COMPLETION REPORT

COVERING THE DESIGN OF

CAMP LEJEUNE U. S. MARINE BARRACKS NEW RIVER, NORTH CAROLINA

FOR THE

U. S. NAVY Bureau of Yards and Docks CONTRACTS NOy 6006 and 7795 OCTOBER 1, 1942 - DECEMBER 18, 1943

PREPARED BY

CARR AND J. E. GREINER COMPANY ARCHITECT ENGINEERS

G. W. CARR, ARCHITECT DURHAM, NORTH CAROLINA J. E. GREINER COMPANY BALTIMORE, MARYLAND

COPY Nº

VOL. III

22

Office of the Camp Engineer S. A. Munch, Supt. Plumbing and Heating Camp Lejeune, N. C.

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VOL. III

J. E. GREINER COMPANY BALTIMORE, MARYLAND

> 22 COPY Nº

CARR AND J. E. GREINER COMPANY ARCHITECT ENGINEERS DURHAM, N. C. BALTIMORE, MD.

GEO. WATTS CARR, A. I. A. OHN E. GREINER, HON. M. AM. SOC. C. E. ERSCHEL H. ALLEN, M. AM. SOC. C. E.

Officer-in-Charge, Contracts NOy-6006 and NOy-7795 Camp Lejeune, New River, North Carolina

Dear Sir:

We submit herewith, Volume III of our Completion Report covering Architectural and Engineering services rendered at Camp Lejeune, New River, North Carolina.

The report covers the interim between the termination of Contract NOv-4751 on September 30, 1942 and the beginning of Contract NOy-6006 on March 3, 1943; Contract NOy-6006 which was terminated on September 25. 1943 and Contract NOy-7795 which was terminated December 18, 1943.

Facilities designed were located in most of the areas discussed in Volumes I and II of the completion report and in addition. important installations were designed for Montford Point, Women's Reserve, Rifle Range, Labor Battalion, and Beach Areas.

All design work was performed at the site under the general supervision and direction of the Officer-in-Charge, representing the Chief of the Bureau of Yards and Docks.

The work was performed under the supervision of Mr. B. Everett Beavin, Project Manager, representing the Architect-Engineers.

During the period covered by this report, the Officer-in-Charge was Commander Richard A. Williams. Colonel W. P. T. Hill was the Liaison Officer of the U. S. Marine Corps until March, 1943, at which time he was succeeded by Lt. Col. "A" "E" Dubber.

We would like to take this occasion to express our sincere appreciation of the assistance and cooperation which has been extended to us by the Navy and Marine Corps personnel.

HHA . MW

REPLY TO MARINE BARRACKS NEW RIVER, N. C.

Baltimore, Maryland December 18, 1943

Respectifully submitted.

CARR AND J. E. GREINER COMPANY

TABLE OF CONTENTS

VOLUME III

LETTER OF TRANSMITTAL

PART I - GENERAL DATA

A

B

C

D

E

F

G

Chapter

Purpose: and Scope of Report Architect-Engineers' Contracts Report of U. S. Marine Board Changes of Sites for Various Ad Design Considerations and Rest; Engineering Data Summary of Facilities Provided

GENERAL AREA MAP. REVISED

PART II - DESIGN OF THE PROJECT

Chapter

A	Project Manager's Office
В	Reproduction Dept.
С	 Additing Department
D	Site Planning Department
E	Architectural Department
F	Structural Department
G	Mechanical Department
Η	Electrical Department
I	Plumbing
J	Central Heating Plants
K	Communications
L	Roads, Railroads and Airports
М	Water Supply and Distribution
N	Sewage Collection and Treatment
0	Survey Department
P	Record Mapping
Q	List of Drawings prepared
R	List of Specifications prepared

TOPOGRAPHIC MAPS

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	Page
	870
ALL TO A	871
	873
ctivities	873
rictions	873
	874
	875

Page	
877	
884	
885	
886	
888	
962	
963	
994	
1015	
1016	
1033	
1040	
1041	
1059	
1071	
1087	
1091	
1153-1	164

CHAPTER A - PART I

PURPOSE AND SCOPE OF THE REPORT

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The purpose of the volume is twofold; namely, (a) to pick up the thread of Volumes I and II which covered Contract NOy-4751, which was terminated on September 30, 1942 and to delineate the changes and modifications made to the various facilities during construction, and (b) to present a record of the engineering procedure and design of those parts of Camp. Lejeune which the Architect-Engineers were directed to consider after September 30, 1942.

In reading this report it should be realized that construction of the original project was not completed on September 30th, 1942, and some parts of the original project were modified and enlarged, also, that new areas were laid out and developed.

Part I covers generally the events leading up to the design of the various activities, fundamental engineering data, and a summary of the facilities provided, including those listed in Volumes I and II of the Architect-Engineers' report.

Part II covers the work involved in the actual design of the activities. This part is subdivided so as to present the work of the various departments into which the Architect-Engineers' organization was divided. Part II also contains lists of the drawings and specifications prepared and not listed in Volume II of the previous report.

In order to have a continuous record covering the engineering work at Camp Lejeune, this report covers not only the work done by Carr and J. E. Greiner Company under Contracts NOy 6006, and NOy 7795, but also the work done between October 1. 1942 and April 5, 1943, while its employees were on the payroll of Contract NOy 4750.

There have been included in this Volume, reproductions of certain progress photographs which were not available at the time Volumes I and II were issued.

CHAPTER B - PART I

ARCHITECT-ENGINEERS! CONTRACTS

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B-1. Architect-Engineers' services were performed in three distinct phases as follows!

October 1, 1942 to March 13, 1943 - The personnel of the Architect-Engineers was left at New River under the direction of the Officer-in-Charge to do certain work uncompleted at the closeout of Contract NOy-4751. In addition, new work of an estimated value of \$1,481,000. was designed. consisting mainly of sweeping and drainage of New River, finger piers, additional roads and sidewalks, Mark I gunnery trainer, athletic and recreational facilities, additional wells and pumps, gun emplacements. dog training camp. Naval Hospital diesel plant and garage. and miscellaneous small projects. During this period the employees were carried on the payroll of the CPFF general contractor, Contract NOy-4750.

March 13, 1943 to September 25, 1943 - During this period Carr and J. E. Greiner Company functioned under CPFF Contract NOv-6006.

September 25, 1943 to December 18, 1943 - The Architect-Engineers operated under lump-sum Contract NOy-7795.

B-2. Under the terms of Contract NOy-6006, H. H. Allen, Engineer, of Baltimore, Maryland, doing business under the name of J. E. Greiner Company and G. W. Carr, Architect, of Durham, North Carolina. were associated as Architect-Engineers to prepare plans and specifications for work to be constructed under Contract NOy-6007, with an estimated value of \$5,588,500. This contract involved generally, work at Montford Point Camps 2-A and 3, rehabilitating Camp Knox, the Women's Reserve Area, additional facilities in the Industrial Area, additional facilities in the regimental and administrative area, facilities for colored messmen at Paradise Point and facilities for 1,000 colored men at the Rifle Range.

Change Order "A" authorized additional work made up principally of additional funds for changes in scope of dispensaries, facilities for 1,000 Negro Marines in the Industrial Area, office building, increase in capacity for electrical distribution system and miscellaneous small parts.

Change Order "B" authorized additional work consisting mainly of thirty school buildings, a bus terminal, auxiliary steam and water lines, Lighter-than-air facilities, additional railroad facilities and an additional B.O.Q. for the Women's Reserve Area.

Change Order "C" authorized the carrying of Navy Auditing and Inspection personnel on payroll of the Architect-Engineers.

B-3. Under the terms of lump-sum Contract NOy-7795, H. H. Allen, Engineer, of Baltimore, Maryland, doing business under the name of J. E. Greiner

Company, and G. W. Carr, Architect, of Durham. North Carolina were associated as the Architect-Engineers to prepare plans and specifications for the work remaining to be completed as of September 25, 1943, consisting mainly of swimming pools, signal school barracks, mess halls, schools, heating plant and utilities, addition to Central Heating Plant, dispensaries, etc. Also included was the work of completing hard copy record maps, furnishing photact and blueprint service, furnishing supplies and carrying on the Architect-Engineers' payroll the Auditing and Inspection forces of the Officer-in-Charge.

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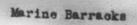
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The Navy Department furnished office and drafting room supplies and equipment, office space, heat, light and furniture.

Inspection work was under the direction of the Officer-in-Charge, the Architect-Engineers handling the preparation of plans and specifications.



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New River, N. C. October 1941 River Road At B Street Regimental Area



CHAPTER C - PART I

REPORT OF THE U. S. MARINE BOARD

No changes or additions were made to the report of the U.S. Marine Board which served as the fundamental basis for the layout of Camp Lejeune. This report is reproduced in Volume I of the Completion Report of the Architect-Engineers.

CHAPTER D - PART I

CHANGES OF SITES FOR VARIOUS ACTIVITIES

No major changes were made in sites described in the original Marine Board report other than those listed in Chapter D. Part I of Volume I.

It is understood that artillery, impact and firing areas have been changed from those shown in the original report.

Barrage Balloon and Parachute Training have been discontinued.

A labor camp for 1,000 men was located adjoining the Industrial and Supply Area.

CHAPTER E - PART I

DESIGN CONSIDERATIONS AND RESTRICTIONS

E-1. The type of architecture for Montford Point, Rifle Range, Labor Battalion and other areas was changed to achieve low costs and maximum comfort for the troops to be housed. It is believed that the new barracks of tile and stucco construction represent a very economical, semi-permanent type of housing.

E-2. Signal School facilities were arranged to avoid interference by tall structures.

E-3. The controlled materials plan and other directives concerning critical materials had a very far reaching effect on the design of the structures.

E-4. Exceptions necessarily were made to the previously reported spacing of 60 feet between buildings at the B.O.Q., Married Officers' Quarters, Midway Park and the new school buildings which were not contemplated when the regimental areas were laid out.

Marine Barracks New River, N. C. July 1942 Homosote Huts at Montford Point Camp



CHAPTER F - PART I

ENGINEERING DATA

F-1. In addition to the engineering data given in Volume I, the following data were obtained:

Rainfa	11: Maxi	mum rain	fall	(to	otal	L)
15	minutes	-	1.6	ind	ches	5
30	minutes	-	2.6	ind	ches	3
60	minutes	-	3.0	ind	ches	5
72	hours	-	9.3	ind	ches	3
Annual	rainfall	driest	year	-	28	inches
	. rainfall					
	. rainfall					inches

F-2. Sunshine. Percentages of possible time - 64%

F-3. Temperature. Monthly average temperature

January	-	470	F.
February	-	490	F.
March	-	55 ⁰	F.
April	-	62 ⁰	F.
May	-	70°	F.
June	-	760	F.
July	-	800	F.
August	-	79 ⁰	F.
September	-	74 ⁰	F.
October	-	64 ⁰	F.
November	-	55°	F.
December	-	48 ⁰	F.

F-4. New River. Dissolved Oxygen, pH, B.O.D., temperature, chlorides, bacteria counts and other data showing the effect of sewage discharged into New River were made the subject of various reports and are summarized on P. W. Drawing No. 93, Y. & D. 228429.

F-5. Tides. The range of tides at various locations along New River was observed and the data are on record in the Public Works Office. See also Tidal Bench Marks, North Carolina, U. S. Coast and Geodetic Survey publica. tion No. T-18, June 1939. Tide gauges were established at Wallace Creek Boat Basin and at the Ponton Bridge.

F-6. Chemical and bacteriological tests of the performance of the water and sewage treatment plants were made regularly and are on file in the Camp Engineer's Office.

CHAPTER G - PART I

SULMARY OF FACILITIES PROVIDED

As of December 18, 1943, the Architect-Engineers had designed improvements with an estimated cost of \$ 70,000,000. In order that the extent of the work may be visualized, the following statistics are given:

1743	Buildings.	
1050	Hut Buildings.	
50,000	Troops Housed.	
900	Dwellings.	
2	Hospitals.	
10	Infirmaries and	despensa
2	Incinerators.	-
13	Theaters.	
4	Churches.	
17	Central Heating	Plants.

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Electrical

29,259,246	KW installed load.	
15	Substations.	
100.7	Miles Pole Line.	
.16.7	Miles Underground Distri	b
771	Transformers.	

Communications

75.3	Miles	Cable.		
32.5	Miles	Telephone	Pole	Line
7	Exchanges.			
2507	Teleph	nones.		

Roads

127 Miles of Roads. Miles of Bridges 0.29

Railroads

- 15.6 Miles Track 0.17 Miles of Trestle Airports
 - 3 5000 foot runways

-673-

aries.

bution.

Water

.

- 98 Miles Water Lines.
 58 Wells with Pumping Stations.
 3 Water Treatment and Pumping Plants.

Sewerage

- 62 Miles Sewers.
- 13 Sewage Pumping Stations.
 6 Sewage Treatment Plants.

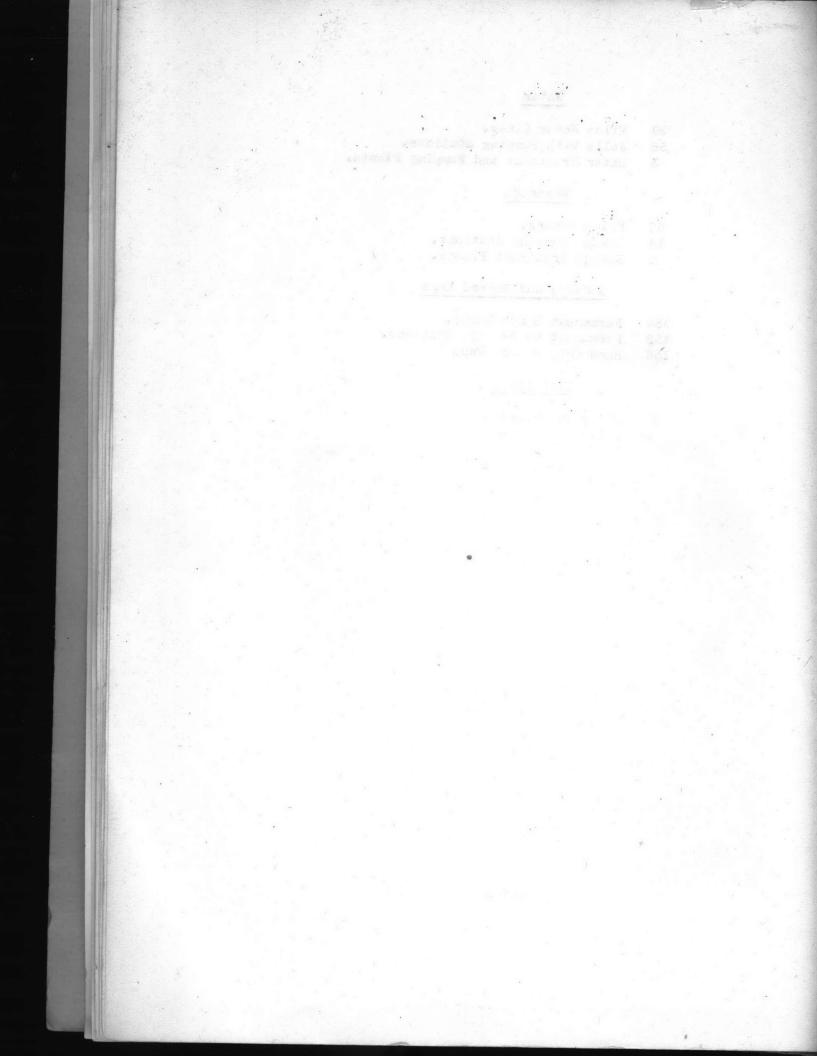
Surveys and Record Maps

- 354 Permanent Bench Marks.
 452 Permanent Coordinate Stations.
 136 Hard Copy Record Maps

Mechanical

Miles Steam Mains Miles Gas Mains 25 6





Over Size Form

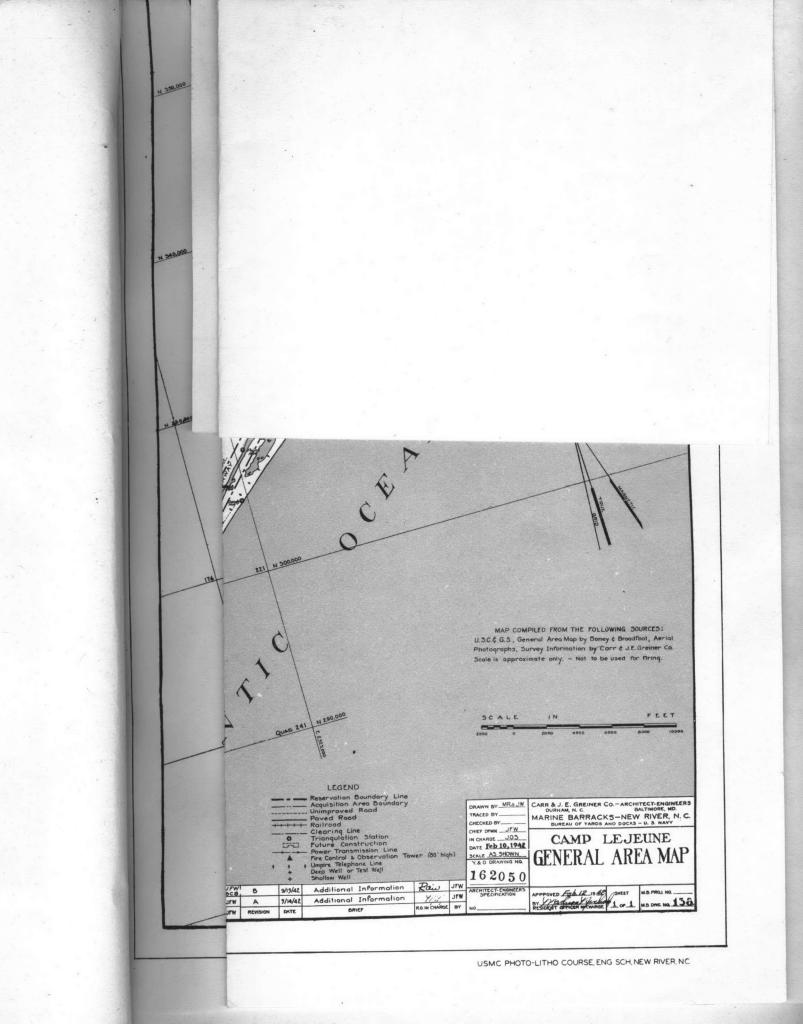
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Camp Lejeune
General Area Map
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CHAPTER A - PART II

PROJECT MANAGER'S OFFICE

A-1. Introduction. The work of the Project Manager's office was continued on the same basis as outlined in Volume I. Breifly, the problem was to make surveys and studies for authorized projects and to prepare specifications and working drawings in the shortest possible time.

A-2. Offices. Offices occupied by the company were as follows:

From October 1, 1942 to July 10, 1943, the offices were located in Barracks 205, Division Training Area.

From July 10, 1943 to the termination of the work the offices were located in the Public Works office, Building 1005, Industrial and Supply Area.

A-3. Organization. Shown hereinafter is the arrangement of the organization .:

The Project Manager reported to the Naval Offiver representing the Chief of the Bureau of Yards and Docks. Commander R. A. Williams was Officer in Charge of Construction during the entire period.

The Project Manager was responsible for the building up of the organization, securing equipment, obtaining necessary typical plans, specifications and shop drawings from the Navy Department, handling the funds of . the company and making decisions concerning important design features. During the period under discussion Mr. B. Everett Beavin of Annapolis, Maryland, served as project manager.

Reporting directly to the project manager were the heads of the following departments:

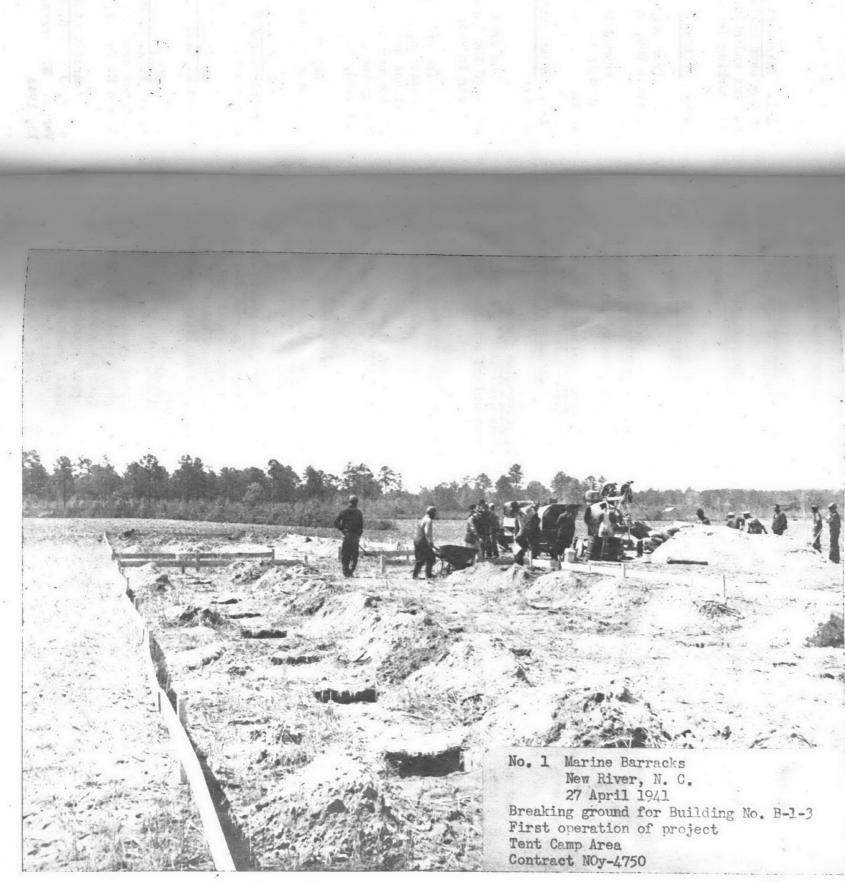
Reproduction Department. This department assumed many of the duties formerly carried out by the office engineer. Mr. Creston E. Funk was in charge during the entire period.

Auditing Department. Auditing Work was under the direction of Mr. Howard W. Law.

Site Planning Department. The work of this department was carried on by Mr. A. E. Ellington until September 6,1948, at which time the department was combined with the Civil Engineering Department in charge of Mr. George E. Taylor, Jr.

Architectural Department. The work of this department was in charge of Mr. Joseph D. Rivers. Due to the serious illness of Mr. Rivers, Mr. Vernon W. Harrison acted as chief architect from October 23, to December 18, 1943

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Structural Department. Work of this department was under the direction of Mr. Hugh L. Waugh until September 25, 1943, at which time the work was placed under the direction of Mr. John J. Jenkins, Jr.

Mechanical Department. The work of this department was headed by Mr. Clifton N. Nilson.

Electrical Department. This department was headed by Mr. Joseph G. Thompson.

Plumbing Department. Plumbing work was under the direction of the mechanical department during this period.

Central Heating Plant. (Division Training Area) This work was under the direction of Mr. J. M. Shutt. Outlying plants were designed by the Mechanical Department.

Communications. Work of this department was under the direction of Mr. H. B. D'Oyley until September 25, at which time the work was assumed by the Navy Personnel.

Roads, Railroads, Drainage and Airports. Mr. A. E. Ellington was in charge of this work until Sept. 6, 1943, at which time it was placed under the Civil Engineering Department headed by Mr. G. E. Taylor, Jr.

Water Supply and Distribution. Mr. F. D. Kramer was in charge of this department until September 25, 1943 at which time it was combined with the Civil Engineering Department under the direction of Mr. G. E. Taylor.Jr.

Sewage Collection and Treatment. Mr. G. E. Taylor, Jr. was in charge of this work.

Surveys. Mr. William R. Cook was in charge of this work.

Record Mapping. This work was in charge of Mr. W. R. Cook, assisted by Mr. J. F. Wilson. Jr.

A-4. Personnel. Difficulties expercienced during the early part of the project were alleviated somewhat during the period under discussion. However, there always was a shortage of experienced personnel, particularly in the mechanical department. A tabulation of the number of employees at monthly intervals follows:

+	Month		Num	ber of
October,	1942	•		58
Novembor				48
December		,		48
January,			,	44
February				39
March, 1				45
April, 19	943			51

-878-

Employees

Month	Number of E
May, 1943 June, 1943 July, 1943	74 69
August, 1943	70 69
September, 19 October, 1943	3 57
November, 194 December, 194	
A-5 Office Procedure. (in Volume I. The weekly estimate file, the advance file were not kept active	status of plans and spe ce planning and design d
A-6. Administration of H closely the outline given design formerly done by t manager.	n in Volume I except the the office engineer was
A-7. Narrative. In order formed during this period is given below:	er that a clear picture 1, a brief outline, arra
October 1, 1942	Design work continued ployees were transfer General Contractor,
October 2, 1942	Began preparation of emplacements, additio Montford Point. Site approved. Began stud treatment.
October 5, 1942	Submitted tracings fo Plant (construction d of diagrams for colle Central Heating Plant cation for loading ran
October 7, 1942	Plans completed for c Tent Camps, Montford

October 8, 1942

October 11, 1942

October 12, 1942

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Started work on service drives, Officers' Quartors Area.

Began systematic sampling of New River to provide data for pollution studies.

Bogan design for standby generator, Naval Hospital.

-879-

mployees

ry similar to that outlined ecifications file, the data file, and the follow-up

n of the project followed at the coordination of handled by the project

may be had of the work peranged in chronological order.

d as before except that emrred to the payroll of the

plans for finger piers. gun onal water supply for e for Post Theater building * dies of boiler feed-water

or Tent Camp Water Treatment deferred). Began preparation ection and ash handling at , began plans and specifimp, Industrial Area.

communications cable between Point and Faradise Point.

	sectore to real	A RECOLUMN	October 19, 1942	Started work on surveys of for permanent records.
		test test	October 22, 1942	İssued plans for Duck Crown
	- 08 - 50	in and a set a set of	November 16, 1942	Mr. John E. Greiner, memb away.
		e e e e e e e e e e e e e e e e e e e	November 20, 1942	Public Works Record Offic
	min chain an barb barb e an isanga bir Brinn a sha		November 24, 1942	Notified to prepare for c control materials plan.
do-weated to a through the	a na	Tarity light for statistic	November 25, 1942	Began preparation of plan ivities.
Bandlick for for the band of the second s	fe for en la servici de la servici ones al servici or a for i de la servici Lisema voi de la servici de la servici		December 8, 1942	Began preparation of plan Naval Hospital.
		and a second	December 16, 1942	Started preparation of pl vention, condensate retur
		and a second s	December 17, 1942	Began preparation of plan training camp.
			January 1, 1943	Site plan approved for d
and the second			January 8, 1943	Began work on Montford Po
the supply for ant			January 20, 1943	Site plan approved, Montf
goldsteinit rate (* 1			January 23, 1943	Preparation of horizontal data, to be used by the M the reservation, started.
and the product of the second s	an an ann an Anna an Anna Anna. Martairte an Stàiteanna Anna Anna Anna A		January 28, 1943	Plans for Radar Area near
	national de la company a grangement de la company		February 1, 1943	Surveys for Women's Reser
			February 5, 1943	Surveys for Grade and Hig
	handa soʻr bar iyon soʻr domi ba'qusi yoqo Vi		February 16, 1943	Bogan preparation of plan Trainer and gun sheds at 1
-qarah yéznakkun tensi		4 6 6 C	February 25, 1943	Surveys for rehabilitation
biven of sould will be	e parle so el aroch e ce portence molanite, est an		March 1, 1943	Started preliminary survey Troops at Rifle Range. Be for storehouse for each p
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of reservation boundry

bek-Starling Road. Began bad.

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ns for athletic fact-

is for new garage at

lans for corrosion pren systems.

ns for dog hospital and

log training area.

pint Camp No 2.

Cord Point Camp No. 2.

and vertical control arine Corps in mapping

Wallace Creek authorized.

ve Arca started.

ch School Started.

ns for Mark I Gunnery Montford Point.

on of Camp Knox started.

eys for camp for Negro legan proparation of plans ost exchange.

standing and the standard in t	Antonio III, 1945 Alternationalista	March 13, 1943		Following Projects autho (a) Montford Pt. Camp 2A (b) Montford Pt. Camp 3,
added galf with the set with the set of the set of the				(c) Rehabilitation of Ca
 A set of the set of				(d) Women's Reserve Area
entan erite oda or Mathematical entanti att				(e) Industrial Area, P-1 (f) Reg. and Admin. Area
	5 1 X 1			(g) Paradise Pt. Colored
A substant of an and of the product of the second		March 20, 1943		Prepared estimates for G
	the star for the second			spected test borings for
		March 24, 1943		Submitted recommendation
	* * 185 - 26 **** av * 1			at Montford Point.
the second in the all the second second of a		1 11 1017		C:1
		March 26, 1943		Site Plan approved for M mitted sketches and esti
in enemy that the are to be the transfer of	a share a second second		L.	ers for American Red Cro
	and the second of	March 27, 1943		Received instructions to
				line to Naval Hospital.
		March 29, 1943		Site plan approved for M
a delight of good their control and the second second	Service States			
		March 30, 1943		Completed soil borings a
Store which the man we have a well with		March 31, 1943		Site plan approved for r
				and sidewalks, Industria
in a stall grade on brighter is the set				
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		April 6, 1943		Site plan approved for P
watches being and the second to the second state		· · · · · · · · · · · · · · · · · · ·		and Paradise Pt. Colored
Reports ask as to be and				
		April 19, 1943		Began preparations of pr
and a second statistic many area to the second second second				estimates for Lighter-th
		April 24, 1943		Roceived instructions to
· DOT ANY STATEMENT DESCRIPTION OF THE STATE		April 200 2015		
and the second first the state of the second second		April 29, 1943		Installation of Photact
approximation of the second		May 3, 1943		Site plan for new Public
Weaking I would fail whether to the second states of	이 아이 나는 가장 가지 않는			approved.
property a president and the ment of the second to		May 4, 1943		
the said and so and the second second				Site plan approved for G
		May 8, 1943		Notified that name of Re
anon and drove and which are the restricted of property				from Marine Barracks to
and a second of the second		May 11, 1943		
the second se		, 1040		Began preliminary studie

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prized to be designed: , P-1100. P-1101. mp Knox, P-1102. , P-1200 1300 to P-1307, incl. , P-1500 to P-1503, incl. Camp, P-1600

Frade and High School; inthis building.

s as to Sewage Treatment

Contford Pt. Camp 2A. Submates covering Headquart-SS.

design secondary water

fontford Pt. Camp NO. 3.

at Montford Pt.

chabilitation of Camp Knox al Area.

omen's Reserve Area.

Post Dispensary Warehouse, Camp.

eliminary sketches and an-Air Facilities.

design an artillery park.

equipment authorized.

Works office building

rade and High School.

servation' had been shanged Camp Lejeune.

s for Bus Terminal.

	June 2, 1943	Site plan approved
	June 4, 1943	Instructed to begin ming pools.
	June 11, 1943	Began studies for : al distribution.
÷.	June 24, 1943	Began preliminary : Guard House, also : Onslow Beach.
	July 6, 1943	Instructed to proce also steam line to approved for two pe post communications storage sheds.
	July 10, 1943	Moved into new Publ
	July 19, 1943	Began work on stear to Division Trainin
	August 6, 1943	Site plan approved
	September 25, 1943	Site for Signal Sch
	September 25, 1943	Contract NOy-6006 t started. Major it swimming pools, add chemical storage bu itics. Included ad under way on old pu drafting to complet various completion
	October 11, 1943	Completed plans for foundation.
	October 14, 1943	Completed plans and foundations for Sig
	November 6, 1943	· Began preparation of
	November 6, 1943	Plans and specifics swimming pools.
	November 13, 1943	Began proparations Facilities.
	November 18, 1943	Completed plans and and utilities at Si

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for two warehouses, Ind. Area. n preliminary studies for swim-

increasing capacity of electric-

skatches and estimates for Signal School Facilities,

eed with plans for Bus Terminal Naval Hospital. Site plans aint and oil storage sheds, s facilities and two motor

lic Works Building in Ind. Area.

m line connecting Naval Hospital ng Area.

for Uniform Shop.

hool Sclected.

terminated and Contract NOy-7795 ems of new contract are four dition to Central Heating Plant, uilding, and Signal School facillso is the completion of work rojects, field surveys and te hard copy record maps, and reports.

r Signal School tank and

d specifications for piling and gnal School Facilities.

of plans for Red Cross Building.

ations completed for three large

of plans for Photographic

d specifications for buildings ignal School.

December 2, 1943

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AGE S mark

December 4, 1943

Swimming Pool.

Completed plans and specifications, Red Cross Building, Photographic Facilities, Office and Storage Space Central Heating Plant, Chemical Storage Building, Water Treatment Plant.

December 5, 1943

December 18, 1943

Contract NOy-7795 terminated,

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Completed plans and specifications for Paradise Pt.

Completed plans and Specifications, B. O. Q., Balloon Barrage Area.



CHAPTER B - PART II

REPRODUCTION DEPARTMENT

B-1. General. The work of this office consisted of the following:

(a) The arrangement and charge of drawing and specification numbering systems and the filing of the drawings and specifications for all departments.

(b) Maintaining adequate blue printing and nimeographing departments.

(c) Making recommendations for types of foundations for various structures,

(d) Handling many of the matters pertaining to personnel difficulties after their employment.

(c) Maintaining janitor service.

(f) Acting as safety engineer.

(g) Reproduction of working drawing tracings by the Photact process.

B-2. Public Works Office. In order to anticipate the time when the work of the Architect-Engineers would be assumed by the Public Works Office and to enable the duties to be transferred without too much difficulty, the Officer in Charge retained Mr. R. A. Kotasek to take charge of the Public Works records. The work of issuing and indexing drawing and specification. numbers gradually was transferred to the Public Works Office, also all tracings and engineering equipment were placed under the custody of the Public Works office.

B-3. Tracing Reproductions. By means of the Photact process, linen tracings of approximately 3800 drawings were prepared and turned over to the Public Works office to be filed with the Bureau of Yards and Docks. Photact tracings by the reflex method were made of hard copy record drawings, eliminating the necessity for many thousand man hours of work which would have been required if these drawings were traced in the usual way.

B-4. Foundation Recommendations. Approximately 500 soil borings were made during this period. In order to expedite the work, borings were examined at the site.

CHAPTER C - PART II

AUDITING DEPARTMENT

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C-1: The Audit Office combined three functions, namely: Accounting and Auditing, Time and Payroll, and Purchasing. The combination of these duties has proven very satisfactory for a contract of moderate size.

C-2. Accounting and Audit. All accounts and records, both general and cost were established and maintained in accordance with the procedure as outlined in "Manual for Accounting, Auditing, and Control", published by the Bureau of Yards and Docks of the Navy Department. The records and accounts for the Employees' War Bond Payroll deductions also were maintained by this office, independently of the General Books.

A detailed and comprehensive cost record was maintained. Each project was charged daily with the time as recorded on the daily time sheet. The weekly payroll was supported by a summary of these charges. All invoices or other costs were distributed directly to the applicable Project or Account from the Disbursement Register, immediately on payment.

C-3. Time and Payroll. A daily register sheet was maintained, onto which each employee affixed his signature, opposite his typed badge number and typewritten name, the time that he started to work and on leaving, the employee initialed the time of departure and the projects to be charged with his time. Each department head was held responsible for the accuracy of both time and project charges. The Auditor also checked the presence of the employees. Leave slips were prepared for all absences and a proper charge made on the Employee's Leave Record.

Payrolls were prepared and paid by check and submitted to the Navy Auditor with the cancelled checks as evidence of payment.

C-4. Purchasing. In accordance with Bureau practice, written or verbal bids were requested on all materials, supplies or equipment that were required. The bids were tabulated and the lowest bidder awarded the sale and notified by a purchase order bearing complete shipping and billing instructions. All invoices were in quadruplicate and were paid immediately after complete verification as to quantity, extension and accuracy of the invoices. All items were verified as received by a Receiving and Inspection report signed by the receiving clerk and a Navy Inspector.

C-5. Detailed reports of financial and cost data may be obtained from the Audit Completion Reports for the Contracts. These reports were prepared in accordance with the Navy Manual and are apart of the permanent records of the contracts.

-885-

Marine Barracks New River, N. C. January 1942 View of Regimental Area No. 1 Taken from Elevated Water Tower

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CHAPTER D - PART II

SITE PLANNING

D-1 Introduction. Site planning generally followed the principles outlined in Volume I. The chief innovation was the use of Montford Point type tile and stucco platoon barracks in several areas and the later combination of platoon type barracks and wash rooms into a one-story H-type building. This type of troop housing requires a somewhat different site arrangement from that adopted for the Division Training Area.

D-2 Montford Point Area.

D-2,01. Camps 2, 2A, and 3 were laid out for this area, together with school buildings, gun sheds, infirmary, administration building, theater, hostess house and the new brig. Camp knox was rehabilitated. The entire area including Camp No, 1 now provides for the housing of approximately 8100 troops.

D-2.02. Swimming Pool. A swimming pool was located in the eastern corner of the Parade Ground.

D-3. Women's Reserve Area. Site selected for this activity immediately adjoins the Camp Troops Area and required only nominal extensions of water, sewerage, steam and other utilities. This group as designed provides for housing of 2000 enlisted Women Reserves and 208 Women Reserve Officers.

D-4. Division Training Area.

D-4.01. School Buildings. Twenty-six school buildings were located in Regimental Areas 3, 4, and 5. By direction, the previously observed minimum building clearance of 60 feet was disregarded and tile and stucco construction adopted.

D-4.02. Mark I Gunnery Trainer Building was located adjoining the existing Waller Gunnery Trainer building.

D-4.03. Artillery Park. An artillery park 600ft. x 400 ft. was located on an extension to the Service Road south of "0" Street.

D-4.04. Post Exchange and Service Club Storehouses, were located at the rear of all service clubs and post exchanges.

D-4.05. Swimming Pools. Swimming pools were located in Regimental Areas 2 and 5.

D-4.06. Bus Terminal. This building was located centrally on a site between "F" and "G" Streets near the Service Road. It is designed to accommodate eight normal size and two trailer type buses.

-886-



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D-4.07. Red Cross Building is located near the intersection of Service Road and "B" Street.

D-4.08. Grade and High School. A new school providing accommodations for 600 pupils was located on the south side of Paradise Point road west of Holcomb Boulevard.

D-5 Supply and Industrial Area.

D-5.01. Labor Camp. Housing for 1,000 Negro troops was located on the southeast side of Michael Road between Birch and Cedar Streets.

D-5.02. Public Works Office. This building provides office space for Public Works Officer, general contractors and architect-engineers. It is located in the east corner of the Industrial Area and a cafeteria is located nearby.

D-5.03. Warehouses. Two additional large warehouses were located in this area.

D-5.04. Miscellaneous Buildings. Paint and oil storage, telephone and communications, lumber drying kiln, reclamation and other buildings were added to this area.

D-6. Rifle Range. A camp providing housing for 1,000 colored troops is located about 2,000 feet south of the existing ranges.

D-7. Barrage Balloon Area. A B. O. Q. building was located in this area.

D-8. Residential Area. Quarters for 180 Negro messmen were provided near the Officers' Mess. also an open swimming pool was located between the Officers' Mess and New River. A Radar area was laid out near Wallace Creck.

D-9. Naval Hospital Area. The new garage was located in this area.

D-10. Beach Area. Signal School facilities provided housing, mess and training facilities for 750 troops. It is located in the beach area between the dunes and Intracoastal Waterway, opposite the Mock-up ship. Gun emplacements for training purposes were laid out along the dunes.

D-11. Lighter-than-Air Facilities. A layout with two mooring circles and other facilities was made for a site near the present landing field. Construction has been deferred.

-887-

CHAPTER E PART II ARCHITECTURAL DEPARTMENT

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TABLE OF CONTENTS

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E-2		Divi
E-3		Cam
E-4		Indi
E-5	- X	Nava
		Res:
E-7		Rif
		Bar
11-0		
E-9		Par
E-10		Lan
E-11		Ten
E-12		Ten
E-13		Mon
THE		7170 **
L-14	× .	Pet
		Tan
E-16		Mid
E-17		Wom
E-18		Bea
E-19		Mis
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E-21		Sch
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- 888 -

Title

roduction vision Training Area ip Activities lustrial and Supply Area ral Hospital Area idential Area le Range Area rrage Balloon & Amphibian Base Area achute Training Area nding Field & Seaplane Base nt Camp No. 1 nt Camp No. 2 ntford Point Area (Including Camp Knox) terfield Point Camp nk Battalion Camp way Park Residential Area nen's Reserve Area ach Area scellaneous nedule of Buildings by Areas nedule of Buildings by Types

E-1. Introduction

The Architectural Department under the direction of Joseph D. Rivers, Chief Architect, and Vernon W. Harrison, Assistant Chief Architect, designed all the buildings erected at Camp Lejeune, New River, North Carolina, since october 1, 1942.

The rapid expansion of the Marine Corps, leading to the formation of the Women's Reserve, the admittance of Negroes into the Corps, and the establishment of a Dog Training Detachment, presented varied and unusual problems. In diversity and magnitude, the dosign problems encountered were the equivalent of providing the multitude of advantages usually found in a city. Facilities were provided for housing, feeding, clothing, training, instructing, entertaining, disciplining, hospitalization and administration; for the reception of visitors; for decontamination of clothing and bedding; for incineration of wastes; for kiln-drying lumber; for photographic and transportation services.

Development of designs was influenced by a number of factors. In ceneral, the military nature of the project, the necessity for general economy, the limitations on the use of strategic materials, and the shortage of craftsmen, dictated a simplicity and severity of treatment. Allotment . and distribution of space were determined with the aid of directives from the Officer in Charge, thru conferences with prospective users, from standard drawings obtained from various governmental agencies, or from designs of similar structures erected elsewhere. Style precedents established by buildings previously built influenced exterior designs. The use of the modified carly American Colonial style of former work in the Regimental Areas was continued in the buildings for the Women's Reserve; but, since they were to be used by women, buildings in this area were given a more domestic character. New construction in the Supply and Industrial Area followed the quasi-functional style of existing structures nearby. At Montford Point, the type of design developed owes its character largely to the materials and skills which were available for the project; the scarcity of wood for framing, sheathing and siding led to the selection of hollow tile for walls; the walls were stuccood to improve weathering qualities; all openings were trimmed with exposed brickwork to simplify the application of stucco - forming of exterior angles was reduced to a minimum.

Members of the department exhibited ingenuity in the origination of substitutes for strategic materials and in the promotion of economics. Asbestos downspouts, wood gutters, and tile gravel stops were used instead of metal; rigid asbestos board was used as a substitute for marble, plaster, plywood and presdwood; fiber tile ceilings replaced plaster; "perforated" brick walls obviated metal grilles for ventilation; curtains instead of doors for bedroom closets saved millwork, hardware, and labor; brick cornices also reduced the cost of millwork, labor, and maintenance; bathroom floors were sloped to depressed shower stalls, thereby eliminating floor drains; concrete floors on the ground were poured integrally with foundations, enabling the builders to use a roadway paving machine for pouring such floor slabs.

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Descriptions of individual buildings, including floor areas, cubage, listings of Structural Systems and construction materials, finishes, etc., are given in the Sections to follow. In the data listed, the cubic contents of all buildings are figured from average finish grade; porches are included at half their actual cubic contents.

Additional utility buildings are covered under the reports of the various departments.

E-2. Division Training Area.

E-2.01 Location. The area is located on the east bank of New River near the center of the reservation. The following number and types of buildings have been designed in this area since October 1, 1942:

10 Post Exchange and Service Club Storehouses (E-2.02) 23 School Buildings - 6 with 2 rooms & 20 with 3 rooms (E-2.03)

1 Bus Torminal

2 Swimming Pools

Alterations to Mess Hall No. 107

Alterations to Battalion Warehouse No. 133

E-2.02 Post Exchange and Service Club Storehouses. One-story rectangular building

Ground Area Covered Floor Area Cubic Contents Clear Ceiling Height

General Construction. Wood roof on 8: brick bearing walls. Concrete floor stab on ground.

Foundations: Concrete foundation walls and footings. Finishes: Asbestos shingle roof, unfinished brick walls, cement floors. Design Loads: Roof-Live load 20 lbs. per sq. ft. Wind - 30 lbs. per square foot. E-2.03 School Buildings. One-story rectangular shaped buildings

Ground Area Covered Fleer Area Cubic Contents

Design data as follows:

(a) 3-Class room - type

(b) 2-Class room - type - 1 @

General Construction:

Wood roof frame, 8" brick bearing walls, or 8" hollow tile, stuccood, Concrete floors.

ses (E-2.02) with (E-2.03) (E-2.04) (E-2.05) (E-2.06) 133 (E-2.07)

> 13' x 17' 156 sq. ft. 1837 cu. ft. 8'#- 0"

121: x 31: 3053 sq. ft. 42,235 cu. ft.

1014 sq. ft. o.ch room 1014 sq. ft. 1 @ 2028 sq. ft.

Marine Barracks New River, N. ^G. January 1942 View of Regimental Area No.1 Taken from Elevated Water Tower

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Foundations:

Concrete foundation walls & footings.

Finishes:

Concrete floors, wall exposed brick or hollow tile, ceiling fiber board, wood such and doors, asbestos shingle roof.

Design Loads:

Roof-Live load 20 lbs. per sq: ft. Wind'- 30 lbs, per sq. ft.

E-2.04 Bus Terminal. One-story rectangular building with Bay Windows at 2 sides

Ground Area Covered Floor Area Cubic Contents (including 1/2 volume of loading spaces) Clear Ceiling Height

Design data as follows:

1.08 sq. ft. Railway Ticket Office Entry Waiting Room Baggage & Ticket Office Office Drivers' Room Men's Toilets (2) Women's Toilets (2) Private Toilet Phone Booth Gear Room Landing Platforms 2 Men's Toilets: - 3 Water Closets, 3 Lavatories, 2 Urinals 2 Women's Toilets: 3 Water Closets, 3 Lavatories Private Toilet: 1 Water Closet, 1 Lavatory Gear Room: 1 Slop Sink Waiting Room: 15 Wood Benches, 2 Drinking Fountains

General Construction:

Concrete slab roof on 12 1/2" brick bearing walls. Concrete floor slab on fill. Concrete slab exterior loading platforms on fill.

Foundations

Concrete foundation walls and footings. Soil pressure of 2,000 lbs. per sq. ft.

85' x 78' 3,213 sq. ft. 63,766 cu. ft. 11' - 0"

sq.	ft.
sq.	ft.
	sq. sq. sq. sq. sq. sq. sq. sq. sq. sq.

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Marine Barracks New River , N. C. January 1942 View of Regimental Area Taken from Elevated Water Tower



Finishes:

Concrete roof, unfinished brick walls with cement plaster wainscots. in Toilet Rooms only, cement floors.

Design Loads :

Roof-live load 20% per square foot Wind - 30% per square foot

E-2.05 Swimming Pool. Rectangular shaped building, generally one story with filter room below main floor at one end, and concrete diving platform over locker rooms.

Ground Area Covered Main Floor Area Filter Room Floor Area Total Floor Area Cubic Contents

Design data as follows:

Main Floor:

Pool 150'-1" x 60'-0" x 11'-8" at deepest part Pool Deck Office Locker Rooms (2) 96 Lockers each Toilet Rooms (2) Shower Rooms (2) Foot Baths (2) Diving Platforms (3) ' Circulation Platform (1) Entrance Deck

Filter Room Floor:

Filter Room Chlorinator Room Ammoniator Room Storago Area Transformer & Electrical Service Area

Toilets:

Toilets: 4 Water Closets, 3 Urinals, 3 Lavatories, each Showers: 6 Shower Heads each 2 Service Sinks

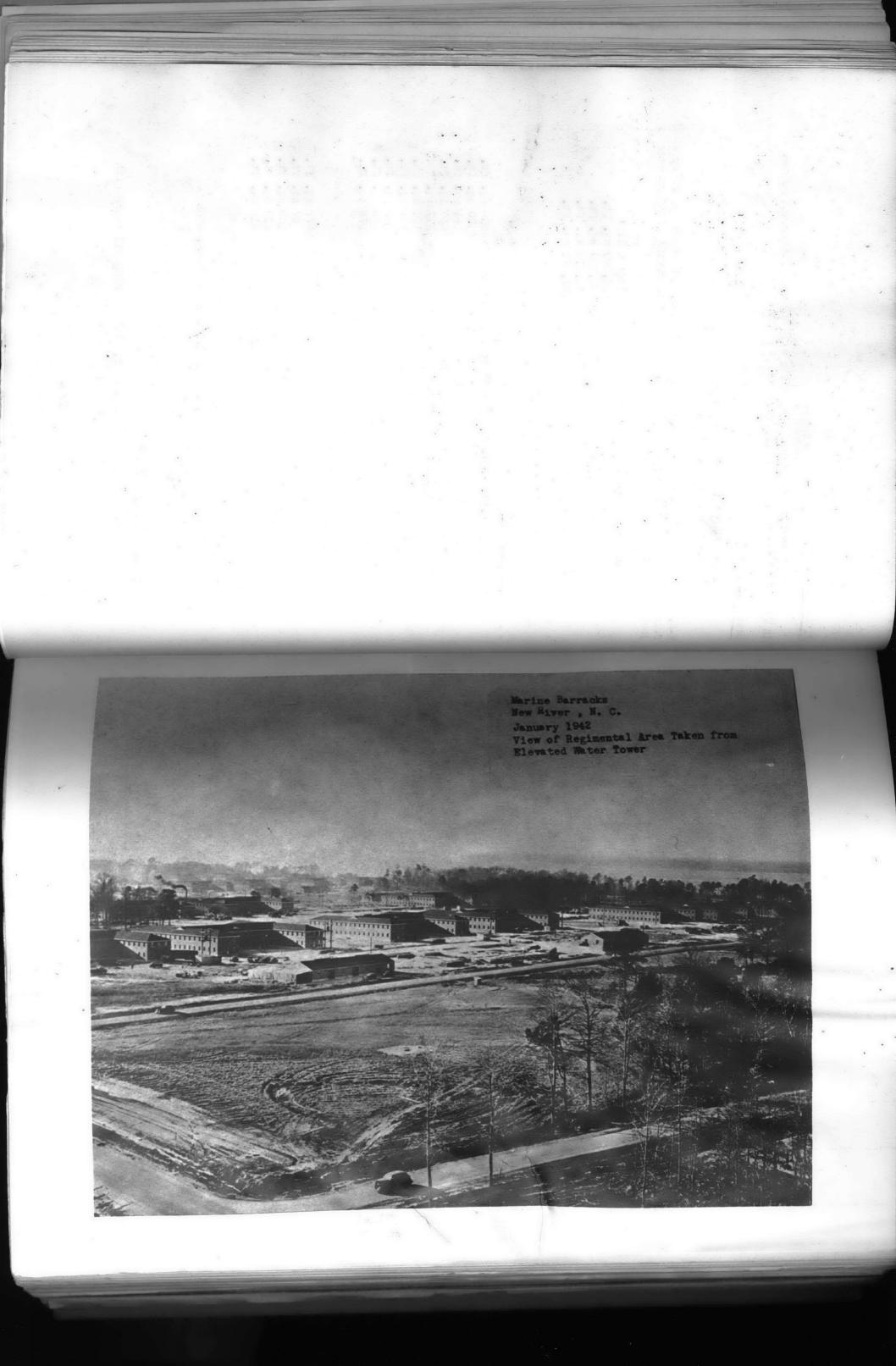
General Construction:

Reinforced concrete diagrid roof, 16" bearing pilasters with

106' x 215' 16,090 sq. ft. 3,420 sq. ft. · 19,510 sq. ft. 461,971 cu. ft.

S	005	sq.	ft.
5	5320	sq.	ft.
	181	sq.	ft.
	830	sq.	ft.
	312	sq.	ft.
•	192	sq.	ft.
	104	sq.	ft.
	726	sq.	ft.
	660	sq.	ft.
	576	sq.	ft.

sq.	ft.
sq,	ft.
sq.	ft.
sq.	ft.
sq.	ft.
	sq. sq.



8" brick curtain walls between pilasters; floors, decks, pool, basement walls are concrete.

Foundations:

Reinforced concrete foundation walls and footings.

Soil pressure 1,500 per square foot

Finishes:

Floors, concrete non-slip finish around pool, in showers. Walls exposed brick or concrete. Ceilings, exposed concrete. Steel sash. Wood doors. Builtup roof over 2" rigid insulation; 2 corrugated glass skylights, each 15'-0"x 84'-0"

NOTE: Roof designed by American Diagrid Corporation for U. S. Navy, modified by Bureau of Yards and Docks.

E-2.06 Alterations to Mess Hall No. 107. A portion of the dining hall in this building was partitioned off to serve as a uniform shop for women, ; providing the following facilities:

Sales Room Suit & Coats Hanging Room Issue Room Assembly Room Fitting Room Storage Room Checking Office Hall & Corridor

Total Floor Area

Partitions were of wood studs, covered with fiber board on exposed sides.

E-2.07 Alterations to Battalion Warehouse 133. A standard Battalion Warehouse was altered to serve as an Alterations Shop for women, providing the following facilities:

Waiting Room Receiving Room Delivery Room Sewing & Work Room Repair & Storage Room Men's Toilet Room Women's Toilet Room Gear Closet Corridor

1473	sq.	ft.
1319	sq.	ft.
435	sq.	ft.
574	sq.	ft.
689	sq,	ft.
438	sq.	ft.
259	sq.	ft.
854	sq.	ft.

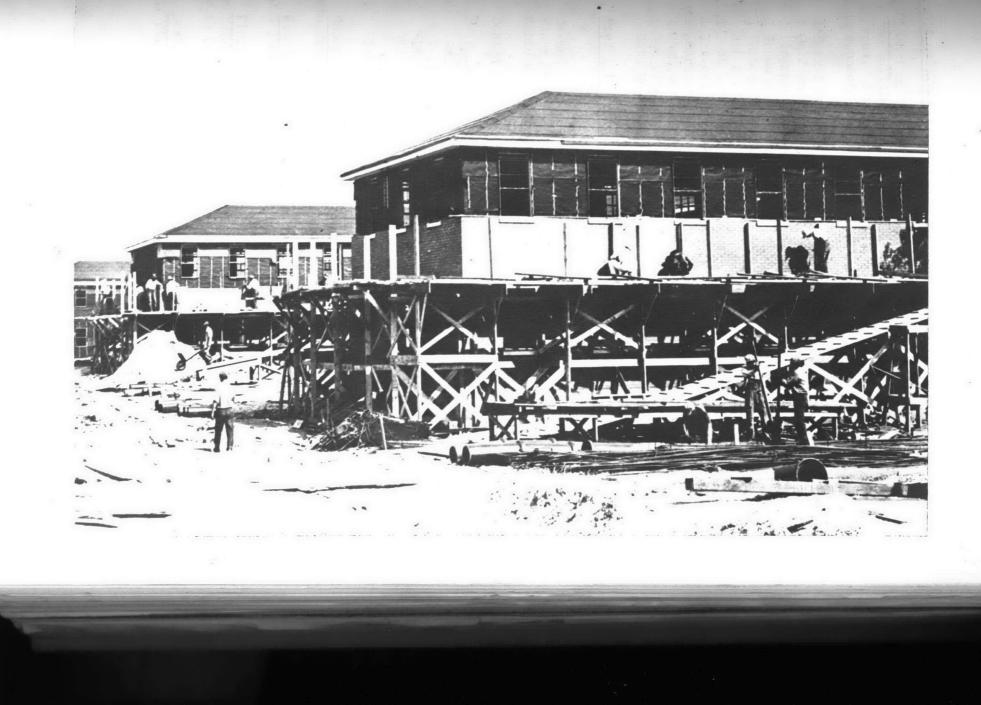
6041 sq. ft.

130	sq.	ft.
148	sq.	ft.
222	sq.	ft.
2427	sq.	ft.
222	sq.	ft.
149	sq.	ft.
125	sq.	ft.
52	sq.	ft.
31	sq.	ft.

Marine Barracks New River, N. C. January 1942 Regimental Area View taken of Barracks showing Typical Brick Veneer

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E-3. Camp Troops Activities:

E-3.01. Location. These activities extend over the entire reserva-tion. Most of the buildings are in an area which adjoin and is northwest of the Regimental Areas. Since October 1, 1942, the following buildings have been designed in connection with Camp activities:

> 1 Mark I Gunnery Trainer I Uniform Shop 1 Dispensary Warehouse 1 Grade and High School 1 Photographic Shop - Conversion No. 27 1 Post Exchange Storehouse 1 Hostess House Storehouse 1 American Red Cross Building 1 Chomical Storage Building, Water

Plant Gate House - Repairs and Additio

& Docks).

Ground Area Covored Floor Aroa Cubic Contents

Design Data as follows:

Lecture Hall Projection Booth Toilot Light Trap Closets (3) .

Toilet: 1 Water Closet, 1 Urinal, 1 Lavatory

General Construction: Principally wood frame with part brick. Concrete floor slab on fill.

Foundations: Concrete foundation walls & Footings. Soil pressure - 2,000 lbs. per sq. ft.

Finishes: Shingle roof, side walls & coiling wood, painted, brick walls unfinished. Asphalt tile floor in Lecture Hall, Granolithic concrete floor in Projection Booth.

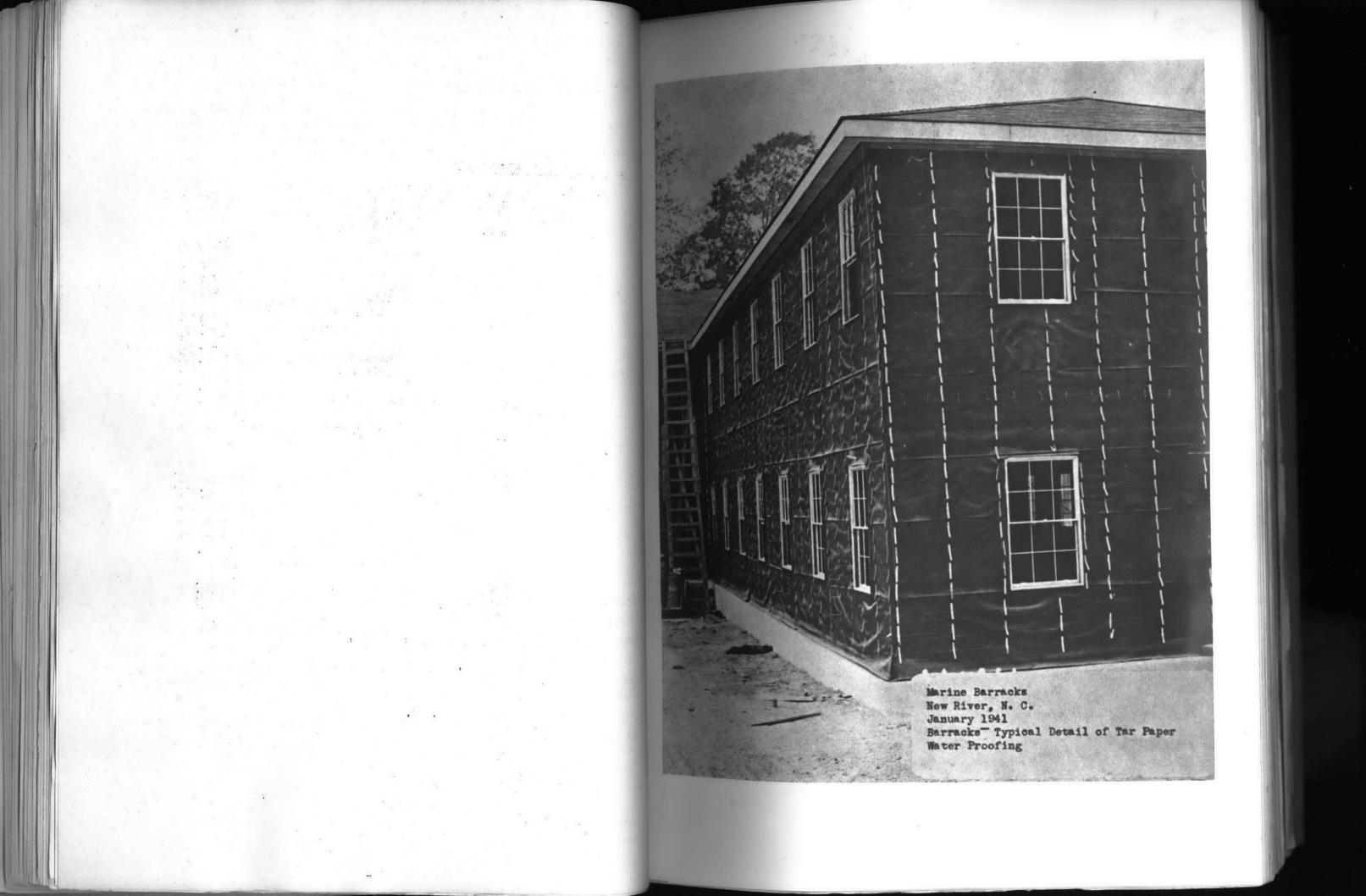
Design Loads: Roof - live load 20 lbs. per sq. ft. Wind -30 lbs. por sq. ft.

- 894 -

		(E-3.02) (E-3.03)
		(E-3.04) (E-3.05)
of	Marchouse	
		(E-3.06) (E-3.07) (E-3.08)
		(E-3.09)
r	Treatment	(
ons	5	(E-3.10) (E-3.11)

E-3.02. Mark I Trainer Building. (Plans by the Bureau of Yards

- 32! x 59! 1587 sq. ft. 41,758 sq. ft.
- 1260 sq. ft. 158 sq. ft. 34 sq. ft. 25 sq. ft. 49 sq. ft.



E-3.03. Uniform Shop. One-story rectangular building.

Ground Area Covered Floor Area Cubic Contents ~

Design Data as follows:

Work Room Uniform Sales Room General Sales Room Storage Rooms (2) Offices (2) Men's Toilet Rooms (2) Women's Toilet Rooms (2) Gear Rooms (2) Drossing Rooms (4) Vestibule & Hall 4 Toilets: 5 Mater Closets, 4 Lavatories 2 Gear Rooms: 2 Slop Sinks

General Construction:

Wood roof on 12 1/2" brick bearing wells. Concrete floor slab on ground.

Foundations:

Concrete foundation walls & Footings. Soil pressure - 2,000# per square foot.

Finishes:

Asbestos shingle roof, unfinished brick walls except Toilet rooms where cement plaster is used.

Design Loads:

Roof-live load 201 per square foot. Wind - 301 per square foot.

E-3.04. Post Dispensary Warehouse. One story, rectangular building.

Ground Area Coverea Floor irea Cubic Contents Clear Ceiling Height

General Construction: Wood roof trusses on 8" brick bearing walls. Concrete floor slab on ground.

2000 lbs Foundations: Concrete foundation walls and footings. Soil pressure

62' x 192' 9,360 sq. ft. 171,880 cu. ft. 1,581 sq. ft. 1,139 sq. ft. 2,679 sq. ft. 2,643 sq. ft. 397 sq. ft. 122 sq. ft. 95 sq. ft. 31 sq. ft. 65 sq. ft. 272 sq. ft.

34' x 111' 3,441 sq. ft. 52,345 cu. ft. 91 - 0"

Finishes:

Asbestos shingle roof, unfinished brick walls, coment floors, wood windows.

Design Loads:

Roof-Live load 20 lbs. por sq. ft. Wind - 30 lbs. por sq. ft.

E-3.05. Grade and High School Building. One story rectangular shaped building with contral projections front and rear.

Ground Aroa Covered Floor Area Cubic Contents

Design data as follows:

Class Rooms (First through Eleventh Grados) Science and Laboratory Room Home Beonomics Room Kindergarton Manual Training Room Boy's Toilet Rooms (2) Girl's Toilet Rooms (2) Faculty Toilet Rooms (2) Kindergarten Toilet Room Gear Rooms Principal's Offices Nurse's Office Teachers ! Room Book Room Store Room Auditorium (Seating capacity 650) Stage Drossing Rooms Boiler Room Corridors

Toilets:

Boys Toilets: 12 water closets, 10 urinals, 10 lavatories Girls Toilets: 18 water closets, 10 lavatories Faculty Toilets: 2 water closets, 2 lavatories Kindergarten Toilet: 1 water closed, 1 lavatory Gear: 2 service sinks

General Construction:

Nood roof frame, 8" hollow tile bearing walls, 4" brick veneer,

3971	x	119'
28,383	sq.	ît.
673,112	cu.	ft.

8,488	sq.	ft.
768	sq.	ft.
760	sq.	ft.
840	sq.	ft.
1,357	sq.	ft.
582	sq.	ft.
668	sq.	ft.
52	sq.	ft.
34	sq.	ft.
51	sq.	ft.
340	sq.	ft.
153	sq.	ft.
282	sq.	ſt.
	sq.	
196	sq.	ft.
4,349	sq.	ft.
752	sq.	ft.
459	sq.	ft.
726	sq.	ft.
5,918	sq.	ft.

concrete floors laid over hollow tile. Corridor ceilings reinforced concrete slab.

Foundations:

Concrete foundation walls and footings. Soil pressure 1,000 lbs. per square foot.

Finishos:

Floors: Asphalt tile in Auditorium, corridors, principal's and Nurse's offices and teacher's rooms; Wood in dressing rooms and stage; Tile in toilets; concrete elsewhere; Class rooms, auditorium and offices, walls gypsun plaster; Koene's cement in toilets and goar rooms; exposed masonry in manual training, store & boiler room. Portland cement wainscot in corridors, class rooms and principals offices.

Ceilings: in corridors, acoustic. tile; closets, plaster; boys' and girls' toilets and gear rooms, asbestos board; small toilets and alcove, Keene's coment; all others, 1/2" fiber board. Roof is asbestos shingles, sash are wood.

Design Loads:

.

Roof-Live load 20 lbs. per square foot. Wind - 30 lbs. per square foot.

E-3.06. Photographic Shop - Conversion of Marchouse No. 27. The interior of Building No. 27 in the Division Training area has been altered to serve as a Photographic Shop providing the following facilities:

> Studio Developing Room Printing Room Enlarging Room Dog Tag Office Finishing Room Chemical Room Film Drying Room Lobby & Corridor

Partitions are of hollow clay tile; coilings of asbestos board; with 2" of mineral wool insulation over floors, existing concrete; doors, wood. Tall finishes, exposed masonry, painted.

E-3.07. Post Exchange Storehouse. This building is the same as the Post Exchange and Service Club Storohouses; for complete data, see Section E-2.02.

E-3.08. Hostess House Storehouse. This building is the same as the Post Exchange and Sorvice Club Storehouses; for complete data, see Section E-2.02.

117	sq.	ft.
720	sq.	ft.
220	sq.	ft.
620	sq.	ft.
326	sq.	ft.
173	sq.	ft.
500	sq.	ft.
119	sq.	ft.
220	sq.	ft.
74	sq.	ft.
445	sq.	ft.

E-3.09. American Red Cross Building: One story rectangular building with a projecting wing at each side.

Ground Area Covered Floor Area Cubic Contents

Design data as follows:

Reception Room Lecture Room General Office Offices (3) Work Rooms (2) Storage Rooms (2) Women's Toilet Mon's Toilet Front Terrace

Women's Toilet: 3 water closets, 2 lavatories, 1 slop sink Men's Toilet: 1 water closet, 1 lavatory

General Construction:

Wood roof frame on 12 1/2" tile & brick veneer bearing walls. Concrete floor slab on fill,

Foundations:

and the second
Concrete foundation walls & footings Soil pressure 2,000 per square foot

Finishes:

Asbestos shingle roof; asbestos board ceilings in toilet rooms, fiberboard ceilings elsewhers; cement plaster walls in toilet rooms & gypsum plastor walls clsewhere; cement floors thruout; wood sash.

Design Loads:

Roof -live load 20 per square foot Wind - 30# per square foot

building.

E-3.10. Chemical Storage Building. One story, rectangular - shaped

Ground Area Covered Floor Area Cubic Contents

General Construction:

Wood frame roof on 8" brick bearing walls. Concrete floor slab on ground.

66' x 105' 3,221 sq. ft. 59,557 cu. ft.

440	sq.	ft.
741	sq.	ft.
389	sq.	ft.
482	sq.	ft.
790	sq.	ft.
103	sq.	ft,
143	sq.	ft.
54	sq.	ft,
195	sq.	ft.

221 x 301 594 sq. ft. 7,722 cu, ft.

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and exection which were a set 1.4.

Foundations:

Concrete foundation walls.

Finishes:

Asbestos shingle roof; underside of roof sheathing is ceiling; unfinished brick walls; cement floor.

Design. Loads:

Roof - Live load 20# per square foot Wind - 30 per square foot

E-3.11. Gate House - Repairs and Addition. This project involved repairs to the existing Gate House, made necessary by the explosion of a boiler; and an addition consisting of a one-story, rectangular-shaped boiler room.

Ground Area Covered Floor Area Cubic Contents of Stack Cubic Contents of Building Total Cubic Contents

General Construction:

Wood frame roof on 8" brick bearing walls. Concrete floor on ground

Foundations:

Concrete foundation walls and footings Soil pressure 2000 lbs. per sq. ft.

Finishes:

Asbestos shingle roof; asbestos board ceiling; unfinished brick walls, coment floor,

Design Loads:

Roof - Live load 20 lbs. per square foot Wind - 30 lbs. per square foot

E-4. Industrial & Supply Area:

E-4.01. Location. Situated east of the Division Training Area. Since October 1, 1942, the following buildings have been designed in this area:

> 1 Warehouse No. 1108 1 Marchouse No. 1606

13' x 21' 240 sq. ft. 486 cu. ft. 3,243 cu. ft. 3,729 cu. ft.

(E-4.02) (E-4.03)

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1 Junber Drying Kiln 2 Paint & Oil Storage 1 Camp Communications Marchouse & Platform 1 Camp Communications Storage Shed 1 Reclamation Storage Building 1 Reclamation Decontamination Buil 4 Labor Battalion Barracks 1 Labor Battalion Mess Hall 1 Labor Battalion Administration B 1 Labor Battalion Post Exchange 1 Public Works Office Building 1 Cafeteria Building 3 Truck Loading Sheds Extension to Laundry Additional Toilets - Warehouses Nos: 1101, 1201, 1402; 1501 Office & Storage Space (addition Contral Heating Plant

E-4.02. Marchouse - Building No. 1108. Part two-story rectangular shaped building with loading platform on both long sides.

> Ground Area Covered Floor Area - 1st & 2nd Floors Cubic Contents

Design data as follows:

First Floor:

Loading Platforms Warerooms Valuable Small Stores Rooms Supply Room Mimeo. Room Toilets Lounge & Corridor

Second Floor:

Offices 4393 sq. ft. Toilet 30 sq. ft. Corridor & Stairway 690 sq. ft. Officers! Toilet: 2 water closets, 1 urinal, 2 lavatorios Enlisted Men's Toilet: 2 showers, 2 water closets, 1 urinal, 2 lavatories Colored Mon's Toilet: 2 showers, 2 water closets, 1 urinal, 2 lavatories Momen's Toilot: 4 water closets, 4 lavatories

	(E-4.04) (E-4.05)
Cable .	(E-4.06)
1	(E-4.07)
lding	(E-4.08) (E-4.09) (E-4.10)
Bldg.	(E-4.11) (E-4.12) (E-4.13)
	(E-4.14) (E-4.15) (E-4.16) (E-4.17)
1	(E-4.18)
nal) .	(E-4.19)

200' x 367' 69,024 sq. ft. 1,479,750 cu.ft.

7,200	sq.	ît.
58,400	sq.	ft.
3,480	sq.	ft.
300	sq.	ft.
210	sq.	ft.
731	sq.	ft.
389	sq.	ft.

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Concral Construction:

Monitor type building with concrete columns and roof, 12 1/2" brick walls, stuccoed outside; condrete floor slab & loading platforms.

Foundation:

Concrete foundation walls on piles with concrete caps. Seil pressure 2000% per square for; pile capacitics 15 & 20' tons.

Finishes:

Conont floors, unfinished brick walls & concrete ceiling, builtup roof over rigid insulation.

Design Loads:

Live load on loading platf orn 250% per square foot. Live load on 1st floor 600% per square foot. Wind - 30% por square foot.

E-1.03. Marchouse - Building No. 1606. One story rectangular shaued building with loading platform on both long sides.

Ground Area Covored Floor Area Cubic Contents

Design data as follows:

Loading Platforms Harerooms Offico Toilots Corridor

Officers' Toilet: 1 water closet, 1 urinal, 1 lavatory Enlisted Men's Toilet: 2 water closets, 2 urinals, 2 lavatorios Men's Toilot: 2 water closets, 2 urinals, 2 lavatories Momon's Toilet: 1 water closet, 1 lavatory

General Construction:

Monitor type building with concrete columns and roof, 12 1/2" brick bearing walls, stuccood outside; concrete floor slab & loading platforms.

Foundation:

. Concrete foundation walls on piles with concrete caps. Soil pressure 2000 lbs. per square foot; pile capacities 16 and 20 tons.

200' x 364' 63,724 sq. ft. 1,443,660 cu. ft.

> 7200 sq. ft. 62,260 sq. ft. 684 sq. it. 524 sq. ft. 100 sq. ft.

Marine Barracks New River .N. C. February 1942 First Concrete Warehouse Industrial Area

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Finishes:

Cement floor, unfinished brick walls & ceiling. Built-up roof over rigid insulation.

Design Loads:

Live Load on leading platform 250 per square foot. Live load on floor 600# per square foot. Wind - 30# per square foot.

E-4.04. Lumber Drying Kiln: Two story rectangular shaped building. with small one story wing.

Ground Area Covered	44
First Floor Area	1,298
Second Floor Area	1,178
Total Floor Area	2,476
Cubic Contents	33,469
Design data as follows:	

First Floor:	
Kiln Room	1,178
Control Room	120
Second Floor:	
Machine Room	1,178

General Construction:

Wood framed roof, 12" brick bearing walls, stuccoed. First floor concrete. Second floor, wood, supported on bottom chord of trusses.

Foundations:

Concrete foundation walls and footings. Soil pressure 2,000 lbs. per square foot.

Finishes:

First floor concrete. Second floor 1-5/8" plank. Walls, exposed brick. First floor ceiling, asbestos board. Second floor ceiling, exposed roof plank. Built-up roof. Frieze below roof, asbestos board betewwn wood louvers, wood sash and metal doors.

Dosign Loads:

Roof-Live load 20 lbs. per square foot. Wind-30 lbs. per square foot.

E-4.05 Faint and Oil Storage Houses. One story restangular shaped build ings.

> Ground Area Covered Floor Area Cubic Contents

28' x 157' 4.136 sq. ft. 59.709 cu. ft.

1,178 sq. ft.

sq. ft. sq. ft.

1 x 401 sq. ft. sq. ft. sq. ft. cu. ft.

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Clear Coiling Height

Dosign data as follows.

storage rooms (3)

Gunoral Construction:

Tood roof frame, 8" concrete block bearing walls, stuccood. Concrete floor slab on fill.

Foundations:

Concrete foundation walls and fostings. Reinforced concieto mat under whole building.

Finishes:

Cement floor, wood windows & doors, asbestos shingle roof.

Design Loads:

Roof-live load 20 lbs. per square foot. Wind-30 lbs. per sq. ft.

E-4.06. Camp Communications Warehouse. & Cable Platform. One story L-shaped building.

Ground Area Covered Floor Area Cubic Contents Clear Ceiling Height

Design data as follows:

Heavy Storage Signal Storage Corridor Store Keepers Office Telophone Rapair Instruction Duty N.C.O. Head

General Construction:

Wood framed roof. Concrete block bearing walls, stuccood. Reinforced concrete floor slab.

Foundations:

Reinforced concrete mut under the whole building.

91 - 11"

4,118 sq. ft.

89' x 82' 4,163 sq. ft. 62,350 cu. ft. 91 - 0" 5

1709 sq. ft. 1037 sq. ft. 143 sq. ft. 182 sq. it. 450 sq. ft. 429 sq. ft. 103 sq. ft. 162 sq. ft.

Finishes:

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Concrete floors. Storage rooms walls, exposed block. All other walls, gypsun plastered; cement plaster in head. Storage rooms open to roof. Head coiling, asbestos board; all others, fiber board. Wood sash & doors. Asbestos shingle roof.

Design Loads :

Roof Live load 20 lbs por sq. ft. Wind Load - 30 lbs. per square foot.

Communications Cable Platform: Rectangular shaped platform

Ground Area Covered Floor Area Cubic Contents

Design data as follows:

Cable Storage 2249 sq. ft.

General Construction:

Concrete walls. Roinforced concrete slab on fill

Foundations :

Concrete walls and footings

Finishos:

Concrete floor. Wood bumper strips.

E-4.07. Camp Communications Storage Shed. One story rectangular shaped building, open one side.

Ground Aroa Covered Floor area Cubic Contents Clear Ceiling Height

Design data as follows:

Storage Spaces (3)

Gonoral Construction:

Wood roof frame. Concrete block bearing walls. Wood girder and pipe columns, open side. Reinforced concrete floor.

331 x 681 2249 sq. ft. 7575 cu. ft.

31' x 157' 4200 sq. ft. 76,846 cu. ft. 131 - 10"

4162 sq. ft.

