21E/FET/hp
15 Dec. 1966

Base Maintenance Officer

Director, Utilities Division

Hadnot Point Water Treatment Plant, Bldg. 20, general info on well water resources

1. The plant has a 5,000,000 gallon per day treated water capacity and serves the Industrial Area, U.S. Naval Hospital, Division Area, Paradise Point and Midway Park. This study is primarily directed to the raw water requirement to maintain adequate water supply. In the past four years the average daily requirements were as follows:

FY-63	5,224,000 gallons per day
FY-64	4,744,000 gallons per day
FY-65	4,754,000 gallons per day
FY-66	4,776,000 gallons per day

with peak loads as follows:

FY-63	6,701,000 gallons per day
FY-64	5,816,000 gallons per day
FY-65	5,790,000 gallons per day
FY-66	6,068,000 gallons per day

The present raw water requirement is suplied from 29 wells with a combined maximum delivered rate of 5.5 million gallons per day. There is only 13 percent excess (to allow P.M. of equipment) over the average daily requirements and is 9% low for the peak day requirements. The historical well data is as follows:

1942 - 21 original wells #1 - 21 were put in operation.
Individual pumped capacity totaled 7.3 M.G.D.
Combined maximum delivered to plant 4.8 M.G.D.

1944 - Pumping Test
Individual pumped capacity total 6.4 M.G.D.
Combined maximum delivered to plant 4.8 M.G.D.

1948 - Pumping Test
Individual pumped capacity total 5.5 M.G.D.
Combined maximum delivered to plant 4.8 M.G.D.

1953 - New Wells #24, 25, 26, 27, 28, 29, 30, LCH-1 and LCH-2 added to the system.
Individual pumped capacity total 6.9 M.G.D.
Combined maximum delivered to plant 6.0 M.G.D.
Note: #30 replaced well #7 discarded for warehouse construction.

1954 - New Well #31 added to system.
Individual pumped capacity total 7.18 M.G.D.
Combined maximum delivered to plant 6.25 M.G.D.

1957- New Well #32 added to system.
Individual pumped capacity total 7.57M.G.D.
Combined maximum delivered to plant 6.58 M.G.D.

1957 - Well #4 discontinued due to sand and gravel.
Individual pumped capacity total 7.37 M.G.D.
Combined maximum delivered to plant 6.40 M.G.D.

19599- New Wells #33, 34, 35 and 36 added to system.
Individual pumped capacity total 8.37 M.G.D.
Combined maximum delivered to plant 7.3 M.G.D.

1962 - Well #30 discarded due to sand and gravel.
Individual pumped capacity total 7.14 M.G.D.
Combined maximum delivered to plant 6.08 M.G.D.

1966 - Wells #24, 28, 31 discontinued due to sand and gravel.
Individual pumped capacity total 6.5 M.G.D.
Combined maximum delivered to plant 5.7 M.G.D.

1966 - Well #29 presently pumping sand and will have to be discontinued.
Individual pumped capacity total 6.3 M.G.D.
Combined maximum delivered to plant 5.5 M.G.D.

2. The existing wells are multiple-screen gravel wells that draw water from the more permeable sand and shell rock beds. The yield of some wells have been reduced because of fine sand. Since the sands of the water yielding zones are fine to medium, it is not easy to keep this fine sand out of the well or the gravel pack. As the wells are pumped continuously over long periods of time the fine sands keep collecting in and around the gravel pack resulting in a denser medium for the water to flow through resulting in reduction of yield. The reduction of yield for the well system is approximately 25 percent.

3. In the well data, paragraph (1), several wells were discontinued due to sand and gravel. This results from a slow deterioration of the well screen as a result of selected flow paths through which the abrasive action of fine sand cut large holes in the well screen. The gravel pack around the screen passes through the enlarged hole resulting in an inoperative well.

4. In addition to the depleted well water supply, the base expansion program will impose additional loads on the Hadnot Point plant. The new Force Troops Complex will require water and the heating system for the complex will not return the steam condensate to the steam plant. The estimated additional water demand will be 0.15 million gallons per day.

5. Recommendation:

(a) As an expedient, in addition to planned programs, a special project be developed to provide additional raw water supply by either additional wells or possible rehabilitating the present well system.

(b) The additional water treatment plant proposed for in 1970 MilCon Program to bolster the present Hadnot Point Water Plant be pushed for sooner consideration.

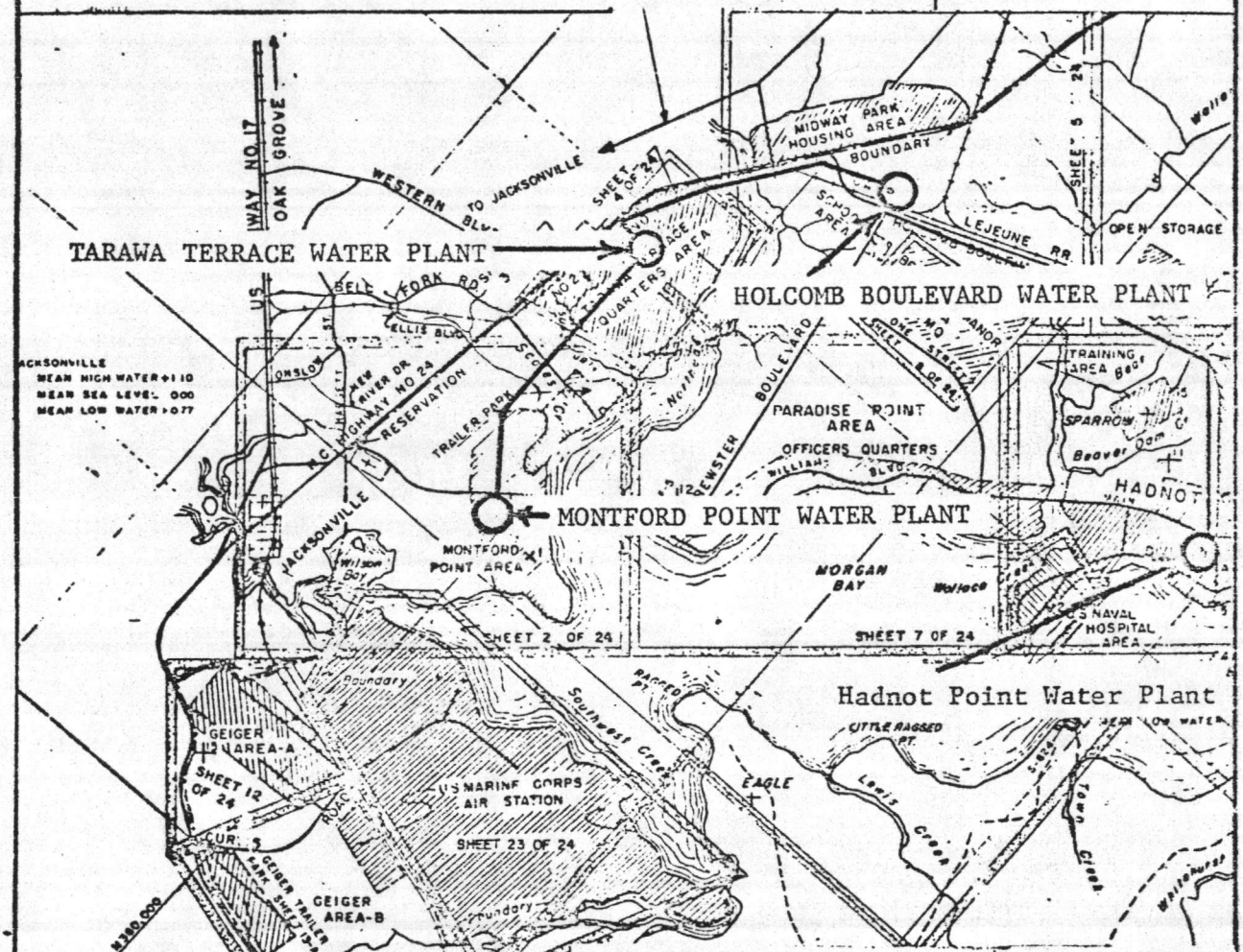
F. E. TEW, JR.

1. COMPONENT	FY 19 84 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
NAVY		1 AUG 1981

3. INSTALLATION AND LOCATION

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE	5. PROJECT NUMBER
EXPANSION OF HOLCOMB BOULEVARD WATER TREATMENT PLANT	P-785



SITE LOCATION MAP P-785

EXPANSION OF HOLCOMB BOULEVARD
WATER TREATMENT PLANT

INDEX SHEET

CAMP LEJEUNE, NORTH CAROLINA

SHOWING CONDITIONS ON

JUNE 30, 1979

INDING ZONES
A LOCATION

4000' 0 4000' 8000' 12000' 16000'

SCALE OF FEET

ENCLOSURE (1)

1. COMPONENT	FY 1984 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
NAVY		1 AUG 1981

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA 28542	EXPANSION OF HOLCOMB BOULEVARD WATER TREATMENT PLANT

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
	841-09	P-785	$6,900

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
TREATMENT PLANT EXPANSION	LS	-	-	1,851
Site Work	LS	-	-	(13)
Building	LS	-	-	(460)
Reservoir	EA	2	295,000	(590)
Treatment Equipment and Pumps	LS	-	-	(334)
Filter Equipment	LS	-	-	(270)
Piping, Mechanical, Electrical	LS	-	-	(184)
WELLS	LS	20	58,000	1,160
RAW WATER LINES	LS	-	-	747
14 inch	LF	6,000	26.26	(158)
12 inch	LF	10,800	25.28	(273)
8 inch	LF	14,500	20.41	(296)
Valves, appurtenances	LS	-	-	(20)
WATER TRUNK MAIN	LS	-	-	1,595
24" line	LF	26,000	55.12	(1,433)
Creek Crossing	LF	400	212.50	(85)
Connections to Existing System	LS	-	-	(53)
Valves	EA	7	3,392	(24)
TRANSMISSION MAIN	LS	-	-	549
16 inch	LF	13,000	32.83	(427)
Special Line	LF	1,000	98.48	(98)
Valves, appurtenances	LS	-	-	(24)
MODIFICATIONS - TARAWA TERRACE	LS	-	-	49
Connections	LS	-	-	(20)
High Speed Pump	LS	-	-	(22)
Electrical	LS	-	-	(7)
DISTRIBUTION	LS	-	-	302
12 inch main	LF	9,800	19.69	(193)
Valves	LS	-	-	(22)
Creek Crossing	LF	200	65.65	(13)
High Speed Pumping Station	EA	2	37,000	(74)
SUBTOTAL				6,253
CONTINGENCY - 5%				312
TOTAL CONTRACT COST				6,565
SUPERVISION, INSPECTION, & OVERHEAD - 5.5%				361
TOTAL REQUEST				6,926
TOTAL REQUEST (ROUNDED)				6,900
EQUIPMENT PROVIDED FROM OTHER APPROPRIATIONS				-

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Expand existing Holcomb Boulevard plant from two MGD to 5 MGD and construct transmission main to existing Tarawa Terrace and Montford Point plants. Add new pump at Tarawa Terrace and twelve inch supply line between Tarawa Terrace and Montford Point. Install 20 wells, raw and finished water

1. COMPONENT	FY 19 84 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
NAVY		1 AUG 1981

3. INSTALLATION AND LOCATION

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE	5. PROJECT NUMBER
EXPANSION OF HOLCOMB BOULEVARD WATER TREATMENT PLANT	P-785

10. DESCRIPTION OF PROPOSED CONSTRUCTION (continued...)
reservoirs. Construct two pumping stations at Holcomb Boulevard to pump water to Tarawa Terrace and Hadnot Point plants, a pumping station at Hadnot Point plant to pump water to Holcomb Boulevard plant via existing twelve inch line, and add 24" trunk main between Holcomb Boulevard plant and Hadnot Point plant.

11. REQUIREMENTS:

Project: Expand/upgrade Holcomb Boulevard water treatment plant, and expand distribution system to Tarawa Terrace plant. Provide pumping capability between Holcomb Boulevard and Hadnot Point plants.

Requirement: To provide adequate water supply and to be in compliance with Safe Drinking Water Act.

Current Situation: The Holcomb Boulevard plant is presently at maximum capacity. New Naval Regional Medical Center currently under construction will add new requirements on this plant. Existing equipment in the Tarawa Terrace plant is in poor condition, resulting in such problems as cementing of filter sands, structural damage to filter bed supports, and short filter runs, and difficulty in pacing lime feed system to incoming flow. The treatment process at the Montford Point plant is not adequate for the raw water due to the presence of iron in excess of 2 ppm. High iron content is causing serious problems in the distribution system. Zeolite softeners are in extremely poor condition.

Impact if Not Provided: Inadequate water supplies at the Holcomb Boulevard plant and further decline in water treatment process at Tarawa Terrace and Montford Point.

VM

1. COMPONENT	FY 19 84 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
NAVY		1 AUG 1981

3. INSTALLATION AND LOCATION

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE	5. PROJECT NUMBER
EXPANSION OF HOLCOMB BOULEVARD WATER TREATMENT PLANT	P-785

SPECIAL CONSIDERATIONS

1. Pollution Prevention, Abatement, and Control: This project will not cause additional air or water pollution.

2. Flood Hazard Evaluation: Requirements of Executive Order No. 11296 (Flood Hazards) are not applicable.

3. Environmental Impact: The project Environmental Impact Assessment (EIA) is being written and will be processed through the local EIA Review Board. No adverse environmental impact is anticipated.

4. Fallout Shelter Construction: Fallout shelter protection is not incorporated in this project.

5. Design for Accessibility of Physically Handicapped Personnel: Provisions for physically handicapped personnel are not required in this project.

6. Use of Air Conditioning: Ceiling "U" factors will be made to conform WITH DOD 4270.1-M.

7. Preservation of Historical Sites and Structures: This project does not directly or indirectly affect a district, site, building, structure, object, or setting which is listed in the National Register or otherwise possesses a significant quality of American history.

8. "New Start" Criteria for Commercial or Industrial Activities Program (OMB Circular A-76): Not applicable.

S/N 0102-LF-001-3915 ☆U.S. GOVERNMENT PRINTING OFFICE: 1978—703-173/34312-1

1. COMPONENT	FY 19 84 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
NAVY		1 AUG 1981

3. INSTALLATION AND LOCATION

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE	5. PROJECT NUMBER
EXPANSION OF HOLCOMB BOULEVARD WATER TREATMENT PLANT	P-785

FACILITY STUDY

1. Project: Provide expansion and upgrade to the Holcomb Boulevard water treatment plant, and new transmission lines to Tarawa Terrace, Montford Point, and Hadnot Point water treatment plants.

2. Current and Planned Future Workload with Regard to this Project: Duration of need is indefinite and the facility will be utilized twenty-four hours daily, seven days per week. There is no projected decrease in the requirements to be performed by the facility.

3. Description of Proposed Construction:

a. Type of Construction:

(1) Permanent water treatment facilities. Storage tanks and slabs of concrete and reinforced concrete. Installation of piping above and below ground, pumps, and electrical wiring are included.

b. Replacement: Project consists of upgrading and expanding existing facilities.

c. Description of Work to be Done:

(1) Primary Facility: Existing Holcomb Boulevard plant has adequate room for expansion. Three new lime contact tanks and three filters will be installed, as well as new raw and treated water reservoirs, and backwash settling facilities.

(a) Support Facilities: Twenty new wells will be required to provide raw water. Transmission and distribution lines and pumping facilities will be required between Tarawa Terrace, Montford Point, Hadnot Point, and Holcomb Boulevard plants. Two pumping stations will be required between Holcomb Boulevard plant and Hadnot Point plant.

(2) Energy Conservation: Energy efficient equipment will be utilized.

(3) Collateral Equipment. Not applicable.

(4) Supporting Facilities: Special piling, foundation, and site improvements, etc.

S/N 0102 LF-001 3915 U.S. GOVERNMENT PRINTING OFFICE 1978—703-173 34312 1

1. COMPONENT	FY 19 84 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
NAVY		1 AUG 1981

3. INSTALLATION AND LOCATION

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE	5. PROJECT NUMBER
EXPANSION OF HOLCOMB BOULEVARD WATER TREATMENT PLANT	P-785

4. Cost Estimate. Area cost factor for Camp Lejeune, NC is 0.95. Cost data for study taken from A&E study prepared by Henry Von Ossen and Associates in April 1979, and escalated to FY-83.

5. Justification for Project and for Scope of Project.

a. Justification for Project:

(1) Project: Proposed facilities are required to provide adequate potable water in the Hadnot Point, Montford Point and Tarawa Terrace areas.

(2) Current Situation: Holcomb Boulevard plant is presently at capacity and will not be able to meet future requirements. Equipment at Tarawa Terrace and Montford Point plants is deteriorated and is incapable of meeting current and future needs.

(3) Impact If Not Provided: Required quantities of potable water meeting the requirements of the Safe Drinking Water Act will not be available for facilities supported by these plants.

b. Justification for Scope of Project: The project is the minimum size facility that can meet the deficiency requirements to support existing and proposed facilities.

6. Equipment Provided from Other Appropriations: Not applicable.

7. Common Support Facilities: Not applicable.

8. Effect on Other Resources: No new personnel will be required to operate the proposed facilities. Additional requirements for electricity, and other supplies create an additional expense of approximately $14,000 per year.

9. Siting of the Project: The facilities will be located in the Hadnot Point, Montford Point, and Tarawa Terrace areas. See enclosure (1).

10. Other Graphic Presentations, including Photographs. None

11. Economic Analysis: No analysis has been made. Requirements are as specified and cannot be met by other means.

12. Environmental Impact. An Environmental Impact Assessment (EIA) is being written and will be processed through the local EIA Review Board. No adverse environmental impact is anticipated.

1. COMPONENT	FY 19 84 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
NAVY		1 AUG 1981

3. INSTALLATION AND LOCATION

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE	5. PROJECT NUMBER
EXPANSION OF HOLCOMB BOULEVARD WATER TREATMENT PLANT	P-785

13. Quantitative Data: Not applicable.

14. Maintenance Facilities: Not applicable.

15. Morale, Welfare, and Recreation Facilities: Not applicable.

16. Relocation Facilities: Not applicable.

17. Storage Facilities: Not applicable.

18. Hazard Identification, Assessment, and Analysis: Not applicable.

1. COMPONENT	FY 19 84 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
NAVY		1 AUG 1980

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA 28542	EXPANSION OF HOLCOMB BOULEVARD WATER TREATMENT PLANT

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
	841-09	P-785	$4,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
TREATMENT PLANT EXPANSION				1,851
SITE WORK	LS	-	-	(13)
BUILDING	LS	-	-	(460)
RESERVOIR	EA	2	295,000	(590)
TREATMENT EQUIPMENT AND PUMPS	LS	-	-	(334)
FILTER EQUIPMENT	LS	-	-	(270)
PIPING, MECHANICAL, ELECTRICAL	LS	-	-	(184)
WELLS	LS	10	55,000	550
RAW WATER LINES	LS	-	-	304
14 INCH	LF	6,000	26.26	(158)
12 INCH	LF	5,800	19.69	(114)
8 INCH	LF	1,500	13.13	(20)
VALVES, APPURTENANCES	LS	-	-	(12)
TRANSMISSION MAIN				549
16 INCH	LF	13,000	32.83	(427)
SPECIAL LINE	LF	1,000	98.48	(98)
VALVES, APPURTENANCES	LS	-	-	(24)
MODIFICATIONS - TARAWA TERRACE				49
CONNECTIONS				(20)
HIGH SPEED PUMP				(22)
ELECTRICAL				(7)
DISTRIBUTION				302
12 INCH MAIN	LF	9,800	19.69	(193)
VALVES				(22)
CREEK CROSSING	LF	200	65.65	(13)
HIGH SPEED PUMPING STATION	EA	2	37,000	(74)
SUBTOTAL				3,605
CONTINGENCY - 5%				180
TOTAL CONTRACT COST				3,785
SUPERVISION, INSPECTION & OVERHEAD - 5.5%				208
TOTAL REQUEST				3,993
TOTAL REQUEST (ROUNDED)				4,000
EQUIPMENT PROVIDED FROM OTHER APPROPRIATIONS				-

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Expand existing Holcomb Boulevard plant from two MGD to 5 MGD and construct transmission main to existing Tarawa Terrace and Montford Point plants. Add new pump at Tarawa Terrace and twelve inch supply line between Tarawa Terrace and Montford Point. Install ten wells, raw and finished water reservoirs. Construct two pumping stations at Holcomb Boulevard to pump water to Tarawa Terrace and Hadnot Point plants, and a pumping station at Hadnot Point plant to pump water to Holcomb Boulevard plant via existing twelve inch line.

(continued on next page)

S/N 0102-LF-001-3910 ☆U. S. Government Printing Office: 1979—603-676/6547 2-1

ENCL (4)

1. COMPONENT	FY 1984 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
NAVY		1 AUG 1980

3. INSTALLATION AND LOCATION

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE	5. PROJECT NUMBER
EXPANSION OF HOLCOMB BOULEVARD WATER TREATMENT PLANT	P-785

11. REQUIREMENTS:

Project: Expand/upgrade Holcomb Boulevard water treatment plant, and expand distribution system to Tarawa Terrace plant. Provide pumping capability between Holcomb Boulevard and Hadnot Point plants.

Requirement: To provide adequate water supply and to be in compliance with Safe Drinking Water Act.

Current Situation: The Holcomb Boulevard plant is presently at maximum capacity. New Naval Regional Medical Center currently under construction will add new requirements on this plant. Existing equipment in the Tarawa Terrace plant is in poor condition, resulting in such problems as cementing of filter sands, structural damage to filter bed supports, and short filter runs, and difficulty in pacing lime feed system to incoming flow. The treatment process at the Montford Point plant is not adequate for the raw water due to the presence of iron in excess of 2 ppm. High iron content is causing serious problems in the distribution system. Zeolite softeners are in extremely poor condition.

Impact if Not Provided: Inadequate water supplies at the Holcomb Boulevard plant and further decline in water treatment process at Tarawa Terrace and Montford Point.

TH

1. COMPONENT	FY 19 84 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
NAVY		1 AUG 1980

3. INSTALLATION AND LOCATION

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE	5. PROJECT NUMBER
EXPANSION OF HOLCOMB BOULEVARD WATER TREATMENT PLANT	P-785

SPECIAL CONSIDERATIONS

1. Pollution Prevention, Abatement, and Control: This project will not cause additional air or water pollution.

2. Flood Hazard Evaluation: Requirements of Executive Order No. 11296 (Flood Hazards) are not applicable.

3. Environmental Impact: The project Environmental Impact Assessment has been made, reviewed, and where required, the design concepts give consideration to eliminating adverse environmental effects consistent with applicable directives.

4. Fallout Shelter Construction: Fallout shelter protection is incorporated in the facility.

5. Design for Accessibility of Physically Handicapped Personnel: Provisions for physically handicapped personnel are not required in this facility.

6. Use of Air Conditioning: Ceiling "U" factors will be made to conform with DOD 4270.1-M.

7. Preservation of Historical Sites and Structures: The project facility does not directly or indirectly affect a district, site, building, structure, object, or setting which is listed in the National Register or otherwise possesses a significant quality of American history.

S/N 0102-LF-001-3919

☆U.S. GOVERNMENT PRINTING OFFICE: 1978—703-173/34312-1

1. COMPONENT	FY 1984 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
NAVY		1 AUG 1980

3. INSTALLATION AND LOCATION
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE	5. PROJECT NUMBER
EXPANSION OF HOLCOMB BOULEVARD WATER TREATMENT PLANT	P-785

FACILITY STUDY

1. Project: Provide expansion and upgrade to the Holcomb Boulevard water treatment plant, and new transmission lines to Tarawa Terrace and Montford Point water treatment plants.

2. Current and Planned Future Workload with Regard to this Project: Duration of need is indefinite and the facility will be utilized twenty-four hours daily, seven days per week. There is no projected decrease in the requirements to be performed by the facility.

3. Description of Proposed Construction:

a. Type of Construction:

(1) Permanent water treatment facilities. Storage tanks and slabs of concrete and reinforced concrete. Installation of piping above and below ground, pumps, and electrical wiring are included.

b. Replacement: Project consists of upgrading and expanding existing facilities.

c. Description of Work to be Done:

(1) Primary Facility: Existing Holcomb Boulevard plant has adequate room for expansion. Three new lime contact tanks and three filters will be installed, as well as new raw and treated water reservoirs, and backwash settling facilities.

(a) Support Facilities: Ten new wells will be required to provide raw water. Transmission and distribution lines and pumping facilities will be required between Tarawa Terrace, Montford Point, and Holcomb Boulevard plants. Two pumping stations will be required between Holcomb Boulevard plant and Hadnot Point plant.

(2) Energy Conservation: Energy efficient equipment will be utilized.

(3) Supporting Facilities: Special piling, foundation, and site improvements, etc..

4. Cost Estimate: Area cost factor for Camp Lejeune, N.C. is 0.95. Cost data for study taken from A & E study prepared by Henry Von Oesen and Associates in April 1979, escalated to FY-84.

5. Justification for Project and for Scope of Project:

S/N 0102-LF-001-3913 U.S. GOVERNMENT PRINTING OFFICE: 1978—703-173/34312-1

1. COMPONENT	FY 1984 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
NAVY		1 AUG 1980

3. INSTALLATION AND LOCATION
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE	5. PROJECT NUMBER
EXPANSION OF HOLCOMB BOULEVARD WATER TREATMENT PLANT	P-785

a. Justification for Project:

(1) Project: Proposed facilities are required to provide adequate potable water in the Hadnot Point, Montford Point and Tarawa Terrace areas.

(2) Current Situation: Holcomb Boulevard plant is presently at capacity and will not be able to meet future requirements. Equipment at Tarawa Terrace and Montford Point plants is deteriorated and is incapable of meeting current and future needs.

(3) Impact If Not Provided: Required quantities of potable water meeting the requirements of the Safe Drinking Water Act will not be available for facilities supported by these plants.

b. Justification for Scope of Project: The project is the minimum size facility that can meet the deficiency requirements to support existing and proposed facilities.

6. Equipment Provided from Other Appropriations: Not applicable.

7. Common Support Facilities: Not applicable.

8. Effect on Other Resources: No new personnel will be required to operate the proposed facilities. Additional requirements for electricity, and other supplies create an additional expense of approximately $14,000 per year.

9. Siting of the Project: The facilities will be located in the Hadnot Point, Montford Point, and Tarawa Terrace areas. See enclosure (1).

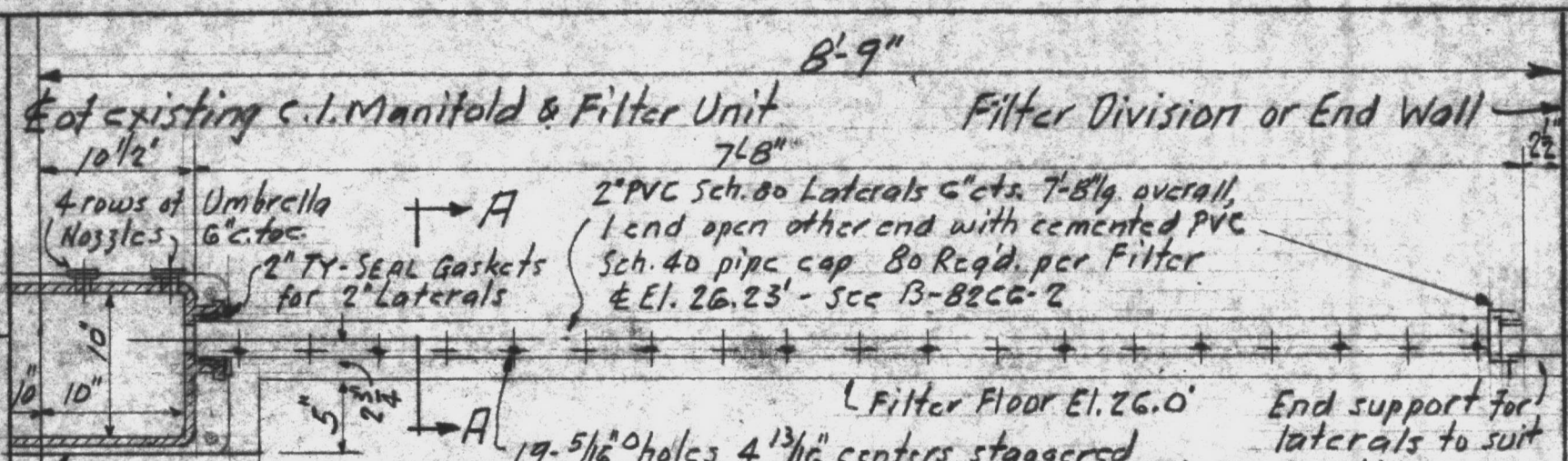
10. Other Graphic Presentations, including Photographs. None

11. Economic Analysis: No analysis has been made. Requirements are as specified and cannot be met by other means.

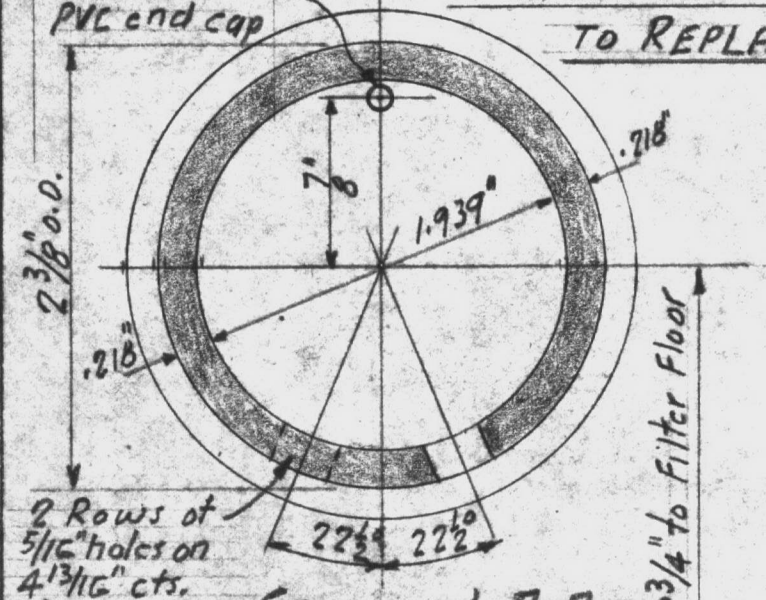
12. Environmental Impact. An Environmental Impact Assessment of the area has been made, and it has been determined that a positive impact will be made by providing required quantities of potable water. No highly controversial elements exist.

S/N 0102-LF-001 2315 U.S. GOVERNMENT PRINTING OFFICE: 1978—703-173-3-4312-1

4,011,811



ASSEMBLY - NEW LATERALS TO EXISTING MANIFOLD TO REPLACE EXISTING 2" C.I. LATERALS IN 5 FILTERS



SECTION A-A

OFFICE OF THE
OFFICER IN CHARGE OF CONSTRUCTION
CAMP LEJEUNE, NORTH CAROLINA

APPROVED

SUBJECT TO CONTRACT REQUIREMENTS

CONTRACT NO. 0910 TP C. D.

DATE JUN 25 1975

R. A. FARNST
CDR, CEC, USN
Officer in Charge of Construction

Reference NAVFAC Dwgs. 4011811 & 4011812

FIGURED
DRAWN P.E.
CHECKED
APPROVED
DATE 6-9-75
NO. B-82661

ROBERTS FILTER MANUFACTURING CO., DARBY, PA.

NEW 2" PVC SCH. 80 LATERALS

Roberts Cont. 1778

Camp Lejeune, N.C.

