.
 “c” State whether gas, coal, oil, or central heating plant.

See reverse side of form.





IN SPACE BELOW SKETCH BASEMENT AND FLOOR PLANS OF BUILDINGS, GIVING DATA AS PER PLANS ABOVE

REMARKS

*Concrete piers with the exception of the area of the heater room which has concrete foundation walls.

**Floor in heater room is concrete, other floors 2 1/4" matched flooring.

Note: For building plan see **OQMG** drawing #800-1443.

INSTRUCTIONS

If plans of building are available, forward copy of same showing information called for above. These plans should be checked against the building and any variations from same in the building as constructed should be noted.

If plans are not available make sketch plans and elevation in spaces above. The plans shown are typical of "quarters." Similar plans may be made for all types of buildings. There are 10 squares to the inch. Each square will represent 1', 2', 4', or 8', etc., as may be necessary to show entire building in the space allowed. Show inside dimensions and designation of each room. Indicate location of water and sewer connections. In space under heading "Details" show character of construction, story heights, etc.

Post Plan No. None

O.Q.M.G.: Plan No. 800-663 Building No. T-2

Place Fort Ruckman, Nahant, Mass.

Designation of building Storehouse (shoe shop) Capacity 10,800 Sq. ft.

Total cost, \$ 2250. Date completed September 10, 1941

Material: Walls Wood Foundation Concrete

Roof Wood & Prepared Roofing on Wood Floors Concrete

Total floor area above basement, square feet 1350 Sq. ft.

Size: Main building 54'-2" x 25' x 4" Wings None Basement None

a None Cannon Stoves Height of first floor above ground 1'
(How heated)

b None How lighted Electric
(Type of heat)

c None Water connections None
(Type of domestic hot water heater)

Sewer connections None

Gas connections None

COOKING RANGES INSTALLED
(Give quantity and size)

Coal	None
Gas	None
Electric	None
Oil	None
Steam	None

REFRIGERATORS INSTALLED

(Give quantity and size)

Gas _____ None _____

Electric _____ None _____

Ice _____ None _____

METERS INSTALLED

(Give quantity and capacity)

Gas	None
Electric	None
Oil	None
Steam	None
Water	None

Approval of Secretary of War
as required by A. R. 30-1435
(Give date and File Number)

ADDITIONS AND INSTALLATIONS

(Below enter chronologically all modifications, additions, introductions of water, sewer, lights, heating, etc.)

[illegible]

INSTRUCTIONS.—“a” State whether heated from central heating or by individual heating plants, stoves, furnaces, or fireplaces.

"b" State whether steam, vapor, hot water, or hot air.

"c" State whether gas, coal, oil, or central heating plant.

See reverse side of form.

Post Plan No. None

O.Q.M.G.: Plan No. 700-1256 Building No. T-3

Place Fort Ruckman, Nahant, Mass.
Designation of building Officers' Quarters & Mess. Capacity 10
Total cost, \$ 8400.96 Date completed Sept. 10, 1941
Material: Walls Wood Foundation **Concrete
Roof Wood & prepared roofing, on Wood Floors *Wood & concrete
Total floor area above basement, square feet 2650
Size: Main building 90'x29'-6" Wings None Basement None
a Indiv. Htg. System Height of first floor above ground 1'
(How heated)
b Forced Warm Air How lighted Electric
(Type of heat)
Water connections 2"
c Coal Sewer connections 6"
(Type of domestic hot water heater)
Gas connections None

COOKING RANGES INSTALLED
(Give quantity and size)

Coal 1-#5 Army
Gas None
Electric 1-Deep Fat Fryer
Oil None
Steam None

REFRIGERATORS INSTALLED

(Give quantity and size)

Gas _____ None _____

Electric _____ " _____

Ice _____ 1-#6 _____

METERS INSTALLED

(Give quantity and capacity)	
Gas	None
Electric	"
Oil	"
Steam	"
Water	"

Approval of Secretary of War
as required by A. R. 30-1435
(Give date and File Number)

ADDITIONS AND INSTALLATIONS

(Below enter chronologically all modifications, additions, introductions of water, sewer, lights, heating, etc.)