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Foundations:

Reinforced concrete mat under the whole building.

Finishes:

Floors concrete. Halls exposed concrete block, Good sash. Asbestos shingle roof.

Design Loads:

Roof-Live load. 20 lbs. per sq. ft. Wind load - 30 lbs. per sq. ft.

E-4,08. Reclamation Storage Building. One story rectangular shaped building.

Ground Area Covered Floor Area Cubic Contents Clear Ceiling Height

Design data as follows:

Storage rooms (3)

General Construction:

Wood roof frame,8'concrete block bearing walls, stuccood. Concrete floor slab on fill.

Foundations:

Concrete foundation walls & footings Soil pressure 2,000 lbs. per sq. ft.

Finishes:

Cement floor, wood windows & doors, asbestos shingle roof.

Design Loads:

Root - Live load 20 lbs, per sq. ft,

E-4.09 Reclamation Decontamination Building. One story roctangular shape.

Ground Area Covered Floor Area Cubic Contents Clear Ceiling Height

28' x 157' 4,136 sq. ft. 59,709 cu. ft. 9' 1 11"

4,110 89. 1te

28' x 157' 4,136 sq. ft. 59,709 cu. ft. 91 - 11"

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Design duta as follows:

storage rooms (2) Two funigating tanks, wall separating sterile from unsterile room.

General Construction:

Dod roof frame, 8" concrete block bearing walls, stuccoed. Concrete floor slab on fill.

Foundations :

Concrete foundation walls & footings Soil pressure 1,000 lbs. per sq. ft.

Finishes:

Couont floor, wood windows & doors asbestos ghingle roof.

Design Leads:

Roof - Live load 20 lbs. per sq. ft. Wind - 30 lbs. per sq. ft.

E-4.10 Labor Battalion Barracks - One story "H" type.

4 Buildings

Ground Area Covered Floor Area Cubic Contents

Design data as follows:

Dormitories (2, with 116 bed spaces each) N.C.O's Rooms (4) Toilet Rooms (4) Lash Rooms (4) Shower Rooms (2) Drying Rooms (2) Scrub Deck Gear Rooms (2) Entrios & Corridors

Goneral Construction:

Wood roof on 8" tile bearing walls, with concrete pilasters, stuccoed on the outside. Concrete floor slab on ground.

Foundations:

Concrete foundation walls & footings. Soil pressure of 2000# per square foot.

4,118 sq. ft.

201' x 206' 14,162 sq. ft. 189,634 cu. ft.

9900	sq.	ft.
1120	sq.	ft.
512	sq.	ft.
558	sq.	ft.
441	sq.	ft.
226	sq.	ft.
447	sq.	ft.
105	sq.	ft.
583	sq.	ft.

Finishes:

Roll roofing; unfinished tile walls, with cement plaster in shower rooms only; no ceilings; except in showers & toilets.

Dosign Loads:

Roof-live load 20# per square foot find - 30 per square foot

E-4.11 Labor Battalion Mess Hall. Same as at Montford Point Camp No. 3. For complete Mata, see Section E-13.18.

E-4.12 Labor Battalion Administration Building. Same as at Rifle Range; for complete data, see Section E-7.06.

E-4.13 Labor Battalion Post Exchange. Same as at Rifle Range; for complete data, see Section E-7.07.

E-4.14 Public Works Office Building. This building was not designed by Carr and J. E. Greiner company.

E-4.15 Cafetoria. This building was not designed by Carr and J. E. Greiner Company ...

E-4.16 Truck Loading Sheds.

These structures, used to protect fuel trucks while they are being filled, consist of platforms 3'-0" x 12'-0", over which are roofs 10'-0" x 12:-0" (projected area). The platforms are of wood on concrete piers; the roofs are of asbestos shingles over wood framing, supported on 8" x 8" wood columns.

E-4.17 Laundry Extension. One story rectangular shaped extension to existing laundry building.

Ground Area Covered Floor Area Cubic Contents

Design data as follows:

Delivery space

General Construction:

Steel frame, trusses & purlins. Wood plank roof sheathing. 13" hollow tile walls stuccoed. Concrete floor.

- 907 -

79' x 73' 5048 sq. ft. 115,897 cu. ft.

5048 sq. ft.

Foundations:

Concrete foundation walls & footings Soil pressure 2000 lbs.per square foot.

Finishes:

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Floor concrete, walls hollow tile, exposed. Built-up roof. Steel sash & doors. 1" roof insulation. Wood monitor.

Design Loads:

Storage & loading platform 300 lbs per square foot All other floors 100 lbs. per square foot Roof Live load 20 lbs. per square .ind load - 30 lbs per square foot

E-4.18 Additional Toilet Facilities Warehouses, Nos. 1101, 1201,

Car second

1402, 1501. In the above buildings, additional toilet facilities were provided by constructing new rooms (of wood studs and plaster) adjacent to existing toilet rooms. The new rooms were each about 9'-0" x 9'-0". Each women's toilet provided a lavatory and a water closet; each men's toilet, two lavatorios, two water closets and two urinals.

E-4.19 Addition to Central Heating Plant. A three story rectangular addition to the Central Heating Plant to provide additional office & storage space.

> Ground Area Covered Ground Floor Area Mezzanine Floor Area Operating Floor Area Total Floor Area Cubic Contents

Design data as follows:

Ground Floor:

Storage Room

Mezzanine Floor:

Locker Rooms Toilet Room Corridor

Operating Floor:

Offices

Toilet Room: 1 shower, 1 water closet, 1 urinal, 1 lavatory

- 908 -

19' x 33' 495 sq. ft. 495 sq. ft. 500 sq. ft. 1,490 sq. ft. 16,368 cu. ft.

495 sq. ft.

302 sq. ft. 151 sq. ft. 38 sq. ft.

500 sq. ft.

General Construction:

Built up roof over wood sheathing on wood joists; 12 1/2" brick bearing Walls; operating floor wood; Mezzanine & Ground floors concrete slabs.

Foundations:

Concrete foundation walls & footings, on creosoted timber piles. Pile bearing capacity 20 tons each.

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Section 19

Built up roofing; fiberboard ceiling in offices, asbestos board ceiling Finishes: in toilets & locker rooms and cement ceiling in storage space; painted brick walls in offices, cement wainscot in toilet & locker rooms, and cement & unfinished brick walls in storage space; wood floor in offices, and cement in toilets, locker rooms and storage space.

Design Loads :

Roof-live load 20 lbs. por sq. ft. Operating floor - live load 50 lbs. per sq. ft. Mezzanine Floor - live load 50 lbs. per sq. ft.

E-5. . Naval Hospital Area.

E-5.01 Location. Situated on Hadnot Point, northwest of the Division Training Area. Since October 1, 1942, the following Buildings have been built in this area:

> 1 Storage Garage Alterations to Corpsmen's Barracks Acoustical Treatment (Auditorium, Recreation Area, Sculleries) Alterations to Lard 8

E-5.02 Naval Hospital Storage Garage. One story, rectangular-shaped building.

> Ground Area Covered Floor Area Concrete Ramp Cubic Contents

Gonoral Construction:

Wood frame roof on 12 1/2" brick bearing walls on three sides & brick piers at the front. Concrete slab floor on ground.

Foundations:

Concrete foundation walls & footings.

- 909 -

(E-5.02) (E-5.03) (E-5.04) (E-5.05)

46' x 96' 3.665 sq. ft. 478 sq. ft. 63,812 cu. ft.

Marine Barracks New River ,N. C. February 1942 Foundations _ U. S. Naval Hospital

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Finishes!

No coiling; unfinished brick walls; cement floor.

Dosign Loads:

Roof - Live load 20 lbs. per square foot. Wind - 30 lbs. per square foot.

E-5.03 Alterations to Corpsmen's Barracks.

A corpsmen's barracks was modified to provide facilities for WAVES. This work consisted of: replacement of scrub benches with laundry trays and addition of ironing boards on scrub deck; removal of urinals in toilets; installation of partitions around water closets and showers.

E-5.04 Acoustical Treatment

Acoustical treatment was provided for the following spaces: Auditorium (side and rear walls, ceiling over balcony); Recreation, Refreshment and ship store areas (ceilings only); Sculleries for central Mess Hall (ceilings only).

The material used for the treatment was type V (Federal Specifications), 3/4" thick for all areas except Sculleries and $1\frac{1}{4}$ " thick in Sculleries. In the Auditorium the perforated tiles were applied over fiber furring strips; in all other locations the tiles were cemented directly to existing plaster.

E-5.05 Altorations to Ward 8

Ward 8 of the Naval Hospital has been altered to provide the following additional facilities:

Room No 1		
		1
Room No. 2		40
Room No. 3		3
Room No. 4	2	3.
Room No. 5		90
Room No. 6		5
Bath and Toilct Rooms		-
		7(
Closets (5)		11
		+ -
Lobby and Corridor		1,53

Total floor area 5,197 sq. ft. Each Bath and Toilet Room: 1 shower, 1 water closet and 1 lavatory.

E-6 Residential Area.

E-6.01 Location: This area is situated northwest of the Division Training Area beyond Hadnot Point, the site of the Naval Hospital. Since October 1, 1942 the following buildings have been designed in this area;

180 sq. ft. 405 sq. ft. 398 sq. ft. 345 sq. ft. 969 sq. ft. 570 sq. ft. 700 sq. ft. 114 sq. ft. 516 sq. ft. and the second second and the second second second second

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3 Platoon Barracks for Messman

1 Washroom for Messmen

1 swimming Pool

2 Radar Tower Foundations

1 Radar Operating House Foundation

1 Heating Plant

E-6.02 Platoon Barracks for Messmon,

Same as at Montford Point Camp No. 2; for complete data see section E-13.02.

E-6.03 Wash Room for Messmon:

Same as at Montford Point Camp No. 2; for complete data, see Section E-13.03

E-6.04 Swimming Pool: Open air swimming pool and Wading pools, walks and addition to B. O. Q. Mess and Recreation . Building for dressing and filter rooms.

Ground Area Covered	242
Area of swimming Pool	4,211
Area of Wading Pool	700
Area of walks	8,433
Floor area of building	2,711
Cubic Contents of building	44, 3.77

Design of data as follows:

Swimming Pool 100' -1" x 42' -	1"
Wading Pool 30'-0" x 25'-0"	
Women's Locker Room	660
Men's Locker Room	660
Men's Shower Room	150
Filter Room	980
Ammoniator Room	54
Chlorinator Room	70

Toilet Facilities:

Women	's lock	er room	m,	5 water	r eloset	S	, 3	
			4	l foot water d	bath.		4 ur	
			0	snower	heads,	T	1.00)

General Constructions:

Pool reinforced concrete; walks concrete; roof of building wood frame, 8" hollow tile and 4" brick veneer bearing walls, Concrete floors, laid on hollow tile.

(E-6.02) (E-6.03) (E-6.04) (E-6.05) (E-6.06) (E-6.07)

2' x 150' sq. ft. sq. ft. sq. ft. sq. ft. cu. ft.

> sq. ft. sq. ft. sq. ft. sq. ft. sq. ft. sq. ft.

lavatories, 4 showers

rinals, 4 lavatories ot bath.

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Foundations:

Concrete foundation walls and footing. Soil pressure 2,000# per. sq.ft

Finishes:

Building floors, concrete. Walls exposed hollow tile. Shower room, cement plaster 7'-0" high. Ceilings asbestos board, except filter room. which is open to roof. Roof, clay tile. Wood sash and doors.

Design Loads:

Roof - live load 20 per square foot. Wind - 30 lbs. per square foot.

E-6.05 Radar Tower Foundation, Winch Foundation and Fuel Tank Hold Down Mat.

General Construction:

Radar Tower Foundation consists of reinforced concrete slab 24'0"x 24' 0" xl'S'thick, buried 4'-0" in ground with 4 pedestals for tower logs 2'-0" x 2'-0" x 3'-0" high.

Design Loads:

Wind velocity 90 mi. per hour. Soil pressure 1,500 lbs. per sq. ft. Winch foundation is concrete 3'-0" x 4'-0" x 3'-0" high, with 4 anchor bolts top 6" above ground. Fuel tank hold down mat is 26'-0" x 7'-6" x 12" thick. Reinforced concrete with 12 anchor bolts, buried about 7'-6" below grade. Soil pressure is 2,000 lbs. per square foot.

E-6.06 Radar Operating House Foundation:

	Ground Area Covered				20' x 23'	
	Floor Area				413 sq. ft.	
	Cubic Contents				619 cu. ft.	
he	operating house was not	designed	by	Carr	and J. E. Greiner Co.	

General Construction:

E-6

to

Concrete floor slab, foundation walls and footings.

07	Heating Plant:	One-story	rectangular	building
per	ating House.	Ū.	0	U
	Ground Area	Covered	1	201
	Floor Area			534
	Cubic Conter	nts		7,173
	Design data	as follows	5:	
	Engine Roo			456
	Covered Pa	assage		78

g with covered passage

1 x 371 sq. ft. cu. ft.

sq. ft. sq. ft.

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General Construction:

Wood roof frame. 2" x 4" stud walls. Concrete floor slab,

Foundations:

Concrete foundation: walls and footings. Soil pressure 2,000 lbs. per square foot.

Finishes:

Floor, concrete. Walls, sheathing and wood siding. Roll roofing. Wood sash doors and louvers.

Design Loads:

Roof - live load 20 lbs. per square foot. Wind - 30 lbs. per square foot.

E-7 Rifle Range .Area.

E-7.01 Location: This area is situated across New River and southwest of the Division Training Area. Since October 1, 1942, the following buildings have been built in this area:

16 Colored Troop Platoon Barracks

- 1 Colored Troops Mess Hall
- 1 Colored Troops Administration Buildi
- 1 Colored Troops Post Exchange and Bar
 - shop
- 6 Colored Troops Washrooms
- 1 Colored Troops Warehouse
- 1 Colored Troops Heating Plant
- 4 School Buildings
- 1 Post Exchange Storehouse
- 2 Well Houses Nos. S-1 & T-1

E-7.02 Colored Troops Platoon Barracks. These buildings are the same as the platoon barracks at Montford Point No. 2; for complete data swe E-13,02.

E-7.03 Colored Troops Mess Hall: Same as at Montford Foint Camp No. 2, excopt size of garbage room increased from 101 sq. ft. to 216 sq. ft. See E-13.04

E-7.04 Colored Troops Administration Building: One-story rectangular building. (Modified Platoon Barracks)

> Ground Area Covered: Floor Area: Cubic Contents

	(E-7.02)
	(E-7.03)
ng	(E-7.04)
·ber	
	(E-7.05)
	(E-7.06)
	(E-7.07)
	(E-7.08)
	(E-7.09.
	(E-7.10)
	(E-7.11)

31' x 121' 3.055 sq. ft. 36.388 cu. ft.



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Design data as follows:

Work Space Office Toilet Rooms Toilets:

> Officers: 1 water closet, 1 urinal, 1 lavatory. White N. C. O.: 1 water closet, 2 urinals, 1 lavatory. Colored: 1 water closet, 2 urinals, 1 lavatory.

General Consttuction:

Wood roof on 8" tile bearing walls stuccoed on outside, concrete pilasters, wood interior columns, concrete floor slab on ground.

Foundations:

Concrete foundation walls.

Finishes:

Roll roofing, unfinished tile walls, wood windows, cement floors,.

Dosign Loads:

Roof - live load 20 lbs. per square foot. Wind - 30 lbs. per square foot.

E-7.05 Colored Troops Post Exchange and Barber Shop. One-story rectangular building (Modified Platoon Barracks)

Ground Area Covered: Floor Area Cubic Contents: Design data as follows:

> Storage Sales space Toilet Rooms Toilets:

White: 1 water closet, 2 urinals, 1 lavatory. Colored: 1 water closet 2 urinals, 1 lavatory.

General Construction:

"ood roof on 8" tile bearing walls stuccoed on outside, Concrete pilasters, wood interior columns, concrete floor slab on ground.

Foundations:

Concrete foundation walls.

2,502 aq. ft. 308 sq. ft. 245 sq. ft.

31' x 121' 3,055 sq. ft. 36,388 cu. ft.

308 sq, ft. 182 sq. ft. 2,565 sq.ft.

Finishes:

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Roll roofing, unfinished tile walls, wood windows, cement floors.

Dosign Loads:

Roof - live load 20 lbs. per square foot. Wind - 30 lbs. per square foot.

E-7.06. Colored Troops Wash Room: Same as at Montford Point Camp No. 2; for complete data, see section E-13.03.

E-7.07. Warehouse (Colored Troops) Similar to the Platoon Barracks B-7.07. Marchard Point Camp No. 2; for data, see section E-13.02.

E -7.08 Colored Troops Central Heating Plant. Except for the foundations the building is the same as the heating plant at Montford Point Camp No. 2. For complete data see section E-13.08.

E-7.09 School Buildings One-story rectangular-shaped buildings with either 2 or 3 class rooms, similar to those at the Diwision Training Area except the walls are of concrete block, stuccoed outside. See E-2.03 for detailed description.

E-7.10 Post Exchange Storehouse.

Similar to those at the Division Training Area. For complete data. see E-2.02.

E-7.11 Well Houses Nos. S-1 and T-1 One-story rectangular buildings.

No.S-1.

Ground Area Covered Floor Area Cubic Contents

No. T-1

Ground Area Covered Floor Area Cubic Contents

General Construction: (both types)

Built-up flat roof on 13" brick bearing walls. Concrete floor slab on ground.

Foundations: (both types)

Concrete foundation walls.

11' x 13' 74 sq. ft. 1.200 cu. ft.

13' x 16' 136 sq. ft. 1.776 cu. ft.

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N X - P Pravel P - Street of St

Finishes: (both types) Built-up roof; no ceiling; unfinished brick walls, cement floor. Design Loads: (both types) Roof - 20 lbs: per square foot. Wind 30 lbs. per square foot. E-8 Barrage Balloon and Amphibian Base Area. E-8.01 Location: the ares is situated south of the Division Training Area at the site of the former village of Marines. Since October 1, 1942 the following buildings have been designed in this area: (E-8.02) 1 Bachelor Officers' Quarters (E-8.03) 1 Post Exchange Storehouse Alterations to Houses No. BB-40 (E-8.04) and BB-42 E-8.02 Bachelor Officers' Quarters. This building is a duplication of the B. O. Q. at Montford Point Camp No. 2-A. For complete data, See Section E-13.13. E-8.03 Post Exchange Storehouse. This building is a duplication of the P. X. Storehouses built in the Regimental Areas. For complete data, see section E-2.02. E-8.04 Alterations to Houses Nos. BB-40 and BB-42 Measurements were taken from existing buildings and working drawings were prepared for interior alterations. E-9 Parachute Training Area E-9.01 Location: The area is situated northwest of the Division Training Area. Since October 1, 1942 no buildings have been designed in this area.

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E-10. Landing Field and Scaplane Base.

E-10.01. Location. The base is located on the west side of New River west of the Residential Area. Since October 1, 1942, the following building has been designed in this area:

E-10.02 Lighter-Than-Air Facilities - Quarters and Storage Building. One story rectangular-shaped building.

Ground Area Covered Floor Area Cubic Contents (incl. Vault) Design Data as follows: Store Room Officers' Bed Room Enlisted Men's Bed Room Shed Fuel Truck Room Boiler Room Toilet and Bath Rooms Entry Tramsformer Vault Concrete Aprons Officers' Toilet :- 1 shower, 1 water closet, 2 lavatories. Enlisted Men's Toilet :- 1 shower, 1 water.

General Construction:

Wood frame roof on 8" tile bearing wall stuccoed outside; Concrete floor slabs on fill.

Foundations;

Concrete foundation; walls and footings. Soil Prossure - 2,000 lbs. per sq. ft.

Finishes:

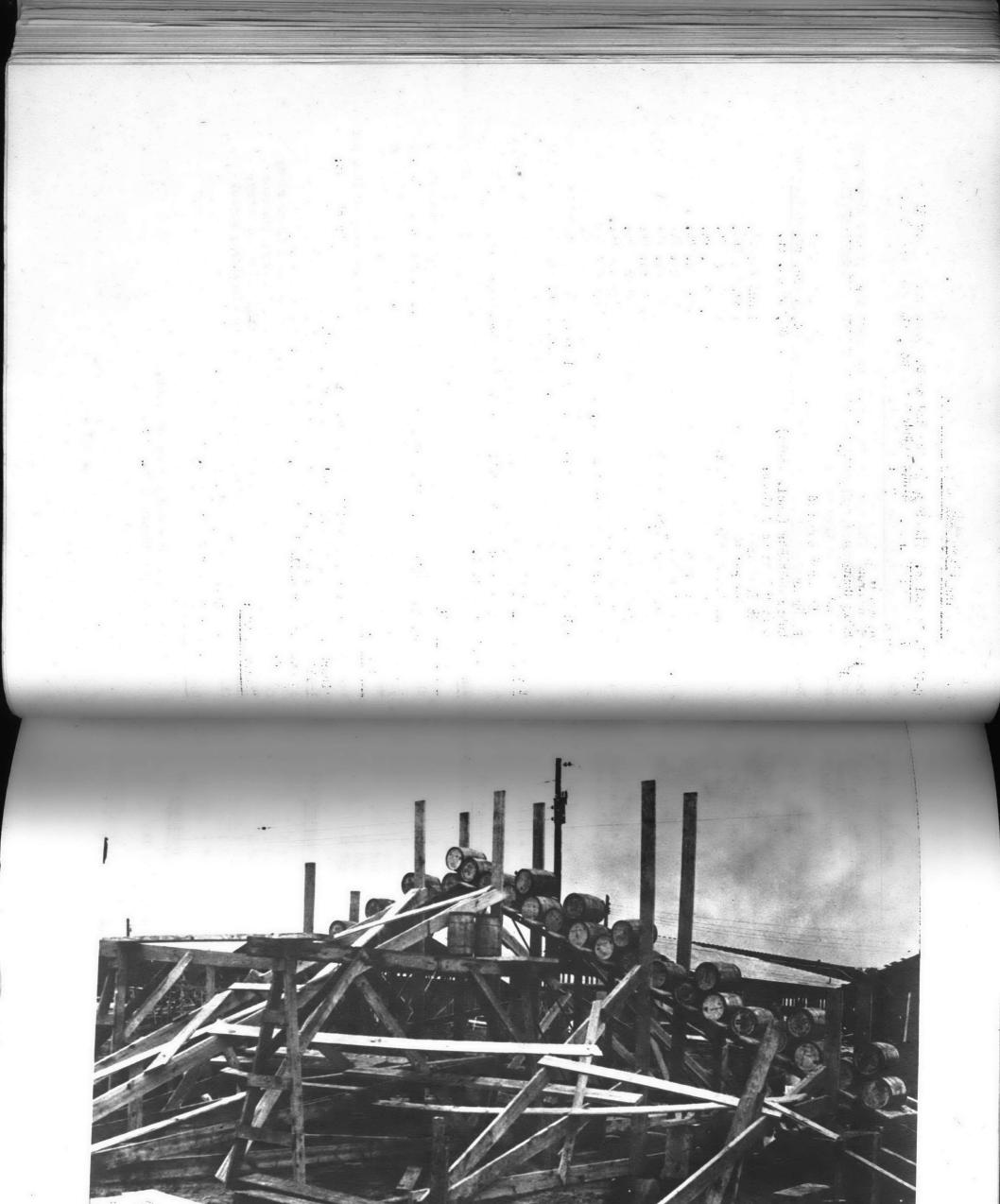
Roll roofing; no ceiling in storage room, shed and fuel truck room; fiberboard ceiling in Officers' and Enlisted Men's Bed Rooms; asbestos coilings in toilet rooms; and coment coiling in Boiler Room and Entry; coment plaster walls in toilets, unfinished masonry elsewhere; coment

Dosign Loads:

Roof - live load - 20# per square feet. Wind - 30# per square fect.

46' x 174' 4.936 sq. ft. 80.290 cu. ft. 1.599 sq. ft. 410 sq. ft. 410 sq. ft. 1,599 sq. ft. 396 sq. ft. 161 sq. ft. 152 sq. ft. ' 75 sq. ft. 81 sq. ft. 969 sq. ft.

closet. 2 lavatories.



No. 9 Marine Barracks New River, N. C. 11 June 1941 View of Test on Stran-Steel Roof Truss for Tent Camp Mess Hall. Supports failed at 7800 lbs. No failure of welds.

E-11 Tent Camp No. 1

E-11.01 Location. This camp is located in the northwestern corner of the E-11.01 Decomposition on Highway No. 17 about 2 miles southwest of Jacksonville, N. C. Since October 1, 1942, no buildings have been designed in this area.

E-12. Tent Camp No. 2

E-12.01 Location. This camp is located south of and adjacent to Tent Camp No. 1. Since October 1, 1942 no buildings have been designed in this area.

E-13 Montford Point Areasincluding Camp Anox.

E-13.01 Location.

This area is located south of Highway No. 24 about 3 miles east of Jacksonville, N. C. Since October 1, 1942 the following buildings have been designed in this area:

(a) Montford Point Camp No. 1

1 Post Exchange Storehouse 1 Officers' Washroom 1 Office and Tool Building

(b) Montford Point Camp No. 2.

1	9 Platoon Barra	cks	•
1	Enlisted Men's	Mess Hall	
1	Officers' Mess	and Demonstration	Building
6	Washrooms		U
1	Administration	Building	
	Heating Plant	0	
	Gun Sheds		
2	Warehouses		

(c) Montford Point Camp No. 2A.

5 Platoon Barracks 1 Mess Hall and Post Exchange 2 Washrooms 1 Bachelor Officers' Quarters 1 Heating Plant 2 Well Houses No.'s Z-2 and Z-3

(d) Montford Point Camp No. 3

68 Platoon Barracks 2 liess Halls 24 Washrooms 1 Administration Building

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Se. 14

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Marine Barracks New River, N. C. Wash Rooms, Tent Camp No. 2

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- 1 Infirmary 1 Theatre, Post Exchange and Barber Shop 1 Brig 2 Warehouses 1 Hostess House 1 Decontamination Building 4 School Buildings 1 Personnel Classification Building 2 Gun Sheds 1 Heating Plant 1 Swimming Pool
- 2 Well Houses Nos. Z-4 and Z-5

(e) Camp Knox.

- 1 Mess Hall 1 Dog Hospital 1 Dog Kennels 1 Dog Hospital Hoating Plant
- 1 Dog Kennels Heating Plant Renovation of Existing Buildings

Montford Foint Camp No. 1.

E-13.02 Post Exchange Storehouse.

Similar to those at Division Training Area. For complete Data, see E-2.02.

E-13.03 Officers' Washroom

This building was not designed by Carr and J. E. Greiner Company.

E-13.04 Office and Tool Storage Building (at Sewage Disposal Plant)

One story rectangular-shaped building.

Ground Area Covered		
Floor Area		4
Cubic Contents	5	5.2
Design Data as follows:		,
Office		2
Tool Room		1
Toilet and Wash Room		-
Toilet: 1 shower, 1 water closet,	1	la

General Construction:

Wood frame roof on 8" tile bearing walls, stuccoed. Concrete floor slab on fill.

(E-13.23) (E-13.24) (E-13.25) (E-13.26) (E-13.27) (E-13.28) (E-13.29) (E-13.30) (E-13.31) (E-13.32) (E-13.33) (E-13.34) (E-13.35) (E-13.36) (E-13.37)

(E-13.38)

(E-13.39)

(E-13.40)

21' x 30' 424 sq. ft. 280 cu. ft. 209 sq. ft. 135 sq. ft. 79 sq. ft. avatory.

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Foundations

Concrete foundation walls.

Finishes:

Asbestos board ceiling in wash room, no ceiling elsewhere; cement plaster walls in washroom and unfinished tile walls elsewhere; cement floor.

Design Loads:

Roof - live load - 20% per square foot Wind - 30# per square foot

Montford Foint Camp No. 2.

E-13.05 Platoon Barracks: One story rectangular building.

1	Ground Area Covered:	3
	Floor Area:	3.05
	Cubic Contents:	36,38
	Design data as follows:	
	Squad Room (32 Bed Spaces)	2.72
	Instructors Room (2 bed spaces)	32
al	Construction	

Wood roof on 8" tile bearing walls, stuccoed on outside. Concrete pilasters, wood interior columns, concrete floor slab on ground.

Foundations:

Concrete foundation walls; building on concrete slab.

Finishes:

Gener

Roll roofing, unfinished tile walls, wood windows, cement floors.

Design Loads:

Roof- live load - 20 lbs. per square foot Wind - 30 lbs. per square foot.

E-13.06 Enlisted Men's Mess Halls

Ground Area Covered	.1
Floor Area	11.98
Cubic Contents	211.99
Design data as follows:	,

Mess Hall Seating 576 men or 12.4 sq. ft.per man Galley

31' x 121')55 sq. ft. 88 cu. ft.

'26 sq. ft. 29 sq. ft.

22' x 246' 89 sq. ft. 92 cu. ft. 7,162 sq. ft.

· 1,806 sq. ft. - - 0



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	Scullery		759	sq.
	Storage		303	sq.
	Refrigerator Rdoms		337	sq.
	Machinery Room		119	sq.
	Preparation Rooms		669	sq.
	Garbage		101	sq.
- 19	Toilet Rooms		144	
	Uffice discussion of the second secon		125	sq.
	Corridors		464	sq.
				+

Toilets: 3 water closets, 2 urinals, 3 lavatories.

General Construction ;

Wood roof trusses on 8" tile bearing walls stuccoed on outside. Concrete floor slab on ground.

Foundations:

Concrete foundation walls and footings.

Finishes:

Roll roofing, unfinished tile walls and partitions, wood windows, cement floors, asbestos board ceiling.

E-13.06 Mess Hall.

In scullery, galley, garbage room and toilets; Design Loads: Roof - live load 20 lbs. per square foot. Wind - 30 lbs. per square foot.

E-13.07 Officers Mess Hall (Demonstration Building) One story rectangular building.

Ground Area Covered:		121	' x '	4
Floor Area:		4,244	sq.	
Cubic Contents:		63,667		
Design data as follows:				
Mess Hall		. 923	sq.	
Galley		2,407		
Officers Quarters Kitchen			sq.	
Vegetable Preparation Room	*	232	sq.	
Store Koom		450		

General Construction.

Wood roof trusses on 8" tile bearing walls stuccoed on outside. Concrete pilasters. Concrete Floor slab on ground.

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Foundations:

Concrete foundation walls on wall footings spread footings under interior columns.

Finishes:

Roll roofing, unfinished tile walls and partitions, wood windows, cement floors.

Design Loads:

- Roof- live load - 20 lbs. per square foot. Wind- 30 lbs. per square foot.

E-13.08 Wash Rooms: One story rectangular building.

Ground Area Covered:	43	x
Floor Area:	1,831	sq.
Cubic Contents:	29,600	cu.
Design data as follows:		
Wash Room	588	sq.
Toilet Room	435	sq.
Shower Room	201	sq.
Drying Room	223	sq.
Scrub Deck Room	384	sq.

Fixtures:

Wash Room: 36 positions at wash sinks, 4 drinking fountains. Toilet Room: 18 water closets, 17 urinals. Shower Room: 12 heads. Scrub Deck Room: 16 positions at scrub decks.

General Construction:

Wood roof trusses on 8" tile bearing walls stuccoed on outside. Concrete floor slab on ground.

Foundations:

Concrete foundation walls and footings; Concrete slab under building.

Finishes:

Roll roofing, unfinished tile walls except in shower room. Plaster walls in shower room. Asbestos board ceilings, cement floors, wood windows.

Design Loads:

Roof - live boad - 20 lbs. por square foot. Wind - 30 lbs. per square foot.

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E-13.09 Administration Building. One story rectangular building.

Ground Area Covered:		
Floor Area:		1,80
Cubic Contents:		25,3
Design data as follow	S;	
Corridors		4:
Offices (7)		1,1
Toilets		20

Toilets:

White: 2 water closets, 2 uninals, 2 lavatories. Colored: 2 water closets, 2 urinals, 2 lavatories.

General Construction:

Wood roof trusses on 8" tile bearing walls stuccoed on outside. Concrete floor slab on ground,

Foundations:

Concrete foundation walls; Concrete slab under building.

Finishes:

Roll roofing, unfinished tile walls and partitions, wood windows. cement floors.

Design Loads:

Roof - live loads - 20 lbs. per square foot. Wind - 30 lbs. per square foot.

E-13.10 Heating Plant. One story roctangular building.

Ground Area Covored:	5
Floor Area:	1.02
Cubic Contents:	25,80
Design data as follows:	,
Boiler Room	1,02

General Consttuction:

Wood roof trusses on 12" tile bearing walls stuccoed on outside. Concrete pilasters, Concrete floor slab on ground. 70' frue standing brick chimney.

Foundations:

Concrete foundation walls on wall footings.

31' x 76' 306 sq. ft. 313 cu. ft. 20 sq. ft.

78 sq. ft. 208 sq. ft.

32' x 60' 22 sq. ft. 09 cu. ft.

22 sq. ft.

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Finishes:

Roll roofing, unfinished tile walls, wood windows, cement floors.

Design Loads:

Roof - live loads - 20 lbs. per square foot. Wind - 30 lbs, per square foot.

E-13.11 Gun Sheds. One story rectangular-shaped open sheds with enclosed bay at each end.

Ground Area Covered:	50
Floor Area:	5,795
Cubic Contents:	85,456
Design Data as follows:	
Open Area	4,752
Enclosed bays	986
Concrete Ramps	796

General Construction:

Wood frame roof on 2" x 6" stud walls at the ends and 6" x6" columns at the sides. Concrete slab floor on ground.

Foundations:

Concrete foundation walls and footings. Soil pressure 1500# per sq. ft.

Finishes:

Roll roof. T. and G. sheathing for ceiling, and walls; cement floor.

Design Loads:

Roof - live loads 20 lbs. per square foot. Wind - 30 lbs. per square foot.

E-13.12 Warehouses: One story, rectangular building.

Ground	Area Co	vered:	62
Floor	Area:		8:984
Cubic	Contents	:	148,2.69
Clear	Ceiling	Height:	9

General Construction:

Wood roof on 8" tile bearing walls stuccoed on outside. Concrete pilasters, wood interior columns. Concrete floor slab on ground.

" x 133" sq. ft. cu. ft.

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anta anta las de ∎tra anta anta anta anta anta anta anta de 12 Design Loads:

Foundation:

Finishes:

floorsi

Roof - live loads - 20 lbs. per square foot. Wind - 30 lbs. per square foot.

Montford Point Camp No. 2A

E-13.13 Platoon Barracks

Similar to those at Montford Point Camp No. 2 See E-13.02

E-13.14 Mess Hall and Post Exchange. One story irregular shape building.

Ground Area Covered:			·104	1 :
Floor Area:			10,831	S
Cubic Contents:			197,735	
Design data as follows:				
Moss Hall			3,922	SC
Seating 296 men or 13.25	sq.	ft.	per mar	1.
Galley			1,591	
Scullory			324	
Storage (Mess Hall)			373	SC
Refrigerator Rooms			264	
Machinery Room			99	SC
Gear Room			18	
Garbage Room			95	
Toilet Room (Hess Hall)			84	SC
office (Moss Hall)	•	1	95	SC
Recreation Hall			2,568	SC
Storage (P. X.)			157	
Office (P.X.)			118	
Receiving Room (P. X.)			139	SC
Toilet Room (P.X.)				SC
Barbor Shop				
Corridors			403	
				-

Toilets: 5 water closets, 3 urinals, 3 lavatories

General Constructions:

Wood roof on 8" tile bearing walls stuccoed on outside. Concrete pil-

- 925 -

Concrete foundation walls, concrete slab under building.

Roll roofing, unfinished tile walls, wood doors and windows, cement

x 256' sq. ft. cu. ft.

sq. ft.

sq. ft. sq. ft. sq. ft. sq. ft. sq. ft. sq. ft. sq. ft. sq. ft. sq. ft. sq. ft. sq. ft. sq. ft. sq. ft. sq. ft. sq. ft.

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nsters, concrete floor slab on ground.

Foundations:

Concrete foundation walls and footings. Soil pressure 2,000 lbs. per square foot.

Finishes:

Roll roofing, unfinished tile walls and partitions, asbestos ceiling in scullery, galley toilets, garbage and gear rooms, cement floors, wood windows.

Design Loads:

Roof - live load 20 lbs. per square foot. Wind - 30 lbs. per square foot.

E-13. 16 Wash Rooms.

Similar to those at Montford Foint Camp No. 2. See E-13.03

E-13.16 Bachèlor Officers' Quarters. Two-støry irregular shape building.

Ground Area Covered:	Ş)2' x	: 229
First Floor Area	10,54		
Second Floor Aroa:	8:92	6 sq	. ft
Total Floor Area:	19,46	i8 sa	ft.
Cubic Contents:	283,346		
Design data as follows:	200,010	· · · · ·	10.
First Floor:			
Corridors, Entries and Ha	111s 1,708	sq.	ft.
Toilets, Wash Rooms and G			
Trunk Room	118	sq.	ft.
Linen Closet		sq.	
Public Lounge	• 1,100		
Private Lounge	208	sq.	
Bed Rooms (11 Officers an	d	1	
l steward's)	2,227	sq.	ft.
Bed Room Closets	264		
Dining Room	2,028		
Seating 96 men or 21.1. s	q. ft. per	man.	
Galley		sq.	
Scullery		sq.	
Preparation Room		sq.	
Storage Room		sq.	
Refrigerator Rooms		sq.	
Machinem: Deam	200	nd.	100

	106	sq.	IT.
Preparation Room	206	sq.	ft.
Storage Room			ft.
Refrigerator Rooms	180		
Machinery Room			ft.
Garbage Room	222		
		-	

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	Second Floor		
1.10	Corridors and Stairs	1,982	sq.
	Toilets, Wash Rooms and Gear	564	sq.
	Linen Closet	83	sq.
	Trunk Rooms	241	sq.
1.	Bed Rooms (29 Officers')	5,412	sq.
	Bed Room closets	644	sq.

General Construction:

Wood roof on 12" tile bearing walls stuccoed on outside. Second floor concrete slab on ground or fill.

Foundations:

Concrete foundation walls and footings. Soil pressure 2,000# per sq. ft/

Finishes:

Roll roofing on two story portions, built up roof on one story portions. Plaster, fiberboard or asbestos board ceiling, plaster walls. Wood or Cement floors. Wood windows with brick outside trim.

Design Loads:

Roof - live load - 20 lbs. per sq. foot Wind - 30 lbs. per sq. ft.

E-13.17 Central Heating Plant. One-story rectangular building.

Ground Area Covered	41' x
Floor Area	988 sq
Cubic Contents	26,544 cu
Design data as follows:	,

Boiler Room

988 sq. ft.

General Construction:

Wood roof trusses on 12" tile bearing walls stuccoed on outside. Conerete pilasters Concrete floor slab on ground. 70' free standing brick

Foundations:

Concrete foundation walls and footings. Soil pressure 2,000 lbs. per square foot.

Finishes:

Roll roofing, unfinished tile walls, wood windows, cement floors.

ft. ft. ft. ft. ft: ft.

x 51' q. ft.

u. ft.

Design Loads:

Roof - live load - 20 lbs, per square foot. Wind - 30 1bs: per square foot.

E-13.18 Well Houses Nos: Z-2 and Z-3

similar to Well House no. Sal at the Rifle Range Area. For complete Data, see E-7.11

E-13.19 Platoon Barracks -Mentford Point Camp No. 3

Similar to those at Montford Point Camp #2. See E-13.02

E-13.20 Mess Hall - Montford Point Camp No.3. One-story irregular H shape Building.

round Area Covered: Floor Area:		99
	21,2	
ubic Contents:	391,8	62
esign data as follows:		
Mess Halls	13,8	26
Seating 992 men or 14.0 s	q. ft. per man	•
Galley (Capacity 2000)	2,7	38
Sculleries	1,6	72
Storage		74
Refrigerator Rooms		10
Machinery Rooms		64
Preparation Rooms	5	56
Garbage Room	* 2'	79
Toilet Rooms		55
Office		27
Gear Room		95
Corridors		34

General Construction:

Wood roof trusses on 8" and 12" tile bearing walls stuccoed on outside. concrete columns. Concrete floor slab on ground.

Foundations:

Concrete foundation: walls and footings. Soil pressure 2,000 lbs. per square foot.

Finishes:

Roll roofing, unfinished tile walls and partitions. Asbestos ceiling in Galley, Scullery, Toilets, Garbage Room and Gear Room. Wood Windows, brick trim around windows coment floors.

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Roof - live loads - 20 lbs. per square foot. Wind - 30 lbs. per square foot. Similar to those at Montford Point Camp No. 2. See E-13.03 1381 ft. ft. ft. ft. ft. ft. ft. ft. lavatories. Colored: 3 water closets, 2 urinals, 4 lavatories. Wood roof on 8" tile bearing walls stuccoed on outside. Concrete floor Concrete foundation walls and footings. Soil pressure 2,000 lbs. per Roll roofing, unfinished tile walls, fiberboard or asbestos ceilings, Roof - live load - 20 lbs. per square foot. Wind - 30 lbs. per square foot. Ground Area Covored 163' x 270'

Ground Area Covered:	62	' x 1
Floor Area:	5,553	sq.
Cubic Contents: Design data as follows:	90,440	
Lobby and Corridors	1,039	sq.
Offices (16)	3,743	sq.
Toilet Rooms	447	sq.
Storage Rooms	158	sq.
Gear Room	28	sq.
Telophone Office Toilets:	138	sq.
White: 4 water close	ts, 4 urinals	6 1

Design Loads: E-13.21 Wash Rooms. E-13.22 Administration Building. One-story U Shape Building. General Construction: slab on ground. Foundations: square foot. Finishes: comont floors. Wood windows with brick trim. Dusign Loads: E-13.23 Infirmary. One-story building in 2 rectangular units connected by a corridor and with projections at the front near the ends.

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Floor Area 20:179 sq. ft. Information Room Physiotherapy Room

Cubic Contents 408.744 cu. ft. Design data as follows: 416 sq. ft. 320 sq. ft. Doctor's Offices 1094 sq. ft. X-Ray and Dark Room 291 sq. ft. Future Dontal Rooms 576 sq. ft. Dental Rooms 960 sq. ft. Dontal X-Ray and Operating Room 332 sq. ft. Waiting Rooms 813 sq. ft. 0. 0. D. Bod Room and Toilet 213 sq. ft. Storage Rooms 447 sq. ft. Locker Room 138 sq. ft. Toilets 564 sq. ft. Pharmacy and Storage Rooms 373 sq. ft. Laboratory 251 sq. ft. Corp. Bed Room and Toilet 259 sq. ft. Venereal Treatment Rooms 392 sq. ft. Examination Rooms 375 sq. ft. Admit and Exam Room 206 sq. ft. Surgical Drossing Room 275 sq. ft. Sterlizer Room 73 sq. ft. Scrub Room and Closet 57 sq. ft. Surg. Work Room 180 sq. ft. Senior M. O. Room 270 sq. ft. Board Room 157 sq. ft. Physical Exam. Room 327 sq. ft. Sick Call Room and Toilet 514 sq. ft. Refraction Room 130 sq. ft. E. E. N. T. and Audio. Rooms 676 sq. ft. Hain Ward 4,247 sq. ft. 4-Bod Ward Room 286 sq. ft. 2-Bed Ward Room 186 sq. ft. Fatient Room 127 sq. ft. Diet Kitchen 180 sq. ft. Quiet Rooms Toilet 430 sq. ft. Wash up Room 97 sq. ft. Utility and Goar Room 224 sq. ft. Soil Linen Room and Closets 88 sq. ft. Lobby, Entries and Corridors 5,253 sq. ft. Enlisted Men's Toilet: 3 water closets, 2 urinals, 2 lavatorics. Officers' Toilet: 2 water closets, 2 urinals, 2 lavatories. Men's Toilet: I water closet, 1 urinal, 1 lavatory. Women's Toilet: 2 water closets, 1 lavatory. Lain Mard Toilet: 3 water closets, 2 urinals, 1 lavatory. Main Ward Bathroom: 1 shower, 1 water closet. Quict Room Bath: 1 s ower, 1 water closet. 1 lavatory.

4-Bed Ward Toilet: 1 shower, 1 water closet, 1 lavatory. 2-Bed Ward Toilet: 1 shower, 1 water closet, 1 lavatory. Patient Room Toilet: 1 shower, 1 water closet, 1 lavatory. Exam Room Toilet: 1 water closet, 1 lavatory. Corp. Bod Room Toilet: 1 shower, 1 water closet, 1 lavatory. Sick Call Room Toilet: 1 shower, 1 water closet, 1 lavatory. 0. 0. D. Room foilet: 1 shower, 1 water closet, 1 lavatory.

General Construction:

Wood roof on 8" tile block bearing walls, stuccoed outside, concrete floor slab on tile base.

Foundation:

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Concrete foundation walls and footings. Soil pressure 2000# per. sq.ft ..

Finishes:

Cement floors, plastered walls; fibre board ceilings except toilets. bath rooms, goar and utility rooms, surgical rooms, dark room, venereal treatments where coment plaster is used; wood windows and roll roofing.

E-13.24 Theatro, Post Exchange and Barber Shop. One-story, rectangular shape building with mezzanine across front and projecting wing at each side.

Ground Area Covered		131
Seating Capacity		100
First Floor Area		12;292
Mezzanine Floor Area		2:356
Total Arca		14,648
Cubic Contents		407,358
Design data as follows:		

First Floor Mozzanine-	
Auditorium	7,100
Stage	1,249
Stage dressing room & Toilet	237
Store and Storage Rooms	939
Sales Room	1,380
Barber Shop	954
Offices	379
Receiving Room	271
Projection & Winding Rooms	509
Public and Barbers' Toilets	589
Air Conditioning Room	434
Ticket Booth, Closets, & Gear	
Room	139
Lobby, Vostibulo, Entrics, Exit	
Halls, Corridors, stairs, Halls	1;407

31' x 157' 00 Scats 2 sq. ft. 56 sq. ft. 18 sq. ft. 58 cu.ft.

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1,103 sq. ft. Dressing Room Toilets (2)12 water closets. 4 showers, 4 lavatories Men's Toilet: 4 water closets, 3 urinals, 5 lavatories. Barbers' Toilet: 1 water closet, 1 urinal, 1 lavatory. Ladies' Toilet: 2 water closets. 4 lavatories.

General Construction:

Structural steel frame; concrete floor slab on fill; 122 tile and einder block walls around Auditorium and 8" tile walls for side wings. stuccoed outside.

Foundation:

Concrete foundation walls and footings. Soil pressure 2000 # per. sq.ft.

Finishes:

Cement and wood floors, wood wainscot, unfinished tile and cinder block walls, acoustical fiber borad coilings, wood windows and roll roofing.

Design Loads:

Roof - live loads - 20 lbs. per sqaure foot. Wind - 30 lbs. per sqaure foot.

E-13.25	Brig.	One-story	rectangular	building	with
and rear.			· · · · · · · · · · · · · · · · · · ·	0	

Ground Area Covered Floor Area Cubic Contents Design Data as follows:	5,471	' x 147' sq. ft. cu. ft.
Dormitories	2 117	ag ft
Cells		sq. ft. sq. ft.
Toilet Rooms		sq. ft.
Shower and Drying Room		sq. ft.
Turnkey	90	sq. ft.
Vestibule and Corridors	821	sq. ft.
Main Toilet Room: 5 water	closets, 5	urinals,
Vestiblue Toilet: 1 water	closet, 1	lavatory.

General Construction:

Wood roof on 8" tile bearing walls, stuccoed; concrete floor slab on fill.

Foundation: Concrete foundation walls and footings. Soil pressure 2000 lbs. per square foot.

- 932 -

h projection at front

l sq. ft. 8 cu. ft. 7 sq. ft. 0 sq. ft. 9 sq. ft. 4 sq. ft. 0 sq. ft. sq. ft. 5 urinals, 8 lavatories. lavatory.

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Finishes:

Cement floors, unfinished tile walls except in shower room and vestibule Toilet which have coment plaster; asbestos board ceiling in all rooms and corridors except dormitories which have roof sheathing roll roofing.

Design Loads:

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Roof - live loads 20 lbs. per square foot. Wind - 30 lbs. per square foot.

E-13.26 Warehouses

Similar to those at Montford Point Camp No. 2. See E-13.05.

E-13.27 Hostoss House- One-story T shaped building with projection at end in the front.

Ground Area Covered Floor Area Cubic Contents Design data as follows:		1		145 475 173	
	144				
Bed Rooms			3.	537	
Hostess' Bed Room				176	
Assistants' Bod Room				165	
Offico				114	
Bath and Toilet Rooms				771	
Dining Room			٦	985	
Galley			-	650	
Scullery				90	
Storage Rooms				256	
Gear Rooms					
Linon Stora, e Rooms				81	
Lobby, Corridors. Entries a	and			80	LO
Telephone Booths			2,	697	22

General Construction ;

Wood roof on 8" tile bearing walls, stuccod; concrete floor slab on tilo base.

Poundations:

Concrete putside foundation walls and all footings, other foundation walls brick. Soil bearing prossure 2,000 pbs. per square foot. Finishes:

Roll roofing, plastered walls, fiber board coilings, wood windows and comont floors.

x 190' sq. ft. cu. ft.

sq. ft. sq. ft. sq. ft. sq. ft. sq. ft. sq. ft. sq. ft. sq. ft. sq. ft. sq. ft. sq. ft.

sq. ft.

Design Loads:

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Roof - live loads - 2,000 lbs. per sq. uare foot. Wind - 30 lbs. per square foot.

E-13.28 Decontamination Building. One-story rectangular-shaped building.

Ground Area Covered Floor Area Cubic Contents Design data as follows:		37' 5,162 s 83,250 c
Sterile Storage Area Unsterile Storage Room Concrete Platforms Outside	•	3,071 so 2,066 so 192 so

General Construction:

Wood frame roof on $12\frac{1}{2}$ " tile bearing wall, stuccoed outside. Concrete floor slab on ground.

Foundations:

Concrete foundation walls and roofings. Soil bearing pressure 2000 lbs. per square foot.

Finishes:

Roll roofing, underside of roof sheathing for ceiling; unfinished tile walls; cement floor.

Design Data:

213

Roof - live loads - 201bs. per square foot. Wind - 30 lbs. per square foot.

E-13.29 School Buildings: One-story rectangular buildings. Four of these modified platoon barracks buildings were built at Montford Point Camp No. 3. Three are identical and the fourth is further modified to provide toilet facilities in place of one class room.

Ground Area Covered: Floor Area: Cubic Contents: Design data as follows:	31' x 121 3,055 sq. ft 36,388 cu. ft
Instructors Office (all build	lings) 321 sq. ft
Class Rooms (3 buildings)	2,734 sq. ft
Class Rooms (1 building)	2,041 sq. ft
Toilet Rooms (1 building)	693 sq. ft

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General Construction:

Wood roof trusses on 8" tile bearing walls stuccoed on outside. Concrete pilasters concrete floor slab on ground.

Foundations:

Concrete foundation walls. Soil pressure 2,000 lbs. per square foot.

Finishost

Roll roofing, unfinished tile walls. Wood windows cement floors.

Dosign Loads:

Roof - live load 20 lbs. per square foot. Wind - 30 lbs. per square foot.

E-13.30 Personnel Classification Building: This one-story rectangular building is a modification of a standard platoon barracks building.

Ground Area Covered:	31
Floor Area:	3,055
Cubic Contents:	36,388
Design data as follows:	
Office	329
Classification Room	2.726

General Construction:

Wood roof on 8" tile bearing walls stuccoed on outside. Concrete pilasters concrete floor slab on ground.

Foundations:

Concrete foundation walls. Soil pressure 2,000 lbs. per square foot.

Finishes:

Roll roofing, unfinished tile walls, wood windows, cement floors.

Dosign Loads:

Roof - live load 20 lbs. per square foot. Wind - 30 lbs. per square foot.

E-13.31 Gun Sheds.

Similar to those at Hontford Point Camp No. 2. For complete data

' x 121' sq. ft. su. ft.

sq. ft. 2,726 sq. ft.

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E-13.32 Contral Heating Flant

Ground Area Co	vered		59	1
Floor Area			5,505	S
Cubic Contents			196,445	C
Design data as	follows			
Boiler Room	•		5,101	S
Office	Χ.		81	
Toilet Rooms			98	
Hopper Tower			225	S
Toilets: 2 w	ater closets	s, 2	urinals, 2	sh

General Construction:

Steel roof trusses on 12" brick bearing walls stuccoed on outside. Brick pilasters, concrete floor slab on ground. 115' free-standing radial brick stack.

Foundations: Concrete foundation walls and footings. Concrete slab boiler foundations. Soil pressure 2,000 lbs. per square foot.

Finishes: Corrugated asbestos roofing, unfinished walls, steel windows, cement floors.

Design Loads:

Roof - live load 20 lbs. per sq uare foot. Wind - 30 lbs. per square foot.

E-13.33 Swimming Pool:

Similar to those at the Division Training Area. See E-2.05.

E-13.34 Well Houses Nos. Z-4 and Z-5.

No. Z-4 is similar to well House No. T-1 at the Rifle Range Area. For complete data see E-7.11.

No. Z-5 is similar to well House No. S-1 at the Rifle Range Area. For complete data, see E-7.11.

Camp Knox

E-13.35 Mess Hall: One-story T-shaped building.

Ground Area Covered:	79' 2
Floor Area:	3,053 sc
Cubic Contents:	36,060 cu
Design data as follows:	,

- 936 -

Mess Hall 1,957 sq. ft. Seating 156 mon or 12.5 sq. ft. per man

x 115' sq. ft. cu. ft.

sq. ft. sq. ft. sq. ft. sq. ft. hower heads

x 111' g. ft. u. ft.

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Galley Storage Room

754 sq. ft.

General Construction:

Wood roof with monitor on 8" tile bearing walls stuccoed on outside. Concrete floor slab on ground.

Foundations:

Concrete foundation walls.

Finishos:

Roll roofing unfinished tile walls, wood windows with brick trim. Cement floors.

Design Loads:

Roof - live load 20 lbs. per square foot. Wind - 30 lbs. por square foot.

E-13.36 Dog Dispensary : One-story T-shaped building.

Ground Area Covered:			35	' x
Floor Area:			1,494	
Cubic Contents:			19,163	CU.
Design data as follows:			,400	o u e
Hall			0.0	
Office				sq.
Store Room			77	sq.
			77	sq.
Examination Room			208	
Treatment Rooms			153	
Sick Bay Corridor			157	
Sick Bay Stalls			340	
Isolation Corridor				sq.
Isolation Stalls				
Exercise Room			100	sq.
Quarters			156	
Toilet and Gear			114	
Toilet. 1 water al		N. Contraction	43	sq.
Toilet: 1 water closet,	1	Lavator	y, 1 sh	ower

General Construction:

Wood frame and siding, wood floors.

Foundations:

"ood piers (creescted pile cut-offs)

342 sq. ft.

791 . ft. . ft.

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ft. r.

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Finishes:.

Roll roofing, presdwood partitions, presdwood ceiling over isolation stalls, wood windows, wood floors.

Design Loads:

Roof - 20 lbs. per square foot: Wind - 30 lbs. per square foot.

E-13.37 Kennel House: One-story rectangular building with roofless dog runs along each side.

Ground Area Covered:	79	t x	25
Floor Area:	17,040	sq.	f
Cubic Contents!	105,253		
Design data as follows:			
Entry	160	sq.	f
Aisles	1,940	sq.	f
Kennels (80)	1,803	sq.	f
Kitchen		sq.	
Bath and Grooming Room		sq.	
Quarters	185	sq.	f
Toilet Room	38	sq.	f
Equipment Room		sq.	
Passages	. 364		
Runways	3,958		
Runs (80)	8,050		
Toilet: 1 water closet, 1 lavat	ory, 1 sh	ower	

General Construction:

Wood roof trusses on 8" brick bearing walls. Wood floors in kennels, concrete slab on fill in runs and runways.

Foundations:

Concrete foundation walls and footings.

Finishes:

Roll roofing, unfinished brick walls, brick or plywood partitions. Wood and coment floors, wood windows.

Design Loads:

Roof - live load 20 lbs. per square foot. Mind - 30 lbs. per square foot.

79' x 250' 7,040 sq. ft: 5,253 cu. ft.

160 sq. ft. 1,940 sq. ft. 1,803 sq. ft. 171 sq. ft. 210 sq. ft. 185 sq. ft. 38 sq. ft. 161 sq. ft. 364 sq. ft. 3,958 sq. ft. 8.050 sq. ft.

E-13.38 Dog Dispensary Heating Plant: One-story rectangular building.

Ground Area Covered:		
Floor Area:	r.	.1
Cubic Contents:	/	3,0

General Construction:

Wood roof on 8" brick bearing walls, concrete floor slab on ground. 30' free standing brick stack.

Foundations:

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Concrete foundation walls and footings.

Finishes:

Roll roofing, unfinished brick walls, cement floors, wood windows.

Design Loads:

Roof - live load 20 lbs. per square foot. Wind - 30 lbs. por square foot.

E-13.39 Konnel House Heating Plant: One-story rectangular building.

Ground Area Covered:	1
Floor Area:	19
Cubic Contents:	3.260

General Construction:

Wood roof on 8" brick bearing walls, concrete floor slab on ground. 40' free standing brick stack.

Foundations:

Concrete foundation walls and footings.

Finishes:

Roll roofing, unfinished brick walls, coment floors, wood windows.

Design Loads:

Roof - live load 20 lbs. per square foot. Wind - 30 lbs. per square foot.

E-13.40 Renovation of Existing Buildings at Camp Anox

Specifications were prepared to cover the renovation of buildings formerly used by the CCC; no drawings were made for this work.

- 939 -

15' x 22' 180 sq. ft. 050 cu. ft.

15' x 24' 92 sq. ft. 60 cu. ft.

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3-14 Peterfield Point Camp:
                                                                                        and the second state of th
                                                                                                                                                                                                                                                                                              E-14.01 Location. This camp is located about two miles from and east of
                                                                       Tent Camp No. 2. Since October 1, 1942, no buildings have been designed in
                                                                                                                                                                                                                                                                                              this area.
                                                                                                                                                                                                                                                                                              E-15 Tank Battalion Camp.
       E-15.01 Location. This camp is located about two miles southwest of Tent
                                                                                                                                                                                                                                                                                              Camp No. 2, east of Highway No. 17. Since October 1, 1942, no buildings
                                                                                                                                                                                                                                                                                              have been designed in this area.
                                                                                                                                                                                                                                                                                              E-16 Midway Park Residential Area.
                                                                                                                                                               and the second second second second
                                                                                                           and and a second se
                                                                                                                                                                                                                                                                                              E-16.01 Location: The area is located north of Highway No. 24 across
                                                                                                                                                                                                                                                                                              from the Main Entrance to the Camp. Since October 1, 1942, no buildings
                                                                                                                                                                                                                                                                                              have been designed in this area by Carr and J. E. Greiner Co. Additional
                                                                                                      and and a second se
                                                                                                                                                                                                                                                                                              white and colored housing, including a sewage pumping station. school.
                                                                                                                                                                                                                                                                                              Post Office, administration office, clinic, library, auditorium. and other
                                                                                                                                                                                                                                                                                              buildings were designed by others.

    A single for the second se
 second sec
                                                                                                                                                                                                                                                                                              E-17 Marine Corps Women's Reserve Area.
                                                                                                                                                                                                                                                                                              E-17.01 Location: The area is located on the northeast of and adjacent
                                                                              to the Post Froops Area. Since October 1, 1942 the following buildings
                                                                                                                                                                                                                                                                                              have been designed in this area:
                                                                                                              and the second sec
                                                                                                                                                                                                                                                                                                                                   8 Barracks Buildings
                                                                                                                                                                                                                                                                                                                                   1 Mess Hall
                                                                                                                                                                                                                                                                                                                                   1 Administration Building
                                                                                                                                                                                                                                                                                                                                   1 Infirmary
1 Post Exchange and Service Club
                                                                                                                                                                                                                                                                                                                                   2 Bachelor "fficers' Quarters
                                                                                                                                                                                                                                                                                                                                   4 Warehouses
                                                                                                                                                                                                                                                                                             E-17.02 Barracks: Two-story H-shaped Building.
                                                                                                                                                                                                                               the state
                                                                                                    and the second second second second
                                                                                                                                                                                                                                                                                                                                   Ground Area Covered:
                                                                                                                                                                                                                                                                                                                                    First Floor Ares:
                                                                                                                                                                                                                                                                                                                                   Second Floor Area
                                                                                                                                                                                                                                                                                                                                   Cubic Contents:
                                                                    Design data as follows:
                                                                                                                                                                                                                                                                                                                                           First Floor:
                                                                                            tingen som en som e
Som en som en som en som en som en som en som en som en som en som en som en som en som en som en som en som en
Som en som en som en som en som en som en som en som en som en som en som en som en som en som en som en som en
                                                                                                                                                                                                                                                                                                                                                    Dormitories
                                                                                                                                                                                                                                                                                                                                                    Lounge
                                                                                                                                                                                                                                                                                                                                                    Toilet Rooms
                                                                                                                                                                                                                                                                                                                                                    Shower Rooms
                                                                                                                                                                                                                                                                                                                                                   N. C. O. Room
                                                                           and the second                                                                                                                                                                                                                                                                                                                                                     Men's Toilet
Gear Rooms
                                   a grant de la care en entre de la set adaption entre a se dis-
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(E-17.02) (E-17.03)(E-17.04) (E-17.05) (E-17.06) (E-17.07) (E-17.08)

138' x 186' 11.196 sq. ft. 11.253 sq. ft.

299,820 cu. ft.

6.674 sq. ft.

982 sq. ft. 772 sq. ft.

409 sq. ft.

106 sq. ft.

94 sq. ft.

42 sq. ft.

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Wash and Ironing Rooms Corridors, Halls and Stairways 1,281 sq. ft.

Second Floor:

Dormitories			6,752	sq.	ft.
Recreation Room					ft.
Toilet Rooms					ft.
Shower Rooms					ft.
N. C. O. Room					ft.
Gear Rooms		L			ft.
Wash and Ironing	Room	ns		-	ft.
Storage Rooms			163	-	
Corridors, Halls	and	Stairways			
		U		+	

First Floor:

Toilet Rooms: 20 water closets, 20 lavatories. Shower Rooms: 14 heads. 2 tubs. Wash and Ironing Moom: 10 laundry sinks. Gear Rooms: 2 slop sinks. Men's Toilet: 1 water closet. 1 urinal. 1 lavatory.

Second Floor:

Toilet Rooms: 20 water closets, 20 lavatories. Shower Rooms: 14 heads, 2 tubs. Wash and Ironing "oom: 10 laundry sinks. Gear Rooms: 2 slop sinks.

General Construction:

Wood roof trusses on $12\frac{1}{2}$ " tile and brick veneer bearing walls. Second floor, wood in dormitories, concrete slab clsewhere. First floor concrete slab on fill.

Foundations:

Concrete foundation walls and footings. Soil pressure 1,500 lb. per square foot.

Finishes:

Asbustos shingle roof. Fibre board ceilings in dormitories, Recreation Fortiand Corridors, etc. asbestos board ceilings in Toilets, showers etc. ortland coment plaster in Toilets, showers etc. Gypsum plaster walls else-Floors, wood in second floor dormitories cement elsewhere. Wood findows.

Roof - live load 20 lbs. per square foot. "ind - 30 lbs. per square foot,

836 sq. ft.

sq. ft. sq. ft. sq. ft. sqi ft. sq. ft. sq. ft. sq. ft.

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R-17.03 Mess Hall: One-story, irregular shaped building.

Ground Area Covored		239
Floor Area		21,429
Cubic Contents Design data as follows:		415,114
	~	
Mess Hall (4) 972 seats.		11,926
Sculleries (2)		1,668
Cafetoria (2)		1,916
Galley (Capacity 2000)		2,729
Corridors		700
Refrigerated Storage		465
Mochanical "oom		180
Storage Rooms		592
Proparation Room		278
Garbage Room		
Butchers Room		278
Öffice		290
		118
Toilets and Gear		248

Toilets:

White: 2 water closets, i urinal, 1 lavatory. Colored: 2 water closets, 1 urinal, 1 lavatory.

General Construction:

Wood frame roof 8" hollow tile bearing walls with reinforced concrete pilastors and brick veneer, concrete floor slabs.

Foundations:

Concrete foundation walls and footings. Soil pressure 1,500 lbs. per square foot.

Finishes:

Concrete floors, plaster walls, fiber board and asbestos board ceilings, ashestos shingle roof, wood sash.

Dosign Loads:

Roof - live load 20 lbs. por square foot. Wind - 30 lbs. per square foot.

E-17.04 Administration Building: One-story T-shape.

Ground Area Covered: Floor Area	128' :
Cubic Contents	4,836 s
a ourcentes	79.016 ci

9' x 208' 9 sq. ft. 4 cu. ft. 6 sq. ft. 8 sq. ft. 6 sq. ft. 9 sq. ft. 0 sq. ft.
sq. ft.

sq. ft.

x 701 sq. ft. ,016 cu. ft.

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Design data as follows:

Lobby	182 sq. ft.
Offices (14)	3,135 sq. ft.
Corridors	670 sq. ft.
Storage and Closets	135 sq. ft.
officers Toilet	121 sq. ft.
Enlisted Women's Toilet	134 sq. ft.
Gear	49 sq. ft.
Recessed Entries (2)	103 sq. ft.
Toilets:	No. of the second se
Officers Toiler: 4 water	closets, 3 lavatorics.
Enlisted Women's Toilet:	4 water closets, 3 lavatories.

Gear: 1 service sink,

General Construction:

Wood roof frame, 8" hollow tile and 4" brick veneer bearing walls, Concrete floor slab.

Foundations:

Concrete foundation walls and footings for exterior walls, brick walls and concrete footings for interior walls. Soil pressure 1,500 lbs. per sq.ft.

Finishes:

Concrete floors, plaster walls, fiber board ceilings, asbestos shingle roof, wood sash.

Design Loads:

Roof - live load 20 pounds por square foot. Wind - 30 pounds por square foot.

E-17.05 Infirmary. One-story, irregular U-shaped building.

Ground Area Covered:		14
Floor Area:	•	14,96
Cubic Contents:		272,04
Design data as follows:		

Information Room	29
Examination and Treatment Rooms	80
Refraction Room	. 9
E. E. N. and T. Rooms	22
Chief Nurse's Bod and Bath Rooms	18
Senior Med. Office and Toilet	27
Physiotherapy Room	28
Surgical Work Room	11

82 sq. ft. 5 sq. ft. 0 sq. ft.

- 5 sq. ft.
- 1 sq. ft.
- 4 sq. ft.
- 9 sq. ft.
- 3 sq. ft.

45' x 228' 67 sq. ft. 43 cu. ft.

297 sq. ft. 00 sq. ft. 96 sq. ft. 27 sq. ft. 89 sq. ft. 77 sq. ft. 82 sq. ft. 18 sq. ft.

Sick Call Room 238 s Doctors: Offices (3) 644 s Pharmacy Room 183 s X-Ray and Dark Rooms 288 s O. O. D. Bed-and Bath Rooms 412 s Dontal Offices 367 s Nurse's Room 122 s Waiting Rooms 301 s Laboratory 157 s Ward and Porch 3,884 s Quiet Rooms and Bath 434 s Diot Kitchen 222 s Storage Rooms 313 s Linen Rooms and Closets 176 s Gear and Utility Rooms 203 s Ladies Toilet and Loungo 210 s Mard Toilet and Bath Rooms 308 s Sitz Room 51 s Lobby, Entries and Corridors 3,350 s Portico 200 s Ladies' Toilet: 3 water closets, 2 lawater Men's Toilet 3 water closets, 2 lawater Men's Toilet and Bath Rooms: 6 water closet Sitz Room 51 s Ladies' Toilet: 1 water closets, 1 urinal, 1 Ward Toilet and Bath Rooms: 2 showers, 8 1 Sitz Room; 1 lawatery, 1 sitz tub. O. O. D. Toilet and Bath Rooms: 2 showers, 1 Sitz Room; 1 lawater, 1 water closet, 1 lawater Treatment Room Toilet; 1 water closet, 1 lawater Senior Med. Office Toilet; 1 water closet, 1 lawater Quiet Room Bath and Toilet; 1 water closet, 1 water Lawatery, 1 lawatery, 1 sitz the Doctor's Office Toilet; 1 water closet, 1 mater Doctor's Office Toilet; 1 water closet, 1 mater Nord Stater Room Bath and Toilet; 1 water closet, 1 mater Stater Room Bath and Toilet; 1 water closet, 1 mater Senior Med. Office Toilet; 1 water closet, 1 mater Senior Med. Senior			
Doctors' Offices (3) Pharmacy Room X-Ray and Dark Rooms O. O. D. Bod-and Bath Rooms Dontal Offices Dontal Offices Waiting Rooms Laboratory Ward and Porch Ward and Porch Storage Rooms Linen Rooms and Closets Linen Rooms and Closets Ladies Toilet and Loungo Ladies Toilet and Bath Rooms Sitz Room Sitz Room Lobby, Entries and Corridors Portico Storage I toilet: 3 water closets, 2 lawator Mon's Toilet: 1 water closet, 1 urinal, 1 Ward Toilet and Bath Rooms: 6 water closet Sitz Room: 1 lawatory, 1 sitz tub. O. O. D. Toilet and Bath Rooms: 2 showers, 8 la Sitz Room: 1 lawatory, 1 sitz tub. O. O. D. Toilet and Bath Rooms: 2 showers, 1 lawatoric Treatment Room Toilet; 1 water closet, 1 lawatoric Chief Nurse's Toilet; 1 water closet, 1 lawatoric Chief Nurse's Toilet; 1 water closet, 1 lawatoric Senior Med. Office Toilet; 1 water closet, 1 lawatoric Senior Med. Office Toilet; 1 shower, 1 water Laboratoric Diate Room Bath and Toilet; 1 shower, 1 water Laboratoric Senior Med. Office Toilet; 1 shower, 1 water Laboratoric Senior Med. Office Toilet; 1 shower, 1 water Laboratoric Laboratory Sonior 1 lawatory, 1 sitz tub. Diate Room Bath and Toilet; 1 shower, 1 water closet, 1 lawatoric Senior Med. Office Toilet; 1 shower, 1 water closet, 1 lawatoric Senior Med. Office Toilet; 1 shower, 1 water closet, 1 lawatoric Senior Med. Office Toilet; 1 shower, 1 water closet, 1 lawatoric Senior Med. Office Toilet; 1 shower, 1 water closet, 1 lawatoric Senior Med. Office Toilet; 1 shower, 1 water closet, 1 lawatoric Senior Med. Office Toilet; 1 shower, 1 water Senior Med. Senior Seni		238	SC
Pharmacy Room183 setX-Ray and Dark Rooms288 set0. 0. D. Bod-and Bath Rooms412 setDental Offices367 setNurse's Room122 setWaiting Rooms301 setLaboratory157 setWard and Porch3,884 setQuiet Rooms and Bath434 setDiot Kitchen222 setStorage Rooms313 setLinen Rooms and Closets176 setGear and Utility Rooms203 setLadies Toilet and Loungo210 setMon's Toilet77 setWard Toilet and Bath Rooms308 setSitz Room51 setLobby, Entries and Corridors3,350 setPortico200 setMon's Toilet: 3 water closets, 2 lavatorMon's Toilet: 1 water closet, 1 urinal, 1Ward Toilet and Bath Rooms: 6 water closet2 showers, 8 1Sitz Room: 1 lavatory, 1 sitz tub.0. 0. D. Toilet and Bath Rooms: 2 showers,2 lavatorieTreatment Room Toilet; 1 water closet, 1 latChief Nurse's Toilet; 1 water closet, 1 latSenior Med. Office Toilet; 1 water closet, 1 latSenior Med. Office Toilet; 1 shower, 1 water	Doctors' Offices (3)		
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General Construction:

Wood roof trusses on 122" tile and brick veneer bearing walls. Conercte floor slab on tile base.

Poundations:

Concrete foundation walls and footings. Soil pressure 1,500# per sq.ft. Finishes:

Asbestos shingle roof, Keene Cement ceilings in all bath, toilet, Utility, gear rooms etc. fiber board ceilings elsewhere. Plaster walls, and coment floor.

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Roof - live load 20 lbs. per square foot. Wind - 30 lbs. per square foot.

E-17.06 Service Club and Post Exchange; Two-story central portion with one-story wings; building of irregular T shape.

Ground Area Covered	205	' x	861
First Floor Area	10,169	sq.	ft.
Second Floor Area	2,848	sq.	ft.
Total Floor Area	13,017	sq.	ft.
Cubic Contents	209,629	cu.	ft.
Design data as follows:			

First Floor:			
Lobby	653	sq.	f
Corridor and Stair halls	612	sq.	f
Sales space	2,538	sq.	f
Recreation Room	2,590	sq.	f
Office	175	sq.	f
Storage Rooms (3)	693	sq.	f
Men's Toilet	100	sq.	f
Women's Toilets (3) and Gear	405	sq.	f
Beauty Parlor	1,845	sq.	f
Receiving: Room	301	sq.	f

Second Floor: Library Stairs

2,686 sq. ft. 162 sq. ft.

Toilets:

Men's Toilet: 1 water closet, 2 urinals, 2 lavatories. Women's Toilet: 6 water closets, 3 lavatories. Women's Toilet: 1 water closet, 1 lavatory, 1 service sink. Women's Toilet: 1 water closet, 1 lavatory.

General Construction:

Wood roof frame. 8" hollow tile and 4" brick veneer bearing walls. Second floor reinforced concrete diagrid system, first floor concrete slab.

Foundations:

Concrete foundation walls and footings. Soil pressure 1,500% per sq.ft.

Finishes:

Concrete floors, plaster walls, fiber board ceilings, asbestos shingle roof, wood sash.

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Design Loads:

Roof - live laad 20 lbs. per square foot. Wind - 30 lbs. per square foot. Second Floor - 75 lbs. per square foot.

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E-17.07	Bachelor Officers Quarters: Two-sto:	ry irregular-
	Ground Area Covered	109' x 2
	First Floor Area	
	Second Floor Area	14,550 sq.
	Total Floor Area	13,320 sq.
		27,870 sq.
	Cubic Contents	395,084 cu.
	Design data as follows:	
	First Floor:	
	Public Lounge	1,515 sq.
	Private Lounge	297 sq.
	Bed Rooms (16 Officers and	
	l cook's & l ste-	- /
	wardess')	3,654 sq.
	Trunk Room	145 sq.
	Dining Room 128 seats	2,569 sq.
	Galley and Scullery	1,317 sq.
	Preparation Room	213 sq.
	Refrigeration Rooms	188 sq.
	Garbage Room	160 sq.
	Storage Room	232 sq.
	Mechanical Rooms	103 sq.
	Laundry, Bath, Toilet, and	
	Gear Rooms	1,236 sq.
	Coat & blanket closets and	
	phone booths-	138 sq.
	Vestibule, Lobby, corridors,	
	Stairs and Halls,	2,285 sq.
	Rear Porch	338 sq.
	Officers' Bath and Teilet Roc	m: 2 bath tu 7 water c
		ios.
	Public Toilet: 1 water close	
	Stewardese. ' Bath Room: 1 sho	wer, 1 water
	Women's Galley Toilot: 1 wate	r closet 2
	Mon's Galley Toilet: 1 water ics.	closet, 1 ur:
	Laundry Room: 6 laundry sinks	, Gear Rooms
	Second Floor:	
	Bed Rooms (36)	7,743 sq. :
	Trunk and storage Rooms :	358 sq. 1
	Linen and blanket closets	130 sq. 1
	Laundry, Bath, Toilet and	700 bđ. 1
	Goon Deems	

Gear Rooms

Mechanical Room

-shaped building. 2591 ft. ft. ft. . ft. ubs, 3 showers, colsets, 7 lavator-•У• closet, 1 lavalavatories. inal, 2 lavators: 1 slop sink each. ft. tt. ft. 1,801 sq. ft. 70 sq. ft.

Corridors, stairs and halls 2,827 sq. ft. Officers! toilet and bath rooms (cach); 2 bath tubs, 3 showers, 7 water closets, 7 lavatories. Laundry Rooms(cach): 6 laundry sinks. Gear Rooms: 1 slop sink oach.

General Construction!

Wood roof trusses on 122" tile and brick veneer bearing walls. Wood floor for second floor except laundry, bath, and toilet and gear rooms. which have concrete slab. First floor, concrete slab on fill.

Concrete slab roof over public lounge (diagrid system).

Foundations:

Concrete foundation walls and footings .. Soil pressure 1,500# per sq. foot.

Finishes:

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Built-up roof on rigid insulation over public lounge and asbestos shingle roof elsewhere.

First Floor: Cement ceilings in laundry, bath and toilet room, preparation room and men's galley toilet. Flexboard ceilings in garbage and mechanical rooms and mechanical closets. Fiberboard ceilings elsewhere. Cement plaster walls in laundry, bath and toilet rooms etc. Gypsum plaster elsewhere. Cement floor.

Second Floor: Flexboard ceilings in laundry, bath and toilet rooms, etc. fiberboard elsewhere. Cement floor in laundry bath and toilet rooms etc., wood elsewhere. Wall finishes same as first floor.