B-20 - BOOSTER PUMPS

CHECKED BOX APPLIES: [X] ORDER FOR SUPPLIES OR SERVICES

[ ] REQUEST FOR QUOTATIONS NO. — RETURN COPY(IES) OF THIS QUOTE BY (THIS IS NOT AN ORDER. See DD Form 1155r)

PAGE 1 OF 2

5. CERTIFIED FOR NATIONAL DEFENSE UNDER DMS REG 1 DO

1. CONTRACT/PURCH ORDER NO.	2. DELIVERY ORDER NO.	3. DATE OF ORDER	4. REQUISITION/PURCH REQUEST NO.
M67001-78-M-5884		78 AUG 08	SEE SCHEDULE

6. ISSUED BY: CODE M67001
J.A. HARRIS/919-451-2186/mr
Purchasing & Contracting Office
Bldg 1211, Marine Corps Base
Camp Lejeune, N. Carolina 28542

7. ADMINISTERED BY: (If other than 6) CODE

8. DELIVERY FOB: [ ] DESTINATION [X] OTHER (See Schedule if other)

9. CONTRACTOR/QUOTER CODE FACILITY CODE

NAME AND ADDRESS
The George Seelke Co.
3688 Clearview Avenue
Atlanta, GA 30340

10. DELIVER TO FOB POINT BY:
78 SEP 29

11. CHECK IF SMALL BUSINESS MBE [X]

12. DISCOUNT TERMS For Material Only
1/2% - 10 DAYS; NET - 30 DAYS

13. MAIL INVOICES TO: (In sextuplicate)
SAME AS BLOCK #14

14. SHIP TO: CODE
Freight Traffic Branch
Bldg 1011, Camp Lejeune, N. Carolina 28542
78-M-5884

15. PAYMENT WILL BE MADE BY: CODE M67001
Base Disbursing Officer
MCB, Camp Lejeune, North Carolina 28542

MARK ALL PACKAGES AND PAPERS WITH CONTRACT OR ORDER NUMBER

16. TYPE OF ORDER
DELIVERY [ ]
PURCHASE [X]

This delivery order is subject to instructions contained on this side of form only and is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract.

Reference your TELEQUOTE, 78 AUG 08, furnish the following on terms specified herein, including; for U. S. purchases, General Provisions of Purchase Order on DD Form 1155r (Except CLAUSE NO. 13 APPLIES ONLY IF THIS BOX [ ] IS CHECKED, and NO. 15 IF THIS BOX [ ] IS CHECKED); special provisions ; and delivery as indicated. This purchase is negotiated under authority of 10 USC 2304(a)(3) or as specified in the schedule if within the U. S., its possessions or Puerto Rico; if otherwise, under 2304(a)(6).

[ ] If checked, Additional General Provisions apply; Supplier shall sign "Acceptance" on DD Form 1155r and return copies.

17. ACCOUNTING AND APPROPRIATION DATA – ACCOUNTING CLASSIFICATION (REV. 7-65)

ITEM NO.	APPROPRIATION SYMBOL AND SUBHEAD	OBJECT CLASS	BUREAU CONT. NO.	SUB-ALLOT.	AUTH'N ACCT'G ACTY	TRANS. TYPE	PROPERTY ACCT'G ACTY	COUNTRY	COST CODE	AMOUNT
ALL	1781106.2720	000	67001	0	067001	2D	000000		82349892383T	$8,892.00 PLUS TRANS

18. ITEM NO.	19. SCHEDULE OF SUPPLIES/SERVICES	20. QUANTITY ORDERED/ ACCEPTED*	21. UNIT	22. UNIT PRICE	23. AMOUNT
	PRIORITY 14 THIS IS A CONFIRMING ORDER...Confirms telephonic order of Mr. Yountz by our Mr. Harris. DO NOT DUPLICATE. same number and date given your				
1	ALL MML999 M93058-8150-W016 4610-00-C99-0594, Pump, Vertical, without discharge, head and electric motor replacing Johnston Serial #JQ-3865, Type 20CC, 1 Stage, 12 inches, 2800 GPM, 60 foot TDH, Total Length 12'6"	1	EA	4,446.00	4,446.00
	Inquiries regarding this order should be made to Mrs. Batchelor. Telephone 919-451-5065				

* If quantity accepted by the Government is same as quantity ordered, indicate by ✓ mark. If different, enter actual quantity accepted below quantity ordered and encircle.

24. UNITED STATES OF AMERICA
BY: IONE O. HOLSONBACK
PURCHASING ~~CONTRACTING~~/ORDERING OFFICER

25. TOTAL $8,892.00
29. DIFFERENCES

26. QUANTITY IN COLUMN 20 HAS BEEN:
[ ] RECEIVED [ ] INSPECTED [ ] ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED
Date (Signature of authorized Government representative)

27. SHIP. NO. [ ] FINAL [ ] PARTIAL
31. PAYMENT [ ] COMPLETE [ ] PARTIAL [ ] FINAL

28. D.O. VOUCHER NO.
32. PAID BY
67001-
SYM #.5190
MCB CLNC

30. INITIALS
33. AMOUNT VERIFIED CORRECT FOR
34. CHECK NUMBER
35. BILL OF LADING NO.

36. I CERTIFY that this account is correct and proper for payment
T. R. DEDMOND, Fiscal Acctg. Supv.
(Signature and title of Certifying Officer)

37. RECEIVED AT	38. RECEIVED BY	39. DATE RECEIVED	40. TOTAL CONTAINERS	41. S/R ACCOUNT NUMBER	42. S/R VOUCHER NO.

DD FORM 1 AUG 66 1155 (NAVY) (Overprint 1/70)

Form Approved by Comptroller General, U. S., 27 May 66
Exception to SF 18 under $2,500 Approved by Budget Bureau Oct 66

THIS PARAGRAPH APPLIES ONLY TO QUOTATIONS SUBMITTED:

Supplies are of domestic origin unless otherwise indicated by quoter. The Government reserves the right to consider quotations or modifications thereof received after the date indicated should such action be in the interest of the Government. This is a request for information and quotations furnished are not offers. When quoting, complete blocks 11, 12, 22, 23, 25. If you are unable to quote, please advise. This request does not commit the Government to pay any cost incurred in preparation or the submission of this quotation or to procure or contract for supplies or services.

GENERAL PROVISIONS

1. INSPECTION AND ACCEPTANCE—Inspection and acceptance will be at destination, unless otherwise provided. Until delivery and acceptance, and after any rejections, risk of loss will be on the Contractor unless loss results from negligence of the United States Government. Notwithstanding the requirements for any Government inspection and test contained in specifications applicable to this contract, except where specialized inspections or tests are specified for performance solely by the Government, the Contractor shall perform or have performed the inspections and tests required to substantiate that the supplies and services provided under the contract conform to the drawings, specifications and contract requirements listed herein, including if applicable the technical requirements for the manufacturers' part numbers specified herein.

2. VARIATION IN QUANTITY—No variation in the quantity of any item called for by this contract will be accepted unless such variation has been caused by conditions of loading, shipping, or packing, or allowances in manufacturing processes, and then only to the extent, if any, specified elsewhere in this contract.

3. PAYMENTS—Invoices shall be submitted in quadruplicate *(one copy shall be marked "Original")* unless otherwise specified, and shall contain the following information: Contract or Order number, Item number, contract description of supplies or services, sizes, quantities, unit prices and extended totals. Bill of lading number and weight of shipment will be shown for shipments on Government Bills of Lading. Unless otherwise specified, payment will be made on partial deliveries accepted by the Government when the amount due on such deliveries so warrants.

4. DISCOUNTS—In connection with any discount offered, time will be computed from date of delivery of the supplies to carrier when acceptance is at the point of origin, or from date of delivery at destination or port of embarkation when delivery and acceptance are at either of these points, or from the date the correct invoice or voucher is received in the office specified by the Government, if the latter is later than date of delivery. Payment is deemed to be made for the purpose of earning the discount on the date of mailing of the Government check.

5. DISPUTES—(a) Except as otherwise provided in this contract, any dispute concerning a question of fact arising under this contract which is not disposed of by agreement shall be decided by the Contracting Officer, who shall mail or otherwise furnish a copy thereof to the Contractor. This decision shall be final and conclusive unless, within 30 days from the date of receipt of such copy, the Contractor mails or otherwise furnishes to the Contracting Officer a written appeal addressed to the Secretary. The decision of the Secretary or his duly authorized representative for the determination of such appeals shall be final and conclusive unless determined by a court of competent jurisdiction to have been fraudulent, or capricious, or arbitrary, or so grossly erroneous as necessarily to imply bad faith, or not supported by substantial evidence. The Contractor shall be afforded an opportunity to be heard and to offer evidence in support of his appeal. Pending final decision of a dispute hereunder, the Contractor shall proceed diligently with the performance of the contract and in accordance with the Contracting Officer's decision. (b) This "Disputes" clause does not preclude consideration of law questions in connection with decisions provided for in (a) above, provided, that nothing in this contract shall be construed as making final the decision of any administrative official, representative, or board on a quesiton of law.

6. FOREIGN SUPPLIES—This contract is subject to the Buy American Act *(41 U.S.C. 10a-d)* as implemented by Executive Order 10582 of December 17, 1954, and any restrictions in appropriation acts on the procurement of foreign supplies.

7. CONVICT LABOR—The Contractor agrees not to employ for work under this contract any person undergoing sentence of imprisonment at hard labor.

8. OFFICIALS NOT TO BENEFIT – No member of or Delegate to Congress or resident commissioner, shall be admitted to any share or part of this contract, or to any benefit that may arise therefrom, but this provision shall not be construed to extend to this contract if made with a corporation for its general benefit.

9. CONVENANT AGAINST CONTINGENT FEES The Contractor warrants that no person or selling agency has been employed or retained to solicit or secure this contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, excepting bona fide employees or bonafide established commercial or selling agencies maintained by the Contractor for the purpose of securing business. For breach or violation of this warranty the Government shall have the right to annul this contract without liability or in its discretion to deduct from the contract price or consideration or otherwise recover, the full amount of such commission, percentage, brokerage or contingent fee.

10. GRATUITIES – (a) The Government may, by written notice to the Contractor, terminate the right of the Contractor to proceed under this contract if it is found after notice and hearing, by the Secretary or his duly authorized representative, that gratuities *(in the form of entertainment, gifts or otherwise)* were offered or given by the Contractor, or any agent or representative of the Contractor, to any officer or employee of the Government with a view toward securing a contract or securing favorable treatment with respect to the awarding or amending, or the making of any determinations with respect to the performing of such contract, provided, that the existence of the facts upon which the Secretary or his duly authorized representative make such findings shall be in issue and may be reviewed in any competent court. (b) In the event this contract is terminated as provided in paragraph (a) hereof the Government shall be entitled (i) to pursue the same remedies against the Contractor as it could pursue in the event of a breach of the contract by the Contractor and (ii) as a penalty in addition to any other damages to which it may be entitled by law to exemplary damages in an amount *(as determined by the Secretary or his duly authorized representative)* which shall be not less than three nor more than ten times the costs incurred by the Contractor in providing any such gratuities to any such officer or employee. (c) The rights and remedies of the Government provided in this clause shall not be exclusive and are in addition to any other rights and remedies provided by law or under this contract.

11. RENEGOTIATION This contract, and any subcontract hereunder, is subject to the Renegotiation Act of 1951, as amended *(50 U.S.C. App. 1211 et seq.)* and shall be deemed to contain all the provisions required by Section 104 thereof, and is subject to any subsequent act of Congress providing for the renegotiation of contracts.

12. CONDITION FOR ASSIGNMENT This Purchase Order may not be assigned pursuant to the Assignment of Claims Act of 1940, as amended *(31 U.S.C. 203, 41 U.S.C. 15)*, unless or until the supplier has been requested and has accepted this order by executing the Acceptance hereon.

13. COMMERCIAL WARRANTY The Contractor agrees that the supplies or services furnished under this contract shall be covered by the most favorable commercial warranties the Contractor gives to any customer for such supplies or services and that the rights and remedies provided herein are in addition to and do not limit any rights afforded to the Government by any other clause of this contract.

14. PRIORITIES, ALLOCATIONS AND ALLOTMENTS DEFENSE MATERIALS SYSTEM – When the amount of the order is $500 or more the Contractor shall follow the provisions of DMS Reg. 1 and all other applicable regulations and orders of the Business and Defense Services Administration in obtaining controlled materials and other products and materials needed to fill this order.

15. FAST PAYMENT PROCEDURE –

(a) General. This is a fast payment order. Invoices will be paid on the basis of the Contractor's delivery to a post office, common carrier, or, in shipment by other means, to the point of first receipt by the Government.

(b) Responsibility for Supplies. Title to the supplies shall vest in the Government upon delivery to a post office or common carrier for shipment to the specified destination. If shipment is by means other than post office or common carrier, title to the supplies shall vest in the Government upon delivery to the point of first receipt by the Government. Notwithstanding any other provision of the purchase order, the Contractor shall assume all responsibility and risk of loss for supplies (i) not received at destination, (ii) damaged in transit, or (iii) not conforming to purchase requirements. The Contractor shall either replace, repair, or correct such supplies promptly at his expense, *provided* instructions to do so are furnished by the Contracting Officer within ninety (90) days from the date title to the supplies vests in the Government.

(c) Preparation of Invoice.

(1) Upon delivery of supplies to a post office, common carrier, or in shipments by other means, the point of first receipt by the Government, the Contractor shall prepare an invoice in accordance with Clause 3 of the General Provisions of Purchase Order, except that invoices under a blanket purchase agreement shall be prepared in accordance with the provisions of the agreement. In shipments by either post office or common carrier, the Contractor shall either (A) cite on this invoice the date of shipment, name and address of carrier, bill of lading number or other shipment document number, or (B) attach copies of such documents to his invoice as evidence of shipment. In addition the invoice shall be prominently marked "Fast Pay." In case of delivery by other than post office or common carrier, a receipted copy of the Contractor's delivery document shall be attached to the invoice as evidence of delivery.

(2) If the purchase price excludes the cost of transportation, the Contractor shall enter the prepaid shipping cost on the invoice as a separate item. The cost of parcel post insurance will not be paid by the Government. If transportation charges are separately stated on the invoice, the Contractor agrees to retain related paid freight bills or other transportation billings paid separately for a period of three years and to furnish such bills to the Government when requested for audit purposes.

(3) In the event this order requires the preparation of a Material Inspection and Receiving Report (DD Form 250), the contractor has the option of either preparing the DD Form 250 or including the following information on the invoice, in addition to that required in (c)(1) above: (A) a statement in prominent letters "NO DD 250 PREPARED"; (B) shipment number; (C) mode of shipment; and (D) at line item level, (i) National Stock Number and/or Manufacturer's part number, (ii) unit of measure, (iii) Ship-To-Point, (iv) Mark-For-Point if in contract, and (v) MILSTRIP document number if in contract.

(d) Certification of Invoice. The Contractor agrees that the submission of an invoice to the Government for payment is a certification that the supplies for which the Government is being billed have been shipped or delivered in accordance with shipping instructions issued by the ordering officer, in the quantities shown on the invoice, and that such supplies are in the quantity and of the quality designated by the cited purchase order.

OUTER SHIPPING CONTAINERS SHALL BE MARKED "FAST PAY"

16. *(This clause applies if this contract is for services and is not exempted by applicable regulations of the Department of Labor.)*

SERVICE CONTRACT ACT OF 1965 – Except to the extent that an exemption, variation, or tolerance would apply pursuant to 29 CFR 4.6 if this were a contract in excess of $2,500, the Contractor and any subcontractor hereunder shall pay all of his employees engaged in performing work on the contract not less than the minimum wage specified under section 6(a)(1) of the Fair Labor Standards Act of 1938, as amended ($1.60 per hour). However, in cases where section 6(e)(2) of the Fair Labor Standards Act of 1938 is applicable, the rates specified therein will apply. All regulations and interpretations of the Service Contract Act of 1965 expressed in 29 CFR Part 4 are hereby incorporated by reference in this contract.

ADDITIONAL GENERAL PROVISIONS

17. CHANGES– The Contracting Officer may at any time, by a written order, and without notice to the sureties, make changes, within the general scope of this contract, in (i) drawings, designs, or specifications, where the supplies to be furnished are to be specially manufactured for the Government in accordance therewith; (ii) method of shipment or packing; and (iii) place of delivery. If any such change causes an increase or decrease in the cost of, or the time required for performance of this contract, whether changed or not changed by any such order, an equitable adjustment shall be made by written modification of this contract. Any claim by the Contractor for adjustment under this clause must be asserted within 30 days from the date of receipt by the Contractor of the notification of change provided that the Contracting Officer, if he decides that the facts justify such action, may receive and act upon any such claim if asserted prior to final payment, under this contract. Failure to agree to any adjustment shall be a dispute concerning a question of fact within the meaning of the clause of this contract entitled "Disputes." However, nothing in this clause shall excuse the Contractor from proceeding with the contract as changed.

18. TERMINATION FOR DEFAULT – The Contracting Officer, by written notice, may terminate this contract, in whole or in part, for failure of the Contractor to perform any of the provisions hereof. In such event, the Contractor shall be liable for damages, including the excess cost of reprocuring similar supplies or services; provided that, if (i) it is determined for any reason that the Contractor was not in default or (ii) the Contractor's failure to perform is without his and his subcontractor's control, fault or negligence, the termination shall be deemed to be a termination for convenience under paragraph 19. As used in this provision the term "subcontractor'. and "subcontractors" means subcontractors at any tier.

19. TERMINATION FOR CONVENIENCE – The Contracting Officer, by written notice, may terminate this contract, in whole or in part, when it is in the best interest of the Government. If this contract is for supplies and is so terminated, the Contractor shall be compensated in accordance with Section VIII of the Armed Services Procurement Regulation, in effect on this contract's date. To the extent that this contract is for services and is so terminated, the Government shall be liable only for payment in accordance with the payment provisions of this contract for services rendered prior to the effective date of termination.

20. ASSIGNMENT OF CLAIMS – Claims for monies due or to become due under this contract shall be assigned only pursuant to the Assignment of Claims Act of 1940, as amended *(31 U.S.C. 203, 41 U.S.C. 15)*. However, payments to an assignee of monies under this contract shall not, to the extent provided in said Act, as amended, be subject to reduction or set-off. *(See Clause 12.)*.

ACCEPTANCE

The Contractor hereby accepts the offer represented by the numbered purchase order as it may previously have been or is now modified, subject to all of the terms and conditions set forth, and agrees to perform the same.

NAME OF CONTRACTOR	SIGNATURE	TYPED NAME AND TITLE	DATE SIGNED

STANDARD FORM 36, JULY 1966 GENERAL SERVICES ADMINISTRATION FED. PROC. REG. (41 CFR) 1-16.101	**CONTINUATION SHEET**	REF. NO. OF DOC. BEING CONT'D. M67001-78-M-5884	PAGE 2 OF 2

NAME OF OFFEROR OR CONTRACTOR

THE GEORGE SEELKE CO.

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
2	M93058-8150-W017 4610-00-C99-0595, Pump, Vertical, without discharge head and electric motor, Type 20CC, Johnston Replacement Serial #JQ3864, 1 Stage, 12", 3500 GPM, 60' TDH, Total Length 12'6" NOTE: Each pump assembly shall be furnished with the following: 20CC Bowl Assembly with Bronze Impeller; 12 inch top and bottom column pipe with coupling; 416 Stainless Steel, 1-15/16" Line Shaft with coupling, 12 inch X 1-15/16 inch Bearing Retainer Assembly; Top Column Flange and Gasket. The Pump Bowl and Column Flanges will be Cast Iron. The internal parts in the column and bowl will be bronze and/or stainless steel as required. THIS IS TO BE EXACT REPLACEMENT.	1	EA	4,446.00	4,446.00

F.O.B. Mobile, AL. Transportation charges estimated not to exceed $300.00. All transportation charges prepaid and listed on dealers invoice as a separate item.

PER NO OF DEF BEING CONT'D

Camp Geiger

Bldg. No.		
STC - 606	Elevated Tank	100,000 Gal. Cap.
STC - 1070	" "	100,000 " "
STC - 500	Ground Storage Tank	272,000 " "
STC - 503	" " "	272,000 " "
STC - 509	" " "	600,000 " "

M. C. A. S.

Bldg. No.		
107	Ground Storage Tank	225,000 Gal. Cap.
108	" " "	200,000 " "
310	Elevated Tank	300,000 " "
4130	" "	350,000 " "

Rifle Range

Bldg. No.		
SRR 44	Elevated Tank	100,000 Gal. Ca
SRR 86	Ground Storage Tank	350,000 "

Courthouse Bay

Bldg. No.		
SBB 25	Elevated Tank	100,000 Gal. Ca
SBB 191	Ground Storage Tank	350,000 " "

Onslow Beach

Bldg. No		
SBA 108	Elevated Tank	100,000 Gal. Cap.
SBA 139	Ground Storage Tank	[illegible] 000 " "

633 - 30.75

Water Plant Number Cont.:

Montford Point

Well Z, bldg. #M-141 Z-1, bldg. #M-142 Z-2, Bldg. # M-243

Well Z-3, bldg. #M-244 Z-4, " #M-627 Z-5 " # M-~~626~~ 628

Well Z-6, " #M-168
Water Plant (Nov. 1956) M-178
150,000 gal. elevated water tank, bldg. #SM-624
Water Filter plant, Swimming pool, bldg. #M-139
Well # WC-1, White cemetary, M-143
Camp Geiger

Well A, bldg. #TC-104
B, " #TC-100
C, " #TC-300
D, " #TC-502A
E, " #TC-600
F, " #TC-700
G, " #TC-901

Well H, bldg. #TC-201
I, " #TC202
J, " #TC-504A
K, " #TC-604
L, " #TC-1000
M, " #TC-1001W

Softening Plant, bldg. #TC-506
Pumping plant , " #TC-501
Clear water storage tank, bldg. #STC-500
" " " " , " #STC-509
Water Storage tank, bldg, #STC-503

TF #40

Salt storage tang, " #STC-619
100,000gal. elevated water tank, bldg. #STC-1070
100,000 " " " " " #STC-606

RIFLE RANGE PLANT - BLDG # RR-85 RESERVIOR S-RR-8 L-360,000 GAL.

Rifle Range Well S, bldg. #RR-45A Well T, bldg. #RR-46
S-1 " #RR-47 T-1 " #RR-227A W
100,000 gal. elevated water tank, bldg. #SRR-44

HGT. FROM INLET PIPE TO BOTTOM - 103.1 FT TANK 25 FT. 23.4 TO OVER FLOW FT.

Amphibious Base Well U, bldg. # A-5A
Water balancing tank and control bldg. #A-4

Courthouse Bay Well V, bldg. #BB-44 Well W, bldg. #BB43A
100,000 gal. elev. water tank, bldg. #SBB--25

HGT. FROM INLET PIPE TO BTM. 103.1 FT. BA TANK 25 FT — 23.9 TO OVER FLOW

Onslow Beach Well #22, bldg. 109 Well #23, bldg. BA-110A
Water treatment plant, bldg. #BA-138
Clear water storage , " #BA-139
100,000 gal. elev. water tank, bldg. #SBA-108
BRINE " " SBA-140

N.C.O. School Well bldg. #

TARAWATER - " # TT40 CAP - 250,000 GAL.

CAPEHART - EL TANK # ? CAP - 300,000 "

1-7-59

T.T. EL. TANK 250,000 GAL
OVER FLOW AT 148 FT.
GAGE READING.
30 FT tank Bowl.
GAGE CENTER 1 FT HIGHER THAN MAIN LINE.

Water Treatment Building Numbers:

Plant Bldg. #20
Chemical Storage, bldg. #42
Chemical Laboratory, Bldg. #762
Clear water storage basin (500,000 gal.) Bldg. # S-735
" " " " (2,000,000 gal.) Bldg. #S-763
300,000 gal. elevated water tank, near brig, Bldg. # S-5.
300,000 " " " " ,Industrial Area, Bldg. S-1000
300,000 " " " " ,Near Hostess House, bldg. # S-29
200,000 " " " " ,near golf course, bldg. #S-2323.

1-7-59

MONTEREY PT EL. TANK.
OVER FLOW AT TANK.
GAGE READING 92 FT.

Pump house and well			# 1,	bldg.	#601W
"	"	"	# 2,	"	#602
"	"	"	# 3	"	#603W
"	"	"	# 4	"	#604
"	"	"	# 5	"	#605
"	"	"	# 6	"	#606
"	"	"	# 8	"	#608A
"	"	"	# 9	"	#609
"	"	"	#10	"	#610A
"	"	"	#11	"	#611
"	"	"	#12	"	#612
"	"	"	#13	"	#613A
"	"	"	#14	"	#614
"	"	"	#15	"	#615
"	"	"	#16	"	#616
"	"	"	#17	"	#617W
"	"	"	#18	"	#618
"	"	"	#19	"	#619
"	"	"	#20	"	#620
"	"	"	#21	"	#621W
"	"	"	#24	"	#624A
"	"	"	#25	"	#625A
"	"	"	#26	"	#626A
"	"	"	#27	"	#627A
"	"	"	#28	"	#628A
"	"	"	#29	"	#629A
"	"	"	#30	"	#630
"	"	"	#31	"	#631
"	"	"	#R	"	#2322
"	"	"	#LCH-1	"	#4006

Booster poump station, bldg. #742
Bypass pump station, " #38
Water Filter plant, Area #2 Swimming Pool, bldg. # 236
" " " " #5 " " " #540
" " " , Paradise Point " " " #2615
200,000 gal. elevated water tank, bldg. #S4004 (Midway P.)

Wells marked with A are dual drive and have an Allys Chalmers gas motor
" " " W " " " " " a Wisconsin gas motor
" " " H " " " " " a hurcules " "

12-4-68

Storage Tanks--Ground & Elevated

A. Hadnot Point Area

S- 735-----500,000 Capacity (ground)
S- 763----2,000,000 " "
750,000 "

Elevated Tanks
S-5-------300,000 Gal. Capacity, Area #2
S-29------300,000 " " " #5
S-830-----300,000 " " " Capehart
S-1000----300,000 " " " Industrial
S-2323----200,000 " " " Paradise Point
S-FC-314--300,000 " " " Magazine
S-4004----200,000 " " " Midway Park
~~SEC 314 300,000~~

B. Tarawa Terrace

STT-39----750,000 Gal. Capacity, " Tarawa Terrace (Ground)

STT-40----250,000 " " " " " (Elevated)

C. Montford Point

SM-179----400,000 " " " Montford Point (Ground)
SM-624----150,000 " " " " " (Elevated)

D. Camp Geiger

STC-500,00272,000 " " " Camp Geiger (Ground)
STC-503---272,000 " " " " " "
STC-509---600,000 " " " " " "
STC-606---100,000 " " " " " (Elevated)
STC-1070--100,000 " " " " " "

E. Rifle Range

SRR-86----360,000 " " " Rifle Range (ground)
SRR-44----100,000 " " " " " (Elevated)

F. Courthouse Bay

SBB-25----100,000 Gal " " Courthouse Bay (Elevated)

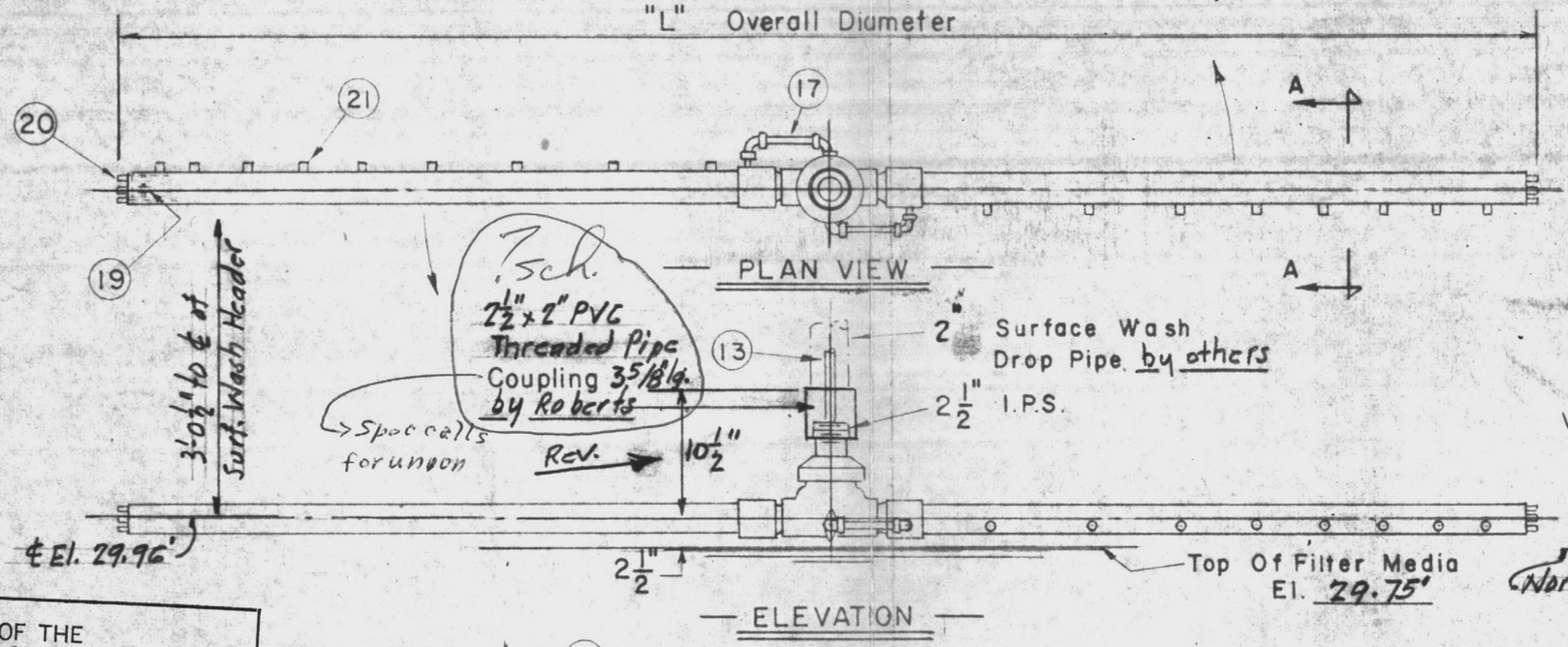
G. Onslow Beach

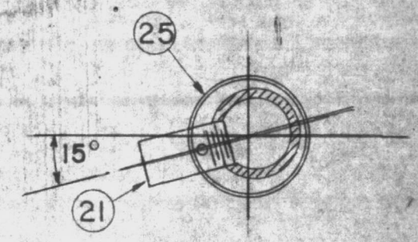
SBA-139---250,000 " " " Onslow Beach (Ground)
SBA-108---100,000 " " " " " (Elevated)

H. Amphibian Base, 6,000 Gal. Pressure tnak

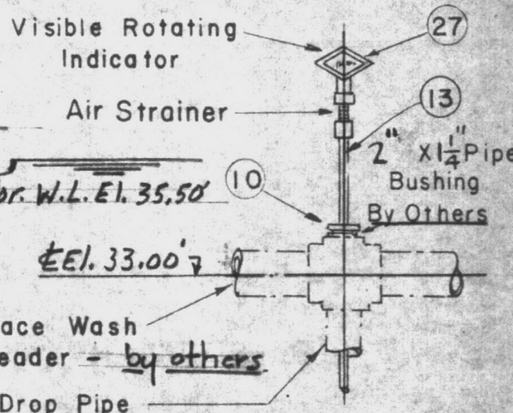
I. ~~Engineer Stockade has a small elevated tank~~

4,011,011

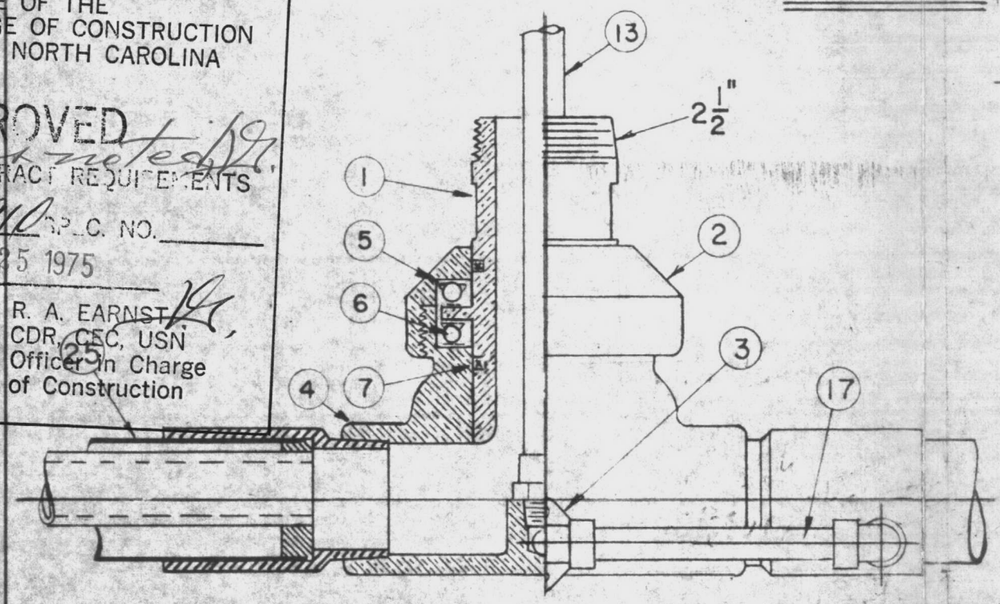




— SECTION A-A — THRU ARMS



— POSITION INDICATOR —



— SECTION THRU ROTARY AGITATOR —

CONSTRUCTION MATERIALS

1	Stator	C. Br.
2	Cover	C. Br.
3	Air Tube Flange	C. Br.
4	Body	C. Br.
5	Ball Bearing Races	Stnls. Stl.
6	Ball Bearings	Stnls Stl.
7	Quad-Rings	Type 366Y Buna N
10	1¼" Indicator Bushing	P.V.C.
13	Air Inlet Pipe	3/4" C.T. Type K
17	Air Pipe To Arms	1/2" C.T. Type K
19	Water To End Nozzles	
20	End Jet Nozzles	P.V.C.
21	Air/Water Nozzles	P.V.C.
25	2" Arm Assembly	Fiberglass & P.V.C.
27	Indicator	

NO REQ'D.	L DIAMETER	NOZZLES END	NOZZLES A/W	G.P.M. AT 60 P.S.I. MIN.	G.P.M. AT 100 P.S.I.	CONTRACT NO.	DESTINATION
20	8'-0"	6	12	59	76	1778	CAMP LEJEUNE, N.C.