[illegible]

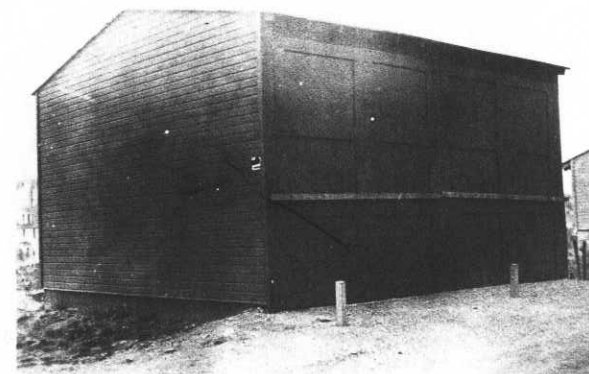
INSTRUCTIONS.—“a” State whether heated from central heating or by individual heating plants, stoves, furnaces, or fireplaces.
 “b” State whether steam, vapor, hot water, or hot air.
 “c” State whether gas, coal, oil, or central heating plant.

See reverse side of form.

O.Q.M.G.: Plan No. 700-439 Building No. T-4

Gas	None
Electric	None
Oil	None
Steam	None
Water	None

(Below enter chronologically all modifications, additions, introductions of water, sewer, lights, heating, etc.)

[illegible]

See reverse side of form.

Post Plan No. None

O.Q.M.G.: Plan No. 800-1007 Building No. T-5

Place Fort Ruckman, Nahant, Mass.
Designation of building Guard House Capacity 11
Total cost, \$ 5,038.00 Date completed Sept. 10, 1941
Material: Walls Wood Foundation *Concrete
Roof Prepared roofing ^{on} wood Floors **Wood & concrete
Total floor area above basement, square feet 830 sq. ft.
Size: Main building 33'-2"x25'-4" Wings None Basement None
a Indiv. heating system Height of first floor above ground 1'
(How heated)
b Forced warm air How lighted Electric
(Type of heat) Water connections 1 1/2"
c Coal Sewer connections 4"
(Type of domestic hot water heater) Gas connections None

COOKING RANGES INSTALLED
(Give quantity and size)

Coal	None
Gas	None
Electric	None
Oil	None
Steam	None

REFRIGERATORS INSTALLED
(Give quantity and size)

Gas	None
Electric	None
Ice	None

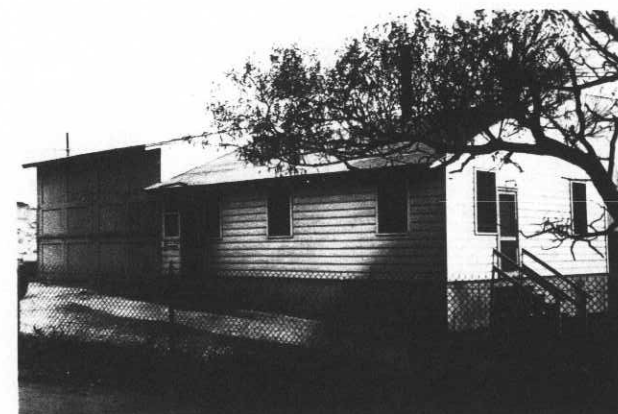
METERS INSTALLED
(Give quantity and capacity)

Gas	None
Electric	None
Oil	None
Steam	None
Water	None

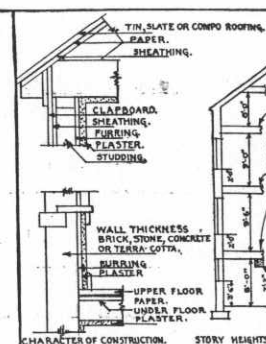
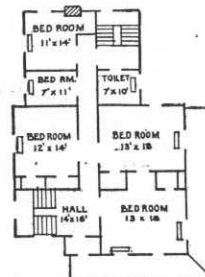
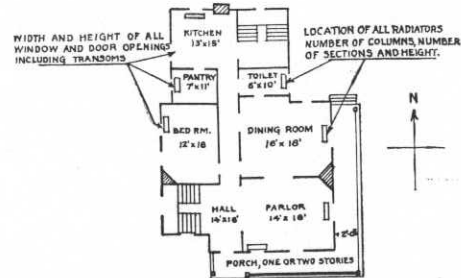
Approval of Secretary of War
as required by A. R. 30-1435
(Give date and File Number)

ADDITIONS AND INSTALLATIONS

(Below enter chronologically all modifications, additions, introductions of water, sewer, lights, heating, etc.)

[illegible]

INSTRUCTIONS.—“a” State whether heated from central heating or by individual heating plants, stoves, furnaces, or fireplaces.
 “b” State whether steam, vapor, hot water, or hot air.
 “c” State whether gas, coal, oil, or central heating plant.