Design Loads:

Roof - live load 20 lbs. per square foot; Wind - 30 lbs. per square foot.

E-17.08 Warehouses: One-story rectangular shape.

Ground Area Covered	110
Floor Area Cubic Contents	3,440 \$
Clear Ceiling Height	49,005 0
corring norgho	9 1

General Construction:

bolid 8" brick bearing walls wood roof trusses spaced 6t 0" 0.C., concrete floor slab fill.

x 331 sq. ft. cu. ft. ft. 0 in.

Foundations:

Concrete walls and footings. Soil pressure 1,5007 per square foot.

Finishes:

Cement floor, asbestos shingle roof, wood windows.

Design Loads

Roof - live load 20 lbs. per square foot. Wind - 30 lbs. per square foot.

E-18. Beach Area.

E-18.01 Location: The area is located along the Atlantic Ocean, in the southeastern part of the reservation. Since October 1, 1942, the following types and numbers of buildings have been designed in this area.

- 3 "H" Type. Barracks
- 1 Mess Hall
- 2 School Buildings
- 1 Hoating Plant
- 1 Chlorinator House
- 2 Well Pump Houses

All of these buildings, with the exception of the two well pump houses, are on creosoted timber pile foundations. The piles are at 20 tons bearing value each. The floor system is of reinforced concrete beams and slabs.

E-18.02 "H" Type Barracks:

These buildings are the same as the "H" Type Labor Battalion Barracks in the Industrial Area, with the exception that they are on creosoted timber pile foundations, and the steam pits are in a different location. See E-4.14 for complete data.

E-18.03 Mess Hall

Same as Mess Hall at the Rifle Range except on creosoted timber pile foundations. See section E-13.04 for complete data.

E-18.04 School Buildings: One-story, rectangular-shaped buildings, one with 2 class rooms and the other with three. Similar to the 30 school buildings in the Division Training Area, except the walls are of tile, stucc-

ocd outside, and the whole building is on pile foundations. See E-2.02 for detailed description.

E-18.05 Heating Plant: One-story roctangular shaped building.

	nd Area Covered	4
	Area	97
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(E-18.02) (E - 18.03)(E-18.04) (E-18.05) (E-18.06) (E-18.07)

44' x 46' 76 sq. ft. 12,146 cu. ft.

Design data as follows:

Boiler room

General Construction:

Wood roof frame, 12" brick bearing walls with brick pilasters and concrete tie beam, at top of wall, stuccoed outside, reinforced concrete elaor slab and beams. Free standing trick stack,

Foundations

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Reinforced concrete beams on creosoted wood piles; the piles have a bearing value of 20 tons each.

Finishes:

Concrete floor, brick walls, ceiling open to roof, wood windows, roll roofing. Wood siding at gables.

Design Loads:

Roof - live load 20 lbs. per sq. ft. Wind - 30 lbs: per square foot.

E-18.06 Chlorinator House. One-story, rectangular building on piles.

11'
120 s
1,500 0
19 s

General Construction:

Wood frame roof on 8" tile bearing walls stuccoed, Concrete floor slab on creosoted timber piles.

Foundations:

Concrete beams and slab on timber piles; bearing capacity of piles 20 tons each.

Finishes:

Roll roofing; under side of roof sheathing as ceiling, unfinished tile walls, cement floor.

Design Loads:

Roof - live load 20 lbs. per square foot. Wind - 30 lbs. per square foot.

976 sq. ft.

x 16' sq. ft. cu. ft. sq. ft.

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E-18.07 Well Pump Houses.

Typo "G-I" rectangular building:

a und Area Covered		14
		148
		1.015
Cubic Contents		1,915
	Ground Area Covered Floor Area Cubit Contents	Floor Area

Type "H-I" One-story rectangular building.

Ground Area Covered	11
	81
Floor Area	1,293
Cubic Contents	-,

General Construction: (both types:)

Built-up roof on 13" brick bearing walls; concrete floor slab.

Foundations: (both types)

Concrete foundation walls.

Finishes: (both types)

Built-up roof; no ceiling, unfinished brick walls and cement floor.

Design Loads: (both types)

Roof - live load 20 lbs. per square foot. Wind - 30 lbs. per square foot.

E-19 Miscellaneous:

This section includes the Magazine Area and the Cemetery; no buildings have been designed in these areas during the period covered in this report.

14' x 16' sq. ft. cu. ft.

> 1 x 141 sq. ft. cu. ft.

CHAPTER E - PART II

E-20 - SCHEDULE OF BUILDINGS BY AREAS

		· · · · · · · · · · · · · · · · · · ·			E-20 - SCHEDULE
elere Misserie Vitaneeleri	• 11 • • • • • • • • • • • • • • • • •		and a second and a	<u>B-20.01</u> <u>F-234-A</u> P-234-A F-1505	Regimental Area Service Club St Post Exchange S Revisions to Me for M. C. W. R.
				E-20.02 F-234-A P-234-A P-1510 P-1509	Regimental Area Service Club St Post Exchange S Swimming Pool Bus Terminal
nde van die byd i'r Gene Pfillodianau ei geffiniau				E-20.03 P-234-A P-234-A P-1506	Regimental Area Service Club Sto Post Exchange St School Buildings
			·	<u>E-20.04</u> <u>P-234-A</u> P-234-A P-1506	Regimental Area Service Club Sto Post Exchange St School Buildings
	12" ^{- 2} 1 2 ⁻²	all production	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	E-20.05 P-234-A P-234-A P-1506 P-1510	Regimental Area Service Club Sto Post Exchange St School Buildings Swimming Pool
· · · · ·	1		This I all	<u>E-20.06</u>	Division Activit. None
		÷	and the second	B-20.07 P-153 P-1503 P-1501 P-1500 P-1507 P-234-A P-234-A P-1500-14 P-235 P-234-1 P-234-1 P-234-1 P-234-1 P-1513 P-1511	Camp Troops Activ Mark I Gunnery Tr Uniform Shop Post Dispensary W Grade and High So Plans prepared ch No. 27 into Photo Post Exchange Sto Hostess House Sto Sewage Pumping St Addition to Gate Radar Facilities Madar Facilities Amorican Red Gross Chemical Storage Treatment Plant

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1

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mental Area No. 1 ice Club Storehouse 1 Exchange Storehouse 1 sions to Mess Hall, Bn. Whse. M. C. W. R. 0 mental Area No. 2 Lce Club Storehouse 1 Exchange Storehouse 1 ning Pool 1 Cerminal 7 mental Area No. 3 ice Club Storehouse 1 Exchange Storehouse 1 l Buildings 10 iental Area No. 4 ce Club Storehouse. 1 Exchange Storehouse 1 1 Buildings 11 ental Area No. 5 ce Club Storehouse 1 Exchange Storehouse 1 1 Buildings 5 ing Pool 1 Ion Activities None Proops Activities Gunnery Trainer ٦ m Shop 1 Dispensary Warehouse 1 and High School 1 prepared changing Bn. Whse. into Photographic Shop 0 Exchange Storehouse ĩ s House Storehouse 1 Pumping Station No. 13 1 on to Gate House 0 Facilities Operating House 1 Facilities Heating Plant 1 an Red Gross Building 1 al Storage Building - Water

Totals 2 Á 12 13 8 11

- A			
		E-20.08	Supply and Industrial Area
	N. SALES LINES (19)		Tarchouse No. 1108
	and the second second second	P-1305	Warehouse No. 1606
		P=1305 P=1301	Lumber Drying Kiln
		P-1302	Paint and Oil Storage
A CONTRACTOR OF		P-1303-D)	a second sector in the second second
		P-1303-B)	Camp Communications Marchouse and Cable Platform
		P-1303-C	Camp Communications Storage Shed
		P-1306	Reclamation Storage Building
		P-1306	Reclamation Decontamination Building
		P-1308-1	Labor Battalion Barracks
		p-1308-2	Labor Battalion Mess Hall Labor Battalion Administration Building
1		P-1308-3 P-1308-4	Labor Battalion Post Exchange
		P-1309-1	Office Building*
		P-1309-2	Cafeteria*
		. P-108-11	Truck Loading Sheds
		P-1304 P-106-2A)	Extension to Laundry
		P-206-14)	Whse, #1101, 1201,1402 & 1501, Toilets
	a second s	William Contraction	added
		P-1312	Central Htg. Plant, Office & Storage
	A REAL PLANE AND A	· · · ·	Space Addition .
A		E-20.09	Naval Hospital
			TOPOLET THE PET OCT
	N N N N N N N N N N	P-410	Storage Garage
	a state of the second	P-400-1-22 P-2101	Transformer House
		P-2102	Acoustical Treatment - Naval Hospital Alterations to Ward 8
· · ·	· · · · · · · · · · · · · · · · · · ·	P-2100	Facilities for Waves, Rev. to Corps. Bks.
	a set and and set of the	E-20.10	Residential Area
		P-1600-1	Partice la la
		P-1600-2	Barracks for Mess Men Mashrooms for Mess Men
		P-1601	Swimming Pool
		<u>B-20,11</u>	
	and the second second second		Rifle Range
		P-1900-1	Colored Theone Damester
		P-1900-4 P-1900-5	Colored Troops Barracks Colored Troops Mess Hall
		2-1900-7	Colored Troops Administration Bldg.
			Toops Post Exchange & Barber
	. All and a second s	P-1900-2	5100
		P+1900-3	Colored Troops Washrooms Colored Troops Warehouse
			a troope har enouse
and the second	the second s		
	the second se		
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<u>81.01.01</u>					Rifle Range (Cont'd.)	
				B-20.11		
				P-1900-11	Colored Troops Heating Plant	1
				p-1901	School Buildings Post Exchange Storehouse	4
		and the second		P-234-A	Well No. S-1 and T-1 Houses	2
				P-1900-13	Sewage Pumping Station No. 11	1
				P-1900-14		-
	•	and we have a standay			Barrage Balloon and Amphibian Bas	
	5	an barn ann an Arna an Arna an Arna an		E-20.12	parrage barroon and Amphibian bas	D
				p-234-A	Post Exchange Storehouse	1
	-	a second s		P-2400	Bachelor Officers Quarters	1
	1		1		Deve shutha masteria A	
	•		- 1	E-20.13	Parachute Training Area	
	-		Sault-		None	
	i.					
			Part of the second			
			1.	E-20.14	Airport	
			· Carlos ·	P-2200	Lighter-Than-Air Facilities Build: (Construction Deferred)	ing l
÷ 2						
				E-20.15	White Cematory	
					mare como con y	
					None	
	7		and the second second			
				E-20.16	Tent Camp No. 1	
					TOTO Damp No. I	
	•				None	
			and the second second	E-20.17	March Grow M. D	
			···· • · · · · · · · · · · · · · · · ·		Tent Camp No. 2	
					None	
	*		·			
				E-20.18	Montford Point Area (Including Can	np Knox
		i ga stala			No.10 Jan 1 Jan 1	Ingenited Balance is its access
			1-1-1	P-234-A	Montford Point No. 1 Post Exchange Storehouse	2
		200 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100		P-500-14	Officers Washroom *	1
			1. M.C	P-500-2	Office and Tool Building (Sewage	+
		영제 이상 수 있는 것 같은 것 같	- Carl Street		Treatment Plant)	1
			-			
					North 1 P. L. L. C	
					Montford Point Camp No. 2	
				P-501-8	Platoon Barracks	19
				P=501-4-2	Enlisted Men's Mess Hall	15
		*		P-501-4-1	Officers' Mess and Demonstration	
					Building	1

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Totals 35 2 1 nox) 3

a large	(three) (L.C.		Montford Point Camp No. 2 (Contid.)
	<pre>double contract of appoint to a fit appoint for for for a fit contract of for a fit of a contract of a contract for a fit of the contract of for a fit of the contract of for a fit of a fit of the contract of the fit of the fit of the fit of the fit of the fit of the fit of the fit</pre>	11 84		P-501-14 P-501-15 P-501-16 P-502 P-501-7 P-501-2	Washrooms Administration Building Heating Plant Gun Sheds Warehouses Sewage Pumping Station No. 10
			A & Alatan		Montford Point Camp No. 24
			* 1 ** 7 *	P-1100-1 P-1100-4 P-1100-2 P-1100-9 P-1100-11 P-1100-13	Platoon Barracks Mess Hall and Post Exchange Washrooms Bachelor Officers' Quarters Heating Plant Well No. 2-2 and 2-3 Houses
					Montford Point Camp No. 3
1 [1			41 JA	P-1101-1 P-1101-4 P-1101-2 P-1101-5 P-1101-6	Platoon Barracks Mess Halls Washrooms Administration Building Infirmary
				P-1101-8 P-1101-10	Theater, Post Exchange and Barber Shop Brig
			11.2	P-1101-3 P-1101-19 P-1101-22 P-1101-21	Warehouses Hostess House Decontamination Building School Building
				P-1101-20 P-1101-23 P-1101-11 P-1103	Personnel Classification Building Gun Sheds Heating Plant Swimming Pool
				P-1101-13	Well No. 2-4 and No. 2-5 Houses
	 A state of the sta			P-1102-4	Camp Knox
				P-236-3 P-236-2 P-1102-14 P-236-3	Mess Hall Dog Hospital Dog Kennels Sewage Pumping Station No. 12
	and a second s		1×1-1	P-236-2	Dog Hospital Heating Plant Dog Kennels Heating Plant
	and an and an an an an and an and an		. 21.27	B-20.19	Peterfield Point Camp
					None

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Midway Park Residential Area None C.C.C. None Magazine Afeas None Mock-up None Marine Corps Women's Reserve Barracks Mess Hall Administration Building Infirmary Post Exchange and Service Club Officers' Quarters Warehouses Officers' Quarters Beach Area - Signal School Facili Well No. 22 and 23 Houses Barracks Mess Hall Heating Plant School Buildings Sewage Treatment Plant -Chlorinat House Total Build	None				
C.C.C. None Magazine Afeas None Mock-up None Marine Corps Women's Reserve Barracks Mess Hall Administration Building Infirmary Post Exchange and Service Club Officers' Quarters Warehouses Officers' Quarters Beach Area - Signal School Facili Well No. 22 and 23 Houses Barracks Mess Hall Heating Flant School Buildings Sewage Treatment Plant -Chlorinat House	Midway Parl	k Resid	ential	Area	
None Magazine Afeas None Mock-up None Marine Corps Women's Reserve Barracks Mess Hall Administration Building Infirmary Post Exchange and Service Club Officers' Quarters Warehouses Officers' Quarters Beach Area - Signal School Facili Well No. 22 and 23 Houses Barracks Mess Hall Heating Plant School Buildings Sewage Treatment Plant -Chlorinat House Total Build	None				
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None <u>Mock-up</u> None <u>Marine Corps Women's Reserve</u> Barracks Mess Hall Administration Building Infirmary Post Exchange and Service Club Officers' Quarters Warehouses Officers' Quarters Beach Area - Signal School Facili Well No. 22 and 23 Houses Barracks Mess Hall Heating Plant School Buildings Sewage Treatment Plant -Chlorinat House Total Build	None				
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Marine Corps Women's Reserve Barracks Mess Hall Administration Building Infirmary Post Exchange and Service Club Officers' Quarters Warehouses Officers' Quarters Beach Area - Signal School Facili Well No. 22 and 23 Houses Barracks Mess Hall Heating Plant School Buildings Sewage Treatment Plant -Chlorinat House	Mock-up				
Barracks Mess Hall Administration Building Infirmary Post Exchange and Service Club Officers' Quarters Warehouses Officers' Quarters Beach Area - Signal School Facili Well No. 22 and 23 Houses Barracks Mess Hall Heating Plant School Buildings Sewage Treatment Plant -Chlorinat House Total Build	None				
Barracks Mess Hall Administration Building Infirmary Post Exchange and Service Club Officers' Quarters Warehouses Officers' Quarters Beach Area - Signal School Facili Well No. 22 and 23 Houses Barracks Mess Hall Heating Plant School Buildings Sewage Treatment Plant -Chlorinat House Total Build	*				
Mess Hall Administration Building Infirmary Post Exchange and Service Club Officers' Quarters Warehouses Officers' Quarters Beach Area - Signal School Facili Well No. 22 and 23 Houses Barracks Mess Hall Heating Plant School Buildings Sewage Treatment Plant -Chlorinat House Total Build	Marine Cor	ps Wome	n's Res	erve	
Administration Building Infirmary Post Exchange and Service Club Officers' Quarters Warehouses Officers' Quarters Beach Area - Signal School Facili Well No. 22 and 23 Houses Barracks Mess Hall Heating Plant School Buildings Sewage Treatment Plant -Chlorinat House Total Build					
Infirmary Post Exchange and Service Club Officers' Quarters Warehouses Officers' Quarters Beach Area - Signal School Facili Well No. 22 and 23 Houses Barracks Mess Hall Heating Plant School Buildings Sewage Treatment Plant -Chlorinat House Total Build		tion Bu	ilding		
Officers' Quarters Warehouses Officers' Quarters Beach Area - Signal School Facili Well No. 22 and 23 Houses Barracks Mess Hall Heating Plant School Buildings Sewage Treatment Plant -Chlorinat House Total Build			Cia	- 01h	
Warehouses Officers' Quarters Beach Area - Signal School Facili Well No. 22 and 23 Houses Barracks Mess Hall Heating Plant School Buildings Sewage Treatment Plant -Chlorinat House Total Build				e ciub	
Beach Area - Signal School Facili Well No. 22 and 23 Houses Barracks Mess Hall Heating Plant School Buildings Sewage Treatment Plant -Chlorinat House Total Build					
Well No. 22 and 23 Houses Barracks Mess Hall Heating Plant School Buildings Sewage Treatment Plant -Chlorinat House Total Build	Officers' (Quarter	S		
Barracks Mess Hall Heating Plant School Buildings Sewage Treatment Plant -Chlorinat House Total Build	Beach Area	- Sign	al Soho	ol Fac	ili
Mess Hall Heating Plant School Buildings Sewage Treatment Plant -Chlorinat House Total Build		2 and 2	3 Hous	es	
Heating Flant School Buildings Sewage Treatment Plant -Chlorinat House Total Build					
School Buildings Sewage Treatment Plant -Chlorinat House Total Build		ant			
Sewage Treatment Plant -Chlorinat House Total Build					
	Sewage Tree		Plant -	Chlori	nat
			To	tal Bu	ild

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8-20.21

B-20.22

E-20-23

E-20.24

E-20.25

P-1200-1 P-1200-4 P-1200-5

P-1200-6 P-1200-7 P-1200-9

P-1200-3

P-1200-94

E-20.26

P-2300 P-2302-1 P-2302-4 P-2302-11 P-2302-21 P-2302-14

Grand Total

Homosote huts are not included. * Indicates buildings partially or wholly designed by others. Numerals preceded by "P" are Accounting Project Numbers.

Totals

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CHAPTER E - PART II

E-21 - SCHEDULE OF BUILDINGS BY TYPES

Barracks

ener Stear-Paul Jonanne-Jon an Read Republication	
Labor Battalion - Supply & Ind. Area	4
Mess Men -Residential Area	3
Colored Troops - Rifle Range	16
Lighter-Than-Air Facilities Building	
(Construction Deferred)	1
	19
Montford Point Area No. 2A - Platoon	5
	68
Marine Corps Women's Reserve	8
Signal School Facilities - Beach Area	3
Facilities for Waves - Revision to	
Corpsmen's Barracks	0
Mess Halls	
Labor Battalion Supply & Ind. Area	1
Colored Troops - Rifle Range	ī
M. P. Area No. 2 - Enlisted Men's	ī
Montford Point Area No. 2 - Officers'	-
Mess & Demonstration Bldg.	1
M. P. Area No. 2A - Mess Hall & P.X.	
Montford Point Area No. 3 - Mess Halls	1211
Camp Knox	1
Marine Corps Women's Reserve	1
Signal School Facilities - Beach Area	1
ATPUNT GAUGOT LOOTERATOR - DOUGH IT ON	*
Warehouses	
nai chouses	
Reg. Area No. 1 Service Club Storehouse	1
Regimental Area No. 1-P.X. Storehouse	1
Reg. Area No. 2 - Service Club Storehouse	
Regimental Area No. 2 - P.X. Storehouse	1
Reg. Area No. 3 - Service Club Storehouse	
Regimental Area No. 3 - P.X. Storehouse	1
Reg. Area No. 4 - Service Club Storehouse	
	1
Regimental Area No. 4 - P.A. Storehouse	
Reg. Area No. 5 - Service Club Storehouse	
Regimental Area No. 5 - P.Z. Storehouse	1
Post Dispensary Warehouse	1
Camp Troops Activities - P.X. Storehouse Camp Troops Activities - Hostess House	1
Storehouse	1
Sumply & Industrial area - Warehouse	

Supply & Industrial Area - Warehouse No. 1108

p-1308-1 P-1600-1 P-1900-1 p_2200 p-501-8 P-1100-1 p-1101-1 P-1200-1 P-2302-1 P-2100 E-21.02 P-1308-2 P-1900-4 P-501-4-2 P-501-4-1 P-1100-4 P-1101-4 P-1102-4 P-1200-4 P-2302-4 1 . + 1. 15 E-21.03 3-00 See 2.5 P-234-A 4 mm · P-234-A P-234-A . 11-1.S.S. ... P-234-A P-234-A P-234-A P-234-A P-234-A P-234-A P-234-A P-1501 P-234-A P-234-A

B-21.01

P-1305

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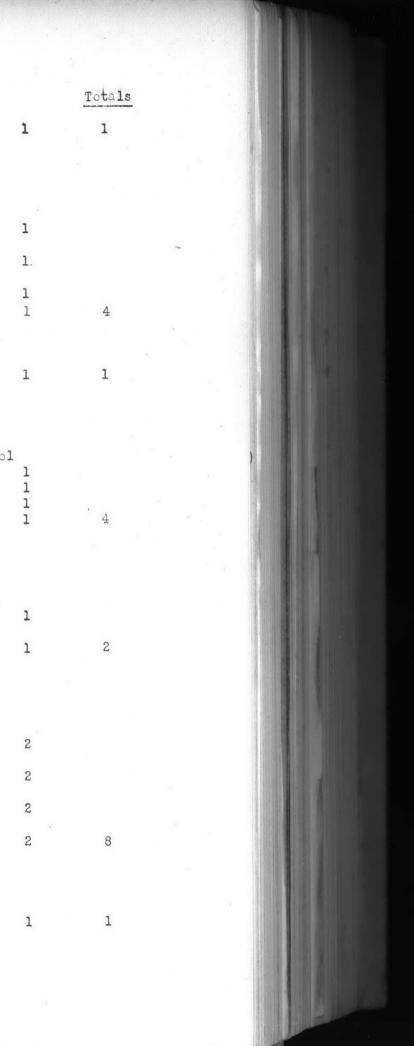
	1				
				Warehouse (Contid.)	Т
	The second se		B-21.03		
			P-1305	Supply and Industrial Area - Warehouse No. 1606 Supply and Industrial Area - Paint and Oil	1
	· · · · · · · · · · · · · · · · · · ·	i.	p-1302	Storage	2
		in it	P-1303-D)	Supply and Industrial Area-Camp Communications	٦
	11 11 11 11 11 11 11 11 11 11 11 11 11		p_1303-13)	Warehouse & Cable Platform Supply and Industrial Area-Camp Communications	1
			P+1303-C	Storage Shed	1
	the second se	ie.	p-1306	Supply and Industrial Area-Reclamation Storage	2
	The second se		· Jan Barris	Building Rifle Range Colored Troops Warehouse	1
	かいたい 行わせる 小無い 熟みたく かいにっかい しいぶれ 悪力 しもいわし 行い	- inte	P-1900-3	Rifle Range Post Exchange Storehouse	1
			P-234-A P-234-A	Balloon Barrage Post Exchange Storehouse	1
			p-234-A	Montford Point Camp No 1 - Post Exchange Storehouse	1
	A STATE OF A		P-501-7	Montford Point Camp No. 2 - Warehouses	2
			P-1101-3	Montford Point Camp No. 3 - Warehouses	2
			P-1200-3	Marine Corps Women's Reserve Warehouses Whse. Nos. 1101, 1201, 1402, and 1501, Toilets	4
	Figure 1. And the second se	in the second	P-106-2A) P-206-1A)	Added	0
			E-21.04	Infirmaries	
		af	P-1101-6	Montford Point Camp No. 3 - Infirmary	1
		- Levin Martin	P-1200-6	Marine Corps Women's Reserve - Infirmary	1
	and the second			the second s	
			E-21.05	Post Exchanges	
	i de la construcción de la constru An esta de la construcción de la co		P-1900-7	Rifle Range Colored Troops Post Exchange and Barber Shop	1
			P-1308-4	Supply & Industrial Area - Labor Battalion	-
		A CONTRACTOR		Post Exchange	1
			B-21.06	Theaters	
			P-1101-8	Mantford Drint Come No. 7 Theaten Doct Exchange	
				Montford Point Camp No. 3, Theater, Post Exchange & Barber Shop	1
	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	1.0			
			B-21.07	Service Clubs	
-					
			P-1200-7	Marine Corps Women's Reserve - Post Exchange &	1
				Service Club	1
	I month of the second second second second		E-21.08		
				Brigs	
	and a set of the second second second		P-1101-10	Montford Point Camp No. 3 - Brig	1
	14				
	*				

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Totals

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	a de la ser a s	B-21.09 Garages	
	s in ban shill a serie sector at a serie sector and	Naval Hospital Storage Garage	
		B-21.10 Bachelor Officers Quarters	
		thend Daint Rump No 24 Bachalon	
		officers Quarters	
		P-1200-9 Marine Corps Women's Reserve Officers' Quarters	
		Marine Corps Women's Reserve Officers'	
		Quarters	
	and the second	T=5400	
		B-21.11 Hostess House	
		P-1101-19 Montford Point Camp No. 3 - Hostess House	
		B-21.12 Sewage Pumping Stations	
	4. A set of the set	P-1500-14 Camp Troop Activities - Grade and High Sch	100
		Station No. 13 P-1900-14 Rifle Range Colored Troops Station No. 11	
		P-501-2 Montford Point Camp No. 2 Station No. 10	
		P-1102-14 Camp Knox Station No. 12	
		<u>B-21.13</u> Sewage Treatment Plants	
	a second	P-500-2 Montford Point Camp No. 1 - Office and Toc	1
		Building P-2302 Beach Area Signal School F cilities -	
		Chlorination House	
		B-21.14 Well Pump Houses	
		P-1900-13 Rifle Range Colored Troops Wolls Nos. S-1	
		P-1100-13 Montford Point Camp No. 2A Wells Nos Z2	
	A super light of the second	P-1101-13 Montford Point Camp No. 21 Wells Nos 2-2	
		Monord Forme Camp No. 5 Werrs Nos. 2.1	
		P-2300 Beach Area Signal School Facilities Wells	
		Nos. 22 and 23 Houses	
1	1	8-21.15 Transformer H	
		P-400-1-22 Novel Une it d. T.	
	ninger an Trans.	Naval Hospital Transformer House	
		- 958 -	



	i 1997 - Angeler Angeler 1997 - Angeler Angeler 1997 - Angeler Angeler 1997 - Angeler Angeler 1997 - Angeler Angeler Angeler	· · · · · · ·	B-21.16	Central Heating Plants
			and the second se	
	· · · · · · · · · · · · · · · · · · ·	·····	P-1900-11	Rifle Range Colored Troops Heating Plant
	the district states in the weather the states of the second		P-501-16	Montford Point Camp No. 2 Heating Plant Montford Point Camp No. 2A Heating Plant
	i. An an		P-1100-11	Montford Point Camp No. 3 Heating Plant
	and an ended to the week of	and the second sec	P-1101-11 P-236-3	Camp Knox Dog Hospital Heating Plant
			P-236-2	Camp Knox Dog Kennels Heating Plant
		A dea	P-2302=11	Beach Area Signal School Facilities
	a state of the second state of the			Heating Plant
		and the second second	P-234-1	Radar Facilities - Heating Plant
			P-1312	C. H. P Office & Storage Space Addition Enlisted Men's Washrooms
			<u>E-21.17</u>	MILISCEU Mell'S Washrooms
		a had	P-1600-2	Residential Area Washroom for Mess Men
		r. P. Martin	P-1900-2	Rifle Range Colored Troops Washrooms
			P-501-14	Montford Point Camp No. 2 Washrooms
J		A second for the	P-1100-2	Montford Point Camp No. 24 Washrooms
			P-1101-2	Montford Point Camp No. 3 Washrooms
		·		
			F 21 19	Officers' Washrooms
			E-21.18	Officers Washrooms
			P-500-14	Montford Point Camp No. 1 Officers! Washroom
		- Califier		· · · · · · · · · · · · · · · · · · ·
· · · · · ·		1 - Maria	E-21.19	Swimming Pools
			P-1510	Parimental trace No. 2
			P-1510 P-1510	Regimental Area No. 2 Regimental Area No. 5
		the second second	P-1601	Residential Area
		·	P-1103	Montford Foint Camp No. 3
		A CARLES	7.07.04	
			<u>E-21.20</u>	Bus Terminal
	and the second sec	the first	P-1509	Regimental Area No. 2
			+ 1000	Regimental Area No. 2
			E-21.21	School Buildings
				Manufacture and a second statement and and and and and and
			P-1506 P-1506	Regimental Area No. 3
			P-1506	Regimental Area No. 4
		- EGELAN	P-1901	Regimental Area No. 5
			P-1101-21	Rifle Range Montford Point No. 3
			P-2302-21	Beach Area Signal School Activities
			F-21 00	
		S. S.	E-21.22	Mark 1 Gunnery Trainer Buildings
			P-153	d . m
		- Imdiana		Camp Troops Activities
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			B-21.23	Uniform Shop	
BL JUL		in the second	and the local day	Camp Troop Activities	
		t and	P-1503	oump moop moonviolog	
				Grade and High School	
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u>B-21.24</u>	and and the second s	
4.			P-1500	Camp Troop Activities	
- <u>i</u>				mut disabén Star	
			<u>B-21.25</u>	Photographic Shop	
			P-1507	Plans Prepared Changing Battalion Warehouse No. 27 into Photographic Shop	
				No. 27 moo rhotographie Shop	
			E-21.26	Lumber Drying Kiln -	
× 105		in the second	P-1301	Supply and Industrial Area	
				Developing Developing	
	the second s		<u>B-21.27</u>	Decontamination Buildings	
	: a solution to the second state of the second state of the		P-1306 P-1101-22	Supply and Industrial Area - Reclamation Montford Point Camp No. 3	10.00
			F-1101-02	Monorord Forne Camp Mo. 5	
			E-21.28	Administration Buildings	
			P-1308-3	an a search an	
			P-1900-5	Supply and Industrial Area - Labor Battalion Rifle Range - Colored Troops	
	and the second		P-501-15 P-1101-5	Montford Point Camp No. 2 Montford Point Camp No. 3	
P			P-1200-5	Marine Corps Women's Reserve	• • •
	A STATE AND A STAT				
	a start		<u>B-21.29</u>	Office Building	
			P-1309-1	Supply and Industrial Area *	-
			E-21.30	Cafeteria	
	64		P-1309-2	Supply and Industrial Area *	-
					1
			<u>B-21,31</u>	Truck Loading Sheds	
24	A LAT & LAT & C ST		P-108-11		
			2.0	Supply and Industrial Area	S
			B-21.32	Gun Sheds	
			P-502 F-1101		
			P-1101-23	Montford Point Camp No. 2 Montford Point Camp No. 3	2 0
				Total No. 0	6
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No. 6 Marine Barracks New River, N. C. 4 June 1941 View of Saw Yard Fabricating Tent Decks Contract NOy-4750

E-21.33	Personnel Classification Building	
P-1101-20	Montford Point Camp No. 3	1
E-21.34	Dog Hospital	
P-236-3	Camp Knox	1
E-21.35	Dog Kennels	
P-236-2	Camp Knox	1
E-21.36	Operating House	
P-234-1	Radar Facilities Operating House	1
E-21.37	Additions	
P-235	Addition to Gate House, Camp Troops Activities	0
P-1304	Laundry Extension Supply & Ind. Area	0
E-21.38	American Red Cross Building	
P-1513	Camp Troop Activities	1
E-21.39	Revisions	
P-1505	Revisions to Mess Hall and Battalion	0
P-2101 P-2102	Whses. in Reg. Area No. 1 for M.C.W.R Acoustical Treatment for N. Hosp. Alterations to Ward 8, N. Hospital	0
E-21.40	Chemical Storage Building	
P-1511	Chemical Storage Building - Water Treatment Plant	1

Total Reported in Chapter E, Part II, Volume I

Grand Total

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Marine Barracks New River, N. C. December 1941 Regimental Area Typical Truscon Steel Framing for Barracks

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CHAPTER F - PART II

STRUCTURAL DEPARTMENT

The functions and responsibility of this department were outlined in Volume I of this report. The structural design work conformed to the specifications and directives enumerated in Volume I with the following modifications due to directives received subsequent to the time that report was written!

In conformity with the Bureau of Yards and Docks circular letter 355-42, dated December 12, 1942, the "W.P.B. National Emergency Specifications for the design of Reinforced Concrete Buildings" was adopted as the design specification for subsequent reinforced concrete work.

On November 1, 1943, in conformity with W. P. B. directive No. 29, the "National Emergency Specifications for the Design Fabrication and Brection of Stress Grade Lumbor and it's Fastening for Buildings" were adopted as the standard of design for timber structures.

The A. N. M. B. "List of Prohibited Itomsfor Construction Work" was followed for conservation of critical materials.



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CHAPTER G - PART II

MECHANICAL DEPARTMENT

G-1. Heating

G-1.01. General: The same design standards and considerations as were applicable in Chapter G-1 of Part II, Volume I of this report apply to the portion of the work covered by this chapter.

G-1.02. Heating of Buildings. During the period covered by Volume III of the report, the restrictions placed on critical materials became a very weighty factor in the design of heating of buildings. Many buildings had to be treated in the light of what articles of equipment were readily available at the time of design and contemplated installation; and as a result many of the designs reflect a compromise between the method of approach we would have liked to use and that permitted by conditions beyond our control. The basic fundamentals as set forth in Chapter G-1.02 of Part II, Volume I of this report apply to the work covered by this section. The major innovations introduced in the heating of buildings constructed during the period covered by this volume include the introduction of thermostatic control to prevent the over heating of such hot water generators as are installed in conjunction with condensation coolers and economizers; also the introduction of modulating type thermostatic control in conjunction with forced hot water heating systems. By using the type of control, wherein the temperature of the water is modulated in accordance with the action of an outdoor thermostat, we have been enabled to complete one radiator emissivity on the basis of 235 b.t.u. per square foot of surface, thereby effecting a real saving in installed radiation as well as a reduction in steam consumption.

Due to Bureau directives, scarcity of various critical items, economy programs, etc., we have been forced under this program to open up our specifications to admit the installation of some articles of equipment excluded by the specifications written under the program covered by Volumes I and II. Such changes in policy as have been made have in all cases been prompted by necessity or in the interest of the speedy com-

A study of the plans and specifications will disclose that in many of the buildings served with steam from a central heating plant, the return of condensate to the boiler house has been effected by means of the impulse of the traps connected to the various pieces of steam using equipment, and no condensation pumps have been installed. This type of installation was first made to expedite the completion of Montford Point Camp No. 2 and was continued after a successful trial period in the interest of economy and to expedite the work at hand,

G-1.03. Heating of Hot Water. In the program covered by this

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volume of the report, we called for the installation of instantaneous heaters in practically all instances where the cooling of high temperature drips was not a factor. This selection in design was prompted by the ready availability of the heaters and in the interest of conservation of oritical materials. Where the cooling of high temperature drips was a factor to be considered, we called for storage type water heaters, provided with an external condensate cooler. In this design we have provided thermal control to protect the hot water generator against overheating.

G-1.04. Heat for Process Use. Steam for process use has in general been supplied to galley equipment, sterilizers, decontaminators, the dry kiln, etc. The pressure at which the steam is furnished has been determined by manufacturers recommendation if available or by computed thermal requirements if no specific recommendations have been available.

G-1.05. Summary. A tabular summary follows which sets forth in detail, by project number, the buildings treated in our design, the number of buildings covered by each project, the type of heat supplied, the amount of heat in each building, and the amount of hot water and process load handled. This tabular summary also includes any changes made to work done in the period covered by Volumes I and TT.

ORIGINAL TENT CAMP # 1

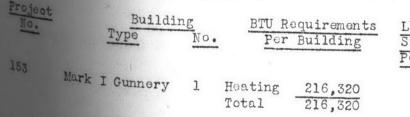
No changes or additions have been made to installations as covered by the tabular summary on pages #188 and #189 of Volume I except that we have under this portion of the program reversed the connections to the instantaneous water heaters. By passing the steam through the tube bundle and water through the shell, we have to a large extent remedied the rapid scaling condition which had been causing trouble. Insofar as we have been able to determine no loss in heater capacity has resulted from this change.

TENT CAMP # 2

No changes or additions have been made to installations as covered by the tabular summary on pages #189 and #190 of Volume I.

DIVISION TRAINING AREA

The following have been added to the installations covered by the summary on pages #190 through #197;



bs. of	Type
team	of
er Bdg.	System
	Centrol

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Central Heating Plant

Project No.	Buildin Type	No.		quirements Building
1200-1	Barracks M.C.W.R.	8	Heating Hot Water Process Total	1,225,490 1,660,000 182,000 3,067,490
1200-4	Mess Hall M.C.W.R.	1	Heating Hot Water Process Total	1,800,000 2,390,400 1,294,000 5,484,400
1200-5	Administration M.C.W.R.	1	Heating Hot Water Total	238,800 49,800 288,600
1200-6	Infirmary M.C.W.R.	1	Heating Hot Water Process Total	780,000 456,500 240,000 1,476,500
1200-7	Service Club & Post Exchange M.C.W.R.	1	Heating Hot Water Total	516,500 199,200 715,700
1200-9	B. O. Q. M.C.W.R.	2	Heating Hot Water Process Total	718,500 498,000 136,500 1,353,000
1301	Dry Kiln	1	Heating Total	3,282,000
1303-B	Post Communica- tion Facilities	1	Heating Hot Water Total	124,740 250,000 374,740
1304	Laundry Extension	1	Heating Total	377,000
1305	Warehouse #1108	1	Heating Hot Water Total	1,273,804 75,600 1,349,404
1306	Warehouse #1101		Installed Corps	by Marine
	Storage Building No. 1409 Decontamination	1	Heating Process Total	184,000 1,028,000 1,212,000

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Lbs. of Steam Per Bdg.	Type of System		
3409	Central Heating Plant		
6020	17		
300	n		
1607	17		
745	11		
1485	11		
3830	n		
382	11	÷	
394	11		
1463	n		
Estimated 1549	**		
1342	17		

		<u>:</u>		Project	<u>-1990</u>	No.		equirements Building	Lbs. of Steam Per Bdg.	Type of System
				1308-1	Barracks "H" Type Labor Batt:	4	Heating Not Water Total	1,359,360 622,500 1,981,860	2140	Central Heating Plant
**************************************	aj ^{na} p		andre andre	1308-2	Mess Hall Labor Batt.	1	Heating Hot Water Process Total	1,782,500 2,390,400 1,294,000 5,466,900	5990	17
			· · · · · ·	1308-3	Administration Labor Batt.	1	Heating Hot Water Total	226,400 19,934 246,334	271	17
	l _e st a			1308-4	Post Exchange Labor Batt.	1	Heating Hot Water Total	223,200 29,866 253,066	276	17
11 a	1. 17. jun			1309	Office Bldg.	1	Hot Water	1,628,000 60,000 1,688,000	1854	"
				1309	Cafetoria	1	Designed an Contractor	d Built by : s	Estimated 958	72
				1312	Addition to Central Heating Plant	1	Heating Total	13,442 13,442	143	Ħ
			arta ve		Grade & High School	1	Hot Water	2,074,600 70,550 2,145,150	Hot Wa Hot Wa	ter Boiler ter Heater
a a			and a second s		Uniform Shop	1	Heating Hot Water Total -	435,000 100,000 535,000	558	Central Heating Plant
11			antanti antai-product	1500	Area No. 1	11	Installed by	Contractors	Estimated 176	n
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 •			1 192 (C) 199	150-	Photographic Facilities		Heating Hot Water Total -	179,600 316,800 496,400		Central Heating Plant
*			a and the second		Bus Terminal	1	Heating Hot Water Total -	410,640 380,970 791,610	824	H
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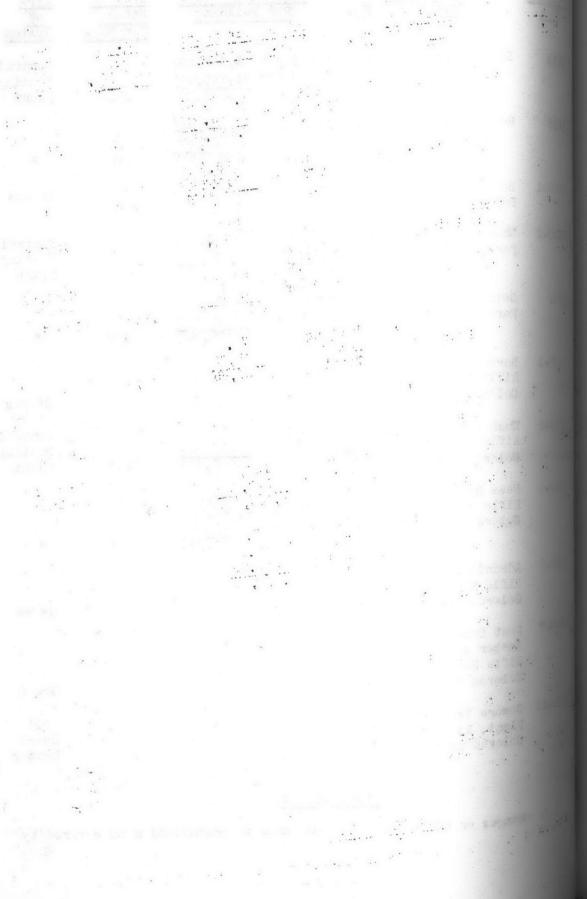
Lbs. of Steam Per Bdg.	Type of System
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Hot	Water	Boiler
Hot	Water	Heater

	Central
	Heating
558	Plant

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Provide No. Provide Store 100 Swimning Feel 2 Heating Store Store 100 Swimning Feel 2 Heating Store Store 101 Swimning Feel 2 Heating 185,542 Stores 1015 Ref Gross Bidg. 1 Heating 185,542 Stores 1000-1 Burnades 2 Stores Stores 1000-2 Mash Room 1 Heating 186,500 Control 1000-2 Mash Room 1 Heating 186,500 Control 1000-2 Mash Room 1 Heating 75,000 Bontral 1000-2 Mash Room 1 Heating 75,000 Iso Heating 1001 Swimsing Pool 1 Heating 120,000 Iso Heating 1001-1 Burnades 16 Stores Iso Stores Heating 1001-2 Mash Room 1 Heating 120,000 Gentral Heating 1001-3 Stores	•														
Protect Proper No. Por Bullding Steen Steen Steen 100 Swimning Pool 2 Heating 5,048,400 Gentral 101 Swimning Pool 2 Heating 1,485,000 4015 Plant 101 Bearnoks 1 Heating 188,542 Not Stores 100-1 Barroks 2 Stores Stores 100-2 Mak Room 1 Heating 188,500 Contral 100-3 Barroks 2 Stores Stores 100-4 Mak Room 1 Heating 188,500 Contral 100-5 Mak Room 1 Heating 188,500 Contral 1001 Swimming Pool 1 Heating 192,600 Hoating 1001 Swimming Pool 1 Heating 192,600 Hoating 1001 Swimming Pool 1 Heating 192,600 Hoating 1001 Barnods 16 Hoating 192,600 Hoating 1002-2 Thak Room									9-23 (1) 5-2 - - -	and a second	。 《唐书》:它 "我是不知道"	1 - 1 - 1 - 1 - 1		e 2 UTE na energia	
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ProductTypeNo.Per BulldingSteamof1610Swimming Pool2Hoating3,048,400Gentral1611Seinming Pool2Hoating1,465,00046151613Red Gross Bldg.1Hoating185,522316"1600-1parracks2Stores1186,520100-11600-2Mash Room1Hoating136,600Contral1600-3paradise Point1Hoating136,600Contral1601Swimming Pool1Heating75,00011501601Swimming Pool1Heating75,000132"1601Swimming Pool1Heating75,000132"1601Swimming Pool1Heating75,000132"1601Swimming Pool1Heating75,000132"1601Swimming Pool1Heating156,500100Contral1602-2Wash Room16Hooting135,500100Plant1602-3Mash Room16Hooting5tores150,600Stores1602-4Moss Hall1Heating100,000Total5tore1602-5Moss Hall1Heating5tore150,7005028"1602-6Colored CampFotal2,765,0005028""1602-7StoreStore160,100Store160,100Store		1. 1. j.	19					•				1 Activity			
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TypeNo.For BuildingSteamof For Edg.Swimming Pool2Hoating Hot Water Italia3,049,400 4,553,400 Hot Water ItaliaCentral Hot Water ItaliaRed Cross Bldg.1Heating Hot Water Italia108,542 Hot Water 10,000 TotalCentral Hot Water 10,000 Heating Fradise PointMash Room Paradise Point1Heating Hot Water Italia156,500 1000 1150Central Heating PlantSwimming Pool Paradise Point1Heating Hot Water Total156,500 10000 TotalCentral Heating PlantSwimming Pool Paradise Point1Heating Total156,500 TotalCentral Heating TotalSwimming Pool Paradise Point1Heating Total156,500 TotalCentral Heating TotalSwimming Pool Paradise Point1Heating Total156,500 TotalCentral Heating PlantSwimming Pool Paradise Point1Heating Total156,500 TotalGentral Heating PlantMash Room Fifle Range Colored Camp6Hoating Total156,500 TotalCentral Heating PlantMess Hall Fifle Range Colored Camp1Heating TotalStovesStove Colored Camp1Heating TotalStoveSowage Troatment 1 Plant, File Range Colored Camp0Stove Space HeaterSowage Troatment 1 Plant PlantOil Space HeaterStoveSowage Troatment 1 Plant	No		1900-14			1900-4	1900-2	1900-1	1601	1600-2	1600-1	1513	1510	Project No.	
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For BuildingSteamof SystemHeating3,048,400 1,485,000 TotalCentral Heating PlantHeating188,542 Het Water115,200 303,7424615Heating188,542 Het WaterStovesHeating136,500 115,200 TotalCentral Heating PlantHeating136,500 115,000 Heating TotalCentral Heating PlantHeating136,500 1,0046,500Central Heating PlantHeating75,000 1,0046,500Into PlantHeating75,000 Het Water 10,000 TotalGentral Heating PlantHeating136,500 10,000 TotalStovesHeating 100,000 Total136,500 1150PlantHeating Total136,500 1,005,500Into Heating PlantHeating Stoves592,000 3028"Stove Oftal2,760,000 2,760,0003028"FITAL AREAWe been made to installation as covered byHeater		and the property of	l ge		1.	1	6	16	1	1	2	1	2		
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SteamofFer Bdg.System4615Central Heating Plant316"316"316"150Central Heating Plant132"132"3028"3028"Stove011 Space Heater	e to install		×			1,365,000 592,000	910,000	×	75,000	910,000		188,542 115,200	1,485,000		
System Central Heating Plant " Stoves Central Heating Plant " Stoves Central Heating Plant " Stove Stove Oil Space Heater	lation as co					3028	1150		132	1150				Steam	
	overed by		Space	Stove	Stove	U	Heating	Stoves	Ħ	Heating			Central Heating	Type of System	
					×								~		



the tabular summary on pages #197, #198 and #199 of Volume 1 except the following - Heat installed in Boiler House:

Project	Building Type	No		equirements Building	Lbs. of Steam	Type of
A.C.	and the second se				Per Bdg.	System
Work Order No. 19	Boiler Plant	1	Heating Total	289,000	294	Central Heating Plant

MONTFORD POINT TENT CAMP NO. 1

No changes or additions have been made to installations as covered by the tabular summary on page #199 of Volume I.

GLIDER TRAINING BASE

No changes or additions have been made to installations as covered by the tabular summary on page #200 of Volume I. The following Lighter-Than-Air-Facilities were designed but not constructed.

Project No.	Building Type	No.		uirements uilding	Lbs. of Steam Fer Bdg.	Type of System
	ighter-Than-Air acilities	1	Heating Hot Water Total	175,900 50,000 225,900	-	Hot Water Boiler
	Constru	ction	of This Pro	ject Deferred		

PETERFIELD FOINT CAMP

No changes or additions have been made to installations as covered by the tabular summary on page #200 of Volume I.

MONTFORD FOINT CAMP NO. 2

The following summary covers installations made in the above camp and not included in Volumes I and II:

No.	Building Type	No.		uirements uilding	Lbs. of Steam	Type of
	Officer's Mess (Demonstration Bldg.)	1	Heating Hot Water Process Total	148,000 809,250 145,800 1,103,050	Fer Bdg.	System Central Heating Plant

project No.	Building Type	No:	BTU, Re Per	equirements Building	
501-4-2	Mess Hall	1	Heating Hot Water Process Total	803,000 1,365,000 592,000 2,760,000	
501-8	Barracks	19			
501-14	Wash Room	6	Heating Hot Water Total	136,500 910,000 1,046,500	
501-15	Administration	1	Heating Hot Water Total	199,800 83,100 282,900	

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MONTFORD POINT CAMP NO. 2A

The following summary covers installations made in the above camp and not included in Volumes I and II,

Project	Buildi	the set of the set	BTU Requirements
No.	Type	No.	Per Building
1109-1	Barracks	5	
1100-2	Wash Room	2	Heating 136,500 Hot Water 910,000 Total 1,046,500
1100-4	Mess Hall	1	Heating 880,890 Hot Water 996,000 Process 209,600 Total 2,086,490
1100-9	B. O. Q.	1	Heating 629,600 Hot Water 539,500 Process 127,300 Total 1,296,400

MONTFORD POINT CAMP NO. 3

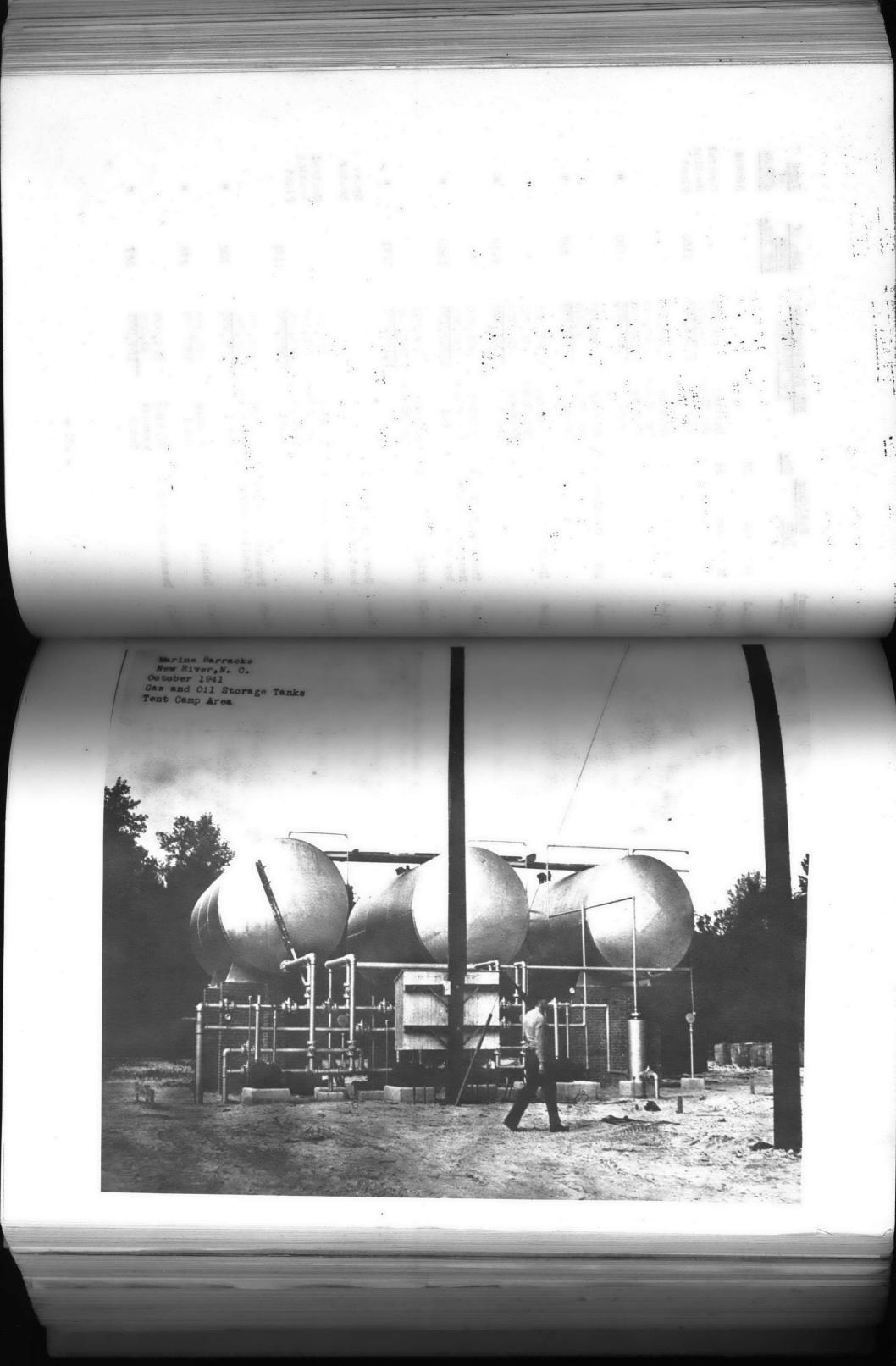
The following summary covers installations made in the above camp and not included in Volumes I and II:

Lbs. of Steam Per Bdg.	Type of System
3028	Central Heating Plant
1150	Stoves Central Heating Plant
310	tt.

Lbs. of Steam Per Bdg.	Type of System
	Stoves
1150	Central Heating Plant
2295	H
1422	11

									•	
	to the state			Project	Building Type	No.	BTU Requirements Per Building	Lbs. of Steam Per Bdg.	Type of System	
				1101-1	Barracks	68			Stoves	
1.10 ²¹¹⁷ 	and a second second	and the second sec		1101+2	Wash Room	24	Heating 136,50 Hot Water 910,00 Total 1,046,50	0	Central Heating Plant	
1999-1997 1993-1997	- ^{4 -} -	n an	i etiazi i	1101-4	Mess Hall	2	Heating 1,782,50 Hot Water 2,390,40 Process 1,294,00			
	6311		B stars States Verselands	1101-5	Administration	1	Total 5,466,90 Heating 303,70 Hot Water 59,760		H.	
	1 M.		1 - Linende Linner Strand	1101-6	Infirmary	1	Total 363,460 Heating 1,163,900 Hot Water 639,730 Process 427,700		п	
				1101-8	Theatre, Post Exchange & Bar- ber Shop	1	Total 2,231,330 Heating 1,851,200 Hot Water 460,800	2448	n	
Total Miles				1101-10		1	Total 2,312,100 Heating 408,900 Hot Water 747,000 1,155,900		11	
1 +	2. i.e. e		e en el constante de la consta		ment Plant	1	1,100,000	1271	Space Heater	
	$\{V_{i}\}_{i=1}^{n}$		e e e e e e e e e e e e e e e e e e e			1	Heating 465,000 Hot Water 261,000 Process 362,500 Total 1,088,500		Central Heating Plant	
	2991 61 - 1				Personnel Class. ification Bldg.		Heating 255,000 Hot Water 20,950 Total 275,950		n	
					Schools Decontamination		Heating 255,000 Total 255,000	275	11	
bar gara			ti aliculati di si		that ton		Heating 202,000 Process 55,000 Total 257,000	28 7	n	
	1. (1.)	್ಷ ಕಲ್ಲೇಶಿಕೆ ಬರ್ಗೆ ಸಿಸಿ								
						- 9	970 -			

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Project	Building	0.	BTU Requirements		
No:	Type N		Per Building		
1103	Swimming Pool	1	Heating 3,048,400 Hot Water 1,485,000 Total 4,533,400		

DOG TRAINING AREA

The following summary covers installations made in the above Area and not included in Volumes I and II:

236-2	Kennel	1	Heating Hot Water Total -	321,660 36,520 358,180
236-2	Infirmary	1	Heating Hot Water Total	115,200 36,520 151,720
1102-4	Mess Hall	1	Process	48,100

SIGNAL SCHOOL FACILITIES

The following summary covers installations made in connection with the above project and not included in Volumes I and II:

2302-1	Barracks "H"	3	Heating Hot Water Total	1,359,360 1,141,250 2,500,610
2302-4	Mess Hall	1	Heating Hot Water Process Total	803,000 1,365,000 592,000 2,760,000
2302-21	School	2	10041	2,100,000

G-2. Steam Distribution System.

G-2.01. General. Under the program covered by this volume of the report, extensive additions have been made to the existing steam distri-bution system in the Industrial Area and the Regimental Areas, as well as the addition of 5 entirely new systems located as follows: One to serve Montford Point Camp No. 2; one for Montford Point Camp No. 2A; one for Montford Point Camp No. 3; one for the Rifle Range Colored Camp and one for the Signal School Facilities.

Lbsi of Steam	Type
Per Bdg.	System
	Central
1. T	Heating
4715	Plant

Hot Water Boiler Electric

Hot Water Boiler Electric

50

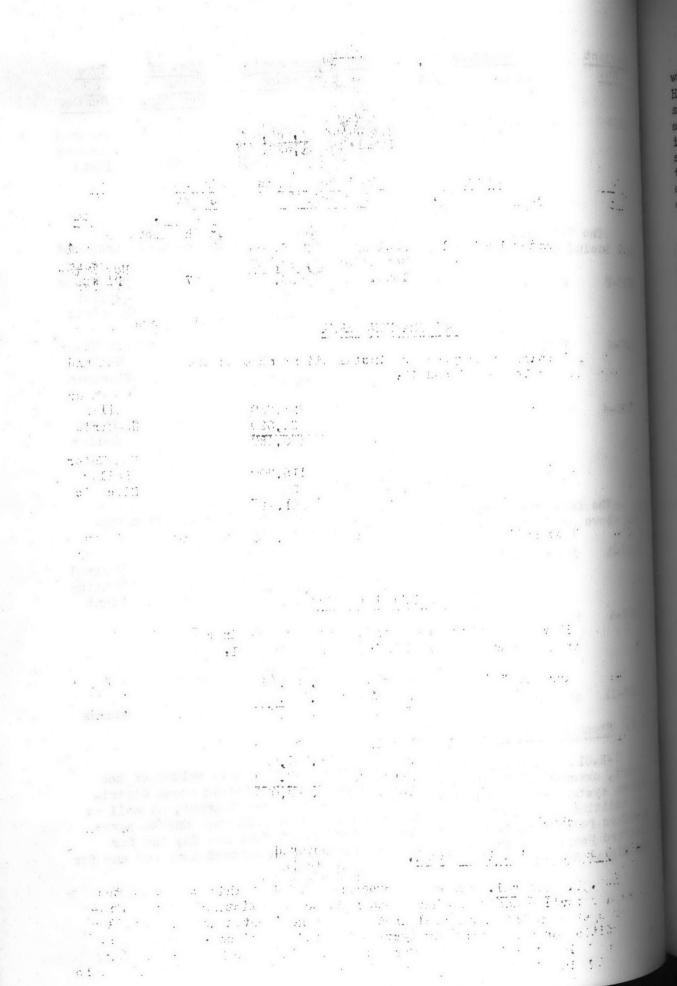
Steam Boiler

	Central
	Heating
2746	Plant

3028

11

Stoves



G-2:02: Industrial Area: In the Industrial Area the existing line was reinforced and extended to serve a new Labor Camp consisting of 1 Mess Hall, 4 Barradks; 1 Post Exchange and 1 Administration building and to Ball, 4 Barradks; 1 Post Exchange and 1 Administration building and to serve as well, an Office building, a Cafeteria, two Warehouses, a Dry Kiln, communication building and a Decontamination building. The line as now installed is sufficient in size to permit the future addition of considerable load. The actual future load which could be added depends on the point along the line where it might be added. It is safe to say however that a distributed load of up to 50,000 pounds can be added without offecting a critical pressure drop.

NEW STATES

There follows in tabular form a compilation of figures showing the estimated pressure drop, the estimated head against which the condensate return pumps may have to operate in the event of 100% pump operation at one time, and, an estimate of the losses occasioned by line condensation.

We have converted the line loss figure into a cash amount per year based on an assumed cost of steam of 35¢ per 1,000 pounds to show the importance of maintaining the lines in a good state of repair. In that one estimate is based on lines in a state of excellent repair, it can readily be seen that laxity in maintenance can cause the cost of distribution to rise tremendously.

lon a card a car	STEAM	PRESSURE DRC)P STUDY
		Length	Size
		173	8
			8
			8
			8
MH 136			
MH 138	20258	338	8
Whse. No.			0
1108	19511	321	8
MH 140	18048		8
MH 141	18048		8
	t 16499	1175	8
	and the second		
MH 142	14645	134	8
		223	6
1 Branch 2	9407	580	6
2 Branch 3	8860	195	. 6
3 MH 144		335	6
Barrack			
#1313	4280	161	4
a cover	2140	445	22
	5410		~
MH 130	8986	194	8
MH 170			4
	0002		
and the second s	389	387	22
Dane .	302	~ ~	-2
	m To MH 131 MH 133 MH 135 MH 136 MH 138 Whse. No. 1108 MH 140 MH 141 Office Fi MH 142 Branch 1 Branch 1 Branch 2 2 Branch 3 3 MH 144 Barrack #1313	STEAM To per hour To per hour MH 131 74020 MH 133 65034 MH 135 31367 MH 135 31367 MH 135 31367 MH 138 20258 Whse. No. 1108 1108 19511 MH 140 18048 MH 141 18048 Office Fit 16499 MH 142 14645 Branch 1 13687 Branch 2 9407 2 Branch 3 8860 3 3860 3 MH 144 4280 Barrack #1313 4280 Barrack #1314 2140 MH 130 8986 MH 139 MH 139 8632 Comm.	Image: STEAM FRESSORIC Data To per hour Length MH 131 74020 173 MH 133 65034 943 MH 135 51367 293 MH 135 31367 293 MH 135 20258 338 Mh 138 20258 338 Whse. No. 1108 19511 321 MH 140 18048 325 MH 141 18048 305 Office Fit 16499 1175 MH 142 14645 134 Branch 1 13687 223 Branch 1 13687 223 Branch 1 3860 195 MH 142 14645 134 Branch 3 8860 195 MH 144 4280 335 Barrack #1313 4280 161 Barrack #1314 2140 445 MH 130 8986 194 435 MH 139 8632

- 972 -

Final Pro Initial	Resultant
175	171.1
171.1	154.4
154.4	153.1
153.1	150.5
150.5	149.8
149.8	149.2
149.2	148.7
148.7	148.2
148.2	146.7
146.7	146.5
146.5	145.6
145.6	144.5
144.5	144.2
144.2	144.0
144.0	143.4
143.4	137.3
171.1	171.0
171.0	165.6
165.6	165.4

Run	-	Load 1bs	-			inal Pre		
rom	To	per hour		Length	Size	In	itial	Resultant
2.77	Anchor				1. 1. 1.			
H 133	Laundry	33667		214	8	1	54 4	153.3
andraz	MH 134	6850		233	4		53.3	151.3
aundry	Anchor	6850		218	4		51.3	149.4
H 134 nchor	Reclamation	2082		. 92	21		49.4	148.3
eclama-						-		110.0
tion	Decontam.	1511		165	21	1.	48.3	147.2
econtam.	P.X. Whse.	169		165	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		47.2	147.2
H 136	Cold Storage	9490		75	4	1	49:8	140 E
	MH 137	9423		255	4		48.5	148.5
old Stg.	Anchor	7874		312	4		44.2	144,2
H 137	Dry Kiln	3820		301	4			140.4
nchor ranch 1	Anchor	4280		161	4		40 • 4	139.5
nchor	Barrack #1109			445	21		45.6	145.0
Tettor	Darrack THOU	OTIO.		140	62	1	45.0	139.1
ranch 3	Mess Hall	4580		493	4	14	44.2	142.1
H 142	Cafe _	958		367	21	14	46.5	145.5
Run		ONDENSATE	f Cor	ndensate	An (1997)			Total
			f Cor	and the second se	Longth		JDY Static	Head in
rom	To L	Amount of	f Cor	ndensate	An (1997)			
rom HP	To L MH 131	Amount of	f Cor	ndensate	An (1997)		Static	Head in Feet
rom HP H 131	To L MH 131 MH 133	Amount of bs. per 1 73578 64433	f Cor	ndensate GPM	Length	Size	Static 75.5	Head in Feet 79.86
rom HP H 131 H 133	To L MH 131 MH 133 MH 135	Amount of bs. per 1 73578 64433 31367	f Cor	ndensate GPM 147.1	Longth 173	Size 4	Static 75,5 77.7	Head in Feet 79.86 100.63
rom IP H 131 H 133 H 135	To L MH 131 MH 133 MH 135 MH 136	Amount of bs. per 1 73578 64433 31367 29748	f Cor	147.1 128.8 62.7 59.5	Longth 173 943	Size 4 4	Static 75.5	Head in Feet 79.86 100.63 104.15
rom P H 131 H 133 H 135 H 136	To L MH 131 MH 133 MH 135 MH 136 MH 138	Amount of bs. per h 73578 64433 31367 29748 20258	f Cor	147.1 128.8 62.7	Longth 173 943 293	Size 4 4 4	Static 75.5 77.7 79.7 77.0	Head in Feet 79.86 100.63 104.15 104.47
rom HP H 131 H 133 H 135 H 136 H 138	To L MH 131 MH 133 MH 135 MH 136 MH 138 Whee #1108	Amount of bs. per 1 73578 64433 31367 29748 20258 19511	f Cor	147.1 128.8 62.7 59.5	Longth 173 943 293 643	Size 4 4 4	Static 75.5 77.7 79.7	Head in Feet 79.86 100.63 104.15
P H 131 H 133 H 135 H 135 H 136 H 138 H 138 H 138	To L MH 131 MH 133 MH 135 MH 135 MH 136 MH 138 Whse, #1108 MH 140	Amount of bs. per 1 73578 64433 31367 29748 20258 19511 18048	f Cor	147.1 128.8 62.7 59.5 40.6 39.2 36.1	Longth 173 943 293 643 338	Size 4 4 4 4 4 4	Static 75.5 77.7 79.7 77.0 78.0	Head in Feet 79.86 100.63 104.15 104.47 106.42 96.16
P H 131 H 133 H 135 H 136 H 136 H 138 H 138 H 140	To L MH 131 MH 133 MH 135 MH 136 MH 138 Whse. #1108 MH 140 MH 141	Amount of bs. per 1 73578 64433 31367 29748 20258 19511 18048 18048	f Cor	147.1 128.8 62.7 59.5 40.6 39.2	Longth 173 943 293 643 338 321	Size 4 4 4 4 4 4 4	Static 75.5 77.7 79.7 77.0 78.0 67.0 75.6	Head in Feet 79.86 100.63 104.15 104.47 106.42 96.16 105.38
rom HP H 131 H 133 H 135 H 136 H 138 H 138 H 138 H 140 H 141	To L MH 131 MH 133 MH 135 MH 136 MH 138 Whse. #1108 MH 140 MH 141 Office Fit	Amount of bs. per 1 73578 64433 31367 29748 20258 19511 18048 18048 18048 18048	f Cor	147.1 128.8 62.7 59.5 40.6 39.2 36.1 36.1 33.0	Longth 173 943 293 643 338 321 325	Size 4 4 4 4 4 4 4 4 4	Static 75.5 77.7 79.7 77.0 78.0 67.0	Head in Feet 79.86 100.63 104.15 104.47 106.42 96.16 105.38 103.56
rom #P H 131 H 133 H 135 H 136 H 138 hse.#1108 H 140 H 141 Pfice Fit	To L MH 131 MH 133 MH 135 MH 136 MH 138 Whse. #1108 MH 140 MH 141 Office Fit MH 142	Amount of bs. per f 73578 64433 31367 29748 20258 19511 18048 18048 16499 14645	f Cor	147.1 128.8 62.7 59.5 40.6 39.2 36.1 33.0 29.3	Long th 173 943 293 643 338 321 325 305	Size 4 4 4 4 4 4 4 4 4 4	Static 75.5 77.7 79.7 77.0 78.0 67.0 75.6 73.2	Head in Feet 79.86 100.63 104.15 104.47 106.42 96.16 105.38 103.56 108.24
P H 131 H 133 H 135 H 136 H 138 H 138 H 138 H 138 H 138 H 140 H 141 Mfice Fit H 142	To L MH 131 MH 133 MH 135 MH 135 MH 136 MH 138 Whse. #1108 MH 140 MH 141 Office Fit MH 142 Branch 1	Amount of bs. per 1 73578 64433 31367 29748 20258 19511 18048 18048 16499 14645 13687	f Cor	147.1 128.8 62.7 59.5 40.6 39.2 36.1 36.1 33.0	Longth 173 943 293 643 328 321 325 305 1175	Size 4 4 4 4 4 4 4 4 4 4 4 4	Statie 75.5 77.7 79.7 77.0 78.0 67.0 75.6 73.2 76.0	Head in Feet 79.86 100.63 104.15 104.47 106.42 96.16 105.38 103.56 108.24 105.21
P i 131 i 131 i 135 i 135 i 136 i 138 i 138 i 138 i 138 i 140 i 141 fice Fit i 142 'anch 1	To L MH 131 MH 133 MH 135 MH 135 MH 136 MH 138 Whse. #1108 MH 140 MH 141 Office Fit MH 142 Branch 1 Branch 2	Amount of bs. per 1 73578 64433 31367 29748 20258 19511 18048 18048 18048 16499 14645 13687 9407	f Cor	147.1 128.8 62.7 59.5 40.6 39.2 36.1 33.0 29.3	Longth 173 943 293 643 338 321 325 305 1175 134	Size 4 4 4 4 4 4 4 4 4 4 4 4 4	Static 75,5 77.7 79.7 77.0 78.0 67.0 75,6 73.2 76.0 72,8	Head in Feet 79.86 100.63 104.15 104.47 106.42 96.16 105.38 103.56 108.24 105.21 106.96
P i 131 I 133 i 135 i 135 i 136 I 138 i 138 i 138 i 138 i 138 i 140 i 141 frice Fit i 142 'anch 1 'anch 2 'anch 3	To L MH 131 MH 133 MH 135 MH 135 MH 136 MH 138 Whse. #1108 MH 140 MH 141 Office Fit MH 142 Branch 1 Branch 2 Branch 3	Amount of bs. per 1 73578 64433 31367 29748 20258 19511 18048 18048 18048 16499 14645 13687 9407 8860	f Cor	147.1 128.8 62.7 59.5 40.6 39.2 36.1 36.1 33.0 29.3 27.4 18.8 17.7	Longth 173 943 293 643 328 321 325 305 1175 134 223	Size 4 4 4 4 4 4 4 4 4 4 4 3 3 3	Static 75.5 77.7 79.7 77.0 78.0 67.0 75.6 73.2 76.0 72.8 73.5	Head in Feet 79.86 100.63 104.15 104.47 106.42 96.16 105.38 103.56 108.24 105.21
P H 131 H 133 H 135 H 136 H 138 H 138 H 138 H 140 H 141 Mfice Fit H 142 Manch 1 Manch 2 Manch 3 H 144	To L MH 131 MH 133 MH 135 MH 136 MH 138 Whse. #1108 MH 140 MH 141 Office Fit MH 142 Branch 1 Branch 2 Branch 3 MH 144	Amount of bs. per 1 73578 64433 31367 29748 20258 19511 18048 18048 18048 16499 14645 13687 9407 8860 4280	f Con nr .	147.1 128.8 62.7 59.5 40.6 39.2 36.1 36.1 33.0 29.3 27.4 18.8	Longth 173 943 293 643 325 325 305 1175 134 223 580	Size 4 4 4 4 4 4 4 4 4 4 3 3 3 3 3	Static 75.5 77.7 79.7 77.0 78.0 67.0 75.6 73.2 76.0 72.8 73.5 76.0	Head in Feet 79.86 100.63 104.15 104.47 106.42 96.16 105.38 103.56 108.24 105.21 106.96 110.81 106.92
rom HP H 131 H 133 H 135 H 136 H 138 H 138 H 138 H 140 H 141 ffice Fit H 142 Fanch 1 Canch 2 Fanch 3 H 144 Arrack	To L MH 131 MH 133 MH 135 MH 135 MH 136 MH 138 Whse. #1108 MH 140 MH 141 Office Fit MH 142 Branch 1 Branch 2 Branch 3 MH 144 Barrack #1313	Amount of bs. per 1 73578 64433 31367 29748 20258 19511 18048 18048 18048 16499 14645 13687 9407 8860	f Con nr .	147.1 128.8 62.7 59.5 40.6 39.2 36.1 36.1 33.0 29.3 27.4 18.8 17.7	Long th 173 943 293 643 325 305 1175 134 223 580 195	Size 4 4 4 4 4 4 4 4 4 4 4 3 3 3	Static 75.5 77.7 79.7 77.0 78.0 67.0 75.6 73.2 76.0 72.8 73.5 76.0 71.7	Head in Feet 79.86 100.63 104.15 104.47 106.42 96.16 105.38 103.56 108.24 105.21 106.96 110.81 106.92
rom HP H 131 H 133 H 135 H 136 H 138 H 136 H 138 H 140 H 141 Ffice Fit H 142 Fanch 1 Fanch 2 Fanch 3 H 144 Arrack #1313	To L MH 131 MH 133 MH 135 MH 136 MH 138 Whse. #1108 MH 140 MH 141 Office Fit MH 142 Branch 1 Branch 2 Branch 3 MH 144	Amount of bs. per 1 73578 64433 31367 29748 20258 19511 18048 18048 18048 16499 14645 13687 9407 8860 4280	f Con nr .	147.1 128.8 62.7 59.5 40.6 39.2 36.1 33.0 29.3 27.4 18.8 17.7 8.5	Long th 173 943 293 643 325 305 1175 134 223 580 195 335	Size 4 4 4 4 4 4 4 4	Static 75,5 77.7 79.7 77.0 78.0 67.0 75,6 73.2 76.0 72.8 73.5 76.0 71.7 70.7 70.7	Head in Feet 79.86 100.63 104.15 104.47 106.42 96.16 105.38 103.56 108.24 105.21 106.96 110.81 106.92 106.12 110.71
rom HP H 131 H 133 H 135 H 136 H 136 H 138 H 136 H 138 H 140 H 141 Mfice Fit H 142 Tanch 1 Tanch 2 Tanch 3 H 144 MFrack H 313 H 131	To L MH 131 MH 133 MH 135 MH 135 MH 136 MH 138 Whse. #1108 MH 140 MH 141 Office Fit MH 142 Branch 1 Branch 2 Branch 1 Branch 2 Branch 3 MH 144 Barrack #1313 Barrack #1314	Amount of bs. per 1 73578 64433 31367 29748 20258 19511 18048 18048 16499 14645 13687 9407 8860 4280 4280 2140	f Con nr .	147.1 128.8 62.7 59.5 40.6 39.2 36.1 36.1 33.0 29.3 27.4 18.8 17.7 8.5 8.5 8.5 4.3	Long th 173 943 293 643 325 325 305 1175 134 223 580 195 335 161 445	Size 4 4 4 4 4 4 4 4	Static 75.5 77.7 79.7 77.0 78.0 67.0 75.6 73.2 76.0 72.8 73.5 76.0 71.7 70.7 75.0 76.0	Head in Feet 79.86 100.63 104.15 104.47 106.42 96.16 105.38 103.56 108.24 105.21 106.96 110.81 106.92 106.12 110.71 112.02
rom HP H 131 H 133 H 135 H 136 H 138 H 136 H 138 H 140 H 141 Mice Fit H 142 Manch 1 Manch 2 Manch 1 Manch 2 Manch 3 H 144 Marrack H 131 H 135 H 136 H 138 H 140 H 141 H 141 H 141 H 142 H 142 H 142 H 142 H 142 H 144 H 145 H 144 H 145 H 144 H 131 H 130 H 130	To L MH 131 MH 133 MH 135 MH 135 MH 136 MH 138 Whse. #1108 MH 140 MH 141 Office Fit MH 142 Branch 1 Branch 2 Branch 3 MH 144 Barrack #1313 Barrack #1314 MH 130	Amount of bs. per 1 73578 64433 31367 29748 20258 19511 18048 18048 16499 14645 13687 9407 8860 4280 4280 2140 8986	f Con nr .	147.1 128.8 62.7 59.5 40.6 39.2 36.1 36.1 33.0 29.3 27.4 18.8 17.7 8.5 8.5 4.3 17.9	Long th 173 943 293 643 328 321 325 305 1175 134 223 580 195 335 161 445 194	Size 4 4 4 4 4 4 4 4	Static 75.5 77.7 79.7 77.0 78.0 67.0 75.6 73.2 76.0 72.8 73.5 76.0 71.7 70.7 75.0 76.0 76.0 74.3	Head in Feet 79.86 100.63 104.15 104.47 106.42 96.16 105.38 103.56 108.24 105.21 106.96 110.81 106.92 106.12 110.71 112.02 79.92
Run rom HP H 131 H 133 H 135 H 136 H 138 hse.#1108 H 138 hse.#1108 H 140 H 141 ffice Fit H 142 ranch 1 ranch 2 ranch 3 H 144 arrack #1313 H 144 H 130 H 130 H 139	To L MH 131 MH 133 MH 135 MH 135 MH 136 MH 138 Whse. #1108 MH 140 MH 141 Office Fit MH 142 Branch 1 Branch 2 Branch 1 Branch 2 Branch 3 MH 144 Barrack #1313 Barrack #1314	Amount of bs. per 1 73578 64433 31367 29748 20258 19511 18048 18048 16499 14645 13687 9407 8860 4280 4280 2140	f Con nr .	147.1 128.8 62.7 59.5 40.6 39.2 36.1 36.1 33.0 29.3 27.4 18.8 17.7 8.5 8.5 8.5 4.3	Long th 173 943 293 643 325 325 305 1175 134 223 580 195 335 161 445	Size 4 4 4 4 4 4 4 4	Static 75.5 77.7 79.7 77.0 78.0 67.0 75.6 73.2 76.0 72.8 73.5 76.0 71.7 70.7 75.0 76.0	Head in Feet 79.86 100.63 104.15 104.47 106.42 96.16 105.38 103.56 108.24 105.21 106.96 110.81 106.92 106.12 110.71 112.02

<pre>Add date and the second s</pre>	Run	To	Load 11 per hou
	MH 133 Laundry MH 134 Anchor Reclama- tion Decontam.	Anchor Laundry MH 134 Anchor Reclamation Decontam. P.X. Whse.	33667 6850 6850 2082 1511 169
 Milit and /ul>	MH 136 Cold Stg. MH 137 Anchor Branch 1 Anchor	Cold Storage MH 137 Anchor Dry Kiln Anchor Barrack #1109	9490 9423 7874 3820 4280 2140
	Branch 3	Mess Hall	4580
and and the second s And the second	MH 142	Cafe _	958
		C	ONDENSA

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Final Pre	ssure
Initial	Resultant
154.4	153.3
153.3	151.3
151.3	149.4
149.4	148.3
14813	147.2
147.2	147.2
149:8	148.5
148.5	144.2
144.2	140.4
140 .4	139.5
145.6	145.0
145.0	139.1
144.2	142.1
146.5	145.5

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Run		Amount of	Cond	lensate				
From		bs. per h	r .	'GPM	Length	Size	Static	Total Head in Feet
MH 133	Laundry	33066		6611	214	7	70 0	anne a dae ann ann a seachtar ann
Laundry	MH 134	5249		1615	233	3	79.0	106.88
MH 134	Anchor	5249		10.5	218	22	76:0 77.5	104.35
Anchor	Reclamation	471		0.9	92	22222	79.7	106.28 108.54
MH 136	Cold Storag	e 9490		19.0	75	07	And the second	
Cold Stg.		9423		18.8	255	2 2 2 2 2 2 2 2	77.5	105.42
MH 137	Anchor	7874		15.7	312	201	67.2	96.62
Anchor	Dry Kiln	3830		7.6	301	22 DI	75.3	106.06
Branch 1	Anchor	4280		8.5	161	22	69.0	100.09
Anchor	Barrack #110	9 2140		4.3	445	21	75.5	109.17
- 1 7					0	22	75.0	108.94
Branch 3	Mess Hall	4580		9.2	493	212	75.5	111.46
MH 142	Cafe	958		1.9	367	2월	75.7	108.22
		STEAM DIS	מד מיתיב	TIMTON				
		- DI	DINID	UTION L	OSSES			
Run of Pip	e Includes:							
	5,058 Lineal	F+ ol						
	1,333 "	Ft 8"		3,089	Lineal			
		+ 0		1,621	11	" - 2	211	
Losses:	and the set of the set							
	50.58 x 27 =	1365.66						
	13.33 x 21 =	279.93						
	30.89 x 14 =	432.46						
	16.21 x 9 =	145.89						
	Total	2223.94]	Lbs.	per hou	r			
2223.94 x 2	24 = 53374.56	the way i						
		Lus per de	y x	365 = 1	9,481,7	14.4 Lb	s. per Yes	ar
	10, ±01.71 x	35 = \$6,8	818.60	0				
G-2.03	Regimental lines have be							
nderground	Regimental lines have be ol in Area #2, lding, the Pus	Areas and	Hos	pital An	rea. Ir	the re	g imontal	0.2000 0
Training Po	ol in Area #2	en extend	ed to	o serve	the Red	l Cross	Building	areas
orne m	lines have be ol in Area #2, lding, the Bus 's Reserve Are l Administrati	Torminal	ng Po	ool in A	lrea #5,	the Ma	rk I Gunn	erv
uildin as	's Reserve Are	a compris	, 11 ing (Warehou	ses in	Area #1	and the	Marine
ain trunt-	lding, the Bus 's Reserve Are l Administrati line which for	on Buildin		Barrac	ks, 1 M	less Hal	1,2B.O	• Q.
upply the n	's Reserve Are l Administrati line which for Naval Hospital	merly terr	ninat	ed in A	e Club	and 1 I	nfirmary.	The
There f	`0]] our .			THE TOUR	Cite Ce	ntral H	eating Pla	ant.
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ill have	ollows in tab essure drop to which the cor	each of	the 1	newly a	dded bu:	ildings.	the esti	mated

against which the condensate return pumps in the Naval Hospital Area have to operate in the event of 100% pump operation at any one given

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time and an estimate covering the total distribution throughout the Division Training Area including the Industrial Area. The same comments as were made in Section G-2.02 as to the importance of proper maintenance of lines apply.