NO.	REVISION	BY	DATE
1	Dimension marked →	P.F.	6-12-75

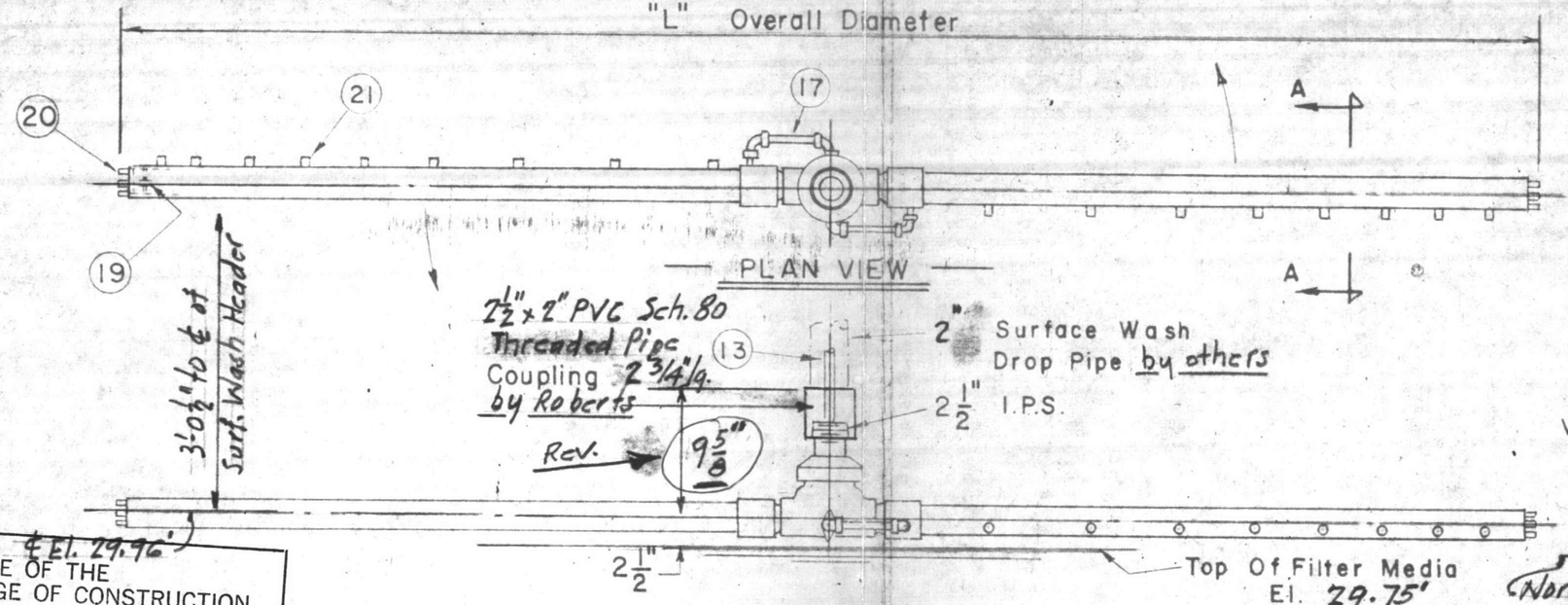
$2\frac{1}{2}$" ROBERTS XL-600
ROTARY MEDIA WASHER

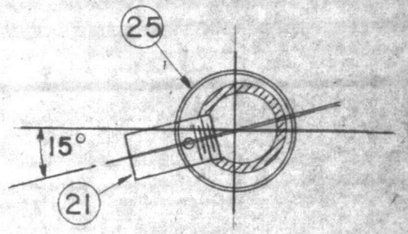
ROBERTS FILTER MFG. CO.
DARBY, PA.

DRAWN P.F. | DATE 6-9-75 | B-8266-3

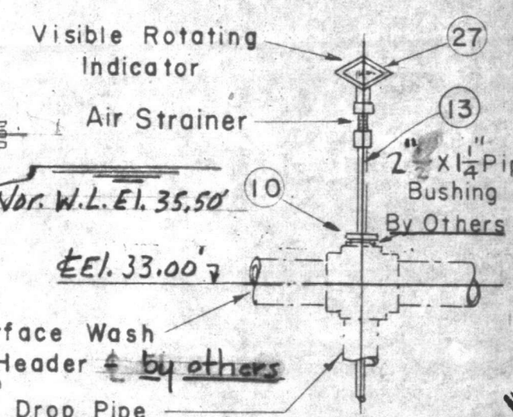
OFFICE OF THE
OFFICER IN CHARGE OF CONSTRUCTION
CAMP LEJEUNE, NORTH CAROLINA

APPROVED except as noted on
SUBJECT TO CONTRACT REQUIREMENTS
CONTRACT NBy 0410 P.C. NO.
DATE JUN 25 1975
R. A. EARNST
CDR, CEC, USN
Officer in Charge
of Construction

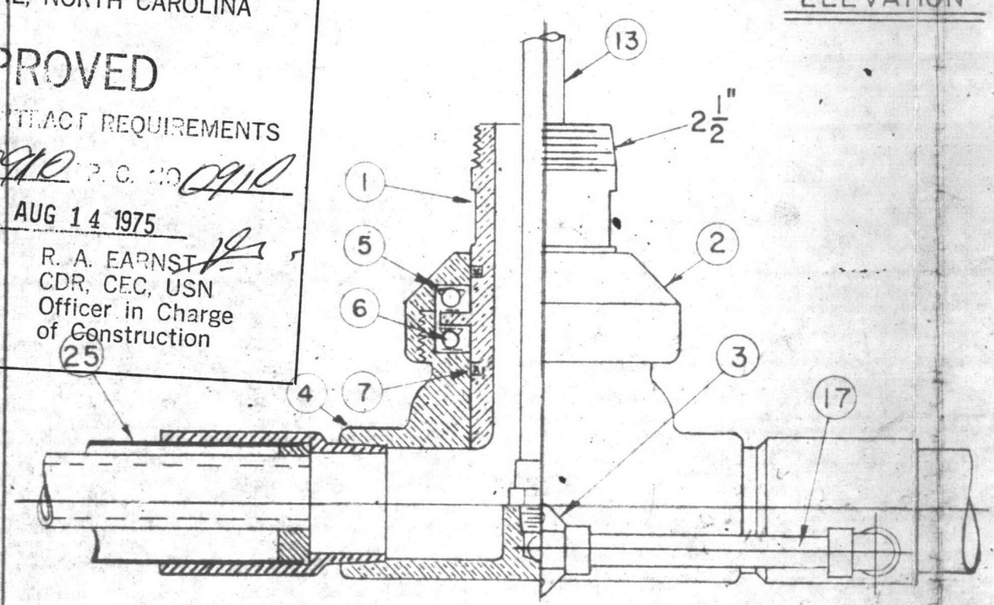




SECTION A-A
THRU ARMS



POSITION INDICATOR



SECTION THRU ROTARY AGITATOR

OFFICE OF THE
OFFICER IN CHARGE OF CONSTRUCTION
CAMP LEJEUNE, NORTH CAROLINA

APPROVED
SUBJECT TO CONTRACT REQUIREMENTS
CONTRACT N32470 P. C. NO 0910
DATE AUG 14 1975
R. A. EARNST
CDR, CEC, USN
Officer in Charge of Construction

CONSTRUCTION MATERIALS

1	Stator	C. Br.
2	Cover	C. Br.
3	Air Tube Flange	C. Br.
4	Body	C. Br.
5	Ball Bearing Races	Stnls. Stl.
6	Ball Bearings	Stnls Stl.
7	Quad-Rings	Type 366Y Buna N
10	1¼" Indicator Bushing	P.V.C.
13	Air Inlet Pipe	3/4" C.T. Type K
17	Air Pipe To Arms	1/2" C.T. Type K
19	Water To End Nozzles	
20	End Jet Nozzles	P.V.C.
21	Air/Water Nozzles	P.V.C.
25	2" Arm Assembly	Fiberglass & P.V.C.
27	Indicator	

NO REQ'D.	L DIAMETER	NOZZLES END	NOZZLES A/W	G.P.M. AT 60 P.S.I. MIN.	G.P.M. AT 100 P.S.I.	CONTRACT NO.	DESTINATION
20	8'-0"	6	12	59	76	1778	CAMP LEJEUNE, N.C.

Approved 6/25/75

NO.	REVISION	BY	DATE
2	Dimension marked →	P.F.	7-28-75
1	Dimension marked →	P.F.	6-12-75

2½" ROBERTS XL-600
ROTARY MEDIA WASHER

ROBERTS FILTER MFG. CO.
DARBY, PA.

DRAWN P.F. | DATE 6-9-75 | B-8266-3

4 of 11

SOILTEST, INC.
2205 LEE STREET
EVANSTON, ILL. 60202
SUBSIDIARY OF CENCO INSTRUMENTS CORPORATION. • TELEPHONE 312/869-5500 • TELEX NO. 72-4496 • CABLE: SOILTEST, EVANSTON

QUOTATION

No. DR-765

U.S. Marine Corps
Marine Corps Base
Camp Lejeune, NC 28450

Attn: T.D. Herndon

DATE October 1, 1974

YOUR INQUIRY Water & Wastes Digest
DATED July 1974

GENTLEMEN:

WE SINCERELY APPRECIATE YOUR INQUIRY AS NOTED ABOVE AND ARE PLEASED TO QUOTE AS FOLLOWS:

These Prices Are: FOF Evanston, Ill.

Terms: [X] Net 30 Days.* [ ]

[ ] Export, confirmed irrevocable letter of credit payable through Chicago or New York Bank.

*SUBJECT TO CREDIT APPROVAL.

SOILTEST, INC.

BY D. F. Stazy

TITLE D.F. Stazy
Quotation Manager

THIS QUOTATION IS FIRM FOR A PERIOD OF 30 DAYS
PRICES QUOTED IN U.S. DOLLARS

Item No.	Quan.	Model No.	DESCRIPTION		AMOUNT Unit	AMOUNT Total
1	1	DR-765	Deep Water Indicator (1500 ft)			$ 295.00
2	1	DR-771	Replacement cable section (1500 ft)			135.00
3	1	DR-764	Replacement Probe End section			10.00
			Please note enclosed catalog page 63.			
			Shipment: Normally prompt from stock.			
			Our representative serving your area is, and your order may be placed with,			
			Brainard-Kilman Drill Co. 2058 Kilman Drive P.O. Box 487 Tucker, Georgia 30084 AC: 404/938-8112			

Please return copy of this quotation with your order.

SOILTEST, INC.
2205 LEE STREET
EVANSTON, ILL. 60202

SUBSIDIARY OF CENCO INSTRUMENTS CORPORATION. • TELEPHONE 312/869-5500 • TELEX NO. 72-4496 • CABLE: SOILTEST, EVANSTON

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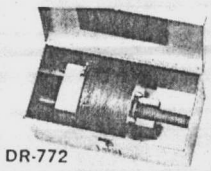
			Brainard-Kilman Drill Co. 2058 Kilman Drive P.O. Box 487 Tucker, Georgia 30084 AC: 404/938-8112			

Please return copy of this quotation with your order.

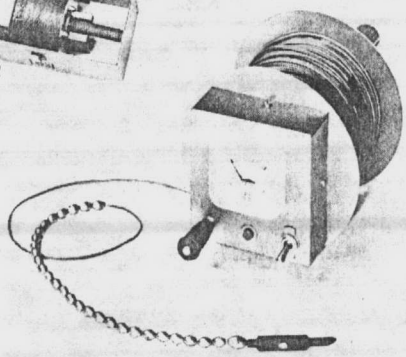
Well Pumps

Well #	July		Aug. 61		Sept. 61		Oct. 61		Nov. 61		Dec. 61	
	Draw down	Static	Draw down	Static	Draw down	Static	Draw down	Static	Draw down	Static	Draw down	Static
1	14'	30'	14'	30'	14'	30'	13'	31'	9'	31'		
2	15'	45'	18'	45'	15'	44'	16'		7'			
3	22'	49'	25'		28'	49'	17'	49'	15'	49'		
5	28'	62'	25'	64'	26'	64'	28'	63'	27'			
6	18'	51'	20'	51'	24'	51'	11'	49'	24'	50'		
8	9'	34'	9'	35'	10'	36'	10'	35'				
10	5'	38'	15'		9'	39'	8'	40'	6'	38'		
11	6'	27'	8'		6'	29'	4'	28'	7'			
12	13'	36'	22'	39'	12'	35'	11'	35'	12'	38'		
13	5'	26'	6'		5'	27'	.5'	28'	4'	27'		
14	5'	28'		30'	5'	30'	5'	27'	4'	26'		
15	5'	20'		22'	8'	22'	6	21'	4'	22'		
16	15'	37'		38'					11'	38'		
17	9'	28'	15'		12'	28'	15'	27'		24'		
18	15'	39'	20'		15'	39'	13'	38'	14'			
19												
20	20'	32'	23'		19'	34'	17'	33'	16'	34'		
21	6'	23'	4'		10'	27'	13'	26'	8'	23'		
M1	5'	13'	5'	14'	5'	14'	5'	14'	4'	13'		
M2	10'	39'	5'	40'	12'	40'	12'	40'	12'	38'		
24	11'	48'	11'	48'	22'	47'	22'	46'				
25		48'	21'	52'	23'	52'	21'	51'	22'			
26	13'	43'	12'	44'	10'	44'	14'	44'				
27	16'	44'	16'	44'	6'	45'	10'	46'	22'	44'		
28	11'	47'	13'	46'	14'	46'	4'	47'	8'	43'		
29	10'	52'	10'	52'	4'	51'	5'	51'	12'	45'		
30							46'?	42'				
31	34'	70'	24'	68'	42'	44'	22'	56'	24'			
32	23'	51'	20'	34'	20'	50'	18'	48'				
33	26'	35'	25'		26'	36'	23'		19'	36'		
34	24'	49'	42'		42'	49'	44'	49'		49'		
35	27'	55'	34'		28'	57'	27'		24'	56'		
36	53'	75'	62'		66'	78'	68'	78'		76'		
9	20'	48'	19'	50'	20'	48'	19'	50'	20'			

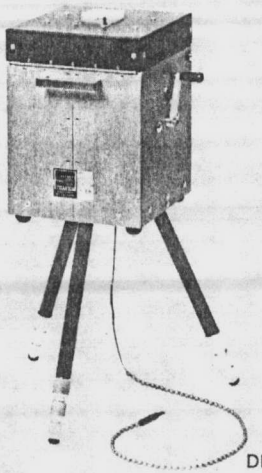
WATER LEVEL INDICATORS



DR-772



DR-762A



DR-765A

GENERAL INFORMATION

Water level indicators are portable instruments used for determination of the water level in bore holes, wells, and other open underground structures. No ground or outside power connections are needed.

The sensing portion of the probe has a stainless steel tip with plastic shielding to keep splashing water from giving false readings. A special ⅛" diameter, high strength, fine grade, flexible wire cable is used on all indicators.

Spaced interval markers every five feet make it easy to determine depth. Metric models have markers every meter. The numbered markers on the wire cable are shrunk in position to prevent their movement. A clear plastic covering over the interval markers prevents obliteration of the numbers. The markers are smooth so they will not hang up on small obstructions in the bore-hole. The plastic markers cannot cause short circuiting of the cable after extensive use.

NEW MODEL: DR-759 Audio Water Level Indicator
Similar to DR-760A except that contact with water is indicated by an audio signal. For depths to 300 feet.

DR-760A WATER LEVEL INDICATOR (300 Feet)

The Soiltest DR-760A Water Level Indicator is a self-contained, transistorized instrument for determination of ground water level in bore holes and wells to depths of 300 feet.

A high strength, small diameter cable, ⅛ inch diameter and 300 feet long, is mounted on a six-inch diameter plastic spool. Spool features rapid turning action when winding or unwinding the cable. Weighted probe assembly keeps cable taut as it is lowered into the hole. The transistorized instrument has a test button, indicating meter, and on-off switch. Sizes is 12 inches long by 6 inches diameter.

Models Available:

DR-760A Water Level Indicator, 300 feet
DR-760M Water Level Indicator, 92 meters

Shipping weight: 15 pounds. *Net weight: 13 pounds.*

SPARE PARTS

Probes:

DR-764 Replacement Probe End Section, weighted and segmented. Similar to that shown on DR-762A. Can be used on DR-760A, DR-762A and DR-765. Includes short length of attachment cable. Case diameter 0.412 inches.

DR-766 Drawdown probe. Special weighted probe, 5¼" long. Tip shielded by plastic cover, ¾" diameter. Can be used on all models for well drawdown tests where spill-over from pump causes indicating difficulties. Short length attachment cable included.

Shipping weight: ½ pound. *Net weight: ¼ pound.*

Replacement Cable Sections (Probes Not Included):

DR-769 300 foot cable with markers for DR-760A
DR-769M 92 meter cable with markers for DR-760M
DR-770 500 foot cable with markers for DR-762A
DR-770M 152 meter cable with markers for DR-762M
DR-771 1500 foot cable with markers for DR-765
DR-771M 450 meter cable with markers for DR-765M

DR-762A DEEP PROBE WATER LEVEL INDICATOR (500 Feet)

The Soiltest Deep Probe Water Level Indicator has a depth capacity of 500 feet. It is similar in design to Model DR-760A but with additional features. The probe end has a heavily weighted section for fast lowering to deep measuring elevations. When snagged in a hole this probe section can be pulled apart or disconnected from the main cable and the main cable section can be salvaged.

The cable reel and instrument mounting are stainless steel. The reel is ball bearing mounted. The instrument has a test button, meter-type indicator and on-off switch. The apparatus is 12½ inches long and 6 inches in diameter. Cable length is 500 feet.

Models Available:

DR-762A Deep Probe Water Level Indicator, 500 feet
DR-762M Deep Probe Water Level Indicator, 152 meters

Shipping weight: 10 pounds. *Net weight: 8 pounds.*

DR-765 DEEP WATER INDICATOR (1500 Feet)

The new Deep Water Indicator is used for accurately determining the surface elevation of water tables down to 1500 feet.

Housed in a sturdy, anodized aluminum case with three removable, adjustable legs. The device consists of an aluminum and plastic cable reel, 1500 feet of special cable, probe with segmented weights for better workability in passing small obstructions on walls of casings, transistorized amplifier and voltage meter. If snagged, the segmented probe will break away without damaging the main section of cable.

Models Available:

DR-765 Deep Water Indicator, 1500 feet
DR-765M Metric Deep Water Indicator, 450 meters

Shipping weight: 27 pounds. *Net weight: 22 pounds.*

DR-772 WATER LEVEL CARRYING CASE

Stainless steel carrying case for Water Level Indicators. Mounting blocks and pads hold indicator in position. Carrying handle and clasp. Fully hinged top. Can be used with models DR-760A and DR-762A.

Shipping weight: 5 pounds. *Net weight: 2 pounds.*

Water Treating & Pumping Plant — Bldg.#20 (Hadnot Point)

A. Pump Room:-

1. Unit #1 - Motor Driven Pump:
   (a) 1 Pump, Delaval, Serial No. 235612, Type-Centrifugal; RPM-1775; GPM-1500; Head-160 ft.
   (b) 1 Motor, General Electric Induction, Serial No.5597703; Type-K.F.; Model-5KF505CV1; Frame-505S, Volts-220/440 AC; Amps-180/90; Phase-3; Cycles-60; RPM-1775; HP-75.
   (c) 1 Engine, gas. Continintal Motor Corp.; No. 33R-301; Cylinders-6.
   (d) 1 Switch, enclosed safety electric, Trumbull Electric Co. Type-RBA; Cat.No. 66326; Amps-600; Poles-3; Volts-230 AC.
   1 Switch starter, General Electric Co., Cat. No. 4381170 G3, C.R.7006D38A Magnetic Switch, Amps-300; Volts-208/220, Cycles-60; H.P.-100.

2. Unit #2 - Motor Driven Pump:
   (a) 1 Pump, Delaval, Serial No. 235613, Type-Centrifugal; RPM-1775; GPM-1500; Head-160 ft.
   (b) 1 Motor, General Electric Induction, Serial No. 5597704; Type-K.F.; Model-5KF505CV1; Frame-505S, Volts-220/440 AC; Amps-180/90; Phase-3; Cycles-60; RPM-1775; HP-75.
   (c) 1 Switch, enclosed safety electric, Trumbull Electric Co. Type-RBA; Cat.No. 66326; Amps-600; Poles-3; Volts-230 AC.
   1 Switch starter, General Electric Co., Cat. No. 4381170 G3, C.R.7006D38A Magnetic Switch, Amps-300; Volts-208/220, Cycles-60; H.P.-100
   (d) 1 Engine, gas. Continintal Motor Corp.; No. 33R-302; Cylinders-6.

3. Unit #3 - Motor Driven Pump:
   (a) 1 Pump, Delaval, Serial No. 235614, Type-Centrifugal; RPM-1775; GPM-1500; Head-160 ft.
   (b) 1 Motor General Electric Induction, Serial No. 5597705; Type-K.F.; Model-5KF505CV1; Frame-505S, Volts-220/440 AC; Amps-180/90; Phase-3; Cycles-60; RPM-1775; HP-75.
   (c) 1 Switch, enclosed safety electric, Trumbull Electric Co., Type-RBA; Cat. No. 66326; Amps-600; Poles-3; Volts-230 AC.
   1 Switch starter, General Electric Co., Cat. No. 4381170 G3, C.R. 7006D38A Magnetic Switch, Amps-300; Volts-208/220, Cycles-60; H.P.-100.
   (d) 1 Switch,(spare), enclosed safety electric, Trumbull Electric Co., Type-RBA; Cat. No. 66326; Amps-600; Poles-3; Volts-230 AC.
   1 Switch starter, (spare), General Electric Corp. Cat. No. 438311463, C.R. 2811C6A Magnetic Switch, Amps-300; Volts-208/220; Cycles-60; HP-100.

Pump Room Continued.

4. Unit #4 - Automatic Controls:
   (a) 2 Automatic Controlers, Automatic Control Company, Type E.D.; No. 3916; Volts-220; Cap.-100.

5. Unit #5 - Valves:
   (a) 3 Valves, M.H.V. & F. Co.; Size-10"; No.41; WSP-200; Type-Hand Wheel.
   (b) 3 Valves, M.H.V. & F. Co.; Size 10"; No.42; WSP-100; Type-Hand Wheel.
   (c) 3 Valves, Chapman; Size-10", No.23, WSP-150; Type-Check.

6. Unit #6 - Recording Meters:
   (a) 2 Meters, Recording; Republic Flow Meter Co., Serial Nos. 644-324, 644-325; Chart No. 14-40.

7. Unit #7 - Chlorinators:
   (a) 1 Chlorinator, Wallace & Tiernan Co., Inc. Automatic Visible Vacuum Chlorinator; Type-M.A.D.V.; Serial No. L1182.
   (b) 1 Differential Converter, Wallace & Tiernan Co., Inc. Serial No. L1556.

8. Unit #8 - Chlorinators:
   (a) 1 Chlorinator, Wallace & Tiernan Co., Inc. Automatic Visible Vacuum Chlorinator; Type-M.A.D.V.; Serial No. L0989.
   (b) 1 Differential Converter, Wallace & Tiernan Co., Inc. Serial No. L1557.

9. Unit #9 - Exhaust Fan:
   (a) 1 Exhaust Fan, Sturtevent Rexvane, No. 300146; Size-R16, Design-9.
   (b) 1 Motor, Westinghouse; Type-F; Frame-145; Series-IM; Style-1177105C; Volts-115; Amps-2.6; Cycles-60; Phase-1; RPM-1140; HP-1/8.
   (c) 1 Switch, electric; Trumbull Electric Co.; Type-RBA; Cat.No.66321; Volts-230AC; Amps-30; Pole-3; HP-3.

10. Unit #10 - Condensate Pump:
   (a) 1 Condensate Pump, Yoeman Bros. Co., S.O.-AP5713; Unit No. 6; GPM-6; Pressure-100 lbs.; RPM-1745. (No name plate)
   (b) 1 Motor, induction, Westinghouse Electric Co., Type-CS; Serial No. 2/7C7244; Frame-204; Style-7C7244; Volts-208/412; Amps-3.2/1.6; Phase-3; Cycles-60; RPM-1745; HP-1.
   (c) 1 Switch, Safety, Square D, Electric Co.; Cat.No. 84351; Series No. 2; Volts-230AC; Amps-30; Pole-3; HP-5.
   (d) 1 Switch, Linestarter, Westinghouse Electric Co., No. 22627; Class-11.20550.

(e) Switch automatic, name Square D Company, Asheville, N.C. Type: BG-1; Class: 9037; Form: BIG2-162

Pump Room Continued.

12. Unit #12 - Water Level Control:
    (a) 1 Water level Control, Automatic Control Co.,
        Type-M4; No. 5259; Volts-220/440.
    (b) 1 Switch, safety, Square D Electric Co.,
        Cat.No.59311; Series-2; Amps-30; Volts-230.

13. Unit #13 - Well Control Unit:
    (a) 1 Carrier Current Remote Control Unit, General Electric Co.,
        Model-4MC35A1; Volts-100/130; Cycle-60; Type-MC35A.
    (b) 1 Carrier Current Station Control Unit, General Electric Co.,
        Model 4MC34A1; Volts-200/260; Cycle-60; Type-MC34A.
    (c) 1 Frequency Converter, General Electric Co.,
        Model 5KY-219AA1; Type-KY; Frame-219; Serial No. 5744250;
        Speed-3600 RPM.
        Primary; 3 phase, 60 cycles, 135 amps, 230 volts.
        Secondary; 3 phase, 720 cycles, 80 amps, 230 volts, 30 KW.
        (1) 1 double throw switch, Square D Electric Co.
            Cat. No.82353; Amps-100; Volts-230.
        (2) 1 Switch starting, GeneralElectric Co.,
            Cat.No. 438126103; CR7006-D31B; Volts-208-220; Cycle-60.
        (3) 1 Switch,safety, Square D Electric Co.,
            Cat. No. 41354, Series 3, Volts-230 AC, Amps-200; HP-40.
        (4) 1 Switch,safety, Square D Electric Co.,
            Cat.No. 59311; Series 2; Amps-30; Volts-230.

14. Unit #14 - Pressure Recorder:
    (a) 1 Pressure recorder, Brown Instrument Company,
        Serial No. 196648; Model-7081; Range-0 to 100 lbs.
        Volts-110; Cycles-60; Chart No.1315.

15. Unit #15 - Light Circuit:
    (a) 1 Switch, throw, Frank Adams Electric Co.,
        Cat. No. SA10333N; Type-A; Volts-230AC.
    (b) 1 Switch panel, Trumbull Electric Co.,
        Amps-100; Volts-175/250; 1 phase 3W; 24 circuits.

16. Unit #16 - Valves, miscellaneous.
    (a) 2 valves, hand operated, MHV & F Company
        Size-16"; pressure-150 lbs.

B. Filter Room:-

1. Unit #1 - Wash Water Pump:
   (a) 1 Pump, Wash water, American Well Works, Shop No. 65946; Fig.No.4004; Size-14 x 14 AO; RPM-880; GPM-6300; Head-37'.
   (b) 1 Motor, Wagnor Electric, Type-RP2; Frame-635S; Model-1E11BY96; Serial No. 728692; Volts-220/440; Amps-188/94; Phase 3, Cycles-60; RPM-870; HP-75.
   (c) 1 Switch, Enclosed safety electric, Trumbull Electric Mfg. Co., Type-RBA; Cat.No.66326; Amps-600; Pole-3; Volts-230AC.
   (d) 1 Switch, starter, General Electric Co., Cat.No. 80273A4G3; CR7006d-38BK; Volts-208/220; Phase-3; Cycles-60; Amps-270; HP-200.
   (e) 1 Valve, Chapman, Size-16"; No. 101; WP-350; Hand operated.
   (f) 1 Valve, Chapman, Size-16"; No. 58½; WP-50; Hand operated.
   (g) 1 Valve, Mueller Co., Size-16"; WP-175; Check.

2. Unit #2 - Filters:
   3 filters with the following data on each:-
   (a) 1 Filter, 350 Square feet.
   (b) 1 Operating table, Type-M; International Filter Co.
   (c) 5 Transfer switches; Type-M Hydraulic; International Filter Co.
   (d) 1 Loss head guage, Type-CM indicating; International Filter Co.
   (e) 1 Rate of flow gauge, Type-CM indicating; International Filter Co.
   (f) 1 Rate of flow controlers; Type CD-G; International Filter Co. — SER # 2495
   (g) 1 Valve, Hydraulic, MHV&F Co.; 18".
   (h) 1 Valve, HYdraulic, MHV&F Co.; 16".
   (i) 1 Valve, Hydraulic, MHV&F Co.; 12".
   (j) 1 Valve, Hydraulic, MHV&F Co.; 10".
   (k) 1 Valve, HYdraulic, MHV&F Co.; 4".