BASEMENT	FIRST FLOOR	SECOND FLOOR
IN SPACE BELOW SKETCH BASEMENT AND FLOOR PLANS OF BUILDINGS, GIVING DATA AS PER PLANS ABOVE		

IN SPACE BELOW SKETCH BASEMENT AND FLOOR PLANS OF BUILDINGS, GIVING DATA AS PER PLANS ABOVE

REMARKS

*Concrete piers with the exception of the area of the heater room which has concrete foundation walls.
**Floor in heater room is concrete, other floors 2 1/4" matched flooring

Note: For building plan see OPMG drawing #800-1007.

INSTRUCTIONS

If plans of building are available, forward copy of same showing information called for above. These plans should be checked against the building and any variations from same in the building as constructed should be noted.

If plans are not available make sketch plans and elevation in spaces above. The plans shown are typical of "quarters." Similar plans may be made for all types of buildings. There are 10 squares to the inch. Each square will represent 1', 2', 4', or 8', etc., as may be necessary to show entire building in the space allowed. Show inside dimensions and designation of each room. Indicate location of water and sewer connections. In space under heading "Details" show character of construction, story heights, etc.

U. S. GOVERNMENT PRINTING OFFICE 16-6668

O.O.M.G.: Plan No. 800-661 Building No. T-6

(Below enter chronologically all modifications, additions, introductions of water, sewer, lights, heating, etc.)

[illegible]

See reverse side of form.

Post Plan No. None

O.Q.M.G.: Plan No. 700-1165 Building No. T-7

Place Fort Ruckman, Nahant, Mass.
Designation of building Barracks Capacity 63 men
Total cost, \$ 8,463.72 Date completed Sept. 10, 1941
Material: Walls Wood Foundation **Concrete
Roof ~~Wood and prepared roofing on Wood~~ Floors *Wood
Total floor area above basement, square feet 4720 sq. ft.
Size: Main building 80'x29'-6" approx. Wings None Basement None
a Individual heating plants 23' High Height of first floor above ground 12"
(How heated)
b Forced Warm Air How lighted Electric
(Type of heat) Water connections 2"
Sewer connections 6"
c Coal Gas connections None
(Type of domestic hot water heater)

COOKING RANGES INSTALLED
(Give quantity and size)

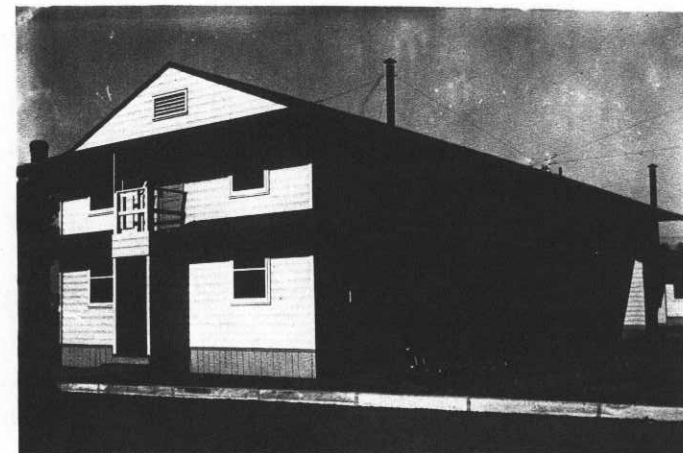
Coal None
Gas None
Electric None
Oil None
Steam None

REFRIGERATORS INSTALLED
(Give quantity and size)

Gas None
Electric None
Ice None

METERS INSTALLED
(Give quantity and capacity)