It will be noted in scanning the pressure drop study on the line leading to the Swimming Pool in Area #5 that a diversity or load factor of 60% has been used. At the time the swimming pool was located, it was brought out that the added load so located would overload the distribution mains. It was decided after consultation that the changing of water in the pool could be effected at night and that the pool would be in active use during periods when the remainder of the area was under light load conditions. In other words, men could not be using the pool and their other regimental facilities at the same time. Under this premise we have computed the pressure at the pool figuring on a 60% load factor which it will be noted results in a terminal pressure of 108.4 p.s.i. This pressure is more than ample and a further study has shown that a critical drop in pressure will not occur until a condition of approximately 80% full connected load is reached.

In the Condensation Return Friction Loss Study applying to the line from the Naval Hospital Area, it should be noted that in the event that all pumps operate at one instant the pumps in the Naval Hospital Area will have to operate against a head of 87.1 p.s.i. If this condition should ever exist, the house pumps in the Naval Hospital Area would be overloaded as they were specified to operate against 75 p.s.i. We, therefore, have augmented the installation in the Naval Hospital Boiler Flant to the end that the present boiler feed pumps will function automatically as the condensate return pumps for the entire hospital area.

TRUNK MAIN STEAM PRESSURE DROF STUDY

	r hour	Leng th	Size	Initial	Fressure Resultant
CHF TL 4 3 TL 4 TL 5 2 TL 5 TL 6 2 TL 5 TL 6 2 TL 5 TL 6 2 TL 6 TL 7 1 TL 7 Anchor 1 Anchor TL 8 1 TL 8 TL 9 1 TL 9 TL 10 1 TL 10 Branch 1 Branch TL 12 10 TL 12 TL 13 10 TL 13 TL 14 1 TL 14 TL 15 8 TL 15 TL 16 8	37568 98654 96388 81224 62421 61473 44073 27523 10621 06731 02337 91222 86828 84638 74726	1383 439 519 446 246 196 494 390 87 331 397 386 345 177 400	2-14 $2-14$ $2-14$ 14 14 14 12 12 12 12 12 12 12 12	175 163.8 160.8 157.3 152.7 150.8 149.1 143.5 139.9 139.3 137.1 134.6 132.7 131.1 130.3	163.8 160.8 157.3 152.7 150.8 149.1 143.5 139.9 139.3 137.1 134.6 132.7 131.1 130.3 126.7

			and the second s				
 A second s	Run From	То	Load Lbs. per hour	Length	Size	Final Initial	Pressure Resultant
<pre>interfact in the second of the second second in the second s</pre>	TL 18 Branch TL 19 B.O.Q. Hosp. Anchor Hosp.	Branch TL 19 B.O.AHosp Anchor-Hosp MH 153-Hosp	4570242126	210 255 2261 1526 314	10 10 10 10	124.8 123.8 122.6 114.2 108.4	123.8 122.6 114.2 108.4 104.9
and a second sec	TL 6 TL 20 TL 21 Branch TL 23 TL 24 TL 25 TL 27	TL 20 TL 21 Branch TL 23 TL 24 TL 25 TL 27 End of Trunk	MARINE CORPS W	360 246 297 463 388 195 724 659 OMEN'S RES	12 12 12 10 8 8 8 8 8	157.3 154.9 153.8 152.5 150.6 148.5 146.4 139.0	154.9 153.8 152.5 150.6 148.5 146.4 139.0 135.8
	TL 4 MHW 1 B #65 B #63 P.X.#62 B #60 B # 59	MHW 1 B # 65 B # 63 P • X • #62 B #60 B # 59 MHW 2	STEAM PRESS 35505 16949 13540 10131 9386 5977 2568	579 305 295 22 3 381 310 265	6 6 6 6 6 6 6	163,8 150.1 148.3 147.2 146.7 145.9 145.6	150.1 148.3 147.2 146.7 145.9 145.6 145.5
	LIHW 1 BA #50 B #51 B #53 M #54 B #55	MHW 2	16949 16649 13240 9831 3811 402	349 176 255 350 205 265	6 6 6 6 6	150.1 148.0 147.0 146.1 145.5 145.5	148.0 147.0 146.1 145.5 145.5 145.5
	B.O.Q.#58	B.O.Q. #58 B.O.Q. #67	2970 1485 NORTH SIDE O	286 537 F AREA #1	4 · 4	145.5 145.0	145.0 144.7
	B-14 B-15 Anchor	B-13 B-14 B-15 Anchor Anchor Red Cross	STEAM PRESSURE 11673 9728 7431 5486 674 316	261 475 90 170 510 492	5 5 4 4 2 2 2 2	126.7 124.4 121.5 120.4 119.2 118.4	124.4 121.5 120.4 119.2 118.4 118.2

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	s = =				1. N. 1.		testa di		TL 6	TL 6	295980	592.0		8
						:	···· / ·		TL 7	TL 7	1811.58	362.5	446	6
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									ant onor	TL 8	161407	323.0	196	6
÷., 1									TL 8	TL 9	144007	288.0	494	
									TL 9	TL 10	127457			6
					11 A				TL 10	Branch		255.0		6
									Branch	TL 12	110555	221.0		6
						*			TL 12	TL 13	106665	213.0		5
									TL 13	TL 14	102271	204.5		5
										-1 14	91156	182.2	386	5

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Final	Pressure
Initial	Resultant
174 0	100 8
134.6	128.7
128.7	128.3
100.1	120.0
150.8	150.1
150.1	149.1
100.1	149.1
148.5	148.4
	U • -

		ressure
Size	Initial	Resultant
6	135.8	134.9
6	134.9	131.9
6	131.9	130.5
6	130.5	128.5
5	128.5	126.6
5	126.6	122.8
5	122.8	121.5
5	121.5	120.2
3	120.2	115.5
3	115.5	115.1
3	115.1	109.0
4	109.0	108.4

Static	Total Head in Feet
73.6	93.5
74.4	99.4
74.8	105.6
75.5	114.7
76.1	119.0
76.5	122.3
78.2	129.9
79.2	134.7
79.4	135.4
79.8	141.2
81.3	148.9
80.0	152.4

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ToLbs. per hr.GPMLengthSizeStaticin FeetL 14TL 1586762173.5345576.7153.0L 15TL 1684572169.0177575.0153.2L 16TL 1774660149.3400578.1159.8L 16TL 1860471120.8316579.0162.5L 17TL 1860471120.8316579.0162.5L 18Branch53680107.2210578.6163.1renchTL 1951835103.5255578.0163.7L 19B.O.AHosp.4669293.32261576.2170.0.o. Q.Anchor-Hosp.4563691.31526589.4188.5	Run		Amount of C	ondensate				Total Hea	
Life TL 15 86762 173.5 345 5 76.7 153.0 Life TL 16 64572 169.0 177 5 75.0 153.2 Life TL 17 74660 149.3 400 5 78.1 159.8 Life TL 18 60471 120.8 316 5 79.0 162.5 Life TL 19 51835 103.5 210 5 78.6 163.7 TL 19 51835 103.5 2261 5 76.2 170.0 . 0. Q. Machor-Hosp.45636 91.3 1526 5 89.4 188.5 mahor Rosp. NH 153-Hosp.42060 84.0 314 3 90.5 201.0 REGIMENTAL AREA STEAM DISTRIBUTION LOSSES an of Pipe Includes: 3,787 X 34.0 = 151.48 8.30 x 14.0 = 116.20 26.49 x 9.0 = 238.41 25.46 x " " - 2 th 24.92 x 21.0 = 523.32 IZI0.18 Lbs. per hour MU0.16 x 24 hrs. = 29044.32 Lbs. per day = 10,601,176.8 Lbs. per Year Monthal (from original report) 562 = 4,940,000 additional Mark (from original report) 11194 Lbs. per Hr. = 98,000,000 additional Mark (from original report) 11194 Lbs. per Hr. = 105,601,177 Total - 12966 Lbs. per Hr. = 105,601,177 Lbs. F Year 113,541,177 x .35 = \$39,739.41 Regimental Area \$39,739.41 Industrial Area \$39,739.41 Industrial Area \$39,739.41 Industrial Area \$39,739.41 Industrial Area \$39,739.41 Noted Area \$46,658.01 Xet Area \$4		To	Lbs. per hr.	GPM	Length	Size	Static	in Feet	
L15 TL 16 64572 169.0 177 5 75.0 153.2 L16 TL 17 74660 149.3 400 5 78.1 159.6 L17 TL 18 60471 120.8 316 5 79.0 162.5 L18 Branch 53680 107.2 210 5 78.6 163.1 ranch TL 19 51835 103.5 255 5 78.0 163.7 L19 B.O.AHosp.46692 93.3 2261 5 76.2 170.0 .0. 0. Bosp: Anchor-Hosp.45636 91.3 1526 5 89.4 188.5 nohor HN 153-Hosp.42060 84.0 314 3 90.5 201.0 REGUMENTAL AREA STEAM DISTRIBUTION LOSSES an of Pipe Includes: 3,767 Lineal Ft 10" 330 Lineal Ft 4" 2,492 " " - 6 " 2649 " " - 2 ^H 2546 x 7.1 = 180.77 24.92 x 21.0 = 523.32 1210.18 Lbs. per hour 1210.18 x 24 hrs. = 29044.32 Lbs. per day = 10,601,176.8 Lbs. per Year Total - 12966 Lbs. per Hr. = 98,000,000 additional 113,541,177 x .35 = \$39,739.41 Near Area (from original report) 552 10.0 13,541,177 x .35 = \$39,739.41 Near Area (from original Area \$39,739.41 Near Area (from area \$39,739			90709	177 5	TAE	-		157 0	
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$ \begin{bmatrix} 16 & \text{Branch} & 53660 & 10^{1}.2 & 210 & 5 & 78.0 & 163.7 \\ \text{randh} & \text{TL} & 19 & 51835 & 103.5 & 255 & 5 & 78.0 & 163.7 \\ \text{I.19} & \text{D.0.4Hosp.45636} & 91.3 & 1526 & 5 & 89.4 & 188.5 \\ \text{meher} & \text{MH} & 153-\text{Hosp.42060} & 84.0 & 314 & 3 & 90.5 & 201.0 \\ \hline & & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ &$	17	TL 18		120.8	316		79.0	162.5	
The first term of the second	1 18		53680	107.2	210	5	78.6	163.1	
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construction has been used as that which constitutes the original installa-tion. The line to the Naval Hospital Area is the only exception to the

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above general statement. In designing the line to the Hospital Area we diverged from the general rule in the interest of economy, and ran that portion of the line which is concealed by shrubs or trees on piers and poles.

G-2.05. Montford Point Camp No. 2. The distribution system serving Montford Point Camp No. 2 is a new system serving 1 Mess Hall, 1 Demonstration Building, 6 Washrooms and 1 Administration Building.

The system is of aerial construction, pole line type, and serves the buildings with steam at nominally 50 p.s.i. pressure. The returning condensate line discharges into a vented receiver in the boiler plant and is therefore under only the static head pressure plus such additional pressure as is caused by line friction.

There follows in tabular form a compilation of figures showing the estimated pressure drop to each of the buildings served, the total head against which the return traps must operate and an estimate of the line losses throughout the system. The line losses are again resolved into a cash figure to show the importance of maintaining the lines in a state of perfect repair .

STEAM PRESSURE DROP STUDY

R	un To	Load Lbs. per Hour	Length	Size
CHP	Branch	6900	134	5
Branch	207 WR	3450	87	4
207	206	2300	174	
206	205	1150	111	4 212
Branch	WR 208	3450	108	4
208	209	2300	174	4
209	210	1150	111	4 2 ¹ / ₂
CHP	Branch	4548	99	
Branch	Adm.	1520	10	5
Adm.	Demonstration		181	5 7/02-1/02 22 22
Branch	Mess	3028	241	~ 4 "

		CONDENSATE RE	ETURN FRI	CTION LO	OSS STU	DY	
From	un To	Amount of Co Lbs. per hr,		Length	Size	Static	Total Head in Feet
CHP Branch 207 206	Branch WR 207 206 205	6900 3450 2300 1150	13.8 6.9 4.6 2.3	111 174 87 134	2 2 2 2 2 2	0.5 19.5 20.0 20.0	0.75 19.93 20.49 20.54

Initial	Resultant
55	54.2
54.2	53.7
53.7	53.4
53.4	52.4
54.2	53.6
53.6	53.2
53.2	52,3
55	54.7
54.7	54.59
54.6	52.9
54.7	53.6

Final Fressure

Rui		mount of Cond s. per hr.	lensate GPM	Longth	Size	Static	Total Head in Feet
Branch	208	3450	619	111	22222	18.5	18.86
WR 208	209	2300	416	174		19.0	19.48
209	210	1150	213	111		19.0	19.54
CHP	Branch	4548	9.09	99	2 2 2 2	0.5	0.65
Branch	Adm.	1520	3.04	10		10.5	10.66
Adm.	Demonstration	1210	2.42	181		15.8	16.02
Branch	Mess Hall	3028	6.07	241	21	15.1	15.47

STEAM DISTRIBUTION LOSSES

Run of Pipe Includes:

NUU			5"	TIU	Lineal	F U.	-	60
784	11	-	4 tt					22

Losses:

2.33 x 13 = 30.29
$7.84 \times 11.2 = 87.81$
$4.13 \times 8.0 = 33.04$
151.14 Lbs. per Hour
151.14 x 24 = 3627.36 Lbs per Day
3627.36 x 365 = 1,323,986.4 Lbs. per Year
1,323.99 x \$.35 = \$463.40

G-2.06. Montford Point Camp No. 2A. The distribution system serving Montford Point Camp No. 2A is a new system serving 1 Mess Hall and Post Exchange Building, 2 Washrooms and 1 B. O. Q. Building.

The system is of aerial construction, pole line type, and serves the buildings with steam at nominally 50 p.s.i. pressure. The returning condensate line discharges into a vented receiver in the boiler plant and is therefore under only the static head pressure plus such additional pressure as is caused by line friction.

There follows in tabular form a compilation of figures showing the estimated pressure drop to each of the buildings served, the total head against which the return traps must operate and an estimate of the line losses throughout the system. The line losses are again resolved into a cash figure to show the importance of maintaining the lines in a state of perfect repair.

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STEAM PRESSURE DROP STUDY

Ru		Load Lbs 1			Final F	ressure
From	To	per Hour	Length	Size	Initial	Resultant
CHF Branch WR 238	Branch WR 238 WR 239	4595 2300 1150	257 81 197	4 3 3	55 52.7 51.8	52.68 51.84 51.31
Branch	Mess Hall	2295	228	3	52.7	. 50.35
CHP	B. O. Q.	1422	354	212	125	122.7

CONDENSATE RETURN FRICTION LOSS STUDY

n To	Amount of Con Lbs. per hr.	ndensate GPM	Length	Size	Static	Total Head in Feet
Branch WR 238 WR 239	4595 2300 1150	9.2 4.6 2.3	257 81 197	222222	0.8 8.8 9.3	1.16 9.22 9.79
Mess Hall	2295	4.6	228	21/2	14.8	15.32
B.O.Q.	1422	2.8	354	212	23.25	23.39
	To Branch WR 238 WR 239 Mess Hall	To Lbs. per hr. Branch 4595 WR 238 2300 WR 239 1150 Mess Hall 2295	To Lbs. per hr. GPM Branch 4595 9.2 WR 238 2300 4.6 WR 239 1150 2.3 Mess Hall 2295 4.6	To Lbs. per hr. GPM Length Branch 4595 9.2 257 WR 238 2300 4.6 81 VR 239 1150 2.3 197 Mess Hall 2295 4.6 228	ToLbs. per hr.GPMLengthSizeBranch45959.2257 $2\frac{1}{2}$ WR 23823004.681 $2\frac{1}{2}$ WR 23911502.3197 $2\frac{1}{2}$ Mess Hall22954.6228 $2\frac{1}{2}$	ToLbs. per hr.GPMLengthSizeStaticBranch45959.2257 $2\frac{1}{2}$ 0.8WR 23823004.681 $2\frac{1}{2}$ 8.8WR 23911502.3197 $2\frac{1}{2}$ 9.3Mess Hall22954.6228 $2\frac{1}{2}$ 14.8

STEAM DISTRIBUTION LOSSES

Run of Pipe Includes:

Losses.

257 506	Lineal "	Feet "	411 311	354	Lineal	F
0	die					

2.57 x 11.2 = 28.78 5.06 x 9.2 = 46.55 3.54 x 10.6 = 37.52 112.85 Lbs. per Hour

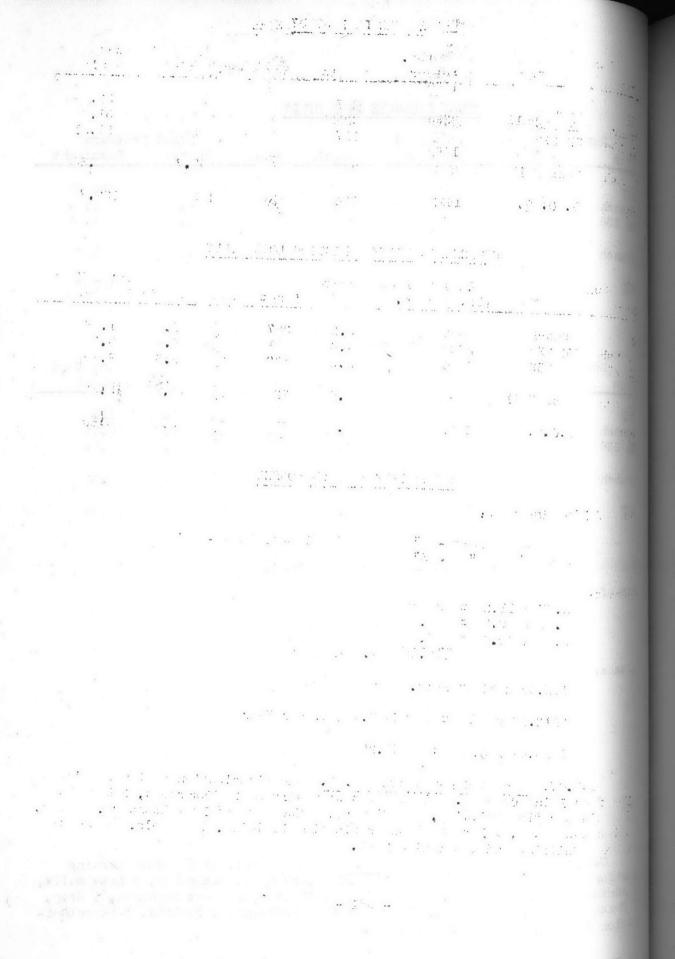
112.85 x 24 = 2812.16 Lbs per Day

2812.16 x 365 = 1026438.4 Lbs. per Year

1026.44 x \$.35 = \$359.25

G-2.07. Montford Point Camp No. 3. The distribution system serving Montford Point Camp No. 3 is a new system serving 24 Washrooms, 2 Mess Halls, Administration Building, 1 Infirmary, 1 Theater and Post Exchange, 1 Brig, 1 Hostess House, 1 Personnel Classification Building, 4 Schools, 1 Decontamimation Building and 1 Swimming Pool.

Feet - 23"



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The system is of aerial construction, pole line type, and serves the mildings with steam at nominally 125 p.s.i. The returning condensate line discharges into a vented receiver and is therefore under only the static head pressure plus such additional pressure as is caused by line friction.

There follows in tabular form, a compilation of figures showing the estimated pressure drop to each of the buildings served, the total head against which the return traps and pumps must operate and an estimate of the line losses throughout the system. The line losses are again resolved into a cash figure to show the importance of maintaining the lines in a state of perfect repair.

In reviewing the Steam Fressure Drop Study, it will be noted that a diversity or load factor has been used. This was done as in Regimental area No. 5 due to the location of and the character of the load in the Swimming Fool. We wish here to state that without the Swimming Pool the lowest estimated pressure in the Montford Point Camp No. 3 Area is estimated to be 93 p.s.i.

Under this program a tie line has been installed to connect the Montford Foint #1 camp to the Montford Foint No. 3 distribution system. It is likely with normal present load conditions that the Montford Point No. 1 boiler plant can be closed down and held as a standby unit.

STEAM FRESSURE DROF STUDY

Ru From	n To	Load Lbs. per Hour			Size	Final Initial	Pressure Resultant
From CHP Branch 613 612 606 601 Mess Hal 419 415 414 408 402 401 Brig Branch Theater Branch Branch	Branch VR 613 612 606 601 Mess Hall			Long th 120 243 143 139 169 138 407 162 133 138 165 122 518 454 137 694 557	666666655555444	Initial 125 123.4 120.6 119.0 117.5 115.8 114.5 111.7 110.7 108.6 106.6 104.4 102.9 97.2 92.7 88.5 72.9	Resultant 123.4 120.6 119.0 117.5 115.8 114.5 111.7 100.7 108.6 106.6 104.4 102.9 97.2 92.7 88.5 72.9 65.1
Mess Hall Inf. Boiler Flant	Inf. 1 Boiler Flant	6823 6474	4240 4020	117 285 190	4 3 3	65 .1 63.4 54 . 7	63.4 54.7 48.9
* + call C	Swim. Pool	4970	3080	614	4	48.9	46.1

	A Start Start			· · · · ·					
	and dearest have sense into the light death for the transfer the sense the	Dun		Load Lbs.	Diversity			Final H	ressure
	and introduce a comparison of the second second second second and the second second second second second second	Run	То	per hour	Load-62%	Leng th	Size	Initial	Resultant
		From				a de la calega de la			
		amah	Inf. MP 3	3850	2385	106	4	72.9	72.6
		Branch	School	1402	869	449	4	72.6	72.5
		mf.	School	1127	698	92	4	72.5	72.48
	. The second	School	School	852	528	97	4	72,48	72.47
	and the second	School	School	550	341	104	4	72.47	72.46
		School	School	275	171	90	4	72.46	72.45
	· · · · · · · · · · · · · · · · · · ·	School	School	210	111	90	4	12.40	12.40
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	totte such a construction of a set of the set of the set set of the set of the set	Branch	Hostess H.	2592	1607	199	21	92.7	90.5
	and a fight the attraction of the second	Hostess					. 7		
	and the development of the second	House	Adm.	397	246	340	21	90.5	90.4
	Lemmandades a construction of the second		1						
	a star when the start we have a start when a start with and get a low of	Branch	Mess Hall	4580	2840	/ 159	3	114.5	113.1
	n anna an ann an Anna ann a Anna anna a								
		Branch	WR 619	2300	1425	47	212	123.4	123.1
		619	620	1150	713	119	25	123.1	122.9
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	where we are seen as a first seen is a set of the set of the	CHP	WR 502	11767	10950	310	5	125	122.6
		502	Branch	16517	10250	72	5	122.6	122.1
		Branch	Mess Hall	10767	6680	629	4	122.1	115.8
	and the second		WR 319	6187	3840	134	4		
	en in grupe, a brett a en d'a la freir a l'en la la service de la service de la service de la service de la ser		315	5037				115.8	115.3
		319			3120	165	4	115.3	114.9
	 Least Sciences (Fig. 1) and a science of a second sci	315	314	4887	3030	136	3	114.9	113.6
		314	308	3737	2318	138	3	113,6	112,8
		308	302	2587	1608	161	3	112.8	112.3
	state of the the second s	302	301	1437	890	126	3	112.3	112.2
		301	Decontam.	287	178	125	3	112.2	112.19
	an and a second s								
	and a second br>Second second	Branch	Mess Hall	4580	2840	162	3	115.8	114.4
••	a and a second as a second a second a second a second a s	Descuit							
		Branch	WR 501	5750	3565	23	3	122,1	121.8
		501	506	4600	2850	175	3	121.8	120.4
		506	512	3450	2139	133	22	120.4	118.3
		512	513	2300	1425	163	25	118.3	117.2
		513	520	1150	714	179	22	117.2	116.9
							~		
			CON	DENSATE REI	URN FRICTI	ON LOSS S	TUDY		
									
		Run		Amount of C	ondensate			Т	'otal Head
		From		bs. per Hr.		Length	Size		n Feet
		022		*****************					
		CHP	Branch	23400	46.8	120	4	0.37	0.74
		Branch	WR 613	21980	43.9	243	4		19.38
	A A A A A A A A A A A A A A A A A A A	613	612	21250	42.6	143	4		19.74
		612	606	20520	41.1	139			
		60.6	601	19820			•4		19.57
*		601	34		39.8	169	4		19.94
	and the second	Mess Hall	419	19100	38.2	138	4	2.74	5.12
	A STATE AND A STATE AN	419	415	16280	32.6	407	3	17.85	23,19
	the second se		110	15560	31.1	162	3	17.35	23.63
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5					- Cologa da Tradada				Rw		Amount of Cor bs. per Hr.	densate GPM	Length	Size	Static	Total Head in Feet	-
			North States		11			and the second	From				1				
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	and mail a	n Mare Margelli (Jarde a Marin Novelage of San agus	1-1-1 1 10 1 1 10 10 10		and a second		·		414	408	14120	2812	138	3	17.85	25.50	
	7.3.			·	4880	1. 1.161			408	402	13420	26.4	165	3	17.85	26.21	
					6.21		1 1 . 12		402	401	12700	25.4	122	3	17:85	26.67	
	· · · ·	· · · · ·		:3	5	·	1		401	Brig	11990	24.0	518	3	17.35	28.04	
	S	9		10	1				Brig	Branch	11210	22.4	454	3	9.08	21.22	
	204 12	** ***			Ist				Branch	Theatre	10220	20.4	137	21	28.27	41.34	
	1. 1. 1. 1.		•	the state		· · · ·		L. A. S. A. S.	Theatre	Branch	8780	17,5	694	22	8.76	25.37	
						* -	1		Branch	Branch MP 1	L 6400	12.8	557	22	8,77	26.95	
	· · · · ·			* : : <u>:</u>	14 S. T.	3.213	•11 at at a st	11 - 12 - 1	Branch	Mess Hall	0700	10 0	22.0	01	00 55	10 05	
							• . The set of the set			M.F. #1	6300	12.6	117	212	29.55	48.05	
				223		• 4.3				Inf. MP 1	4240	8.5	285	21	27.95	46.85	
							~ .	1	Inf .	Boiler Plt.		0.0		-1		5 0 0 0	
	1	·········			· · · · · · · · · · · · · · · · · · ·					M.F. #1	4020	0.8	190	21	.7.49	26.62	
									Boiler	Curin Deel	2000	C 0	C2 4	ol	77 00	FF 00	
	1.1.1	3.4	187 a. 1913 a.	· ·	5	2.2			Flant	Swim. Fool	3080	6.2	614	2호	33.60	53.28	
	1 C . 2.			211	5. 257	- 1. 1				T-0 100 7	0705	1 0	100	01	ZA OF	10 77	
									Branch	Inf. MP 3 School	2385 869	4.8	106 449	22	34.05	40.73	
	1 s. 2	* *	• .	152		N. 5.1.1			Inf.	School	698			22	19.35	36.27	
	1. 1.	9 9 · · · ·	÷	'	6. 7. 19. 19	T . 2011	the second	251546	School	School	528	1.4	92 97	22	19.35	36.19	
			a. •	¥	$(1+\frac{1}{2})^{2} = (1+\frac{1}{2})^{2} = (1+\frac{1}{2}$	32 - E - je t			School School	School	341	0.7	104	22	19.35 18.85	36.21 35.72	
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	·		•		1	5	5 J.		House	Adm.	246	0.5	340	21	21.85	34,12	
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	•	. d. all 1		~	1				Branch	WR 619	1425	2.8	47	2금	20.85	21.24	
			÷.					100000000000000000000000000000000000000	619	620	713	1.4	119	2212	20.85	21.26	
		2.4 10		· · · · ·			1. A	and the second									
		· · · · · · · · · · · · · · · · · · ·		• • •	24 ²				CHP	WR 502	10950	21.9	310	3	16.85	17.78	
	ан (так) ал	•				13.1			502	Branch	10250	20.6	72	3	4.39	5.51	
					1111 111	· · · · ·		D	Branch	Mess Hall	6680	13.4	629	22	6.29	9,36	
			1.4	6 m	B. also a	15 T	7	- 2	aless Hall 319	WR 319	3840	7.7	134	22	17.85	21,07	
									315	315	3120	6.2	165	2章	17.35	20.73	
			11. 11. jan 1			In the state			314	314	3030	6.1	136	2支	16.85	20.35	
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		·	1 (A)		· • · · ·	t Stad 1		1. 11		Mess Hall	2840	5.7	162	22	22,35	25.58	
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(x, y) = (x, y) + (STEAM DISTRIBUTION LOSSES

m of I	ipe Includes	1		Э			
	1.521 Linea	1 Feet - 6"	1,915 t	ineal Fe	ot _ 3"		
	1,912 "	" - 5"	1,535		- 21:"		
	3,985 "	ti _ 4"	2,000				
sses:	· · · · · · · · · · · · · · · · · · ·						
15500.	15.21 x 20						
		7 = 338146					
		= 597:75					
		4 = 237.46					
	15.35 x 10.	6 = 162.71					
		1640.58	Lbs. per Hou:	r .			
	1640.58 x 2	4 = 49373.9	2 Lbs. per Da	ay			
	10000 00	10 00	100 0 00				
	49373.92 x	365 = 18,02	1,480.8 Lbs.	per Yea	r		
	18,021.48 x	\$.35 = \$6,3	307.52				
G-2	.08. Rifle	Range Colored	l Camp. The	distrib	ution syste	m serving	
e Rifl	e Range Colo	red Camp is a	new system	serving	6 Washroom	ns and 1 Mess	
.11.							
m 1							
ilding	system is of	f aerial cons	struction, po	ole line	type, and	serves the	
seberg	s with steam	at nominally	7 50 p.s.i.	The ret	urning cond	ensate lines	
scharg	e into a ven	ted receiver	and is there	efore un	der only th	e static	
au pru	s such addit:	ional pressur	e as is caus	sed by 1	ine frictio	n.	
The	re follows in	+ohulon for					
timate	d pressure di	n tabular for rop to each c	t the huild	tion of :	figures sho	wing the	
ainst	which the ret	turn traps mu	st operate	ings ser	vea, the to	tal head	
sses t	hroughout the	e system. Th	e line loss	ind an e	stimate of	the line	
gure t	o show the in	portance of	maintaining	the lin	esolved int	te of perfect	
pair.			mathoathting	one tin	ss in a sta	te of perfect	2
		STEAM FRESS	URE DROP STU	DY			
D,	un						
om		Load Lbs.			Final F		
	To	per Hour	Length	Size	Initial	Resultant	
2	WR-RR-213	3450	707	4	55 0		
-213	RR-212	2300	303	.4	55.0	53.48	
-212	RR-211	1150	120	3	53.5	52.25	
	and white	TTOU	139	3	52.3	51,88	
2	Branch	6478	192	5	55 0	E4 0	
inch	WR-RR-215	3450	110	5	55.0	54.0	
215	RR 216	2300	120	5	54.0	53.83	
516	RR 217	1150	139	33	53.8	52.61	
mail			102	0	. 52.6	52.22	
nch	Mess Hall	3028	157	4	54.0	53 20	
			101	T	01.0	53.39	

CONDENSATE RETURN FRICTION LOSS STUDY

Ru	n	Amount of Con	ndensate		
From	To	Lbs. per Hr.	GPM	Length	Si
CHP	WR-RR-213	3450	6.9	303	2
RR 213	RR 212	2300	4.6	120	2
RR 212	RR 211	1150	2,3	139	2
CHP	Branch	6478	16.2	192	2
Branch	WR-RR-215	3450	619	110	
RR-215	RR 216	2300	4.6	120	14 14
RR 216	RR 217	1150	2.3	139	2
Branch	Mess Hall	3028	610	157	2

STEAM DISTRIBUTION LOSSES

Run	of	Pipe	Includes:	

302 Lineal Feet - 5" 460 " " - 4"

Losses:

3.02	х	13.0	=	39.26
4.60	x	11.2	=	51.52
5.18	x	9.2	=	47.66
				138.44 Lbs, per Hour
138.4	14	x 24	#	3322.56 Lbs. per Day

3322.56 x 365 = 1212734.4 Lbs. per Year

1212.73 x \$.35 = \$423.46

G-2.09. Signal School Facilities. The distribution system serving the Signal School Facilities is a new system serving 3 Barracks and 1 Mess Hall.

The system is of aerial construction suspended from piles, and serves the buildings with steam at nominally 100 p.s.i. The returning condensate line discharges into a vented receiver and is therefore only under the static head pressure plus such additional pressure as is caused by line friction.

There follows in tabular form a compilation of figures showing the estimated pressure drop to each of the buildings served, the total head against which the return traps must operate and an estimate of the line losses throughout the system. The line losses are resolved into a cash figure to show the importance of maintaining the lines in a state of perfect repair.

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		Total Head
ze	Static	in Feet
1	510	5.31
10	5.0	5.39
-102-102-102	5.5	5.94
1	0:19	1.04
-la-la-la-la	8.00	: 8.96
Ĩ	8:00	9:04
12	9100	10.09
12	12.00	12,86

518 Lineal Feet - 3"

STEAM PRESSURE DROP STUDY

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Load Lbs. Run To Per Hour Length Size From 8235 Branch 103 4 CHP Branch Branch A 2745 305 3 Branch A BA 102 2745 120 3 Branch Branch B 5490 220 3 Branch B Branch C 2745 295 3 Branch B BA 104 2745 87 3 Branch C BA 105 2745 65 CHP Mess Hall 3028 105 3

CONDENSATE RETURN FRICTION LOSS STUDY

From	lun To	Amount of Con Lbs. per Hr.	ndensate GFM	Length	Size	Static	Total Head in Feet
CHP	Branch	8235	16,5	103	21/2	13.33	13.80
Branch Branch A	Branch A BA 102	2745 2745	5.5 5.5	315 120	222	15.6 18.0	16.32 18.82
Branch Branch H	Branch B Branch C	5490 2745	11.0	220 295	2222222	13.9 14.6	14.86 15.80
Branch H	B BA 104	2745	5.5	87	21/2	17.6	18.63
Branch (BA 105	2745	5.5	65	212	17.1	18.35
CHP	Mess Hall	3028	6,06	105	212	15.6	15.69

STEAM DISTRIBUTION LOSSES

Run of Pipe Includes:

	103	Lines	l Feet	- 4 ¹¹	1,207	Lineal	Fe
osses:							
	1.03	x 14	=	14.42			
	1000	V Ta		TIGIC			

 $12.07 \times 11.6 = 140.01$ 154.43 Lbs. per Hour

- 987 -

Final Initial	Pressure Resultant
100	98.1
98 .1 95 . 3	95.3 94.1
98 .1 90 . 2	90 . 2 87.3
90.2	89,3
87.3	86.6
100	98.9

Peet - 3"

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154.43 x 24 = 3706.32 Lbs. per Day 3706.32 x 365 = 1352806.8 Lbs. per Year 135.28 x \$.35 = \$47.35

G-3. Propane Gas System.

G-3:01: General. Under the program covered by this volume of the report, eleven propane gas installations were installed. Some of these were of the type covered by Section G-3 of Volume I; that is, they were served by Flasks, or by underground mains connected to the central propane gas plant. Other of the new installations are served by large underground or above ground storage tanks.

To all of these systems the general statements in Volume I as to the properties of the gas, its pressure reduction before use, etc., apply.

The greatest basic difference in the new system lies in the fact that the storage tanks installed under this program are filled by tank truck which in turn is charged at the central gas storage plant.

A tabular summary follows which shows in detail the buildings equipped with gas, their location, the use to which the gas is put and the provision made to supply the gas.

Building	Location	Use
Infirmary	M. C. W. R.	Dental Chair & Laboratory
Mess Hall	Labor Battalion	Cooking
Grade & High School	Paradise Point	Laboratory .
Mess Hall	M. P. Camp No. 2A	Cooking
B. O. Q.	M. F. Camp No. 2A	Cooking
2-Mess Halls	M. F. Camp No. 3	Cooking
Hostess House Infirmary	Montford I. Camp #3 M. F. Camp No. 3	Cooking Dental Chair & Laboratory
Mess Hall	Rifle Range Colored Camp	Cooking
Mess Hall	Signal School Facilities	Cooking

Supplied By

2 - Flasks

1,000 Gal. underground tank

2 - Flasks

2 - 200 Gal. underground tanks200 Gal. underground

tank Each - 1,000 Gal. underground tank

2 - Flasks

2 - Flasks

500 Gal. Underground Tank.

500 Gal. Above ground Tank.

G-4. Gasoline and Qil Storage & Distribution.

G-4.01. Storage: Additional construction necessitated the installation of the following storage facilities for # 3 fuel oil, for use with galley equipment.

Montford Point # 2 Mess Hall, 1-1000 gallon tank Montford Point # 2 Demonstration Bldg., 1-560 gal tank Individual space heaters using # 3 fuel oil were installed in thirty school buildings throughout the base and in two sewage treatment plants at Montfort Point # 3 and the Rifle Range.

G44:021 Distribution. Due to the excessive demand of gasoline at the pumps in front of the Post and Division garages and at the request of the Marine Corps, a 3 " pipe line was installed from the tank farm to the garages with 2 meter and deaeration pits. The gasoline is pumped from storage by existing 100 g.p.m. pumps through meter's located in pits where it is manifolded to any one of the eight 1000 gallon tanks in front of the garages.

G-5. Regrigeration.

G-5.01 General. The selection of regrigeration equipment covered in this section includes installations not covered in volumes I and II of the completion report.

G-5.02 Loads. Refrigeration loads were calculated in accordance with Section G-5.02 of Volume $\frac{1}{12}$ I.

G-5.03. Unit Coolers. Fan type unit coolers only were used in these installations.

Defrosting Equipment.

(a) water type defrosting was installed in each unit in each low temperature (32°F and lower temperatures) room.

(b) Each defrosting hock-up was provided with two values, one located on the water supply, and the other permitting, when open, water from the supply to pass directly to the sewer, by passing the unit. The bypass value permits all water from a leak in the supply or from the unit and pipes located in the regrigerated room to drain to the sewer.

(c) The by-pass valve must be open at all times except when the defrosting process is in operation. Failure to observe this instruction will result in frozen defrosting lines.

G-5.04 Compressors.

(a) Three self contained compressors were provided for each installation except the mass hall in Montford Point Camp Number 2 (P-501-4-2), and the Grade and High School Building (P-1500).

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(a) The second s second se

(b) The installation in the enlisted men's mess hall in Montford Point camp #2 is a duplicate of the installation in the officer's moss in Tent Camp #2 and the enlisted men's mess hall in Montford Point #1 except that due to scarecity, and water cooled condensers were substituted for the evaporative type condenser specified for those installations.

(c) Three compressors, one a complete stand by unit, each a complete unit, and each squal to at least one-half the total calculated load were provided for each installation. Compressors were of the self contained type complete with the compressor, motor, and combined condensor and liquid receiver mounted on the same base plate. Lines, with proper valves for isolating any machine from the others were provided for equalizing the suction, liquid, hot gas, oil level and crank case pressures.

(d) The standby compressor should have the disconnect switch open and ell valves closed.

(e) Instructions should be issued to stewards and other mess-hall personnell to call the camp refrigeration mantainance department for any rofrigoration service except defresting. Under no circumstance should an unauthorized person cut in a standb/ compressor.

G-5.05. Condensers. Condensers in these installations except on Project P-501-4-2 are of the shell and tube a shell and coil type. Condensers were selected to use not more than 3 gallons of water per minute per ton of refrigeration produced.

G-5.06. Service. The service instructions in G-5.08, Vol. I, shall apply.

G-5.07. Water Cooling. Two indentical water coolers are installed in the Grade and High School and located in opposite ends of the building, Coolers are of the remote type, using water cooled condensors located in gear rooms, with chillers located in attic above the drinking fountains.

Each installation has a storage capacity of 11.6 gallons and a recovery capacity of 11.3 gallons per hour from 85 to 45°F. No standby equipment was specified for these installations.

G-5.08. Summary of	f Install	ations.		
Location I	nstall-	Spec.	No. Comp. Installed,	Typ Cor
Nontford P. Moss Hall	1	153	5	Eve Sho
Montford P. 2A Moss Hal	1			
& P.X.	1	1024	3	
Montford P. 2A B.O. 2.	1	1024	3	
Montford P. #3 Moss Hal	12	1024	3	
Womans Resorve Moss Hal	1 1	1024	3	
Womans Reserve B.O.Q.	2	1024	3	
Labor Bn. Indus. Mass H	. 1	1024	3	
Colored Camp Kifle Kang	01	1024	3	
Sig. School facilities Grade H.S. (water cooli	1	1024		
unly)	2	1024	1	

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ap. Cond. Holl & Coil	2.47
**	1.72
11	.1.72
11	3.33
12	3.33
11	2.03
FT	3.33
11	2.5
11	3.33
11	0.61

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G.6. Air Conditioning.

No Air-conditioning installations were made during the period covered by this volume of the report.

A report of all the airconditioning installed will be found in section G-6 of volume # I.

G-7. Ventilation.

G-7:01. General: This section covers the mechanical ventilation of the several buildings designed and ventilated since volumes $\frac{4}{47}$ I and II were published.

Basic computations, design standards and formula closely follow recommendations and data of the most recent edition of the "Guide" as public lished by the American Society of Heating and Ventilating Engineers. Air quantities were selected for removal of heat and odors with the idea of providing healthful and comfortable conditions for occupants.

Ventilation was provided for 45 buildings with facilities to handle 814,700 cubic feet of air per minute, of which amount 51,600 C.F.M. was tempered, and 763.100 was exhausted. Tempered air was either 100% outside air or a mixture of inside and outside air, proportionate to the temperature, and was admitted to the building through tempering coils. Excess air was exhausted, or was permitted to diffuse through corridors or building openings.

6. The lumber kiln. In lieu of the convertional for commonly used in installations of this type, unit heaters were used for introducing the heated air into the processing chambers.

G-7.02. Ventilation by Projects.

The following table lists the several buildings provided with ventilation. type of system and air quantities.

-			
		No. Bldgs.	Type of
2012		Erected	System
100	Barracks - M.C.W.R. Area	8	Exhaust
j.e.	Mess Hall - M.C.W.R. Area	1	13
	Infirmary - MIC.W.R. Area	1	88
	B.O.Q M.C.W.R. Aroa	2	*1
	Service Club M.C.W.R. Area	1 .	u
	Office Bldg. Inds. Area	1	Exhaust
	Cafeteria Inds. Area	1	11
And the second second	H. Type Brks. Inds. Area	4	68
1.	Mess Hall Inds. Area	1	**
	Lumber drying Kiln Inds. Aroa	1	Tomporod
	Lumber ut ying him mas. moa	1	romporou
. t. 14.	Grade & High School	l	Exhaust
	Uniform Shop-Post Troop Arsa	1	Exhaust
	Photographic Facilities	1	Exhaust
	Photographic Facilities	1	ganaust
ł	Mess Hall Dog Training Facilitie	s 1	Gravity
27 27	H. Type Brks Signal School		
Pres la	Facilities	3	Exhaust
	Mess Hall Signal School Faciliti	es l	Exhaust
	Swimming Pools D.T.A.	2	Exhaust
	Red Cross Bldg. D.T.A.	1	
• •			Exhaust
	Brks. Montford Pt. 2A	1	Exhaust
×	B.O.Q. Montford Pt. 2A	1	Exhaust
	Domonstration Bldg. M. P. #2	1	Exhaust
	Mess Hall M. P. # 2	1 .	Exhaust
	Ness Hall M. P. 3-	2	Exhaust
Mar and	Infirmary M. P. #3		
State State	The Hours Hours Hours	1	(Tempered
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1	Theater P.X. Barber Shop M.P. 75	1	(Tempered
			(Exhaust
	Brig. M.P. #3	1	Exhaust
2 10	Hostess House M.P. #3	1	Exhaust
	Swimming Pools M. P. #3	1	Exhaust
	Mess Hall Colored Troops	1	Exhaust

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C. F. M. Ea. Bldg.	Total Air C. F. M.
8260	66,080
38000	38,000
43800	43,800
17420	34,840
12200	12,200
49500	49,500
15000	15,000
2600	10,400
38000	38,000
17100	17,100
38800	38,800
500	500
5000	5,000
- 15 00	1,500
7800	23,400
24500	24,500
45370	90,740 4,680
4680	4,680
18000	18,000
9130	9,130
8000	8,000
24500	24,500
38000	76,000
900	
67100	68,000
33600	
49000	82,600
1030	1,030
8000	8,000
45400	45,400
24500	24,500

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G-8 Equipment.

G-8.01- General. Most of the collateral equipment installed under the program covered by this volume of the report was furnished directly by either the Navy Department or by the Marine Corps. Some few notable exceptions where in we specified the equipment are hereintfter listed. We are also listing the basis of design and some of design data.

G-8.02 Messhalls. Eight in number; project numbers- 1200-4; 1308-2; 1900-4; 501-4-2; 1100-4; 1101-4; and 2302-4. In these buildings we covered by specification the cafeteria counters, and thescullery tables. The basic requirement were set forth by the Marine Corps.

G-8.03. Infirmaries. Two in number; project numbers 1200-6 and 1101-6. In these buildings we covered by specification the sterilizers and fixed hospital equipment such as Leg Baths, Arm Baths, Prophylactic úrinals, Water Sterilizers, Stills etc. The requirements of the building were given us by representatives of the ^Navy MedicalCorps who also assisted in the selection of specific items.

G-8.04. Service Club & Post Exchange. One in number; project number 1200-7. In this building we covered by specification the beauty-shop and fountain equipment. The requirements were set forth by the Marine Corps.

G-8.05. Bachelor Officers Quarters. Three in number; project numbers 1200-9 and 1100-9. In these buildings we covered by specification the scullery tables. Requirements were set forth by the Marine Corps.

G-8.06. Dry Kiln. One in number; project number 1301. In this building we covered by specification the entire equipment including the automatic control devices. The process requirements of the building together with the availability of materials governed our selection of equipment.

G-8.07. Theater, Post Exchange and Barber Shop. One in number; project number 1101-8. In this building we covered by specification the barbershop and fountain equipment. The requirements of the building were set forth by the Marine Corps.

G-8.08. Hostess House. One in number; project number 1101-19. In this building we covored by specification the scullery tables. The layout was furnished by the Marine Corps.

CHAPTER H - PART II

ELECTRICAL DEPARTMENT

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H-1. Introduction.

H-1.01. It is the intent of this supplementary report to cover in general, with essential details where necessary, the changes, alterations and additions made prior to October 1, 1942 to the existing electrical installations, together with those made after that date. It covers outside distribution and interior wiring for lighting, power, and other electrical systems throughout the different areas including recommendations for future improverents when materials are available.

H-2. Power Source.

H-2.01. The interconnection with the local power companies, consisting of a 5,000 KW sub-station located near Jacksonville and a 33,000 volt overhead transmission line, was replaced by a 110,000 volt transmission line connected ahead of the Jacksonbille sub-station and directly to their Abbottsville - La Grange line.

H-2.02. The 33,000 volt interconnecting line with the steam plant at Cherry Point was replaced by a 110,000 volt transmission line.

H-2.03. The 5,000 K.V.A. 33,000/ 7,200/ 12,470 volt transformer bank at the Diesel Plant located on the Marine Barracks property was replaced by a 7,500 K.V.A. 110,000 /7,200 /12,470 volt transformer bank. This bank is fed from a bus supplied by feeders from the Tidewater Power Company and Cherry Point steam plant, respectively, each controlled by an oil circuit breaker.

H-2.04. The Diesel Plant was enlarged and an additional 2,500 KW, 2,400 volt unit installed. This unit was connected to the 12.5 KV bars on the switchboard through a 3,000 K.V.A. step up transformer bank. The two existing 1,300 K.V. 6,600 volt units were connected to the 12.5 KV bus through the existing step up transformers.

H+2.05. The 250,000 C M cables from the switchboard to both stations Nos. 1 and 6, comprising the ends of Loop No. 1, were replaced with 500,000 C M cables.

H-3 Marine Barracks Main Supply Feeders.

H-3.01. At the time the original report was made the connected load on Loop No. 1 was approximately 17,500 KW including a load of 1,350 KW on Loop No. 2. By reason of the fact that the disconnecting switch at Dixon, which completes Loop No. 2 by connection with R. E. A. lines, was locked out for emergency use only; Loop No. 2 is operating as a radial line from Loop 1 with a connection at Station No. 2. The main load of 16,150 KW was nnnected through radial feeders from Loop No. 1 at the various stations.

H-3.02. By March 1, 1942 the connected load on Loop No. 1 had been increased to 18,395 HV with additional loads contemplated to serve the Incromen Marine Area, Grade and High School and Montford Point.

H-5.03. At the end of June 1942 with the addition of a Labor Battalion at the Industrial Area, the total future connected load on Loop No. 1 was estimated at 22,000 HW.

H-3.04. Underbuilt lines consisting of 3 1/4 B & S gauge wires had been installed part way along the loop feeder from and between Stations 1 and 2 to supply the loads adjacent to these stations. Those portions of the underbuilt lines were replaced with #0 B & S gauge wire and the gap between the ends of these runs was completed, making it continuous between Stations 1 and 2. This line was disconnected at Station No. 2, the Grade and High School, the Industrial Area and the Parachute Training Area were connected to it and controlled from a breaker at Station No. 1 ahead of the loop feeder breaker. The short runs of cable from both Stations No. 1 and 6 to the plant switchboard were replaced with 500 MCM cable.

H-3.05. These changes materially reduced the line loss and improved the regulation on Loop No. 1 and also provided an individual breaker on Station No. 2 to control Loop No. 2.

H-3.06. As additional loads were contemplated along Loop No. 2. mainly at Onslow Beach bringing the connected load on this line up to approximately 2,000 K.I, a 156 KVL voltage regulator with 10% "buck" or "boost" was installed in this feeder at the point where it leaves the Industrial trea. This compensated for the voltage drop along this feeder and eliminated, up to 10% above or below normal, the voltage fluctuations due to variations of loads on both loop feeders.

The same type of construction as the original installation was used.

H-4. Distribution Systems.

H-4.01. Onslow Boach. The distribution system for this area is by means of an overhead line connected to Loop No. 2 through open type fuse cutouts serving a 450 KN substation, at which point the voltage was reduced to 2,400 volts in order to meet local conditions of atmospheric moisture, salt spray from the ocean and also because of the submorged cable crossing the Inland Waterway. After crossing the waterway the line runs overhead to serve the activities on the Beach. Construction details including insulators, spacing, etc. are for 12,470 volts, using flat construction in lieu of triangular construction with pole toppins. This type of construction reduces the possibility of a flash over the insulators and electrical stress on the submarine cable.

H-4.02. The submarine cable crossing the Inland Materway was specified

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to be of the non-metallic sheathed type, rated for 5,000 volts, and protected against mechanical injury by spirally wound round steel wire overall. Due to the critical material involved and the time required to deliver this short piece of cable, a stock piece of 3 conductor paper shielded lead, 15,000 volt cable was installed. Lightening arresters were installed at both ends of the cable which terminate in pot heads for connections to the overhead lines. Hurst Beach and the existing buildings on Onslow Beach, which are now fed from R. E. A. lines, will be connected to the new system in the future.

H-5 Street Lighting Systems.

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H-5.01. The street lighting system along Holcomb Boulevard, consisting of concrete standards with luminaries, was extended along the Boulevard and then along Lucy Brewer Road of the Women Marine Area,

H-5.02. Where extensions were made in other areas the same type of fixtures used at present were installed. These consisted of pole mounted brackets with globe and reflector or radial wave reflectors as the case might be.

The new street lighting units were all connected to the existing street lighting circuits.

H-6. General Notes on Interior Design.

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H-6.01. Due to the continued shortage of steel conduit, the interior wiring of buildings, constructed of wood and those with wood joists, was installed with non-metallic sheather cable similar to "Romex" secured to the building structure with straps or clips.

H-6.02. Where exposed on the side walls, such as drops to switches and receptacles, the cable is protected by short pieces of conduit extending from the box containing the device to the ceiling or floor line.

H-6.03. Where the wiring in concealed in concrete buildings, concrete floors and masonry walls, it was installed in rigid steel conduit or electric metallic tubing.

The same general design as to illumination, wattage per circuit, etc. as outlined in the original report was followed.

H-7. Electrical Features of Buildings.

Bus Terminal located at "F" Street near the Main Service Road is fed from the overhead distribution lines through pole mounted transformers and thence by underground secondary cables down the pole and into the building. The Terminal is equipped with a complete announcing system consisting of a microphone, amplifier, two speaker units in the waiting room and two on the platform.

-996-

R-8. Swimming Pools.

H+8.01. There are four pools; three covered units located one each in Pegimontal Areas 2 and 5 and one unit at Montford Point primarily for training purposes and one open unit located in the B. O. Q. rea.

H-8.02. In the covered pools the lighting is by means of Dome Type ptH reflectors with swivel type hangers for vertical hanging from the arched roof. The outlets were placed at the beam intersections and provide an intensity of approximately five-foot candles on the water. These outlets are 500 watt size and are wired two to a circuit. Lighting over the mezzanine floor is by the same type of units of 200 watt size. The units under the concrete diving platform are recessed type of 200 watts .each.

H-8.03. All the lighting over the pool proper, the interior and exterior exit lights, unit heaters in the main ceiling and the ventilating units of the large area is controlled direct from a circuit breaker type flush panel in the office.

H-8.04. The lighting in the locker rooms and machine room is basement is controlled by local switches all fed from a switch and fuse type panel located in the machine room in the basemont.

H-8.05. Power for the pumps and machinery is direct from the service entrance assembly.

H-8.06. Current is supplied to the building in area No. 5, area No. 2, and Montford Point by means of an underground cable from pole mounted transformers in the overhead distribution system.

H-8.07. The open pool is lighted by means of "Play-irea" floodlights, 750 watts each for the main pool, 500 watts size for the wading pool and a 500 watt "Column-Lite" for the concrete walkway between. These are all controlled from a panel board located in the locker room which also controls the lighting in the lockor and machinery rooms.

H-8.08. The pumps and machinery are controlled from safety switches located in the machinery room.

H-8.09. The panel and safety switches are all fed by a main from the secondary side of the transformers in the Bachelor Officers' Mess.

H-10. Grade and High School.

The Grade and High School located on Faradise Point Road has all the appointments and facilities (electrical) to provide for all grades from Lindergarten to High School. It includes school and classrooms, home econo-Mics, domestic science laboratory, manual training room and a large auditorium with s tago.

H-10.01. The class rooms are lighted using recessed lighting units giving an intensity of approximately 12-foot candles on the desks. These are instilled and controlled in two rows permitting the illumination to progress

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toward the windows as the daylight recedes. Wall receptacles are installed in the rear of each class room for the use of small storcopticon or motion picture machines and on the front wall for the teachers' use.

H-10.02. The manual training room is lighted by means of ceiling dome type RLM roflectors giving an intensity of approximately 15-foot candles on the working plane of 30 inches above the floor. Power lines are run for the customary machine tools and electrical bench used in class rooms of this type.

H-10.03. In the Home Economics and Science laboratory class rooms, small fuse panels are installed in the closets with branch circuits supplying refrigerator, ironing boards, sewing machines, laboratory tables and ranges.

H-10.04. The auditorium is wired so it can be used for small theatrical presentations with footlights, one border light trough, two stage floor pockets and two rear wall stage pockets.

H-10.05. All stage wiring is controlled from a panel on the stage side of the proscenium wall. The "house lighting" is controlled from a panel in the auditorium located adjacent to one of the doors leading to the corridor to provide handy control of the lighting in this room for assembly purposes without the stage. A remote control of the ceiling lighting from this panel is provided for on the stage at the side of the stage panel.

H-10.06. All corridor lighting is controlled direct from the respective corridor panels with the exception of the two short front - rear corridors which are controlled b lock type tumbler switches located at the front and rear door, each switch controlling every alternate light. The connecting corridor lighting is controlled alternately one half on each corridor panel.

- H-10.07. Exit lights are placed over each door of the auditorium to the corridors and over each corridor door to the outside.

H-10.08. I complete system of program bells is installed, one in each class room, one in teachers study, one in each corridor and three yard gongs. These are operated by a master clock and program machine in the Frincipal's office and also by individual push buttons located adjacent to the master clock and program machine.

H-10.09. The program machine is provided with four separate programs and a rranged by the use of clips so that the bells and gongs can be placed on any program and the program changed as desired. Push buttons provide for individual manual operation.

H-10.10. A fire alarm system of the open circuit, break glasstype is installed with stations at the exit doors and gongs in the corridors.

H-11 Labor Battalion Barracks.

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H-11.01. The Labor Battalion Barracks building being a combination of

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four standard barracks and two wash room buildings with the thought in mind that the plans would be considered as standard plans for use in other sections of the country with possibilities of changes due to different requirements, terrain and current characteristics, the interior wiring was designed on a unit system.

H-11.02. Each section of the barracks portion and each washroom section was wired as a unit to permit the elimination of any one section with a minimum of changes required to the drawings. Provisions were shown on the plans for alternate service entrances at either end of the building and a schedule on the drawings show the number and size of conductors together with the number of poles and size of the main switch for the six most common current characteristics.

H-11.03: Lighting panels were placed in each end of the building using "Romex" or similar non-metallic sheather cables for branch circuits. The main feeders were installed in conduit.

H-12. Lighter-than-air Building.

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Complete plans have been prepared for this project but its construction has been deferred. This building is located at the Airport and is supplied from the three phase wires of the 4,160 volt, 3 phase, 4 wire bus in the Transformer building by means of a 5,000 volt, 3 wire underground cable and a subway type transformer located in a vault outside the Lighterthan-air Building.

H-12.01. The transformer is 15 KVA, 3 phase, 3 wire, 4,160 volt primary to 120/208 volt, 3 phase, 4 wire secondary. Primary connections to the incoming service cable are made in a splice box with lead covered cable and wiping sleeves at the box and transformer to permit the removal of the transformer without disturbing the primary cable.

H-12.02. The underground cable is of the non-motallic parkway type with shielding coppor tape and rubber jacket. The shielding tape is grounded at each end of the cable run and expanded in the potheads forming stress cones, permitting continuous operation of the cable at full rated voltage without detrimental effects. This cable is connected to the bus in the Transformer building through single pole enclosed type primary cutouts.

H-12:03. The interior wiring in the building is with non-metallic sheathed cables secured to the building structure by means of straps or clips.

H-13. Montford Point Infirmary.

The Montford Point Infirmary at present consists of one administration Wing, one ward wing and connecting corridor with the possible future addition of two ward wings with connecting corridors.

H-13.01. Service for this building and future additions is brought into a transformer house underground at 12,470 volts, 3 phase, 3 wire. An incoming service cubicle containing externally operated disconnects, oil

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breaker and tripping transformers together with three 50 KVA, single phase, 12,470 volt primary to 120/208 volt secondary transformer are installed in this house. Three phase, four wire mains were extended underground from this transformer bank to the present building and sleeves set in the wall for extension to the future buildings.

H-13.02. With the exception of individual sterilizers, electric range and plate warmer in the diet kitchen the main load is lighting. Two, branch lighting panels are installed in the administration wing and one in the ward wing.

H-13.03. Two complete nurses' call systems are installed, one for the large ward and connecting corridor and one for the isolation ward. These two systems are each complete in themselves, consisting of nurses' call annunciator at the respective nurses stations and calling buttons with pilot lamps at each bed. Quiet rooms and isolation wards are also exipped with calling stations and dome type corridor lamps over the doors to the rooms.

Operation of each system is by means of 24 volt ..C. current obtained through dry type transformers installed adjacent to the nurses station annunciator.

H-14. Women's P. X. and Service Club.

The Women's P. X. and Service Club in the Marine Corps Women's Res. Area contains a modern and completely equipped beauty parlor. Each booth and each chair has two types of convenience outlets in the wall, one type for the use of permanent wave machines and the other for the use of dryers.

Manicure tables are supplied from water proof receptacles in the floor under the tables.

H-14.01. An annunciator installed at the desk is operated from push buttons located in each booth at each chair and at each manicure table. This system is operated at low voltage through a small dry type transformer located adjacent to the annunciator.

H-15. Women's Infirmary.

The Women's Infirmary consists, at present, of two wings, one administration wing and one ward wing, with a connecting corridor with the possibility of one additional ward wing and connecting corridor in the future.

H-15.01. Service to this building is brought in underground from a pole mounted transformer bank, sized for the future load, at 120/208 volt, ³ phase, 4 wire. With the exception of individual sterilizers, range and plate warmer in the dist kitchen, the main load is lighting.

H-15.02. Two branch lighting panels are installed in the administration Wing, and one in the ward wing.

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A complete nurses call system is installed in the ward wing and the connecting corridor with nurses call annunciator at the nurses call station in the ward. This is operated from calling buttons with pilot lamps at each bed. Quiet rooms are also equipped with calling stations with the addition of dome type corridor lamps over the doors to the rooms.

H-15.-3. Operation of the system is by means of 24 volt AC current obtained through a dry type transformer installed adjacent to the nurses station annunciator.

H-16. Post Shop.

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Two complete sawdust removal plants were installed in this building each operated by a 20 H.P. motor. The control wiring for these motors is installed and connected so that they will automatically start on the starting of any individual motor in the system and continue running as long as any machine in the system is operating irrespective of whether it was the mechine that started the plant. To provide for cleaning purposes with all mechines shut down, start and stop buttons were installed for manual operation.

H-16.01. This was accomplished with relays, one on each machine, energized from the load side of the motor switch or contactor closing the control of the contactor of the sawdust removal motor.

H-17. Maintenance Suggestions.

H H-17.01. No attempt has been made to recommend any particular procedure as to maintenance except to call attention to the Voltage Regulator and the insulators on Onslow Beach.

H-17.92. Voltage Regulator. The voltage regulator installed in Loop No. 2 at the point where it leaves the Industrial area should be given periodical inspections at least once a year.

The motor brake should be inspected to make sure that the tapchanger is stopping on position. If the mechanism is drifting past position the brake springs should be tightened until the tap changer again stops on position.

There is no voltage across the reversing switch contacts or the prevontive auto-transformer bus contacts so that these contacts will require no maintenance but the transfer switch contacts should be inspected at the time of periodical inspection and replaced should they show evidence of pitting or excessive arcing.

The manufacturer's instruction book should be carefully read before any changes in adjustments are made.

H-17.03. Overhead Distribution - Onslow Beach. The insulators on the overhead distribution along the Beach should be inspected at least twice a War and each insulator cleaned of all salt deposit by wiping clean with a quick drying alcohol solution. All cracked, chipped or broken insulators should be replaced.

R-18. Restrictions of the us of critical materials narrowed the choice of lighting fixtures to a marked extent. Then these materials are released for commercial use, it is advisable to make gradual replacing of lighting fixtures to those of more efficient type, especially to those using fluorescent lamps iving increased illumination with no increase in the wattige per outlet.

1-19. Pertinent Facts.

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Power Sorvice.

Plant 1 - 2700 KVL, 2400 volt, 3 phase, diesel electric unit, 2 - 1625 KVA, 6600 volt, 3 phase diesel electric units, 1 - 7500 KVA, 110/12.5 KV transformer bunk, connected star-delta and fed from the 110 W lines of the Tidewater Power Company and the 6000 AVA steam plant at Chorry Point.

Sub Stations			15			
Overhead Distribut:	ion	100	100.7 Pole			
Underground Distri	bution	16.74 Syste				
No. of Transformer:		7	71			
Total KVA		31,3	11			
Number of Poles		5,70				
Outside Wire		767	.3	16.1	OS	
Inside Wire		1,654				
Conduit		420				
Lighting Outlets		112,6				
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Hadnot Point	ugust !	1941		6,	000	
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H-20.	Additional	Buildings,	Showing	Connected	Loads	and	Service	Voltage.	

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NO. UNIT	TYPE OF BUILDING	INSTALLED LIGHTING IN WATTS	INSTALLED HEATING IN WATTS	INSTALLED POWER IN WATTS	TOTAL LOAD IN WATTS	SERVICE VOLTAGE
1	Gate House (Additions)	560	-	1,056	1,616	120/240 1ø
l	Grade & High School Bldg.	85,060	40,480	25,267	150,807	120/208 3Ø
l	Sewage Pumping Station No. 13	1,840	- 1	6,870	8,710	120/208 3Ø
1	Parachute Building	1,040	-	-	1,040	120/208 3Ø
1	Parachute Training Bldg.	320	-	-	320	120/208 3Ø
l	Sewage Pumping Station No. 9	1,820	-	2,534	4,354	120/208 3Ø

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1	Gas & Oil Storage Distribution	600	-	-	600	120/208 3Ø
1	Pump House Labor Camp in Ind. & Supply Area	380	-	-	380	120/208 3Ø
1	Post Exchange	8,410	-	-	8,410	120/240 1Ø
1	Administration	4,350	-	1,210	5,560	120/240 1Ø
l	Mess Hall	30,810	37,500	51,969	120,279	120/208 3Ø
4	"H" Type Barracks	60,720	-	15,852	76,572	120/208 3Ø
1	Storage Bldg. 1704	2,400	-	· -	2,400	120/240 1Ø

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NO. UNIT	TYPE OF BUILDING	INSTALLED LIGHTING IN WATTS	INSTALLED HEATING IN WATTS	INSTALLED POWER IN WATTS	TOTAL LOAD IN WATTS	SERVICE VOLTAGE
1	Storage Bldg. 1705	2,400	-	-	2,400	120/240 1ø
1	Telephone Storage Bldg.	2,640	-	-	2,640	120/240 1ø
l	Communications Bldg.	6,960	-	1,048	8,008	120/240 1ø
l	Warehouse 1606	25,200	-	1,910	27,110	120/208 3Ø
1	Laundry Extension	2,380	-	-	2,380	120/240 1ø
l	Storage Bldg. 1410	3,160	-	-	3,160	120/240 1ø
1	Storage Bldg. 1409	2,820	-	14,511	17,331	120/208 3Ø
ì	Lumber Kiln	2,520	-	8,440	10,960	120/208 3Ø
l	Warehouse 1108	36,780	-	1,910	38,690	120/208 3Ø
l	Office Building	31,840	19,000	18,385	69,225	120/208 3Ø
l	Mess (Cafeteria)	6,080	-	15,040	21,120	120/240 1Ø
l	Bakery	-	40,500	955	41,455	120/208 3Ø
1	Heating Plant at Parachute Training School	-	-	9,163	9,163	120/208 3Ø
l	Central Heating Plant	-	-	5,389	5,389	120/208 3Ø
l	Med. Warehouse	2,000	-	-	2,000	120/240 1ø
4	Battalion Warehouse	8,000	-		8,000	120/240 1ø

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NO. UNIT	TYPE OF BUILDING	INSTALLED LIGHTING IN WATTS	INSTALLED HEATING IN WATTS	INSTALLED POWER IN WATTS	TOTAL LOAD IN WATTS	SERVICE VOLTAGE
l	Battalion Headquarters	13,165	-	4,491	17,656	120/208 3Ø
8	Barracks	433,040	-	46,984	480,024	120/208 3Ø
l	Mess Hall	30,810	37,500	51,969	120,278	120/208 3Ø
l	Service Club	43,254	-	8,333	51,587	120/208 3Ø
1	Infirmary	34,545	32,400	7,663	74,608	120/208 3Ø
2	B. Q. Q.	69,090	13,500	55,396	137,986	120/208 3ø
l	Uniform Shop	15,100	2,250	4,589	21,939	120/208 3ø
1	Bus Terminal	7,530	-	1,627	9,157	120/208 3Ø
26	School	81,460	-	-	81,460	120/240 1ø
1	By Pass Pumping Station	260	-	-	260	120/240 1ø
1	Mark I Gunnery Trainer	11,323	-	20,365	31,688	120/208 3ø
1	Fresh Water Supply System	-	-	47,734	47,734	208 3Ø
11	Barracks Alterations 1st Reg. Area	4,200	136,500		140,700	120,208 3ø
6	Warehouse Alterations 1st Reg. Area	41,040	-	-	41,040	120/240 1ø
1	Uniform Shop in Mess Hall lst Reg. Area	2,475	-	-	2,475	120/208 3Ø

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NO. UNIT	TYPE OF BUILDING	INSTALLED LIGHTING IN WATTS	INSTALLED HEATING IN WATTS	INSTALLED POWER IN WATTS	TOTAL LOAD IN WATTS	SERVICE VOLTAGE
1	Beauty Shop in Battalion Warehouse	9,950	-	-	9,950	120/208 3Ø
1	Alterations Shop in Battalion Warehouse	1,460	8,250	19,797	29,507	120/208 3Ø
. 1	Sewage Treatment Plant	-	9,000	-	9,000	120/208 3ø
1	Tailor & Cobbler Shop	3,370	1,500	7,591	12,461	120/208 3Ø
12	Storehouse for PX Hostess House & Service Club	1,200		-	1,200	120/1ø
2	Swimming Pool	46,980	-	124,912	171,892	120/208 3Ø
1	Red Cross	9,809	-	1,788	11,597	120/208 3Ø

Total for Division Training Area

2,154,278

H-20.02. Naval Hospital.

- 1006 -

1	Storage Garage	1,680	-	-	1,680	120/208 3Ø
1	Central Heating Plant	460	-	19,547	20,007	120/208 3Ø
1	Corpsmen's Barracks	-	3,000	-	3,000	120/208 30
1	B. O. Q.	100	-	1,260	1,360	120/208 3Ø

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INSTALLED POWER IN WATTS INSTALLED HEATING IN WATTS TOTAL INSTALLED SERVICE VOLTAGE LOAD IN WATTS LIGHTING IN WATTS TYPE OF BUILDING NO. UNIT 120/208 30 735 735 1 Garage 208 3Ø 1,056 1,056 Gas Pump 1 27,838 Total for Naval Hospital

- I	H-20.03. Officers' Quarters An	ea.					
1	Signal School	-	-	50,000	50,000	120/208 3Ø	
1	Bachelor Officers' Mess	12,600	-	23,486	46,086	120/208 30	
3	Barracks	4,800	-	-	4,800	120/240 1Ø	
1	Wash Room	2,380	-	594	2,974	120/240 10	,
2	Finger Piers	1,000	-	-	1,000	120/240 1Ø	
		Total for	Officers' Quar	ters Areą	104,860		
	H-20.04. Signal School Area.						
1 3 2 1 2	Mess Hall Barracks Schools Water Tank Wells Heating Plant	22,030 45,540 6,220 1,620 5,360	48,000 - 1,000	39,803 11,883 - 16,802 19,857	109,833 57,429 6,220 2,620 16,802 25,217	120/208 30 120/208 30 120/240 10 120/240 10 120/208 30 120/208 30	
1	neating riant		or Signal School	Area	218,121		

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H=20	0 5. Barrage Balloon An				
NO.	TYPE OF	INSTALLED LIGHTING	INSTALLED HEATING	INSTALLED POWER	TOTAL LOAD
UNIT	BUILDING	IN WATTS	IN WATTS	IN WATTS	IN WATTS

100

11,040

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H-20.06. Amphibian Base.

P.X. Storehouse

Boiler House

Heating Plant

Gas Generator Shed

1 Carpenter Shop 2,291 120/208 3Ø 2,291

Total for Barrage Ballcon Area

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Stragger William Stragger

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H-20.07. Rifle Range Area.