3. Unit #3 - Water Cooler; U S-50b
   (a) 1 Water Cooler, Westinghouse; Serial No. 047620; Style-1142562; Volts-115; Amps-4; Cycles-60; Refrigerant-F12-22oz; Test pressure-200lbs.

4. Unit #4 - Valves, miscellaneous:
   (a) 1 Valve, Hand operated; Size-16"; No. 58½; WSP-50.
   (b) 1 Valve, Hand operated; Size-16"; WSP-150; MHV&F Co.
   (c) 1 Valve, Hand operated; Size-12"; WSP-200; MHV&F Co.
   (d) 1 Valve, Hand operated; Size- 3"; Pressure-175lbs.; American Valve Co.
   (e) 1 Valve, Hand operated; Size-2½"; Pressure-250lbs.; Scott Valve Co.

4. Miller Moon:-

1. Unit 21 - Lean Water Traps

(a) 1 Trap, Lean Water, Anchored Well Works, Ohm No. 6854; Pkg. c. 22.
Size-1A x 1.10; [illegible]-6290; Used-27.

(b) 1 Motor, Motor Electric, Type-MEX; Frame-6253; Model-1MEX7;
Serial No. 7[illegible]52; Volts-220\440; Amps-1.8\.9; Phase-3, Cycl-60;
RPM-1750; Pkg.

(c) 1 Impeller, Enclosed Gelety discharge, Threaded Bronze alloy Co.;
Type-Shaft, Port-1.5-250; Parts-Imp; Pole-; Volts-440-3.

(d) 1 Impeller, Enclosed Centrifugal Electric Co., Ref.No. 6253; Capacity-
Volts-220\440; Amps-2; Cycles-60; Phase-3; RPM-1750.

(e) 1 Valve, Check, Size-12"; No. 360; Pkg-50; Each Corrosion.

(f) 1 Valve, Check, Size-12"; No. 360; Pkg-50; Each Corrosion.

(g) 1 Valve, Relief, No. 2; Size-12"; Pkg.

2. Unit 22 - Strainer:

3 Filters with the following data on each:-

(a) 1 Strainer, 250 Gauge Test.

(b) 1 Corrosion Proof, Type-E; Thomas Mechanical Rotor Co.

(c) 1 Pressure Control - Type-A; Variable; Thomas Rotogal Filter Co.

(d) 1 Hose Hose Pipe, Type-E; Indicating; Latest Rotomal Valve Co.

(e) 1 Hose of Flow Gauge, Type-EE Indicating; Interstitial Meter Co.

(f) 1 Hose of Flow control; Type CD-1; Instrumental Filter Co.

(g) 1 Valve, Hydraulic, Valve Co.; 12".

(h) 1 Valve, Electric, Valve Co.; 12".

(i) 1 Valve, Pneumatic, Valve Co.; 12".

(j) 1 Valve, Non Auto, Valve Co.; 12".

(k) 1 Valve, Manual, Valve Co.; 4".

3. Unit 23 - Water Cooler:

(a) 1 Water Cooler, Metal Tube; Ser. No. C-70-0; Style-IA2502;
Volts-115; Amps-4; Refrigerant-R-4 Surface protection-2000 Hr.

4. Unit 24 - Valves, miscellaneous:

(a) 1 Valve, Hand operated; Size-12"; No. 6[illegible]; Pkg-30.

(b) 1 Valve, Hand operated; Size-12"; Body-Iron; Valve No.

(c) 1 Valve, Float operated; Size-12"; Body-Iron; Valve No.

(d) 1 Valve, Hand operated; Size-3"; Pressure-1/2Lbs.; Bronze Valve No.

(e) 1 Valve, Pressure Reducing; Size-2"; Pressure-250Lbs.; Bronze Valve Co.

C. Chemical Feed Room:-

1. Unit #1 - Lime Tank Mixer:
   (a) 1 Lime Tank Mixer; Permutit Co., Capacity 1200 gal.
   (b) 1 Motor, Master gearhead, Master Electric Co.; Serial No. PG10093; Style-115219; Type-PA; Frame-225; Volts-208; Cycles-60; Amps-8.4; Phase-3; HP-3; Motor RPM-1725; Co-Shaft RPM-16.5.
   (c) 1 Electrode; B&W Controller Corp.; Type-E1.
   (d) 1 Switch, safety, Catler Hammer Inc., Cat. No. 4131413; Volts-230; Amps-30; Phase-3; Pole-3.
   (e) 1 Switch, maghetic; General Electric Corp. Cat. No.38858496103;CR7006D404; Volts-208AC; Cycle-60.

2. Unit #2 - Lime Tank Mixer:
   (a) 1 Lime Tank Mixer; Permutit Co., Capacity 1200 gal.
   (b) 1 Motor, Mastergearhead; Master Electric Co.; Serial No. PG10094; Style-115219; Type-PA; Frame-225; Volts-208; Amps-8.4; Cycles-60; Phase-3; HP-3; Motor RPM-1725; Co-shaft RPM-16.5.
   (c) 1 Electrode, B&W Controler Corp., Type E 1.
   (d) 1 Switch, safety, Catler Hammer Inc., Cat. No. 4131413; Volts-230; Amps-30; Phase-3; Pole-3.
   (e) 1 Switch, magnetic; General Electric Corp. Cat. No. 38858496103;CR7006D404; Volts-208AC; Cycle-60.

3. Unit #3 - Lime Tank Mixer:
   (a) 1 Lime Tank Mixer; Permutit Co., Capacity 1200 gal.
   (b) 1 Motor Gearhead, Master Electric Co., Serial No. PG10095; Style-115220; Type-PA; Frame-225; Volts-208; Amps-8.4; Cycles-60; Phase-3; HP-3; Motor RPM-1725; Co-shaft RPM-12.5.
   (c) 1 Electrode, B&W Controler Co., Type-E 1.
   (d) 1 Switch, safety, Catler Hammer Inc., Cat. No. 4131413; Volts-230; Amps-30; Phase-3; Pole-3.
   (e) 1 Switch, magnetic; General Electric Corp. Cat. No. 38858496103; CR7006D404; Volts-208AC; Cycle-60.

4. Unit #4 - Lime Tank Mixer:
   (a) 1 Lime Tank Mixer; Permutit Co., Capacity 1200 gal.
   (b) 1 Motor, Master gearhead, Master Electric Co., Serial No. PG10096; Style-115220; Type-PA; Frame-225; Volts-208; Amps-8.4; Cycles-60; Phase-3; HP-3; Motor RPM-1725; Co-shaft RPM-12.5.
   (c) 1 Electrode, B&W Controler Co., Type-E 1.
   (d) 1 Switch, safety, Catler Hammer Inc., Cat. No. 4131413; Volts-230; Amps-30; Phase-3; Pole-3.
   (e) 1 Switch, magnetic; General Electric Corp. Cat. No. 38858496103; CR7006D404; Volts-208AC; Cycle-60.

5. Unit #5 - Valves:
   (a) 2 Valves, Hand operated, Jenkins, Size-5"; WSP-125.
   (b) 2 Valves, Hand operated, Crane, Size-4"; WSP-125.

Chemical Feed
~~Filter~~ Room Continued:-

6. Unit #6 - Water Meter:
   (a) 1 Meter, water, Hershey Mfg., Co.
   Serial No. 1997129; Type-D; Size 1½".
   (b) 1 Meter, water, Hershey Mfg., Co.
   Serial No. 1997130; Type-D; Size 1½".

7. Unit #7 - Switch:
   (a) 1 Switch, throw; Square D Electric Co.,
   Cat. No. 59311; Series-2; Volts-230AC; Phase-3; Poles-3.

8. Unit #8 - Lime Pumps:
   (a) 4 Lime Pumps; Milton Roy Pump Co.,
   Model MD147-74; Pressure-20; Stroke-4"; Job.No.2612-1.
   Each pump is equipped with the following:
   (1) 1 Motor, Gearmotor AC; General Electric Co.,
   Model Motor 5K63AC1194A; Gear-16713D1B; Motor Speed-1425 RPM;
   Gear Speed-74RPM; Ratio-23.5-1; HP-1/2; Volts-208; Amps-2.1;
   Cycles-60; Phase-3.
   (2) 1 Switch, throw; Catler Hammer, Inc.;Cat.No.4131413; Volts-230;
   Amps-30; Phase-3; Pole-3; HP-3.
   (3) 1 Switch, magnetic; General Electric Corp.; Cat.No.3885849G103;
   CR7006D404; Volts-208AC; Cycles-60; HP-5.
   (b) 1 Switch, throw, Square D Electric Company
   Cat. No. 59311; Series-2; Volts-230; Phase-3; Pole-3; HP-3.
   (This switch controls all four (4) lime pumps.

9. Unit #9 - Hoist:
   (a) 1 Hoist, Chisholm Moore Hoist Co., Model 5814; Serial No. ~~3939~~ 3039;
   Capacity-1 ton; Speed-182 FPM; Volts-220AC; Phase-3; Cycles-60.

D. Spiractor Room:-

1. Unit #1 - Spiractors:
   (a) 1 Spiractor; Permutit Company; Capacity 700 GPM.
   (b) 1 Rate of flow Controlers- Simplex Valve & Meter Co., Type-S; Serial No. 83-6444; Max.Cap. 2,270,000 GPD.
   (c) 1 Valve, check; MHV&FCo.; Size-8"; 175 lbs. pressure.
   (d) 1 Valve, hand operated; Chapman, Size-10"; No.59½; Pressure-300 lbs.
   (e) 1 Valve, hand operated; Leaver Nordstrom; Size-4"; Fig.No.-143; 175 lbs. pressure.
   (f) 1 Valve, hand operated; MHV&F Co.; Size-8"; 200 lbs. pressure.
   (g) 1 Valve, hand operated; Jenkins; Size-4"; WSP-125.

2. Unit #2 - Spiractors:
   (a) 1 Spiractor; Permutit Company; Capacity 700 GPM.
   (b) 1 Rate of flow Controlers- Simplex Valve & Meter Co., Type-S; Serial No. 83-6445; Max.Cap. 2,270,000 GPD.
   (c) 1 Valve, check; MHV&F Co.; Size-8"; 175 lbs. pressure.
   (d) 1 Valve, hand operated; Chapman, Size-10"; No. 59½;Pressure-300 lbs.
   (e) 1 Valve, hand operated; Leaver Nordstrom; Size-4"; Fig.No.-143; 175 lbs. pressure.
   (f) 1 Valve, hand operated; MHV&F Co.; Size-8"; 200 lbs. pressure.
   (g) 1 Valve, hand operated; Jenkins; Size-4"; WSP-125.

3. Unit #3 - Spiractors:
   (a) 1 Spiractor; Permutit Company; Capacity 700 GPM.
   (b) 1 Rate of flow Controlers-Simplex Valve & Meter Co., Type-S; Serial No. 83-6446; Max.Cap. 2,270,000 GPD.
   (c) 1 Valve, check; MHV&F Co.; Size-8"; 175 lbs. pressure.
   (d) 1 Valve, hand operated; Chapman, Size-10"; No. 59½; Pressure-300 lbs.
   (e) 1 Valve, hand operated; Leaver Nordstrom; Size-4"; Fig.No.-143; 175 lbs. pressure.
   (f) 1 Valve, hand operated; MHV&F Co.; Size-8"; 200 lbs. pressure.
   (g) 1 Valve, hand operated; Jenkins; Size-4"; WSP-125.

4. Unit #4 - Valves, Miscellaneous:
   (a) 1 Valve, hand operated; MHV&F Co., Size-18"; Pressure-150 lbs.
   (b) 1 Valve; hand operated; MHV&F Co., Size-14"; Pressure-150 lbs.
   (c) 1 Valve, hand operated; Chapman; Size-6 "; No. 24A; 175 CWG.

5. Unit #5 - Manometers:
   (a) 3 Manometers; Simplex Valve & Meter Co.; Type-MAD, non vacuum.

E. Water Storage Tanks:-

1. Unit #1 - Water Storage Tanks:
   (a) 2 Valves-hand operated; MHV&F Co., Size-6".
   (b) 2 Valves-hand operated; MHV&F Co., Size-12".
   (c) 1 Valve -hand operated; MHV&F Co., Size-8".

9. Injector Room:-

1. Unit #1 - Injectors:
(a) 1 Injector; Fernell Company; Capacity 700 GPM.
(b) 1 Rate of Flow Controller- Simplex Valve & Meter Co.,
Type-S; Serial No. 83-5146; Max.Cap. 2,270,000 GPD.
(c) 1 Valve, check; [illegible] Co.; Size-3"; 175 lbs. pressure.
(d) 1 Valve, hand operated; Chapman, Size-10"; No.59; Pressure-300 lbs.
(e) 1 Valve, hand operated; [illegible]; Size-4";
Fig.No.-103; 175 lbs. pressure.
(f) 1 Valve, hand operated; [illegible] Co.; Size-3"; 200 lbs. pressure.
(g) 1 Valve, hand operated; Jenkins; Size-4"; WSP-125.

2. Unit #2 - Injectors:
(a) 1 Injector; Fernell Company; Capacity 700 GPM.
(b) 1 Rate of Flow Controller- Simplex Valve & Meter Co.,
Type-S; Serial No. 83-5145; Max.Cap. 2,270,000 GPD.
(c) 1 Valve, check; [illegible] Co.; Size-3"; 175 lbs. pressure.
(d) 1 Valve, hand operated; Chapman, Size-10"; No. 59; Pressure-300 lbs.
(e) 1 Valve, hand operated; [illegible]; Size-4";
Fig.No.-103; 175 lbs. pressure.
(f) 1 Valve, hand operated; [illegible] Co.; Size-3"; 200 lbs. pressure.
(g) 1 Valve, hand operated; Jenkins; Size-4"; WSP-125.

3. Unit #3 - Injectors:
(a) 1 Injector; Fernell Company; Capacity 700 GPM.
(b) 1 Rate of Flow Controller- Simplex Valve & Meter Co.,
Type-S; Serial No. 83-5146; Max.Cap. 2,270,000 GPD.
(c) 1 Valve, check; [illegible] Co.; Size-3"; 175 lbs. pressure.
(d) 1 Valve, hand operated; Chapman, Size-10"; No. 59; Pressure-300 lbs.
(e) 1 Valve, hand operated; [illegible]; Size-4";
Fig.No.-103; 175 lbs. pressure.
(f) 1 Valve, hand operated; [illegible] Co.; Size-3"; 200 lbs. pressure.
(g) 1 Valve, hand operated; Jenkins; Size-4"; WSP-125.

4. Unit #4 - Valves, Miscellaneous:
(a) 1 Valve, hand operated; [illegible] Co.; Size-10"; Pressure-175 lbs.
(b) 1 Valve, hand operated; [illegible] Co.; Size-12"; Pressure-150 lbs.
(c) 1 Valve, hand operated; [illegible]; Size-6"; No. [illegible]; 175 [illegible].

5. Unit #5 - Manometers:
(a) 3 Manometers; Simplex Valve & Meter Co.; Type-MAO, [illegible].

10. Water Storage Tanks:-

1. Unit #1 - Water Storage Tanks:
(a) 2 Valves-hand operated; [illegible] Co.; Size-[illegible].
(b) 2 Valves-hand operated; [illegible] Co.; Size-12".
(c) 1 Valve-hand operated; [illegible] Co.; Size-3".

Water Supply

601

Well No. 1.

14942

DOWN 11-9-83

1 Pump, Peerless, Ser.No. Gear turbo-J7256.
1 Check valve, MHV&F Co., Size-6"; Pressure-175 lbs.
1 Motor, US Electric Motors Inc., Ser. No. 281852; Frame-877; HP-7½; Volts-220/440; Amps-20/10; Type-CFU; Phase-3; Code-G; 1500 a50 cycles, 1800 at 60 cycles; RPM.
1 Switch, shutlbrak, Frank Adams Electric Co., Type-A; Amps-100; Volts-230AC; Mak.HP-15AC; Volts-125-250DC; Cat.No. SA10333.
1 Switch, starter, General Electric, Magnetic Switch No.CR7006-D30B; Cat.No.4381269G103.Cont.Volts-220;Cont.Cycles-60.
1 Reverse Phase Voltage Relay, Westinghouse, Type-CP-; Volts-115; OHms-485; Ser.No.1142250; Style-1056283A; Cycles-60; Phase-3.
1 Series Resistance-Westinghouse, Ser.No.1142250; Ohms-485x3.
1 Motor, gasoline, aux.drive, Wisconsin Motor Corp., Type-VE4-1; No.168624; Size-3 x 3½.
1 Carrier Current Controller, General Electric, Model-4SCS17B1; Line volts-115; Control cycles-55/65; Load contracts 30 amps up to 250 volts AC.

602

Well No. 2.

FAIRBANK + MOORSE

1 Pump, ~~Peerless, Ser. No. 14743.~~
1 Motor, US Electric Motors Inc., Ser. No. 190420; Frame-254-4; Volts-220/440; Amps-14/7; HP-5; Type-HWI; Phase-3; RPM-1500 at 50 cycles,1800 at 60 cycles.
1 Switch, Trumbull Electric Mfg.Co., Cat. No. 40322; Amps-60; Pole-3; 230AC volts; Max.HP-7½.
1 Switch starter, Cutler Hammer, Bulletin 9586AC, Twin break size 1; Pole-3.
1 Reverse Phase Voltage Relay, Westinghouse, Ser. No. 1142228; Cycles-60; Phase-3; Volts-115; Style-1056283-A.
1 Series Resistance, Westinghouse, Ser. No. 1142228; Ohms-485x3.
1 Valve, check, Mueller Co., Sixe-6", 175 lb. WP.
1 Carrier Current Controller, General Electric, Model 4SCS17B1, Line volts-115; Control cycles 55/65, load contracts 30 amps up to 250 volts AC.

HEAD - 120
STAGE - 4
IMP DIA 5.44
RPM 1735
GPM 200
SIZE 8"

FIG: 7000 E
S.N. T 3 E 24 12 46 1X
SETTING 70'
MOTOR 7.5 HP
SHAFT 1"

-8-

Bill No. 1.

1 Lamp, Overhead, 60 W., Westinghouse, No. 2[illegible]-1[illegible].
1 Check valve, 1" Size, No. 3[illegible], Crosby-[illegible].
1 Gate, 8" Size, Iron, Jar. No. 2[illegible], Brass-Fitted, [illegible]-Volt.
Volts-220/440; Amps-30/[illegible]; [illegible]-Pole, [illegible]; 1500 rpm.
1 Motor, [illegible] H.P.
1 Switch, Knife, Double-Throw, 3-Pole, No. [illegible], 600 Volts-[illegible].
1 Switch, Automatic, Oil-Immersed, [illegible] Amps., 2200 Volts-[illegible].
1 Generator, Direct-Current, Compound-Wound, 100 K.W., 250 Volts-[illegible].
1 Motor, Induction, 440 Volts, 3-Phase, 60-Cycle, [illegible] H.P.
1 Motor, Induction, Squirrel-Cage, 440 Volts, 3-Phase, 60-Cycle, [illegible] H.P.
1 Motor, Induction, Wound-Rotor

Water Supply

603

Well No. 3:

1 Pump, Peerless; Serial No. J7257; Gear turbo.
1 Valve, check; MHV&F Co.; 6"; 175 lbs. pressure.
1 Motor, U. S. Electric Motors, Inc.; Serial No. 265659; Frame-882; Amps-27/13½; Volts-220/440; HP-10; Type-CFU; Phase-3; Code-G; RPM-1500 at 50 cycles, 1800 at 60 cycles.
1 Switch, shutlbrak; Frank & Adams Electric Co., Type-A; Amps-100; Volts-230AC; Max.HP-15; Volts-125-250 DC; Cat. No. SA10333.
1 Switch, starter, Cutler & Hammer; Serial No. 958642518A; Volts-220;60 cycles.
1 Reverse Phase Voltage Relay; Westinghouse; Cycles-60; Volts-115; Phase-3; Serial No. 1142223; Style-1056283A.
1 Carrier Current Controler; General Electric; Model 4SCS17B1; Line volts-115; Cont. cy.55/65.
1 Series resistance; Westinghouse; Serial No. 1142223; Ohms-485 x 3.
1 Motor- gasoline-aux.driven; Wisconsin Motor Corp.; Type-VE4-1; No.168625; Size-3 x 3½.

Well No. 4: 604

1 Pump, Peerless; Serial No. 14745.
1 Motor; U.S. Electric Motors, Inc., Serial No. 286089; Frame-877; Volts-220-440; RPM-1500 at 50 cycles, 1800 at 60 cycles; Amps-20/10; Type-CFU-3 phase-Code G.
1 Switch, shutlbrak; Frank Adams Electric Co., Type-A; Amps-100; Volts-230 AC; Max.HP-15AC; Volts-125-250DC; Cat.No.SA10333.
1 Switch, starter, Cutter Hammer; Serial No. 9586H2518A; 220 Volts;60 cycles.
1 Reverse Phase Voltage Relay, Westinghouse; Serial No. 1142239; 60 cycles; Phase-3; Volts-115; Style-1056283A.
1 Series Resistance, Westinghouse; Serial No.1142239; Ohms-485x3.
1 Valve, check, MHV&F Co., Size-6"; Pressure-175 lbs.
1 Carrier current controller-General Electric; Model-4SCS17B1; line volts-115; Control cycles-55/65; load contracts 30 amps up to 250 volts AC.

Well No. 5: 605

1 Pump, Peerless; Serial No. 14746.
1 Motor, U.S. Electric Motors Inc., Seri.No. 282371; Frame-882; Amps-27-13; Volts-220-440; RPM-1500 at 50 cy, 1800 at 60 cy; HP-10; Type-CFU; 3 phase; Code-F.
1 Switch, shutlbrak; Frank Adams Electric Co., Type-A; Amps-100; Volts-230; Max.HP-15; Volts-125-250. Cat.No. SA10333..
1 Switch, starter, Cutler Hammer; No. 9586H25188; Volts-220; Cycles-60; Size-2; Pole-3.
1 Reverse Phase Voltage Relay-Type-CP; Westinghouse; Cycles-60; Phase-3; Volts-115; Ser.No. 1142249; Style-1056283-A.
1 Series Resistance, Westinghouse; Ser.No.1142249; Ohms-485x3.
1 Valve Check, Grinnell, Size-6"; Press-175 bls.
1 Carrier Current Controller-General Electric, Model-4SCS17B1; Line volts-115; Control Cycles-55/65; load contracts 30 amps up to 250 volts ac.

Water Supply

Well No. 6: 606

1 Pump, Peerless, Serial No. 14747.
1 Motor, U.S. Electric Motors Inc., Ser. No. 286095; Frame-877; Amps-20/10; Volts-220/440; RPM-1500-1800; HP-7½; Type-CFU; Phase-3; Code-G.
1 Switch, shutlbrak, Frank Adams Elec.Co., Type-A; Amps-100; Volts-230AC; Max.HP-15; Volts-125/250DC; Cat.No.SA10333.
1 Switch, starter, Cutler & Hammer; No. 9586H2518A; Volts-220; Cycles-60; Size-2; Pole-3.
1 Reverse Phase Voltage Relay, Westinghouse, Type-CP; Cycles-60; Phase-3; Volts-115; Ser.NO. 1142219; Style-105-6283A.
1 Series Resistance, Westinghouse, Ser. 1142219; Ohms-485 x 3.
1 Valve, check, MHV&F Co., UAFM; Size-6"; Pressure-175 lbs.
1 Carrier Current Controller, General Electric, Model-4SCS17B1; Line volts-115; Control Cycles-55/65; Load contracts 30 amps up to 250 volts AC.

Well No. 7: 607 - #30

1 Pump, Peerless. (No serial number).
1 Motor, Electric, U.S. Electric Motors Inc., Ser.No. 286102; Frame-877; Amps-21.2-10.6; HP-7½; Type-CFU; Phase-3; Volts-208-416; Code-G; RPM-1500 at 50 cycles-1800 at 60 cycles.
1 Valve, check, Grinnell; Size-6"; Pressure-175 lbs.
1 Switch, Trumbull Electric Mfg. Co., enclosed safety electric switch; Type-RBA; No. 66323; Amps-100; Pole-3; Volts-230AC; Max HP-15.
1 Switch, starter, U.S. Electric Motors Inc., No. 9586H3147A; Volts-220; Cycles- 50 to 60.
1 Carrier Current Controller, General Electric, Model-4SCS17B1; Line volts-115; Control Cycles-55/65; Load contracts 30 amps up to 250 volts AC.

Well No. 8: 608

1 Pump, Layne & Bowler, Inc.; Turbine Pump; Ser.No. 12212.
1 Johnson Drive; Ser. No. 7312; Model-3930; 29BPH at 1750 RPM of pump ratio 1 1/3 x 1.
1 Valve, check, MHV&F Co., UAFM; Size-6"; Pressure-175 lbs.
1 Motor, U.S. Electric Motors, Inc., No. 303899; Frame-877; HP-7½; Type-CFU; Phase-3; Code-G; Volts-220/440; Amps-20/10; RPM-1800 at 60 cycles.
1 Switch, shutlbrak, Frank Adams Electric Co., Type-A; Amps-100; Volts-230AC; Max.HP-15AC; Volts-125-250DC; Cat. No. SA10333.
1 Switch, starter, U.S. Electric Motors Inc., Ser.No.9586H3147A; Volts-220; Cycles-50 to 60.
1 Motor, gasoline; Allis-Chalmers; Aux. drive. No. PU13821-B.
1 Carrier Current Controller, General Electric, Model-4SCS17B1; Line volts-115; Control Cycles-55/65; Load contracts 30 amps up to 250 volts AC.

Well No. 9: 609

1 Pump, Layne & Bowler; Turbine Pump; Ser.No. 12113.
1Motor, U.S. Electric Motors, Inc.; Ser.No. 303893; Frame-877; Amps-20/10; Volts-220-440; HP-7½; Type-CFU; Phase-3; Code-G; 1800 RPM; Cycles-60.
1 Enclosed Electric Switch; Trumbull Electric Mfg. Co., Cat. No. 40323; Amps-100; Pole-3; Volts-230AC; Max.HP-15.
1 Starter Switch, Cutler & Hammer; No. 9586H3147A; Volts-220; Cycles-50 to 60; Type-2; Pole-3.
1 Reverse Phase Voltage Relay, Westinghouse; Ser.1142220; Cycles-60; Phase-3; Volts-115; Style-1056283A.
1 Series Resistance, Ser. No. 1142220; Ohms-485 x 3.
1 Valve, check, MHV& F Co.; UAFM; Size-6"; Pressure-175 lbs.
1 Carrier Current Controller, General Electric, Model-4SCS17B1; Line volts-115; Control Cycles-55/65; Load contracts 30 amps up to 250 volts AC.

Well No. 10: 610

1 Pump, Layne Bowler, Turbine Pump, Ser. No. 12114.
1 Gear Drive, Johnson Gear & Mfg. Co., Ltd.; Ser. No. 7311; Model 3930; RPM-1750; Ratio 11 1/3 to 1.
1 Motor, U.S. Electric Motors Inc., Ser. No. 303892; Frame-877; HP-7½; Volts-220/440; Amps-20/10; Type-CFU; Phase-3; Code-G; RPM 1800 at 60 cycles.
1 Motor, gasoline, aux.drive; Allis Chalmers Mfg. Co., Ser.No. PU13817R.
1Switch, shutlbrak, Frank Adams Electric Co.; Type-A; Amps-100; Volts-230AC; Max.HP-15AC; Volts-125-250 DC; Cat. No. SA10333.
1 Switch, starter, Cutler Hammer; Ser. No. 9586H2518A; Volts-220; Cycles-60; Size-2"; Pole-3.
1 Reverse Phase Voltage Relay, Westinghouse, Type-CP; Cycles-60; Volts-115; Ser.No. 1142215; Style-1056283-A; Phase-3.
1 Series Resistance, Westinghouse, Ser.No.1142215; Ohms-485 x 3.
1 Valve, check, MHV&F Co., UAFM; Size-6"; Pressure-175 lbs.
1 Carrier Current Controller, General Electric, Model-4SCS17B1; Line volts-115; Control Cycles-55/65; Load contracts 30 amps up to 250 volts AC.

4 1 1 2 2

Water Supply

Well No. 11: 611

1 Pump, Turbine pump, Layne & Bowler Inc., Ser. No. 12338.
1 Valve, check, Size-6"; No.22-150 WSP.
1 Motor, U.S. Electric Motors, Inc., Ser.No.304119; Frame-882; HP-10; Volts-220/440; Amps-27/13½; Type-CFU; Phase-3; Code-F; 1800 RPM at 60 cycles.
1 Switch, shutlbrak, Frank Adams Electric Co., Type-A; Amps-100; Volts-230AC; Max.HP-15AC; Volts-125-250 DC; Cat.No. SA10333.
1 Switch starter, U.S. Electric Motors Inc., No. 9586H3147A; Volts-220; Cycles-50 to 60; Size-2"; Pole-3.
1 Carrier Current Controller, General Electric, Model-4SCS17B1; Line volts-115; Controll cycles 50 to 60.

Well No. 12: 612

1 Pump, Turbine pump, Layne & Bowler Inc., Ser. No. 12341.
1 Valve, check, Size-6"; 150 WSP-No.22.
1 Motor, U.S. Electric Motors Inc., Ser.No. 283971; Frame-877; HP-7½; Volts-220/440; Amps-20/10; Type-CFU; Phase-3; Code-G; 1800 RPM at 60 cycles.
1 Switch, shutlbrak, Frank Adams Electric Co., Type-A; Amps-100; Volts-230 AC; Max.HP-15AC; Volts-125-250 DC; Cat.No. SA10333.
1 Starter Switch, Westinghouse, De-ion line starter; Class-11200S2; Size-2DN; Style-999206A; Mech.Parts Style-974114A; Volts-110-208-220; Cycles-25-60-60.
1 Carrier Current Controller, General Electric, Model-4SCS17B1; Line volts-115; Controll cycles 50 to 60.

Well No. 13: 613

1 Pump, Turbine pump, Layne Bowler Inc., Ser.No. 12115.
1 Drive, Johnson, No. 7310; Model-3930;29B HP at 1740 RPM of pump.
1 Valve, check, Size-6"; No. 22; 150 WSP.
1 Motor, U.S. Electric Motors Inc., Ser.No. 304090; Frame-882; HP-10; Volts-220/440; Amps-27/13½; Type-CFU; Phase-3; Code-F; 1800 at 60 cycles RPM.
1 Motor, gasoline, Aux.drive; Allis Chalmers Mfg. Co., No.PU13814-B.
1 Switch, shutlbrak, Frank Adams Electric Co.; Type-A; Amps-100 Volts-230 AC; Max.HP-15AC; Volts-125-250DC; Cat.No.SA10333.
1 Starter Switch, Westinghouse, Class-11200S2; Style-999206A; Mech.Parts style No.974114A; Volts-110-a08-220; Cycles-25-60-60; Size-2DN.
1 Reverse Phase Voltage Relay, Westinghouse, Type-CP; 60 cycles; Volts-115; Phase-3; Ser.No.1142244; Style-1056283-A.
1 Series Resistance, Westinghouse, Ser.No.1142244; Ohms-485 x 3.
1 Carrier Current Controller, General Electric; Model-4SCS17B1; Line volts-115; Controlls cycles 55 to 60.