Gas	None
Electric	None
Oil	None
Steam	None
Water	None



ADDITIONS AND INSTALLATIONS

(Below enter chronologically all modifications, additions, introductions of wa

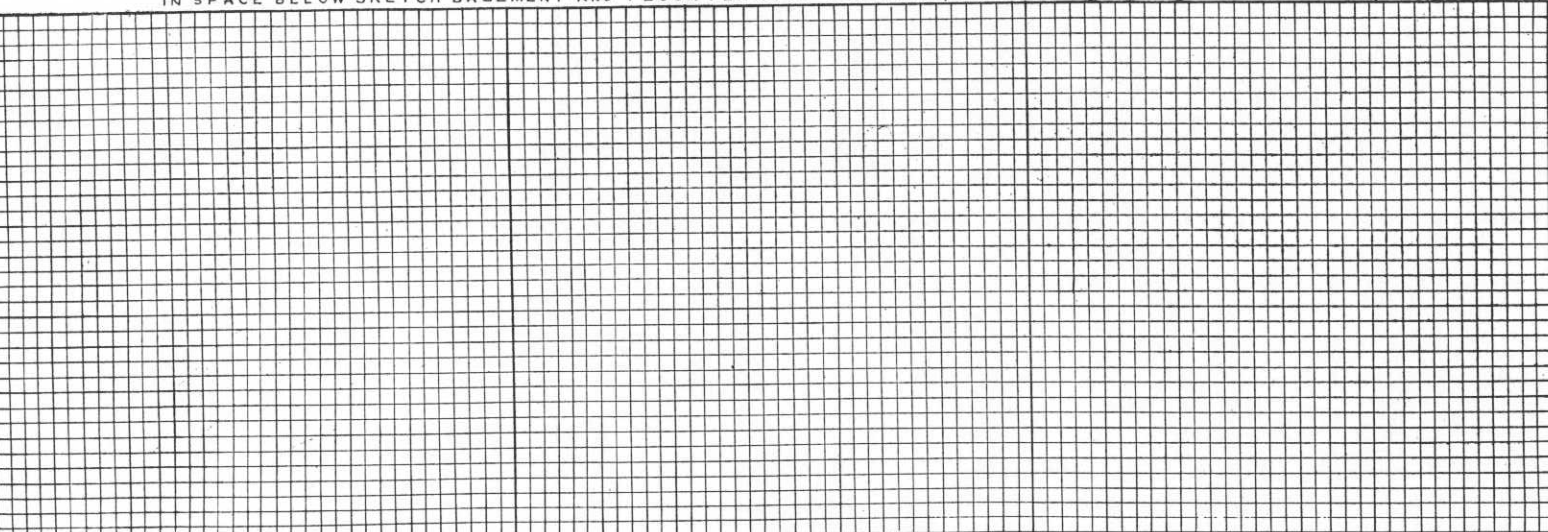
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INSTRUCTIONS.—“a” State whether heated from central heating or by individual heating plants, stoves, furnaces, or fireplaces.
 “b” State whether steam, vapor, hot water, or hot air.
 “c” State whether gas, coal, oil, or central heating plant.

See reverse side of form.



IN SPACE BELOW SKETCH BASEMENT AND FLOOR PLANS OF BUILDINGS, GIVING DATA AS PER PLANS ABOVE



*Floors in heater room, toilet and shower rooms are concrete - other floors

2 1/4" matched flooring.

**Concrete piers with the exception of the heater, toilet and shower rooms which have concrete foundation walls.

Note: For building plan see **OgMG**Drawing #700-1165

INSTRUCTIONS

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U. S. GOVERNMENT PRINTING OFFICE 3-8891

Post Plan No. None

O.O.M.G.: Plan No. 700-1165 Building No. T-8

Place Fort Ruckman, Nahant, Mass.
Designation of building Barracks Capacity 63 men
Total cost, \$ 8,463.72 Date completed Sept. 10, 1941
Material: Walls Wood Foundation **Concrete
Roof ~~Wood & Prepared roofing on~~ Wood Floors *Wood
Total floor area above basement, square feet 4720 sq. ft.
Size: Main building 90'x29'-6" approx. Wings None Basement None
a Individual Heating Plants 23' High Height of first floor above ground 12"
(How heated)
b Forced Warm Air How lighted Electric
(Type of heat) Water connections 2"
c Coal Sewer connections 6"
(Type of domestic hot water heater) Gas connections None

COOKING RANGES INSTALLED
(Give quantity and size)

Coal None
Gas None
Electric None
Oil None
Steam None

REFRIGERATORS INSTALLED
(Give quantity and size)

Gas None
Electric None
Ice None

METERS INSTALLED
 [(Give quantity and capacity)]

Gas None

Electric None

Oil None

Steam None

Water None

ADDITIONS AND INSTALLATION

(Below enter chronologically all modifications, additions, introductions of v

[illegible]

INSTRUCTIONS.—“a” State whether heated from central heating or by individual heating plants, stoves, furnaces, or fireplaces.
 “b” State whether steam, vapor, hot water, or hot air.
 “c” State whether gas, coal, oil, or central heating plant.

See reverse side of form.