1	Mess Hall	22,030	48,000	39,803	109,833	120/240 10 240 30
6	Wash Rooms	14,280	- 1	3,654	17,844	120/240 1ø
16	Platoon Barracks	25,600	-	-	25,600	120/240 1ø
1	Heating Plant	1,160		4,583	5,743	120/208 3Ø
7.	Administration	3,770	-	-	3,770	120/240 1Ø

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NO. UNIT	TYPE OF BUILDING	INSTALLED LIGHTING IN WATTS	INSTALLED HEATING IN WATTS	INSTALLED POWER IN WATTS	TOTAL LOAD IN WATTS	SERVICE VOLTAGE
1	Post Exchange	3,250	-	10,000	13,250	120/240 1ø
1	Warehouse	1,600	-	-	1,600	120/240 1ø
1	Well	-	· -	10,311	10,311	120/208 3Ø
1	Sewage Pumping Station #11	440	-	6,870	7,310	120/208 3Ø
	Street Lights	600	-	-	600	120 1Ø
4	Schools	12,440	-	-	12,440	120/240 1Ø
1	Heating Plant for White Troc	ops -		10,821	10,821	120/208 3Ø
1	P.X. Storehouse	100	~	-	100	120 1Ø

Total for Rifle Range Area

219,222

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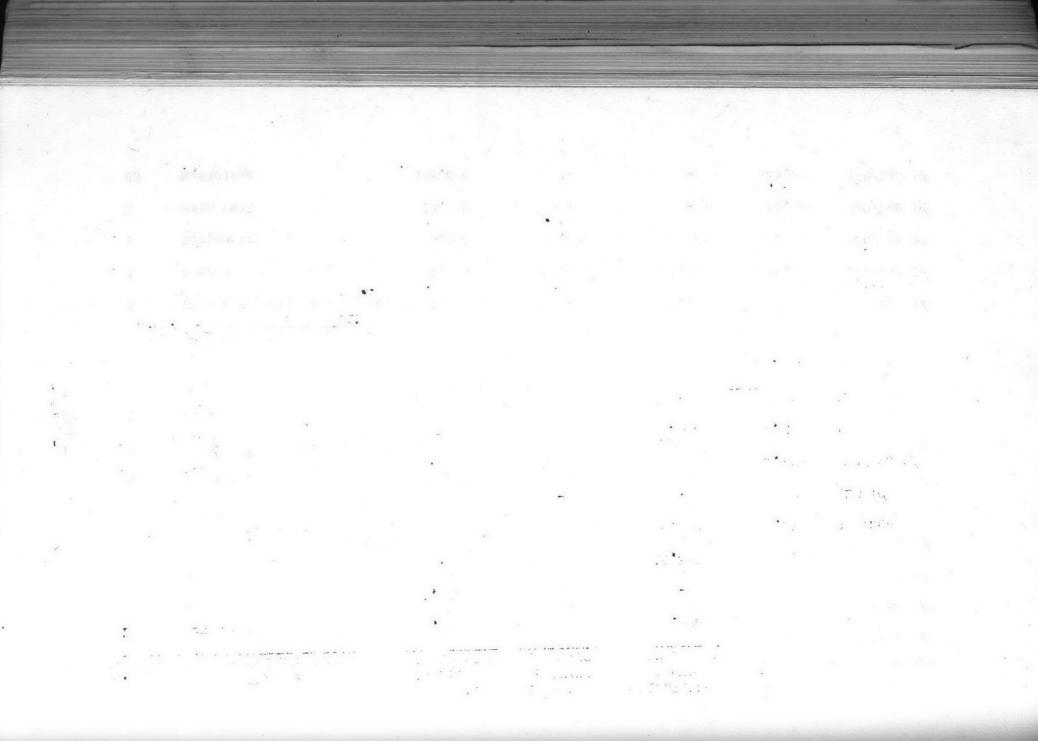
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H-20.08. Dog Training Area.

1	Sewage Pumping Station No. 1	2 1,830	-	10,120	11,950	120/240 10
1	Kenne l	7,260	37,500	1,738	46,498	120/208 3Ø
1	Dispensary	3,560	19,800	1,738	25,098	120/208 3Ø
3	Mess Hall	13,050	-	-	13,050	120/240 1Ø
83	Buildings	128,300	-	-	128,300	120/240 1Ø



NO. UNIT	-	TYPE OF BUILDING	1	INSTALLED LIGHTING IN WATTS	INSTALLED HEATING IN WATTS	INSRALLED POWER IN WATTS	TOTAL LOAD IN WATTS	SERVICE VOLTAGE
2	Wells			-		9,661	9,661	120/208 3Ø
2 /	Mess	Halls		-	-		6,400	
				Total for Dog	Training Area		240,957	
H·	-20.09.	Montford Poi	nt No. 1					

Obstruction lights for water tank 100 120 1ø 100 -5,728 5,728 240 3Ø 1 Heating Plant -1 P.X. Storehouse 100 100 120 10 -

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Total for Montford Point No. 1

5,928

ŀ	1-20.10. Montford Point N	0.2.				120/240 10 L.
1	Mess Hall	22,030	48,000	39,,803	109,833	240 3Ø P.
2	Gun Sheds	1,320		-	1,320	120/240 1Ø
2	Warehouses	4,040	-		4,040	120/240 1Ø
1 .	Administration	6,320	-	891	7,211	120/240 1Ø

O. NIT	TYPE OF BUILDING	INSTALLED LIGHTING IN WATTS	INSTALLED HEATING IN WATTS	INSTALLED POWER IN WATTS	TOTAL LOAD IN WATTS	SERVICE VOLTAGE
3	Central Heating Plant	1,480	-	4,582	6,062	120/208 3Ø
1 /	Demonstration	5,920	65,500	13,440	84,860	120/208 30
6	Wash Rooms	14,280	-	3,564	17,844	120/240 1Ø
19	Platoon Barracks	30,400	-	-	30,400	120/240 1ø
2	Wells	-		16,802	16,802	120/208 3 Ø
	Obstruction Lights for Water Tank	100	-	-	100	120 1Ø
	Street Lights	1,500	-		1,500	120 1¢
		Total for 1	Montford Point	No. 2 -	279,970	

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H-20.11	Montford	Point	No.	2A
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1	B. O. Q.	34,680	14,100	27,698	76,478	120/208 3Ø
٦	Heating Plant	660	-	8,401	9,061	120/208 3Ø
5	Platoon Barracks	8,000	-	-	8,000	120/240 1\$
2	Wash Rooms	4,720	-	1,188	5,908	120/240 10
1	P.X. & Mess	18,810	12,600	22,560	53,970	120/208 3Ø
T	L .V. C MORD	,				

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	Street Lights	750	-	-	750	120 1Ø
1	Sewage Pumping Station	420	-	6,870	7,290	120/208 3Ø
		Total Montf	ord Point No.	2 A	161,457	
H	-20.12. Montford Point No.	3				
2	Mess hall	61,620	75,000	100,738	237,358	120/208 3Ø
9		×				
2	Warehouses	4,040	-	-	4,040	120/240 1ø
24	Warehouses Wash Rooms	4,040 57,120	-	-	4,040 71,376	, , ,
			-	- 14,256 -		120/240 1ø 120/240 1ø 120/240 1ø

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1	Brig		5,530	-	528	6,058	120/208 3Ø
1	Administration		11,740	-	-	11,740	120/208 3Ø
1	Hostess House		15,765	12,600	13,500	41,865	120/208 3Ø
1	Theatre	× 0	75,810	-	33,878	109,688	120/208 3Ø
l	Decontamination	· ·	- 2,760	-	19,814	22,574	120/208 3Ø
1	Infirmary		38,560	41,800	11,755	92,115	120/208 3Ø

NO. UNIT	TYPE OF BUILDING	INSTALLED LIGHTING IN WATTS	INSTALLED HEATING IN WATTS	IMSTALLED POWER IN WATTS	TOTAL LOAD IN WATTS	SERVICE VOLTAGE
1	Sewage Treatment Plant	5,750	5,000	-	10,750	120/240 10
2	Wells	-	-	17,147	17,147	120/208 3¢
2	Gun Sheds	1,320	-	-	1,320	120/240 1\$
3	Schools, M-123, 125 & 126	9,960	**	-	9,960	12 9/ 240 1ø
1	School M-124	3,960	-	-	3,960	120/240 1Ø
1	Personnel Class. Bldg.	3,840	-	-	3,840	120/240 1Ø
1	Swimming Pool	23,490	· •	64,318	87,808	120/208 3Ø
		Total for Mont	ford Point No.	3	955 398	

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	H-20.13. Tent Camp No. 1.					120/240 1d +
1	Boiler House	-	-	2,094	2,904	120/240 10 L. 240 30 P.
	H-20.14. Tent Camp No. 2.					
1	Beiler House	-	-	11,405	11,405	120/240 3Ø
	H-20.15. Glider Base.					
1	Heating Plant		-	4,583	4,583	120/208 3Ø

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H-20.16. SUMMARY OF ADDITIONAL LOADS

Division Training Area	2,142,681	Watts.
Naval Hospital	27,838	15
Officers + Quarters Area	104,860	11
Signal School Area	218,121	81
Balloon Barrage Area	24,252	11
Amphibian Base	2,291	r tt
Rifle Range Area	219,222	11
Dog Training Area	240,957	**
Montford Pcint No. 1	5,928	11

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Montford Foint No. 2		279,970	11
Montford Point No. 24		161,457	tt
Montford Point No. 3		955,398	*1
Tent Camp No. 1		2,904	**
Tent Camp No. 2		11,405	**
Glider Base	Total	4,583	11 17
	Reported in Volume I; P. 309 - Total Load	24,8 57,379 29,259,246	11 85 77

CHAPTER I - PART II

PLUMBING

I-1. Drainage and Vent Systems. In general all drainage and vent systems installed under the program covered by this Wolume of the report were designed in accordance with the standards set forth in Section I-1 of Volume No. I. We have however, under this program, wherever structures would allow, installed individual vents on all plumbing fixtures to assure the best possible evacuation of the lines. Due to the national program instituted in the interest of the conservation of critical materials we revised our specification procedure to admit the use of "Victory" cast iron soil pipe in lieu of the "Extra Heavy" pipe formerly used.

I-2. Water Services. The general statements set forth in Section I-2 of Volume I apply to the work covered by this volume except that in the latter designs we have provided separate control of the water lines for fire protection service by means of "Underwriters" approved lock-type values.

I-3. Fire Protective Systems. Section I-3 of Volume I applies to the work done under the program covered by this volume.

I-4. Hot and Cold Water Piping. Section I-4 of Volume I applies to the work done under the program covered by this volume.

I-5. Hot Water Storage Tank and Generator. The hot water requirements of the buildings constructed under the program covered by this volume were set up by careful scrutiny of the probable use to which the fixtures in the buildings might be put in light of the number of inhabitants and the function of the building. The answers thus arrived at were checked against the table appearing in Section I-5 of Volume I and in some cases a mean between the two methods of approach was taken.

I-6. Hot Water Circulating Pumps. Hot water circulating pumps have been installed in a few buildings where length of run and type of load have dictated there use. They have in all cases have been thermally controlled.

I-7. Plumbing Fixtures. Under the program covered by this volume of the report the restrictions imposed on critical material have practically eliminated from the market such items as Enameled Iron Ware, Brass Rixtures, Galvanized Galley and Scullery Sinks and we have had to substitute in their stead Vitreous China or Vitrified Clay Ware, Cast Iron Fixtures and Galley and Scullery sinks constructed of black steel with wood drains. Numerous other substitutions of material have had to be made in accordance with emergency directives issued by the Bureau of Yards and Docks, The War Department, and The War Production Board.

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CHAPTER J - PART II

CENTRAL HEATING PLANTS

1-1. Design and Performance Data.

J-1.01 Since completion of the Central Heating Plant, additional nilitary units and facilities have been constructed and connected with the steam system as follows: The buildings in the Momen's Area, photo shop, two station, Mark I cunnery, swiming pools, and a uniform shop in the perimental area; a dry kiln, commissary warehouse, post warehouse, decontamination building, laundry extension, buildings for labor camp. Public Works office and mess hall in the Industrial Area; will be supplied by steam from the Central Heating Plant.

Following a recent decision to serve the Naval Hospital and the Naval Maspital B. O. Q. from the Central Heating Plant, a steam transmission main to this area is now under construction.

J-1.02. Total Connected Load. Since the addition of the above units the total steam demand has been materially increased. A complete tabulation of heat requirements in B.T.U's per hour, revised to include all of the units and facilities connected to date is shown below.

	Heating	Hot water	Process	
ndustrial (incl. Labor Camp &	¢.			
P.W. Office)	27,452,000	22,672,860	12,816,500	
ost Troop & Women's Area	23,808,820	24,544,700	6,257,000	
cgimental Area #1	18,552,280	14,236,200	8,140,000	
egimental Area #2	23,852,400	15,378,000	8,140,000	
egimental Area #3	17,748,640	15,756,960	8,250,000	
gimental Area #4	16,528,320	13,893,000	8,140,000	
egimental area #5	15,974,000	13,893,000	8,140,000	
aval Hospital	23,878,066	7,995,181	8,459,150	
. O. Q. Hospital	516,520	472,940		
	168,311,050	128,842,840	68,342,650	

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J-1.03. Maximum Steam Demand. The maximum steam under the revised load conditions is estimated to be.

Heating	169,1
Hot Water	88,2
Process	68,30
Distribution Losses	12,9
Boilor House Auxiliaries	
& Feed Water Heating	19,00
Total	357,5

This load can be carried by three boilers each generating 120,000 Pounds of steam per hour. However, it will be necessary to use four boilers for safe operation under maximum load conditions.

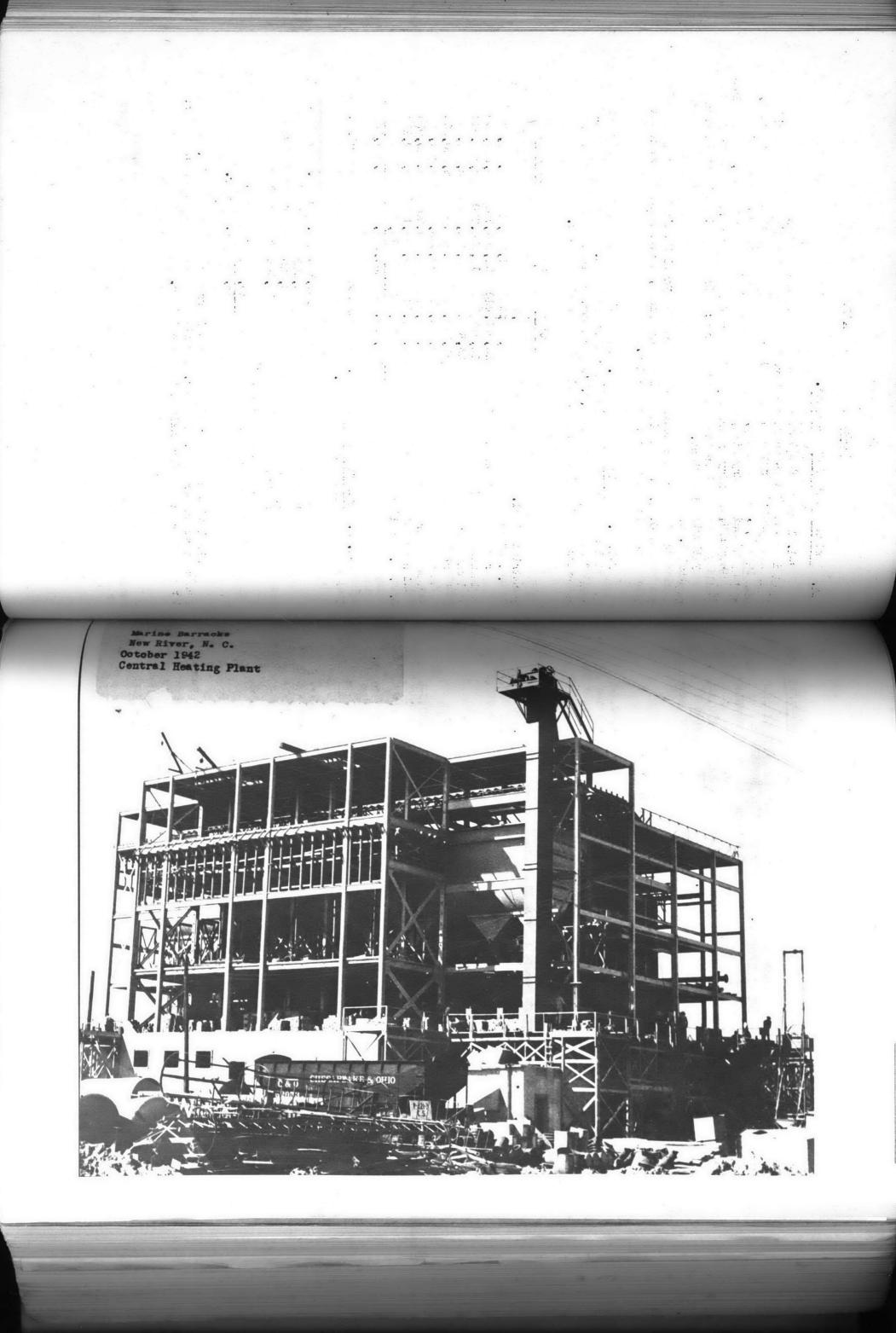
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1-2. Estimated Fuel Requirement.

J-2.01. Estimated Fuel Requirement. The annual fuel requirements, revised to include the additional loads with overall plant efficiencies as stated elsewhere herein, are as follows:

J-2.02. Heating. The heating connected load at 168,311,050 B.T.U. per hour will require, on the basis of 70°F inside and 10°F outside, design temperature with a total of 2300 degree days, 7175 tons of coal per year.

168,311,050 x 24 x 2300 = 7175 tons of coal per yr. (70-10) x 13,500 x .80 x 2000

J-2.03. Hot Water. The hot water heating connected load at 128,842,840 B.T.U. per hour will require, on the basis of 6 hours average use per day, 13,050 tons of coal, estimated as follows:

128,842,840 x 6 x 365 = 13,050 tons of coal per year 13,500 x .80 x 2000

J-2.04. Process Steam. The process steam connected load at 68,342,650 B.T.U. per hour will require, on the basis of 7 hours average useper day, 8,070 tons of coal per year, estimated as follows:

68,342,650 x 7 x 365 = 8070 tons of coal per yr. 13,500 x .80 x 2000

J-2.05. Distribution Losses. The steam distribution losses at 12,740,000 B.T.U. per hour will require 5160 tons of coal per year estimated as follows:

$12,740,000 \ge 365 \ge 24 = 5160$ tons of coal per yr. 13,500 x .80 x 2000

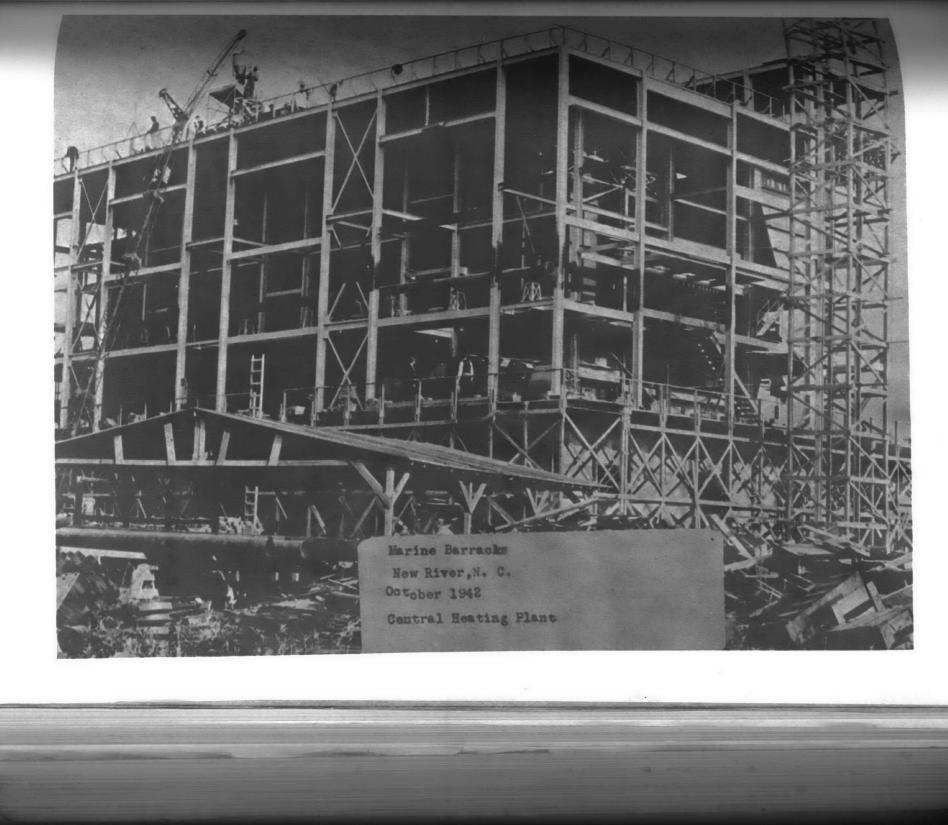
J-2.06. Feed Water Heating. The feed water heating will require on the basis entering temperature of water 143°F, approximately 3139 tons of coal per year estimated as follows:

Heating			7,175	Tons
Hot Water			13,050	11
Process			8,070	12
Losses			5,160	
Total			33,455	Tons
33,455 x 75	B.T.U.	=	3139 ta	ons o

.80 x 1000 water heating.

J-2.07. Annual Fuel Consumption.

3139 tons of coal per year for feed



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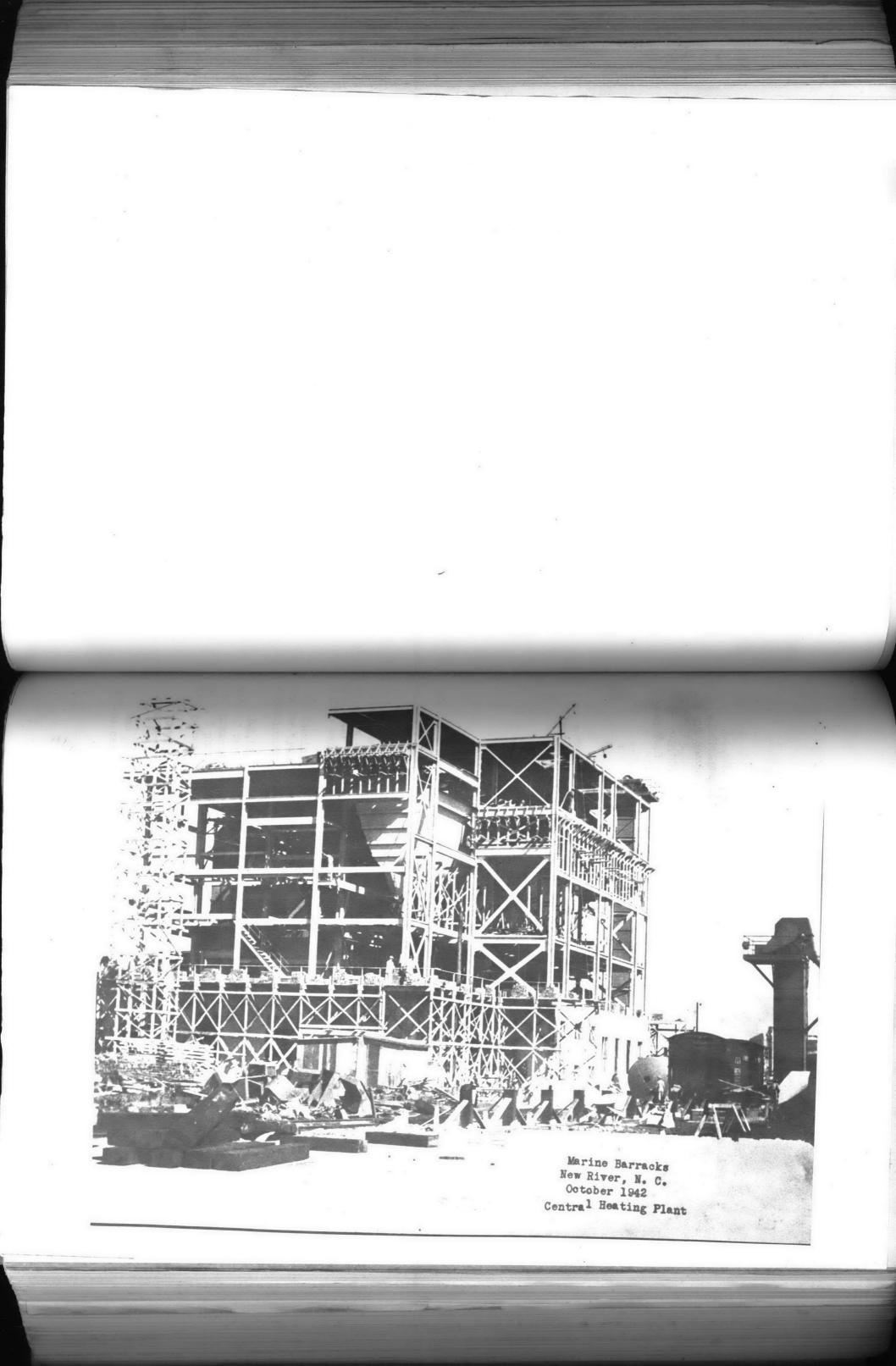
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Heatir	ng, hot	water,	process,	losses	=	33,4
	rater ho				=	3,3
Total	annual	fuel c	consumptio	n	=	36,7

J-2.08. Minimum Loads With Oil Fuel. The summer and winter minimum load conditions will be the same as indicated in the original report and the fuel oil consumption will be approximately the same amount.

J-2.09. Tabulation of	Monthly Fuel Cor	sump	tion
of fuel consumption due	to increased load	l con	dition
	Oil		Coa
January	540 bbls		459
February	540	•	388
March	540		424
April	1360		282
May	1360		212
June	1360	1	212
July	1360		212
August	1360		212
September	1360		212
October	1360		247
November	540		282
December	540		388
	12,220 bbls.		35,34

J-3. Food Water Troatment.

J-3.01. Chemical Treatment. In the "Report on Feedwater Treatment for the various Heating Plants of the U. S. Marine Barracks" prepared by Shoppard T. Powell; he recommended that disodium phosphate be fed to the boiler drums for the prevention of scale, sodium sulphite for the removal of traces of oxygen, also that sodium hydroxide be injected into the boiler feed water for the correction of P.H., as a secondary treatment to the Zoolite water softener already provided.

Chemical feed pumps, solution tanks, and all other necessary equipment for treating the feedwater as outlined in the report was purchased from Proportioneers Inc. and installed in the plant.

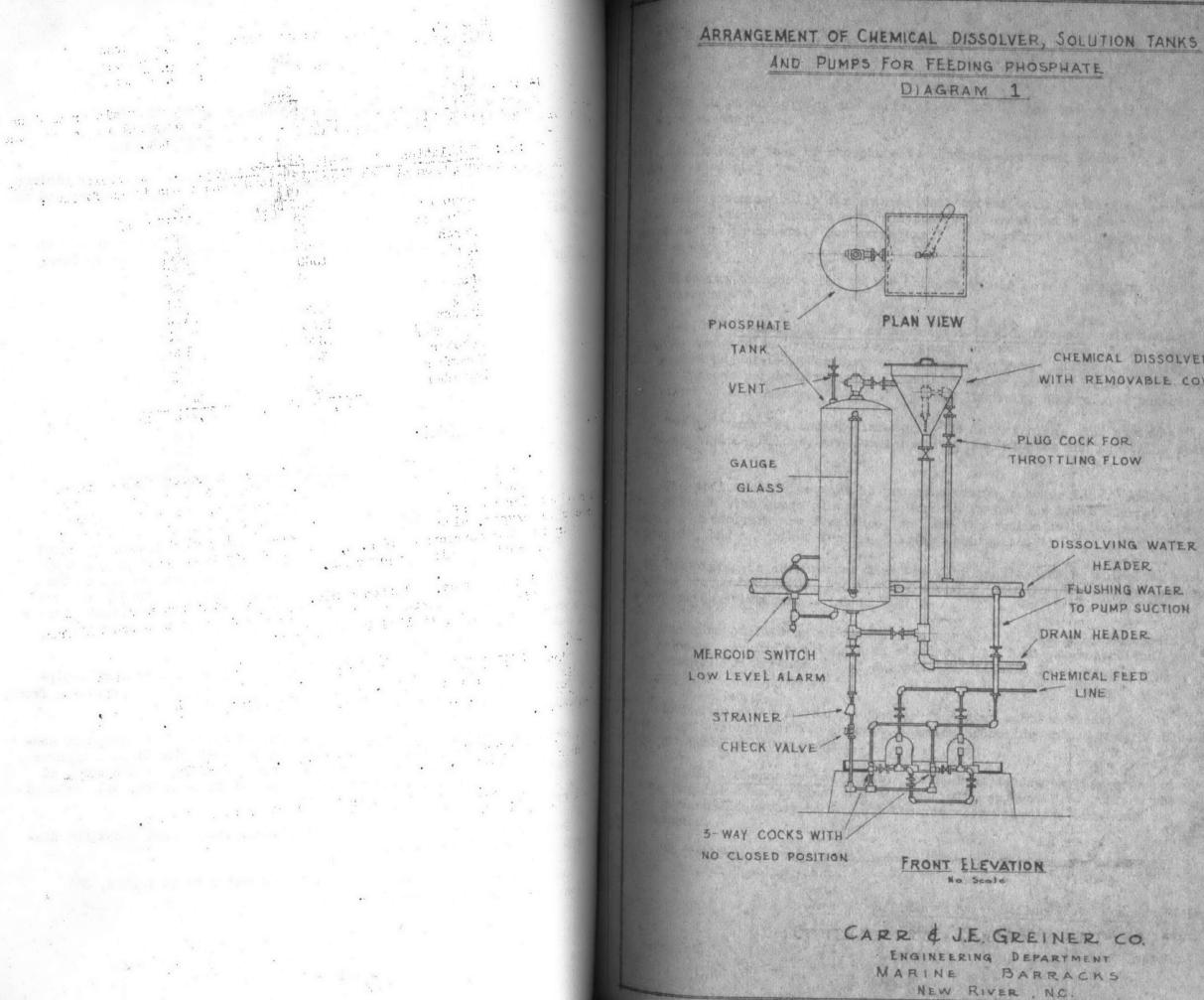
J-3.02. Phosphate Feed Equipment. The phosphate feed equipment consists of three (3) Proportioner 2 x Series Adjust-O-Feeder Simplex Plunger Type chemical pumps driven by General Electric 1 H.P. Type K 208 volt, 60 cycle, 3 phase, 1725 R.P.M. motors through #5B Winfield Smith, oil enclosed speed reducers.

Pumps have a capacity of from 5 to 51.4 g.p.h. against a maximum discharge pressure of 350 p.s.i.

One phosphate solution tank 42 inches diameter by 54 inches, 300 Gallons capacity is provided.

155 tons 329 tons 784 tons The revised tabulans is as follows: al 94 tons 88 42 27 20 21 22 21 20 75 27 88

45 tons



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CHEMICAL DISSOLVER WITH REMOVABLE COVER

PLUG COCK FOR THROTTLING FLOW

> DISSOLVING WATER HEADER FLUSHING WATER TO PUMP SUCTION

DRAIN HEADER

CHEMICAL FEED LINE

The pumps and piping are arranged so that either one or all pumps can be used at one time.

The rate of feed of phosphate is controlled to each boiler by a Hancock Flocontrol valve.

The system is built for intermittent operation. Connections are provided for flushing out the entire system with fresh water after feeding the disodium phosphate. For arrangement of Phosphate Feed System see Diagram 2.

Disodium phosphate fed to the boilers should have a solution strength of 3 percent.

J-3.03. Sodium Sulphite and Hydroxide Feed Equipment. The sodium sulphite and sodium hydroxide feed system consists of three (3) Proportioner 1 X Serie's Adjust-O-Feeder Simplex Plunger Type Pumps having a capacity of 3 to 5 gallons per hour against 50 lbs. pressure gearhead drive. Each pump is driven with a Master 1/4 H. P. Type RA. 120 volt, 60 cycle, 1 phase motor.

Two (2) tanks 24 inches diameter by 54 inches high; each having a capacity of 100 gallons, are furnished for the sulphite and hydroxide solutions.

The sodium sulphite tank is provided with a bubbler tank. All tanks are equipped with gauge glasses and Mercoid switch low level alarms. Two chemical dissolvers are furnished, one for the sodium sulphite and sodium hydroxide, and the other for the disodium phosphate.

The piping is arranged so that one pump handles sodium sulphite, one handles sodium hydroxide, and the third can be used to pump either sulphite or hydroxide solutions.

The rate of feeding chemicals is controlled by changing the capacity of the pumps by varying the length of strokes. The feed is proportional and continuous. For Arrangement of Sulphite and Caustic Feed Systems see Diagram 2.

Sodium sulphite fed to the boiler feed pump suction header should have a solution strength of 2.5 percent. Sodium hydroxide should have a solution strength of 5.0 percent.

J-3.04. Laboratory and Tests. A chemical laboratory has been set up in the Central Heating Plant and equipped with apparatus to perform the routine tests necessary to control the secondary chemical treatment as recommended.

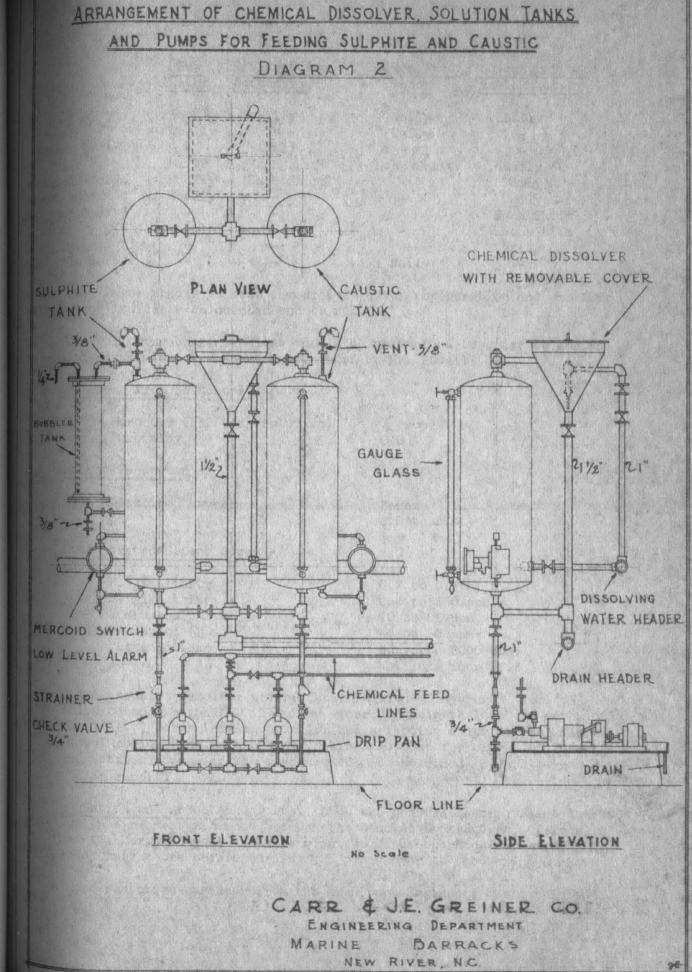
The following schedule is suggested for the performance of the tests in the Central Heating Plant.

	Raw Water	Effluent from Softeners	Boiler Fo Water
P. Alkalinity	-	Daily	Daily
		1019 -	

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Feed Concentration Boiler Water

Daily



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	Raw	Effluent from	Boiler Feed	Concentration
•	Water	Softeners	Water	Boiler Water
. Alkalinity	Weekly	Daily	Daily	Daily
ardness (D + D)	Weekly	24	Daily	-
Hardness (B & B)	-	(1)	-	<u>+</u>
and the second	Daily	Each Shift	Each Shift	Daily
odium Chloride	Weekly	Each Shift		Daily
Sodium Sulphate	Weekly		-	Daily
Sodium Sulphite	-	-	-	Each Shift
phosphate	-	-	-	Each Shift
Total Solids		→	-	Daily
Dissolved Solids	-	-	Daily	+

(1) Tests should be made immediately after regeneration and one hour before meter indicates calculated end of run.

The following concentrations should be maintained in order to control the secondary chemical treatment recommended by Mr. Powell:

Effluent from Softeners -

Hardness (B&B Soap Solution) Turbidity

Boiler Feedwater -

START ALL OF THE START AND START

Dissolved oxygen pH

Concentrated Boiler Water -

P. Alkalinity M. Alkalinity Sodium Sulphite Phosphate (PO4) Total Solids pH

The methods of sampling water; determination of hydrogen ion (pH), sodium sulphite and phosphates in boiler water, phenolphthalein and methyl orange alkalinity, determination of chlorides as sodium chloride, soluble solids, total solids; instructions for making the test for oxygen in feedwater, and total hardness by the soap method; is explained in detail in Mr. Powell's report.

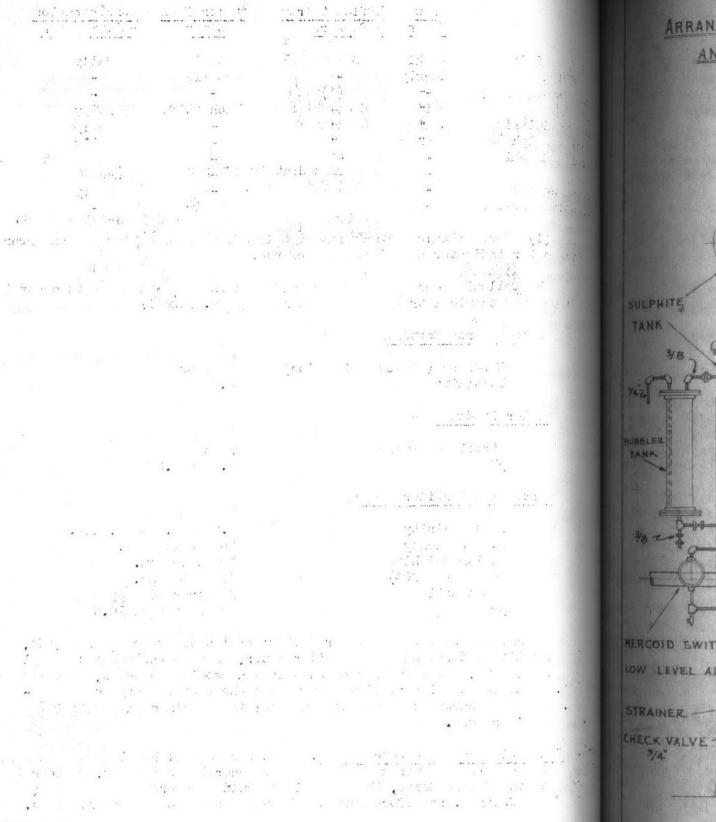
d-4. Completion and Acceptance Tests. Then the Central Heating Plant neared completion an agreement was made between the General Contractors, Officer in Charge and the Marine Corps, that the plant would be operated for sixty (60) days by the Contractors before turning the plant over to the Marine Corps.

A representative engineer from the Architect-Engineers was appointed

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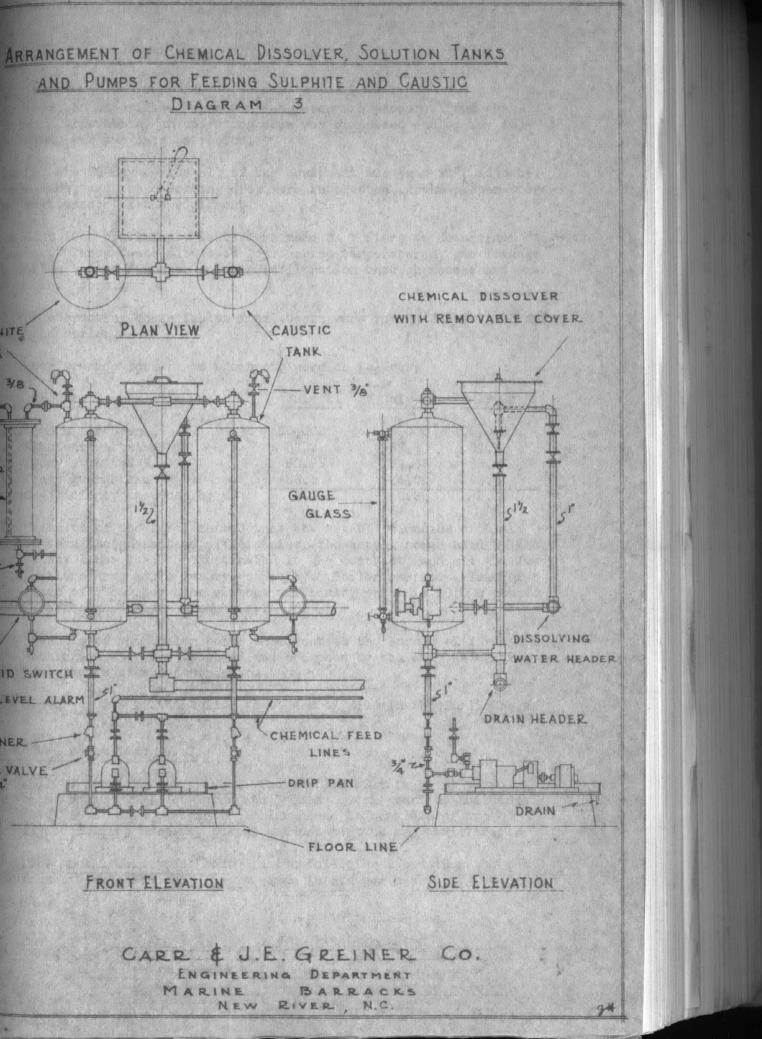
0.7 to 0.9 of M. Alk. 250 to 350 ppm. 10 to 20 ppm. 40 to 50 ppm. Not over 2000 ppm. Not less than 10.6



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AND PUMPS FOR FEEDING SULPHITE AND CAUSTIC DIAGRAM 3 HO PLAN VIEW CAUSTIC TANK -VENT 3/4 GAUGE 1/27 GLASS ERCOID SWITCH LOW LEVEL ALARM CHEMICAL FEED LINES DRIP PAN FLOOR LINE

CARR & J.E. GREINER CO. ENGINEERING DEPARTMENT MARINE NEW RIVER N.C.



as supervisor, an experienced operating engineer was procured from the Riley Stoker Corporation, an operating crew was organized and on May 10, 1943 the plant was put into operation.

During the 60-day period all of the equipment was "run in", adjustments were made, and the operating drew wore instructed in the proper operation and maintenance of the equipment.

On June 10th preliminary tests were made on boilers to determine efficiencies. These tests disclosed low furnace temperatures, gas leakage through boiler bypass dampers, and air infiltration through access and explosion relief doors.

After correcting these faults final tests were run on July 21, 23 and 28th., on one boiler.

Tular 21

The performance results of the tests were as follows:

Date of Test	July 21
Load lbs. steam por hour	50,000
Overall efficiency attained %	88.2
Net officiency attained %	83.91
Net efficiency guaranteed %	83.1
Guaranteed efficiency exceeded by %	0.81

The results of the tests showed that the net efficiencies attained were higher than the guaranteed efficiencies, the actual power used by the auxiliaries was lower than that estimated in the contract, and all auxiliaries and boilers have ample reserve capacity. Boiler carried a load of 130,000 pounds of steam per hour without difficulty which is 10,000 pounds more than the designed maximum capacity.

The results of the boiler tests were sent to the Bureau of Yards and Docks in Washington and were approved and accepted by the Navy as meeting all the requirements of the contract.

Complete results of the boiler tests are on file in the Public Works Office.

J-5. Montford Point Camp No. 2.

J-5.01. Central Heating Plant. The purpose of this plant is to provide steam for heating, hot water and process to the various buildings in this area. Located in a separate boiler house it consists of two mechanically coal fired boilers, pumps, condensate tank and auxiliaries.

J-5.02. Total Connected Load. In the following tabulation the total heat requirements for each building is given in Btu per hour.

July 23	July 28
75,000	100,000
87.8	87.1
84.38	83.67
84.0	83.0
0.38	0.67

Building	Heating	Hot Tater	Process	Total
Moss Hall	803;000	11365,000	592,000	2,760,000
Toth Rooms (6)	819,000	5,460,000	-	6,279,000
administration	199,800	83,100	-	282,900
Demonstration	148,000	809,250	145,800	1,103,050
Total	1,969,800	7,717,350	737,800	10,424,950
Distrib	ution Losses	- 131,100 Btu	a per hour.	
Total Co	onnected Load	- 10,556,050) Btu per hour,	
		and an a many ships and some supported a radius provided a processory days	and the second se	

J-5.03. Estimated Fuel Requirements. The annual fuel requirements have been estimated and tabulated below. The overall boiler efficiency is estimated to be 60% average with coal having a heating value of 13,500 Btu per pound as fired.

Heating	1,969,880 x 24 x 2,300 60 x 13,500 x 0,6 x 2,000	=	112 tons per year
Hot Mater	7,717,350 x 6 x 365 13,500 x 0.6 x 2,000	=	1041 tons per year
Process	737,800 x 7 x 365 13,500 x 0.6 x 2000	Ħ .	116 tons per year
	on 131,100 x 24 x 365 13,500 x 0.6 x 2000	H	71 tons per year

Total Coal Required thus = 1,340 tons per year

J-5.04. Boilers. There are two portable, return tubular, fire box boilers manufactured by Farrar & Trefts Company and designated as Bison No. 574, they are fired by mechanical coal stokers, rated at 89 H. P. with a heating surface of 893 sq. ft. and built for 125 p.s.i. working pressure. Standard trim, including water column, gauge glass, pressure gauge, injector and blow-off connections is provided.

J-5.05. Breechings and Chimney. The boilers are connected with the chimney by a 35 x 42 inch breeching, the brick chimney is 3'-0" x 3'-10" inside by 70 feet high.

J-5.06. Combustion Equipment. The boilers are fired by two Iron Fireman Corporation No. 4 Coal Stokers of the worm feed type and hopper capacity of 750 pounds each. They are driven by 2 H. P. electric motors. The operation of the stokers is fully automatic, regulated by steam pressure actuated controls with Johnson feedwater controls providing cut-off switches at lowwater level.

J-5.07. Boiler Feedwater System.

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The Condensate Receiver of 560 gallons capacity has two submerged heaters; one unit is a heater coil supplied by exhaust steam from the boiler feed pumps; the other consists of a perforated tube element discharging high pressure drip returns into the receiver water. Low pressure andensate is returned to the receiver through the condensate return system eron the various buildings. Raw water make-up is automatically controlled by relectrically operated Johnson make-up valve on the receiver.

Boiler Feedwater Pumps are Worthington Pump & Machinery corporation Model VC, steam driven reciprocating pumps of 13 g.p.m. capacity soch. Boiler feed water level is maintained by a Johnson feed water control.

J-5.08. Boiler House Piping is installed in accordance with Navy specification 66-Pla and 21Yc. Piping is welded wherever practicable in lieu of flanged and screwed fittings.

J-5.09, Coal Storage Yard of approximately 450 tons or two months supply at full load is provided.

J-6. Montford Point Camp No. 2A.

J-6.01. Central Heating Plant. The purpose of this plant is to provide steam for heating, hot water and process to the various buildings in this area. Located in a separate boiler house it consists of a mechanically fired coal burning boiler with condensate receiver, boiler feed pump and accessories.

Steam distribution and condensate return systems are overhead on wood poles and are described in Section G-2 of the former report and supplements thereto.

J-6.02. Total Connected Load. In the following tabulation the total heat requirements for each building are given Btu per hour:

Building	Heating	Hot Water	Proce	ess	Total
Mess Hall & PX B. O. Q. Wash Rooms (2) Total	880,890 629.600 273,000 1,783,490	996,000 539,500 1,820,000 3,355,500	209,600 127,300 		2,086,490 1,296,400 2,093,000 5,475,890
Distribut	ion Losses		97,900	Btu per	hour.
Total Con	nected Load	~	5,573,790	Btu per	hour.

J-6.03. Estimated Fuel Requirements. The annual fuel requirements have been estimated and tabulated below. The overall boiler efficiency is estimated to be 60% average with coal having a heating value of 13,500 Btu per pound as fired.

Heating	1,783,490 x 24 x 2,300 60 x 13,500 x 0.6 x 2,00
Hot Water	31355;500 x 6 x 365 13;500 x 0.6 x 2;000
Process	336,900 x 7 x 365 13,500 x 0,6 x 2,000
Distribution Losses	97,900 x 24 x 365 13,500 x 0.6 x 2,000

Total Coal Required Thus = 660 tons per year.

J-6.04. Boiler. This is a portable, horizontal, return tubular, firebox boiler manufactured by the "Kewanee Boiler Corporation" and designated as a "Kewanee Model No. 590". Boiler is stoker fired, rated at 250 H. P., having 2500 square feet of heating surface and built for 125 p.s.i. working pressure. Standard trim including water column, gauge glass, pressure gauge, injector and blow-off connections are provided.

J-6.05. Breechings and Chimney. A 34" x 42" breeching connecting with a brick chimney 3'-4" square by 70 feet high is provided.

J-6.06. Combustion Equipment. The boiler is equipped with an Iron Foreman Corporation Model 54 mechanical stoker of the worm feed type and hopper capacity of 1200 pounds. It is driven by a 7.5 H.P. electric motor and operation is fully automatic being regulated by steam pressure actuated control with a McDonnell No. 150 safety cut-off switch at low water level.

J-6.07. Boiler Feed Water System

Condensate Receiver. The capacity of the receiver tank is 560 gallons and it is provided with two submerged steam heaters; one unit is a heater coil supplied by exhaust steam from the boiler feed pump; the other consists of a perforated tube element discharging high pressure drip returns into the receiver water. Low pressure condensate is returned to the receiver through the overhead system from the various buildings. Raw water make-up is automatically provided by a float cage and make-up valve on the receiver.

Boiler Feed Water Pump. This is a Worthington Pump and Machinery Corporation Model VC, steam driven, reciprocating pump of 13 g.p.m. capacity. Boiler feed water level is maintained by a Copes regulator and pump governor mounted on boiler.

J-6.08. Boiler House Piping is installed in accordance with Navy Specification 66Pla and 21Yc.

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J-6.09. Coal Storage Yard of approximately 175 tons or three weeks supply at full load is provided

1-7. Montford Point Camp No. 3.

J-7.01. Central Heating Plants The purpose of this plant is to provide steam for heating, hot water and process to the various buildings in this comp. Located in a separate boiler house it consists of five mechanically fired coal burning boilers and necessary auxiliaries, a water softening system and mechanical coal handling equipment. Boiler No. 1 is 310 H.P., numbers 21 3. 4, and 5 are each 250 H. P.

Steam distribution and condensate return systems are overhead on wood poles and are described in Section G-2 of Volume 2 of Completion Report.

J-7.02. Total Connected Load. In the following tabulation the total heat requirements for each building are given in Btu per hour.

Building	Heating	Hot Water	Process	Total
2 Mess Halls	3,565;000	5,781,600	2,588,000	11,934,600
24 Wash Rooms	3,276,000	21,840,000	-	25,116,000
1 Theatre & PX	1,851,200	460,800	-	2,312,000
1 Administration	303,700	59,760	-	363,460
1 Infirmary	1,163,900	639,730	427,700	2,231,330
1 Brig	408,900	747,000	-	1,155,900
1 Hostess House	465,000	261,000	362,500	1,088,500
1 Decontamination	202,000	-	55,000	257,000
4 Schools	1,020,000	-	-	1,020,000
1 Personnel Classifi-				
cation	255,000	20,950	-	275,950
1 Swimming Pool	3,048,400	1,485,000	-	4,533,400
Total	13,559,100	21,295,840	3,433,200	50,288,140
M. P. Camp No. 1	2,203,216	976,080	1,730,900	4,910,196
Grand Total	17,762,316	32,271,920	5,164,100	55,198,336
Distribution Losses		1,424,023	B.T.U. per	hour
Total Connected Load		56,622,359	B.T.U. per	

J-7.03. Estimated Fuel Requirements. The annual fuel requirements. have been estimated and tabulated below. The overall boiler efficiency is estimated to be 60% average with coal having a heating value of 13,500 Btu per pound as fired.

· · · · ·	Heating	17,762,316 x 24 x 2,300
		60 x 13,500 x 0,6 x 20
1	Hot Water	32,271,920 x 6 x 365
		13,500 x 0.6 x 2000

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= 4370 tons per year

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Process	5,164,100 x 7 x 365 13,500 x 0,6 x 2000	-	81
Distribution	$\frac{1,424}{1,424} = 0.25 \times 24 \times 365$	/: *	77
Losses	TO DOO X GOO X DOOO		

Total Coal Required thus

J-7.04. Boilers, Boiler No. 1 is a portable, horizontal, pent tube, inter tube boiler manufactured by the E. Keeler Company and designated as a "weeler Model CP". This boiler is stoker fired rated at 310 H. P., having 100 square feet of heating surface and built for 125 p.s.i. working pressure.

Boilers numbered 3, 4 and 5 are manufactured by Farrar and Trefts Company and are designated as "Bison #586". Boiler No. 2 is manufactured by the Kewanee Boiler Corporation, and is designated as a "Kewanee #590". Numbers 2, 3, 4 and 5 are portable, horizontal, return tubular, firebox boilers, coal stoker fired, rated at 250 H. P. each, having a heating surface of 2500 square feet each, and built for 125 p.s.i. working pressure.

Standard trim including water column, gauge glass, pressure gauge, injector and blow-off connections are provided on each of the five boilers.

J-7.05. Breeching and Chimney. A single 10 gauge metal breeching at end of line is 4'-5" x 4'-5", stepped up in size at each boiler, the vent is 5'-9" x 10' x 9" at stack. The chimney is 115' high and 8'-6" in diameter at top.

J-7.06. Combustion Equipment.

Boiler No. 1 is equipped with a Westinghouse Electric & Mfg. Co, side dump underfeed stoker, which is provided with forced draft fan and Ruggles Klingman master and overfire draft regulators.

Boilers Nos. 2, 3, 4 and 5 are equipped with Iron Fireman Corporation Model 54 mechanical stokers of the worm feed type and hopper capacity of 1200 pounds each. These stokers are driven by 7.5 H.P. electric notors, operation is fully automatic, being regulated by steam pressure actuated controls and with a McDonnell No. 150 safety cut-off switch provided for each stoker to protect boilers at low water level.

J-7.07. Boiler Feed Water System.

Condensate Receiver. The capacity of the receiver tank is 1766 Callons, it is provided with a submerged heater which consists of a perforated tube element discharging high pressure drip returns into the receiver water. Low pressure condensate is returned to the receiver through the overhead System from the various buildings. Treated make-up water from the water softening equipment is automatically controlled by a float gauge and valve on the receiver tank,

14 tons per year

71 tons per year

6963 tons per year

Boiler Feed Water Pumps are three Ingersoll Rand Company, mameron Motor pumps" Model 121RV15 electric driven centrifugal pumps of These pumps, connected in series, provide all boilers, feed water level in the individual boilers being controlled by a "Copes" food water regulator and pump governor on each boiler.

1-7.08. Water Treatment Equipment. Boiler feed water make-up is taken from the synthetic Zeolite water softening syste, which is an Elgin double unit consisting of two softener tanks, brine tank and accessories. This system is designed for operation at 100 pounds p.s.i.

1-7.09. Boiler House Piping is installed in accordance with Navy Specifications 66Pla and 21 Yc. Piping is welded where practicable in lieu of screwed and flanged fittings. Piping is designed for 125 lbs. working pressure.

1-7.10. Coal Storage. Provision has been made for the storage of 700 tons of coal or approximately two weeks supply at full load.

J-7.11. Coal Handling Equipment. Mechanical coal handling is provided for this plant, this system is manufactured by the Link-Blet Company. The equipment consists of an outside hopper into which coal is dumped directly from trucks, this feeds into the pit of a bucket elevator, the latter consisting of an endless belt with buckets attached and driven by an electric motor, lifts and discharges coal into storage hopper in tower, from which the fuel is conveyed as required by a Helicoid feeder to spouts to the individual stoker hoppers. The conveyor is driven by a 5 H.P., 1750 R.P.M. electric notor through a motor reducer with output speed of 83.7 R.P.M., normal operation is at 22 R.P.M. which provides a capacity of six tons of coal per hour.

J-8. Rifle Range Colored Battalion.

J-8.01. Central Heating Plant. The purpose of this plant is to supply steam for heating, hot water and process to the various buildings of this group. Located in a separate building it consists of two coal burning boilers and the necessary auxiliaries.

J-3.02. Total Connected Load. In the following tabulation the total heat requirements for each building are given in Btu per hour.

Building	Heating	Hot Water	Pr	oces	S	Totals	
oss Hall ash Rooms (6) Total	803,000 819,000 1,622,000	1,365,000 5,460,000 6,825,000		92,00 92,00		2,760,000 6,279,000 9,039,000	С
Distribu	tion System Los	SSES	120,100	Btu	per	hour.	
Total Con	nnected Load	9,	159,100	Btu	per	hour.	

J-8.03. Estimated Fuel Requirements. The annual fuel requirements have been estimated and tabulated below. The overall boiler efficiency is estimated to be 60% average with coal having a heating value of 13,500 Btu Per pound. as fired.

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Heating	1,622,000 x 24 x 2,300 60 x 13,500 x 0.6 x 2,000	-
Hot Water	6,825,000 x 6 x 365 13,500 x 0.6 x 2,000	19.: 1
Process	592,000 x 7 x 365 13,500 x 0,6 x 2,000	Ξ
Distribution Losses	120,100 x 24 x 365 13,500 x 0,6 x 2,000	=

Total Fuel Required thus 1173 tons per year.

1-3.04. Boilers. There are two identically rated boilers, No. 1 is "Bison No. 574" manufactured by Farrar & Trefts Company and No. 2 is a "Model P-89" manufactured by the Fitzgibbons Boiler Company, Both are portthe, return tubular firebox boilers equipped for coal stoker firing, each rated at 89 H.P. with a heating surface of 893 square fect and built for 125 Ibs. p.s.i. working pressure, Standard trim, including, water column, gauge class, pressure gauge, injector and blow-off connection is provided for each boiler.

J-8.05. Breechings and Chimney. The boilers are connected with chimney by a 35 x 42 inch breeching, the brick chimney is 31-0" x 31-10 3/4" inside by 70 feet high.

J-8.06. Combustion Equipment. The boilers are fired with two Iron Fireman Corporation No. 4 Coal Stokers of the worm feed type and hopper cap city of 750 pounds each. They are driven by 2 H.P. electric motors. The operation of the stokers is fully automatic, regulated by steam pressure actuated controls in conjunction with McDonnell #150 safety cutroff switches at low water level.

J-8.07. Boiler Feed Water System.

Condensate Receiver. The capacity of the receiver is 560 gallons and it is provided with two submerged steam heaters; one unit is a heater coil supplied by exhaust steam from the boiler feed water pumps; the other consists of a perforated tube element discharging high pressure drip returns into the receiver water. Low pressure condensate is returned to the receiver through the overhead system from the various buildings. Raw water makeup is automatically controlled by an electrically operated Johnson makeup valve on the receiver.

Boiler Feed Water Pumps are Worthington Pump & Machinery Corporation model VC, steam driven reciprocating pumps of 13 g.p.m. capacity each. Boiler feed water level is maintained by a Coped regulator and pump governor.

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92 tons per year.

922 tons per year.

94 tons per year.

65 tons per year.

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J-3.08. Boiler House Piping is installed in accordance with Navy exectfication G6Pla and 21 Yc.

Piping is welded wherever practicable in lieu of flanged and screwed fittings.

J-8:09: Coal Storage Yard of approximately 450 tons or two months supply at full load is provided.

1-9. Signal School Facilities.

J-9.01. Central Heating Plant, Material listed in following paragraphs represent our design choice and is not necessarily a list of equipment installed as this project has not been completed.

The purpose of this plant is to provide steam for heating, hot water and process to the various building in this area. Located in a separate boiler house it consists of two mochanically coal fired boilers, pump, condensate tank and auxiliaries.

J-9.02. Total Connected Load. In the following tabulation the total heat requirements for each building is given in B.T.U. per hour.

Building	Heating	Hot Water
Mess Hall Barracks (3) Total	803,000 4,078,080 4,831,080	1,365,000 3,423,750 4,783,750
Distributi		133,200
Total Conne	cted Load	10,395,030

J-9.03. Estimated Fuel Requirements. The annual fuel requirements have been estimated and tabulated below. The overall boiler efficiency is estimated to be 60% average with coal having a heating valve of 13,500 Btu per pound as fired.

Heating	4,881,080 x 24, x 2300 60 x 13,500 x 0.6 x 2000	=	278	tons	per	year.
Hot Water	4,788,750 x 6 x 365 13,500 x 0.6 x 2000	-	646	tons	per	year.
Process	592,000 x 7 x 365 13,500 x 0.6 x 2000	=	93	tons	per	year.
Distribution Losses	133,200 x 24 x 365 13,500 x 0.6 x 2000	*	72	tons	per	year.

Total Coal Required

Process	Total
592,000	2,760,000
	7,501,830
592,000	10,261,830

Btu per hour.

Btu per hour.

1089 tons per year.

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J-9.04. Boilers. There are two portable, return tubular, fire box boilers manufactured by Kewanee Boiler Corporation and designated as #584, they are fired by mechanical coal stokers, rated at 89 H.P. with a heating surface of 893 sq. ft. and built for 100 p.s.i. working pressure. Standard trim, including water column; gauge glass; pressure gauge, injector and blowoff connections is provided.

J-9.05. Breeching & Chimney. The boilers are connected with the induced draft fan by a 28" x 28" inch breeching controlled by a multi-blade louvre. Induced draft fan which was specified is similar and equal to Clarage fan have the following requirement, C.F.M. 1200, S.P. 1,5, RPM 600 max., B.H.P. 5.35, working temperature of 600°F. Fan bearing are water cooled. The induced draft fan is connected with chimney by a 30' x 30 inch breeching, the brick chimney is 42 x 42 inch by 50 feet high.

J-9.06. Combustion Equipment. The boilers are fired with two coal stokers of the worm feed type and hopper capacity of 1200% each. These stokers are similar and equal to Iron Fireman Corporation No. 5. They are driven by 5 H.P. electric motors. The operation of the stoker is fully automatic, regulated by steam pressure actuated controls in conjunction with a safety cut-off switches at low water level. The safety cut-off switch is similar and equal to McDonnell #150.

J-9.07. Boiler Feed Water System.

Condensate Receiver. The capacity of the receiver is 940 gallons and it is provided with one submerged steam heater consisting of a perforated tube element discharging high pressure drip return into the receiver water. Low pressure condensate is returned to the receiver through the overhead system from the various buildings. Raw water make-up is automatically controlled by a float gauge on the receiver. The float gauge is similar and equal to Fisher Governor Company, standard pressure, size 8".

J-9.08. Boiler Feed Water Pumps. There are two Garner-Denver steam driven reciprocating pumps of 16.1 G.P.M. capacity each. Boiler feed water level is maintained by a regulator & pump governor. The regulator and governor are similar and equal to Copes Type OT and Type DS respectively.

J-9.09. Boiler House Piping is installed in accordance with Navy Specification 66Pla and 21Yc. Piping is welded wherever practicable in lieu of flanged and screwed fittings.

J-9.10. Coal Storage Yard of approximately 190 tons or 2 months supply at full load is provided.

J-10. Grade and High School.

J-10.01. Heating. Heat for this building is furnished by a hot water boiler of 10,500 sq. ft. capacity, based on an installed radiator rating of 240 Btu per sq. ft. The heating system is a 2 pipe reverse return, modulated

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water temperature, forced circulation; controlled by a Barber-Coleman mutside-Inside Temperature Control. The building is divided into 3 zones, the end zone of 899,500 BTU/hr: and 823,100 BTU/hr: which have constant sirculation and the auditorium section of 352,000 BTU/hr. whose circulation is controlled by a thermostat. The boiler is fired by a No. 4 Iron Fireman stoker of the worm feed type, driven by a 2 H.P. motor with a hopper capacity of 750 lbs. Beside the modulating boiler water temperature control the stoker is entirely automatic and has hold fire and high limit controls.

J-10.02. Hot Water. Hot water is furnished by a hand fired hot water supply boiler, of 85 g.p.h thru a 100° rise capacity. As a safety precaution a shell type indirect heater is installed between the boiler and the 220 mallon storage tank. The boiler is equipped with a thermostatic damper regulation.

J-10.03. Estimated Fuel Requirements. The annual fuel consumption as estimated by the .SHV degreed day method at 75% boiler efficiency and 13500 RTTI/1b. coal is:

> F = UND U = .0441 x 12000 x 1.28 13500 N = 2074D = 2304 F = .0441 x 12000 x 1.28 x 2074 x 2304 = 121 tons 13500 2000

The estimated hot water fuel consumption is:

85 x 8.33 x 100 x 4 x 365 x .7 = 5 tons 13500 x 2000 x .55

Total estimated Fuel Consumption.

	Heating	=	121	tons
	Hot Mater	c	5	tons
. 1	Total		126	tons

J-11. Feedwater Treatment for Outlying Plants.

J-11.01. Feedwater Treatment. In the "Reports on Feedwater Treatment for the Various Heating Plants of the U.S. Marine Barracks" prepared by Sheppard T. Powell (filed in P. ... 0.) he recommended suitable treatments depending upon the design of the plant, quality of the raw water, and the Primary treatment provided.

The treatments recommended and for which plans were prepared, wre as follows:

moval Hospital. Pumping apparatus for feeding sodium sulphite and caustic

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nont Camp Nos. 1 and 2. Pumping apparatus for feeding sodium sulphite,

Barrage Balloon, Rifle Range, Bachelor Officer's Quarters. Pumping apparatus for feeding sodium sulphite, caustic soda, and phosphate into the boiler feed system.

untford Point Tent Camp, Amphibian Shops, Barrage Balloon Training School, Tider Base, Parachute Training School, Naval Hospital B.O.Q. Chemical solution pressure pots suitable for feeding phosphate compound containing tomin or other organic materials into the boiler was provided.

All of the above systems have been provided with adequate means of amtrol to the end that the amount of solution added may be accurately proportioned to the requirements of the boilers under varying load conditions. The pumps have been fully manifolded to provide for interchange of operation and all systems have been provided with pressure relief valve protection, The electric circuits to the pump motors have been equiped with mercury type low level cut out switches mounted in each pump solution tank to preclude the possibility of pump operation when a low level condition exists in the solution tank. Every effort has been made in the work of layout to provide for complete flexibility and safety.

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		CHAPTER K - PART II
		COMUNICATIONS
		TABLE OF CONTENTS
(a) A set of the se	Section	Title
	K-1 K-2 K-3 K-4 K-5 K-6 K-7 K-8 K-9 K-10	Introduction. Connecting Company and Des of Service. Toll Facilities. Development Study. General Design. Transmission and Protection Trunking. Division Training Area - (ment and Distribution. Paradise Point - C. 0. Equ Distribution. Hospital Area - C. 0. Equ
		Distribution.
	K-11	Balloon Barrage and Amphil C. O. Equipment and Dist:
	K-12	Rifle Range - C. O. Equipa Distribution.
	K-13	Main Tent Camp Area - C. .ment and Distribution.

K-14

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side plant.

(Vol. II).

K-2. Connecting Company and Facilities.

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0. Equip-Montford Point Camps - C. U. Equipment and Distribution.

Hurst Beach Area - Cable Distribution. Operating Practices and Maintenance.

K-1. Introduction. This supplementary report is for the purpose of providing additional information to the previous description of the telephone system (Vol. II) and in conjunction with the latter form a coordinated record of the essential details of the central office . equipment and out-

Since the previous report was prepared the Carolina Telephone Co. have added 100 additional local lines with the necessary associated switching equipment to the Jacksonville Exchange.

K-3. Toll Facilities. A description will be found in the former report

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meen augmented considerably due to the addition of new Areas as well as the ditional buildings being added to existing areas.

The following Areas have been added since the original study was prepared.

1- Rifle Rango-Colored Camp. 2- Montford Point Camp No. 2. 3- Montford Point Camp No. 2A. 4- Montford Point Camp No. 3.

5- Camp Knox-Rehabilitation.

6- Women's Reserve Arca.

7- Signal Battalion - Hurst Beach.

8- Industrial Area-New Buildings.

9- Industrial Area- Labor Battalion.

The revised total of stations is 2507 of which 1412 are located in the Division Training Area and 1095 in outlying areas. Revised totals for individual areas are given under their respective headings, figures are given only when revisions have been made.

On all new additions, the station requirements have been established by the Camp Communications Officer. and all design work has been based on those ostimatos.

K-5. Genoral Design.

Since the original report (Vol. II) was prepared the general design and method of handling inter-office calls has changed materially due to increased plant facilities, and the establishment of a P. B. X. office at Nontford Point.

The telephone system now consists of the following switchboard equipmont.

(1) A attended automatic exchange at Hadnot roint.

(2) A unattended automatic exchange at Faradise Point.

(3) A attended automatic exchange at Tent Camp.

(4) A manual P. B. X. switchboard scrving the Naval Hospital at Hadnot Point.

(5) A manual P. B. X. switchboard at Courthouse Bay (Balloon Barrage Aroa)

(6) A manual P. B. X. switchboard at Stone Bay (Rifle Range Area)

(7) A manual P. B. X. switchboard at Montford Point Camp.

Additional trunking facilities have been installed which provide. increased flexibility for inter-compunication between areas. These facilities are covered in Section K-7.

K-6. Transmission and Protection. The description of these items is the

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State of the state of the A state of the second se came as covered in the former report, (Vol. II). and the second second Trunking. In addition to the existing facilities described in the prerious report, non-loaded 20 Gauge submarine trunk cables have been installand the second ed, connecting the Tent Camp and Montford Point Central Office Equipment A state of a state o with the Paradise Point Exchange. These additional trunks permit intercommunication between these areas and Hadnot Point, independent of the en belander i der Stell Anders ander sichten in der eine sichten eine der einen sichten einen sichten einen sich eristing trunks connecting with the Carolina Telephone Co.'s exchange in ware all a start in the start of the second start of the second start of the start of the second start of Jacksonville. The connection between areas, previously noted. through the Jacksonwille Exchange provides alternate routing and stand-by service. The existing .104 copper open wire trunk circuits serving the Balloon Barrage and Rifle Range Areas have been replaced with a 19 Gauge B-88 loaded trunk cable from the Hadnot Point Exchange to the Balloon Barrage switchboard.

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Office of the Camp Engineer

Office of the Camp En. S. A. Munch, Supt. Flumbing and Heating Camp Lejeune, N. C.

From the end of the trunk cable at the entrance to Court House Bay .104 copper circuits are extended to the Rifle Range switchboard. The original tie circuits connecting the Balloon Barrage and Rifle Range switchboards have been converted to straight trunks by the Marine Corps increasing the present facilities to five (5).

Following is a revised tabulation of trunk cable and open wire quantities.

DECITANCE		Number of Pairs - Gauge						
EXCHANGE	7-20	16-19	26-19	51 - 19	1-19	1-22	5 Circuits	
DIVISION TRAINING MAX to Carolina Tel & Tel Co.*					27,490	43		
Paradise Point PAX					16,750	2,055		
Naval Hospital PBX	1	1		8,650			1	
Barrage Balloon PBX ** Rifle Range PBX **			27,500	1			44,000	
PARADISE POINT PAX to	49,100	950						
Montford Point PBX	24,500	T					1	
an TENT CAMP MAX to Carolina Tel & Tel Co. *			3,220					
Carolina Tel & Tel Co. *		1		5,260				
Total Trunk Line Cable	or Pole	Lino	209.518	Lince	1 Ft. c	pr 39.68	3 Miles	

* Distance given is to point of connection with existing lines of Tel. Co. ** Balloon Barrage-Rifle Range trunks carried in 76-19, B-88 loaded composite cable, 67% distribution, 33% trunk from Holcomb Boulevard to Duck Creek (see distribution table, Division Training Area) and carried in same 26-19 cable Duck Crock to Balloon Barrage Area (see above).

TABLE OF TRINK LINE OHANTTTES IN LINEAL FET OF CARLE OF DOLF LINE

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1-8 Division Training Area.

r.8.01 Central Office In addition to the area previously reported as being served from the Hadnot Point Exchange, service to the quarters being constructed for the Signal Battalion at Hurst Beach will also be handled from this office.

7-8.02. Distribution The following changes and additions to the cable feedar and distribution plant have been made!

The Industrial Area cable facilities have been reinforced to meet the increased service demands caused by the expansion in the building program. and the addition of a Labor Battalion Group.

The U. S. M. C. Women's Reserve Group has been added, for which aerial cable facilities have been provided from the central office.

K-8.03. Drawings. A revised list of drawings prepared and quantities of feeder and distribution cable follows.

DIVISION TRAINING AREA

No.					f Pair	'S -	Gauge					
M.B.	11-19	16-19	26-19	51-19	76-19	1-19	1-22	2-19	3-19	4-19	6-22	9-22
778						973		260			1628	2681
779	460		430	500		1341		2964				
780	530		320	1630		2180		1		-		
781	320		230	683		1631		2352				1
782	490		405	1493	1	2305						1
783	245		445	1589	•	3233				1350		1
784	485		90	895	1	1776		119				
785		1265	1970	2350		1370	1					Ι
799	140		1	1770	1	210	1	155	756	1024		1
3779	625		1143	1704		1065	1	1	1			1
3784		950	1	1400		3650	3000	1675		150		1
3785					1	1	1	1	2500			1
3798			660			1	1		1			1
**			10000		36000	1	1	1				1

** Distribution along Sneads Ferry Road to Duck Creek, distribution to Hurst Beach and trunks to Balloon Barrage-Rifle Range are carried by 76-19 cable (see above) from Duck Creek 26-19 cable carries distribution to Hurst Beach (see above): 26-19 cable carries trunks to Balloon Barrage (see trunk table).

(1) The set of the

K-9. Paradise Point.

1-9.01 The Central Office. Modifications of the switching equipment have been made in order to terminate the trunk cables connecting the Tent Camp and Montford Point Areas with the Paradise Point exchange.

The description of the central office will be found in the previous report.

x-9.02 Distribution. is as described in the former report (Vol. II).

K-10 Naval Hospital Area. This area was described previously (Vol.II) no changes or additions are noted.

K-11 Barrage Balloon and Amphibian Base.

E-11.01 The Central Office. The two (2) tie trunks connecting the Rifle Range and Balloon Barrage switchboards have been eliminated. Service between these areas is now handled through the Attendants Cabinet at Hadnot Point.

K-11.02 Distribution This was described in the previous report (Vol.II)

K-12 Rifle Range

K-12.01 The Central Office. The description of the central office as covered by the previous report (Vol II) remains unchanged with the exception that the tic circuits connecting the Rifle Range and Balloon Barrage switchboards have been converted into additional trunk circuits for serving the Rifle Range Area.

K-12.02 Distribution. as proviously reported (Vol.II) has been increased by the addition of an acrial focdor cable to serve the colored camp area. A revised tabulation of drawing prepared and quantities of cable plant follows.

	F DISTRIB	UTION LINE	QUANTITI	ES IN LIN	EAL FEET	OF CABLE	
Drawing No. M.B.	2 (pr)	7 (pr)	16-19	26-19	50-19	1-19	150-19
2755			2642	2205	755	390	125
2756	4460	10,806					
3762			1892				
	Total 1	<u>.</u> Distribuți		23.275 Li Stations r			Miles

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K-13. Main Tent Camp

I-13.01 The Central Office. This exchange was reported previously (Vol II) and no change. is noted with the exception of modifications in the switching equipment to permit the termination of additional trunk circuits connecting with the Paradise Point Exchange.

I-13.02 Distribution. The cable distribution system is the same as des-

x-14. Montford Point.

K-14.01 The Central Office. The switchboard and associated power equipment will be furnished and installed by the Marine Corps. The M. D. F. and cable terminations on the frame havebeen provided by the contractors.

Calls originating and terminating at Montford Point Camps 1, 2, 2A, 3 and Camp Knox are handled through this exchange which is connected by a submarine trunk cable to the Faradise Point office.

Additional trunks are also provided terminating on the Carolina Telephone Co.'s switchboard in Jacksonville.

This area was originally served by direct lines from the Jacksonville Exchange. Due to the increase in training and housing facilities it was necessary that a separate government owned communication system be installed.

K-14.02 Distribution. The distribution plant consists of buried and aerial cable construction serving the respective areas.

K-14.03 Drawings. A revised list of drawings prepared and cable distribution quantities follows.

rawing	Numb	er of Pai:	rs — Ga	uge			
10. M.B.	11-19	16-19 1	26-19	50-19	1-19	150-19	3-19
1758				340			<u></u>
1759		974	995	1200			
78							
174	200	550	5500	200			996-en gandeine al nords biskondjirke
175	300	600	1350	2100	1500	900	175
<u>CCC-17</u>			3250			1	
CCC-18		1800	900				

1-15. Hurst Beach and Sneads Ferry Road.

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r-15.01. The Central Office. The area which comprises the Signal Battalion at Hurst Beach and outlying stations along the Sneads Ferry Road will be served direct from the Hadnot Point Exchange.