Well No. 11:

1 Pump, Turbine pump, Layne & Bowler Inc., Ser. No. 12336.
1 Valve, check, Size-6"; No. 22-150 WSP.
1 Motor, U.S. Electric Motors Inc., Ser.No. 304119; Frame-582; HP-15; Volts-220/440; Amps-37/18.5; Type-CFU; Phase-3; Code-F; 1800 RPM at 60 cycles.
1 Switch, shutlbreak, Frank Adams Electric Co.; Type-4; Amps-100; Volts-230AC; Max.HP-15AC; Volts-125-250 DC; Cat.No. 5A1039.
1 Switch starter, U.S. Electric Motors Inc., No. 3566931748; Volts-220; Cycles-50 to 60; Size-2½; Pole-3.
1 Carrier Current Controller, General Electric, Model-4CS31YB1; Line volts-115; Controll cycles 50 to 60.

Well No. 12:

1 Pump, Turbine pump, Layne & Bowler Inc., Ser. No. 12341.
1 Valve, check, Size-6"; 150 WP-No.22.
1 Motor, U.S. Electric Motors Inc., Ser.No. 283971; Frame-477; HP-7½; Volts-220/440; Amps-20/10; Type-CFU; Phase-3; Code-G; 1800 RPM at 60 cycles.
1 Switch, shutlbreak, Frank Adams Electric Co., Type-4 Amps-100; Volts-230 AC; Max.HP-15AC; Volts-125-250 DC; Cat.No. 5A1039.
1 Starter switch, Westinghouse, De-Ion line starter; Class-11200SS; Size-20M; Style-999206A; Mech.Parts Style-971114A; Volts-110-220-220; Cycles-25-60-60.
1 Carrier Current Controller, General Electric, Model-4CS31YB1; Line volts-115; Controll cycles 50 to 60.

Well No. 13:

1 Pump, Turbine pump, Layne Bowler Inc., Ser.No. 12345.
1 Drive, Johnson, No. 7310; Model-5990; 298 HP at 1760 RPM of pump.
1 Valve, check, Size-6"; No. 22; 150 WSP.
1 Motor, U.S. Electric Motors Inc., Ser. No. 304090; Frame-442; HP-10; Volts-220/440; Amps-27/13.5; Type-CFU; Phase-3; Code-F; 1800 at 60 cycles RPM.
1 Motor, gasoline, Aux. Drive; Allis Chalmers Mf. Co., No. U1581-S.
1 Switch, shutlbreak, Frank Adams Electric Co.; Type-4; Amps-100 Volts-230 AC; Max.HP-15AC; Volts-125-250DC; Cat.No.5A1039.
1 Starter switch, Westinghouse; Class-11200SS; Style-999206A; Mech. Parts Style No.971114A; Volts-110-220-220; Cycles-25-60-60; Size-20M.
1 Reverse Phase Voltage Relay, Westinghouse, Type-CP; 60 cycles; Volts-115; Phase-3; Ser.No.1142284; Style-1052103-A.
1 Series Resistance, Westinghouse, Ser.No.1142284; Class-225 A.C.
1 Carrier Current Controller, General Electric; Model-4CS31YB1; Line volts-115; Controlls cycles 50 to 60.

Water Supply

Well No. 14: 614

1 Pump, Turbine Pump, Layne & Bowler Inc., Ser.No. 12339.
1 Valve, check, MHV&F Co., UAFM; Size-6"; Pressure-175 lbs.
1 Motor, U.S. Electric Motors Inc., Ser.No.304121; Frame-882; HP-10; Type-CFU; Volts-220/440; Amps-27/13½; Phase-3; Code-F; 1800 RPM at 60 cycles.
1 Switch starter, U.S. Electric Motors Inc., No.9586H3147A; Volts-220; Cycles-50 to 60.
1 Switch, shutlbrak, Frank Adams Electric Co., Type-A; Amps-100; Volts-230AC; Max.HP-15AC; Volts-125-250 DC; Cat.No. SA10333.
1 Carrier Current Controller, General Electric, Model-4SCS17B1; Line volts-115; Controll Cycles 50 to 60.

Well No. 15: 615

1 Pump, Turbine pump, Layne & Bowler Inc., Ser.No. 12342.
1 Valve, check, MHV&F Co.; Size-6"; Pressure-175 lbs.
1 Motor, U.S. Electric Motors, Inc., Ser.No. 283977; Frame-877; HP-7½; Volts-220/440; Amps-20/10; Type-CFU; Phase-3; Code-G; 1800 RPM at 60 cycles.
1 Switch, shutlbrak, Frank Adams Electric Co., Type-A; Amps-100; Volts-230AC; Max.HP-15AC; Volts-150-250DC; Cat.No.SA 10333.
1 Switch starter, Westinghouse, De-ion Line Starter, Mech.Parts Style-974114A; Volts-110-208-220; Cycles-25-60-60; Size-2-DN.
1 Carrier Current Controller, General Electric, Model 4SCS17B1; Line volts-115; Control Cycles 50 to 60.

Well No. 16: 616

1 Pump, Turbine Pump, Layne & Bowler Inc., No. 123340.
1 Valve, check, MHV&F Co., UAMF; 6"; Pressure-175 lbs.
1 Motor, U.S. Electric Motors Inc., Ser.No. 304120; Frame-882; HP-10; Volts-220/440; Amps-27/13½; Type-CFU; Phase-3; Code-F; 1800 RPM at 60 cycles.
1 Switch, shutlbrak, Frank Adams Electric Co., Type-A; Amps-100;Volts-230 AC; Max.HP-15; Volts-125-250 DC; Cat.No. SA10333N.
1 Switch starter, Westinghouse, De-ion Line Starter, Class-11200S2; Style-999206A; Mech.Parts Style-974114A; Volts-110-208-220; Cycles-25-66-66; Size-2-DN.
1 Reverse Phase Voltage Relay, Westinghouse, Type-CY; Ser.No.1142218; Cycles-60; Style-1056283A; Phase-3; Volts-115; Ohms-485..
1 Series Resistance, Westinghouse, Ser.No. 1142218; Ohms-485 x 3.
1 Carrier Current Controller, General Electric, Model 4SCS17B1; Volts-115; Cycles-55 to 65.
1 Chlorinator, Wallace & Tiernan,Ser.N19996.
1 Pump, booster, Westico Turbine Pump, Fairbanks Morse & Co.,Ser.K147BFD26446.
1 Motor, Crocker-Wheeler Co.,Size-ALH-225; HP-3; Type-SC;RPM-1720; Volts-220/440; Amps-8 3/10-4 15/100; Phase-3; Cycles-60; No. 1038711.
1 Controll Switch, General Electric, CR70006-D-51GE; Cat.6938804-G103; Volts-208-220; Cycles-60.

Water Supply

Well No. 17: 617

1 Pump, Turbine pump, Worthington Pump & Mach. Corp.,Size-8; 6000DE-4; Ser.No. T-4469.
1 Drive, Amarillo, No. 1298; Ratio-1-10; HP-26; RPM-1760.
1 Valve, check, MHV&F Co., UAMF; Size-6"; Pressure-175 lbs.
1 Motor, U.S. Electric Motors Inc., Ser.No. 304126; Frame-882; HP-10; Type-CFU; Volts-220-440; Amps-27/13½; Phase-3; Code-F; 1800 RPM at 60 cycles.
1 Switch, shutlbrak, Frank Adams Electric Co., Type-A; Amps-100; Volts-230AC; Max.HP-15AC; Volts-125-250 DC; Cat. No. SA10333.
1 Magnetic Starter Switch, General Electric, No. CR7006-D30B; Cat.No.4381269G103; Cohtroll Volts-220; Cycles-60.
1 Carrier Current Controller, General Electric, Model-4SCS17B1; Volts-115; Cycles-55/65.
1 Motor, gasoline, aux.drive, Wisconsin Motor Corp., Type-VE4-1; No.272414; Size-3 x 3½.

Well No. 18: 618

1 Pump, Turbine Pump, Worthington Pump & Mach. Corp., Size-8; 600DE-3; Ser.No. T4470.
1 Valve, check, MHV&F Co., UAMF; Size-4"; Pressure-175 lbs.
1 Motor, U.S. Electric Motors Inc., Ser.No.302784; Frame-284-4; HP-7½; Volts-208/416; Amps-22 9/10/11½; Type-HWI; Phase-3; Code-G; RPM 1800 at 60 cycles.
1 Switch, shutlbrak, Frank Adams Electric Co., Type-A; Amps-100; Volts-230AC; Max.HP-15; Volts-125-250 DC; Cat. No. SA10333.
1 Magnetic Switch Starter, General Electric; CR7006-D30B; Cat.No.4381369G103.
1 Carrier Current Controller, General Electric, Model 4SCS17B1; Volts-115; Cycles-55 to 65.

Well No. 19: 619

1 Pump, Turbine Pump, Worthington Pump & Mach. Corp. Size-8-600DE-3; Ser.No.T4471.
1 Valve, check, MHV&F Co. UAMF; Size-6"; Pressure-175 lbs.
1 Motor, U.S. Electric Motors Inc., Ser.No. 291586; Frame-284-4; HP-7½; Volts-208-416; Amps-22 9/10-11½; Type-HWI; Phase-3; Code-G; 1800 RPM at 60 cycles.
1 Switch, shutlbrak, Frank Adams Electric Co., Type-A; Amps-100; Volts-230AC; Max.HP-15; Volts-125-250 DC; Cat.No. SA10333.
1 Magnetic Starter Switch, General Electric, CR7006-D-30B; Cat.No.4381269G103.
1 Carrier Current Controller, General Electric, Model 4SCS17B1; Volts-115; Cycles-55 to 65.

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Water Supply

Well No. 20: 620

1 Pump, Turbine Pump, Worthington Pump & Mach. Corp.; Size-8-6000DE-3; Ser.No. T4472.
1 Valve, check, MHV&F Co., UAMF; Size-4"; Pressure-175 lbs.
1 Motor, U.S. Electric Motors Inc., Ser.No.334372; Frame-284-4; HP-7½; Volts-208/416; Amps-22 9/10 - 11½; Type-HWI; Phase-3; Code-G; 1800 RPM at 60 cycles.
1 Switch, shutlbrak, Frank Adams Electric Co., Type-A; Amps-100; Volts-230AC; Max.HP-15; Volts-125-250DC; Cat.No. SA10333.
1 Starter Switch, Allen & Bradley Electric Co., Size-2; form-2; Phase-3; Series-209HCB2; Cycles-60; Volts-220/208.
1 Carrier Current Controller, General Electric, Model-4SCS17B1; Volts-115; Cycles-55 to 65.

Well No. 21: 621

1 Pump, turbine, Worthington Pump & Mach. Corp.,Size-8-6000DE-3; Ser.No.T4473.
1 Valve, check, MHV&F Co., UAMF; Size-6"; Pressure-175 lbs.
1 Drive, Amarillo; No. 1299; Ratio-1 to 10; HP-26 at 1760 RPM of pump.
1 Motor, U.S. Electric Motors Inc., Ser.No. 291575; Frame-284-4; HP-7½; Volts-208/416; Amps-22 9/10 - 11½; Type-HWI; Phase-3; Code-G; 1800 RPM at 60 cycles.
1 Switch, shutlbrak, Frank Adams Electric Co., Type-A; Amps-100; Volts-230 AC; Max.HP-15AC; Volts-125-250 DC; Cat. No. SA 10333.
1 Magnetic Starter Switch, General Electric, CR7006D30B; Cat.No.4381269G103.
1 Carrier Current Controller, General Electric, Model 4SCS17B1; Volts-115; Cycles-55 to 65.
1 Motor, gasoline, Aux.drive, Wisconsin Motor Corp., Type-DE4-1; No.272413; Size-3x3½.

Swimming Pool-Area #5 Bldg.#540 (Hadnot Point)

1. Unit #1 - Circulating Pump:
   (a) 1 Pump, circulating, Weinman Pump Co., Ser.No. 33783; Type-L-Z; Size-6"; Stage-1; RPM-1800; GPM-1200; Head-70'.
   (b) 1 Motor, Sterling Electric Co., Ser.No. 144724; Type-K-F; Frame-365; Phase-3; HP-25; Volts-208/416; Amps-63.5/31.8; Cycles-60; RPM-1800.
   (c) 1 Switch, safety, Trumbull Electric Co., Type-RBA; Cat.No.66324; Pole-3; Volts-230.
   (d) 1 Switch starter, Westinghouse Electric Co., Class-11200SS; Volts-220; Style-941902; Cycles-60.
   (e) Valves
   2-10" Crane 100 lbs.
   1-12" Crane 100 lbs.
   1 Check valve, 10", 150 lbs.
   (f) 1 Strainer, Mueller Steam Specialty Co.; Size-12"; No. 917.

2. Unit #2 - Venturie Meter Manometer:
   (a) 1 Venturie Meter Manometer, Builders Iron Foundry Co., No. 56270.

3. Unit #3 - Filters:
   (a) 3 Filters, Permutit Co., Size-8' x 20'; GPM-400 ea.; Job-BKE34578.
   (b) Valves
   3 Crane, Hand operated, 8", 200 lbs. pressure
   3 Crane, Hand operated, 6", 200 lbs. pressure
   1 Chapman, check, 10", 150 lbs. pressure.

4. Unit #4 - Chemical Feed Pumps:
   1.(a) 1 Pump, Milton Roy Pump Co., Job. No. 3654-2; Model No. 1-1A5-75-P; Pressure-50 lbs.; Stroke-3".
   (b) 1 Motor, G.E. Gearmaster, General Electric Co., Motor No. 5KH45AB854A; Gear No. 76W712D ≠ 1; HP-1/6; Volts-115; Amps-2.6; Cycles-60; Motor RPM-1725; Gear RPM-74.
   2.(a) 1 Pump, Milton Roy Pump Co., Job. No. 3654-7; Model No. 1-1A5-74-P; Pressure-50 lbs. Stroke-3".
   (b) 1 Motor-G.E. Gearmaster, General Electric Co., Motor No. 5KH45AB854A; Gear No. 76W712D ≠ 1; HP-1/6; Volts-115; Amps-2.6; Cycles-60; Motor RPM-1725; Gear RPM-74.
   3.(a) 1 Pump, Milton Roy Pump Co., Job. No. 3654-8; Model No. 1-1A5-74-P; Pressure-50 lbs. Stroke-3".
   (b) 1 Motor, G.E. Gearmaster, General Electric Co., Motor No. 5kh45AB854A; Gear No. 76W712D ≠ 1; HP-1/6; Volts-115; Amps-2.6; Cycles-60; Motor RPM-1725; Gear RPM-74.

5. Unit #5 - Water Meter:
   (a) 1 Meter, water, Neptune Meter Co., Trident Serial No. 6629790; Size-3/4".

6. Unit #6 - Chlorinator:
   (a) 1 Chlorinator, Wallace & Tiernan Co., Manual visible vacuum, Type-MSV; Serial No. M1349.

7. Unit #7 - Exhaust Fan:
   (a) 1 Exhaust Fan, American Blower Corp., Model No. 150-B-1; Serial No. 11617.
   (b) 1 Motor, General Electric Motor Corp.; Model-5KC63AB334A; Type-KC; Frame-63A; HP-1/2; Volts-115/280; Amps-7/3.5; Cycles-60; Phase-1; RPM-1725.

8. Unit #8 - Ammoniater:
   (a) 1 Ammoniater, Wallace & Tiernan Co., Direct feed ammoniater; Type-MDPA-M; Serial No. N5144.

9. Unit #9 - Pool Cleaner:
   (a) 1 Pool cleaner, Ralph B. Carter Co., Ser.No. 701-1½-A; Shop.No.11986.
   (b) 1 Suction Cleaning Tool, Standard Pool Cleaning Company, TVEC No.2129.
   (c) 1 Motor, General Electric, Model N228; Type-K; Frame-204; Code-L; Serial No. JY17303; HP-1½; Volts-208/416; Amps-9.34/4.67; Cycles-60; RPM-1730.
   (d) 1 Switch, Moniter Electric Co., Ser.No. AG7254; Type-G333VKF1; Size-1 Style-V.

10. Unit #10 - Condensate Pump:
   (a) 1 Pump, Arora Pump Co., No. 115B78250 B.F.
   (b) 1 Motor, Westinghouse, Ser.No.20943, Style-1077358X; Type-CS; Frame-254: Class-1; HP-5; Volts-208; Amps-3.2; Cycles-60; Phase-3; RPM-1750.
   (c) 1 Switch, safety, Trumbull Electric Co., Cat.No. 66321; Type-RBA; Amps-30; Volts-230; Phase-3.

11. Unit #11 - Condensate Pump:
   (a) 1 Pump, Arora Pump Co., No. 115B78251B.F.
   (b) 1 Motor, Westinghouse, Serial No. 22143; Style-1077358X; Type-CS; Frame-254; Class-1.
   (c) 1 Switch, safety, Trumbull Electric Co., Cat.No. 66321; Type-RBA; Amps-30; Volts-230; Phase-3.

12. Unit #12 - Valves, miscellaneous:
   (a) 1 Valve, hand operated, Mueller, 12"; Pressure-100 lbs.
   (b) 2 Valves, hand operated, Mueller, 10"; Pressure-100 lbs.
   (c) 4 Valves, hand operated, Crane, 10"; Pressure-200 lbs.
   (d) 4 Valves, Hand operated, Crane, 6"; Pressure-200 lbs.
   (e) 1 Valve, Hand operated, Mueller, 6"; Pressure-100 lbs.
   (f) 12 Valves, hand operated, Crane, 3"; Pressure-150 lbs.

Swimming Pool-Paradise Point Bldg.#2615

1. Unit #1 - Pump:
   (a) 1 Pump, Weinman Pump Mfg. Co., Ser.No.33859; Type-L-3; Size-6"; Stage-1; RPM-1800; GPM-520; Head-52'.
   (b) 1 Motor, Sterling, Electric Motor Co., Ser.No.114067; Type-KF; Frame-324; HP-10; RPM-1800; Volts-208/416; Amps-27.5/13.8; Cycles-60; Phase-3.
   (c) 1 Switch, safety; Trumbull Electric Co., Cat.No.33363; Type-RBA; Amps-100; Volts-550; Phase-3.
   (d) 1 Switch, starter, General Electric Co., Cat.No.4381269G103; Type-B; Volts-208/220; Cycle-60.
   (e) 1 Valve, handoperated, Crane; Size-8"; Pressure-300 lbs.
   (f) 1 Valve, handoperated, Crane; Size-8"; Pressure-200 lbs.
   (g) 1 Valve, check, Chapman; Size-8"; Pressure-150 lbs.

2. Unit #2 - Pump:
1. (a) 1 Pump, Milton Roy Pump Co., Model No. 12558-P; Job.NO.3680-1; Pressure-50 lbs; Strock-3".
   (b) 1 Motor, General Electric Gear Motor; Motor No. 5KH-45A-b854-A; Gear Speed-99; Gear No. 7GW712C-T-1; Ratio-17.5-1; HP-1/6; RPM-1725; Cycles-60; Volts-115; Amps-2.6; Phase-1.
2. (a) 1 Pump, Milton Roy Pump Co., Model No. 12558-P; Job.No.3680-2; Pressure-50 lbs.; Stroke-3";
   (b) 1 Motor, General Electric Gear Motor, Motor No.5KC45AB1163A; Gear No.7GW712D/1; Gear Speed-74; Ratio 23.5-1; HP-1/4; RPM-1725; Volts-115; Amps-4.0; Phase-1; Cycles-60.
3. (a) 1 Pump, Milton Roy Pump Co., Model No. 12558-P; Job No.3680-3; Stroke-3"; Pressure-50 lbs.
   (b) 1 Motor, General Electric Gear Motor; Motor No.5KC45AB116-3-A; Gear Speed-58; Gear No. 7-GW-712-E-1; Ratio-30-1; HP-1/4; RPM-1725; Volts-115; Phase-1; Amps-4.0; Cycles-60.

3. Unit #3 - Filters:
   (a) 3 Filters, Permutit Pressure Filters; No. 3; Size-102"; GRM-170; Job.35325.
   (b) 6 Valves, Hand operated, Crane; Size-6"; Pressure-200 lbs.

4. Unit #4 - Venturi Meter Monometer:
   (a) 1 Venturi Meter Manometer, Builders Iron Foundry; Size-8x3.25; No.53278.

5. Unit #5 - Chlorinator:
   (a) 1 Chlorinator, Wallace & Tiernan Co., Manual visible Vacuum; Type-MSV; Ser.No.N4573.

6. Unit #6 - Ammoniater:
   (a) 1 Ammoniater, Wallace & Tiernan Co., Direct feed ammoniater; Type-MDP-M; Ser. No.N4973.

1. Unit 21 - Dyno:

(a) 1 Fan, Ventilating Blower Co., Model No. 1250-F; Type-A; Drive-Belt; Speed-1200; HP-250; Head-10".

(b) 1 Motor, Variable Speed, Electric Motor Co., Ser.No.11A207; Type-AT; Frame-324; HP-100; RPM-1000; Volts-2300/1150; Amps-27.3/13.6; Cycles-60; Phase-3.

(c) 1 Starter, Safety, Manual Electric Co., Cat.No.3703; Type-FSR; Type-100; Volts-550; Phase-3.

(d) 1 Switch, Starter, General Electric Co., Cat.No.3703D6903; Type-H; Volts-550/220; Poles-10.

(e) 1 Valve, Manual Butterfly, Crane; Size-8"; Pressure-250 lbs.

(f) 1 Valve, Manual Relief, Crane; Size-8"; Pressure-250 lbs.

(g) 1 Valve, Check, Chrysan; Size-8"; Pressure-150 lbs.

2. Unit 22 - Pump:

1. (a) 1 Pump, Allied Corp Proj Co., Model No. 12510-F; Job No.3580-1; Pressure-50 lbs; Speed-1800.

(b) 1 Motor, General Electric Co., Ser.No. 3A-1-1/2; Type-Induction; Phase-3; Cycles-60; Volts-440; Amps-21; HP-5.0; RPM-1750.

2. (a) 1 Pump, Allen Roy Pump Co., Model No. 12550-F; Job No.3580-2; Stroke-3"; Speed-90; Ratio 25:1; HP-1/4; RPM-1725; Volts-115; Amps-6.0; Phase-1; Cycles-60.

(b) 1 Motor, General Electric Co., Ser.No.3A-1-1/4; HP-1/4; RPM-1725; Volts-115; Cycles-60.

3. Unit 23 - Pressure:

(a) 1 Tank, Pressure Vessel Co., Job No.3580-3; Pressure-50 lbs; Capacity-120 gal.

4. Unit 24 - Accumulator:

(a) 1 Accumulator, Hydraulic & Pneumatic Co., Model No. 1250-A; Type-Piston; Size-8"; Pressure-250 lbs.

7. Unit #7 - Pool Cleaner:
   (a) 1 Pool Cleaner, Ralph B. Carter Co., Ser.No.701-1½A; Shop No.11989.
   (b) 1 Motor, U.S. Electric Co., Ser.No.313425; Type-SC; Frame-204-4; Code-H; HP-1½; Volts-208/416; Amps-409/2.45; Cycles-60; Phase-3; RPM-1800.
   (c) 1 Switch, Monitor; Baltimore, MD. Ser.No.A67254; Type-6333VKF1; Volts-110/220; Phase-1.
   (d) 1 Suction Cleaning Tool; Standard Pool Cleaning Co., Trec.No.2131.

8. Unit #8 - Water Meter:
   (a) 1 Meter, water, Neptune Meter Co., Trident No.6631389; Size-3/4".

9. Unit #9 - Strainer:
   (a) 1 Strainer, Muller Strainer Specialty Co., No. 911; Size-8".

10. Unit #10 - Valves:
   (a) 2 Valves, Crane, Size-3"; Pressure-300 lbs.
   (b) 3 Valves, Mueller, Size-8"; Pressure-300 lbs.
   (c) 3 Valves, Crane, Size- 8"; Pressure-200 lbs.

Reservoirs - Tent Camp:-

Reservoir #1 - Bldg 506

1 Aurora Pump, Aurora Pump Co., No. 15084; Type-NSA; Size-1A; GPM-25; Head ft.-25; RPM-1750.
1 Motor, Louis Allis Co., Type-ElS; Code-D; Volts-208; Cycles-60; Frame-163; H.P.-0.5; Class-2B; Form-B; RPM-1740; Phase-3; Amps-1.6; Contract No. 562606.

Reservoir #2 - 503

1 Aurora Pump, Aurora Pump Co., No. 15076; Type-NSA; Size-1A; GPM-25; Head ft.-25; RPM-1750.
1 Motor, Louis Allis Co., Type-KlS; Code-D; Volts-208; Cycles-60; Frame-163; H.P.-0.5; Class-2B; Form-C; RPM-1740; Phase-3; Amps-1.6; Contract No. 562605.

Water Treating Plant — Bldg. #501 (Tent Camp)

1. Unit #1 - Pump:
   (a) 1 Pump, Delaval, Steam Turbin Co., Ser.No. 236114; RPM-1760; GPM-740; Head-160 ft.
   (b) 1 Motor, Westinghouse Electric Co., Ser.No.1741; Style-1077697; Frame-444; Type-CS; Code-F; HP-40; Volts-220/440; Amps-97.3/48.6; Cycles-60; Phase-3; RPM-1760.
   (c) 1 Switch, safety, Shutlbrack, Frank Adams Electric Co., Cat.No.40333; Type-A; Volts-230; Amps-400.
   (d) 1 Starter Switch, General Electric Co., Cat.No. 438398163; CR7006-D7E; Volts-208/220; Cycles-60; Phase-3; HP-30.
   (e) 2 Valves, hand operated, MHV&F Co., Size-8"; Pressure-200 lbs.
   (f) 1 Valve, check, Chapman, Size-8"; Pressure-150 lbs.

2. Unit #2 - Pump:
   (a) 1 Pump, Worthington Pump Co., Ser.No.1048335; RPM-1770; GPM-740; Head-160 ft.
   (b) 1 Motor, Westinghouse Electric Co., Ser.No.1136; Type-CS; Style-798787; Frame-444; HP-40; Volts-220/440; Amps-93.6/46.8; Cycles-60; Phase-3; RPM-1770.
   (c) 1 Switch, safety; Westinghouse; Cat.No.CF325; Style-997510; Amps-400; Volts-230.
   (d) 1 Switch, starter, General Electric, Cat.No.438126163; CR7006-D31E; HP-25.
   (e) 1 Engine, gasoline, Continental Motor Corp., No. E610-127.
   (f) 1 Valve, hand operated, MHV&F Co., Size-8"; Pressure-D-100.
   (g) 1 Valve, hand operated, MHV&F Co., Size-8"; Pressure-200 lbs.
   (h) 1 Valve, check, MHV&F Co., Size-8"; Pressure-175 lbs.

3. Unit #3 - Pump:
   (a) 1 Pump, Worthington Pump Co., Ser.No. 1048341; RPM-1770; GPM-740; Head-160 ft.
   (b) 1 Motor, Westinghouse Electric Co., Ser.No.1236; Type-CS; Style-798787; Frame-444; HP-40; Volts-220/440; Amps-93.6/46.8; Cycles-60; Phase-3; RPM-1770.
   (c) 1 Switch, safety, Westinghouse, Cat.No.CF325, Style-997510; Amps-400; Volts-230.
   (d) 1 Switch, starter, Westinghouse, Style-941922A; Class-11200S4; Volts-208/220; Cycles-60.
   (e) 1 Valve, hand operated, MHV&F Co.; Size-8"; Pressure-D-100.
   (f) 1 Valve, hand operated, MHV&F Co.; Size-8"; Pressure-200 lbs.
   (g) 1 Valve, check, MHV&F Co., Size-8"; Pressure-175 lbs.

4. Unit #4 - Switch:
   (a) 1 Switch, safety, Westinghouse; Cat.No. DE323; Style-998580A; Amps-100; Volts-230.

5. Unit #5 - Meter:
   1 (a) 1 Meter, Sparling Meter Co., Main line meter; No.8877;
   (b) 1 Meter, flow, Sparling Meter Co., Water Control Equipment No.1385; GPM-100.
   2 (a) 1 Meter, Sparling Meter Co., Maine line meter; No.8872.
   (b) 1 Meter, flow, Sparling Meter Co., Water Control Equipment No.1386; GPM-100.
   3 (a) 1 Meter, Sparling Meter Co., Main line meter No.9792.
   (b) 1 Meter, flow, Sparling Meter Co., Water Control Equipment No.1651; GPM-100.

6. Unit #6 - Water ~~Level~~ PRESSURE Recorder:
   (a) 1 Water ~~Level~~ PRESS Recorder, Bristol Recorder; Model-40M; Ser.No.198943; Chart No.4638; Range-0-100 lbs.

7. Unit #7 - Automatic Control:
   (a) 1 Automatic Control, Automatic Control Co., Type-E2; No.3690; Volts-220; Cap.100.

8. Unit #8 - Chlorinator:
   (a) 1 Chlorinator, Wallace & Tiernan Co., Manual Visible Vacuum Chlorinator; Type-MSV; Ser.No.K2497.

BLDG 501
SPARLING ADDRESS

Wells

Tent Camp

Well "A": 104

1 Pump, rotation, A.D. Cook, Inc.; Ser.No.4873.
1 Valve, check, MHV&F Co., Size-6"; 175 lb. WP.
1 Motor, U.S. Electric Motors Inc., HP-10; Volts-220/440; Amps-27/13.5; Type-CFU; Phase-3; Frame-882; RPM-1500 at 50 cycles; RPM-1800 at 60 cycles; Ser.No.238343.
1 Switch, Square D Electric Co., Cat.No.46352; Amps-60; Volts-230AC; Pole-3.

Well "B": 100

1 Pump, turbine, Layne-Bowler, Inc., Ser.No.11168.
1 Valve, check, MHV& F Co., Size-4"; 175 lb. WP.
1 Motor, U.S. Electrical Motors Inc., HP-3; Volts-220/440; Amps-8.6/4.3; Type-HWI; Frame-822; Phase-3; 1500 RPM at 50 cycles; 1800 RPM at 60 cycles; Ser.No.212655.
1 Switch, Trumbull, Cat.No.40321; Amps-30; Pole-3; Volts-230AC (220V).
1 Reverse Phase Voltage Relay, Westinghouse, Cycles-60; Volts-115; Phase-3; Ohms-485; Style-1056283-A; Ser. No. 1142247.
1 Series Resistance, Westinghouse, Ser.No.1142247; Ohms-485 x 3.

Well "C": 300

1 Pump, turbine, Layne-Bowler Inc., Ser.No.11166.
1 Valve, check, Walworth; Size-4"; 125 lb.WP.
1 Motor, U.S. Electrical Motors Inc., HP-3; Volts-220/440; Amps-8.6/4.3; Type-HWI; Ser.No.212643; Frame-822; 1500 RPM at 50 cycles; 1800 RPM at 60 cycles.
1 Switch, Trumbull, Cat.No. 40321; Amps-30; Volts-230AC-(220V); Pole-3.
1 Reverse Phase Voltage Relay, Westinghouse, Cycles-60; Volts-115; Phase-3; Ohms-1000; Style-1056286A. Ser.No.6434S.
1 Series Resistance, Westinghouse, Ser.No.6434S; Ohms-1000 x 3.

Well "D": 502

1 Pump, rotation, A.D. Cook, Inc., Ser.No.5078.
1 Gear, Johnson Gear Mfg. Co., Ltd., Ser.No.6818; Model 3930; Ratio 1½ to 1; P32BHP at 1750 RPM of pump.
1 Valve, check, Grinnell, Size-6"; 174 lb. WP.
1 Motor, U.S. Electrical Motors Inc., HP-10; Volts-220/440; Amps-27/13.5; Type-CFU; Frame-882; Phase-3; Ser.No.249627; 1500 RPM at 50 cycles; 1800 RPM at 60 cycles.
1 Motor, gasoline, Virginia Machinery & Well Co., Ser.No. ~~27204~~. 692629
1 Switch, General Electric, Amps-60; Volts-230AC (220) Cat.No.CR7008C2x8; Pole-3.
1 Reverse Phase Voltage Relay, Westinghouse, Cycles-60; Volts-115; Phase-3; Ohms-485; Style-1056283-A; Ser.No.1142242.
1 Series Resistance, Westinghouse, Ser.No.1142242; Ohms-485 x 3.