Post Plan No. None

O.Q.M.G.: Plan No. 700-1165 Building No. T-9

Place Fort Ruckman, Nahant, Mass.
Designation of building Barracks Capacity 63 men
Total cost, \$ 8,463.72 Date completed Sept. 10, 1941
Material: Walls Wood Foundation **Concrete
Roof Wood and prepared roofing on Wood Floors *Wood
Total floor area above basement, square feet 4720 sq. ft.
Size: Main building 80'x29'-6" approx. Wings None Basement None
a Individual heating plants 25' high Height of first floor above ground 12"
(How heated)
b Forced Warm Air How lighted Electric
(Type of heat) Water connections 2"
Sewer connections 6"
c Coal Gas connections None
(Type of domestic hot water heater)

COOKING RANGES INSTALLED
(Give quantity and size)

Coal None
Gas None
Electric None
Oil None
Steam None

REFRIGERATORS INSTALLED

(Give quantity and size)

Gas _____ None _____

Electric _____ None _____

Ice _____ None _____

METERS INSTALLED

(Give quantity and capacity)

Gas None

Electric None

Oil None

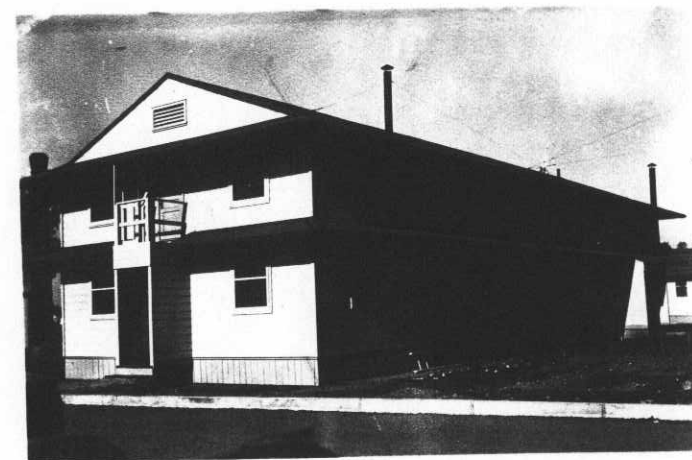
Steam None

Water None

Approval of Secretary of War
as required by A. R. 30-1435
(Give date and File Number)

ADDITIONS AND INSTALLATIONS

(Below enter chronologically all modifications, additions, introductions of water, sewer, lights, heating, etc.)

[illegible]

INSTRUCTIONS.—“a” State whether heated from central heating or by individual heating plants, stoves, furnaces, or fireplaces.
 “b” State whether steam, vapor, hot water, or hot air.
 “c” State whether gas, coal, oil, or central heating plant.

See reverse side of form.

Post Plan No. None

O.Q.M.G.: Plan No. 700-1133 Building No. T-10

Place Fort Ruckman, Nahant, Massachusetts
Designation of building Mess Hall Capacity 170
Total cost, \$ 6177.82 Date completed September 10, 1941
Material: Walls Wood Foundation Concrete Piers
Roof Wood and prepared roofing on Wood Floors Wood
Total floor area above basement, square feet 2231
Size: Main building 87'-4"x25'4" Wings None Basement None
a Stoves Height of first floor above ground 12"
(How heated)
b Cannon How lighted Electric
(Type of heat)
Water connections 2"
c Booster Boiler Sewer connections 6"
(Type of domestic hot water heater)
Gas connections None

COOKING RANGES INSTALLED
(Give quantity and size)

(Give quantity and size)

Coal 3-#5 Army Ranges

Gas None

Electric Deep fat fryer

Oil None

Steam None

REFRIGERATORS INSTALLED

(Give quantity and size)

Gas None

Electric None

Ice 1-1/2 1-1/2

METERS INSTALLED

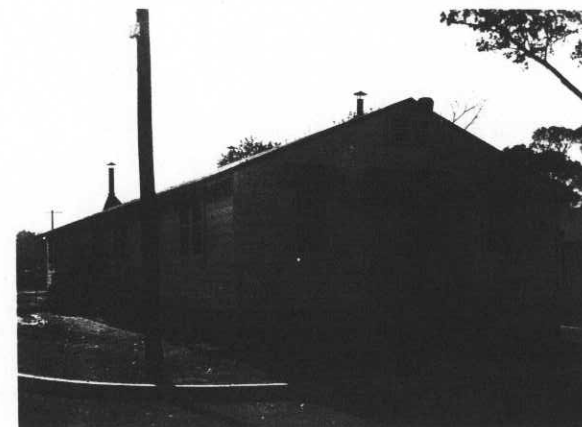
(Give quantity and capacity)

Gas	None
Electric	None
Oil	None
Steam	None
Water	None

Approval of Secretary of War
as required by A. R. 30-1435
(Give date and File Number)

ADDITIONS AND INSTALLATIONS

(Below enter chronologically all modifications, additions, introductions of water, sewer, lights, heating, etc.)

[illegible]

INSTRUCTIONS.—“a” State whether heated from central heating or by individual heating plants, stoves, furnaces, or fireplaces.
 “b” State whether steam, vapor, hot water, or hot air.
 “c” State whether gas, coal, oil, or central heating plant.

See reverse side of form.