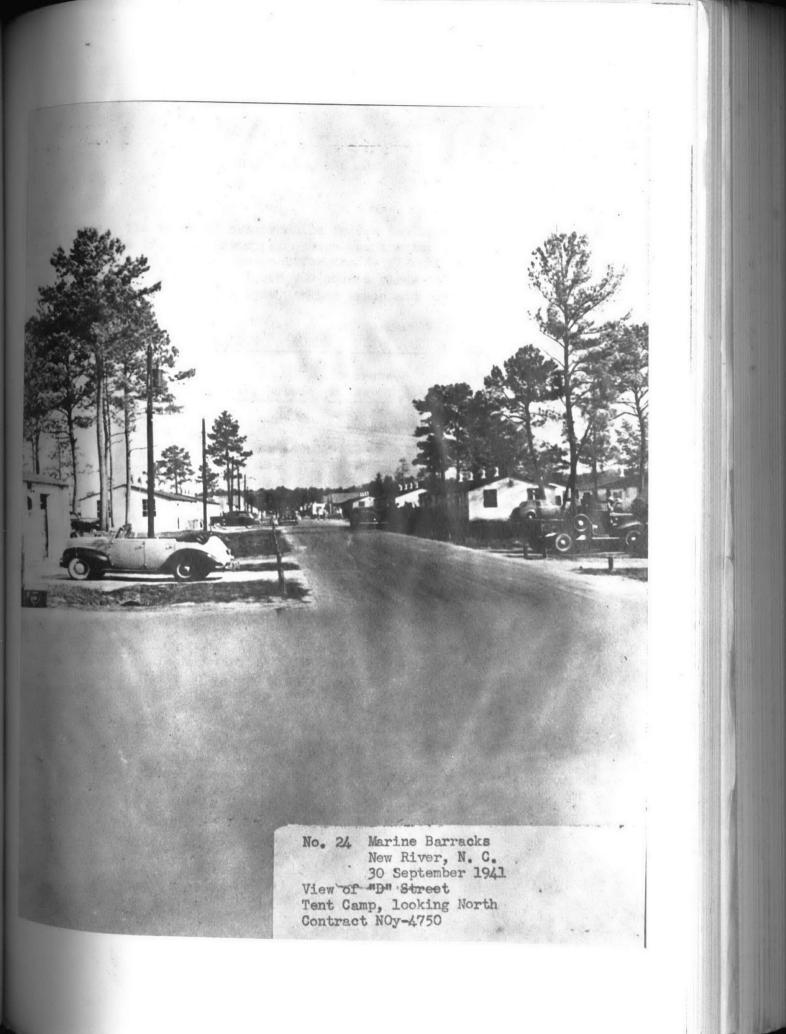
v_15.02. Distribution. A 76 pair aerial feeder cable has been placed on the existing pole route along Sneads Ferry Road extending from the intersection of Holcomb Boulevard and Sneads Ferry Road to Duck Creek. B-88 loading is provided only on 50 pairs with the remaining 26 non-loaded pairs used to serve outlying areas along the route.

From Duck Creek a 26 pair loaded aerial cable is extended to the courthouse Bay Area to provide additional trunking facilities to both the Balloon Barrage and Rifle Range switchboards.

A 26 pair loaded aerial cable is also extended from Duck Creek to Hurst Beach to provide cable facilities to meet the service demands of the Signal Battalion located there.

See Section K-8.03 for tabulation of cable distribution.

K-16. Operating Practices and Maintenance recommendations were outlined in the former report (Vol. II).



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CHAPTER L - PART II

ROADS, RAILROADS, AND AIRPORTS

I-1. Roads. The types of construction follow the same principles as outlined in Volume II. The principal change was the substitution of a single course 2-inch sand asphalt pavement for the 2-1/2-inch, two-course pavement previously used. A total of 1,658,000 square yards of roadway paying was installed. This does not include parking areas and miscellaneous turnouts.

TABULATION OF ROADS CONSTRUCTED

Sand As Width	phalt Miles	Traffic Bound Macadam, Miles	Concret Miles
mataon		madadam, MILLES	MITES
9	5.22		0.98
10	0.70	0.90	0.17
12	0.42	0.15	
16	0.22	1.74	
18	16.24	2.69	
20	6.37	0.32	
22	79.49	3.60	
Variable	1.62		
Dual 22'	5.63	-	,
Total	115.91	9.40	1.1.5

* Error in Volume II.

1-2. Railroads. Approximately two miles of trackage were added to the original system. The majority of this trackage is located in the Industrial Area and consists of side and passing track. One track was built to the center of the loading ramp to provide end loading facilities.

15.63 miles of railroad track were provided for the entire project including 890 lineal ft. of trestle and 2,072 lineal ft. of pipe culverts.

1-3. Airports. Miscellaneous glider and seaplane facilities were provided. New River was swept for obstructions and dredged between Hadnot Point and Huntford Point to provide a safe landing place for seaplanes.

e

1	Graded	Total
•	Miles	lfiles
		6.20
		1.77
		0.57
		1.96
		18.93
		6.69
	0.62	83.71 *
		1.62
	Carlon Section Section Section 2	5.63
	0	
	0.62	127.08



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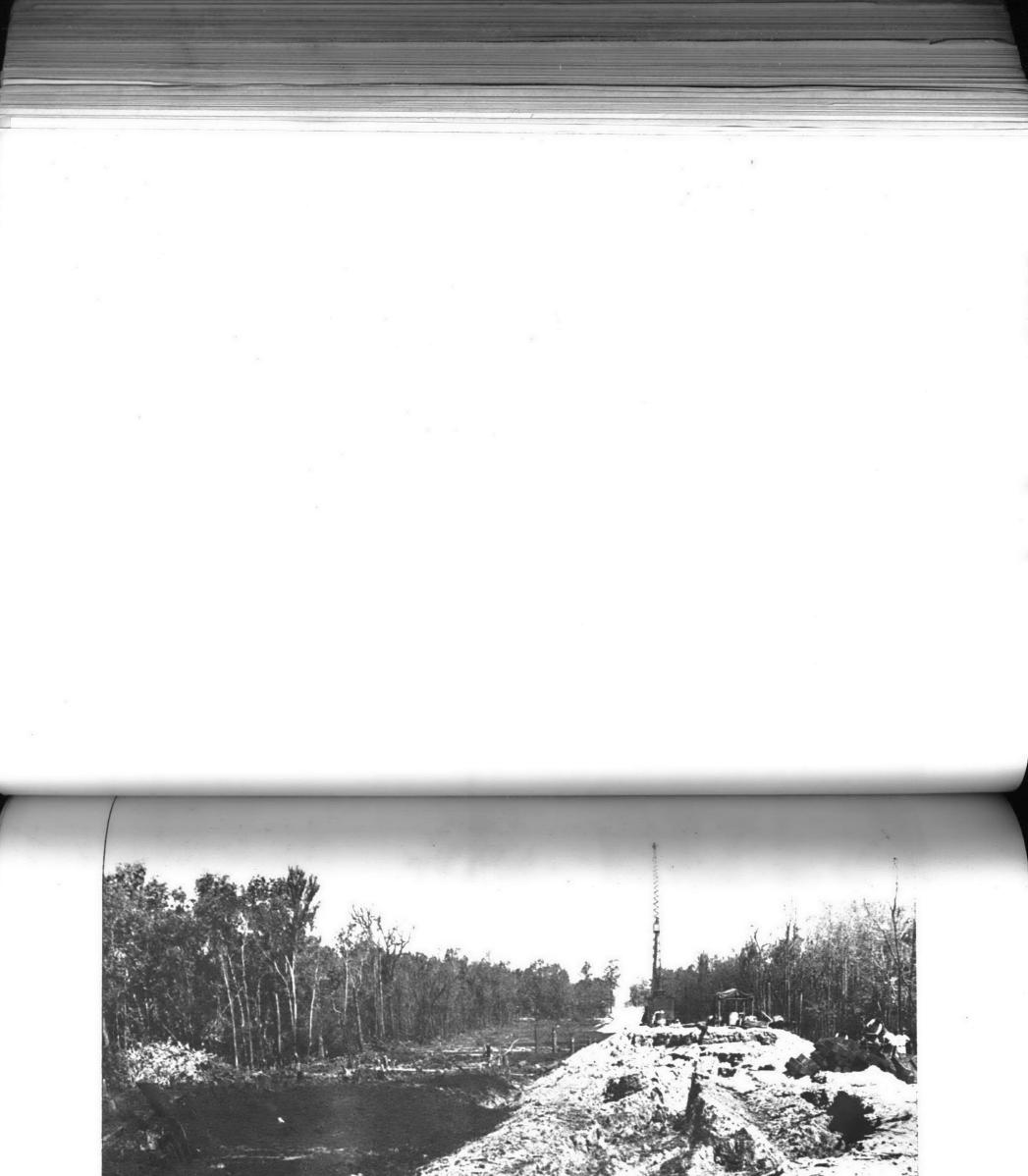
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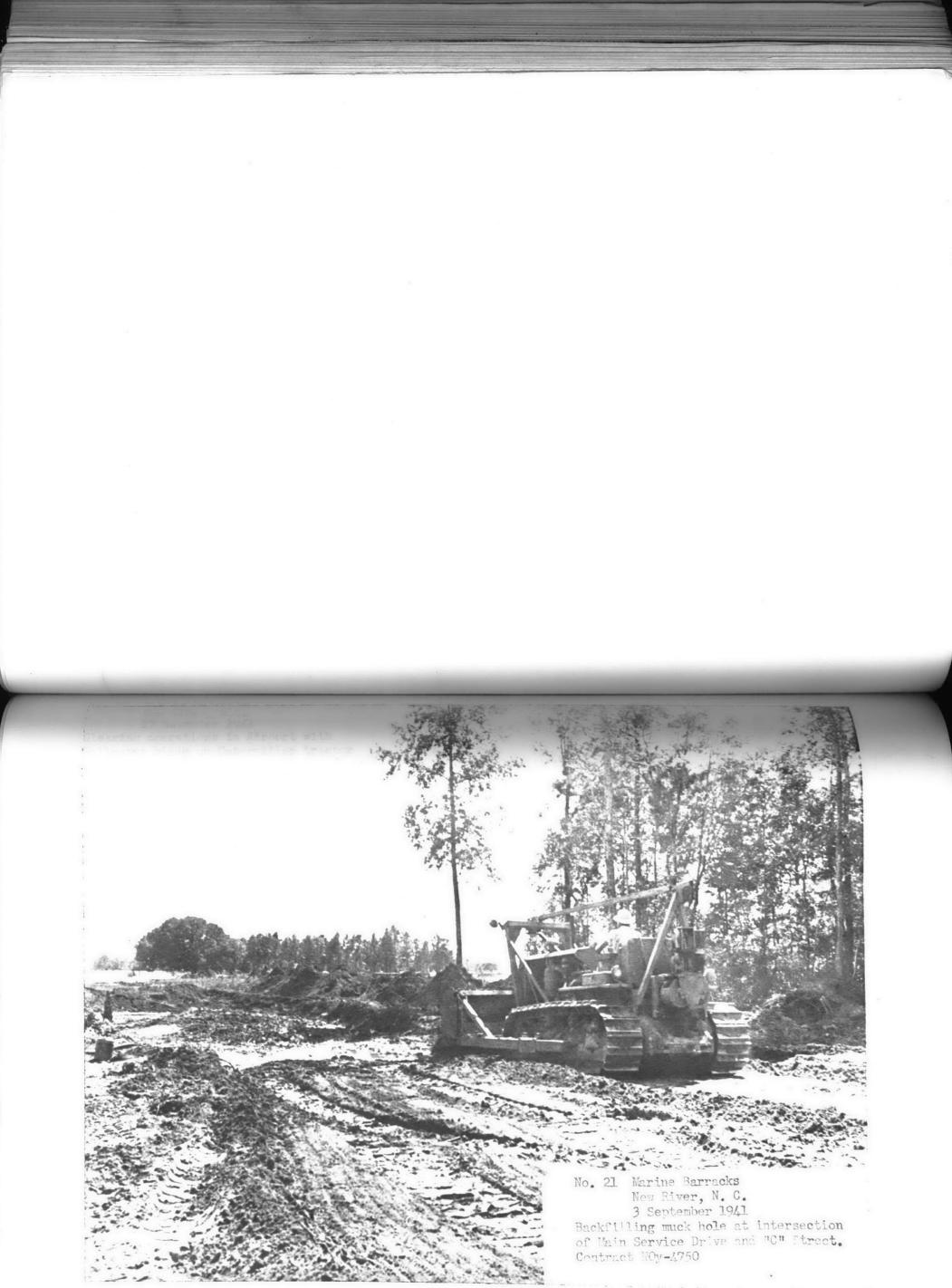




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No. 16 Marine Barnacks New River, N. C. 16 August 1941 View of slide in filled Highway approach to Wellace Creek. Looking North West toward Wellace Creek. Contract NOy-4750



No. 91 Marine Barracks New River, N.C. 17 November 1941 Clearing operations in Airport with Bulldozer blade on Caterpillar tractor Regimental Area Contract NOy-4750



CHAPTER M - PART II

WATER SUPPLY AND DISTRIBUTION

CONTENTS

T
Introduction
Tent Camps Nos. 1 an
Division Training Ar
Midway Park Resident
Montford Point Area
Barrage Balloon Batt
Amphibian Base
Rifle Range Area
Glider Training Base
Peterfield Point Ten
Tank Battalion Tent
Camp Knox
White Cemetery
Beach Area
Swimming Pools
Su mmary

N-1. Introduction. During the period October 1, 1942 - December 18, 1943 water supply and distribution facilities were designed for several new areas and additional facilities were added to areas reported previously in Volume II. Design methods were similar to those used previously. The facilities provided are described more fully in the following sections of this chapter.

M-2. Tent Camps Nos. 1 and 2. Volume II appears to cover all work performed.

M-3. Division Training Area.

M-3.01. Regimental Areas 1, 2, 3, 4, and 5. No additions have been made to the distribution systems within these areas except to extend 6-inch services to the additional new buildings built in these areas ..

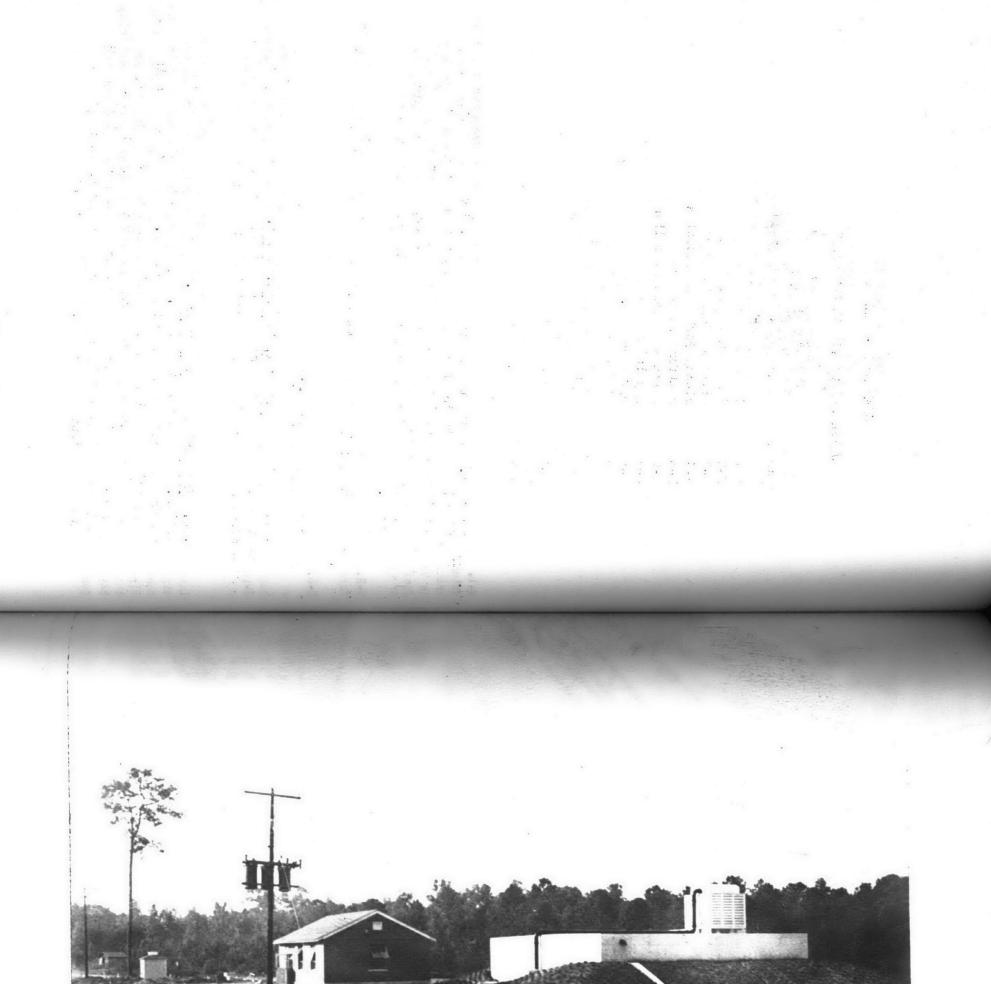
M-3.02. Industrial and Supply Area. In order to serve the Colored Labor Battalion, with a population of 1,000, a complete loop of six and eight inch main was constructed around this unit. The new 6-inch main connects with the existing 8-inch in Michael Road and runs southeasterly along Birch Street and southwesterly along Lewis Street to Cedar Street. From this point an 8-inch main follows Cedar Street to connect with the existing 8-inch main in Michael Road. The new mains are sized to carry out the general plan of distribution previously adopted for this area.

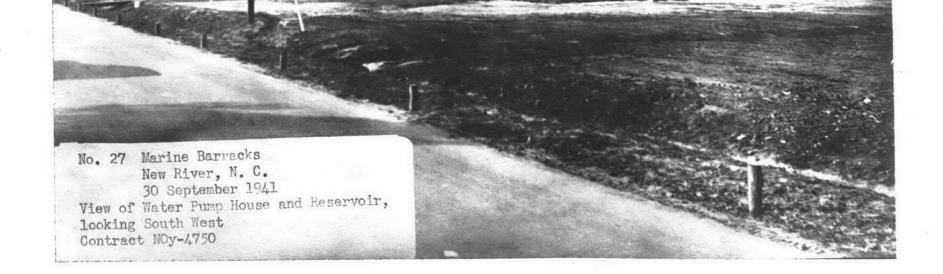
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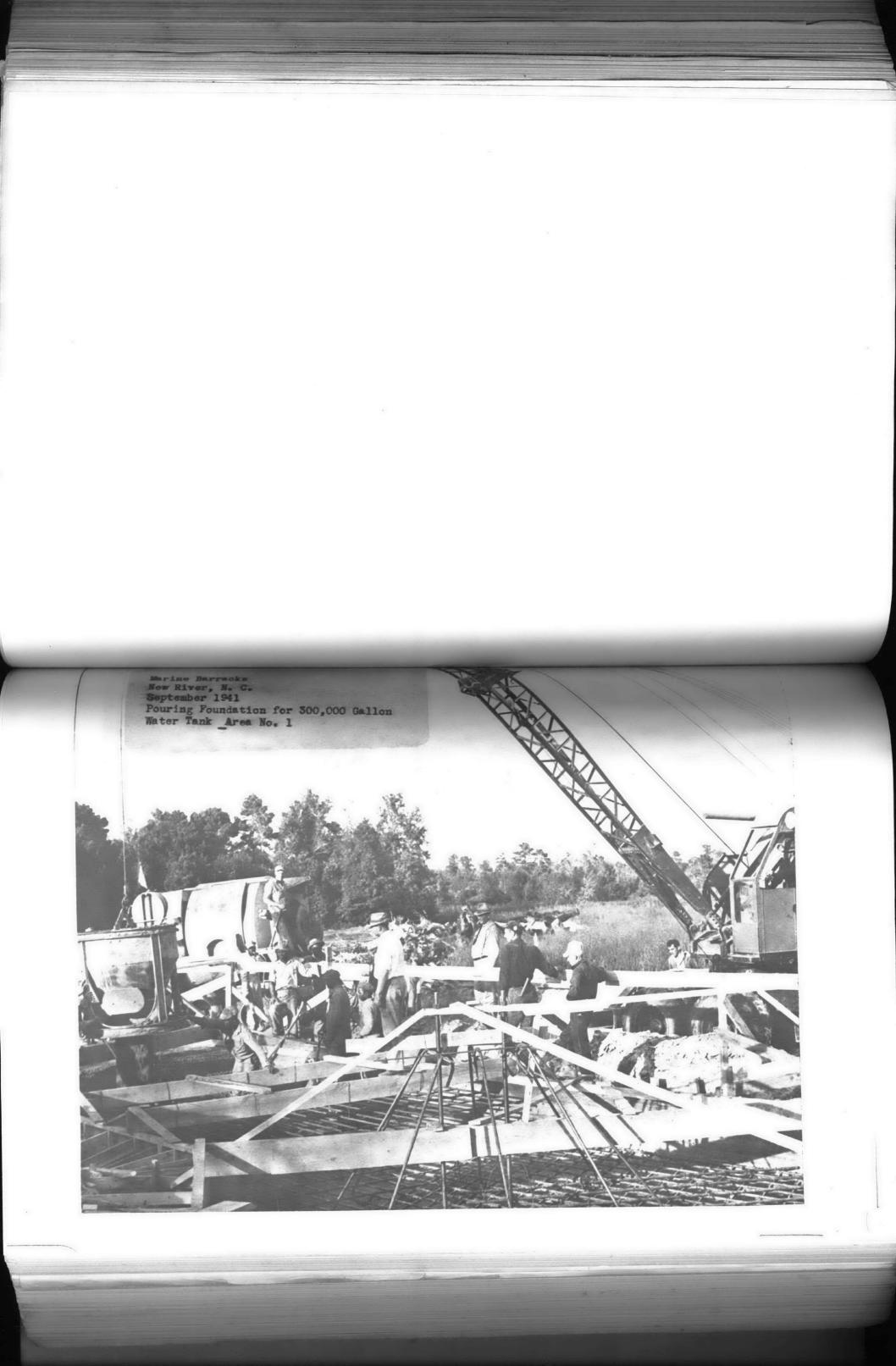
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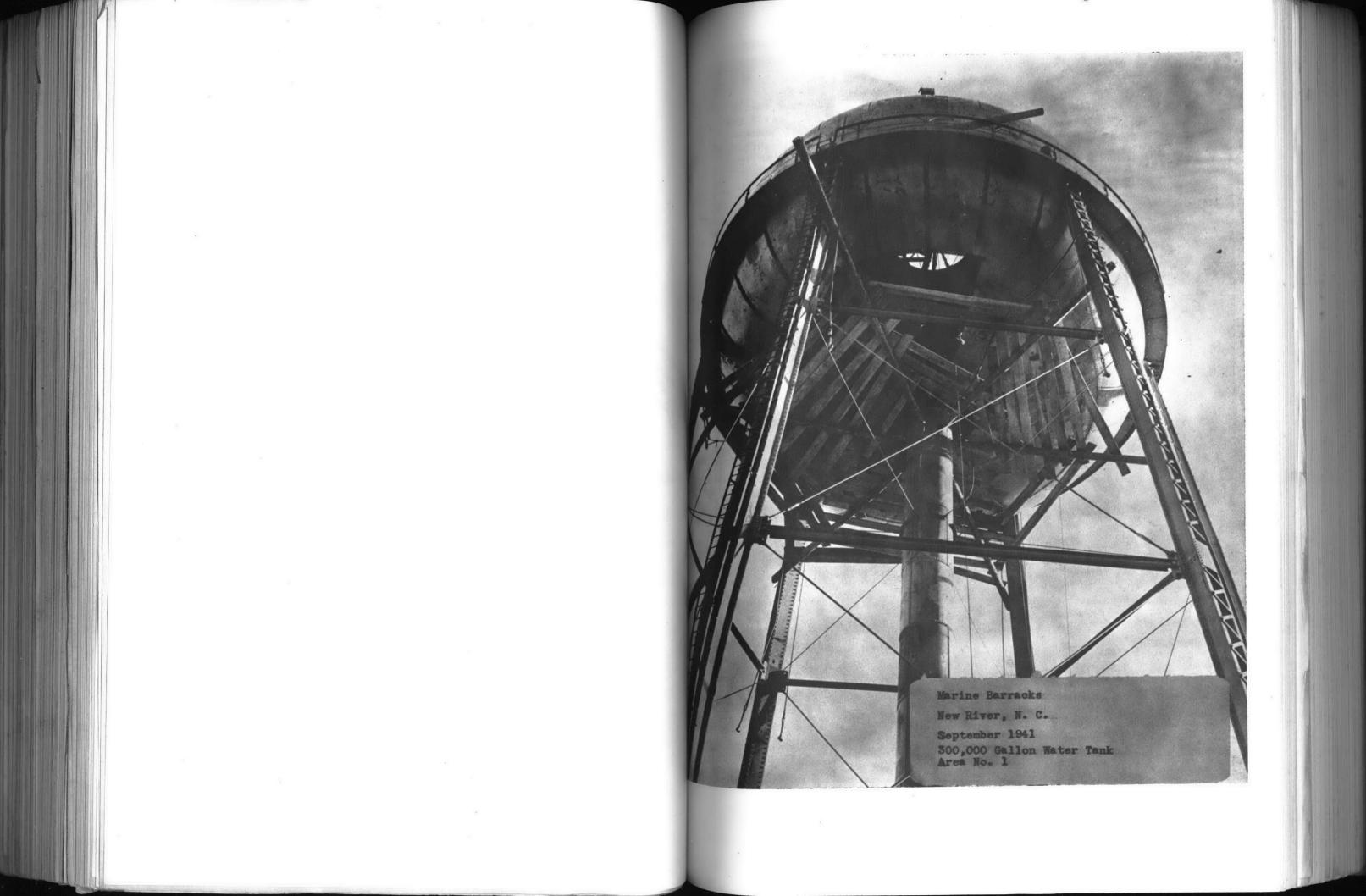
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Marine Barracks New River , N. C. November 1941 Driving FoundationPilesfor 300,000 Gallon Elevated Water Tank Industrial Area

Nº27



An 8-inch extension has been provided in Michael Road past Building 1005.

An 8-inch main has been installed along Fir Street to tie in with existing stubs in Fir Street, completing the circuit between Center and Rast Roads. This line also serves Building 1606.

A short extension of 8-inch pipe was made across Gum Street in line with East Road to serve Building 1707.

M-3.03. Paradise Point Road School. A lo-inch main has been extended from the existing 6-inch main directly in the rear of the Gate House to Holcomb Boulevard , thence south along the center strip of Holcomb Blvd to Paradise Point Road and along the south side of same to a point past the west end of the school building and directly opposite sewage pumping station No. 13. Four-inch services supply the school and pumping station.

The 10-inch line was selected as the proper size for future extension either for ultimate service from the Division Training Area or in the event that the supply continues to be derived from Midway Park and new activities are served along the Holcomb Boulevardor Paradise Foint Road.

With this in mind, values and fittings have been provided for a future feeder line to reinforce the existing 6-inch main from the Midway Park system and the point of connection just back of the Gate House.

M-3.04. Hospital Area. In order to insure the Hospital Area against interruption in water service and to augment the flow for fire fighting, a second 12-inch feeder main was installed to connect with the existing 12inch main in River Road at a point near "A" Street and to extend along the southwest side of River Road to the existing 12-inch section of the Hospital Area loop. Valves and fittings have been installed at this point to permit connection with an elevated storage tank should one be required in the future.

M-3.05. Women's Reserve Area. The distribution system designed to serve this area was based upon a population of approximately 2,000. A new 8-inch main was constructed along the road bounding this unit on the north and east, connecting at the south end with the existing 12-inch main in Holcomb Boulevard and at the west end, with the existing 16-inch feeder to the elevated water storage tank. An 8-inch cross-over was installed from the above main to the existing 8-inch in Post Lane. The system is completely looped and is adequate for maximum fire service requirements.

M-3.06. Water Storage, Treatment and Pumping Plant. There have been minor changes and additions made to this plant as follows: A rotary surface washer was installed for trial purposes in filter no. 1 by agreement with the Permutit Company wherein its purchase is optional with the Navy Department depending upon the results obtained.

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After being in operation for four months, the washer has thoroughly cleaned the sand which was originally in extremely bad condition and has maintained a satisfactory condition without resort to hand cleaning.

The two filters not so equipped require frequent hand cleaning in order to rid the sand of certain impurities carried over from the softening process. These impurities, consisting mainly of iron and lime, form mud balls and dead spots in the sand beds which cannot be removed by ordinary back-washing. It has been recommended that rotary surface washers be purchased and installed in all three filters in order to secure better and more economical plant operation.

An additional 4-inch service line has been installed to augment the original 4-inch service which was connected with the 12-inch emergency wash water line. The new service connects with the 12-inch line in the Main Service Road and loops into the existing service with check valve arrangement whereby pressure will be retained for operating hydraulic valves, chlorinators and other equipment in the event that the 12-inch main inside the building is put into use for the emergency washing of filters. The pressure loss on this main and the service therefrom while washing filters would seriously interfere with other normal operations as above stated.

Recommendations were made to the Officer in Charge under date of July 29, 1943, for the enlargement of this plant to serve the population in excoss of that for which is was dosigned. At this time it appears that the population for which the plant was designed will be almost doubled and that the plant capacity may be exceeded during peak demands.

M-4. Midway Park Residential Area. Additions have been made to this area in accordance with plans and specifications prepared by others. We are advised that the additions consist of 264 housing units which will add approximately 1000 to the population now occupying the existing 700 units, making a total population of 3800.

The average demand is figured at 60 gallons per capita per day or 228,000 gallons and the maximum at 100 gallons per capita per day or 380.000 gallons.

Each of the two wells supplying this area will produce 300 g.p.m. or 432,000 gallons por day which is ample for present requirements. There have been no changes made in the plant or the original distribution system.

Details covering the extension of water facilities to serve the new housing units are the responsibility of others and are therefore not included in this report.

M-5. Montford Point Camps 1, 2, 2A, 3 and Camp Knox.

M-5.01. Design. The original design of water utilities for this area as described in Volume II was based upon a population of 1500 with the understanding that the camp was to be of temporary nature.

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since that time, this area has been greatly enlarged and all of the mits known as Camps 1, 2, 2A and 3 together with Camp Knox. have been mysically connected by feeder mains to produce one complete water system. was not originally contemplated but was later authorized after the extent and importance of the development justified the consolidation of the water systems as being more economical and decidedly more efficient than to operate them as detached units.

The order in which the work was planned and executed is as follows:

plans for a water distribution system. one well and one small eleveted tank for the original C.C.C. Camp were approved October 14. 1941. This system was constructed as an independent unit by C.C.C. authorities.

Plans for the first Montford Point Tent Camp water distribution system, designed for 1500 men, were approved April 30, 1942, including two wolls, Z and Z-1, with one 40,000 gallon elevated storage tank. This system was constructed as a separate unit and is fully described in Volume II. Section M-5, of the completion report.

The original C.C.C. Camp, now known as Camp Knox, was enlarged for a population of 1,000 men and plans for augmenting the original distribution system with larger pipe lines, installing fire hydrants and extending mains to serve new buildings, were approved February and April, 1943. One additional well known as C.C.C. No. 2 was approved December 26, 1942. On June 7, 1943, plans were approved for an 8-inch feeder main to connect with Area 3.

Plans for an 8-inch feeder main to tie in the Camp Knox system to Area No. 3 were approved June 4, 1943. Plans for Area No. 3 distribution system and feeder mains to connect with other areas, also for elevated storage and additional wells, were approved April 16th and May 25th. 1943.

After consolidation of the various units as above described, the water supply and feeder mains are sufficient to serve a population of 11,000 to 12,000. The present population in these areas is 8100.

Fire flow will vary considerably at different locations because of the arrangement of the system, which spreads over a large area and requires long lines of feeder main between elevated storage tanks. Also the normal working pressure is not more than 38 pounds. Pipe sizes have been kept to a minimum consistent with the service to be rondered. Fire flows will range from 500 g.p.m. in Camp Knox to 1000 g.p.m. in Camp No. 3.

M-5.02. Supply. The supply for the system as now consolidated is derived from wells located and equipped as follows;

Two wells, Nos. CCC No. 1 and No. 2, are located within Camp Knox (or-Iginally C.C.C. Camp)

Well C.C.C. No. 1, as described in Vol. II, Sec. M-12.02, was originally equipped with 50 g.p.m. pump. Since that time it has been equipped

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with a Layne-Bowler deep well turbine type pump, electrically driven, rated 150 g.p.m. against 176 feet total discharge head. This change was made in order to take advantage of the full capacity of the well.

Well C.C.C. No. 2 discharges about 150 g.p.m., and is as described in Malume II, Section M-12.02.

Six wells have been drilled in addition to the above. The location and vield is as follows:

Well No.	Location	Yield
Z	Montford Landing Road north of Area 1.	150 g.p.m.
Z-1	On Montford Landing Rd., Area No. 1	100 g.p.m.
Z-2	North of Area 2, on 6-inch service main	150 g.p.m.
Z- 3	On separate 6" transmission main north of Area 2	300 g.p.m.
Z-4	On separate 8" transmission main north of Area 3	150 g.p.m.
Z-5	At end of 6" service main, "C" Street, Area 3	130 g.p.m.
	Total from new wells From wells CCC 1 & 2	980 g•p•m• 300 "

Total available supply

The 1280 g.p.m. discharge rate is equivalent to 1.84 million gallons per day, which should, with 50% of the total capacity held in reserve for peak loads and standby, be sufficient for a population of 11,000 to 12,000 based upon a daily consumption of 100 gallons per capita.

Pumping equipment for Well Z-3 was ordered prior to drilling and testing in order to have the supply available for immediate use. The pump was specified to deliver 100 g.p.m. against 160 ft. maximum discharge head, which was in line with results from other wells previously drilled in this area. After it was found that Well Z-3 would safely produce 300 g.p.m., reserve pump previously purchased for Midway Park Residential Area was found suitable and was installed in lieu of the 100 g.p.m. unit. This unit is a Layne-Bowler deep well turbine type pump, electrically driven and rated at 300 g.p.m. against 170 ft. total discharge head. The only change made in this equipment was to lengthen the shaft and column so that the pump bowls could be set 50 feet instead of 40 ft. below the foundation.

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1280 g.p.m.

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The 100 g.p.m. pump ordered for this well was subsequently used in well Z-5 and actually produces about 130 g.p.m. The quality of the water obtained from different wells varies in hardness from 138 to 260 p.p.m. and in Iron content from 0.2 to 2:00 p.p.m.

Logs of the wells within this area, together with technical data overing hydraulics and construction details and mechanical equipment, are shown on drawings filed in the Public Works Office.

M-5.03. Treatment. No treatment has been authorized or provided except sterilization by means of hypochlorinators. Wells Z, Z-1 and Z-2 are equipped with Wallace and Tiernan hypochlorinators. Wells Z-3, Z-4 and C.C.C. Wells Nos. 1 and 2, Proportioneers' Inc. hypochlorinators.

It has been previously recommended to the Officer in Charge that altitude valves be installed. one on each of the two 40,000 gallon elevated storage tanks serving this area in conjunction with 150,000 gallon steel tank. This appears to be the proper means for maintaining balance in static water level and to prevent overflowing under widely variable pumpage from different well combinations scattered throughout the various areas.

M-5.04. Well Transmission Mains and Distribution System. As a result of the original intent to provide separate water systems for the units in this Area, as discussed under Section M-5.01. Design, it was necessary in some instances to parallel existing small mains with larger ones. In general, the system consists of a 10-inch feeder main extending from a point just north of .Camp 2, through Camps 1 and 3. The 10-inch line terminates north of Camp 3 in order to provide service to an additional area which was under contemplation at that time.

The 10-inch feedor is tied in to the grid systems of 6 and 8 inch pipe serving the respective areas and also connects with the 150,000 gallon elevated storage tank.

Well Z-3 is on a separate 6-inch transmission main. Well Z-4 is on a separate 8-inch main. This main has sufficient capacity for extension to a future well if one is required to further augment the supply.

Well C.C.C. No. 1 is on a separate 4-inch main.

The entire distribution system and the well transmission mains are of Class 150 cast iron pipe with A.W.W.A. specification gate valves and fittings except the original installation for the C.C.C. Camp (now Camp Knox) where threaded steel pipe was used in sizes smaller than 4-inch.

M-5.05. Elevated Storage. Three elevated tanks, as follows, provide storage and maintain a working pressure of about 38 pounds.

One 40,000 gallon wood tank on a steel tower in Camp No. 2. One 40,000 gallon wood tank on a stoel tower near the southmost corner of Camp No. 1.

One 150,000 gallon steel tank and tower near the northmost end of Camp 3.

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The capacity lines of these three tanks was specified to be at elevation 108.7.

M-5.06. Future Water Treatment. No treatment is contemplated except for swimming pools or other special uses. In such cases, individual plants will be provided.

1-6. Barrage Balloon Area. There have been no changes in the water system serving this area, except for service to Bachelor Officers Quarters.

v.7. Amphibian Base. There have been no changes in the water system serving this area.

11-8. Rifle Range Area. An additional 8-inch feeder main has been constructed from the existing 8 inch main in Range Road to extend southerly along Booker T. Washington Boulevard to the Colored Troops Area. A complete loop of 6-inch pipe is provided to serve all of the buildings except the post exchange building which is detached.

The design of this addition was based upon a population of 1.000.

Fire flow of about 750 g.p.m. will be available.

8.01. Supply. Two additional wells have been drilled in order to supply the added population and to provide standby service.

Well S-1 is located near Range Road just east of the elevated storage tank. The total depth is 80 feet, ground level is at elevation 51.0. static water level. elevation = 5.30. At 250 g.p.m. discharge the drawdown level is elevation -. 5.9. Equipment consists of a Layne-Bowler deep well electrically driven centrifugal type pump rated 250 g.p.m. against 190 ft. maximum discharge head.

Well T-1 is located just west of the Colored Troops Camp and is connected with the 8-inch supply main by a short line of 8-inch transmission pipe. The total depth is 77 feet, ground level is at elevation 32.0. static water level at elevation 8.75. At 150 g.p.m. discharge; the drawdown level is elevation - 4.84. Equipment consists of a dual electric and gasoline engine driven deep well centrifugal type pump manufactured by Layne-Bowler Co.

The total available supply from all wells now drilled is 750 g.p.m. or 1.08 m.g.d. This flow should be sufficient for a population of 5,000 at an average consumption of 100 gallons per capita per day with 50% of the well capacity held in reserve for peak demands and standby service.

8-02. Treatment. No treatment is provided except sterilization by means of a hypochlorinator installed at each well. This equipment was Turnished by Proportioneers, Inc. and is electrically driven, arranged to start and stop with the pump. Future treatment of this supply is discussed in Volume II. Section M-8.08.

1-9. Glider Base. No changes have been made in the water system serving this activity.

complete plans have been prepared to serve a Lighter-than-Air Base situated adjacent to the Glider Base. These plans contemplate extending the existing 6-inch main from the Glider Base for a distance of 800 feet to a point from which 3-inch services supply each of the two mooring facilities and the main building used for living quarters and storage. action on this project has been deferred.

1-10. Peterfield Point Camp. There have been no changes in the water system serving this Area.

1-11. Tank Battalion Tent Camp. There have been no changes in the water system serving this area.

11-12. Camp Knox. The water system for this area was combined with that of Montford Point. See Section M-5.

1-13. White Cemetery. There have been no changes in the water system for this area.

M-14. Beach Area.

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M-14.01. Mock-up. There have been no change in the water system serving this activity. Attention is called to the fact that the new water system as planned for the Signal School Facilities can be used for the installation of fire hydrants or sprinkler system for the protection of the Mock-up structure. Before adequate flow can be secured on the well transmission main to the northwest of the elevated tank it will be necessary to abandon the check valve which is specified for installation at the tank. Also, it is possible to extend the water main from Well No. 23 along the Mock-up Road to connect to Well No. "X" at the Sneads Ferry Road.

M-14.02. Signal School Facilities.

(a) Design. The design of water utilities for this Area Was based upon an ultimate population of 1800 troops, including future expansion along the beach with normal consumption 100 gallons per capita per day. Fire flow of 800 gallons per minute will be available. The total average daily demand will be 18,000 gallons per day as against a total specified supply of 430.000 g.p.d.

(b) Development of Supply. An attempt was made to obtain an adequate supply of water on the site of this activity and two test wells Were drilled, one at the northeast end and the other at the southwest end of the Area. Test wells were drilled to a depth of 51 and 80 feet, res-Pectively, and were cased with 4-inch pipe. The yield on pumping was good but analyses showed a chloride content of 1650 p.p.m. in the southwesternmost well. This condition can readily be expected at any location which lies between the Ocean and the Inland Waterway where the natural strata

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have been cut by dredging or where permeable material permits the salt water to penetrate into the fresh water horizon. This site was abandoned and new test wells were drilled on the mainland. The first well was located on the Beach Road, 2300 feet north of the Inland Waterway and the second tost well on the Mock-up Road, 2300 feet northerly from the Waterway, the last location being the site selected for permenent well, No. 22.

Analyses of samples from these wells are very similar, the total alkalinity being 150 to 160 p.p.m., chlorides 16 p.p.m. and soap hardness about 160 p.p.m.

The water being of satisfactory quality, it was decided to confine future drilling to the mainland. A contract has been awarded to the Layne-Atlantic Company under Specification No. 12190 to furnish water at the rate of 300 g.p.m. from not less than two wells both to be located on the Access Road to the Mock-up, Well No. 22 to be 2300 feet northerly from the Inland Water way and Well No. 23 to be 2500 feet northerly from Well No. 22. It is expected that the stated requirement of 300 g.p.m. can be derived without difficulty from not more than two wells and accordingly, the specification designates that auxiliary gasoline engine drive shall be provided to pump 150 g.p.m., meaning that one well pump shall be electrically driven only and the other shall have dual electric and gasoline engine drive. Pumps are to be deep well turbine type sufficiently powered to deliver their respective capacities into the elevated tank with overflow at elevation 132.0.

(c) Treatment. No treatment has been specified except starilization by means of one hypochlorinator for each well pump as covered by Specification No. 12098, Para. 11-05. This equipment will be electrically driven and manually regulated.

(d) <u>Automatic Controls</u>. No automatic controls have been specified, it being the intent to provide this equipment after the permanent wells are drilled and definite operating conditions are known.

(e) Well Transmission and Distribution System. The wells will discharge into a 10-inch transmission main located along the east side of the Mock-up Road to a point near the Inland Waterway where the main leaves the road and crosses the waterway by submerged pipe line, thence to the elevated tank and distribution system within the Signal School.

The distribution system consists of a 10-inch feeder main extending the full length of the Area. The system is specified to be of Class 150 cast iron pipe except that part which is submerged under the Inland Waterway and the apparatus thereto which are supported by piles. The submerged line will be Class D, with ball type joints and the approaches Class 150 with mechanical type joints, all as covered by Specification No. 12098.

Fire hydrants are to be of the compression type to conform with A.W.W.A. and Fire Underwriters requirements. Gate valves and fittings are to be A.W.W.A. standards.

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(f) Elevated Storage. A steel storage tank of 100,000 allons capacity with high water level at elevation 132 will maintain about 50 pounds working pressure. This tank is of special design and will be furnished and erected by Chicago Bridge and Iron Company.

(g) Future Water Treatment. No provision is being made at this time to treat the supply for the romoval of iron and hardness. The layout is such that a future plant can be interposed between the wells and the elevated tank without altering the system as planned.

M-15. Swimming Pools.

M-15.01. Three identical size pools were provided for training purposes and one smaller outdoor pool for recreational purposes in the Officers Aroa, near Paradise Point.

M-15.02. Training Pools. All three pools use the same methods of treatment when the pool water is being recirculated, the major difference between the Division Training Area pools (Regimental Areas No. 2 and No. 5) and the Montford Point Area pool being in the methods of treatment when filling. A general description of the treatment processes follows.

(a) Design. The basic design of the pools was prepared in accordance with directives from the Officer in Charge. The water capacity of each pool is 434,000 gallons.

Recirculation will be at the rate of 1200 gallons per minute equivalent to four turnovers per 24 hours, in accordance with the latest trends in design and to provide for the heavy loads that may result from combat training activities. Station water, as it comes from the mains, will be used for filling the pools and for make-up water during normal operation. The special treatment of this supply together with the normal cycle operation is set forth in detail below.

(b) Filters. The mechanical equipment consists of three pressure filter units each enclosed in a horizontal steel tank 8 ft. diameter by 18 ft. long giving 133 sq. ft. of effective sand area. At 3 gallons per square foot per minute each, the combined filtering capacity will be 1200 g.p.m. Each unit is to be equipped with air relief valves, pressure gauges and rate of flow indicators.

(c) Circulating and Wash Water Pump. For passing the water from the pool through the filters and also for backwashing the filter units, a single pump has been provided with characteristics whereby normal recirculation will be accomplished at 1200 g.p.m. against a 50 ft. head and backwashing at 1600 g.p.m. against a head of about 30 ft. This unit will be electric driven at 1750 r.p.m. by 25 H.P. motor, with push-button controls.

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(d) Chemical Feed Equipment. Proper conditioning of the recirculated water is accomplished by coagulation with alum, filtration and the introduction of soda ash for pH adjustment after filtering. Soda ash will be fed in solution from a steel tank 3'-6" diameter by 3'-6" high holding 250 gallons. The alum tank will be of wood 4'-6" diameter by 3'-6" high holding 400 gallons. Both tanks will be equipped with dissolving baskets and metered fresh water supply for preparing solution of predetermined strengths.

Chemical feeders consist of three positive displacement pumps capchle of adjustment from 0 to maximum capacities, each driven by 1/6 H.P. electric motor.

Normally one pump will feed soda ash, the second alum, and the third nump. capable of pumping either solution will be held for standby service.

Suction and discharge piping is arranged so that the standby unit can be put into service by the operation of valves to replace either the alum or the soda ash pump. Introduction of chemicals into the recirculation line has been made at points which will insure the best possible mixing and reaction without adding additional equipment.

Sterilization is effected by means of a manually controlled solution feed chlorinator with a capacity of delivering 5 to 40 pounds per 24 hours. This unit is fully equipped and of the conventional type.

Ammonia will be injected as an adjunct to chlorination in order to effect more thorough sterilization by reason of its properties as a chlorine carrying agent and also because of its effect in stabilizing and neutralizing taste and odor.

The ammoniator is of the manual control direct feed type with maximum capacity of 10 lbs. per 24 hours.

Both the chlorinator and ammoniator are completely equipped with gauges, connectors, and platform scales for weighing gas containers. together with other required accessories and spare parts.

(e) Venturi Meter. For the purpose of maintaining proper flow when recirculating or washing filters a venturi meter is installed at each pool to indicate the rate of flow continuously for recirculation and also for filter washing. The meter tube is installed in the main pipe line between the recirculating pump and the filters.

(f) Wash Water and Waste Line. Filter washing will be at the rate of approximately 1600 gallons per minute. The rate of wash water through a given filter will be controlled by means of a common well with weir and ball float butterfly valve regulated and set to discharge at a predetermined rate. This control should be set by trial to discharge a minimum of water consistent with the thorough washing of filter units.

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A separate butterfly valve regulated by the same weir as used for backwashing is provided to regulate the rewash or rinsing of the filters. This valve should be set for the normal filtration capacity of one filter or 400 gallons per minute. Each filter should be rewashed to the wash water tank after each backwashing to settle the filter media and to prepare it for return to normal filtration.

Adequate waste lines are provided for conveying wash water and for draining the pool to the wash water tank. This tank is drained to a nearby ditch as directed.

(g) Chemical Storage. Floor space left next to the chemical feed machines will provide storage of approximately nine tons of alum and five tons of soda ash. Under normal operation this supply should be sufficient for 60 days continual run.

(h) Water Heater. A 24000 gallon per hour water heater capable of raising the water temperature from 50 degrees F. to 75 degrees F. was provided after the filter nest. Piping and valves were arranged so that the heater can be by-passed. The heater will also raise the water temperature 5 degrees F. at the recirculation rate of flow- 1200 gallons per minute.

(i) Cycle of Operation, Division Training Area. Each time these pools are emptied they will be refilled with Station water having a pH of about 8.5, alkalinity of 50 p.p.m. and soap hardness of approximately 53 p.p.m. Laboratory tests previously made indicate that about 3 grains per gallon of alum are required to flocculate this water in its normal condition. This dose is obviously too high for normal operation and accordingly, alum should be added by broadcasting directly into the pool during each refilling by such amount as is required to reduce the pH to 6.4 or to whatever pH value is found to produce good flocculation. Unless this is done it will be necessary to operate the plant during each refilling and dose with alum alone by means of the chemical feeder until a sufficient amount has been introduced to lower the pH value to the optimum point. The latter procedure will require much recirculation with added cost for pumping, as against the quick and more economical method of adding alum direct to the incoming water. Careful pH control must be exercised in either case.

The pH value for proper coagulation, once determined, should be permanently adhered to for plant operation and control. As stated above this pH will probably be on the acid side or less than 7.0. Therefore after passing through the filters and before entering the pool, soda ash must be introduced to raise the alkalinity to a corresponding pH value of 7.0 or higher as needed to prevent irritation to the eyes and nose of swimmers. The exact pH of the pool water must be determined by trial and the chemical feed apparatus should be set to maintain the required conditions for continuous recirculation at the rate of 1200 g.p.m.

The pH of the pool water should be no higher than is actually required as otherwise an excess of alum will be needed to secure adequate coagulation.

If the pool has been out of operation for any period of time, the water supply line should be flushed by wasting down the line provided until all sediment or other foreign matter has been cleared. This should be done before any water is admitted to the pool to prevent any discoloration of the pool concrete.

Two-thirds of the pool may be drained by gravity to the wash water tank. The remainder can be pumped out with the recirculation pump.

(j) Fire Hydrant Connection. A fire hydrant connection was made to each pool to provide an emergency water supply for fighting nearby conflagrations. A sign was provided alongside of each hydrant designating it as such and the hydrant was also painted a contrasting color to the finish given the hydrants connected to the water system.

(k) Cycle of Operation, Montford Pt. Area Pool. The swimming pool designed for this area also will take untreated water directly from the distribution system for filling and for makeup purposes. However, analysis of this supply shows concentrations of carbonic acid gas and iron greatly in excess of that which can be tolerated for this usage.

Laboratory tests indicate that these constituents can readily be removed by proper aeration followed by filtration. Accordingly, this plant is equipped with a simple perforated tray aerator designed to treat raw water at the rate of 300 g.p.m. This rate of flow was selected as the maximum draft permissible on the distribution system.

After aeration the water is pumped at 300 g.p.m. through the filters and into the pool. The dosage of alum to be as needed from the chemical feeder to secure good coagulation. Soda ash is to be introduced after filtration exactly as is provided in the Division Training Area pools.

After the pool is filled with iron free water, the filters must be thoroughly washed and then the normal cycle of operation at a recirculation rate of 1200 g.p.m. put into effect. No broadcasting of alum will be required when refilling the pool with this water. Make-up water will be aerated and taken directly into the recirculation system without pumping. Any flushing of the water supply line to waste can be done at the aerator. The pool can be emptied in the same manner as is employed in the Division Training Area pools.

M-15.03. Paradise Point Swimming Pool. The basic design of this pool employs the same type of water treatment and recirculation as was used in the training pools, the chief differences being the elimination of a pool water heater, the addition of a wading pool and modifications due to the smaller water contents of the pool.

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(a) <u>Design</u>. The water contents of the pool are approximately 177,500 gallons. Recirculation is at the rate of 510 gallons per minute, which is equivalent to four turnovers per 24 hours. The same water supply as is used in the Regimental Areas 2 and 5 pools, namely, from the Division Training Area Water Treatment Plant, is also used at this pool.

(b) Filters. Three vertical type steel pressure filters have been provided. Each filter is capable of filtering 170 gallons per minute at a 3 gal. per sq. ft. per minute rate. Filter media are of the conventional sand and gravel types. Each unit is provided with air relief valves, pressure gauges and rate-of-flow indicators.

(c) <u>Circulating and Wash Water Pump</u>. A single pump unit has been provided for both recirculation and for back washing the filter units. The pump has characteristics whereby normal recirculation is accomplished at 510 gallons per minute against a 40-foot head and back-washing at 700 gallons per minute against a head of about 25 feet. The unit will be electric driven at 1750 revolutions per minute by a 10 horsepower water, with push button controls.

(d) Chemical Feed Equipment. The chlorinator and ammoniator are of the identical size used in the training pools. The alum and soda ash feed equipment have been reduced in capacity in proportion to the reduced water contents of this pool.

(e) Venturi Meter. An 8-inch diamter venturi meter was training pools.

(f) Wash Water and Waste Lines. Filter washing will be at the rate of approximately 700 gallons per minute and rewashing at 170 gallons per minute controlled by the same means as described for the previous pools. The wash water tank is drained directly to New River as

(g) <u>Chemical Storage</u>. Floor space left in the Filter Room will provide storage for 3 tons of soda ash and 5 tons of alum. Under normal operation this supply should be sufficient for 90 days continual run.

(h) Cycle of Operation. The same cycle of operation exists in this pool as was provided in the Regimental Areas 2 and 5 pools. The recommendations set forth therein apply equally well to this pool also. However, this pool can be drained entirely by gravity to the main drain line discharging into New River. A valved cross connection has also been provided between the pool drain line and the recirculating pipe line so that it too may be drained. With this scheme of drainage the recirculating system and the pool can be kept drained automatically throughout any periods the pool is out of operation.

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of approximately 5500 gallons. The pool is supplied from the potable water supply system and is not connected to the recirculating system of the swimming pool. Overflow is wasted to the sewer. This was considered the most satisfactory method of handling the wading pool water because of its relative highly contaminated nature and the resultant heavy load it would throw on the filters if connected to them. Also, wading pools must he drained and cleaned at very frequent intervals necessitating relative high losses of water anyway.

The overflow is regulated by an adjustable 12-inch length weir at the opposite end of the pool from the inlets. It is recommended that a turnover rate of about 3 hours be used which would be an overflow of approximately 30 gallons per minute. This, however, would only be applicable when the pool is loaded and in full use. At all other times the water supply should be cut off. This is very important in view of the fact that the water plant in the Division Training Area is rapidly becoming overtaxed by normal demands alone.

(i) Wading Pool. The wading pool has a water content

1-16. Summary. A summary of the pipe quantities of various sized used in the distribution systems and also for services, together with the number of fire hydrants installed, is shown in the following tabulation (as of December 18, 1943):

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CHAPTER N - PART II

SEWAGE COLLECTION AND TREATMENT

	Contents
Section	Title
N-1	Introduction
N-2	General Design
N-3	Tent Camps Nos. 1 and
N-4	Division Training Are
N-5	Midway Park Residenti
N-6	Montford Point Area
N-7	Barrage Balloon Batta
	Amphibian Base Ar
N-8	Rifle Range Area
N-9	Glider Training Base
N-10	Peterfield Point Tent
N-11	Tank Battalion Tent C
N-12	Beach Area
N-13	Recommendations for M
	Operation
N-14	Summary

N-1. Introduction. The sections that follow have been arranged in the order that they appear in Volume II with the new areas following the original ones. Only work designed in the time interval covered by this report is described in these sections with sower quantities of the work to be built being shown in the sewer quantities schedules. No figures are shown for work designed but not to be built at this time.

N-2. General Design. The same design data as set forth in Volume II were used in the design of the supplementary work. Additional design data used for the sewage treatment plants are set forth in the sections covering the various plants.

N-3. Tent Camps Nos. 1 and 2. No additions or changes were made to the sewerage system in this area.

N-4. Division Training Area.

N-4.01. Regimental Areas.

(a) Regimental Area No. 1. Additional building connections were constructed in this area when the Women's Reserve took over to suit the additional facilities needed. No plans were prepared, the connections being located at the discretion of the outside construction forces employed by the U. S. Navy Department at that time. However, the approximate location of the majority of the connections were located as

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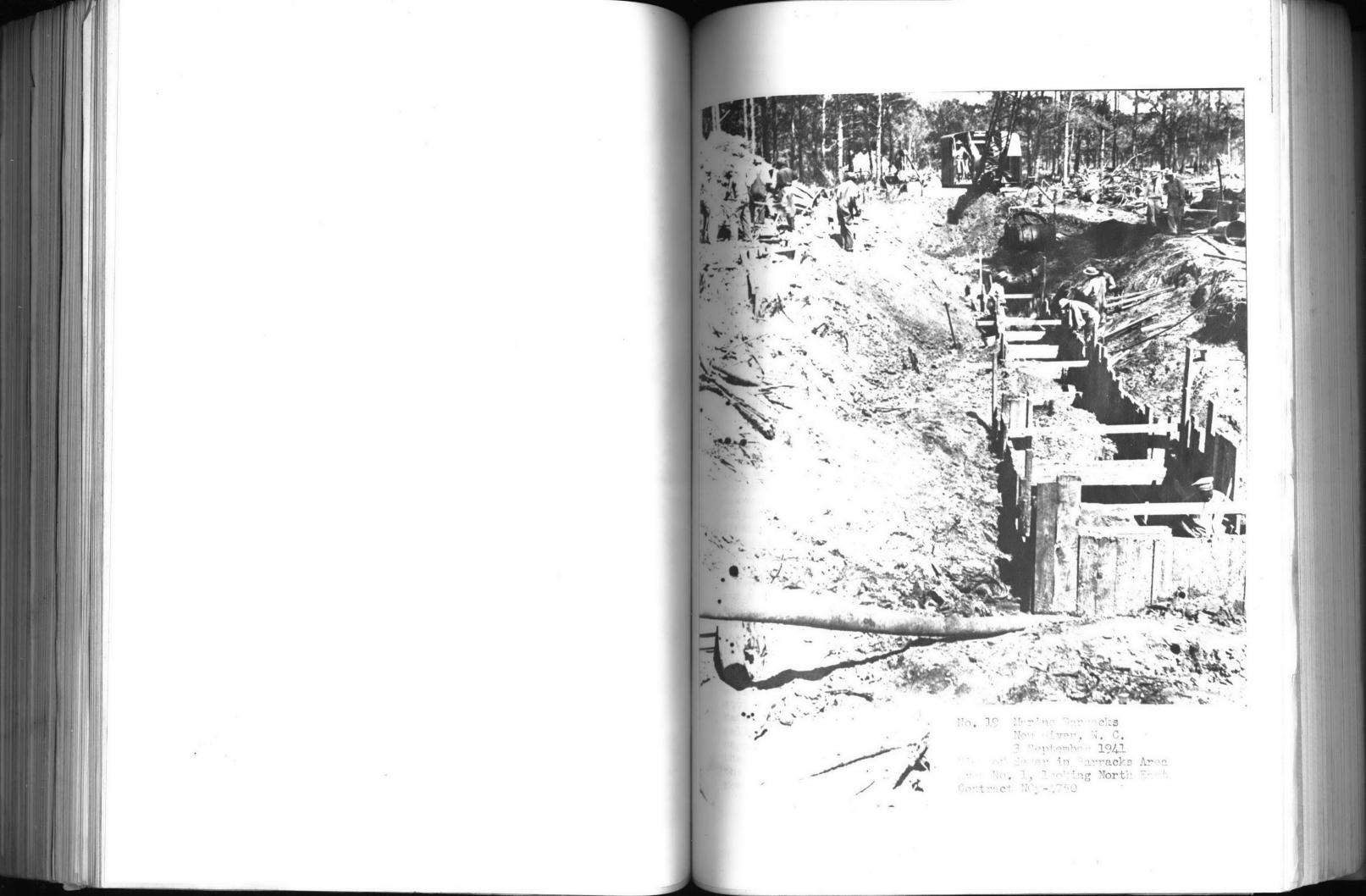
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No. 142 Marine Barracks New River, N.C. 17 January 1942 Addition to Sewage Treatment Plant of Tent Camp No. 1 for Tent Camp No. 2 Tent Camp No. 2 Contract NOy-4750



built and have been shown on the fecord drawings.

(b) Regimental Area No. 2. Additional 8-inch diameter Interals from the existing system were constructed in this area to serve the Bus Terminal and the sanitary flow from the Swimming Pool. The wash water from the pool filtors, the filter room floor drains and the scum entter drainage were conducted to a nearby drainage ditch as directed. The pool can be emptied to the ditch, also, through the same drain line.

tions or changes made to the systems in these areas.

(d) Regimental Area No. 5. In this area an additional 8-inch diameter lateral from the existing sewerage system was constructed to handle the senitary flow from the Swimming Pool. The wash water from the pool filters, the filter room floor drains and the scum gutter drainage were conducted to a nearby drainage ditch as directed. The pool may be emptied to the ditch, also, through the same drain line.

N-4.02. Naval Hospital Area. The only addition made to the system in this area was for the 6-inch connection extended to serve the new plumbing outlets occasioned by the alterations to Ward 8.

N-4.03. Industrial and Supply Area. A short 8-inch diameter lateral and several connections were added to the existing sewerage system in this area to serve the following: (1) Mark I Gunnery Trainer Bldg. (No. 39): (2) grease traps on the north side of the Division and Post Garages that could not be served by the original sewer layout; (3) two new warehouses (Bldg. No. 1108 and 1606), and (4) a decontamination building (No. 1409). The Labor Battalion group of buildings while adjacent to this area was located on ground too remote from the existing system and a new 15-inch trunk sewer had to be constructed from the existing trunk sower where it crossed Gum Street. This sewer also serves the Communications Building (No. 1707). The alternative of installing a sewage pumping station for these buildings was considered but was ruled out because there was no saving in cost of construction, an operating cost of another pumping station would be added and the force main from the pumping station would be discharging into the existing sewerage system of the Industrial and Supply Area which was not designed to serve the area in which the Labor Battalion was located. The 15-inch trunk sewer was laid on a minimum grade and sized so that additional areas adjacent to the Labor Battaion and along Michael Road could be served. The present estimated population contributing to this sewer is 1500, including an equivalent population of 500 for the Public Works Office and its attendant cafeteria operation. The capacity of the trunk sewer is 1.42 million gallons per day. While this new trunk sewer has approximately the same capacity of the existing sewer it is discharging into, it was felt that the diversion factor would be of such nature that peak flows from both the Industrial and Supply Area and the area this new sewer serves would not reach the junction point at the same time.

(c) Regimental Areas Nos. 3 and 4. There were no addi-

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N-4.04. Post Troops Area. An 8-inch diameter lateral and several connections were added to the sewerage system in this area to serve the Red Cross Building (No. 41). the Battalion Warehouse (Bldg. 27) that was altered to serve as a Photo Shop, and one of the Bachelor Officers' owarters (Bldg. 67) in the Women's Reserve Area.

N-4.05 Women's Reserve Arcal The sewers in this area are an extension of the existing sewers located in the Post Troops Area that were designed for future extensions.

N-4.06. Grade and High School. The nearest existing sewer available was a shallow trunk sewer serving the Midway Park Residential Area. It was readily apparent, therefore, that a sewage pumping station would he needed, and Paradise Point Sewage Fumping Station No. 13 was designed. The station and the main sewers and force main connected to it were designed to serve the area in the vicinity of the Holcomb Boulevard and Paradise Point Road intersection as well as the Grade and High School. The station is provided with two electrically driven vertical centrifugal pumps with identical capacity of 150 gallons per minute when operating against a total dynamic head of 21 feet. Because of war conditions and the scarcity of materials no standby service was provided but one pump has countor-clockwise rotation so that an angle gear and standby gasoline engine can be added easily when that equipment is more readily available. The incoming 12-inch sewer has a capacity of one million gallons per day. The population to be served at the School is 450.

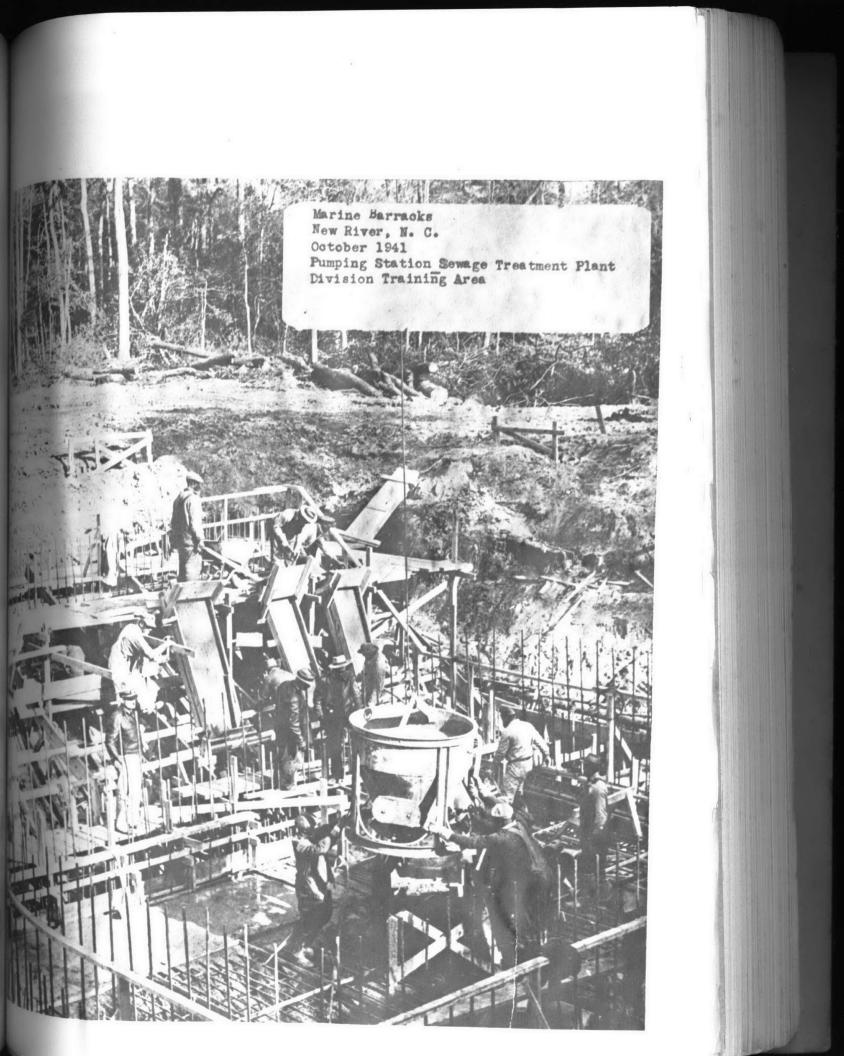
N-4.07. Residential Area. New sewers were constructed and a lateral extended in this area to serve the Radar Area No. 2, the Messmen's Quarters near the Bachelor Officers Quarters and the Swimming Pool.

(a) Radar Area No. 2. Two 6-inch diameter sewers discharging into soaking pits were provided for the buildings in this area. One sewer handlos the sanitary flow and the other the floor and trench drains.

(b) Messmen's Quarters. An 8-inch diameter lateral was extended from the existing sewerage system in the Bachelor Officers Quarters Area to serve these buildings.

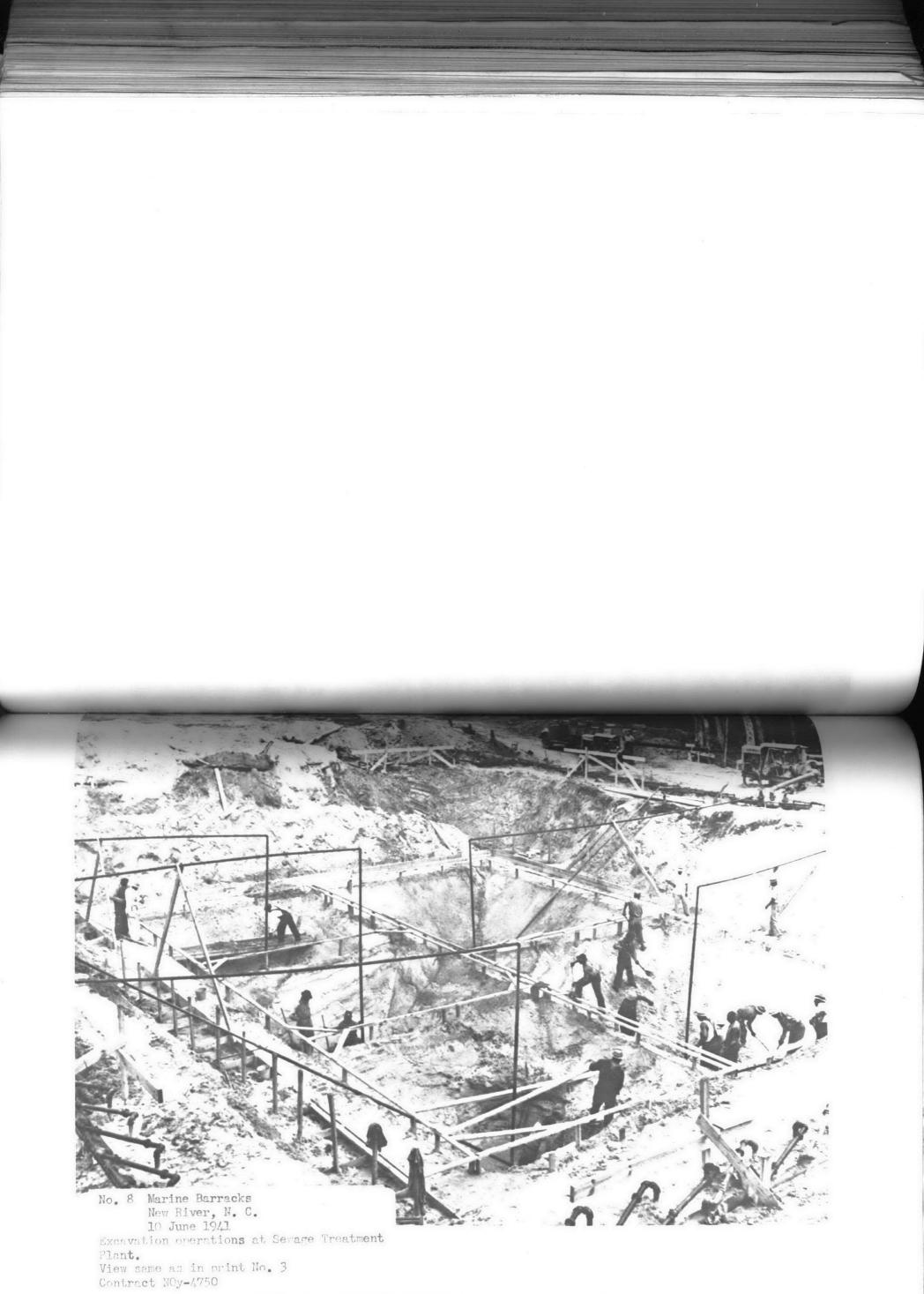
(c) Swimming Pool. The flow from the locker rooms was conveyed to the existing sewerage system with a 6-inch diameter connection. The wash water from the filters. the scum gutter drainage and the filter room floor drains were conducted to New River by a 10-inch diameter drain line as directed. The pool can also be drained into New River.

N-4.08. Sewage Treatment Plant. No additions or changes were made at the Sewage Treatment Plant. However, preliminary plans were pre-Pared and filed with the Fublic Works Office showing additions that would provide secondary treatment by the use of the activated sludge process.

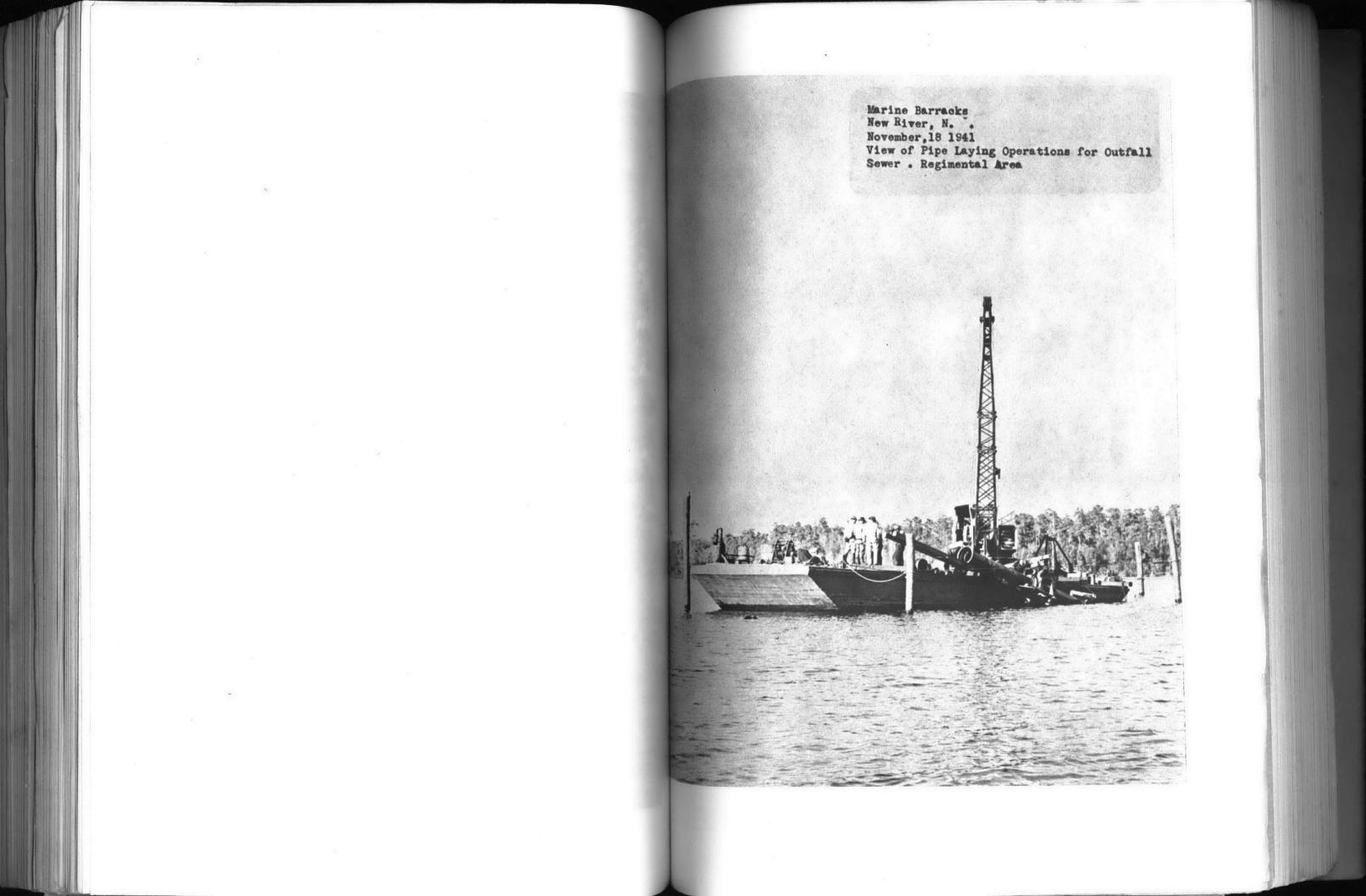


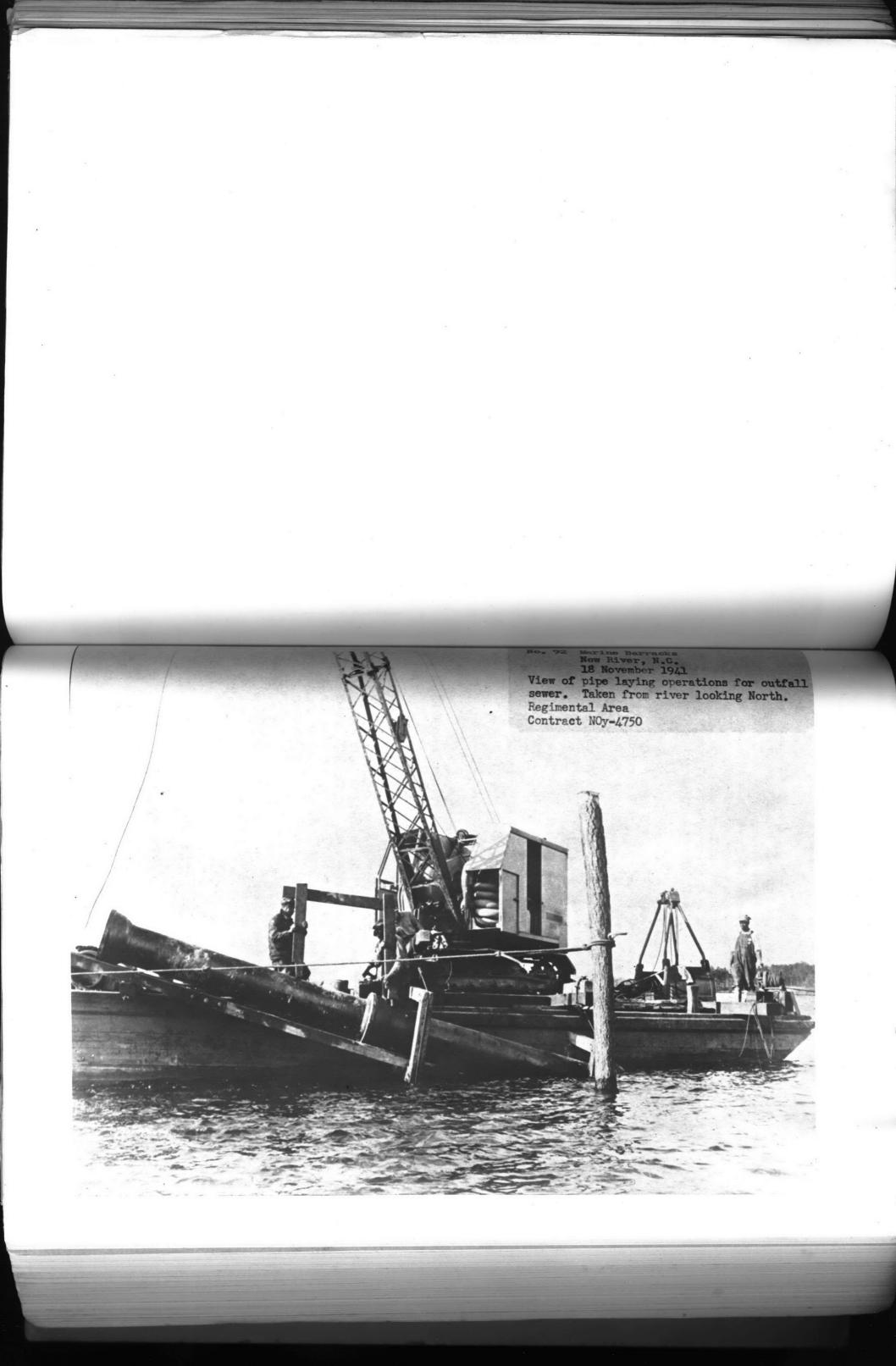












The plans embody only general arrangement, piping layouts, electrical layout and tank sizes. Reinforcing, grading and other detail drawings were not prepared because the exact type of equipment to be used was not known at the time. The drawings now on file were prepared on the basis of using the tapered aeration principle with diffusor tubes and swing joint assemblies in the aeration tanks and endless chain collector system for sludge collection in the final settling tanks. Data used in the design are as follows:

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=	4.5 cubic feet
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All other factors used were identical with those used in the design of the original plant.