Well "E": 600

1 Pump, turbine, Layne-Bowler, Inc., Ser.No.11165.
1 Check, valve, Walworth; Size-4"; 125 lb. WP.
1 Motor, U.S. Electrical Motors Inc., HP-3; Volts-220/440; Amps-8.6/4.3; Type-HWI; Frame-822; Ser.No. 217738; Phase-3; 1500 RPM at 50 cycles; 1800 RPM at 60 cycles.
1 Switch, Trumbull, Cat.No.72321; Amps-30; Pole-3; Volts-230AC (220V).

Well "F": 700

1 Pump, turbine, Layne-Bowler, Inc., Ser.No. 11191.
1 Valve, check, MHV&F Co., Size-4"; 175 lb. WP.
1 Motor, U.S. Electrical Motors Inc., HP-3; Volts-220/440; Amps-8.6/4.3; Phase-3; Type-HWI; Frame-822; Ser.No.212045; 1500RPM at 50 cycles; 1800 RPM at 60 cycles.
1 Switch, Trumbull, Cat.No.40321; Amps-30; Pole-3; 230AC Volts-(220V)
1 Reverse Phase Voltage Relay, Westinghouse, Cycles-60; Volts-115; Phase-3; Ohms-485; Style-1056283-A. Ser.No.114252.
1 Series Resistance, Westinghouse, Ser.114252; Ohms-485 x 3.

~~Well "G"~~: H

1 Pump, Peerless, Food Machinery Corp., Ser.No.14974.
1 Valve, check, Size-4".
1 Motor, U.S. Electrical Motors, Inc., HP-2; Volts-208/416; Amps-6.4/3.2; Type-SCU; Phase-3; Code-J; Ser.No.294844; Frame-224-4; 1500 RPM at 50 cycles; 1800 RPM at 60 cycles.
1 Switch, Trumbull, Cat.No.40322; Amps-60; Pole-3; 230AC Volts-(220V).
1 Reverse Phase Voltage Relay, Westinghouse, Cycles-60; Volts-115; Phase-3; Ohms-485; Style-1056283-A; Ser.No.1142231.
1 Series Resistance, Westinghouse, Ser.No.1142231; Ohms-485 x 3.

~~Well "H"~~: I

1 Pump, Peerless, Food Machinery Corp. Ser.No.14975.
1 Valve, check, Grinnell; Size-6"; 175 lb. WP.
1 Motor, U.S. Electrical Motors Inc., HP-5; Volts-208/416; Amps-14.8/7.4; Type-SCU; Phase-3; Frame-254-4; Ser.No.288755; 1500 RPM at 50 cycles; 1800 RPM at 60 cycles.
1 Switch, Trumbull, Cat.No.40322; Amps-60; Pole-3; 230AC Volts-(220V).
1 Reverse Phase Voltage Relay, Westinghouse, Cycles-60; Volts-115; Phase-3; Ohms-485; Ser.No.1142214; Ser.No.1056283-A.
1 Series Resistance, Westinghouse, Ser.No.1142214; Ohms-485 x 3.

WELL G
11167
LAYNE HP-3

Well "J": 504

1 Pump, Peerless, Food Machinery Corp., Ser.No.14979.
1 Gear, Turbo Peerless, Ser.No.J7255; Gear Ratio-CAl-1.
1 Valve, check, MHV&F Co., Size-6"; 175 lb. WP.
1 Motor, U.S. Electrical Motors, Inc., HP-7½; Volts-208/416; Amps-21.2/10.6; T Type-SCU; Phase-3; Frame-284-4; Ser.No.286660; 1500 RPM at 50 cycles; 1800RPM at 60 cycles.
1 Motor, gasoline, aux.drive, ~~Wisconsin Motor~~ Allis Chalmers Corp., Type-VE41; No.180120; Size-3 x 3½.
1 Clutch, Bory Warner Corp. Ser.No.4265.
1 Switch, Trumbull, Amps-60; Pole-3; 230AC Volts-(220V) Cat.No.40322.
1 Reverse Phase Voltage Relay, Westinghouse, Cycles-60; Volts-115; Phase-3; Ohms-485; Style-1056283-A; Ser.No.114233.
1 Series Relay, Westinghouse, Ser.No.114233; Ohms-485 x 3.

Well "K": 604

1 Pump, Peerless, Food Machinery Corp. Ser.No.14977.
1 Valve, check, Grinnell, Size-6"; 175 lb. WP.
1 Motor, U.S. Electrical Motors Inc., HP-5; Volts-208/416; Amps-14.8/7.4; Type-SCU; Phase-3;Ser.No.288758; Frame-254-4; 1500 RPM at 50 cycles; 1800 RPM at 60 cycles.
1 Switch, Trumbull, Cat.No.40322; Amps-60; Pole-2; Volts-230 (220V).
1 Reverse Phase Voltage Relay, Westinghouse, Cycles-60; Volts-115; Phase-3; Ohms-485; Style-1056283A; Ser.No.1142225.
1 Series Resistance, Westinghouse, Ser.No.1142225; Ohms-485 x 3.

Well "L": 1000

1 Pump, Peerless, Food Machinery Corp. Ser.No.14978.
1 Valve, check, Muller Co., Size-6"; 175 lb. WP.
1 Motor, U.S. Electrical Motors Inc., HP-5; Volts-208/416; Amps-14.8/7.4; Type-SCU; Phase-3; Frame-254-4; Ser.No.288770; 1500 RPM at 50 cycles; 1800 RPM at 60 cycles.
1 Switch, Trumbull, Cat.No.40322; Amps-60; Pole-3; 230AC Volts-(220V).
1 Reverse Phase Voltage Relay, Westinghouse, Cycles-60; 115 Volts; Phase-3; Ohms-485; Style-1056283-A; Ser.No.1142234.
1 Series Resistance, Westinghouse, Ser.No.1142234; Ohms-485 x 3.

Well "M": 1001

1 Pump, Peerless, Food Machinery Corp., Ser.No.14976.
1 Gear, Turbo, Peerless, Ser.No.J7264; Gear Ratio CAl-1.
1 Valve, check, MHV&F Co., Size-6"; 175 lb. WP.
1 Motor, U.S. Electrical Motors Inc., HP-5; Volts-208/416; Amps-14.8/7.4; Type-SCU; Frame-254-4; Phase-3; Ser.No.273532; 1500 RPM at 50 -1800 RPM at 60.
1 Motor, gasoline, aux.drive., Wisconsin Motor Corp., Type-VE41;No.180119; Size-3 x 3½.
1 Clutch, PTA; S5 1/5; Ser. 4184.
1 Switch, Trumbull, Cat.No.40322; Amps-60; Pole-3; Volts-230AC (220V).
1 Reverse Phase Voltage Relay, Westinghouse, Cycles-60; Volts-115; Phase-3; Ohms-485; Style-1056283-A; Ser.No.1142237.

Tank Park Well o T.B. 101

1 Pump, turbine, Layne-Bowler Inc., Ser.No.11665.
1 Valve, check, Grinnell, Size-4"; 175 lb. WP.
1 Motor, U.S. Electrical Motors Inc., HP-5; Volts-220/440; Amps-14/7; Type-HWI; Phase-3; Frame-254-4; Ser.No.278669; 1800 RPM at 60 cycles.
1 Switch, Wadsworth, Cat.No.29; Amps-30; Poles-2; 230AC Volts-(220V).
1 Hypochlorinator, Ser.No.5466; 110 Volts, 60 cycles.

Pump House - Rifle Range

Bldg. #RR 46

1 Pump, Turbine, Layne-Bowler Co., Ser.No.11819.
1 Valve, check, Grinnell, Size-6"; 175 lb. WP.
1 Motor, U.S. Electrical Motors Inc., Ser.No.264472; HP-15; Volts-220/440; Amps-40/20; Type-CFU; 1500 RPM at 50 cycles-1800 RPM at 60 cycles; Phase-3; Code-F; Frame-887.
1 Switch, Trumbull Electric Mfg. Co., Cat.No.66323; Amps-100; Volts-230AC; HP-15.
1 Switch, Motor Controll, Cutler & Hammer, No.9586H2518A; Volts-220; Cycles-60;
1 Reverse Phase Voltage Relay, Westinghouse, Ser.No.1142232; Style-1056283A; Cycles-60; Volts-115.
1 Series Resistance, Westinghouse, Ser.No.1142232; Ohms-485 x 3.
1 Chlor-o-Feeder, Proportioneer's Inc., Ser.No.TM9854-St. Series-4D2.
1 Motor, Diehl Electric Co., Ser.No.36796-F13; Volts-230; Amps-14; HP-1/6; Phase-1; RPM-1750.
1 Switch, Controll, Automatic Controll Co., No.5255; Type-E2; Volts-220; Amps-30.
1 Switch, single throw; Wadsworth Electric Co., No.29; Amps-30; Volts-125/250DC; 230 AC. PUMP MOVED TO N-CO. SC 4002

Bldg. #RR 80.

1 Pump, Turbine, JOHNSON ~~Layne-Bowler Co.~~, ~~No.12116.~~
1 Check Valve, Mueller Co., Size-6"; 175 lb. WP.
1 Motor, U.S. Electric Motors Inc., Ser.No.398885; HP-15; Volts-220/440; Amps-40/20; Type-CFU; Phase-3; Code-F; Frame-887; 1500 RPM at 50 cycles; 1800 RPM at 60 cy.
1 Gear Drive, Johnson, Ser.No.7205; Model 3930; Ratio 1½ to 1; 29 BHP at 1750 RPM — of pump.
1 Switch, Square D Electric Co., Ser.No.56353; Amps-100; Volts-230AC; HP-15.
1 Switch, Square D Electric Co., Ser.No.59311; Phase-3; Volts-125-250DC; Amps-30; Volts-230AC; HP-3.
1 Switch, Motor Controll; Cutler-Hammer; No.9586H2518-A; Volts-220; Cycles-60.
1 Motor, gasoline, aux.drive, Allis-Chalmers, ~~Ser.No.PUS1186B.~~
1 Chlor-o-Feeder, Proportioneer's Inc., Ser.No.TM 10336ST; Series 42.
1 Motor, General Electric, Model 5KC45AB1127A; HP-1/6; Phase-1; Type-KC; GEJ454; RPM-1725; Volts-115; Amps-2.6; Cycles-60.
1 Controll Switch, Automatic Controll Co., No.5217-A; Type-2; Volts-230; Amps-30.
1 Switch, Wadsworth Electric Co., Cat.No.29; Volts-230AC; Pole-2Amps-30; Volts-125/250 DC.

Pump Houses-Rifle Range (Continued) Bldg.#RR 50.

1 Pump, turbine, Layne-Bowler Co., Ser. No.13140.
1 Valve, check, MHV& F Co., Size-6"; 175 lb. WP.
1 Motor, U.S. Electrical Motors Inc., Ser.No.268793; HP-20; Volts-208/416; Amps-52.8/26.10; Code-E; Type-CFU; Phase-3; Frame-907; 1800 RPM at 60 cycles.
1 Switch, Square D Electric Co., Cat.No.45251; Series-4; Amps-30; Volts-250;HP-2.
1 Switch, Allen & Bradley Electric Co., Size-2; Form-2; Type-1; Series 309AC BC; Volts-220; HP-3; Cycles-60.
1 Chlor-o-Feeder, Proportioneer's Inc., No.TM-5285-ST; Series-4D2.
1 Motor, Diehl Electric Co., No.S-6796; HP-1/6; RPM-1750; Volts-110-230; Amps-14; Cycles-60; Type-SP; Phase-1.
1 Single Throw Switch, Square D Electric Co., Cat.No.46355; HP-50; Amps-400; Volts-230AC.
1 Switch, Wadsworth, Cat.No.29; Amps-30; Volts-125-250.

Bldg.#RR 51.

1 Pump, turbine, Layne-Bowler Co., No. 13139.
1 Gear Drive, Johnson, No.7993; Model 3930; Ratio-1 1/3 to 1; 29BHP at 1750 RPM of pump.
1 Valve, check, MHV&F Co., Size-6"; 175 lb.WP.
1 Motor, U.S. Electric Motors Inc., Ser.No.333977; HP-10; Volts-220/440; Amps-28.1/14.1; Type-CFU; Phase-3; Code-F; Frame-882; 1800 RPM at 60 cycles.
1 Switch, Square D Electric Co., No. 98251; Amps-30; Volts-250; HP-2.
1 Switch, Allen & Bradley Electric Co., Series 209 ACH3; Size-2; Form-2; Type-1; Phase-3; Cycles-60; Volts-220-208.
1 Motor, gasoline, aux.drive, Allis-Chalmers; Ser.No.PU14607B.
1 Chlor-o-Feeder, Proportioneer's Inc., No. TM 9028 ST.
1 Motor, Westinghouse, Style-1177146C; HP-1/6; Form-145; Type-ST; Phase-1; RPM-1725; Cycles-60; Volts-220; Amps-1.8; Ser.No.AN.
1 Switch, Wadsworth Electric Co., Cat.No.87238; Amps-290; Volts-230AC; HP-30; Poles-3.

Well "R" 2322 Emergency Well - Paradise Point

1 Pump, turbine; Layne-Bowler Co., Ser. 11820. PA# 182825
1 Gear Drive, Johnson; Ser.7508; Model-3930; Ratio-1 1/3 to 1; 32 BHP at 1750 RPM.
1 Valve, check, Mueller Co., Size-6 A inch; 175 lb pressure.
1 Motor, U.S. Electric Motors Inc., Ser.No.268777; Frame-907; HP-20; Volts-220/440; Amps-50 to 25; Hpase-3; Code-E; 1800 RPM at 60 cycles.
1 Switch, Square D. Electric Co., Cat. No.56354; Series-1; Amps-200; Volts-230AC; HP-30.
1 Motor Controll, Cutler-Hammer, No.9586H-296D; Type-B; Size-3.
1 Motor, gasoline, Aux.drive; Allis-Chalmers, No. [redacted]B. 13825 PA#182826
1 Chlor-o-Feeder; Proportioneer's Inc., Ser.No.TM99-4426-BK; Series-402.
1 Motor, Century Electric Co., Single phase; 1/4 HP; Model-CSH-65L-BHK4-3D; Volts-110; Cycles-60; RPM-750; Ser.No.U8; Amps-4 2/10.

(aux motor) Switched to well 2 at Mont Point

Emmergency High Lift Station — Bldg. #38 (Hadnot Point)

1 Pump, Goulds Pumps, Inc., Fig.3475; Size-8L; Cap.2100; Head-160';RPM-1400; No.258A109.
1 Engine, gasoline, Waukesha Multi-Fuel; Model-145-GK; Size-5¼ x 6; Ser.No.523695; Lot-434; Speg.145-GK-63L; RPM-1400.
1 Pump, sump, Yoeman Brothers., Unit Ser.No.169; Style-109692; HP-¼; Volts-115-230; Ser.No.PL14761; Type-RA; Frame-5820; Amps-4.4-2.2; RPM-1725; Cycles-60; Phase-1.
1 Switch, electric, Trumbull Electric Mfg. Co., Type-RBA; Cat.No.66322; Amps-60; Pole-3; Volts-230AC; Max.HP-7½.
1 Valve, float, Ross Valve Mfg. Co., Model-40FWR; Ser.4310.
1 Valve, hand operated, Size-8"; No. 500; 125 WP.
1 Valve, Chapman, hand operated, Size-12"; 125S-175 CWG.
1 Valve, Chapman, hand operated, Size-10"; 125S-175CWG.
1 Valve, check, Chapman, 12L22; 150 WSP.

Pump House — W. No. 43 BB Courthouse Bay

1 Pump, Turbine, Layne-Bowler Co., Ser.No. 12117.
1 Gear, Johnson, ser.#7313
1 Valve, check, Mueller Co., 6", 175 lb., wp.
1 Motor, U.S. Electric Motors Inc., ser.#304096;HP-10; volts 220/440; amps 27/13.5; type CFU-Phase 3; code F; frame 882; 1800 RPM at 60 cy.
1 Shuttbrak Switch, Frank & Adams Elec. Co, cat. #SA10333; volts 125-250DC; Max HP 15; volts 230AC; amps 100; type A.
1 Starter Switch, Westinghouse De-ion Linestarter; class 1120DS2; style 999206A; mech. parts style 974114A; size 2DW; volts 110-208-220; cyles 25-60-60.
1 Reverse Phase voltage relay, Westinghouse, 60 cyles; volts 230; phase 3; ser. #64314-S; style 10562863A.
1 Serus Resistance, Westinghouse, ser.#64314S;ohms 1000x3.
1 Electric Heater, Westinghouse, #1103868; 230 volts; 2KW.
1 Scale, Fairbanks Platform Scale Co., cap. 1000 lbs.
1 Motor, gasoline, aux-drive, Allis-Chalmers, #PU13819B.
1 Chlorinator, Wallace & Tiernan, ser.#N20173.
1 Pump, Westco-Fairbanks-Morse & Co., #E147BFD26438.
1 Motor, Crocker-Wheeler, size ALH 225; HP3; type SC; RPM 1720; PH3; amps 8.3/4.15; volts 220/440; cyles 60; #1040109.
1 Shutlbrak Switch, Frank & Adams Elec. Co., type A; volts 230 AC; amps 30; Max HP3; volts 125-250 DC-Cat. No. SA 10333.
1 Magnetic Switch-General Electric, CR7006D51-GE-Cat. No. 6938844, G-103; volts 208-220; 60 cyles.
1 Switch-Square D Electric, cat. #59311; series 2; 30 amps; volts 230AC; HP3; phase 3; volts 125-250 DC.
1 Switch-Wadworth Electric, cat.#25; volts 125-250; amps 30; poles 3.

Pump House — V. No. 44 BB Courthouse Bay

1 Pump, Peerless-Food Machinery Corp, ser. #J7478.
1 Valve, check, Grinnell, 6"; 175 lb.; WP; #38.
1 Motor, U.S. Electric Motors Inc., #307892; HP15; volts 208/416; amps 42.4/21.2; code F; type CFU; phase 3; frame 887; 1500 RPM at 50 cyles; 1800 RPM at 60 cyles.
1 Switch, Trumbull, cat. #66323; type RBA; amps 100; volts 230 AC; HP 15.
1 Switch, General Electric, cat. #4381269G103; CR7006D30B; volts 220; cyles 60; HP-15.
1 Reverse Phase Voltage Relay, Westinghouse, ser.#6438-S-style; 10562863A, 60 cyles; 230 volts; 1000 ohms; 3 phase.
1 Series Resistance, Westinghouse, #6438-S; ohms 1000x3.
1 Chlor-o-Feeder; Proportioneer's Inc., ser.#TM-9027-ST, series 4D2.
1 Motor, Westinghouse, type FHt; HP 1/6-frame 45; RPM1725; 60 cyles; volts 220; amps 1.8; ser. AN-style 11771460.
1 Switch, Wadworth Electric, #25; volts 125/250; amps 30; pole 3.
1 Electric Heater-Westinghouse, #1103868; 230 volts; 2KW.

Well A-5 Courthouse Bay

1 Pump, Peerless, no serial number.
1 Gear, turbo, #J-7477, Gear ratio CA1-1.
1 Valve check, MHV&F Co., 6" ; 175 lbs. WP.
1 Motor, U.S. Electric Motors Inc., ser. #307886; HP 15; volts 208/416; amps 12.4/21.2 phase 3; code f; type CFU-1500 RPM at 50 cyles; 1800 RPM at 60 cycles.
1 Shutlbrak Switch; Frank & Adams; type A; amps 100; volts 230AC; max HP15; volts 125-250 DC; cat. #SA10333.
1 Starter Switch, Westinghouse De-ion Linestarter; class 11200S2; style 999206A; mech Part 974144A; volts 110-208-220; cycles 25-66-66; size DN.
1 single throw switch; square D; cat. #59311; series 2; amp 30; volts 125-250DC; 230 AC volts; 3HP; 3 phase.
1 Reverse Phase Voltage Relay-Westinghouse; 60 cycles; 1150 volts; ohms 485; 3 phase; ser. #1142235; style 1056283-A.
1 Series Resistance, Westinghouse; ser. #1142235; ohms 48543.
1 motor, gasoline, auxdrive; Wisconsin Motor corp; type AP41; ser. #195397; size 3 1/2 x 4. PU8141 B ALLIS CHALMERS

1 Chlor-aFeeder-Proportioneer's Inc.
1 Pump, #TM5286St, series 402.
1 Motor, Diehl Mfg. Co.; ser. #S6796; volts 110; 60 cycles; HP-1/6; RPM 1750; phase 1; amp 1.4; type SP.
1 Electric Heater, General Electric; #1103868; 230 volts; 2 KW.

TANK HOUSE.

Well A-4 Courthouse Bay

3 valve - Gate, 4" 150 WSP.
1 Pressure Switch, Square D Co., type A; class 9013; #1M1056M19G8.

Well Pump House No. X BA 112 Onslow Beach

1 Pump, Turbine, Layne & Bowelер Co., ser. #12022.
1 Valve, check, 4"; 150WSP-No. 22.
1 Motor, U. S. Electric Motors Inc., Ser. #284019; HP-5; volts 220/440; amps 14/7; code H; type H.W.I; phase 3; frame 254-4-1800; RPM at 60 cycles.
1 Switch, Westinghouse, cat. #CF322; style #1224546B; hp 7½; amps 60; volts 230.
1 Switch, Square D Electric Co., cat. #59311; amps 30; volts 125; 250DC; series #2; volts 230AC; HP3; phase 3.
1 Automatic Controll Switch; square D Electric Co., class 8536; type RG10C; volts 208-220; cycles 60; ser. #2007-S53-836259.
1 Reverse Phase Voltage Relay, Westinghouse, ser. #643115; style 10562863-A; 60 cycles; volts 230; phase 3; ohms 1000.
1 Series Resistance, Westinghouse, Ser. #64311-S-ohms 1000x3
1 Electric Heater, Westinghouse, #1103868; volts 230; 2KW.

Pump House No. 22 BA 109 Onslow Beach ~~BA11~~

1 Pump, turbine, Layne & Bowelер Co., ser. #13373.
1 Gear, Johnson, ser. #8158; model 3930; ratio 1 1/3 to 1; 29BHP at 1750 RPM of pump.
1 Valve, check, MHV& F co., 6" 175 lb. WP.
1 Motor, U.S. Electric Motors Inc, ser. #303394; HP10; volts 220/440; amps 27/13.5 type CFU; phase 3; code F; frame 882; 1800 RPM at 60 cycles.
1 Shutlbrak Switch, Frank & Adams Elec Co.; type A-amps 100; volts 230AC; max HP 15; volts 125-250DC; cat. No. SA10333N.
1 Starter Switch, Allen & Bradley Elec. Co.; size 2; form 2; type 1; series 209ACN3; volts 220/208; phase 3; 60 cycles.
1 Motor, gasoline, auxdrive, Allis-Chalmers, #PU17797B.
1 Chlor-o-Feeder, Proportioneer's Inc., #TM10337-ST; series 4D2.
1 Main Service Switch, Colt's Pat. Fire Arms Mfg. Co., amps 30; volts 125AC; poles 2.
1 Motor Starting Switch, General Electric #CR1061C.
1 Electric Heater, Westinghouse, #1103868; volts 230; 2KW.

Pump House No. 23 BA110 Onslow Beach

1 Pump, turbine, Layne-Bowelер Co., Ser. #13374.
1 Valve, check, Muller Co., 6";175 lb. WP.
1 motor, U. S. Electric Motors Inc., ser. #358443; HP10; volts 220/440; amps 27/13.5; code F; phase 3; type CFU; frame 882; 1800 RPM at 60 cycles.
1 Switch, Square D Electric Co., cat. #56353; series #I; amps 100; volts 230AC; HP15.
1 Starter Switch, Allen & Bradley; series 209ACN3; size 2; form 2; type 1; volts 220/208; 3 phase; 60 cycles.
1 Chlor-o-Feeder, Proportioneer's Inc., #TM-9029-S2-series 42.
1 Motor, General Electric; model #5KH43AB198B; HP 1/6; phase1; type KH; GEU 435; RPM 1725; volts 115; amps 4; cycles 60.
1 Motor Starting Switch, General Electric CR1061C.
1 Main Service Switch, Colt's Pat. Fire Arms, Mfg. Co., #2812; amps 30; volts 125Ac; poles 2.
1 Electric Heater, Westinghouse, style 1103868; 230 volts; 2 KW.

1-CHLORINATOR W+T. SER NO. N-1996

Pump House #1 ~~C-4~~ A 23 Camp Knox

1 Pump, turbine, Layne & Bowelor Co., ser. #12336.
1 Valve, check, 6"; 150 WSP, #22.
1 Motor, U. S. Electric Motors Inc., ser. #305350; HP 7 1/2; volts 220/440; amps 20/10; type CFU; phase 3; code G; frame 877; 1800 RPM at 60 cycles.
1 Proportioneer, Proportioneers Inc., #DB5D-1.
1 Motor, Westinghouse, HP 1/4; no serial number.
1 Shutlbrack Switch, Frank & Adams Electric Co., type A; amps 100; volts 230 AC; Max HP-15; volts 125-250 DC; cat. #SA10333.
1 Controll Switch, Cutler Hammer, #9586H2518A; 220 volts; 60 cycles.
1 Reverse Phase Voltage Relay, Westinghouse; 60 cycles; 115 volts; 3 phase; 435 ohms; type CP; style 1056283A; ser. #1142246.
1 Series Resistance, Westinghouse, ohms 485 x 3, ser. #1142246.
1 Electric Heater, Westinghouse, style 1193868; 230 volts; 2KW.

Pump House #2 ~~A-25~~ Camp Knox

1 Pump, turbine, Layne & Bowelor Co., #13176.
1 Valve, check, Jenkins, 4"; 125 WSP.
1 Valve, Gate-Fairbanks, 4".
1 Motor, U. S. Electric Motors Inc., ser. #303393; HP-10; volts 208/416; amps 28.6/14.3; type CFU; code F; phase 1800 RP mat. 60 cycles; frame 882.
1 Switch, Square-D-Electric Co.
1 Starter Switch, Allen & Bradley.
1 Reverse Phase Voltage Relay, Westinghouse, #6430-5.

Pump House C19 Camp Knox

1 Pump, turbine, Layne & Bowelor Co., #13175.
1 Valve, check, Jenkins, 4"; 125 WSP; 200 OWG.
1 Valve, Gate-Fairbanks, 4"; 125 WSP.
1 Motor, U. S. Electric Motors Inc., #303393, frame 882; HP-10; type CFU; volts 208-/416; amps 28.6/14.3; phase 3; code F; 1800 RPM.
1 Switch, Square-D-Electric, #46353; 100 amps; 230 AC; volts HP15.
1 Reverse Phase Voltage Relay, Westinghouse, 60 cycle; type CF; ser. #6430-S-style 1056286-A; volts 230; 3 phase; 1000 ohms.
1 Series Resistance, Westinghouse, ohms 1000 x 3; ser. #6430S.
1 Switch, Magnetic, Allen & Bradley, size 2; form 2; type 1; series 209ACH3; volts 220-208; 3 phase; 60 cycles.
1 Automatic Switch, Westinghouse, type SD; style 1089732; 600 AC; volts 550Dc.
1 Switch, Square-D-Electric Co., series 3; cat. #99211-2; volts 125-250; amps 30; issue #B634.

Swimming Pool, Area #2, Bldg. #236

Unit #1 - Circulating Pump

(a) Circulating Pump, serial #33782; type L-2; size 6; stage 1; RPM 1800; GPM1200; head 70'.
(b) Motor, Sterling Electric Co., ser. #144723; type KF; frame 365; phase 3; HP 25; volts 208/416; amps 63.5/31.8; cycles 60; RPM 1800.
(c) Switch Safety, Trumbull Electric Co., type RBA; cat. #66324; pole 3; volts 230.
(d) Switch Starter, Westinghouse Electric Co., class 11200SS; style 941902; volts 220; cycles 60.
(e) Valves,
  (1) 2 crone hand oper. 10" pressure 100
  (2) 1 crone hand oper. 12" pressure 100
  (3) 1 Chapman Check 10" pressure 150
(f) Strainer, Mueller Steam Spge. Co., size 12", #917.

Unit #2 - Meter

(a) Ventrii Meter Menometer, Builders Iron Foundry Co., #53271.

Unit #3 - Filters

(a) 3 Filters, Permutit Co., size 8'x20'; GPM 400 each; JOBBKS 34578.
(b) Valves.
  (1) 3 crone hand oper. 8" pressure 200 lbs.
  (2) 3 crone hand oper. 6" pressure 200 lbs.
  (3) 1 Chapman check 10" pressure 150 lbs.

Unit #4 - Feed Pumps

1- (a) Chemical Feed Pumps, Milton Roy Pump Co.,Job #3654-9; model 1-1A5-74P; pressure 50 lbs.; stroke 3".
(b) Motor, GeGearmaster, General Electric Co., motor #5KHH5AB854-A; gear # 76W712D41; HP 1/6; volts 115; amps 2.6; cycle 60; motor RPM 1725; gear RPM 74; ratio 23.3 to 1.

2- (a) Pump, Milton Roy Pump Co., job #3654-1, model 1-1A5-74-P; pressure 50 lbs./ stroke 3".
(b) Motor, GeGearmaster, General Electric Co., motor #5KH45AB854-A; gear # 76W712D41; HP 1/6; volts 115; amps 2.6; cycle 60; motor RPM 1725; gear RPM 74; ratio 23.3 to 1.

3- (a) Pump, Milton Roy Pump Co., Job. #3654-5; model 1-1A5-74; pressure 50 lbs. stroke 3".
(b) Motor, GeGearmaster, General Electric Co., motor #5KH45AB854-A; gear # 76W712D41; HP 1/6; volts 115; amps 2.6; cycle 60; motor RPM 1725; gear RPM 74; ratio 23.3 to 1.

Unit #5 - Water meter

(a) Meter, water, Neptune Meter Co., tridemt #6629789, size 3/4".

Unit #6 - Chlorinator

(a) Chlorinator, Wallace & Tiernan Co., manual visible vacuum type MSV ; serial #13474.

Unit #7 - Ammonictor

(a) Ammonictor, Wallace & Tiernan Co., direct feed ammonictor, type M-D.P.A.-M; serial #N5145.

Unit #8 - Exhaust Fan, American Blower Co.

(a) Blower, Model #150B-1, serial No. 11617.
(b) Motor, General Electric Co., model 5 KC63AB334A; type KC, frame 63A; RPM 1725; HP 1/2; volts 115; amps 7; cycle 60; phase 1.

Unit #9 - Pool Cleaner

(a) Pool Cleaner, Ralp B. Corter Co., serial #701-1 1/2A, shop #11988.
(b) Suction Cleaning Tool, Standard Pool Cleaner Co., TVEC #2132.
(c) Motor, General Electric Co., model M-5228; type K; frame 204; code L; HP 1 1/2; volts 208/416; amps 9.34/4.67; phase 3; cycles 60.
(d) Switch, Moniter Electric Co., serial #A67254; type 6333WKF1, size 1.

Unit #10 - Concensote Pumps

1- (a) Pump, Aurara Pump Co., serial #114A, stock #B78255-BF.
(b) Motor, Westinghouse Electric Co., serial #12843; style 1077351X; type CS; frame 225; HP 3; volts 208; amps 8; phase 3; cycle 60.
(c) Switch, Trumbull Electric Co., cat. #66321; type RBA; volts 230; amps 30.
(d) Switch starter, Westinghouse, class 11200-12; mach. size 967224.D.

2- (a) Pump, Aurara Pump Co., serial #114A, stock #B78254BF.
(b) Motor, Westinghouse Electric Co.,serial #12844, style 1077351X; type CS; frame 22; HP 3; volts 208; amps 8; phase 3; cycle 60.
(c) Switch safety, Trumbull Electric Co., cat. #66321; type RBA; volts 230; amps 30.
(d) Switch starter, Westinghouse, class 11200-12; mach. size 967224.D.

Unit #11 - Valves, misc.

(a) 1 Valve, hand oper. 12" Mueller 200 lbs. pressure.
(b) 2 Valve, hand oper. 10" Mueller 300 lbs. pressure.
(c) 4 Valve, hand oper. 6" Mueller 300 lbs. pressure.
(d) 2 Valve, hand oper. 6" Crome 200 lbs. pressure.
(e) 4 Valve, hand oper. 10" Crome 200 lbs. pressure.
(f) 12 Valve, hand oper. 3" Crome 200 lbs. pressure.

Well #Z M141 **Montford Point**

1 Pump, turbine, Layne & Bowler Co., ser. #11946. ENG PA. 182841
1 Gear Drive, Johnson, ser. #7249, model 3930, ratio 1 1/3 to 1; 29BHP at 1750 RPM. P- 182840
1 Valve, check, Mueller, 6", 175 lb. WP.
1 Motor, U. S. Electric Motors Inc., HP 7 1/2; ser. #261959; frame 877; type CFU; volts 220/440; amps 20/10; phase 3; code G; 1500 RPM at 50 cycles; 1800 RPM at 60 cycles.
OK 1 Shutlbrak Switch, Frank & Adams Elec. Co., type A; 100 amps; volts 230 AC; Max HP 15 AC; volts 125; 250 DC; cat. #SA10333.
1 Magnetic Switch, General Electric, CR7006-D30B; cat. #4381269G103; volts 220; cycles 60.
1 Reverse Phase Voltage Relay, Westinghouse, 60 cycles; 3 phase; 115 volts; 485 ohms; ser. #54220; style 1056283-A.
1 Series Resistance, Westinghouse, ser. #54220; ohms 485x3.
→1 Motor, gasoline, AuxDrive, Allis-Chalmers, ~~PU13825~~. 13813B (aux motor) switched to Paradis Point, Well R.

Well #Z-1 M142 **Montford Point**

1 Pump, turbine, pump, Layne & Bowler Co., #12449. P.A# 182835
1 Valve, check, size 6"; 150 WSP; #22.
1 Motor, U. S. Electric Motors Inc., ser. #199933; volts 220/440; amp 20/10; H.P. 7 1/2; type CFU; phase 3; code G; frame 877; 40°C RPM 1800 at 60 cycles.
1 Shutlbrak Switch, Frank & Adams Electric Co., type A; amps 100; volts 230 AC; Max HP 15; volts 125-250DC; cat. #SA10333.
OK 1 Starter Switch, Cutler-Hammer, #9587H-3147A; volts 220; cycles 50/60.
1 Reverse Phase Voltage Relay, Westinghouse, 60 cycles; 115 volts; 3 phase; 485 ohms; style 1056283-A-ser. #1142216.
1 Series Resistance, Westinghouse, ohms 1000x3, ser. #6435-S.
1 Automatic Pump Controll, Automatic Controll Co., type 2, #5217B; volts 220; cap. 8.

Well #Z-2 M243 **Montford Point**

1 Pump, Layne & Bowler Co., ser. #12839. PA. 182844
1 Valve, check, size 6", 150 WSP; #22.
1 Motor, U. S. Electric Motors Inc., ser. #324386; HP-10; volts 208/416; amps 28.6/14.3; type CFU; phase 3; code F; frame 882; RPM 1800 at 40 cycles.
OK 1 Motor, Century Electric Co., 1740 RPM at 60 cycles; 1450 RPM at 50 cycles; #Y11; HP 1 1/2; model SC-204-BA5-19; phase 3; volts 220/440; amps 4.4/2.2; 4.6/2.3.
1 Pump, Westco turbine, Fairbanks Morse & Co., size 1; #E145BFD26442.
X1 Chlorinator, Wallace & Tiernan, ser. #N20651, type H419021 MOVED TO RR-47
1 Switch, Bulldog Electric Products Co., cat. #114323, type master; amps 100; volts 230AC; max HP15.
1 Starter Switch, Allen & Bradley Electric, size 2; form 2; type 1; series 209ACV2; phase 3; cycles 60; volts 220/208.
1 Reverse Phase Voltage Relay, Westinghouse, ser. #1142240; 60 cycles; 115 volts; 3 phase; style 1056283-A; 485 ohms.
1 Series Resistance, Westinghouse, ser.#6430, ohms 1000x3.
1 Magnetic Switch, General Electric, CR7006D50E, cat. #5368679E103; controll volts 208-220; 60 cycles.
1 Single throw switch, Trumbull Electric Mfg. Co., type D, cat. #24321, 30 amps; 230Ac; volts; 3 pole.

1 Scale, Fairbanks, cap 1000 lbs.

Well House Z3 M244 Montford Point

PA# 182845

1 Pump, Layne & Bowler Co., ser. #11302.
1 check valve, MHV&F Co., size 6", 175 lb press.
1 motor, U. S. Electric Motors Inc., ser. #263458; HP20; volts 220/440; amps 50/25; type CFU; phase 3; code E; frame 907; RPM-1500 at 50 cycles; 1800 at 60 cycles.
1 motor, Crockers Wheeler Elec. Mfg. Co., ser. #1040013-HP-3; size A225; type Sc; phase 3; cycles 60; RPM 1720; volts 208/416; amps 8.3/4.15.
1 pump, Westco turbine, Fairbanks-Morse & Co., size 1, E-147BFD26445.
OK
1 magnetic switch, General Electric., CR7006-D51-GE; cat. #6938804-G103-Controll volts 208/220; 60 cycles.
1 switch, Trumbull Elec. Mfg., cat. #40324; amps 200; volts 230 Ac; 3 pole; Max HP30.
1 Starter Switch, Westinghouse De-ion Linestarter; class 11200S4; style 941922A; mech. parts style 94751; volts 110-208-220; cycles 25-60-60.
1 Reverse Phase Voltage Relay, Westinghouse; type CP-60 cycles; 115 volts; 3 phase; style 1056283A-ser. #1142251.
1 Series Resistance, Westinghouse; ohms 1000x3; ser. #64394R.
PA# 182846
1 Chlorinator, Wallace - Tiernan, #N20411.
1 single throw switch, Trumbull Elec. Mfg. Co., type D; cat. #24321; 30 amps; 230 AC;volts; 3 pole.
1 Scale, Fairbanks Platform Co., capt 1000 lbs.

Well House Z4 M627 Montford Point

PA# 182836

1 Pump, turbine pump, Layne & Bowler Co., ser. #13138.
1 gear drive, Johnson, #7992; model 390; ratio 1 1/3 to 1; 29 BH at 1750 RPM of pump.
1 valve check, MHV& F Co., 6", 175 lb. press.
1 motor, U. S. Electric Motors Inc., ser. #334397; HP 7 1/2; volts 208/416; amps 21.2/10.6; type CFU-phase 3; code G; frame 877; 1800 RPM at 60 cycles.
→ 1 Motor, gasoline, Auxdrive-Allis-Chalmers Co., ser. #PU14605-B. PA# 182837
1 Enclosed Electric Switch, Trumbull, cat. #40323; 100 amps; 3 pole; 230 AC volts; Max HP 15.
OK
1 Starter Switch, Westinghouse, De-ion Linestarter; class 11200S2-style 999206A; mech. parts style 974114A; volts 110-208-220; cycles 25-60-60-; size 2 DN.
1 Chlorinator, Wallace & Tiernan Co., #N20652; type 14419021. PA# NONE
1 Pump, Westco Turbine, Fairbanks -Morse-Co., #E145BLD29441, size 1.
1 Motor, Century Electric Co., #Y11-HP-1 1/2; model SC204BA519; phase 3; volts 220/440; amps 4.6/2.3; 1740 RPm at 60 cycles; 1450 RPM at 50 cycles.
2 single throw switch, Trumbull Elec. Mfg. Co., type D, cat. #24321, 30 amps; 230 AC volts; 3 pole.
1 Magnetic Switch, General Electric, CR7006D50E, cat. #5368679-E103; controll 208-220.
1 Scale, Fairbanks Platform Scale Co., cap. 1000 lbs.

Well House Z5 M626 Montford Point

1 Pump, turbine, Layne & Bowler Co., ser. #12840. PA # 182838
1 valve check, MHV&F Co., 6", 175 lb. press.
1 Motor, U. S. Electric Motors Inc., ser. #218459; HP 7 1/2; volts 220/440; amps 20/10; type CFU; phase 3; frame 877; 1500 RPM at 50 cycles; 1800 RPM at 60 cycles.
1 Chlorinator-Wallace & Tiernan Co., ser. #N20487. PA # 182689
1 Pump, Westco Turbine, Fairbanks-Morse-Co., size 1, E145-BFD26444.
1 Motor, Crocker & Wheeler Electric Co., #1032001, HP 1.5; phase 3; 60 cycles; size ALH204; type SC; RPM 1740; volts 220/440; amp 4.25/2.125.
1 Enclosed Electric Switch, Trumbull, cat. #24323; amps 100; 3 pole; volts 230AC.
1 Starter Switch, Allen & Bradley, size 2; form 2; type 1; series 209ACH3; 3 phase; 60 cycles; volts 220/208.
2 Single throw switch, Trumbull Elec. Mfg. Co., type D, cat. #24321, 30 amps; 230 AC volts; 30 pole.
1 Magnetic switch, General Electric Co., CR-7006D50E; cat. 5368679E103; controll volts 208/220; 60 cycles.
1 Scale, Fairbanks Platform Scale Co., cap. 1000 lbs.

OK

Swimming Pool - Montford Point - Bldg. #139

Unit #1

(a) Pool Refill Pump, Weinman Pump Co., ser. #33781; type O; size 4; stage 1; 200 GPM; 25 ft. head; RPM 1725.
(b) Motor, Master Electric Co., ser. #OL6190; type PA; style 61958; frame 225; HP 13; volts 208; cycles 60; amps 8.4; phase 3; RPM 1750.
(c) Switch Safety, Square D Electric Co., cat. #56351; series #2; volts 230; amps 30.
(d) Switch Reset, General Electric Co., cat. #103; volts 208-220; cycles 60.
(e) 3 valves hand oper. 6" Mueller 200 lbs. pressure.

Unit #2

(a) Circulating Pump, Wienman Pump Co., ser. #33784; type L-2; size 6; stage 1; RPM 1800; GPM 1200; head 70'.
(b) Motor, Sterling E. Co., ser. #1-4725; type KF; frame 365; HP 25; RPM 1800; volts 210; amps 63.5; phase 3.
(c) Switch, safety, Trumbull Electric Co., cat. #66324; type RPA; volts 230; amps 200.
(d) Switch Starter, Westinghouse, class 11200-93; style 941902; parts style 940747.
(e) Strainer, Mueller Steam Spect. Co., #917; size 12".
(f) Valves.
    (1) 2 valves hand oper. 12" Mueller 200 lbs. pressure.
    (2) 1 valve hand oper. 10" Mueller 200 lbs. pressure.
    (3) 1 valve check 10" Chapman 150 lbs. pressure.

Unit #3 Venturi Meter Menometer, Bldrs. Iron Foundry Co., #53269; size 10x5.

Unit #4

(a) 3 filter pressure, Permutit Co., size 8x20; GPM 400 each; job #BKC34578.
(b) Valves.
    (1) 3 valves hand oper. 8" crone 200 lbs. pressure.
    (2) 3 valves hand oper. 6" crone 200 lbs. pressure.

Unit #5 - 3 Chemical Feed Pumps

1- (a) Pump, Milton Roy Pump Co., job #3654-6; model #1-1A5-74-P; pressure 50 lbs. stroke 3".
(b) Motor, General Electric Gear Motor, motor #5KH45AB854A; Gear #7GW712DT1; Gear spec. 74; motors spec.1725 RPM; HP 1/6; volts 115; amps 2.6; cycle 60; phase 1.

2- (a) Pump, Milton Roy Pump Co., Job #3654-3; model #1-1A5-74-P; pressure 50 lbs.; stroke 3".
(b) Motor, General Electric Gear Motor, motor #5KH45A854A; Gear #7GW712DT1; Gear spec. 74; motors spec. 1725 RPM; HP 1/6; volts 115; amps 2.6; cycle 60; phase 1.

3- (a) Pump, Milton Roy Pump Co., job #3654-4, model #1-1A5-74-P; pressure 50 lbs.; stroke 3".
(b) Motor, General Electric Gear Motor, motor #5KH45A85AA; Gear #7GW712DT1; Gear spec. 74; motors spec. 1725 RPM; HP 1/6; volts 115; amps 2.6; cycle 60; phase 1.

Unit #6-Chlorinator -Wallace & Tiernan Co., monrel visible vacuum type MSR. serial #M13486.

Unit #7 - Ammonictor, Wallace & Tiernan, [illegible] feed ammonieter, ser. #N-4972.

Unit #8 - Water meter, Neptune Meter Co., Trident #6629788, size 3/4

Unit #9
(a) Exhaust Fan, American Blower Corp., ser.#11617, model #150-B-1.
(b) Motor, General Electric Co., model #5KC63AB334-A; type KC; frame 63; HP 1/2; volts 11/220; amps 7/3.5; cycles 60; phase 1; RPM 1725.

Unit #10
(a) Pool Cleaner, Carter Pool Cleaner Co., ser. #701-1 1/2A, shop #11987.
(b) Motor, General Electric Co., model #2228; ser. #JY16810; type K; frame 204; code L; HP 1 1/2; volts 208/416; amps 9.34/4.67; cycles 60; phase 3; RPM 1730.
(c) Switch, Monitor Electric Co., type G333VKF1, ser. #AG-7255; size 1; style V.
(d) Suction Cleaning Tool, Standard Pool Cleaning Co, #2130.

Unit #11 - Two Condensate Pumps
1- (a) Pump, Aurara Pump Co., Ser. #115B78253.
(b) Motor, Westinghouse Elec. Co., ser. #19848; style 1077858-X, type CS; frame 254; HP-5; RPM 1750; volts 208; amps 3.2; cycles 60; phase 3.
(c) Switch Safety, Trumbull Elec. Co., cat. #66321; type RBA; volts 230; amps 30.
(d) Switch Starter, Westinghouse Elec. Co., class 11200-S12; mech. style 967224D.
2- (a) Pump, Aurara Pump Co., ser. #115B78253BF.
(b) Motor, Westinghouse Elec. Co., ser. #26043; style 1077858-X; type CS; frame 254; HP-5; RPM 1750; volts 208; amps 3.2; cycles 60; phase 3.
(c) Switch Safety, Trumbull Elec. Co., cat. #66321; type RBA; volts 230; amps. 30.
(d) Switch Starter, Westinghouse Elec. Co., class 11200-S12; mach. style 967224D.

Unit #12 - Valves, Misc.
(a) 1 valve hand oper. 12" Mueller 100 lbs. pressure.
(b) 2 valve hand oper. 10" Mueller 100 lbs. pressure.
(c) 4 valve hand oper. 10" Crone 200 lbs. pressure.
(d) 4 valve hand oper. 6" Crone 200 lbs. pressure.
(e) 12 valve hand oper. 3" Crone 150 lbs. pressure.

B-20 BOOSTER Pump

CHECKED BOX APPLIES			PAGE 1 OF
[X]	ORDER FOR SUPPLIES OR SERVICES	[ ] REQUEST FOR QUOTATIONS NO. RETURN COPY(IES) OF THIS QUOTE BY (THIS IS NOT AN ORDER. See DD Form 1155r)	2

5. CERTIFIED FOR NATIONAL DEFENSE UNDER DMS REG 1 DO

1. CONTRACT/PURCH ORDER NO.	2. DELIVERY ORDER NO.	3. DATE OF ORDER	4. REQUISITION/PURCH REQUEST NO.
M67001-79-M-5881		79 Jul 24	SEE SCHEDULE

6. ISSUED BY: CODE M67001
P. BRYDON/919-451-5627/sh
Purchasing & Contracting Office
Bldg 1211, Marine Corps Base
Camp Lejeune, N. Carolina 28542

7. ADMINISTERED BY: (If other than 6) CODE
Received 8/16/79 WSP

8. DELIVERY FOB
[ ] DESTINATION
[X] OTHER
(See Schedule if other)

9. CONTRACTOR/QUOTER CODE FACILITY CODE

NAME AND ADDRESS
THE GEORGE SEELKE CO.
3866 Clearview Ave.
Atlanta, GA 30340

AT Warehouse 10 11

10. DELIVER TO FOB POINT BY:
79 Aug 10

11. CHECK IF SMALL BUSINESS [ ] MBE [ ]

12. DISCOUNT TERMS
NET 30 days

13. MAIL INVOICES TO: (In sextuplicate)
SAME AS BLOCK #14

14. SHIP TO: CODE
Freight Traffic Branch
Bldg 1011, Camp Lejeune, N. Carolina
79-M-5881 28542

15. PAYMENT WILL BE MADE BY: CODE M67001
Base Disbursing Officer
MCB, Camp Lejeune, North Carolina 28542

MARK ALL PACKAGES AND PAPERS WITH CONTRACT OR ORDER NUMBER

16. TYPE OF ORDER

DELIVERY [ ] This delivery order is subject to instructions contained on this side of form only and is issued on [illegible] in accordance with and subject to terms and conditions of above numbered contract.

PURCHASE [X] Reference your TELEQUOTE 79 Jul 13, furnish the following on terms specified herein, including; for U. S. purchases, General Provisions of Purchase Order on DD Form 1155r (Except CLAUSE NO. 13 APPLIES ONLY IF THIS BOX [ ] IS CHECKED, and NO. 15 IF THIS BOX [ ] IS CHECKED); special provisions ; and delivery as indicated. This purchase is negotiated under authority of 10 USC 2304(a)(3) or as specified in the schedule if within the U. S., its possessions or Puerto Rico; if otherwise, under 2304(a)(6).

[ ] If checked, Additional General Provisions apply; Supplier shall sign "Acceptance" on DD Form 1155r and return copies.

17. ACCOUNTING AND APPROPRIATION DATA – ACCOUNTING CLASSIFICATION (REV. 7-65) PLUS TRANS

ITEM NO.	APPROPRIATION SYMBOL AND SUBHEAD	OBJECT CLASS	BUREAU CONT. NO.	SUB-ALLOT.	AUTH'N ACCT'G ACTY	TRANS. TYPE	PROPERTY ACCT'G ACTY	COUNTRY	COST CODE	AMOUNT
1.	1791106.2720	000	67001	0	067001	2D	000000		92330362383T	$402.00
2.	1791106.2720	000	67001	0	067001	2D	000000		92330372383T	$402.00

18. ITEM NO.	19. PRIORITY 14 SCHEDULE OF SUPPLIES/SERVICES	20. QUANTITY ORDERED/ ACCEPTED*	21. UNIT	22. UNIT PRICE	23. AMOUNT
	THIS IS A CONFIRMING ORDER...Confirms telephonic order of Mr. Burnette by our P. Brydon. DO NOT DUPLICATE. same number and date given your				
	MML999 (ALL) 1. M93058-9173-W008, 4320-00-C99-2139 (1 ea) 2. M93058-9173-W009, 4320-00-C99-2140 (1 ea)				
I.	Packing box assembly complete for JQ 3864 & JQ 3865 Pumps, 1 15/16" Shaft Size, 12" Pump size, Type 20cc	2	EA	$402.00	$804.00
NOTE:	ATTACHED DISPUTES CLAUSE CANCELS AND SUPERSEDES PARA. 5 OF THE GENERAL PROVISIONS ON THE REVERSE HEREOF.				

* If quantity accepted by the Government is same as quantity ordered, indicate by √ mark. If different, enter actual quantity accepted below quantity ordered and encircle.

24. UNITED STATES OF AMERICA
BY: Ione O. Holsonback IONE O. HOLSONBACK Purchasing XXXXXXXX CONTRACTING/ORDERING OFFICER

25. TOTAL $804.00
29. DIFFERENCES

26. QUANTITY IN COLUMN 20 HAS BEEN:
[ ] RECEIVED [ ] INSPECTED [ ] ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED

Date (Signature of authorized Government representative)

27. SHIP. NO. [ ] FINAL [ ] PARTIAL

28. D.O. VOUCHER NO.

30. INITIALS

31. PAYMENT [ ] COMPLETE [ ] PARTIAL [ ] FINAL

32. PAID BY
67001-
SYM #.5190
MCB CLNC

33. AMOUNT VERIFIED CORRECT FOR

34. CHECK NUMBER

35. BILL OF LADING NO.

36. I CERTIFY that this account is correct and proper for payment
T. R. DEDMOND, Fiscal Acctg. Supv.
(Signature and title of Certifying Officer)

37. RECEIVED AT	38. RECEIVED BY	39. DATE RECEIVED	40. TOTAL CONTAINERS	41. S/R ACCOUNT NUMBER	42. S/R VOUCHER NO.

DD FORM 1 AUG 66 1155 (NAVY) (Overprint 1/70)

Form Approved by Comptroller General, U. S., 27 May 66
Exception to SF 18 under $2,500 Approved by Budget Bureau Oct 66

THIS PARAGRAPH APPLIES ONLY TO QUOTATIONS SUBMITTED:

Supplies are of domestic origin unless otherwise indicated by quoter. The Government reserves the right to consider quotations or modifications thereof received after the date indicated should such action be in the interest of the Government. This is a request for information and quotations furnished are not offers. When quoting, complete blocks 11, 12, 22, 23, 25. If you are unable to quote, please advise. This request does not commit the Government to pay any cost incurred in preparation or the submission of this quotation or to procure or contract for supplies or services.

GENERAL PROVISIONS

1. INSPECTION AND ACCEPTANCE–Inspection and acceptance will be at destination, unless otherwise provided. Until delivery and acceptance, and after any rejections, risk of loss will be on the Contractor unless loss results from negligence of the United States Government. Notwithstanding the requirements for any Government inspection and test contained in specifications applicable to this contract, except where specialized inspections or tests are specified for performance solely by the Government, the Contractor shall perform or have performed the inspections and tests required to substantiate that the supplies and services provided under the contract conform to the drawings, specifications and contract requirements listed herein, including if applicable the technical requirements for the manufacturers' part numbers specified herein.

2. VARIATION IN QUANTITY–No variation in the quantity of any item called for by this contract will be accepted unless such variation has been caused by conditions of loading, shipping, or packing, or allowances in manufacturing processes, and then only to the extent, if any, specified elsewhere in this contract.

3. PAYMENTS–Invoices shall be submitted in quadruplicate *(one copy shall be marked "Original")* unless otherwise specified, and shall contain the following information: Contract or Order number, Item number, contract description of supplies or services, sizes, quantities, unit prices and extended totals. Bill of lading number and weight of shipment will be shown for shipments on Government Bills of Lading. Unless otherwise specified, payment will be made on partial deliveries accepted by the Government when the amount due on such deliveries so warrants.

4. DISCOUNTS–In connection with any discount offered, time will be computed from date of delivery of the supplies to carrier when acceptance is at the point of origin, or from date of delivery at destination or port of embarkation when delivery and acceptance are at either of these points, or from the date the correct invoice or voucher is received in the office specified by the Government, if the latter is later than date of delivery. Payment is deemed to be made for the purpose of earning the discount on the date of mailing of the Government check.

5. DISPUTES–(a) Except as otherwise provided in this contract, any dispute concerning a question of fact arising under this contract which is not disposed of by agreement shall be decided by the Contracting Officer, who shall mail or otherwise furnish a copy thereof to the Contractor. This decision shall be final and conclusive unless, within 30 days from the date of receipt of such copy, the Contractor mails or otherwise furnishes to the Contracting Officer a written appeal addressed to the Secretary. The decision of the Secretary or his duly authorized representative for the determination of such appeals shall be final and conclusive unless determined by a court of competent jurisdiction to have been fraudulent, or capricious, or arbitrary, or so grossly erroneous as necessarily to imply bad faith, or not supported by substantial evidence. The Contractor shall be afforded an opportunity to be heard and to offer evidence in support of his appeal. Pending final decision of a dispute hereunder, the Contractor shall proceed diligently with the performance of the contract and in accordance with the Contracting Officer's decision. (b) This "Disputes" clause does not preclude consideration of law questions in connection with decisions provided for in (a) above, provided, that nothing in this contract shall be construed as making final the decision of any administrative official, representative, or board on a quesiton of law.

6. FOREIGN SUPPLIES–This contract is subject to the Buy American Act *(41 U.S.C. 10a-d)* as implemented by Executive Order 10582 of December 17, 1954, and any restrictions in appropriation acts on the procurement of foreign supplies.

7. CONVICT LABOR–The Contractor agrees not to employ for work under this contract any person undergoing sentence of imprisonment at hard labor.

8. OFFICIALS NOT TO BENEFIT – No member of or Delegate to Congress or resident commissioner, shall be admitted to any share or part of this contract, or to any benefit that may arise therefrom, but this provision shall not be construed to extend to this contract if made with a corporation for its general benefit.

9. CONVENANT AGAINST CONTINGENT FEES The Contractor warrants that no person or selling agency has been employed or retained to solicit or secure this contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, excepting bona fide employees or bonafide established commercial or selling agencies maintained by the Contractor for the purpose of securing business. For breach or violation of this warranty the Government shall have the right to annul this contract without liability or in its discretion to deduct from the contract price or consideration or otherwise recover, the full amount of such commission, percentage, brokerage or contingent fee.

10. GRATUITIES (a) The Government may, by written notice to the Contractor, terminate the right of the Contractor to proceed under this contract if it is found after notice and hearing, by the Secretary or his duly authorized representative, that gratuities *(in the form of entertainment, gifts or otherwise)* were offered or given by the Contractor, or any agent or representative of the Contractor, to any officer or employee of the Government with a view toward securing a contract or securing favorable treatment with respect to the awarding or amending, or the making of any determinations with respect to the performing of such contract, provided, that the existence of the facts upon which the Secretary or his duly authorized representative make such findings shall be in issue and may be reviewed in any competent court. (b) In the event this contract is terminated as provided in paragraph (a) hereof the Government shall be entitled (i) to pursue the same remedies against the Contractor as it could pursue in the event of a breach of the contract by the Contractor and (ii) as a penalty in addition to any other damages to which it may be entitled by law to exemplary damages in an amount *(as determined by the Secretary or his duly authorized representative)* which shall be not less than three nor more than ten times the costs incurred by the Contractor in providing any such gratuities to any such officer or employee. (c) The rights and remedies of the Government provided in this clause shall not be exclusive and are in addition to any other rights and remedies provided by law or under this contract.

11. RENEGOTIATION This contract, and any subcontract hereunder, is subject to the Renegotiation Act of 1951, as amended *(50 U.S.C. App. 1211 et seq.)* and shall be deemed to contain all the provisions required by Section 104 thereof, and is subject to any subsequent act of Congress providing for the renegotiation of contracts.

12. CONDITION FOR ASSIGNMENT This Purchase Order may not be assigned pursuant to the Assignment of Claims Act of 1940, as amended *(31 U.S.C. 203, 41 U.S.C. 15)*, unless or until the supplier has been requested and has accepted this order by executing the Acceptance hereon.

13. COMMERCIAL WARRANTY The Contractor agrees that the supplies or services furnished under this contract shall be covered by the most favorable commercial warranties the Contractor gives to any customer for such supplies or services and that the rights and remedies provided herein are in addition to and do not limit any rights afforded to the Government by any other clause of this contract.

14. PRIORITIES, ALLOCATIONS AND ALLOTMENTS DEFENSE MATERIALS SYSTEM – When the amount of the order is $500 or more the Contractor shall follow the provisions of DMS Reg. 1 and all other applicable regulations and orders of the Business and Defense Services Administration in obtaining controlled materials and other products and materials needed to fill this order.

15. FAST PAYMENT PROCEDURE –

(a) General. This is a fast payment order. Invoices will be paid on the basis of the Contractor's delivery to a post office, common carrier, or, in shipment by other means, to the point of first receipt by the Government.

(b) Responsibility for Supplies. Title to the supplies shall vest in the Government upon delivery to a post office or common carrier for shipment to the specified destination. If shipment is by means other than post office or common carrier, title to the supplies shall vest in the Government upon delivery to the point of first receipt by the Government. Notwithstanding any other provision of the purchase order, the Contractor shall assume all responsibility and risk of loss for supplies (i) not received at destination, (ii) damaged in transit, or (iii) not conforming to purchase requirements. The Contractor shall either replace, repair, or correct such supplies promptly at his expense, *provided* instructions to do so are furnished by the Contracting Officer within ninety (90) days from the date title to the supplies vests in the Government.

(c) Preparation of Invoice.

(1) Upon delivery of supplies to a post office, common carrier, or in shipments by other means, the point of first receipt by the Government, the Contractor shall prepare an invoice in accordance with Clause 3 of the General Provisions of Purchase Order, except that invoices under a blanket purchase agreement shall be prepared in accordance with the provisions of the agreement. In shipments by either post office or common carrier, the Contractor shall either (A) cite on this invoice the date of shipment, name and address of carrier, bill of lading number or other shipment document number, or (B) attach copies of such documents to his invoice as evidence of shipment. In addition the invoice shall be prominently marked "Fast Pay." In case of delivery by other than post office or common carrier, a receipted copy of the Contractor's delivery document shall be attached to the invoice as evidence of delivery.

(2) If the purchase price excludes the cost of transportation, the Contractor shall enter the prepaid shipping cost on the invoice as a separate item. The cost of parcel post insurance will not be paid by the Government. If transportation charges are separately stated on the invoice, the Contractor agrees to retain related paid freight bills or other transportation billings paid separately for a period of three years and to furnish such bills to the Government when requested for audit purposes.

(3) In the event this order requires the preparation of a Material Inspection and Receiving Report (DD Form 250), the contractor has the option of either preparing the DD Form 250 or including the following information on the invoice, in addition to that required in (c)(1) above: (A) a statement in prominent letters "NO DD 250 PREPARED"; (B) shipment number; (C) mode of shipment; and (D) at line item level, (i) National Stock Number and/or Manufacturer's part number, (ii) unit of measure, (iii) Ship-To-Point, (iv) Mark-For-Point if in contract, and (v) MILSTRIP document number if in contract.

(d) Certification of Invoice. The Contractor agrees that the submission of an invoice to the Government for payment is a certification that the supplies for which the Government is being billed have been shipped or delivered in accordance with shipping instructions issued by the ordering officer, in the quantities shown on the invoice, and that such supplies are in the quantity and of the quality designated by the cited purchase order.

OUTER SHIPPING CONTAINERS SHALL BE MARKED "FAST PAY"

16. *(This clause applies if this contract is for services and is not exempted by applicable regulations of the Department of Labor.)*

SERVICE CONTRACT ACT OF 1965 – Except to the extent that an exemption, variation, or tolerance would apply pursuant to 29 CFR 4.6 if this were a contract in excess of $2,500, the Contractor and any subcontractor hereunder shall pay all of his employees engaged in performing work on the contract not less than the minimum wage specified under section 6(a)(1) of the Fair Labor Standards Act of 1938, as amended ($1.60 per hour). However, in cases where section 6(e)(2) of the Fair Labor Standards Act of 1938 is applicable, the rates specified therein will apply. All regulations and interpretations of the Service Contract Act of 1965 expressed in 29 CFR Part 4 are hereby incorporated by reference in this contract.