Toward the middle of 1943, it became apparent that the existing plant, which was designed for an average flow of two million gallons per day, would be too small when the new additions to the Division Training Area and Midway Park Residential Area were occupied. On August 31, 1943, recommendations were submitted to the Officer in Charge for enlarging the plant to serve a population of at least 27,000 with an average contribution of 100 gallons per capita. In view of the scarcity of materials and equipment due to war conditions, the recommendations were made on the basis of expanding the existing primary treatment facilities, by addition of (1) a primary settling tank of the size of the existing tanks, (2) two comminutors of the same size and characteristics of the existing equipment, and (3) a 2600 gallon per minute gasoline-electric driven centrifugal pump in the sewage pumping station. No action had been taken on the recommendations as of December 18, 1943.

N-4.09. Sewer Quantities. The following sewer quantities were added to those shown in Volume II:

4 "	-	231'	15"		302
6"	-	8865 '	18"	**	59
8"	-	5485'			
10"	-	2361'	Total		2406
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1.5. Midway Park Residential Arca. No changes or additions were designed for the sewerage system in this area. There have been additional sewers instructed in this Area, but all work was done under the supervision of the officer-in-Charge of Midway Park: No additional quantities have been shown in the schedule of "Total Sewer Quantities" listed in Section N-14.

1-6. Montford Point Area.

N-6.01. Expanding from the original Tent Camp (which has been design rated as Camp No. 1) this Area now includes Camps No. 1, 2, 2A and 3 and old Camp Knox. The entire Montford Point Area as thus defined is served by one sewage treatment plant and a sewage collection system completing tying in all the camps. The entire system was not designed at one time, however, as the several camps were conceived on various dates, the system was extended and expanded to serve them.

N-6.02. Camp No. 1. No changes or additions were made within the confines of the Camp proper but a lateral and a trunk sewer were connected into the original system for this area to serve the adjacent Camps, and the sanitary flow, including scum gutter drainage, from the Montford Point Swimming Pool (Bldg. No. M-139) was connected to the system just ahead of the treatment plant. The Swimming Pool Filter Room floor drainage and wash water from the filters was conveyed to Scales Creek by means of an open ditch as directed.

N-6.03. Camps No. 2 and 2A. In January, 1943 plans were prepared for Camp No. 2 to be located approximately 2500 feet southwest of Camp No. 1. A 10 inch diameter trunk sewer with a capacity of 0.65 million gallons per day was extended to this area from the existing system in Camp No. 1 to serve a population of 1000. It was connected just ahead of the existing sewage treatment plant, so that the present plant could be utilized by expanding its capacity if necessary to the ultimate that was provided for in its original design. It was impossible to reach Camp No. 2 without a sewage pumping station and Sowage Pumping Station No. 10 was designed to lift the sewage from Camp No. 2 into the trunk sewer extended from Camp No. 1. Two identical 150 gallons per minute horizontal centrifugal pumps to operate against a total dynamic head of 17.5 feet were provided. Horizontal pumps were used in place of vertical pumps because they were readily available and vertical pumps could not be procured in time for the occupancy date set for Camp No. 2. No standby service was provided because of the scaracity of material and other similar war conditions. At some future date, however, an engine drivon generator set could be mounted on the top of the station to provide current to the motors when a power failure occurs. At present, an overflow to a nearby drainage ditch provides a relief against flooding of any buildings. Early in March, 1943 plans were prepared for an addition to Camp No. 2 for the housing of white officers and was designated Camp No. 2A. The 10-inch trunk sewer serving Camp No. 2 was extended to serve this Camp, also, with an expected population of 250.

N-6.04 Camp No. 3 Late in March, 1943 plans were prepared for Camp No. 3, to be located immediately adjacent to Camp No. 1, and to house 4000 men. This was a much larger increase in population than had ever been envisaged for the Montford Point Area and it was readily discernible that the existing sewerage system and sewage treatment plant would be entirely inadequate; An entire new sewerage system had to be laid out for Camp No. 3 and the small plant greatly expanded and added to, ... Inasmuch as the majority of Camp No. 3 was to be in Scales Creek watershed and any possible expansion of it would probably continue to be within it, to-gether with the fact that the available housing existing in the abandoned C.C.C. Camp was in this watershed, it was decided to design the main trunk line serving this area as an interceptor for the handling of all sewageflows, originating in or near the Scales Creek watershed. Final design of the interceptor was made on the basis of the flow computations shown in "Flow Sheet" that follows:

FLOW SHEET - SCALES CREEK WEST BANK TNTERCEPTOR

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Area	Popu- lation	Total Popu- lation	Flow	lative	Size	% Grade
Camp No.3 and Suture Expansion W. Bank Scales Cr.	7000	7000	1.4	1.4	18"	0,15
Camp No. 3	1000	8000	0,3	1.7	20"	0.16
East Bank - Scales Creek	4000	12,000	1.2	2.9	21"	0,13
4 Camp No.3 and Future Expansion along Montford Landing Road	4000	16,000	1.2	4.1	21"	0.10
E	ast Bank - Scales Creek Camp No.3 and Uture Expansion Long Montford	Camp No.3 and Creek Camp No.3 and Cuture Expansion Long Montford 4000	Camp No. 5 2000 12,000 Creek Camp No.3 and Suture Expansion Llong Montford 4000 16,000	Camp No. 5 2000 12,000 1.2 Creek Camp No.3 and Suture Expansion Clong Montford 4000 16,000 1.2	Camp No. 5 2.9 Creek Camp No.3 and Uture Expansion Clong Montford 4000 16,000 1.2 4.1	Camp No. 5 1000 0000 0000 000 100 Cast Bank - Scales 4000 12,000 1.2 2.9 21" Creek Camp No.3 and Uture Expansion Llong Montford 4000 16,000 1.2 4.1 21"

The school buildings and Infirmary could not be served by this new system because of their location and a 10-inch diameter lateral was extended to them from the old Camp No. 1 sewerage system.

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N-6.05 Camp Knox. The original sewerage system in this Camp was designed and built by the Civilian Conservation Corps. It consisted mainly of 4" sewers and septic tanks with effluents emptying into the nearest stream. In January; 1943 plans were prepared to use Block "D" of this Camp for Dog Training facilities! The existing sewerage system in this Block was rehabilitated and two septic tanks with connecting sewers were added for the Dog Hospital and Kennels. In June, 1943 plans were made to: rehabilitate the remainder of Camp Knox and it was decided to install a new sewerage system for the entire Camp. The system and sewage pumping station were designed for expansion along the east bank of Scales Creek as well as to handle the immediate flows, The Bewage pumping station, designated as Scales Creek Sewage Pumping Station (No. 12), was provided with two identical electricallydriven 300 gallons per minute vertical certrifugal pumps to operate against a total dynamic head of 25 feet. The sewage is lifted into the Scales Creek West Bank Interceptor at manhole No. 747 in Camp No. 3. No provision for standby service was provided, but connections were left for a third pump which could be a dual drive unit, driven by a gasoline engine or electric motor. In the event of a power failure now, the overflow or by pass that has been provided at the Station will conduct the flow to Scales Creek. The 18 - inch diameter Scales Creek East Bank Interceptor that empties into this Station has a capacity of 2.3 million gallons per day.

N-6.06 Sewage Treatment Plant. The existing sewage treatment plant was designed for an average flow of 0.18 million gallons per day and to serve a population of 1800. Primary treatment had been provided consisting of bar screen, grit channel, Imhoff tank, sludge. beds, pre-chlorination and post - chlorination. The effluent discharged into Northeast Creek through an 8 - inch diameter outfall. The additions to the existing plant were designed for an expected population of 8000 and an ultimate population of 16,000. The existing plant and the additions were fully inter-connected so that the old plant could be kept in service during the construction of the additions and could be taken out of service when the additions were completed. A brief description of the capacity and characteristics of the various structures follows:

Bar Screen. An inclined manually cleaned bar screen fabricated of 3/8 - inch by $1\frac{1}{2}$ - inch bars with 2 - inch clear openings and set in a concrete channel was provided just ahead of the grit channels.

Grit Channels. Two grit channels have been provided. The larger channel has a rectangular cross - section for handling average flows of 0.8 million gallons per day and the smaller channel has a trapezoidal cross-section for handling the smaller flows. Both channels have a peak capacity of 2.6 million gallons per day at a flow velocity of one foot per second.

Pre-Chlorination Chamber. A pre-chlorination chamber has been provided at the end of the Grit channels to provide a point of application rahead of Imhoff Tanks. Pre-chlorination is provided by the existing manually controlled 40-pound chlorinator.

Imhoff Tanks. Two Imhoff Tanks were provided just after the influent structures described above. The Settling Chamber capacity of each tank was designed on the basis of a 3 - hour detention period for flows of 0.4 million gallons per day. Two settling chambers were provided in each tank to eliminate an excessively deep Imhoff Tank and to provide settling facilities for flows as low as 0.2 million gallons per day. The sludge chamber has a capacity of 1:9 cubic feet per capita or a total capacity of 7640 cubic feet. No division was made in the sludge chamber . Sludge is drawn off by gravity - the sludge beds being 4.2 feet below the water level in the Imhoff Tank.

Sludge Beds. Six sludge drying beds have been provided by adding to the existing beds. The total area of the beds is 8400 square feet providing 1.05 square feet per capita. The sludge liquor is drained to Scales Creek.

Parshall Flume. A Parshall Flume with a 9" throat was provided for measuring the sewage flows and to regulate the automatic post chlorination equipment. Flows are recorded by a float operated flow meter located in the nearby Chlorination Building.

Post-Chlorination. Post chlorination is provided by a Wallace and Tiernan automatic chlorinator capable of delivering 40 to 200 400 pounds of chlorine per 24 hours. Scales have been provided for the future use of the one ton chlorine containers but no hoists nor monorails were provided at this time. Adequate ceiling heights and door clearances were left in the building housing the equipment for installtion of this equipment when the large chlorine containers are available. Chlorine is applied in a chlorine contact chamber located at the end of the Parshall Flume.

Outfall. A new 18 - inch diameter cast iron pipe outfall was provided, extending 1200 feet out into Northeast Creek. The new outfall was inter-connected inshore with the old 8 - inch diameter outfall to provide dispersion over the largest area possible. The combined outfalls have a peak capacity of 5 million gallons per day. The outfall was further designed to provide for expansion of the plant for secondary treatment just after the post-chlorination chamber. An area for this expansion south of the new plant has been reserved on site plans of the Montford Point Area.

Office and Tool Storage Building. A small building was provided to serve as a storage for tools, equipment, etc.; to furnish toilet facilities, and to provide an office for the operator. A small laboratory sink was placed in the office for minor chemical analysises.

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N-6.07 Sewer Quantities. The following sewer quantities (not including piping within the sewage treatment plant) were added to those shown in Volume 2

4"	-	548			
6"	-	6218			
8"	-	9574			
10 ^{tt}		7633			
12"	-	2161			
15"	4	4815			
18"	-	3207			
20"	-	278			
21"		2191			
Total		36625	 or	6.94	miles

Number of manholes - 95

N-7. Barrage Balloon Battalion and Amphibian Base Area. No changes or additions were made to the sewerage system in the Area exa: cept for connections built to the new Bachelor Officers Quarters Building. The following sewer quantities were added to those shown in Volume II to cover these connections as well as extensions to the disposal field in the Amphibian Base and the extension of a 6" lateral to the Supply and Storage Building in the School Area. (This latter work was done before Sept.30, 1942 but after Volumes I and II data had ~ been compiled.)

6" - 1462 ft. 8" - 2 ft.Total 1464 ft. or 0.28 miles Number of manholes - 3

N-8. Rifle Range Area.

N-8.01 In March, 1943 plans were prepared for a 1000-man Colored Troops Camp about 2000 feet South of the Range Road. Since the existing sewage treatment plant was capable of easy expansion to handle this additional load, it was decided to convey the flow from this Camp to the existing plant rather than provide a separate plant, Comparative costs being in favor of this procedure also. The area in which this new Camp was located was too low to be reached by a gravity trunk line so the entire flow from this area was collected and conveyed to a sewage pumping station, designated as the Rifle Range Colored Troops Camp Sewage Pumping Station . (No. 11), which lifts the flow into a short trunk line extended from Manhole No. 335 on the existing trunk line in Range Road. No changes or additions were made to the system in the old area.

N-8.02 Rifle Range Colored Troops Camp Sewage Pumping Station (No. 11). The Colored Troops Sewage Pumping Station was located some distance from the Camp in order to shorten the force main and to place the Station in an advantageous location for future expansion in and a start of the
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the area west of the new Campi Two identical 150 gallons per minute., horizontal electrically driven, centrifugal pumps to operate against a total dynamic head of 20 feet were provided. As in the Montford Point Camp No. 2 Sewage Pumping Station (No.10) horizontal pumps were used instead of vertical pumps because of war conditions. No standby service was provided but in the event of a power failure the overflow or by pass provided near the Station will relieve the flow into a nearby stream:

N-8.03 Expansion of Sewage Treatment Plant. The Rifle Range Sewage Treatment Plant was expanded to handle the new additional flow by the installation of another Imhoff Tank of identical size, capacity and features as the existing tank and the expansion of the existing sludge beds to twice their area. Chlorination facilities and outfall were of sufficient size to handle the increased flow.

N-8.04 Sewer Quantities. The following sewer quantities (not including piping within the sewage treatment plant) were added to those shown in Volume II.

 $\begin{array}{rcrcrcr}
6" & - & 500 \\
8" & - & 1309 \\
10" & - & 1696 \\
12" & - & 332 \\
\hline
Total & & 3837 & \text{or} & 0.72 \\
\end{array}$

Number of manholes - 10

N-9 Glider Training Base Area.

N-9.01 In January, 1943, complaints were received from the Officer in Charge of this area that the septic tank was over flowing at the top and causing a general nuisance in the low-lands surrounding it. The complaint was made just following a protracted rainy period and the area around the disposal field was found to be saturated, with some ponding on the surface. It was apparent that extension of the disposal field would do little to relieve the condition so, as was expected when the installation of the septic tank was originally made an 8-inch diameter emergency overflow to New River had to be provided for the existing disposal field. The invert elevation of the overflow was set so that the disposal field would be flooded 1.4 feet before it went into operation. In August, 1943, plans were projected for Lighter than Air Facilities to be located 2000 feet south of the old area. Since only 15 men were to be housed in the Quarters and Storage Building for these facilities, a septic tank and disposal field were designed to handle the small expected flow. The septic tank had a settling capacity of 4050 gallons and a sludge capacity of 216 cuft. 500 feet of open joint drains were to be provided for a disposal field. As of December, 18, 1943 no action had been taken to construct these facilities.

N-9.02 Sewer Quantites. As the Lighter than Air Facilities were not constructed only 255 lineal feet of 8" sewer were addad in this area.

N-10 Peterfield Point Tent Camp. No changes or additions were made to the sewerage system in this Camp.

N-11 Tank Battalion Tent Camp. No changes or additions were made to the sewerage system in this Camp.

N-12 Beach Area.

N-12.01 In August, 1943 plans were prepared for Signal School Facilities to be located about 2500 feet south of the Ponton Bridge on the narrow strip of land between the Atlantic Ocean and the inland waterway. The average elevation of the ground in the building area was only 5.5 feet above mean sea level so it was readily apparent that the sewerage system would have to be of an unconventional nature if the installation of a sewage pumping station was to be avoided. It was decided to set the elevations of the system as low as possible, yet high enough so that a water level in the Imhoff Tank of the sewage treatment plant would provide enough head to force the sewage out into the Inland Waterway against normal tides.

N-12.02 The Collection System and Connections. The Collection System and Connections were built entirely of cast iron pipe and in general are aerial sewers supported on single pile bents. Due to the poor foundation conditions prevalent in this area timber pile foundatitions and cast iron pipe would have been necessary even if the sewers had been constructed along conventional lines. Part of the cost of the pile foundation was shared by the installation of the steam distribution system on the same pile bents. To further economize only one manhole was used and it was located just ahead of the sewage treatment plant and served as a pro-chlorination point of application as well as a manhole. Other points of access to the system were provided at serveral points by leaving tees with branches upturned and plugged.

N-12.03 Sewage Treatment Plant. The sewage treatment plant was designed for a population of 1800 and an average flow of 180,000 gallons per day. This furnishes capacity enough for both present expected flows as well as future expected flows. It was not considered economical to build a plant of any smaller size. The plant is similar to those built in the other outlying area and consists of: (1) a prechlorination manhole, (2) a manually cleaned bar screen. (3) & grit, channel,(4) an Imhoff tank, (5) a post-chlorination chamber.(6) sludge drying beds and (7) an 8-inch cast iron pipe outfall into the Inland Waterway. The two major differences in design consisted of the pumping of sludge and the construction of the chlorination chamber integral with the tank. The sludge is drawn off from the Imhoff Tank to the sludge drying beds by a portable diaphragm pump. The chlorination house was enlarged over and above those used at the other, locations to provide a storage place for the pump when it is not in use. The chlorination chamber was provided in place of the usual manhole to furnish a 25 minute contact period at average flows. This was considered essential at this location because of the short outfall being used.

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N-12.04 Sewer Quantities. The total sewer quantities (not including piping within the sewage treatment plant) for this area are as follows:

6" - 655 8" - 485 10" - 675 12" - 50 0.35 miles Total 1865 or Number of manholes 1

N-13 Recommendations For Maintenance and Operation.

N-13.01 There are no new recommendations to be added to those listed in Volume II. The recommendations as listed therein apply equally well to the supplementary construction.

N-14 Summary.

N-14.01 To Summarize briefly, as of December 18,1943 there was completed or well on the way to completion the following sewerage construction .

- 1. 338.682 lineal feet or 64.14 miles of sewers: (See table N-14.02)
- 2. Thirteen sewage pumping stations. (See table N-14.03)
- 3. Six sewage treatment plants. (See table N-14.04)

4. Fifteen septic tanks, The two septic tanks built for the Dog Training Camp were later put out of service by the installation of a sewerage system in the area in which they are located. (See table N-14.05)

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Title

Total Sewer Quantities

				TOTAL NUMBER OF				
A	27"	30"	36"	LIN. FT.	MILES	M.H's.		
TENT CAM				31,863	6.04	89		
DIVISION 7	2,003	1,750	3,629	159,715	30.29	360		
MIDWAY PA				65,259	12.36	145		
MONTFORE			•	41,924	7.94	108		
BARRAGE E and AMPH				14,889	2.82	30		
RIFLE RA				16,012	3.03	31		
GLIDER T				2,964	0.56	G		
PETERFIEL				2,066	0.39	7		
TANK BAT				1,883	0.36	7		
BEACH AI				1,865	0.35	1		
TO	2,003	1,750	3,629	338,682		784		
τ	0.38	0.33	60.0		64.14			

LIST OF SEWAGE PUMPING STATIONS

STATION	LOCATION		1	PUMP	SIZES	\$
N2	LOCATION	AREA	Nº1	Nº2	Nº3	Nº4
1	SEWAGE TREATMENT	DIVISION TRAINING	1000 G.P.M.	1500 G.P.M.	(d) 2600 G.P.M.	FUTURE
2	RIVER ROAD	NAVAL HOSPITAL	200 G.P.M.	(d) 300 G.P.M.	-	-
3	WALLACE CREEK	RESIDENTIAL	500 G.P.M.	FUTURE	(D) 800 G.P.M.	-
4	NEAR BACHELOR OFFICERS' QUARTERS	RESIDENTIAL	200 G.P.M.	(d) 200 G.P.M.	-	-
5	AUTUMN OVAL	RESIDENTIAL	50 G.P.M.	50 G.P.M.	-	-
6	BUTLER DRIVE, NORTH NEAR FIRST STREET	MIDWAY PARK RESIDENTIAL	300 G.P.M.	300 G.P.M.	(D) GOO G.P.M.	-
7	ELLEN PATH	BARRAGE BALLOON BATTALION and AMPHIBIAN BASE	140 G.P.M.	(D) 200 G.P.M.	-	-
8	SEWAGE TREATMENT	TENT CAMPS Nos. 1 and 2	1500 G.P.M.	(d) 2250 G.P.M.	FUTURE	
9	HOLCOMB BOULEVARD AT BIRCH STREET	PARACHUTE TRAINING	100 G.P.M.	(d) 200 G.P.M.	-	-
10	CAMP No.2 (NEAR WILSON DRIVE)	MONTFORD POINT	(H) 150 G.P.M.	(H) 150 G.P.M.	-	-
н	BOOKER T. WASHINGTON BOULEVARD COLORED TROOPS CAMP	RIFLE RANGE	(H) 150 G.P.M.	(H) 150 G.P.M	-	-
12	FLORENCE ROAD	MONTFORD POINT	300 G.P.M.	300 G.P.M.	FUTURE	-
13	PARADISE POINT RD.	DIVISION TRAINING	150 G.R.M.	150 G.R.M.	-	-

NOTE:- (D) ALONGSIDE SIZE OF PUMP INDICATES THE UNIT IS DUAL GASOLINE-ELECTRIC DRIVE FOR STANDBY AS WELL AS REGULAR SERVICE. (H) ALONGSIDE SIZE OF PUMP INDICATES HORIZONTAL UNIT. ALL OTHER PUMPS ARE VERTICAL UNITS.

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LIST OF SEWAGE TREATMENT PLANTS

			Perer Ngtaran		
104 008 1040				WALLER CHESK	
				HEAR PLICAELOR PLICARE ADAR ERS	
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			NOCLIAE BERRAT BER MOLIATIAE MENDERMA	ELLEN PATH	
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	100	(*) 0.81 189 8	RUPLE RANGE		
			MONTFORT POINT		
			SHINDART HOLEN ICH	GR 10101 BECARAS DOBE 1001 8 HEASE TA	

		(Aver. Flow) LLONS PER DAY	POPULATION	N CAN SERVE		
AREA	PRESENT	BY FUTURE	PRESENT	BY FUTURE	TYPES OF TREATMENT	
TENT CAMPS No. 1 and 2	1.2	EXPANDED TO LIMIT	12,000		PRE-CHLORINATION, POST- CHLORINATION, CHEMICAL PRECIPITATION, SEPARATE SLUDGE DIGESTION.	
DIVISION TRAINING	2.0	2.67	20,000	26,700	PRE-CHLORINATION, POST- CHLORINATION, PRIMARY SETTLING, SEPARATE HEATED SLUDGE DIGESTION.	
(3) MONTFORD POINT	0,80	1.60	8,000	16,000	PRE-CHLORINATION, POST CHLORINATION, IMHOFF TANK.	
BARRAGE BALLOON BATTALION and AMPHIBIAN BASE	0.18	0.36	1,800	3,600	PRE-CHLORINATION, POST CHLORINATION, IMHOFF TANK.	
RIFLE RANGE	0.36	EXPANDED TO LIMIT	3,600		PRE-CHLORINATION, POST- CHLORINATION, IMHOFF TANK.	
BEACH AREA	0.18	EXPANDED	1,800		PRE-CHLORINATION, POST- CHLORINATION, IMHOFF TANK.	

NOTE :- (1) CAPACITIES ARE COMPUTED ON BASIS OF AVERAGE FLOW OF 100 GALLONS PER CAPITA PER DAY.

(2) BAR SCREENS AND GRIT CHAMBERS PRECEDE ALL TREATMENT AND AT DIVISION TRAINING AREA TWO COMMINUTERS ARE PROVIDED.

(3) 0.18 MILLION GALLONS PER DAY CAPACITY OF THE TEMPORARY WOOD IMHOFF TANK IN THE ORIGINAL PLANT HAS NOT BEEN INCLUDED.

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LIST OF SEPTIC TANKS

AREA	LOCATION	SIZE		SETTLING CAPACITY (GALLONS)	CAPACITY	
PARACHUTE TRAINING	THIRD TOWER	5'8" × 16'-0" × 8'-5"	Deep	3170	181	500'-4"Til
INDUSTRIAL and SUPPLY	GAS & OIL STATION	3'-6" × 9'-0" × 6'-6"	Deep	800	63	350'-4"Til
BARRAGE BALLOON BATTALION and AMPHIBIAN BASE	AMPHIBIAN BASE	6-0" × 18-0" × 8-9"	Deep	4050	216	500'- 6" Til
GLIDER TRAINING BASE	NEAR NEW RIVER	6'-0" × 18'-0" × 8'-9"	Deep	4050	216	500'- 6"Til
RIFLE RANGE	ALONG 300yd LINE (1)	3'6" × 9'0" × 6'6"	Deep	800	63	350 ⁻ -4 ["] Tile
RIFLE RANGE	ALONG BUTTS AVE.	3'6" * 9'0" *6'6	Deep	800	ଌୈ	350'-4"Tt
MONTFORD POINT	DOG KENNELS CAMP KNOX (3)	3-6" × 9-0" × 6-6"	Deep	800	63	400'-4"Ti
MONTFORD POINT	DOG HOSPITAL CAMP KNOX	3'-6" * 9'-0" * 6'-6"	Deep	800	63	400'- 6" Ti

NOTE:- (1) THREE IDENTICAL TANKS INSTALLED. (2) SIX IDENTICAL TANKS INSTALLED. (3) ABANDONED WHEN SEWERAGE SYSTEM WAS PROVIDED FOR MONTFORD POINT AREA.

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CHAPTER

SURT

0-1. Introduction. The work of the same general lines as stated control were extended into many construction surveys made for many are described fully in the follow

0-2. Existing Data.

0-2.01. Maps and other data

0-2.02 Intracoastal Water topography and right-of-way lim N. C.

0-2.03 Tidal Bench Harks, ion T-18, "Tidal Bench Harks, S

0-2.04 Triangulation Stati not shown in existing publication sheets and were furnished by the

0-2.95. Control Surveys, by the 30th Engineers in 1941.

0-2.06. U. S. Marine Cord 1 to 12, inclusive, Grid Zone, reservation: The North Carolin The "A" Grid is indicated by so within the body of the map. May Coordinate stations, bench many these maps were furnished by Co

0-2.07. Soil Survey of pared by U. S. Department of A North Carolina.

9-2.08. Geologic Map of Department of Conservation and

0-2. 09. U. S. Coast and harbor, and intracoastal water

0-2.10. U. S. Coast and Cape Lookout Little River.

CHAPTER O - PART II.

SURVEY DEPARTMENT

ol. Introduction. The work of this department was carried out along the same general lines as stated in Volume II. Horizontal and vertical control were extended into many areas and topographic, hydrographic and construction surveys made for new projects. Various phases of survey work are described fully in the following sections.

0-2. Existing Data.

0-2.01. Maps and other data secured from governmental agencies and filed in the Public Works Record Office are shown in the following list:

0-2.02 Intracoastal Waterway. Strip map showing surveys, monuments, topography and right-of-way lines prepared by U. S. Engineers, Wilmington, H. C.

0-2.03 Tidal Bench Marks. U. S. Coast and Geodetic Survey Publication T-18, "Tidal Bench Marks, State of North Carolina, Jume, 1939".

0-2.04 Triangulation Stations. Supplementary triangulation stations not shown in existing publications. These data are in the form of record sheets and were furnished by the U. S. Coast and Geodetic Survey.

0-2.95. Control Surveys, 30th Engineers. Control surveys executed by the 30th Engineers in 1941.

0-2.06. U. S. Marine Corps Topographic Maps, Camp Lejeune, Sections 1 to 12, inclusive, Grid Zone B, Scale 1:20,000. These maps show the entire reservation: The North Carolina grid is indicated by dashed tick marks. The "A" Grid is indicated by short ticks along the border and small crosses within the body of the map. Latitude and longitude also are indicated. Coordinate stations, bench marks, and picture points for the control of these maps were furnished by Carr and J. E. Greiner Company.

0-2.07. Soil Survey of Onslow County, together with soil map prepared by U. S. Department of Agriculture in cooperation with the State of North Carolina.

6-2.08. Geologic Map of North Carolina, prepared by North Carolina Department of Conservation and Development, 1937.

0-2. 09. U. S. Coast and Geodetic Survey graphic index of coast, harbor, and intracoastal waterway charts, May, 1940.

0-2.10. U. S. Coast and Geodetic Survey index, topographic map No. 13, Cape Lookout Little River. A State of the second state of th

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0-2.11. U. S. Coast and Geodetic Survey, Chart 834 Intracoastal neterway, NewRiver Inlet to Southport, Scale 1:40,000,

0-2.12: U. S. Coast and Geodetic Survey, New River Inlet to Cape Fear, Charge 1235, Scale 1:80,000.

0-2.13. U. S. Coast and Geodetic Survey, Chart T-5192, Air Photo Compilation, Cape Fear River, Campbell Island, Scale 1:20,000.

0-2.14. U. S. Coast and Geodetic Survey, Chart 5043, Air Photo Compilation, Virginia Creek to Queen Inlet, Scale 1:20,000.

0-2.15 U. S. Coast and Geodetic Survey, Chart T-5042, Air Photo Compilation, Queen Inlet to Myrtle Sound, Scale 1:20,000.

0-2.16. U. S. Coast and Geodetic Survey, Chart T-5191, Air Photo Compilation, Cape Fear River, Wilmington and Vicinity, Scale 1:10,000.

0-2.17 Property Maps, 1" = 660', prepared by Boney and Broadfoot, Architects and Engineers.

0-3. Horizontal Controls.

0-3.01. A number of monuments were installed to preserve surveys previously reported in Volume II. New surveys were extended along the perineter of the reservation and monuments installed to preserve the boundary surveys where the lines do not follow water courses or paved roads. Prominent objects were tied in and coordinated, Many Government triangulation stations had not been coordinated on the North Carolina system. These computations were made and the resulting positions are shown herein. Old triangulation stations were recovered and new control established in the Beach Area and along the Intracoastal Waterway. The Anti-tank range was tied in for fire control purposes. New lines of traverse were run in the parts of the reservation not proviously covered andat the present time there is no part that does not have permanent coordinated monuments within a reasonable distance. The coordinate system is described in Volume II. 92 new coordinate stations were listed in Section 0-9 herein. Adddd to the 360 reported in Volume II of the completion report, a total of 452 permanent stations have been listed to provide for future surveys. These stations are listed by quadrangle number and the vicinity in which they are located may be determined readily by consulting the general area map. The exact location may be determined from the descriptions and coordinates given.

0-3.02 Military Grid. By direction, the previous decision to use Grid Zone A for military mapping of the reservation was rescinded and Grid Zone B ande the official basis for military mapping by the U. S. Marine Coprs. The relationship between the North Carolina Grid and Military Grid Zone B, is as follows:

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Triangulation	Geographic		Nil. Grid
Station	Position		Coordinates (yds.)
Duck Crk. 1932	Lat. 34 °35'01.282" N.	N. 307,798.89	N. 1,288,716.19
	Long. 7797'56.046" W.	E. 2,512,004.00	4. 1,371,281.21
Northeast	Lat. 34°43:47.379" N.		N. 1,306,086.0
1933	Long.77°24:04.316"W.		E. 1,360,389.8
Verona	Lat. 34 ⁰ 38'37.376"N.	N. 328,763.30	N. 1,295,358.13
1932	Long. 77 ⁰ 28'42.85" W.	E. 2,457.596.51	E. 1,353.010.65
		- 0	

The military grid north bears approximately 1°07'20" east of the N.C. Grid North.

0-4. Vertical Control. Leveling was extended into various new areas of the reservation. 236 permanent bench marks were listed in Volume II. 118 additional bench marks are listed in the following section of this chapter, making a total of 354 permanent bench marks scattered over the reservation. The bench marks are listed by quadrangle number and their approximate location may be deternined readily by sonsulting the general area map. The exact location then may be determined from the descriptions and by consulting the hard copy record maps. The elevations are referred to mean sea level.

0-5. Topographic Surveys. Topographic surveys were made of the new areas developed during this period by the same general methods described in Volume II.

0-6. Hydrographic Surveys. Hydrographic surveys were made by the same methods described in Volume II. The principal survey was that of New River between Hadnot Point and Montford Point which served as control for dredging and sweeping operations.

Tido gaugos were established at Wallaco Creek Boat Basin and at the Ponton Bridge. Intracoastal Waterway.

0-7. Construction Surveys. Construction surveys for buildings, roads, utilities and other structures were made generally along the same lines described in Volume II.

0-8. Final Surveys: A great deal of work was done securing as-built data for the preparation of as-built drawings and maps, particularly in the outlying areas where transmission and distribution lines had been installed murridly in the early part of the project. Photact reproductions of hard copy maps were made and checked in the field. Missing data was added and the reproductions returned to the office in order that complete data could be plotted on the hard copy record map. As of December 18, 1943, the record maps were substantially complete, there remaining to be located and plotted only the improvements which had not been constructed.

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362,305.64	2,478,809.04
362,527.23	2,479,257.05
362,903.91	2,480,018.62
363,608.69	2,481,443.50
363,217.40	2,483,801.27
355,619.07	2,463,678,22
358,070,06	2,463,475,26
356,864.00	2,463,525,88
354,851.86	2,464,327,21
353,831.52	2,465,381,58
352,568.72	2,469,799,37
350,939,29	2,469,825,58
357,711.10	2,476,999,98
358,437.40	2,477,233,80
357,239.20	2,476,152,92
357,962.34	2,497,352,03
351,476.88	2,499,931.69
341,724.67	2,502,967.21
342,486.57	2,504,081.11
343,371.30	2,502,952.22
342,389.04	2,502,848.55
341,717.50	2,503,219.71
345,120.86	2,501,688.65
346,755.77	2,501,555.62
349,708,24	2,500,633.96
332,311.38	2,497,056.13
338,912.79	2,497,867.88
338,616.77	2,496,656.38
310,634.74	2,466,645.92
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Coord	inates
North	East
292,367.21	2,492,900.38
293,179.98	2,498,099.05
297,720.28	2,504,935.01
292,577.69	2,493,654.78
292,861.72	2,493,062.52
295,498.04	2,496,686.84
292,562.35	2,499,117,46
298,564.10	2,515,623.64
293,255.21	2,509,146.07
297,869.72	2,509,011.74
295,364.40	2,511,727.10
298,716.66	2,512,418,80
299,884.54	2,514,486.04
299,798.22	2,515,306.40
299,715.03	2,516,909.74
299,635.86	2,517,028.32
298,487.49	2,515,682.11
287,080.80	2,485,819.07
281,818,12	2,490,168.79
281,135.60	2,481,025.60
282,176.38	2,490,495,49
285,071.77	2,496,115.55
289,395.18	2,503,683,49
289,443,56	2,500,892.37
285,281.93	2,496,451.25
285,370.48	2,495,404.15
289,482.63	2,503,553.38

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en e	USMC Monument 140. Coordinates: E. 2,477,233.80	N. 358,437.40; 18.39
an a	USIAC Monument 134. Coordinates: E. 2,469,799.37	N. 352,568.72; 18.65
	USMC Monument 135. Coordinates: E. 2,469,825.58	N. 350,939.29; 21.55
 A state of the s	USMC Monument 131. Coordinates: E. 2,463,525.88	N. 356,864,00; 23.12
	USMC Monument 133. Coordinates: E. 2,465,381.58	N. 353,831.52; 23.63
 The second sec second second /li>	USMC Monument 130. Coordinates: E. 2,463,475.26	N. 358,070.06; 24.14
and a second s Second second s	USMC Monument 132. Coordinates: E. 2,464,327.21	N. 354,851.86; 24.44
	USMC Monument 125. Coordinates: E. 2,463,678.22	N. 355,619.07; - 27.36
	USMC Monument 91**: Coordinates E. 2,476,754.66	: N. 358,591.70; 17.80**
	USIC Monument 92. Coordinates: E. 2,477,521.27	N. 359,298.68; 14.49
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	USMC Monument 73. Coordinates: E. 2,488,002.73	N. 351,461,56; 4.57
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					USMC Monument 127. E. 2,501,555.62	Coordinates: 1	N. 346,7
as. 1					Monument - Coordine E. 2,502,967.21	ites: N. 341,72	24.67;

	Elevation
,476.88;	27.55
72.85;	38.82
179.82;	40,94
19.85;	39.01
162.44;	41.00
878.45;	41.42
:	35,25
294.79;	38.25
697.49;	39.92
72.29;	40.86
,120,86;	23.56
,708,24;	23.59
,371,30;	23.74
,389,04;	27.40
	27.59
, 755 .77;	28:17
	28.37

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	eco.transfilla		angle.	Description	vation			
	(1711年7月)、1911年1月日(1911年1月)、19日本2月日(1911年1日) 日本19月1日(1911年1日)、1911年1日(1911年1日)、1911年1日(1911年1日)、1911年1日)、1911年1日(1911年1日)、1911年1日(1911年1日)、1911年1日)、1911年1日(1	- Car	Quadrangle 140		91.93			
ster and the	10.200 .000 in a case and and the most of the second o		142	E. 2,529,667,89	8.30			
	ಸಂಪರ್ಧವರ್ ನಿರ್ದಾರಣ ಸಂಪರ್ಧವರ್ ಸಂಪರ್ಧವರ್ ನಿರ್ದಾಮಿಗಳು ಸಂಪರ್ಧವರ್ ಎ ಸ್ಥಾನದಲ್ಲಿ ಹಿಕ್ಕಿಸಿಗಳು			E. 2,529,092.37	4.46			
•	e statistis en			E. 2,529.094.34	0.14			
4. . 4.2	a de la constant en la constant de l La constant de la cons		157	USMC Monument 34. Coordinates: N. 337,415.50; E. 2,459,634.19	8.35			
	and a state of the s The state of the state			USMC Monument 35. Coordinates: N. 337,354.44; E. 2,459,486.46	39.81			
	i estiliari e statistica e statis			USMC Monument 36. Coordinates: N. 337,328.28; E. 2,459,341.78	42.31			
74 c. 1	1999 - Mary Barray Carlos and Sanata and Alberta and Alberta and Alberta and Alberta and Alberta and Alberta a			USIMC Monument 37. Coordinates: N. 337,335.68; E. 2,459,265.09	43.51			
	and and a second se Second second			E. 2,459,841.23	51,68			
	ter inner se de la service br>La service de la service de			E. 2,460,213.68	57.43			
	1994, 54, 54, 54, 55, 55, 55, 55, 55, 55, 5		159	Bench Mark 1 (U.S.E.) (1931) established by the United States Engineers, is a nail in a cypress tree southwest of Triangulation station "Town" (1933). The latter is set in a concrete monument on Town Deint which is 3 miles Northeast of Verona, Eleva-				
				tion: 2.57 feet above low-water datum. Bench Mark 3 (1933) is a standard desk set in the top of a concrete monument 6" x 6" buried in the ground 36" and having a base 12" x 12". The top of the monument projects about 4" above the surface of the ground. The Bench Mark is approximately 230 feet southwest of Bench Mark 2 and is located at the foot of two 2' diameter live pine trees and 26' south- west of the end of the fish net racks. The Bench				
				of two 2' diameter live pine trees and 20 bound				

		ant.	adrangle	Description	evation
		-	159	Bench Mark 2 (1933) is a standard desk set in the top of a concrete monument 6" x 6" buried in the ground 36" and having a base 12" x 12". The top of the monument projects 4" above the ground. The Bench Mark is located about 262" southwest of Triangulation station "Town 1933" and is 49' north of fish net racks and surrounded by a cluster of live oak trees. Elevations: 7.92 feet above low- water datum.	8.14
				Monument - Coordinates: N. 332,311.38; E. 2,497,056.13	1,89
				USIMC Monument 110. Coordinates: N. 338,912,79; E. 2,497,867.88	21.14
		I		USMC Monument 111. Coordinates: N. 338,616.77; E. 2,496,656.38	26,98
			162	USMC Monument 56. Coordinates: N. 338,837.43; E. 2,529,889.56	32.91
			*:	*USMC Monument 59. Coordinates: N. 334,713.09; E. 2,533,313.47	**24.18
	All and an and a series of the		*	*USMC Monument 57. Coordinates: N. 334,573.88; E. 2,532,187.11 *	**32,67
				USMC Monument 58. Coordinates: N. 334,267.34; E. 2,532,403.51	**38,72
			*	*Stronger value obtained by new levelling. This Elevation supersedes that given in Volume II	
			197	USMC Monument 1. Coordinates: N. 319,878.08; E. 2,456,100.07	51,78
and the second second				USMC Monument 2. Coordinates: N. 318,013.73; E. 2,456,068.46	72.18
			198	USMC Monument 150. Coordinates: N. 310,726.54; E. 2,468,868.36	27.10
				USMC Monument 149. Coordinates: N. 310,712.92; E. 2,468,001.28	30.46
				USMC Monument 148. Coordinates: N. 310,699.19; E. 2,467,127.56	40.16

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TP	1									
						Quadrangle	• 1	Description		Elevation
			1 ×			198	USMC Monument 101 E. 2,466,645.92	. Coordinates: N	310;634/74;	49.61
					•	199	for triangulation rock along the shi shore of the rive: N. E. from the tr: at the W. edge of about 1 mile nort	station "Hines (1 ore about 33' east r from the end of iangulation static dock. The Bench hward of Gillette ; 0.85 feet above	the dock, and 175 on which is located Mark is located and across the e low-water datum.	1
				أ. يتعديد يتنافر المحمد المنتخ عديد يتنافر المحمد الم المحمد المحمد المحم المحمد المحمد المحم المحمد المحمد المحم المحمد المحمد المحم المحمد المحمد المحم المحمد المحمد الم المحمد المحمد المحم المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد ال			Survey). It is 1	ineers, is a nail of the next to the river, and northwe "Hines (1933)" (U. ocated about 1 mil ss the river. NOT is a poor Bench N	in the root of a ne most westerly estward of trian- .S. Coast of Geode le northward of TE: It was report Mark.	
		-	23 . 8	and a second s Second second		201	*USMC Monument 75, E. 2,517,199.87	Coordinates: N.	311,741.16;	*26,66
							*Monument Reset. in Volume II.	This Elovation su	persedes that give	n
			11 1 13	a a standard and a second a s		217	USMC Monument 4. E. 2,460,508.33	Coordinates: N.	308,576.63;	57.50
			· · · · · ·	te le bere de le contraction de la contraction			USMC Monument 3. E. 2,457,757.69	Coordinates: N.	308,905.46;	57,61
				and a second and a second and a second br>A second a s A second a s		218	USIMC Monument 16. E. 2,469,161.29	Coordinates: N.	, 302,408.84;	7.79
			Y	a set and all an another set of the set of the	/		USMC Monument 17, E. 2,470,185.00	Coordinates: N.	. 303,329.37;	9.21
				 Additional and the second s second second secon second second sec			USMC Monument 18. E. 2,470,695.85	Coordinates: N.	. 303,349.44;	11.56
				a de la companya de l Partemento de la companya de la comp			USMC Monument 15. E. 2,468,882.70	Coordinates: N	, 302,202.51;	11.94
							USMC Monument 19. E. 2,471,581.83	Coordinates: N.	. 303,390.42;	27,32
			a dixi	the state of the s						
	ALC: NO		1 · 2 · • · · · · · · · · · · · · · · · ·	tan an a				- 1082 -		
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and the second second		· January	Quadrangle	Description	Elevation
and the second	n an an an Anna an Anna 1996 - Anna Anna Anna Anna Anna Anna Anna An		218	USMC Monument 25. Coordinates: N. 302,082.5 E. 2,467,738.20	8; 28.11
		A.		USMC Monument 21. Coordinates: N. 303,496.2 E. 2,473,761.70	1; 28.20
•1	An Charles and Anna Anna Anna Anna Anna Anna Anna	2.2.5		U.S.N. Monument 7. Coordinates: N. 309,079. E. 2,468,792.24	90; 28,86
1231 ver	(1) A second se Second second seco			USIM Monument 22. Coordinates: N. 302,730.8 E. 2,474,527.19	2; 29,72
1	(20) A state of the second s Second second seco			U.S.N. Monument 6. Coordinates: N. 308,138. E. 2,468,752.78	29; 29.92
	en verste der Kallen ander ander eine sternen verste der einen verste der einen sonen verste der einen verste s Neuersche aus der Kallen verste der eine sterne verste der eine sterne verste der eine sterne verste der eine so			USINC Monument 6. Coordinates: N. 305,457.30 E. 2,463,739.88	; 33,00
n de la companya de l Norma de la companya d Norma de la companya d	and fight and an ann an Anna an Anna Anna Anna An			USMC Monument 20. Coordinates: N. 303,456.0 E. 2,472,975.96	0; 33.06
be not a				USIMC Monument 24. Coordinates: N, 301,402.2 E. 2,467,204.87	34.41
:0.1	 A statistical statisti Statistical statistical statistical statistical statistical statistical statistical statistical statistical statisticae statis			USMC Monument 14, Coordinates: N. 300,368,9 E. 2,467,409.10	5; 39.43
				USMC Monument 11. Coordinates: N. 300,483.3 E. 2,466,359.86	8; 49 . 75
				USIMC Monument 102. Coordinates: N. 309,686.8 E. 2,466,660.93	7;
	stand a second as a second	N		USMC Monument 104. Coordinates: N. 308,217, E. 2,466,684.20	66; 51.49
				USMC Monument 10. Coordinates: N. 301,201.0 E. 2,465,953.25	2;
				USMC Monument 9, Coordinates: N. 302,075.93 E, 2,465,164.46	; 53.99
	and the second			USMC Monument 103. Coordinates: N. 308,817. E. 2,466,674.70	31 55.65
	 A state of the sta			USMC Monument 8. Coordinate: N. 303,522.88; E. 2,464,686.30	58.73
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	E. 2,464,422.51	
	Bonch Mark 3 (1933) is a standard to for triangulation station "Ferry (E terra cotta pipe filled with cement below the surface of the ground. A concrete is placed around the pipe 6" above surface of the ground, and 295' northeastward of Bench Mark 2. foet above low-water datum. Coordinates: N. 305,110.21; E. 2	co ar so at is
	Bench Mark 1 (U.S.E.), established States Engineers, is a nail in crot live oak trees located 157' west of forry and directly across road from station. Elevation: 4.07 feet abo datum	ch en s:
	Bench Mark 2 (1933) is a standard of "1933", set in the top of a concret x 6", buried 36" and having a base top of the monument projecting about surface of the ground. It is locat of wharf, 90' downstream from forry an 18" pine tree and 249' northeast Mark 1. Elevation: 5.39 feet about datum.	te 12 1t ted 7,
	USINC Monument 146, Coordinates: 1 E. 2,481,777.64	N.
	USIMC Monument 147. Coordinates: E. 2,481,361.36	N.
1	"U.S.N." Monument 40. Coordinates: E. 2,518,298.99	N.
	U.S.N. Monument 3. Coordinates: E. 2,519,096.98	N.
	USMC Monument 141. Coordinates: E. 2,520,188.72	N.
	USMC Monument 143, Coordinates: E. 2,521,753.67	N.
	USIMC Monument 142. Coordinates: E. 2,521,085.22	N.

Description

Quadranglo

218

21

Elevation

USMC Monument 7. Coordinates: N. 304,370.43;

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iangulation disk (0.)", set in a 6" and extending 36" square block of at top and projects is located about Elevation: 4.03

482,583.89 4.42

by the United sh of twin end of wharf or small filling ve low-water

esk, stamped e monument 6" 12" x 12", the t 4" above the ed 92' E. of end ; 13' south of ward of Bench re low-water 5.78

I. 303,754.13; 16.92 I. 303,404.42; 19.67

. 301,061.17; 6,47

305,807.82;
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N. 302,698.30;
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N. 304,054.09;

N. 303,474.96; 8.67

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		guadrangle	Description
		221	USMC Monument 144. Coordinates: N: E. 2,522,325.29
10日本 11日本(11日) - 東京 - 中国(11日) 「白山田山」(日本)			USMC Monument 145: Coordinates: Ni E. 2,522,991.89
			"U.S.N." Monument 5. Coordinates: N E. 2;518,172:46
in 1997, radio 1 1997, radio 1997, radio 1997 1997, radio 1997, radio 1997	are .		"U.S.N." Monument 4. Coordinates: N E. 2,518,637.06
ப்படைத்தின் இலையில் பில்லியி நிற்று பிருகால் நிறியில் இறில் இறிப்பில் பியில் குள்தாது பிடிப்பில் பிருகியது பிற்று பிதியில் நிறைகளில் திரிப்பில் பிறுகியது	213	238	USMC Monument 13. Coordinates: N. E. 2,467,077.77
end ge de Berner oan de Berner Ber Berner Berner br>Berner Berner			USMC Monument 12. Coordinates: N. E. 2,466,601.64
an ann an Arrainn an Ar Arrainn an Arrainn an Ar	x	240	Bench Mark 3 (1933) is a standard dis the top of a 4" tile which extends in about 2' and is slightly above the su
میکند.دینده میلاند میلود میلود میلود میلود میلود در این کنی کی کی کی میلود میلود میلود میلود میلود میلود میلود میلود میلود کی میلود میلود میلود میلود میلود کی میلود میلود میلود میلود میلود br>میلود و میلود م	•		mark is approximately 100 yds. fr road that leads to the main road, and north of the dock at Peru close to th of a fisherman's shack. Elevations: low-water datum.
n an an an Anna br>Anna an Anna an Anna an Anna an	-		Bench Mark 1 (1933) is a standard dis in the top of a 4" tile, which extends surface of the ground about 2 feet ar
ಿವರ್ಷವಾಗಿದ್ದು ಭಾಗತ್ರದ ಹಿಡಿದಾಗಿದ್ದು ಬರುಗಳು ಮತ್ತು ಕ್ರಾಮಿಸಿಕಾರಿಗೆ ಮಾಡಿದ್ದಾರೆ. ಗಾರ್ವರ್ಷ್ ಅವರ್ಷಗಳ ಸಂಭಾಗವಾಗಿ ಮತ್ತು ಇದು ಸಂಭಾನ ಮತ್ತು ಸಂಭಾಗವಾಗಿ ಮತ್ತು ಸಂಭಾಗವಾಗಿ ಮತ್ತು ಕ್ರಾಮಿಸಿದ್ದಾರೆ. ಗ್ರಾ. ಪ್ರತಿ ಸಂಭಾಗವಾಗಿ ಮತ್ತು ಸಂಭಾಗವರು ಸಂಭಾಗವಾಗಿ ಮತ್ತು ಸಂಭಾಗವಾಗಿ ಮತ್ತು ಸಂಭಾಗವಾಗಿ ಮತ್ತು ಸೇರೆಗಳು ಮತ್ತು ಸೇರೆಗಳು ಸಂಭ ಸ್ಥಾನ ಸಂಭಾಗವಾಗಿ ಮತ್ತು ಸಂಭಾಗವಾಗಿ ಪ್ರಾಥಾಗಿಗೆ ಮತ್ತು ಆಗ್ರೆಸ್ ಮತ್ತು ಸಂಭಾಗವಾಗಿ ಮತ್ತು ಸೇರಿಗಳು ಮತ್ತು ಸೇರೆಗಳು ಮತ್ತು ಸೇರೆಗ	1		ly above the surface. The bench mark about 100 yards south of the dock at odge of a slight bluff and on the eas path from the dock at Peru to the hou
ಮುಂದು ಸ್ಪೇಲ್ಗಳಲ್ಲಿ ಸೇವಿ ಸಂಕರ್ಷ ಕೇಳಿದ್ದ ಸ್ಪಿಲ್ಲಿ ಸ್ಪಿಲ್ ಸಿಲ್ಲಿ ಸಿಲ್ಲಿ ಸಿಲ್ಲಿ ಸಿಲ್ಲಿ ಸಿಲ್ಲಿ ಸಿಲ್ಲಿ ಸಿಲ್ಲಿ ಸಿಲ್ಲಿ ಸಿಲ್ಲಿ ಸಿಲ್ಲಿ ಸಿಲ್ಲಿ ಸಿಲ್ಲಿ ಸಿಲ್ಲಿ ಸಿಲ್ಲಿ ಸಿಲ್ಲಿ ಸಿಲ್ಲಿ ಸಿಲ್ಲಿ ಸಿಲ್ಲಿ ಸಿಲ್ಲ ಸಿಲ್ಲ ಸಿಲ್ಲ ಸಿಲ್ಲ ಸಿಲ್ಲ ಸಿಲ್ಲ ಸಿಲ್ಲ ಸಿಲ್ಲ ಸಿಲ್ಲ ಸಿಲ		•	bluff, and about 25 yards from the hi line. Elevation: 9.86 feet above lo datum.
and a second of the second of		241	Sea 1914 Coordinates: N. 297,114,52 E. 2,513,782.46
 A. A. W. A. A. M. A. A. M. A. A. M. M. A. M. A. M. /li>			Vim 1932 Coordinates: N. 295,635.24 E. 2,511,600.67
tiles differi et			Tie 1914 Coordinates: N. 298,564.10 E. 2,515,623.64
North Anna an Anna an Anna an Anna Anna Anna			Passet 1932 Coordinates: N. 293,173 E. 2,509,046.21
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Elevation

304,549,32; 8.77 305,126.85; 9.29 N. 306,993.40; 12.43 N. 306,397.61; 14.16 299,835.48; 50,80 299,241,58; 56.36 sic cemented in n the ground In the ground surface. The bench from the dirt ad about 100 yds the south face : 2.98 feet above 2.78 sk cemonted s below the nd is slightk is located Peru on the st side of a uses on the igh water-ow-water 9.66 52; 20.33 24; 20.50 10; 20.75 73.64; 26.85

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Quadrangle Description Amos 1932 Coordinates: N. 289,482.63; 260 E. 2,503,533.38 1-11: Soil Borings. Approximately 400 new soil borings were taken in various areas of the reservation. The logs of these borings are on file

in the Public Works Record Office.

0-12. Records Filed With Public Works Officer. All notes, computations, working drawings, government publications, charts and other data of the survey department have been filed in the Public Works Record Office.

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CHAPTER P - PART II

RECORD MAPPING

P-1. Introduction. Record mapping was carried out substantially as described in Volume II.

P-2. 1"= 500' Scale Maps. The program of record mapping originally contemplated the proparation of linen tracings of all maps and additional reproductions showing main utility layouts. A number of the linen tracings were made but due to the loss of trained personnel to the armed services and the shortage of help in design departments, we were directed to concontrate our efforts on the hard copy record maps. The installation of Photact equipment made it possible to secure linen tracings by mechanical methods directly from an opaque surface and at a greatly decreased expenditure of man-hours. Photact reproductions of all hard copy record maps were made and filed with the Public Works Record Uffice, and a duplicate set prepared for the Bureau of Yards and Docks.

P-3. Tabulation of 1" = 500' Hard Copy Record Maps.

Quad. No.	Yards & Docks
97-117	267570
98-118	267571
99-119	267572
100-120	267573
101-121	267574
102-122	267575
137-157	267576
138-158	267577
139-159	267578
140-160	267579
141-161	267580
142-162	267581
177-197	267582
178-198	267583
179-199	267584
180-200	267585
181-201	267586
182-202	267587
217-237	267588
218-238	267589
219-239	267590
220-240	267591
221-241	267592

No.

Total 23

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 P-4. 1" = 50' Scale Maps. These maps were completed along the same lines described in Volume II. As in the case of the 1" - 500' scale maps pre-viously described, it was found impossible to secure sufficient personnel to trace these drawings. Therefore, we were directed to concentrate our offorts on the basic 1" = 50' hard copy drawings and all structures under construction as of December 18, 1943, have been shown thereon. Photact tracings have been prepared and filed with the Public Works record office. and a duplicate set prepared for the Bureau of Yards and Docks.

p.5. Tabulation of 1" = 50' Scale Hard Copy Record Maps.

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the set of	n an star an an an an star an	· · · · · · · · · · · · · · · · · · ·		P-3 & P-4		267403
				Q-3 & Q-4		267404
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				U-1 & U-2		267406
	· Dani byo	THE REPORT OF A		U-3 & U-4		267407
				Y-1 & Y-2		267408
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		1.12		R-3 & R-4		267415
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	to the Walt			V-1 & V-2		267419
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				J-1 & J-2		267429
		and the second		J-3 & J-4		267430
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				R-3 & R-4		267432
				S-3 & S-4		267433
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	40.33			W-3 & W-4		267435
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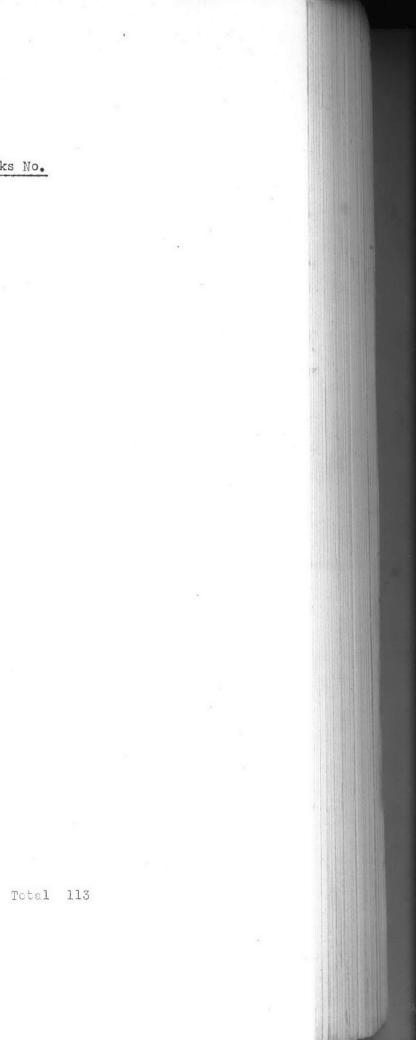
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	Star .			1		218	B-1 & B-2		267527
	Sec. St. La			san je te se			B-3 & B-4		267528
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	112.11.12			en an			00001		201020
	0. 110			1 - 14 - 16 - 17		219	D-1 & D-2		267532
	1 22 2 20 2						E-1 & E-2		267533
	10. 81.						E-3 & E-4		267534
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			CONTENTS
		Section Q-1	Introduction
2. ⁶ . 7.			
		Utilities	& Ceneral Drawings
		Q-2	Roads, Streets, Railroads and Bridges
	1	Q-3	Site Plans
		Q-4	Sewers
1. 1.		Q-5 Q-6	Sewage Structures Water
		Q-7	Water Structures
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		Q-9	Propane Gas System
		Q-10 Q-11	
N 3.2			Gasoline and Oil Storage and Distribu
alba a		Q-13	Steam Distribution
		Drawings of	f Bldgs. (Including Mechanical & Electr
		AT OUT TILE D OU	Diego. (Inorading Moonanitori & Diegor
			Division Training Area
			Division Activities Camp Troops Activities
		0-17	Supply and Industrial Area
		Q-18	Naval Hospital
		2-13	Residential Area Rifle Range
			Barrage Balloon & Amphibian Base
		Q-22	Parachute Training Area
			Airport
			White Cemetery Tent Camps No. 1 and No. 2
		Q-26	Montford Point Area (Including Camp. Ki
	5 X	Q-27	Peterfield Point Camp
			Tank Battalion Camp Midway Park Residential Area
		Q - 30	Nockup Area
		Q-31	Miscellaneous
			Marine Corps Women's Reserve Beach Area (Signal School Activities)
		4-00	Longer more (orthan pondot rectations)

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- 1091 -

Al. Introduction. As in the first two volumes, lists of drawings have heen omitted from the preceding chapters of this volume where ver practicable. listed hereinafter are the drawings completed during the period October 1, 1942 - December 18, 1943. The tracings have been turned over to the Public works Officer indexed so that a desired drawing may be found readily if either the Yards and Docks number, the temporary drawing number, the accounting project number, the subject or the area involved is known.

Graphical records of load tests made by the U. S. Navy are not included.

Tracings reported in Chapter Q. Vol. II -Tracings prepared Oct. 1, 1943-Dec. 18, 1943 Tracings of Studies and Abandoned Projects filed with Public Works Officer but not listed herein -

Total No. of Tracings Prepared 4,516

Q-2.	Roads, Streets, Railroads and Bridges					
	Q-2.01	• Division	Training Are	ea		
Dwg .	No. Y	& D No.	Proj. No.			
2230	2	29300	1509	Bus Termi: Parking a		
	Q-2.02	Camp Tro	ops Activitie	S		
2227	2	29327		Plan and Coal Stor		
1308	3	04692	1513	Red Cross Grading,		
	Q-2.03	. Supply an	nd Industria.	l Area		
2228	2	29312	1308-10	Colored L Profile o Extension		
2229	2	29318	. ×	Plan Show Drawing S Y&D No. 1		
	Q-2.04	. Naval Ho	spital			

2228	229312	1308-10	Colored La
			Profile of
			Extension
2229	229318		Plan Showi
			Drawing Su
			Y&D No. 16

Naval Hospital

None

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- 1092 -

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Title

inal. Details of Walks, Drives, and Drainage

Profile of Drive to School and s Building Site and Detail, Roads Sewer and Water Plan

abor Battalion. Plan and of Cedar and Birch Streets and Lewis Road with Walk Plan ving Drainage Layout (This Supersedes M.B. Dwg. No. 244, 61924)

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Dwg. No. Y & D No. Proj. No.

Q-2.05. Residential Area

None

Q-2.06. Rifle Range

3192

248256 1900-16 Plan and Profile G. W. Carver Street 2223 and Booker T. Washington Blvd.

Q-2.07. Barrage Balloon and Amphibian Base

None

Q-2.08. Parachute Training Area

None

Q-2.09. Airport Incomplete - Construction Deferred 2231 229376 2200-16 Plan and Profile Curtis Road Extension. Taxiway, Mooring Circles, Typical Sections

Q-2.10. Tent Camps No. 1 and No. 2 Incomplete - Construction Deferred

2200

TC 404 139 Plan of Drive and Walk at Water Treatment Plant

Q-2.11. Montford Point Area (Including Camp Knox) MP 59 229471 501-1 Montford Point Camp No. 2. Plan and Profile Coolidge, Taft, Hoover, Harding and Company Streets MP 58. 229470 501-1 Montford Point Camp No. 2. Plan and Profile Wilson Drive Typical Section MP 102 248281 1100-16 Montford Point Camp No. 2A. Plan and Profile Hayes Street and Harding-Typical Section of Company Street IP 123 248282 1101-16 Montford Point Camp No. 3. Plan and Profile Harlem Drive Typical Section

- 1093 -

Title (Cont'd)

Mooring Out Circle, Anchors and Manholes

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	DWE .	No.	Y &	D No.	Pro	j. No	
	IP 12	:6	2482	283	110	1-16	Montford Point Cam Profile Rochester
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C. C					None	Э	х х х
		Q-2.1	3.	Tank Ba	ttalio	on Camp	a
					None	9	
		Q-2.1	4.	Midway	Park H	lesident	ial Area
					None	9	
		Q-2.1	5.	Marine	Corps	Women's	Reserve
	2224		2292	93	1200)-16	Plan, Profile and Brewer Avenue
	2225 2226		2292 2292				Plan and Profile W Plan and Profile M
1.1.4		Q-2.1	6.	Beach A	rea		
				S.	None	9	
		Q-2.1	7.	Miscell	aneous	-	
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	392		1620	66			Site Plan in Vicin Facilities and Cen (This Dwg. Superse No. 161992)

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Title (Cont'd)

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Typical Section-Lucy

Virginia Dare Drive Molly Pitcher Drive

nity of Recreational atral Heating Plant edes MB No. 346, Y&D

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		mg · 1	No. Y & D No.	Proj. No.	
		599	162067		Site Plan Regimer Dwg. Supersedes I
		1305	287880	1510	161983) Site and Detail 1
		1306	287879	1510	Pool - Regimenta Site and Detail M Pool - Regimenta
			4 		
			Q-3.02; Camp T:	roop Activiti	es
		397	162074	1500	Site Plan School Point Road
		1303	304692	1513	Site Plan Area N Drive and Northea Red Cross Bldg.
		1000	Q-3.03. Supply		Red Cross Bldg. Grading, Water an
		703	162065	108-3	
		391 395	162075	100-0	Supply and Indus Site Plan Supply Ash Street to Sn
		396	162073		Site Plan Supply (This Dwg. Super
		1300	162078		No. 161986) Site Plan for Co
			Q-3.04. Naval	Hospital	
				None	
			Q-3.05. Reside	ntial Area	
		390 1307	162064	234 - 1 1510	Radar Facilities Site and Detail
		1307	287908	1601	Pool, Officers' Site and Detail H Swimming Pool,
			Q-3.06. Rifle	Range	0
		393	162067		Rifle Range Area Troops
			Q-3.07. Barrag	e Balloon and	l Amphibian Base
		1309	304700	2400	Bachelor Officer Detail Plan
		-		-	1095 -
	All			-	

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nental Area No. 3 (This MB No. 303, Y & D No.

Plan Showing Swimming tal Area No. 5 l Flan Showing Swimming tal Area No. 2

ol Building, Paradise

North of Virginia Dare heast of Service Road . Site and Details, Roads, and Sewage

ustrial Area - Walk Flan ly and Industrial Area, Sneads Ferry Road ly and Industrial Area ersedes MB No. 306 Y & D

Colored Labor Battalion

es - Area No. 2 Site Plan 1 Plan Showing Swimming s' Quarters Area 1 Plan, Paradise Point

ea, Site Plan for Colored

ers' Quarters Site and

TWE: No. Y & D No. Proj. No. (Contid) Title Q-3.08. Parachute Training Area None Q-3.09. Airport Incomplete - Construction Deferred Site Plan Lighter-Than-Air Facilities 162079 1301 Q-3.10. Tent Camp No. 1 None Q-3.11. Tent Camp No. 2 None Q-3.12. Montford Point Area (Including Camp Knox) IP 54 162062 Numbering Plan Montford Point Camps No. 1 and No. 2 MP 55 162063 Site Plan Montford Point Camp No. 2 MP 109 162068 Site Plan Montford Point Camp No. 3 162070 CCC 10 Camp Knox - Site Plan Block "E" 287878 MP 292 1103 Site and Detail Plan of Swimming Pool at Montford Point Q-3.13. Peterfield Point Camp None

Q-3.14. Tank Battalion Camp

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None

Q-3.15. Hidway Park Residential Area

None

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	nwe .	No. Y & D No.	Proj. No.	Ti
	5.0	Q-3.16. Marine		's Reserve
· · · · · · · · · · · · · · · · · · ·	394 398	162071 162076	1200-17	Site Plan Marine Co Grading and Walk Pl Women's Reserve
		Q-3.17. Beach	Area	
	1302 130 4	287927	2302 2302	Signal School Facil Grading and Walk Pl Facilities
		Q-3.18. Miscel	llaneous	
		Q-3.10, MISCE.	LIAIICOUS	an an all mar ann an an an a
	3133			R.E.A. Power Site of Showing Property Li
	Q-4.	Sewers		
		Q-4.01. Divis:	ion Training	Area
			n de la fande de la companya en la constructión per la cale o de la constru	and the second se
	1517	287872	1510	Sewer and Water Pla Regimental Area No.
	1518	287873	1510	Sewer and Water Pla Regimental Area No.
		Q-4.02. Camp	Troop Activit	ias
· · ·	1 1	det of oanp	n ann an Ann	
	1421	288080	1500-14	Grade and High Scho Sewers
	1308	304692	1513	Red Cross Building Crading, Sewer and
	1			
		Q-4:03. Suppl	y and Industr	ial Area
	1420	288081	1308-5	Labor Battalion, Su Area-Sewers
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		Q-4.04. Naval	a and name a support of a summing stated	
			None	
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Title (Cont'd)

rine CorpsWomen's Reserve Walk Plan Marine Corps rve

l Facilities - Site Plan Walk Plan Signal School

Site on Northeast Creek erty Lines and Right Of Way

ter Plans, Swimming Pool rea No. 5 ter Plans, Swimming Pool rea No. 2

gh School, Paradise Point,

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ion, Supply and Industria!

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			1.11.14.15 • 10	т. 1919 г. 1919 г. – С.		1416	2880	k retnis Angelsk sin der det - opere -	1900-14	Rifle Range Area Semers
	andri Anno 1995 - Anna Anna Anna Anna Anna Anna Anna Anna	anna 1841 - 18 1923 - 1893 - 18 1928 - 1893 - 1893				Q	4.07.	Barrage	Balloon and	Amphibian Base
				i. Artik					None	
		terrañ ereñ : arriter : a si			-	Q	1.08.	Parachu	te Training None	Area
				ange.		Q-4	£.09.	Airport		
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1						Q-4	.11. 1	ent Car	mp No. 2	
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Title (Cont'd)

2, Sewers Swimming Pool Water and

ea, Colored Troops Camp

r Facilities - Sewers

Kn'ox)

Camp No. 2 - Sewers Camp No. 2 - Trunk Sewers Camp No. 2A - White Camp No. 3 - Sewers Camp No. 3 - Sewers Camp No. 3 - Sewer

and the second sec					Dwg . No.	Y & D No.	Proj. No.	Ti
		a fa sa contrat			MP 300	287877	1103	Sewer and Water Pla
	e e e e e e e e e e e e e e e e e e e			• <u></u>	000 9	162318	236	Swimming Pool Camp Knox - Dog Tra
			. C . S		CCC 19	288086	1102-14	Camp Knox - Block H Profiles
	an an an ann an Arman an Arman An Arman an Arman an Arman Arman		**	·	CCC 20	288087	1102-14	Camp Knox - Block A
*					CCC 21	288088	1102-14	Plans Camp Knox - Block
		- 	× 4.					Profiles
		s a fin as a th			Q-4	.13. Peterf	ield Point Car	np
	a na star yn ar ar ar ar ar Ar ar	$(1,1) = (1,1) \prod_{i=1}^{n} (1,1) \cdots (n,1) \prod_{i=1}^{n} (1,1) \cdots (1,1) \prod_$		14			None	
					0-4	14 Tent B	attalion Camp	
	en e	n la Romana	1	x .			None	
		$M_{\rm e} < 1$						
					Q-4	.15. Midway	Park Residen	tial Area
		an a					None	
					Q-4	.16. Marine	Corps Women'	s Reserve
	$\sim 1 x$	je. Postava	a si a tama s		1419	288089	1200-14	U.S.M.C. Women's Re
		174-222 ×		in sa				
						.17. Beach	s denderson s	
			· · · · ·		1521 1522	287941 287973	2302-14 2302	Sewer and Water Ple Sewer and Water - N
			• 2 2 • 2 ***		Q-4	.18. <u>Miscell</u>	laneous	
		a to be the second and the second					None	
	a sa aisi				Q-5. Sew	age Structure	es	
		anana ar an	6 ²¹ 1.4 ¹ 1.4				on Training An	°ea.
e na segura. Tarang tarang	na anti-arrite a standard da La analisador de servici			i dest		In comp.	lete - Constru	action Deferred
n an an an Arthread an Arth Arthread an Arthread an Arth			2 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -		1409		229	Addition to Sewage General Plan
					-			
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Title (Cont'd)

an - Montford Point

caining Area - Sewer E - Sewer Plans and

A, B, C & D - Sewer

A, B, C & D - Sewer

eserve Area - Sewers

an Miscellaneous Details

Treatment Plant,

	DWE .	No. Y &	D No.	Proj. No.	
in the Bar	1410			229	Addition to Sewage
	1411			229	Aeration Tanks, P Addition to Sewag Aeration Tanks, P
a	1412			229	Structural Details Addition to Sewag Final Settling Tar
	1413	×		229	ral Details Addition to Sewag Piping Details for Pumps, Details of
	1414			229	Chamber Addition to Sewage Piping Details, S No. 4, Miscellane
		Q-5.02.	Camp T	roop: Activi	ties
	1422	288	111	1500-14	Paradise Point Ros Station, Station 1
-8	1423	288	112	1500-14	Piping Details, L Paradise Point Roy Station, Manhole 1 Details
	1424	288	113	1500-14	Paradise Point Ro
	1425	288	114	1500-14	Station, Reinforc Paradise Point Ros
- Ke	3786	288	115	1500-14	Station, Reinforc Paradise Point Ro Station, Electric
		Q-5.03.	Supply	and Industr	ial Area
1				None	
		Q-5.04.	Naval	Hospital	
				None	
	-	Q-5.05.	Reside	ntial Area	
				None	

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Title (Cont'd)

age Treatment Plant, Piping Details age Treatment Plant, Pump Pit, Piping and ils

age Treatment Plant, Tanks, Piping and Structum

age Treatment Plant, for Blowers and Sludge of Return Sludge-Division

age Treatment Plant, Sludge Digestion Tank neous Details

Road Sewage Pumping on No. 13 Structural and Layout and Location Plan Road Sewage Pumping te No. 849, Miscellaneous

Road Sewage Pumping orcing Details Road Sewage Pumping orcing Details, Bar Lists Road Sewage Pumping rical Layout

www.No.	Y & D No.	Proj. No.	
	5.06. Rifle H		
1417	288116	1900-14	Rifle Range Pumping Sta
1418	288117	1900+14	Layout Plan Rifle Range Pumping Sta
3771	288118	1900-14	Details, Lo Rifle Range Pumping Sta
Q-	-5.07. Barrag	e Balloon and	Amphibian Ba
		None	
Q.	-5.08. Parach	ute Training	Area
	•	None	
Q	-5.09. <u>Airpor</u>	<u>t</u>	
		None	
କ	-5.10. Tent	Camp No. 1	
		None	
¢	2-5.11. Tent	Camp No. 2	
· · ·		None	
(2-5.12. Montf	ord Point Are	eas (Including
NP 87	248248	501-2	Montford ing Stati
NP 88	248251	501-2	Piping De Momtford ing Stati
MP 95	248249	501-2	No. 705, Montford ing Stati
- Sectors			

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e Colored Troops Camp-Sewage ation, Reinforcing Details,

ge Colored Troops Camp-Sewage tation, Structural and Piping Location Plan

ge Colored Troops Camp-Sewage tation, Electrical Work

Base

g Camp Knox)

A Point Camp No. 2, Sewage Pumption No. 10, Structural and Details, Location and Layout Plans A Point Camp No. 2, Sewage Pumption No. 10, Special Manhole , Miscellaneous Details A Point Camp No. 2, Sewage Pumption No. 10, Bar Bending Details

1	and a succession of the second s				· ·
		DWE . NO .	Y & D No.	Proj. No.	
n an <u>a' a' a' a</u> n an	the state of the second state	IP 99	248250	501-2	Montford Po
		IP 137	288119	1101-14	ing Station Additions t
an a		IF 138	288120	1101-14	ment Plant, Additions t
	1.14				ment Plant, Piping Deta
		NP 139	288121	1101-14	Additions t ment Plant,
· · · · · · · · · · · · · · · · · · ·		IP 140	288122	1101-14	Details Additions t ment Plant,
A. 7		IP 169	288123	1101-14	forcing Ste Additions t ment Plant,
		IP 170	288124	1101-14	ing Details Additions t
	• ** • *******************************		0003.05		ment Plant, Details
		MP 187	288125	1101-14	Additions t ment Plant, and Parshal
	· · · · · · · · · · · · · · · · · · ·	IP 198	288126	1101-14	Additions t ment Plant,
		NP 199	288127	1101-14	Additions t ment Plant,
		MP 201	288128	1101-14	Additions t ment Plant,
		MP 203	288129	1101-14	Additions t ment Plant, and Structu
March Constant	e in a status en e	NP 204	288130	1101-14	Additions t ment Plant,
		NP 205	288131	1101-14	ing Details Additions t ment Plant, tural Plans
Roger Borger, en la compañía de la En la compañía de la c	See 2 and a second second second	NP 217	288132	1101-14	Additions t ment Plant,
na ann an Stairte an Stàirte an St Tàirte an Stàirte an Stài		WP 218	288133	1101-14	Additions t ment Plant,
		000 22	288134	1102-14	Scales Cree Structural Plan, Locat
		CCC 23	288135	1102-14	Scales Cree Special Man Details
		CCC 24	288137	1102-14	Scales Cree Reinforcing

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Title	(Cont	(b)	
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oint Camp No. 2, Sewage Pumpn No. 10, Electrical Layout to Montford Point Sewage Treat-. General Plan to Montford Point Sewage Treat-

, Imhoff Tank, Structural and ails, Location Plan

to Montford Point Sewage Treat-, Imhoff Tank, Reinforcing

to Montford Point Sewage Treat-, Imhoff Tank, Bill of Reineel

to Montford Point Sewage Treat-, Influent Chambers, Reinforc-S

to Montford Point Sewage Treat-, Parshall Flume, Reinforcing

to Montford Point Sewage Treat-, Details of Influent Chamber 11 Flume

to Montford Point Sewage Treat-, Miscellaneous Details

to Montford Point Sewage Treat-, Outfall Sewer

to Montford Point Sewage Treat-, Office and Tool Storage Bldg. to Montford Point Sewage Treat-, Chlorination Bldg., Piping ural Details

to Montford Point Sewage Treat-, Chlorination Bldg., Reinforc-S

to Montford Point Sewage Treat-, Chlorination Bldg., Architecns and Details

to Montford Point Sewage Treat-. Electrical Layout

to Montford Point Sewage Treat-, Sludge Drying Bed

ek Sewage Pumping Station,

and Fiping Details, Layout ation Plan

eek Sewage Pumping Station, anhole No. 813, Miscellaneous

eek Sewage Pumping Station, r Details

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		401	DWE. No. Y & D No. Proj. No.
			000 25 288137 1102-14 Scales Creek :
1	2 A		CCC 262881381102-14Reinforcing DescriptionCCC 262881381102-14Scales CreekElectrical Lay
$v_{a}^{t}e_{a}^{-t^{2}}t^{\prime}$.		· · · · · · · · · · · · · · · · · · ·	
			Q-5.13. Peterfield Point Camp
			None
			1,010
1. 2. ²⁰ 1	an a	. 643 1	Q-5.14. Tank Battalion Camp
	2 3		None
	2 - 2 - 2 ¹⁴	. OT (. 1	Q-5.15. Midway Park Residential Area
	, Dy a C	14 11 - 11 - 12	None
	113		Q-5.16. Marine Corps Women's Reserve
			None
1.2			Q-5.17. Beach Area
			13892 287971 2302 Chlorination
			and Details 1427 287974 2302 Sewage Treatm Sludge Pode
			1428 287975 2302 Sludge Beds, Details
	+ 18 	- 342-41	14292879762302Imhoff Tank,14302879772302Imhoff Tank,
			Bar List
×		- 18 -	Q-5.18. Miscellaneous
			None
z (^{ten} g			Q-6. Water
			Q-6.01. Division Training Area
			1517 287872 1510 Sewer & Water Regimental Ar
-			NoEtmonoat III

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Sewage Pumping Station, Details, Bar Lists Sewage Pumping Station, ayout

Building, Plans, Elevations

ment Plant, Layout Plan, Prechlorination Manhole. Piping and Structural

Reinforcing Details Reinforcing Details and

er Plan Swimming Pool Area No. 5

Dwg	No. Y &	D No.	Proj. No.	
151	8 287	873	1510	Sewer & Water Regimental Are
	Q-6.02.	Camp Tr	oop Activit:	ies
151	248	266		Water Distribu
130		692	1513	Blvd. and Para Red Cross Buil Grading, Sewer
	Q+6.03.	Supply	and Industri	al Area
151	0 248	265		Water Distribu Industrial Are
	Q-6.04.	Naval H	lospital	
			None	
	Q-6.05.	Residen	itial Area	
150 152		29 7 7907	234-1 1601	Water Distribu Paradise Foin Sewer Plan
	Q-6.06.	Rifle F	lange	
150	8 162	298	×	Water Distribu Range Colored
	Q-6. 07.	Barrage	e Balloon and	Amphibian Base
			None	
	Q=6.08.	Parachu	ute Training	Area
	-		None	

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(Cont'd) Title

Plan Swimming Pool ea No. 2

oution System - Holcomb radise Point Road ilding, Site and Detail Roads, er and Water Plan

oution Area, Supply and ea, Southeast Side

oution System, Radar Area nt Swimming Pool Water and

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oution System for Rifle Troops Area

Q-(6.09. Airpon Incomp		ruction Deferred
1512		2200-13	Lighter-Than-A Distribution
Q-6	6.10. Tent (Camp No. 1	
		None	
Q-(3.11. Tent (Jamp No. 2	
		None	
		Mone	
Q-6	3.12. Montfo		as (Including Cam
Q-(MP 300	5.12. Montfo 287877		Sewer and Wat
The second second	en gap en elle test any	ord Point Area	as (Including Camp Sewer and Wate Montford Poin Montford Poin and Distribut
MP 300	287877	ord Point Area	Sewer and Wat Montford Poin Montford Poin and Distribut Montford Poin White Officer
NP 300 NP 60 NP 112	287877 162296	ord Point Area 1103 501-1	Sewer and Wat Montford Poin Montford Poin and Distribut Montford Poin White Officer Distribution Montford Poin
NP 300 NP 60	287877 162296 162299	ord Point Area 1103 501-1 1100-13	Sewer and Wat Montford Poin Montford Poin and Distribut Montford Poin White Officer Distribution Montford Poin Distribution Montford Poin
NF 300 NF 60 NF 112 NF 113	287877 162296 162299 248261	Drd Point Area 1103 501-1 1100-13 1101-13	Sewer and Wat Montford Poin Montford Poin and Distribut Montford Poin White Officer Distribution

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None

Q-6.14. Tank Battalion Camp

None

Q-6.15. Midway Park Residential Area

None

Title (Cont'd)

ir Facilities Water

Knox)

r Plan Swimming Pool Area Camp No. 2, Water Supply on System Camp No. 2 and 2A ' Quarters, Water ystem Camp No. 3, Water vstem Camp No. 3, Water ystem and Distribution System

nd Distribution System

				DWE . NO	Y & D No.	Proj. No.	
2						e Corps Women	s Reserve
				1509	248262	1200-13	Water Distril Corps Women's
		and the second second	· · ·	Q	-6.17. Beach	Area	×.
				1520	287940	2302-13	Wells Nos. 22 Mains
			1	1521	287941	(2302-14 (2302-13	Water and Sev
				3195		2302	Proposed Wate Waterway - Le
	- 		·	3196		2302	Map Proposed Wate Waterway Prof
				1522	287973	2302	Sewer and Wa
		a di Mara		Q	-6.18. Misce	ellaneous	
						None	
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(Cont'd) Title

ibution System - Marine i's Reserve

22 & 23 and Water transmission

Sewer Plan ater Main Crossing - Inland Location Detail - Vicinity

ter Main Crossing - Inland ofile and Details Nater, Miscellaneous Details

				4. 1. 1	•		
				NO	. <u>Y & D</u>	No. Proj. No.	Title
and the second					Water Stru		
a^{2} , $\Xi \rightarrow \Xi$				fair -		Division Training	Area
1			· · · · ·		24826	the start of the s	Water Plant - Filter-
				1542 14801	228762		Chemical Storage Build ment Plans, Elevation
		\mathbf{P}_{0}					monto i ranto gi bioto da ci-
			LAN A COMPANY		Q-7.02.	Camp Troops Activ	ities
			• .			None	
	e station en	1. M.			Q-7.03.	Supply & Industri	al Area
e transformer a filme						None	
			and a start of		Q-7.04.	Naval Hospital	
						None	
					Q-7.05	Residential Area	
						None	
						Didle Domas	
					Q-7.06.	Rifle Range	
		3				None	
					Q-7.07.	Barrage Balloon	& Amphibian Base
						None	
					Q-7.08.	Parachute Traini	ng Area
						None	an an an ann an an an an an an an an an
					Q-7.09.	Airport	
			*			None	
			. 3				
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r-Surface Wash System ilding for Water Treat-ons and Details

H	DWE. No.	Y & D.	No.	Proj. No.	
	U-0-	Q-7.10.	Fent Can Incomple	ps No. 1 &	No. 2 uction Deferre
l	TC 126			139	Water Treatmen
	TC 127			139	Location Plan Water Treatmen Elevations 20
	_{TC} 128			139	Water Treatmo Stair Section Details
ŀ	TC 129		4	139	Water Treatme & Dotails
ŀ	TC 130			139	Water Treatme Sections & De
l	TC 131			139	Water Treatme Details & Sch
L	TC 132			139	Water Treatme
l	TC 133			139	Nator Plant, Nater Softeni
	TC 134			139	Water Treatme and Chlorine
	TC 135	x *		139	Water Treatme Details and H
l	TC 140			139	Injector Char Water Treatme Plumbing
	TC 405			139	Water Treatme Electrical La
	TC 406			139	Water Treatme Chlorine Equ:
				7	Power Layout
L		्-7.11.	Montfor	d Point Are	as (Including Ca
Ł	MP 83	24	8253	501-3	Foundation P 2
	MP 100	24	8254	(500-3 (501-3	Obstruction M.P. No. 2
l	MP 146	24	8268	1101-13	
		Q-7.12.	Peterf	ield Point (lamp
l			None		
		Q-7.13.	Tank B	attalion Car	np
			None		
		Q-7.14.	Midway None	Park Rosid	ential Area
				- 1108	-

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ent & Filter Plant n ent Plant - Floor Plans, 0.25 & 29.0 ent Plant - Floor Plan, ns, Concrete Bracket

ent Plant - Elevations

ent Plant - Framing Details Hent Plant - Door & Window Hedules Hent Plant, Aerator Dotails

, Plan & Details of Filters, ning Equipment & Piping ment Plant, Chemical Feeder e Equipment ment Plant, Venturi Vault Fiping, Chlorinator amber, Softening Tank Piping ment Plant - Floor Plans -

ment Plant - Floor Plans Layout & Details ment Plant - Floor Plan uipment & Chemical Pumps t

Camp Knox)

Plan for Water Tank M.P. No.

Lights for Water Tank

Plan for 150,000 Gallon

		nurg. No	. Y & D No. Proj. No	• Ti
the second se	and the second	0.0		Iomen's Reserve
			None	Nananagkud nya tan ang ang ang ang ang ang ang ang ang a
			Q-7.16. Beach Area	
	6.04		1000 0 100 0 000 0 000 0 000 0 000 0 000 0 000 0	
		1513	287925 2301	Foundation Plan, and Layout Plan,
	4	1514	287926 2301	Water Tank: Details for Obser
	0.03	1014		Water Tank.
	e i stationer	13893	287972 2302	Well Pump Houses
	051 2	4730	287982 2302	Details Electrical Layout Nos. 22 and 23
	1. 2. 3.			MOD, no atta no
			Q-7.17. Miscellaneous	
	. 5° 5 104		ante prode specification and an endpoint of the specific data and an endpoint of the	
	131 84		None	
	and the second	Q-8.	Telephone.	
	-11.2 420	M=0.0	Terobuouce	
en de la filme de la construcción d La construcción de la construcción d			Q-8.01 Division Train	ning Área
	The second second		None	
	-C. Sta		1,000	
			Q-8.02. Camp Troops A	tivitice
and the second			Q-8.02. Camp Troops A	301010108
			Q-8.03. Supply & Indu	strial Area
	1	3784	267225 124	Industrial Area T
	1. A. S.	7700	0.05000 1500 0	Additional Plant
		3798	267226 1308-9	Telephone System Industrial Area
	1.3. 2	*.	A 9 04 Norral Hearita	1
			Q-8.04. Naval Hospita	
			None	
		-		
			Q-8.05 Residential A	rea
			None	
		1		1109 -
		and the second	-	TTO 3 .

, Elevation, Piping Details , 100,000 Gallon Elevated ervation House, Elevated s - Plans, Elevations and ut and Distribution Wells

a Telephone System at Facilities em - Labor Battalion -

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						V C.	D No	Proj Ne	Title
					ME. NO	Q-8.06.	D No. Rifle F	Proj. No.	11010
	$\frac{1}{2} \left\{ \begin{array}{c} 1 \\ 1 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\ 2 \\$				3762	1623	-	1900-15	Outside Plant Cor System - Rifle Rs
						Q-8.07.	Barrage	Balloon &	Amphibian Base
			e kore				None		×
	.3.	1 · · · · · · · · · · · · · · · · · · ·		-		Q-8.08.	Parachu	ate Training	Area
			10 - 12 - 12	EQUAL 111 DECA			None		
an ganta an da yara. Tan				1 20		Q-8.09.	Airport	t	
			n b N N R	•	4707			(P-2200-12 (P-2200-13 (P-2200-1	Lighter-Than-Air
		· · · · · ·	1 ^{21 2} 4 2			Q-8.10.	Tent Ca None	amp No. 1	
			ал 14	3. 11		Q-8.11.		amp No. 2	
			· • •		MP 174	Q-8.12.	Bergenerge von einen an einer Marbeit	rd Point Arc	Montford Point C
			s.						Outside Plant Co System
				-	MP 175	162		1100-15	Montford Point C System - Outside
and the second second					CCC 17	162			Camp Knox Area - Plant Constructi Camp Knox Area -
					MP 78	162		501-17	Plant Constructi Montford Point C System - Outside
						0 0 17	Deter	Hald Daist	4100

Q-8.13. Peterfield Point Area

None

• • - 1110 - onstruction - Telephone Range Area

r Facilities

mp Knox)

Camp No. 2 & 2A Construction - Telephone

Camp No. 3 - Telephone de Plant Construction - Telephone System-Outside tion

- Telephone System-Outside tion

Camp No. 2 - Telephone de Plant Construction

			The state			
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		· + 07	DWE . NO	• Y & D No.	Proj. No.	an galangang ngang sang sang ngang sang ngang sang ngang sang ngang ngang ngang ngang ngang ngang ngang ngang n Sang sang sang sang sang sang sang sang s
			-	Q-8.14. Tank	Battalion Area	
		· · · · · · · · · · · · · · · · · · ·			ng agan karagan dini ng sa Kanani na atau ga pali a tana atau ga pa	
	1 + 1 + 1 + 1 + 1			Non	D	
		N		Q-8.15. Midwa:	y Park Rosiden	tial Area
				Non	9	
	· · · · · · · · · · · · · · · · · · ·	·				
			14	Q-8.16. Marin	e Corps Women'	s Reserve
			3779	267227	1200-15	U. S. Marine Telephono Sy
						tion
		and a second		Q-8.17. Beach	Area	
a and a strate water	States and the		1017	267228	124-1	Cable Facili
	the second second by		4713	201220	104-1	and Balloon
			4714	267229	124-1	Cable Facilit
×		• . <u>1</u>	4715	267230	124-1	and Balloon Cable Facili
			4/10	201200	101-1	and Balloon
			4716	267231	124-1	Cable Facili
			4717	267232	124-1	and Balloon Cable Facili
	· · · · · · · · · · · · · · · · · · ·		1111	101101	**** 1 **	and Balloon
			4718	267233	124-1	Cable Facili and Balloon
			4719	267234	124-1	Cable Facili
	a car in frances			× .		and Balloon
			4720	267235	124-1	Cablo Facili and Balloon
and a second contract of the second						Loading Layo
			3189			Proposed 240
		÷				Telephone Ca Waterway nea
		12 25	3190			Proposed 240
		4				Tolephone Ca
						way near Hur
		E 75				
				Q-8.18. Misc	ellaneous	
		·	4711	162371	1509	Line Change
			1			Ferry
		2	3191			Proposed Sut
	1					Cables acros

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Title

rine Corps Women's Reserve -System - Outside Plant Construc-

lities - For Hurst Beach n Barrage Area ities - For Hurst Beach n Barrage Area lities - For Hurst Beach n Barrage Area litios - For Hurst Beach n Barrage Area lities - For Hurst Beach n Barrage Area Schematic vout 400 V. Submarine Power and Cable Crossing - Inland lear Hurst Beach - Plan 400 V. Submarine Power and Cable Crossing - Inland Waterurst Beach - Location Detail

nge for New Bridge at Sneads

Submarine Power and Telephone cross New River at Sneads Ferry

DWE . No	. Y & D No.	Proj. No.	Title
2-9.	Propane Gas Sy	ystem.	
	None		
	Electrical Dis	stribution	· · ·
q-10.		nanna i Air an an a' Air an an Air an an Air an	
	Q-10.01. Div:	ision Training	; Area
4701	287812	1506-12	Regimental Area Electrical Distr
¥702	287813	1506-12	Regimental Area Electrical Distr
703	287814	1506-12	Regimental Area Electrical Dist
	Q-10.02. Cam	p Troop Activ	
3774	267210	1500-12	Electrical Dist
733	304691	1513	Paradise Point H Red Cross Build: and Electrical H
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	Q-10.03. Sup	ply and Indus	trial Area
8776	248165	1308-7	Supply and Indu Distribution for
721	267211	108-9	Supply and Indu Distribution
736	230194	1312	Central Heating age Space - Ele
	Q-10.04. Nav	ral Hospital	tribution
3759	Q-100010 1100	400-1-22	Naval Hospital
0100		100-1-22	Additional Feed
	Q-10.05 Res	sidential Area	
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	Q-10.06 Rit	fle Range	
3763	248161	1900-12	Rifle Range Are
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r's Quarters at Montford Electrical Distribution istribution for Camp Knox stribution for Camp Knox

<u>DWE. No. Y & D No. Proj.</u> Q-10.15. <u>Midway Park Re</u> None Q-10.16. <u>Marine Corps M</u> 3767 248164 1200-1	Nomen's Reserve
Q-10.15. <u>Midway Park Re</u> None Q-10.16. <u>Marine Corps M</u>	Nomen's Reserve 12 Marine Corps
None Q-10.16. Marine Corps N	Nomen's Reserve 12 Marine Corps
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	and our tout D.
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3189 3190	Proposed 240 Telephone Ca Waterway nea Proposed 240 Telephone Ca
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Q-10.18. Miscellaneous	
3191	Proposed Sub Cable Crossi Sneads Ferry
Q-11. Topography	
3186 248147 3187 248148	Trailer Camp Anti-Tank Ra of Quadrangl
- 267400 267401 267402	Quad. 98 K-1 Quad. 98 K-3 Quad. 98 P-1
267403 267404 267405 267406 267407 267408 267411	Quad. 98 P-3 Quad. 98 Q-3 Quad. 98 T-1 Quad. 98 U-1 Quad. 98 U-3 Quad. 98 Y-1 Quad. 99 Y-1

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			Q-12.	Gasoline and Oil	Storage & Distrib	ution.
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				Q-12.01. Divisi	ion Training Area	
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		• • • •		None	9	
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				Q-12.02. Camp 7	Proop Activities	
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····				None	9	
				Q-12.03. Supply	y and Industrial A	rea
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			5687	228830	108-11	Tank Farm and Service
						Piping Diagram (As Bui
			6635	228831	1307	Gasoline Supply from T
						Post and Division Gara
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				Q-12.05. Resid	ential Area	
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			Rifle Range	
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			None .	
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		Q-12.07.	Barrage Balloon and Amph	ipian Base
		•	None	
		Q-12.08.	Parachuto Training Area	
			None	
		Q-12.09.	Airport	
	5676	16206	59 (116 Land	ding Field - Ga
	0010	10000	(142-4 Aqua	a System Layout
		Q-12.10.	Tent Camp No. 1	
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		Q-12.11.	Tent Camp No. 2	
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	-	Q=12.10.	Peterfield Point Camp	
			None	
		Q-12.14.	Tank Battalion Gamp	
			None	
		Q-12.15.	Midway Park Residential	Aroa
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						Q-12.18.	Miscell	aneous	
							None		
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an of Chemical Feeders for revention Treatment of Return System - Regimental dustrial Area ool Buildings, Steam Distrib-3, 4 & 5 and Rifle Range bol Buildings, Steam Distrib-eas 3, 4 & 5 and Rifle Range ibution for Swimming Pools

Building - Steam n

an of Chemical Feeders ion Prevention Treatment of Return System - Regimental dustrial Area Pit at Office Building-Industrial Area - Plan, Sections and Dotails lion Supply and Industrial Distribution Plan

All 2:002 100-B Lubor Betuilist Area p377 2:002 100-B Service Pit for 2 p377 2:003 100-B Service Pit for 2 p377 2:004-B Service Pit for 2 Service Pit for 2 p377 2:005 100-B Service Pit for 2 p377 2:007 [41] Lostin Plan f p378 2:007 [41] Lostin Plan f p378 2:007 100 Ston Line to Mar p415 2:007 100 Data p388 2:007 100 Data p415 2:007 [41] Lostin Plan f p416 2:007 [41] Lostin Plan f p417	7	ATT						
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Nav 1 Hospital - Plan and

n of Chemical Feeders for ovention Treatment of Conden-System

Colored Troops Area, Outside bution n of Chemical Feeder for evention Treatment of Conden-System 1 Buildings - Steam Distrib-3, 4 & 5 and Rifle Range 1 Buildings - Steam Distribs Areas 3, 4 & 5 and Rifle

Base

n of Chemical Feeder for evention Treatment of Conden-System licers' Quarters, Steam and Details

Dwg. No	• Y & D No•]	Proj. No.	Title
	Q-13.08. Parachut	e Training 4	irea
	None		
	Q-13.09. Airport		
	None		
	Q-13.10. Tent Cam	p No. 1	
667	228875	(411 (238	Location Plan of Corrosion Preven sate Return Syst and No. 2
	Q-13.11. Tent Cam	p No. 2	
566 7	228875	(411 (238	Location Plan of Corrosion Proven
			Condensate Retur 1 and No. 2
	Q-13.12. Montford	l Point Area	s (Including Camp
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56688	228876	(4 11 (238	Distribution Location Plan of Corrosion Proven
74	248048	501-16	Condensate Retur Montford Point C Steam Distributi
5684	248054	(1900 -11 (1100 - 11	Outside Steam Di
6662	287899	(1100-11 (1510 (1103	Steam Distributi
	Q-13.13. Peterfi	eld Point Ca	amp
	None		
	Q-13.14. Tank Ba	ttalion Cam	p
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Chemical Feeders for ntion Treatment of Condentem - Tent Camp No. 1

f Chemical Feeders for ntion Treatment of rn System - Tent Camp No.

Knox)

No. 3 - Outside Steam

f Chomical Feeders for ntion Treatment of rn System Camp No. 2, Outside

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	ar All a stars				None	×	
		•		Q-13.16.	Marine Cor	ps Women's Res	serve
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				Q-13.17.	Beach Area		
	a second se		6679	2879	Construction of the second second second second	2302	Steam
				Q-13.18.	Miscellane	eous	
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2-14.	Division Training Ar	ea	
	Q-14.01. Barracks	· · · ·	
3772	162524	1200-22	Alterations + Barracks, Elec
	Q-14.02. Mess Hall		
12817	287701	1200-22	Uniform Shop f Mess Hall No.
12818	287702	1200-22	Uniform Shop f Mess Hall No. Fixture Detail
12819	287703	1200-22	Uniform Shop f Mess Hall No.
3 7 80	287704	1200-22	Uniform Shop f Mess Hall No,
	Q-14.03. Battalion	Warehouse	
12812	287700	1200-22	Alteration Sho

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			Station of the other designs,							
12812	28	7700		1200-	22	Alte No.	ratio	n Shop	in	Ba
3781	28	7705		1200-	22	Alte	133 -			
3782	28	7706		1200-	22	Beau	ity Sho 103 -	op in	Batt	al
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13836	30	4695		1507		Phot	tograp	hic Fa	acili	iti
6685	30	4696	×	1507		Phot	tograp	hic Fa	cili	iti
6684		4697		1507		P. 1	nbing F. in	Bldg.	No.	27
4735		4698		1507			F. in			
	Q-14.04.	Post	Excha	ange ar	nd Ser	vice	Club	Storel	louse	9

	Rett.O.t.	1020 1	120110	1160 0110 201	
11863	24 Q-14.05.	.8204 School	Bui	234-A ldings	Plans, Elevat
13833	28	87805		(1506-21)	Plans, Elevat
13834	1 28	87806		(1506-21) (1901-21)	Door, Window
13835	28	37807	/	(1506-21)	Alternate Wal
6638	28	37808		(1506-21 (1901-21	Heating and N

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First Regimental Area ctrical Work

for Women's Reserve in 107 - Plans and Details for Women's Reserve in 107 - Partition and 15

for Women's Reserve in 107 - Fixture Details for Women's Reserve in 107 - Electrical Layout

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Shop in Battalion Warehouse Electrical Layout p in Battalion Warehouse Electrical Layout

ic Facilities in Bldg. No. 27 and Details ic Facilities in Bldg. No. 27

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11 Section

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	· · · ·	1	138	EO	287884	(1103 (1510	Roof Plan,
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aluptions h' all table		1	138	383	287889	1510	Elevation a
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m Details Details ans and Details and Steam Disand Details Vent - Hot and Cold Water

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oilet and Shower Rooms, Plan, and Details Skylight and Cupola Details

s, Exterior Door, Details al and Cross Sections Nall Details and Exterior Door Details for Area No. 2 or Plan - Foundation Plan

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		1	• •		6660	287897	(1103)(1510)	Heating and Ventilati
		iti-			6661	287898	(1103)(1510)	Plumbing
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	altanet martinet	1997. 1977 <u>1</u> 9	1		4728	287901	(1103)(1510)	Main Floor Electrical
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	ender of soil or achief	8 (L)		51155. 	12821	230814	201-12	Revised Details of Vo
	and a store is interest board is				Q-	16.02. Post	Dispensary	
	and the second sec				11861	248134	400-3	Miscellaneous Details
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	jegentarious Structurel Dotales esture	21.06 (21.06	No.		Q-	16.04. Mark	1 Gunnery Tra	iner
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	and the second and the second second second	CLOB	4. (372-N.)		13838	267600	1503	Foundation Plan
			an an an	14. g	14807	267611	1503	Color Scheme
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· · · · · · · · · · · · · · · · · · ·			and the second	13840	267602	1503	Elevations and Mi
and alarter in the state in	1.11	a program a	0530	13841	267603	1503	Wall Section and
	1. 1. 1	· · ·	and the second second	13842	267604	1503	Room Finish, Door
and the second second			Zans.	13843	267605	1503	Shelving and Misc
	· · · · · ·			13844	267606	1503	Roof Plan, Truss
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	and the second			6654	267608	1503	Plumbing
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		a the second s	· · · · · ·	11866	287830	(1501	Chanadana 2 Data 17
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provide the state of the state		· · · · · ·					Details
i testal calle in the bar bar for			19.06	11890	287751	1500	Wall Sections
analistic and an analysis of the			12878	11891	287752	1500	Entrances and Chi
			ISBRI	11892	287753	1500	Sections and Deta
				11893	287754	1500	Doors, Windows an
	· · ·			11894	287755	1500	Class Room and Ca
				11895	287756	1500	Toilets, Shelving
2. ¹				11896	287757	1500	Ceiling Plans Ref
			12021	12827	287758	1500	Structural and Ro
				12828	287759	1500	Details of Truss
	as pro in ana ina			12829	287760	1500	Corridor Ceiling
							Roof Framing Plan
				12876	287761	1500	Equipment Layout
			1200	12879	287762	1500	Color Scheme
		* .		5698	287763	1500	Plumbing
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xtension - Structural Details xtension - Foundation - Floor ations - Sections - Schedules ls xtension - Details xtension - Details xtension - Electrical Layout xtension - Heating Plan

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eating Plant - Chemical Feed

d Storage Space, Floor Plans, s and Sections d Door Details, Wall Section, l Details, Office and Storage oof Plan Storage Space - Fl. Plans Elevs. s Storage Space - Roof Plan. Toilet ils - Mall Sections, Stret. Det.

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				12866	287782	1305	Floor Plan and Elevations
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	and the second	Care .		12868	287784	1305	Sections - Details
	1.18.202		Sec. 1	12869	287785	1305	Roof Plan - Details
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				12834	287774	1305	Floor Plan - Elevations
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12864	201113	(1302	Detail Sheet for Buildings Nos. 1410, 1704 and 1705
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3788	LOTIEL	(1306	1410, 1704 and 1705
12865	287720	1306	Plans, Elevations and Details of Bldg
12000			No. 1409
6637	287721	1306	Heating, Steam Connections and Plumb:
0001			Building No. 1409
3797	287723	1306	Building No. 1409 - Electrical Layout
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	Q-17.09. Ca	amp Communication	15 Warehouse
13823	287833	1303-B	Floor Plans, Elevations, Schedules,
10020			Details
13824	287834	1303-B	Roof Plan, Details
636	287835		Heating and Plumbing
1705	287836		Electrical Layout
13801	287837	1303-B	Plan, Elevations, Sections
	Q-17.10. Ca	amp Communication	as Storage Shed
2880	287838	1303-C	Post Communication Facilities - Moto:
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			tions and Details
3799	287839	1303-C	Post Communication Facilities - Motor
			Storage Shed - Electrical Layout
	0-17.11. L	abor Battalion Ba	arracks (One Story "H" Type)
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12807		1308-1	Foundation Flan and Sections
12808		1308-1	Floor Plan and Miscellaneous Details
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2810		1700 1	Toilet Area Details
2810 2811			
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			P 64	248220	1308-3	Plan, Wa Details
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			and the second second	Q-17.16. Truc	k Loading She	eds and Car
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			11857	248178	108-11	Plans,

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		· 13.50	13898	229834	2100	Changes in Toilet and Floor Plan, Elevation
		11	Q-18.	.02. Naval H	ospital - Nu	urses Home
			11860	230256	400-1-7	Details of Screen En
						Platform.
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			11865	230257	400-1-12	Details of Shelving and 102
			Q- 18	.04. Facilit	ies for Wave	es
		· · · ·	13898	229834	2100	Naval Hospital Corps Changes in Toilet an
	× 1		×			Floor Plans, Elevati
	5 M		Q-18	.05. Naval H	ospital War	ds and Corridors
		11	14821	230436	2102	Changes in Ward 8 -
			6693	230437	2102	Alteration to Ward 8 Heating
			4739	230438	2102	Changes in Ward 8 -
			Q-1 8	.06. Naval H	Hospital Adm	inistration Building an
		-	14806	230513	2101	Acoustical Treatment Recreation and Refre
			Q-19. R	lesidential An	ea	Stores and Scullery
			Q - 19	01. Bachelor	Officers!	Mess and Officers' Clu
			6617	229177	237	Chemical Feed System
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Plan and Details

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and all steps -		g-10.003. Darra		
	P 63 P 64	248219 248220	1600-1 1600-1	Foundation Plan, Ele Plan, Wall Section, Details, Cross Secti
	P 77	248213	1600-1	Electrical Layout
		and the second second	3	
		Q-19.03. Washr	oom for Mess	men
and a second	IP 56 IP 57 IP 81	248210 248211 248212	1600-2 1600-2 1600-2	Plans, Sections and Elevations and Detai Plumbing and Heating
	P 77	248213	1600-2	Electrical Layout
		Q-19.04. Swimm	ing Pool	
	13894 13895		1601 1601	Plans - Pool to Dres Elevations and Deta
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	6682 1523 1524	28 79 09 28 7 903 28 7 904	1601 1601 1601	Heating and Plumbing Filter Room Piping, Miscellaneous Secti
	1525	287905	1601	Outside Piping
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	House	e.subultin.number	al School Ar	ea No. 2, Radar Facilit
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	11854	248182	234-1	Foundations

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	6617	229177	237	Chemical Feed Systems f
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		Q-20.02. Rifle	e Range, Colo	red Troops Barracks
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	P 63	248219	1900-1	Foundation Plan, Elevat:
	IP 64	248220	1900-1	Plan, Wall Section, Doo
				Details, Cross Section
	P 77	248213	1900-1	Electrical Layout
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		8-28.00. ILT.TC	s mange, core	
	12833	287856	1900-4	Galleys and Scullery Ro
	10000	501000		and Equipment Layout
	5686	287857	1900-4	Plumbing, Waste and Ven
	5688	287858	1900-4	Refrigeration
and the second and the	6609	287859	1900-4	Galley and Scullery Ven
	IP 65	248222	1900-4	Foundation Plans
	LP 66	248223	1900-4	First Floor Plans
a the second of the second states and the second states and the	IP 67	248224	1900-4	Elevations, Sections an
The TIME A CALL AND ALL AND A CALL	IP 68	248225	1900-4	Typical, Windows and Do
		040000	1000 1	Roof Framing, Truss Det
	IP 69	248226	1900-4	Details
	IP 98	248227	1900-4	Heating
and a state of the second of the second s	IP 101	248229 248230	1900-4	C. W. & H. W. Piping
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		0-20 04 Rifle	Range Color	ed Troops Administration B
		4-20% 04 1111 TO	1141160, 00101	
and the second sec	11884	287843	1900-5	Architectural Plans and
	5690	287844	1900-5	Plunbing .
	3766	287845	1900-5	Electrical Work
	IP 63	248219	1900-5	Foundation Plan, Elevat
	IP 64	248220	1900-5	Plan, Wall Section, Doo
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Power House

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					P 57	248211	1900-2	Elevations
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		фъ.			IP 77	248213	1900-3	Electrical
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					IIP 90	248242	1900-11	Details
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Draft Fan and Duct Layout

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Draft Fan and Duct Layout

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Draft Fan and Duct Layout

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s - Quarters and Storage Building Deferred

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- 1137 -

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al Feed Systems for Boiler Houses

Plant

al Feed Systems for Boiler Houses d Draft Fan and Duct Layout

Knox)

- Heating Plant

ed Draft Fan and Duct Layout

- Platoon Barracks

ation, Elevation and Details Wall Section, Door and Window ls, Cross Section rical Layout

- Mess Hall

ation Plans Floor Plans tions, Sections and Details al, Windows and Doors, Details, Framing, Truss Details ls ng bing and H.W. Piping crical Layout

-Officers' Mess and Demonstration

r Plans, Elevations, Sections, ils s, Gable, Kitchen Cabinet and ving Dotails

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- 1138 -

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Enlisted Men's Washroom

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- Administration Building

Elevations, Sections and Details ng and Heating ical Layout

- Heating Plant

tion and Floor Plans, Details indows tions and Details g and Details r and Stoker, Setting and Details rical Layout

- Gun Sheds

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- Warehouse

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2A - Platoon Barracks

dation, Elevation and Details , Wall Section, Door and Window dules, Details

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	21. * *						227	267283		1101-10	Heating, Plumbing
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	Q-2	26.23. Mont	ford Point Camp	No. 3 - Hostess House
MD	266	267376	1101-19	Foundation Plan and 1
	267			
	268	267377		Floor Plan and Sched
MP	269	267378 267379	1101-19	Elevations and Detai
	270		1101-19	Toilet and Bath Deta
MIP	210	267380	1101-19	Typical Wall Section Details
T	282	267381	1101-19	Color Scheme
	272		1101-19	
	273	267383		Plumbing
	274		1101-19	Plumbing
	275		1101-19	Heating
State of the second			1101-19	Ventilation
	280			Electrical Layout
MP	296	267387	1101-19	Revised Roof Framing
				Details of Scullery
	Q-2	26.24. Monts	ford Point Camp	No. 3 - Decontaminat
MP	222	267317	1101-22	Plans, Elevations and
				Details
MP	223	267318	1101-22	Roof Trusses and Mis
MP	244	267319	1101-22	Heating, Steam Conne
MP	224	267320	1101-22	Electrical Layout
	Q-2	26.25. Mont	ford Point Camp	No. 3 - School Build
MP	167	267312	1101-21	Plan and Details
	63	248219	1101-21	Elevations and Detai
	64	248220	1101-21	Details
	147	267307	1101-21	Roof Framing Details
		267313	1101-21	Plumbing, Water Pipin
	148	267308	1101-21	Electrical Layout
	Q-2	26.26. Mont:	ford Point Camp	No. 3 - Personnel Cla
MP	166	267306	1101-20	Plan and Details
	63	248219		Elevations and Detai
	64	248220	1101-20	Details
	147		1101-20	Roof Framing Details
		267313	1101-20	
	148		1101-20	Plumbing, Water Pipi: Electrical Layout
	Q-2	26.27. Mont	ford Point Camp	No. 3 - Gun Sheds
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MP	92	248206	1101-23	Plans, Elevations and
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	106-11			MP 188	267288	1101-11	Foundation Plan and Detai
	Sam Dilla		· · · ·	MP 189	267289	1101-11	Boiler Foundation and Mis
an a				ME 103	201200	1101-11	Details
	and the second		1.4	MP 190	267290	1101-11	Floor Plan and Opening Sc
	and the second second			MP 191	267291	1101-11	Elevations and Details
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				MP 214	267297	1101-11	Details
				MP 215	267298	1101-11	Coal Handling and Details
			· · · · ·	MP 216	267299	1101-11	Boiler and Stoker Setting
				MP 219	267300	1101-11	Electrical Layout
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				1519	287874	(1510-23	Drainage Layouts
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				13850	287884	(1103	Roof Plan, Skylight and
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						(1510	and Cross Sections
				13853	287887	(1103	Exterior Wall Details
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			· · · · ·	4 - 1 - 11 - 1		11050	040305	236-2	Window Schedule a: Wall and Cross Se
						11850 11851		236-2	Interior Details
		ye a sha ka			*	11852	248197	236-2	Details of Rooms 108
				3		5675	248198	236-2	Plumbing and Heat
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Q-32.04. M.C.W.R. Barracks 11876 267000 1200-1 Foundation and First Floor Framing 267001 11877 1200-1 Second Floor Framing and Details, Sleeve Plans

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Mess Hall No. 107, Plans and Details Uniform Shop for Women's Reserve in Mess Hall No. 107, Partition and Fixture

Uniform Shop for Women's Reserve in Mess Hall No. 107, Electrical Layout

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		Dwg. No.	Y & D No.	Proj. No.	Title
		11878	267002	1200-1	First Floor Plan, Do
					Details
		11879	267003	1200-1	Second Floor Plan and
		11880	267004	1200-1	Elevations and Exter:
		11881	267005	1200-1	Truss Details, Wall S
	·	11882	267006	1200-1	Toilet Room Details
		11883	267007	1200-1	Interior Details
		11885	267008	1200-1	Miscellaneous Details
	1.00	13800	267009	1200-1	Color Scheme
	100	5692	267010	1200-1	Foundation Plan, Plur
					Piping
	and the second	5693	267011	1200-1	First Floor Plan, Plu
and the second					Piping
an an an an ann an ann an ann an ann an		5694	267012	1200-1	Second Floor Plan, Pl
	1.5		201012	1000-1	Vent Piping
		5695	267013	1200-1	Foundation Plan, Plur
		5696	267014	1200-1	
		5697	267015	1200-1	First Floor Plan, Plu
and the second		6600	267015	1200-1	Second Floor Plan, Pl
		6601			Foundation Plan, Heat
		6602	267017	1200-1	First Floor Plan, Hea
		0002	267018	1200-1	Second Floor and Atti
and a factor of the second		6603	0.07010	1000 1	Ventilation
	* 19 A	3768	267019	1200-1	Pit Details, Plumbing
		3769	267020	1200-1	First Floor Plan, Ele
		3169	267021	1200-1	Second Floor Plan, El
		0	70 05 11 0		
		Q-	32.05. M.C.	A.R. Mess Ha	.11
	1	12200	0.00000	1000 1	
		12800	267027	1200-4	Foundation Plan
		12801	267028	1200-4	Floor Plan
	1	12802	267029	1200-4	Roof Framing and Trus
	1.00	12803	267030	1200-4	Elevations
		12804	267031	1200-4	Door and Window Sched
and Measure 1 1960 and a state of the second state of the second state of the second state of the second state	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	12805	267032	1200-4	Refrigerator and Stor
		10000			Details
	÷	12806	267033	1200-4	Typical Details and C
		12862	267034	1200-4	Galley Roof Framing a
		13831	267035	1200-4	Color Scheme
		6607	267036	1200-4	Plumbing, Waste and V
		6608	267037	1200-4	Plumbing, Water Pipin
	0	6623	267039	1200-4	Heating Plan
		125	267258	1200-4	Refrigeration
		3770	267041	1200-4	Electrical Work
		6610	267038	1200-4	Ventilation
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		18823	267048	1200-5	Toilet and Stea
	X	12824	. 267049	1200-5	Wall Sections a
	· · · · · · · · · · · · · · · · · · ·		267050	1200-5	Entrance and Tr
		12825		1200-5	Elevations and
		12826	267051	1200-5	Heating, Plumbi
	· · · · · · · · · · · · · · · · · · ·	6618	267052	1200-5	Steam Pit Detai
		6619	267053		Telephone Condu
		3777	267054	1200-5	Electrical Layo
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	1	12881	267129	1200-6	Foundation Plan
	1 . A. M. M.	12882	267130	1200-6	Floor Plan
		12883	267131	1200-6	Elevations
			267132	1200-6	Elevations "F-H
		12884	267132	1200-6	Portico Details
		12885		1200-6	Room Finish, Do
		12886	267134		Interior Detail
		12887	267135	1200-6	General Details
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		12889	2.671.37	1200-6	Toilet Details
		12890	267138	1200-6	Details
		12891	2.67139	1200-6	Roof Framing De
		12892	2.67140	1200-6	Roof Framing P.
		12893	267141	1200-6	Equipment Plan
	· .	4708	267147	1200-6	.Telephone Syste
		13886	267142	1200-6	Color Scheme
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		6665	267143	1200-6	Plumbing
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		13802	267106	1200-7	Foundation Pla
		13803	267107	1200-7	First Floor PI
					Details
		13804	267108	1200-7	Second Floor a
					Parapet Detail
		13805	267109	1200-7	Elevations and
		13806	267110	1200-7	Cross Section
		13807	267111	1200-7	Stair Details
			2.67112	1200-7	Typical Wall S
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		13809	267113	1200-1	and Lockers.
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		13825	267119	1200-7	
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				(1200-9A	Details of Refrigerat:
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				13855	287943	2302-1	Floor Plan, Sched
				13856	201040	2002 1	Details
	••				2.87944	2302-1	Elevations and De
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				13860	2.87930		Plumbing, Waste
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		the second second second		6673	287958	2302-4	Plumbing, Waste a
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		• •		13868	287934	2302-21	Foundation Plans,
				13869 13870	287963	2302-21	Plans, Elevations,
			1	4732	287964 287965	2302-21	Door, Window and
		· · · ·		4106	401900	2302-21	Electrical Layout
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## CHAPTER R - PART II

## LIST OF SPECIFICATIONS PREPARED

Listed herein are 114 new specifications and 61 addenda to old specifications prepared during the period from October 1, 1942 to December 18, 1943.

Numbers above eleven thousand were assigned by the Bureau of Yards and Docks.

	· • •
SPEC. NO.	TITLE
168	Glider Base
	Addendum No. 7
170	Water Treatment Plan
	Camp Areas 1 and 2 Sections 1 to 24
402	Sewage Treatment Pla Addenda Nos. 2 an
412	Montford Point Camp Pumping Station
	Sections 1 to 10 Section E
502	Water Pumping Equipm Addenda Nos. 4 an
504	Well Pumps Addenda Nos. 6 to
508	Water Pumping Equipm Pumping Station Sections 1 to 13
611	Induced Draft Fans f Sections l to Б i
612	Draft Gauges for Hea
613	Chemical Feed System Sections 1 to 3 i

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	710	Emergency Plant Radio
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	801	Barracks B - Modified
		Addendum No. 35
		7001 - 100
	803	Warehouses 360' x 180
		Addendum No. 19
	810-18	Insulation and Painti
		Ducts, Breechings and
		Central Heating Plant
		Addendum No. 1
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	818	Naval Hospital - Medi
and the second		Addenda Nos. 8 to
		Hating Dlast Stan
	824	Heating Plant - Struc
		Specification Addenda Nos 2 to 4
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	005	Cold Storage Plant
	825	Addenda Nos 8 and
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	830	Addenda Nos. 6 and
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	833	Naval Hospital - Adm
	000	and Mess Hall
		Naval Hospital - War
		Addenda Nos. 48 t
	835	Post Dispensary (Div
		Dental Clinic and Si
		Patient Clinic)
the second s		Addenda Nos. 7 to
	846	Naval Hospital - Lau
		Addenda Nos, 9 an
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		Addenda Nos. 2 an
	854	Post Shop Building
		Addenda Nos. 5 an

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and the second	·	856	Naval Hospital - Power Addenda Nos. 3 to 5
			Addenda Nos. 0 00 0
		859	Post Tailor and Cobble
		000	Addendum No. 1
		860	Bakery
• •		1	Addendum No. 4
and the second		967	Garage and Repair Shop
		. 867	Addenda Nos. 2 to 4
		880	Post Theater Addenda Nos. 5 and
			Addenda Nos. 0 and
and the second second of the second second second		883	Post Exchange Warehou
		805	Addendum No. 2
			The second se
		888	Transformer Houses at Addendum No. 1
			Addendant No. 1
and the second		890	Equipment Specificati
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			Addenda Nos 8 to 1
		201	Service Station at Po
the second state in the second of the second state of the second s		891	Addenda Nos. 1 and
		893	Scale House at Centre
hand the stand of the second second second			Addendum No. 1
		007	Gun Emplacements on
		897	Sections 1 to 3 is
		898	Repairing C.C.C. Cam
			be used as Dog Train Sections 1 to 9 i
			POOL OUT TO T
		899	Naval Hospital - Sto
		×	Sections 1 to 11
			Repairs and Addition
		900	Sections 1 to 19
	a second s		
		901	Dog Training Camp Di
	·		Sections 1 to 12
			Addendum No. 1
			N
			1155 -

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Camp Buildings to aining Camp 9 inclusive

Storage Garage 11 inclusive

tions to Gate House 19 inclusive

p Dispensary 12 inclusive 1

			SPEC. NO.	TITLE
			902	Dog Training Camp - Ken Heating Plant Sections 1 to 11 inc
			903	One Parachute Jumping T Training Area (Furnishi
		- 1		of all Structural Steel Sections 1 and 2 Addenda Nos. 1 and 2
and and an an an and an			904	Montford Point Building Sections 1 to 13 inc
				Addenda Nos. 1 and 2
		1	905	Radar Facilities Buildi Sections 1 to 9 incl
			906	Specification for Repai Type SH-9, SH -13 and M Tent Camp Area
	1		90 <b>7</b>	Mark I Anti-Aircraft Tr Sections 1 to 12 inc Addemdum No. 1
			908	Acoustical Treatment for Sections
		-	1001	Standard General Condit Sections 1 to 13 inc
		- 1	1002	Standard Specification: Electrical Work Sections 1 to 23 inc
			1003	Standard Specification: Building Site Sections 1 to 4 inc.
	N	-	1004	Standard Specification: Filling and Grading Sections 1 to 7 inc.
and the second sec			1005	Standard Specification
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SPEC. NO.	TITLE
1007	Standard Specifications Sections 1 to 9 incl
1008	Standard Specifications Work
	Sections 1 to 9 incl
1009	Standard Specifications Sections 1 to 6 incl
1010	Standard Specifications Sections 1 to 31 inc Addendum No. 1
1011	Standard Specifications Metal Work Sections 1 to 13 inc
1012	Standard Specification Sections 1 to 5 inc
1013	Standard Specification Sections 1 to 12 in Addendum No. 1
1014	Stendard Specification Glazing Sections 1 to 5 inc Addendum No. 1
1015	Standard Specification Sections 1 to 12 in Addenda Nos. 1 and
1016	Standard Specification Sewers Sections 1 to 26 in Addendum No. 1
1017	Addendum No. 1 Standard Specification Appurtenances Sections 1 to 15 in Addendum No. 1
1018	Standard Specificatio Hardware Sections 1 to 7 in Addendum No. 1

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the starts and the starts		SPEC. NO.	TITLE
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	а. А. 2	1024	Addendum No. 1 Standard Specification and Cold Storage Sections 1 to 39 in Addendum No. 1
		1025	Standard Specification Steel Water Tanks Sections 1 to 21 in Addendum No. 1
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	с. С. Д. Д.	1027	Standard Specificatio Sections 1 to 28 i Addendum No. 1
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		1029	Addendum No. 1 Standard Specification Pumping Stations Sections 1 to 26 Addendum No. 1

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	SPEC. NO.	TITLE
	1030	Tentative Standard Spec Conditioning
		Sections 1 to 41 in
	1031	Standard Specification Sections 1 to 22 in Addendum No. 1
	1032	Standard Specification Sections 1 to 17 in Addendum No. 1
The states	1033	Standard Specification Foundation Sections 1 to 11 is
	1034	Standard Specificatio Steel Sections 1 and 2 Addendum No. 1
The state of the s	1036 1501	Std. Spec. for Elev. For Projects P-1100-1 1900-1, 1900-3, 1101- 1600-2, 1900-2, 1900- Addenda Nos. 1 to
	1502	Automatic Chlorinator Montford Point Sewage Sections 1 to 17 i
1	1503	Montford Point Camp N Architectural Specifi Sections 1 and 2 Addendum No. 1
The second s	1505	150,000 Gallon Elevat Montford Point Camp N Sections 1 to 8 in
	1506	Facilities for Colore Sections 1 and 2
	1507	Additions to Montford Treatment Plant Sections 1 to 20 :
	1508	Flow Meter for Addit: Point Sewage Treatmen Sections 1 to 6 in

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Steel Water Tanks 1, 1101-1, 1600-1, -3, 1100-2, 1101-2, -4 3 inclusive

or for Additions to e Treatment Plant inclusive

No. 3 - Mess Hall ciations

ted Water Tank -No. 3 inclusive

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d Point Sewage

inclusive

tions to Montford ont Plant inclusive

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SPEC.NO.	TITLE
1	'ta'	1539	Warehouses for Marine Corp Reserve and Post Dispensar Sections 1 to 12 inclus
11		1510	Mess Hall for Marine Corps Reserve Sections 1 to 20 inclus
		1511	Mess Hall and Post Exchang Montford Point Camp No. 2 Sections 1 to 16 inclus
		1512	Barracks - Marine Corps We Sections 1 to 19 inclus Addenda Nos. 1 to 3 inc
	4 x 1	1513	Sewage Pumping Equipment Sewage Pumping Station (N Sections 1 to 8 inclus:
		1514	Personnel Classification Montford Point Camp No. 3 Sections 1 to 5 inclus
		1515	School Building - Montfor No. 3 Sections 1 to 8 inclus
	3-14 . -	1516	Administration Building - Camp No. 3 Sections 1 to 5 inclus
1		1517	Furnishing and Installing Montford Point Camp No. 2 Sections 1 to 3 inclus
		1518	Furnishing and Installing Montford Point Camp No. 3 Sections 1 to 3 inclus
		1519	Bachelor Officers' Quarte Point Camp No. 2A Sections 1 to 12 inclu
•	1	1520	Sewage Pumping Equipment Road, Sewage Pumping Stat (Near Over's Creek) Sections 1 to 8 inclus
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			-31.4.2 -	1521	Grade and High School Sections 1 to 24 in Electrical Sections
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	2		14	1522	Warehouses - Buildings Sections 1 to 20 in
17					
				1523	One Story "H" Type Bar Sections 1 to 17 in Addendum No. 1
38 M	ar a tha tha tha tha tha tha tha tha tha t			1524	Heating Plant - Montfo Sections 1 to 14 in
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				1527	Laundry Extension - I Sections 1 to 14 i
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inclusive

Industrial Area inclusive

ilding - Montford Point

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		SPEC. NO.	<u> PITLE</u>
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	. * * *	1537	Marine Corps Women's Sections 1 to 24
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	and the second sec	1010	Sections 1 to 18
		1543	Uniform Shop - Pos Sections 1 to 1
		1545	Theater, Post Exch Montford Point No.
			Sections 1 to 2
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		11905-1	Paradise Point Swi Sections 1 to 1
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			- 1162 -

int No. 3 inclusive

- Industrial Area 5 inclusive

Post Exchange - Marine erve 19 inclusive

n's Reserve - Infirmary 24 inclusive

mp No. 3 - Infirmary 24 inclusive

e Fence for Post ilities - Buildings 7

ole Platform Post cilities 18 inclusive

Montford Point No. 3 15 inclusive

ost Troops Area 18 inclusive

change and Barber Shop -6.3 23 inclusive

ools 15 inclusive

Swimming Pool

uildings - Heating and ion 1 to 1-42 inclusive

uildings - Architectural o 14 inclusive

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		11987-5	Clearing, Landscaping School Buildings in I
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		11987-9	Bus Terminal
			Sections 1 to 12 Addendum No. 1
		11987-10	Grading, Piling and Signal School Facili
	2-92 2		Sections 1 to 8 i Addendum No. 1
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		12098	Buildings and Utilit Facilities
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		12306	Addition to Central Chemical Storage for Plant
			Sections 1 to 8 i
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ings - Interior Electrical Services 1-03 inclusive

26 School Buildings g Area 1-04 inclusive

ing and Walks for 26 1 D. T. A. inclusive

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Hospital 1-36 inclusive

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100.000 Gallon Elevated Water Tank and Foundations Sections 1 to 18 inclusive

Red Cross Building Section 1 to 13 inclusive

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Bachelor Ufficers' Quarters-Barrage Balloon Battalion Sections 1 to 13 inclusive.

Office of the Camp Engineer S. A. M. C., Supt Frombing and Heating Camp Lejeune, N. C.

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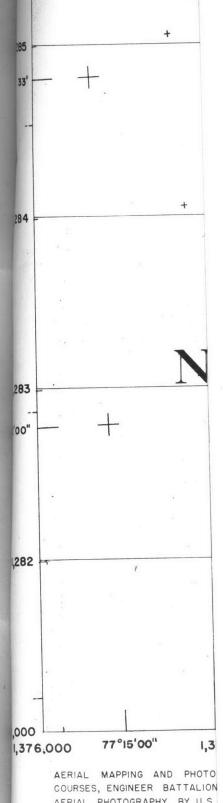
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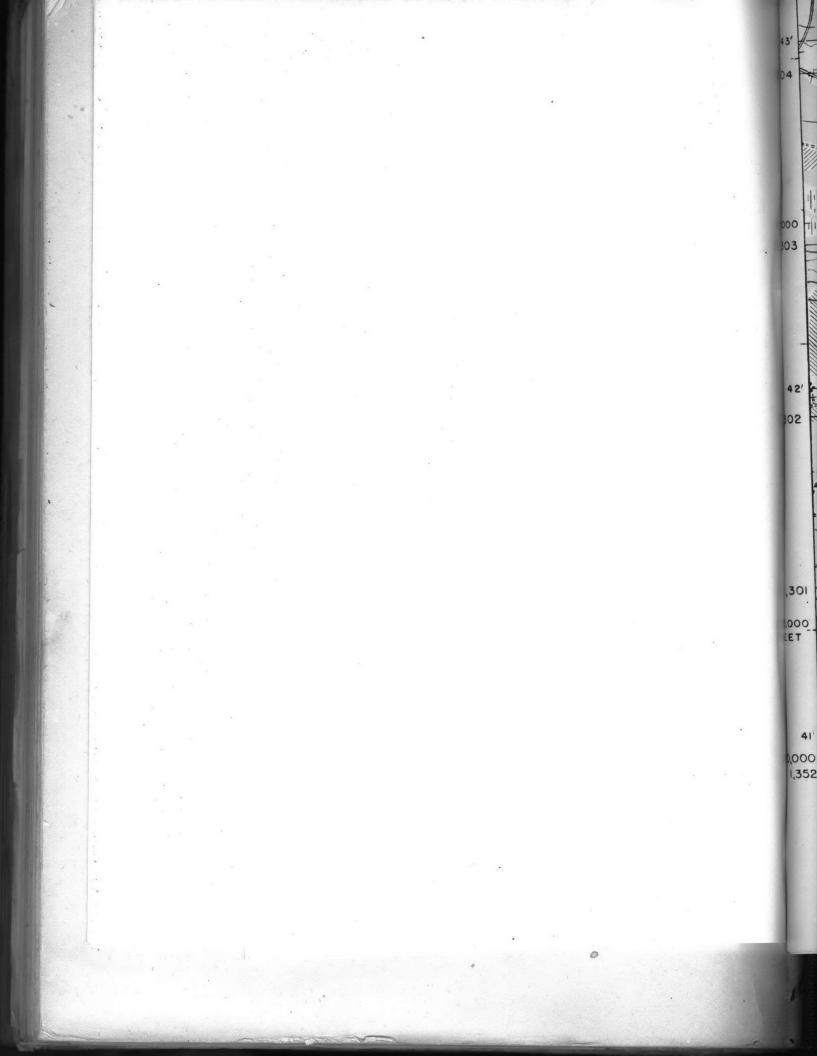
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S. A. Manch, Supt. Prumbing and Heating Camp Lejeune, N. C.



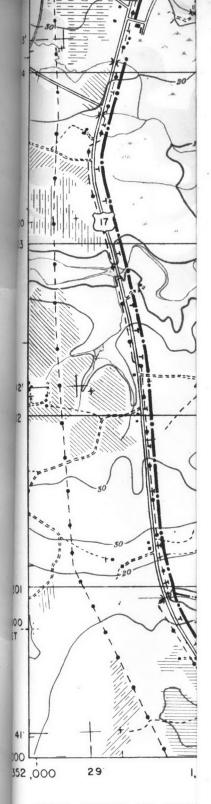
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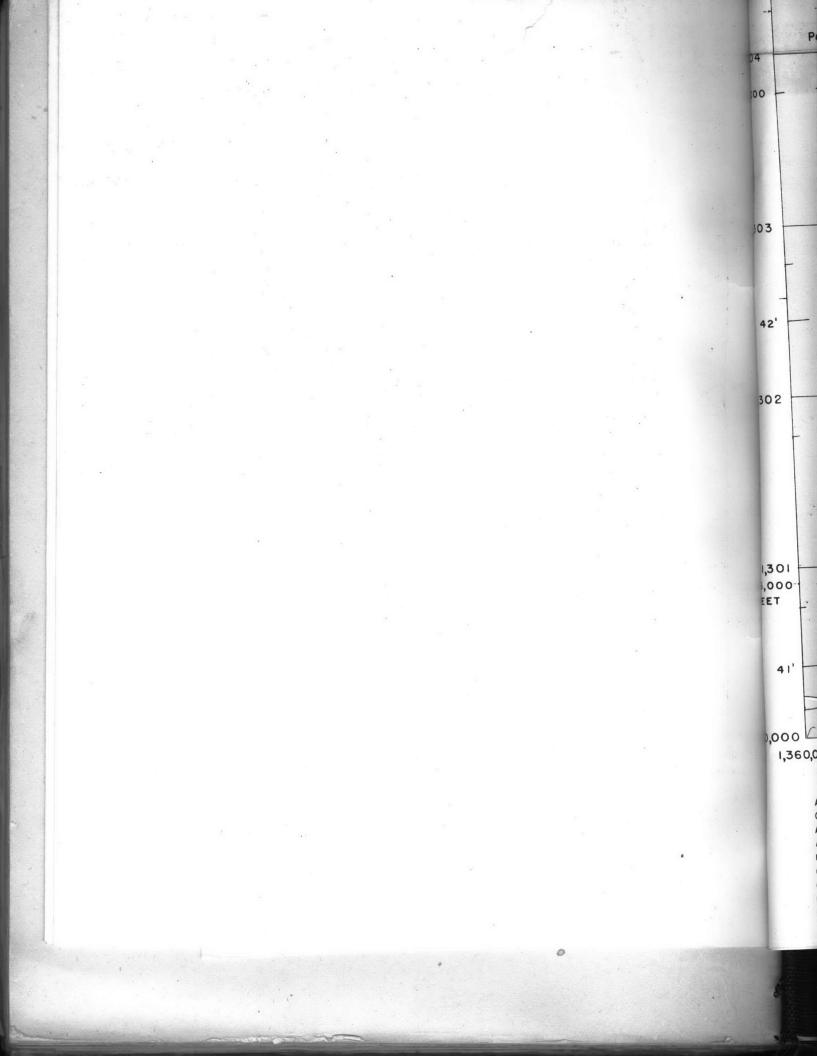
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Camp Lejeune New River, N.C.



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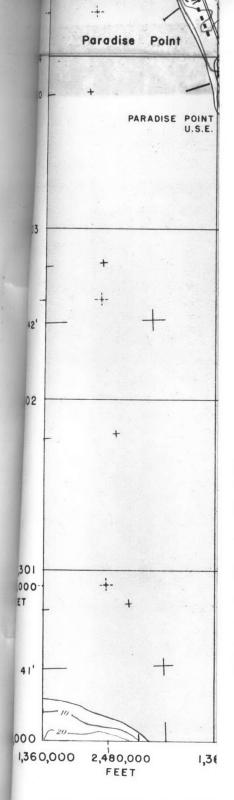
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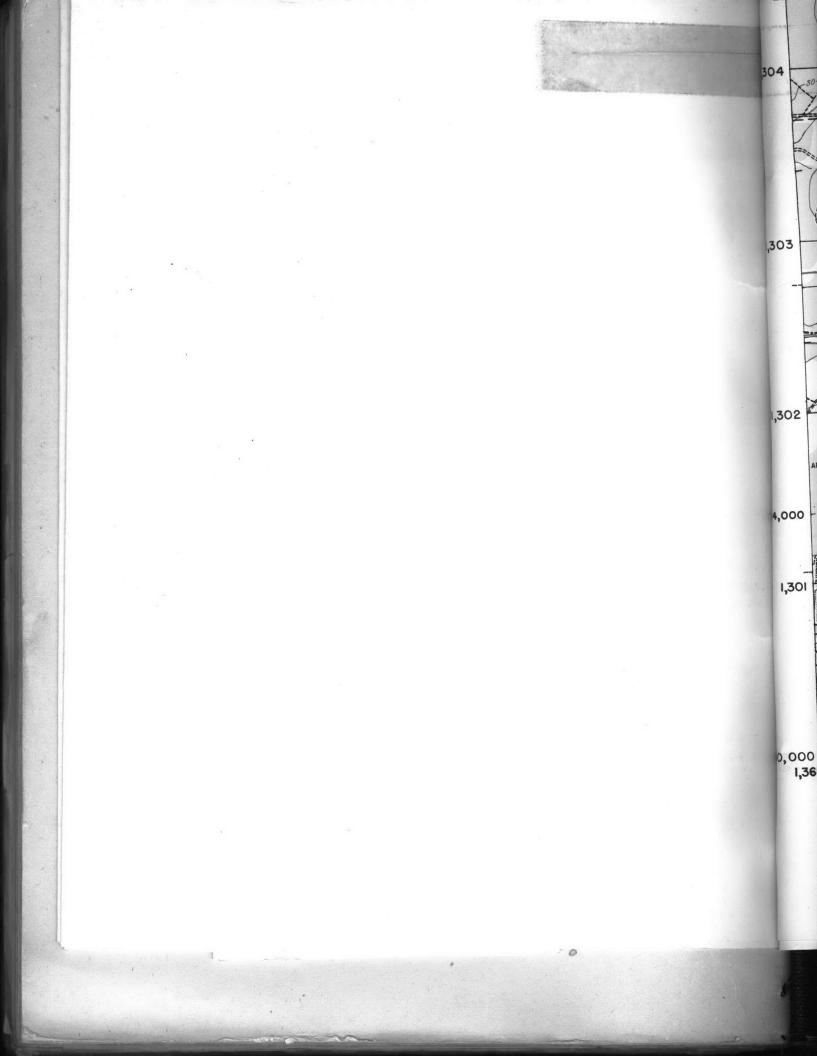
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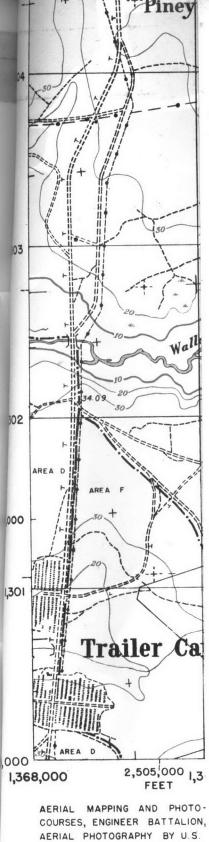
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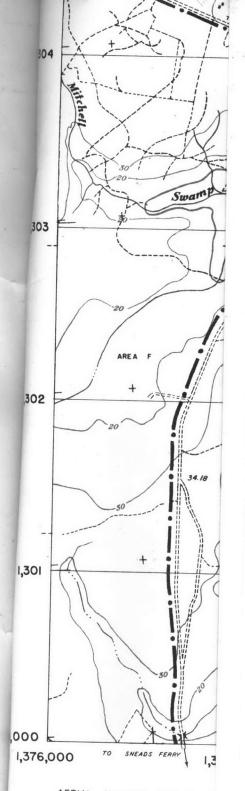
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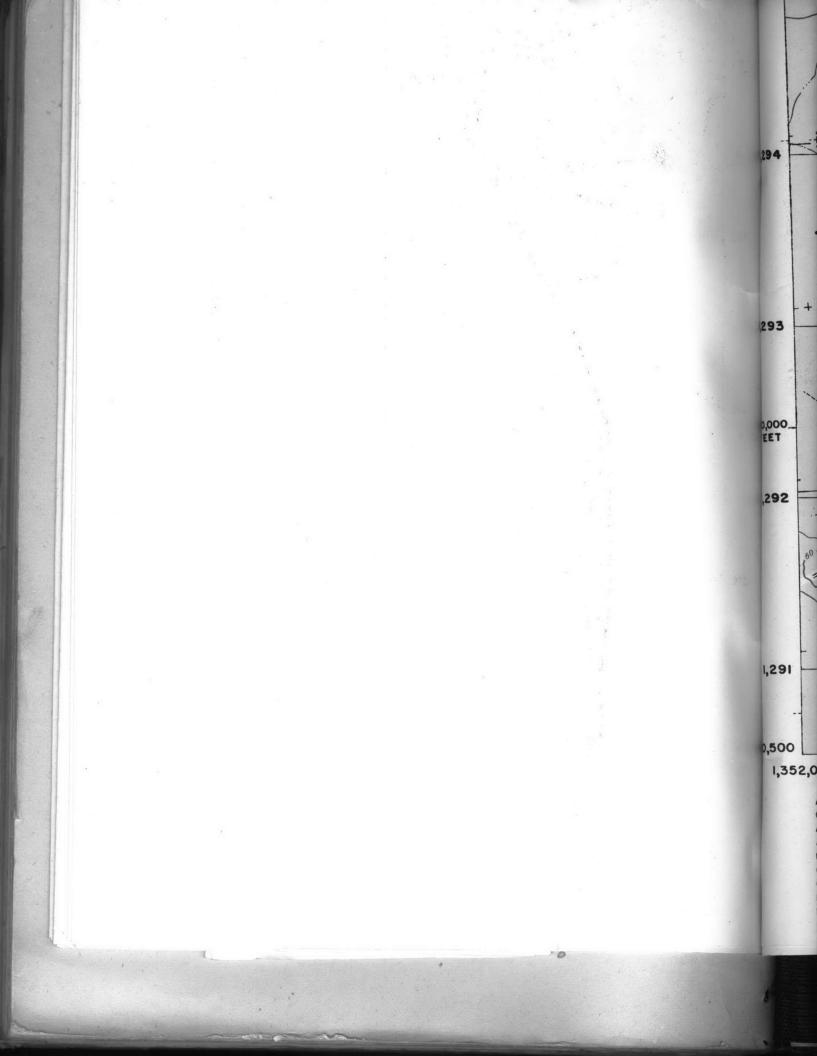
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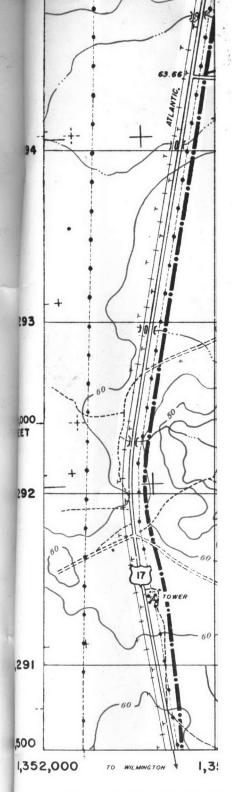
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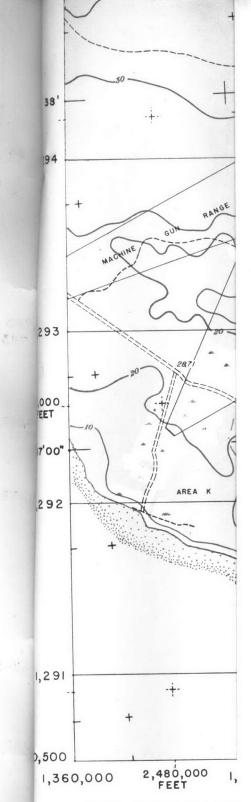
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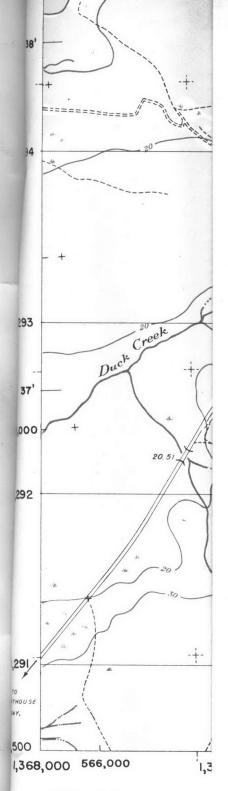
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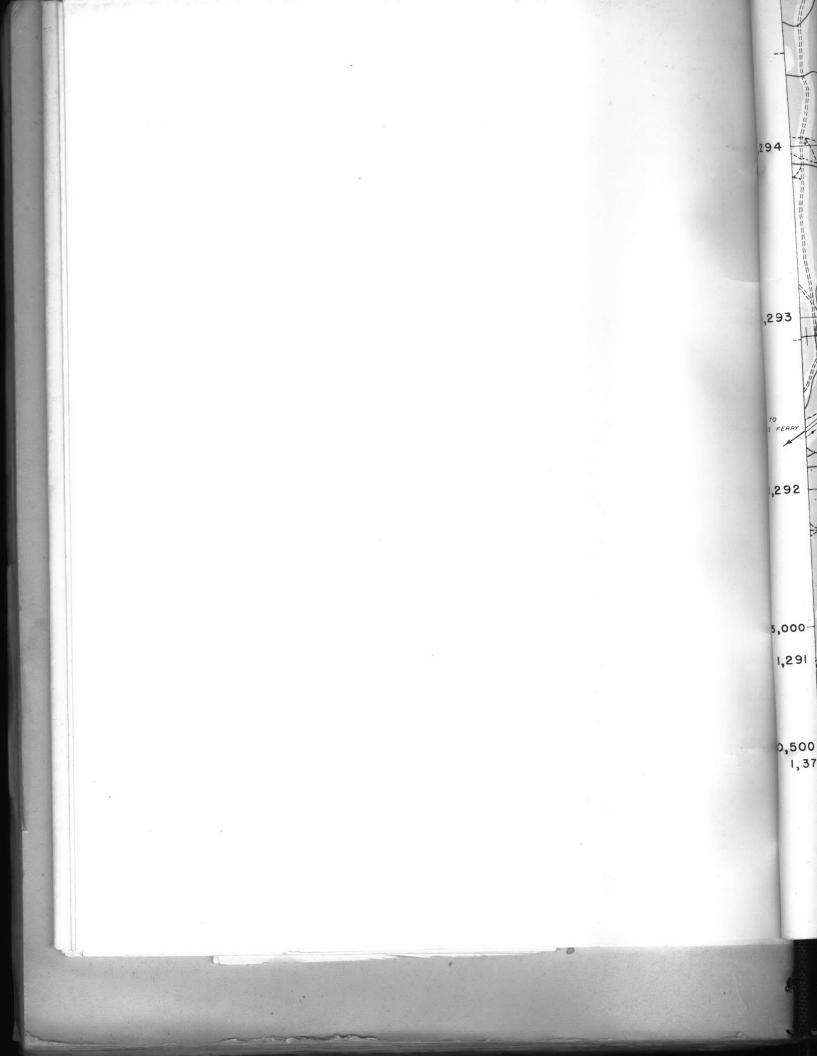
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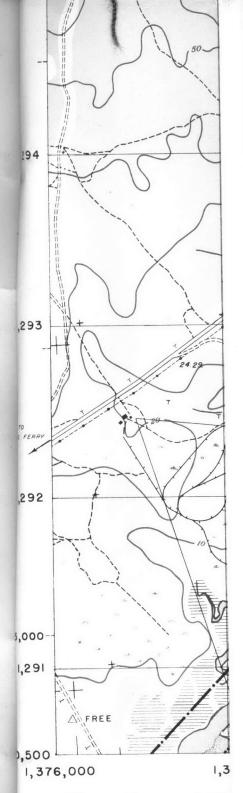
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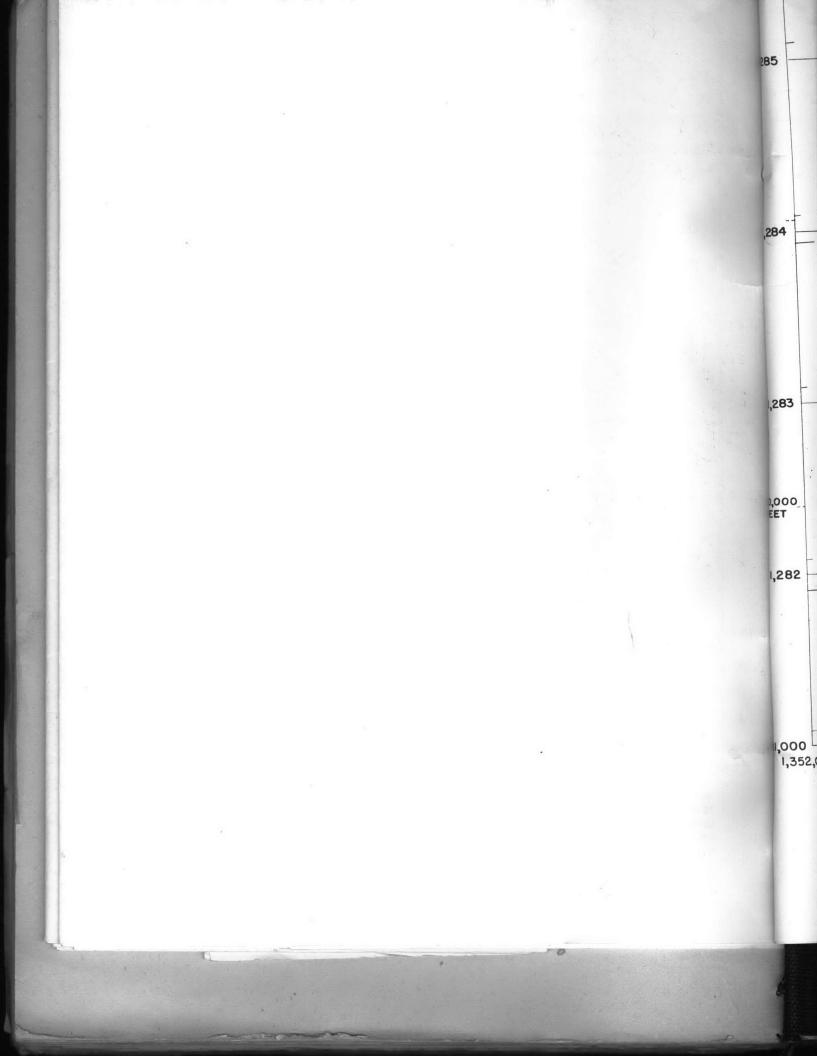
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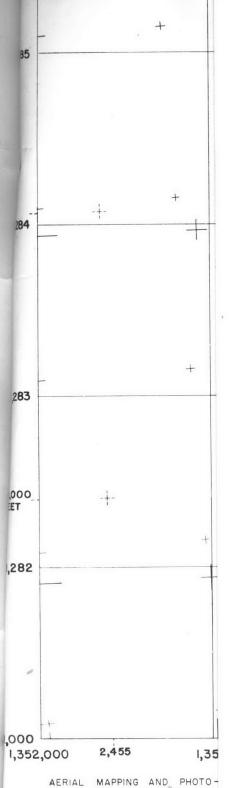
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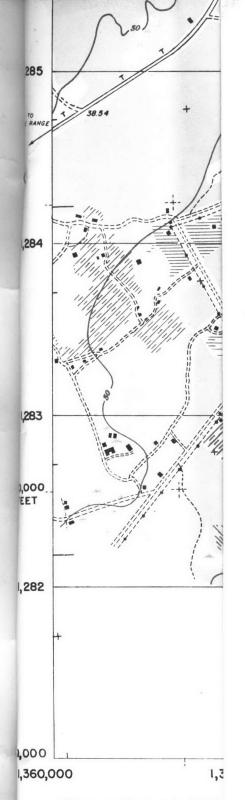
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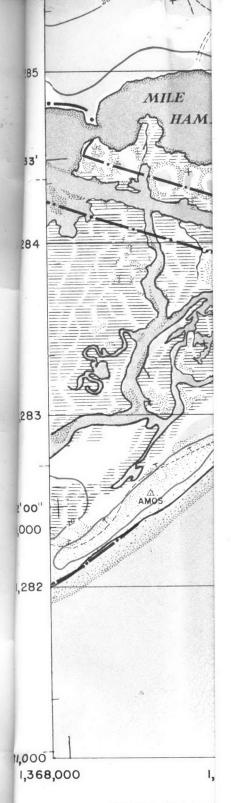
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Camp Lejeune New Diver, N.C.



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Ciffice of the Camp Engineer S. A. Munch, Supt. Flumbing and Heating Camp Lejcune, N. C.