ADDITIONAL GENERAL PROVISIONS

17. CHANGES– The Contracting Officer may at any time, by a written order, and without notice to the sureties, make changes, within the general scope of this contract, in (i) drawings, designs, or specifications, where the supplies to be furnished are to be specially manufactured for the Government in accordance therewith; (ii) method of shipment or packing; and (iii) place of delivery. If any such change causes an increase or decrease in the cost of, or the time required for performance of this contract, whether changed or not changed by any such order, an equitable adjustment shall be made by written modification of this contract. Any claim by the Contractor for adjustment under this clause must be asserted within 30 days from the date of receipt by the Contractor of the notification of change provided that the Contracting Officer, if he decides that the facts justify such action, may receive and act upon any such claim if asserted prior to final payment, under this contract. Failure to agree to any adjustment shall be a dispute concerning a question of fact within the meaning of the clause of this contract entitled "Disputes." However, nothing in this clause shall excuse the Contractor from proceeding with the contract as changed.

18. TERMINATION FOR DEFAULT – The Contracting Officer, by written notice, may terminate this contract, in whole or in part, for failure of the Contractor to perform any of the provisions hereof. In such event, the Contractor shall be liable for damages, including the excess cost of reprocuring similar supplies or services; provided that, if (i) it is determined for any reason that the Contractor was not in default or (ii) the Contractor's failure to perform is without his and his subcontractor's control, fault or negligence, the termination shall be deemed to be a termination for convenience under paragraph 19. As used in this provision the term "subcontractor', and "subcontractors" means subcontractors at any tier.

19. TERMINATION FOR CONVENIENCE – The Contracting Officer, by written notice, may terminate this contract, in whole or in part, when it is in the best interest of the Government. If this contract is for supplies and is so terminated, the Contractor shall be compensated in accordance with Section VIII of the Armed Services Procurement Regulation, in effect on this contract's date. To the extent that this contract is for services and is so terminated, the Government shall be liable only for payment in accordance with the payment provisions of this contract for services rendered prior to the effective date of termination.

20. ASSIGNMENT OF CLAIMS – Claims for monies due or to become due under this contract shall be assigned only pursuant to the Assignment of Claims Act of 1940, as amended *(31 U.S.C. 203, 41 U.S.C. 15)*. However, payments to an assignee of monies under this contract shall not, to the extent provided in said Act, as amended, be subject to reduction or set-off. *(See Clause 12.)*.

ACCEPTANCE

The Contractor hereby accepts the offer represented by the numbered purchase order as it may previously have been or is now modified, subject to all of the terms and conditions set forth, and agrees to perform the same.

NAME OF CONTRACTOR	SIGNATURE	TYPED NAME AND TITLE	DATE SIGNED

STANDARD FORM 36, JULY 1966 GENERAL SERVICES ADMINISTRATION FED. PROC. REG. (41 CFR) 1-16.101	**CONTINUATION SHEET**	REF. NO. OF DOC. BEING CONT'D. M67001-79-M-5881	PAGE 2 OF 2

NAME OF OFFEROR OR CONTRACTOR

THE GEORGE SEELKE CO.

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	F.O.B. Chattanooga TN. Transportation charges estimated not to exceed $75.00. All transportation charges prepaid and listed on dealer's invoice as a separate item.				
	INQUIRIES REGARDING THIS ORDER SHOULD BE MADE TO: MRS. BATCHELOR (919-451-2186)				

C43—16—79531-1 GPO : 1967 O—261-063

RR-85

Filter Pump #1 (10 HP)
Filter Pump #2 (10 HP)
High Lift Pump #1 (25 HP)
High Lift Pump #2 (25 HP)
High Lift Pump #3 (40 HP)
Well Pump #45 (7.5 HP)
Well Pump #47 (10 HP)
Well Pump #227 (7.5 HP)

MCAS

Pool Cir. Pump (2 ea) #202 (25 HP)
Pool Cir. Pump #708 (10 HP)
High Lift Pump #2003 #1 (50 HP)
High Lift Pump #2003 #2 (50 HP)
High Lift Pump #2003 #3 (10 HP)
High Lift Pump #2003 #4 (10 HP)

MCAS-110

High Lift Pump #1 (100 HP)
High Lift Pump #2 (50 HP)
High Lift Pump #3 (20 HP)
Backwash Pump (40 HP)
Filter Pump #1 (5 HP)
Filter Pump #2 (7.5 HP)
Filter Pump #3 (15 HP)
Well Pump #106 (15 HP)
Well Pump #131 (7.5)HP
Well Pump #203 (7.5 HP)
Well Pump #1002 (5 HP)
Well Pump #3506 (5 HP)
Well Pump #4140 (5 HP)
Well Pump #4150 (5 HP)
Well Pump #5001 (5 HP)
Well Pump #5009 (5 HP)

HADNOT POINT

High Lift Pump #1 (75 HP)
High Lift Pump #2 (50 HP)
High Lift Pump #3 (40 HP)
High Lift Pump #4 (25 HP)
Raw Water Booster Pumps #1 (60 HP)
Raw Water Booster Pump #2 (75 HP)
Raw Water Booster Pump #3 (100 HP)
Filter Wash Water Pump (75 HP)
Pool Cir. Pump #2615 (10 HP)
Pool Cir. Pump #236 (25 HP)
Pool Cir. Pump #540 (25 HP)
Booster Pump #742 (15 HP)
Well Pump #601 (7.5 HP)
Well Pump #602 (5 HP)
Well Pump #603 (10 HP)
Well Pump #606 (10 HP)
Well Pump #608 (7.5 HP)
Well Pump #609 (7.5 HP)
Well Pump #610 (7.5 HP)
Well Pump #611 (10 HP)
Well Pump #612 (7.5 HP)
Well Pump #613 (10 HP)
Well Pump #614 (10 HP)
Well Pump #615 (7.5 HP)
Well Pump #616 (10 HP)
Well Pump #617 (10 HP)
Well Pump #620 (10 HP)
Well Pump #621 (7.5 HP)
Well Pump #625 (10 HP)
Well Pump #626 (10 HP)
Well Pump #627 (10 HP) (Motor in for repair)
Well Pump #632 (15 HP)
Well Pump #634 (7.5 HP)
Well Pump #635 (7.5 HP)
Well Pump #636 (7.5 HP)
Well Pump #638 (10 HP)
Well Pump #639 (20 HP)
Well Pump #640 (15 HP)
Well Pump #641 (15 HP)
Well Pump #642 (7.5 HP)
Well Pump #4006 (20 HP)
Well Pump #4007 (20 HP)

CG-508

High Lift Pump #1 (40 HP)
High Lift Pump #2 (40 HP)
High Lift Pump #3 (40 HP)
Filter Pump #1 (15 HP)

CG-508(cont'd)

Filter Pump #3 (15 HP)
Brine Pump #1 (3 HP)
Brine Pump #2 (3 HP)
Well Pump"B" (3 HP)
Well Pump "D" (10 HP)
Well Pump "E" (3 HP)
Well Pump "F" (3 HP)
Well Pump "G" (3 HP)
Well Pump "H" (5 HP)
Well Pump "I" (5 HP)
Well Pump "J" (7.5 HP)
Well Pump "K" (5 HP)
Well Pump "L" (5 HP)
Well Pump "M" (5 HP)
Well Pump UL-108 (3 HP)

HB-670

Backwash Pump (150 HP)
Surface Wash pump (15 HP)
Air Compressor (2 ea) (10 HP)
Blower #1 (5 HP)
Blower #2 (30 HP)
High Lift Pump #1 (40 HP)
High Lift Pump #2 (40 HP)
High Lift Pump #3 (100 HP)
High Lift Pump #4 (100 HP)
Well Pump #647 (10 HP)
Well Pump #648 (20 HP)
Well Pump #649 (20 HP)
Well Pump #650 (40 HP)
Well Pump #651 (10 HP)
Well Pump #652 (15 HP)
Well Pump #653 (15 HP)
Well Pump #654 (10 HP)

Tarawa Terrace

Well #54 (10 HP)
Well #26 (7.5 HP)
Well #53 (15 HP)
Well #31 (7.5 HP)
Well #67 (7.5 HP)
Well #52 (15 HP)
Well #30 (5 HP)

Tarawa Terrace (cont'd)

High Lift Pump #1 (75 HP)
High Lift Pump #2 (50 HP)
High Lift Pump #3 (40 HP)
High Lift Pump #4 (25 HP)

Montford Point

Service Pump #1 (25 HP)
Service Pump #2 (50 HP)
Service Pump #3 (50 HP)
Well Pump #142 (7.5 HP)
Well Pump #168 (7.5 HP)
Well Pump #197 (20 HP)
Well Pump #243 (10 HP)
Well Pump #244 (20 HP)
Well Pump #628 (7.5 HP)
Pool Cir. Pump #M-139 (25 HP)

BB-190

High Lift Pump #1 (25 HP)
High Lift Pump #2 (25 HP)
High Lift Pump #3 (40 HP)
Filter Pump #1 (10 HP)
Filter Pump #2 (10 HP)
Well Pump #43 (5 HP)
Well Pump #44 (5 HP)
Well Pump #3 (7.5 HP)
Well Pump #4 (10 HP)

BA-138

High Lift Pump #1 (15 HP)
High Lift Pump #2 (40 HP)
High Lift Pump #3 (50 HP)
Booster Pump (Classroom) (3 HP)
Well Pump #109 (10 HP)
Well Pump #164 (15 HP)

A-5

Well Pump (15 HP)

RR-85

Filter Pump #1 (10 HP)
Filter Pump #2 (10 HP)
High Lift Pump #1 (25 HP)
High Lift Pump #2 (25 HP)
High Lift Pump #3 (40 HP)
Well Pump #45 (7.5 HP)
Well Pump #47 (10 HP)
Well Pump #227 (7.5 HP)

MCAS

Pool Cir. Pump (2 ea) #202 (25 HP)
Pool Cir. Pump #708 (10 HP)
High Lift Pump #2003 #1 (50 HP)
High Lift Pump #2003 #2 (50 HP)
High Lift Pump #2003 #3 (10 HP)
High Lift Pump #2003 #4 (10 HP)

MCAS-110

High Lift Pump #1 (100 HP)
High Lift Pump #2 (50 HP)
High Lift Pump #3 (20 HP)
Backwash Pump (40 HP)
Filter Pump #1 (5 HP)
Filter Pump #2 (7.5 HP)
Filter Pump #3 (15 HP)
Well Pump #106 (15 HP)
Well Pump #131 (7.5)HP
Well Pump #203 (7.5 HP)
Well Pump #1002 (5 HP)
Well Pump #3506 (5 HP)
Well Pump #4140 (5 HP)
Well Pump #4150 (5 HP)
Well Pump #5001 (5 HP)
Well Pump #5009 (5 HP)

HADNOT POINT

High Lift Pump #1 (75 HP)
High Lift Pump #2 (50 HP)
High Lift Pump #3 (40 HP)
High Lift Pump #4 (25 HP)
Raw Water Booster Pumps #1 (60 HP)
Raw Water Booster Pump #2 (75 HP)
Raw Water Booster Pump #3 (100 HP)
Filter Wash Water Pump (75 HP)
Pool Cir. Pump #2615 (10 HP)
Pool Cir. Pump #236 (25 HP)
Pool Cir. Pump #540 (25 HP)
Booster Pump #742 (15 HP)
Well Pump #601 (7.5 HP)
Well Pump #602 (5 HP)
Well Pump #603 (10 HP)
Well Pump #606 (10 HP)
Well Pump #608 (7.5 HP)
Well Pump #609 (7.5 HP)
Well Pump #610 (7.5 HP)
Well Pump #611 (10 HP)
Well Pump #612 (7.5 HP)
Well Pump #613 (10 HP)
Well Pump #614 (10 HP)
Well Pump #615 (7.5 HP)
Well Pump #616 (10 HP)
Well Pump #617 (10 HP)
Well Pump #620 (10 HP)
Well Pump #621 (7.5 HP)
Well Pump #625 (10 HP)
Well Pump #626 (10 HP)
Well Pump #627 (10 HP) (Motor in for repair)
Well Pump #632 (15 HP)
Well Pump #634 (7.5 HP)
Well Pump #635 (7.5 HP)
Well Pump #636 (7.5 HP)
Well Pump #638 (10 HP)
Well Pump #639 (20 HP)
Well Pump #640 (15 HP)
Well Pump #641 (15 HP)
Well Pump #642 (7.5 HP)
Well Pump #4006 (20 HP)
Well Pump #4007 (20 HP)

CG-508

High Lift Pump #1 (40 HP)
High Lift Pump #2 (40 HP)
High Lift Pump #3 (40 HP)
Filter Pump #1 (15 HP)

Filter Pump #3 (15 HP)
Brine Pump #1 (3 HP)
Brine Pump #2 (3 HP)
Well Pump"B" (3 HP)
Well Pump "D" (10 HP)
Well Pump "E" (3 HP)
Well Pump "F" (3 HP)
Well Pump "G" (3 HP)
Well Pump "H" (5 HP)
Well Pump "I" (5 HP)
Well Pump "J" (7.5 HP)
Well Pump "K" (5 HP)
Well Pump "L" (5 HP)
Well Pump "M" (5 HP)
Well Pump UL-108 (3 HP)

HB-670

Backwash Pump (150 HP)
Surface Wash pump (15 HP)
Air Compressor (2 ea) (10 HP)
Blower #1 (5 HP)
Blower #2 (30 HP)
High Lift Pump #1 (40 HP)
High Lift Pump #2 (40 HP)
High Lift Pump #3 (100 HP)
High Lift Pump #4 (100 HP)
Well Pump #647 (10 HP)
Well Pump #648 (20 HP)
Well Pump #649 (20 HP)
Well Pump #650 (40 HP)
Well Pump #651 (10 HP)
Well Pump #652 (15 HP)
Well Pump #653 (15 HP)
Well Pump #654 (10 HP)

Tarawa Terrace

Well #54 (10 HP)
Well #26 (7.5 HP)
Well #53 (15 HP)
Well #31 (7.5 HP)
Well #67 (7.5 HP)
Well #52 (15 HP)
Well #30 (5 HP)

Tarawa Terrace (cont'd)

High Lift Pump #1 (75 HP)
High Lift Pump #2 (50 HP)
High Lift Pump #3 (40 HP)
High Lift Pump #4 (25 HP)

Montford Point

Service Pump #1 (25 HP)
Service Pump #2 (50 HP)
Service Pump #3 (50 HP)
Well Pump #142 (7.5 HP)
Well Pump #168 (7.5 HP)
Well Pump #197 (20 HP)
Well Pump #243 (10 HP)
Well Pump #244 (20 HP)
Well Pump #628 (7.5 HP)
Pool Cir. Pump #A-139 (25 HP)

BB-190

High Lift Pump #1 (25 HP)
High Lift Pump #2 (25 HP)
High Lift Pump #3 (40 HP)
Filter Pump #1 (10 HP)
Filter Pump #2 (10 HP)
Well Pump #43 (5 HP)
Well Pump #44 (5 HP)
Well Pump #3 (7.5 HP)
Well Pump #4 (10 HP)

BA-138

High Lift Pump #1 (15 HP)
High Lift Pump #2 (40 HP)
High Lift Pump #3 (50 HP)
Booster Pump (Classroom) (3 HP)
Well Pump #109 (10 HP)
Well Pump #164 (15 HP)

A-5

Well Pump (15 HP)

Water Treatment Buildings and Tanks

Elevated Water Tanks

S-830—300,000 — CAPEHART

S-5--------300,000 Gal. Cap. Area #2
S-29-------300,000 " " " #5
S-1000-----300,000 " " " Ind.
S2323------200,000 " " " P.P
S-4004-----200,000 " " " Midway P.
SM-624-----150,000 Mont. P. " Mont. P. CLEAR ROAD
STT-40-----250,000 " " "Tarawa T.
STC-606----100,000 " " " C.Geiger
STC-1070---100,000 " " " C. Geiger
SRR-44-----100,000 " " " Rifle R.
SBB-25-----100,000 " " " C. Bay
SBA-108----100,000 " " " Onslow B.
~~ES-108-----~~ " " " E.T
Eng. Stock.

Ground Storage Tanks

S-735-------500,000 Gal. Cap. H.P
S-763-----2,000,000 " " " bldg.
750,000 " " " (part of 20)
SM-179------400,000 " " M. Pt.
STT-39------750,000 " " Tarawa T.
STC-500-----272,000 " " C. Geiger
STC-503-----272,000 " " " "
STC-509-----600,000 " " " "
SBA-139-----250,000 " " ONSLOW B.
A-4--------- Amphibious B.
SRR 86 360,000 RIFLE R.

Pump Houses

601 H.P.
602 "
603 "
604 "
605 "
606 "
608 "
609 "
610 "
611 "
612 "
613 "
614 "
615 "
616 "
617 "
618 "
619 "
620 "
621 "
624 "
625 "
626 "
627 "
628 "
629 "
630 "
631 "
632 "
633 "
634 "
635 "
636 "
2322 Paradise P.
4006 Midway P.
4007 " "
M-141 Mont. Pt.
M-142 " "
M-168 " "
M-243 " "
M-244 " "

M-626 Mont. Pt.
M-627 " "
RR-45 Rifle Range
RR-47 " "
RR-227 " "
A-5 Amphibious B.
BB-43 C. Bay
BB-44 " "
BA-109 Onslow B.
BA-110 " "
STT-26 Tarawa T.
STT-27 " "
STT-28 " "
STT-29 " "
STT-31 Gum Branch Rd.
STT-45 " " "
ES-109 Engineers Stockade
H-37 Naval Hosp. Area
STT-30 Tarawa T

VL-110 PUMP HOUSE
SVL-108 WATER TANK
SVL 109 WELL
VL 154 PUMP HOUSE

Water Treatment Plants

H.P.--20
M.P.--M-178
T.T.--TT-38
C.G.--TC-501 (Pumping Pl.)
C.G.--TC-508 (Softening Pl.)
O.B---BA-138

Brine Tanks

M. Pt.------ (Part of water Pl)
C.G.--------STC-619
O.B.--------SBA-140

ELEVATED WATER TANKS

S-5	300,000	Gal. Cap.	Area #2
S-29	300,000	Gal. Cap.	Area #5
S-1000	300,000	Gal. Cap.	" Ind.
S-2323	200,000	Gal.	" P.P.
S-4004	200,000	"	" Midway P.
SM-624	150,000	"	" Mont.Pt.
STT-40	250,000	"	" Tarawa T.
STC-606	100,000	"	" C.Geiger
STC-1070	100,000	"	" C.Geiger
SRR-44	100,000	"	" Rifle Range
SBB-25	100,000	"	" C. Bay
SBA-108	100,000	"	" Onslow B

GROUND STORAGE TANKS

S-735	500,000	Gal. Cap.	H.P.
S-763	2,000,000	" "	H.P.
No #	750,000	" "	H.P.
SM-179	400,000	" "	M.Pt.
STT-39	750,000	" "	T.T.
STC-500	272,000	" "	C.Geiger
STC-503	272,000	" "	C.Geiger
STC-509	600,000	" "	C.Geiger
SBA-139	250,000	" "	C.Geiger

PUMP HOUSES

HADNOT POINT	MONTFORD POINT	CAMP GEIGER	RIFLE RANGE	COURTHOUSE BAY	ONSLOW BEACH
601W	M-141 (Z)	TC-104 (A)	RR-45A (S)	A-5A (U)	BA-109 (22)
602	M-142 (Z1)	TC-100 (B)	RR-46 (T)	BB-44 (V)	BA-110A(23)
603W	M-243 (Z2)	~~TC-300 (C)~~	RR-47 (S-1)	BB-43A(W)	
~~605~~	M-244 (Z3) CAVED	TC-502H (D)	RR-227A (T-1)		
606	M-627 (Z4) CAVED	TC-600 (E)			
608A	M-626 (Z5)	TC-700 (F)			
609	M-168 (Z6)	TC-901 (G)			
610A	M-143 (WC1)	TC-201 (H)			
611		TC-202 (I)			
612		TC-504W (J)			
613A		TC-604 (K)			
614		TC-1000 (L)	Total 3	Total 3	Total 2
615		TC-1001W(M)			
616	Total 8	Total 12			
617 CAVED					
618					
619 CAVED					
620	TARAWA TERRACE	ENGINEER STOCKAGE-1			
621W	#1	TRIANGLE----------1			
~~622A~~	2	NAVAL HOSPITAL----1			
625A	3				
626A	5	Total 3			
627A	6				
~~628A~~	7				
~~629A~~	Total 6				
~~630~~					
~~631~~					
632					
2322(R) No well					
4006 (LCH) M1					
4007 (LCH2) M2					
633					
634					
635					
636					
641					
650					
651					

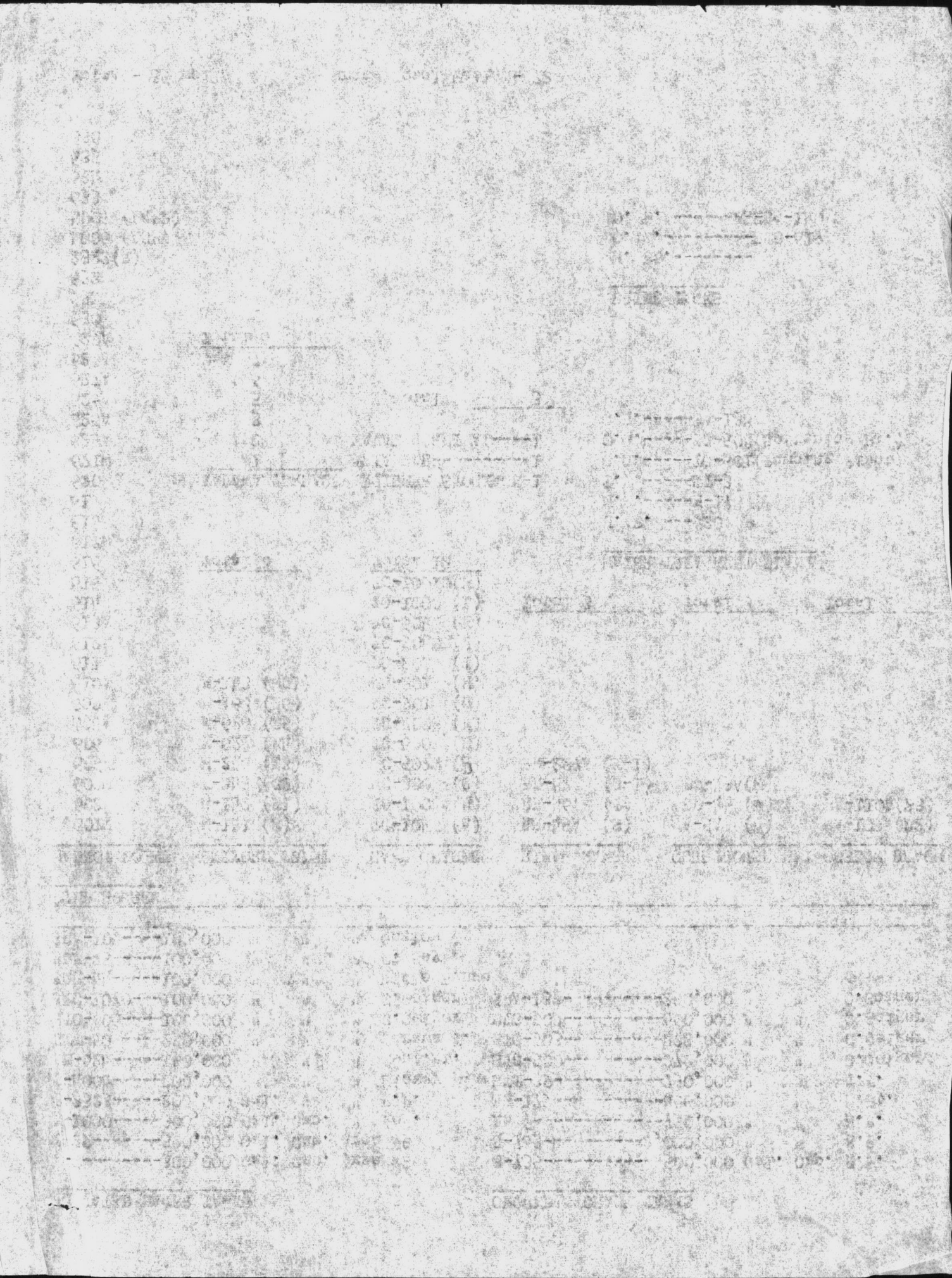
WATER TREATMENT PLANTS

H. P. ---#20
M.P.-----M-178
T.T.-----TT-38
C.G.-----TC-501(Pumping Plant)
C.G.-----TC-508(Softening Pl.)
O.B.-----BA-138

BRINE TANKS

M. Pt.--------
C. G.---------STC-619
O. B. --------SBA-140

Total - 35 wells Grand Total Wells - 72



SPECIFICATION
NO. 15581
ADDENDUM NO. 1

ADDITION TO WATER TREATMENT PLANT AND WATER MAINS

CAMP LEJEUNE, N. C.

SECTION 11. PAINTING. Delete Paragraph (i) of Sub-section 11-02.

SECTION 16. MISCELLANEOUS PIPING. Delete Sub-section 16-05.

SECTION 21. CHLORINATING EQUIPMENT. Delete the entire section and substitute therefor the following:

SECTION 21X. CHLORINATING EQUIPMENT.

21-01. Scope.- Work under this heading includes furnishing labor, material and equipment necessary for the provision of certain auxiliary equipment as specified herein.

21-02. Equipment.- Each of the two existing Wallace and Tierna Type MASV- M chlorinators in the existing plant shall be equipped with auxiliary injectors for completely automatic, semi-automatic, and zero flow conditions. All of the equipment required shall be the standard product of a recognized manufacturer and shall be constructed of materials designed for long life in the service intended. All parts shall be accessible readily and design shall provide for easy disassembly and assembly for inspection, cleaning and repair. The work shall include all necessary and incidental piping, valves, drains, connections, etc. required for complete installation. All work shall be done in a first-class, workmanlike manner and shall be satisfactory to the Officer in Charge.

21-03. Manufacturer's Engineer.- The services of a qualified engineer representing the manufacturer of the equipment shall be furnished to check the installation, to start and adjust the equipment and to instruct the Officer in Charge in its operation and maintenance. One complete set of operating instructions shall be furnished for all equipment.

SECTION 25. MISCELLANEOUS EQUIPMENT. It should be noted that page 64 is a continuation of Sub-section 25-02, 700 G.P.M. Pump and Motor, as also is paragraph (o) Motor Starter on Page 63.

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

February 10, 1945

WATER TREATMENT AND SWIMMING POOL BACKWASH DATA

Note: All figures based on average daily flow and chemical usage for the past twelve months in the Water Treatment Branch.

Bldg 20 (Lime Treatment)

1. Designed plant capacity - 5 MGD
2. Daily flow - 3,856,000 GPD
3. Wash water - 4.13% of daily flow
4. Lime used - 3,856 lbs
5. Chlorine used - 65 lbs
6. Fluoride - 32 lbs

Bldg 670 (Lime Treatment)

1. Designed plant capacity - 2 MGD
2. Daily flow - 742,942 GPD
3. Wash water - 2.81% of daily flow
4. Lime used - 743 lbs
5. Chlorine used - 12 lbs
6. Fluoride used - 6 lbs

Bldg TT-38 (Lime Treatment)

1. Designed plant capacity - 1 MGD
2. Daily flow - 889,479 GPD
3. Wash water - 3.3% of daily flow
4. Lime used - 890 lbs
5. Chlorine used - 15 lbs
6. Fluoride used - 7 lbs

Bldg M-178 (Zeolite Treatment)

1. Deisigned plant capacity 750,000 GPD
2. Daily flow - 636,953 GPD
3. Washwater - 4.39% of daily flow
4. Calcium Chloride (salt) - 1500 lbs
5. Chlorine - 11 lbs
6. Phosphate - 6 lbs

Bldg TC-508 (Zeolite Treatment)

1. Designed plant capacity - 1.5 MGD
2. Daily flow - 580,000 GPD
3. Wash water - 5.99% of daily flow

Enclosure (1)

Bldg TC-508 cont'd

4. Calcium Chloride (salt) - 1800 lbs
5. Chlorine - 14 lbs
6. Phosphate - 10 lbs

(MCAS) Bldg 110 (Lime Treatment)

1. Designed plant capacity - 1 MGD
2. Daily flow - 643,000 GPD
3. Wash water - 5.59% of daily flow
4. Lime (Calcium Hydroxide) - 600 lbs
5. Chlorine - 20 lbs
6. Phosphate - 4 lbs
7. Alum - 30 lbs

Bldg RR-85 (Zeolite Treatment)

1. Designed plant capacity - 600,000 GPD
2. Daily flow - 362,000 GPD
3. Wash water - 7.15% of daily flow
4. Calcium Chloride (Salt) - 1150 lbs
5. Chlorine - 10 lbs
6. Lime - 50 lbs

Bldg BB-190 (Zeolite Treatment)

1. Designed plant capacity - 600,000 GPD
2. Daily flow - 309,000 GPD
3. Wash water - 8.11% of daily flow
4. Calcium Chloride (Salt) - 1,150 lbs
5. Chlorine - 8 lbs
6. Lime - 50 lbs

Bldg BA-138 (Zeolite Treatment)

1. Designed plant capacity - 250,000 GPD
2. Daily flow - 113,186 GPD
3. Wash water - 5.55% of daily flow
4. Calcium Chloride (Salt) - 672 lbs
5. Chlorine - 6 lbs

AVERAGE DAILY USE OF BACKWASH WATER

Area 5 Pool - 4339 GPD

Area 2 Pool - 4339 GPD

Montford Point Pool - 4339 GPD

Paradise Point Pool - 3360 GPD (Operates only 5 months per year)

Officers Pool (MCAS) - 2500 GPD (Operates only 5 months per year)

Enlisted Pool (MCAS) - 1500 GPD (Operates only 5 months per year)

CHEMICALS USED

All pools - 5 lbs Copper Sulfate per month

Aluminum Sulfate (ALUM) - Area 5, 2, MP, PP, use 10 lbs per month
Enlisted and Officers Pool use no Alum.

Sodium Bicarbonate (Soda Ash) - All pools use 15 lbs per day.

Chlorine - All pools use 10 lbs per day.

Dicalite - Officers Pool - 11 lbs per day.

Enlisted Pool - 15 lbs per day.

Maximum Day Each Month, Delivered Water

June 6, 1966
June 7, 1967

1961		
January	10	5,472,000
February	1	5,364,000
March	9	5,400,000
April	6	5,220,000
May	4	5,220,000
June	23	5,040,000
July	26	5,544,000
August	17	5,652,000
September	13	5,292,000
October	25	5,328,000
November	9	5,508,000
December	12	5,616,000
1962		
January	15	5,796,000
February	19	5,652,000
March	29	5,688,000
April	5	5,616,000
May	22	6,048,000
June	22	5,400,000
July	19	5,904,000
August	16	5,796,000
September	13	5,616,000
October	8	5,004,000
November	29	4,464,000
December	17	5,400,000
1963		
January	10	5,508,000
February	8	5,724,000
March	21	5,688,000
April	24	5,976,000
May	10	6,588,000
June	13	6,156,000
July	2	5,688,000
August	21	5,940,000
September	12	5,472,000
October	24	5,292,000
November	26	5,184,000
December	18	5,256,000
1964		
January	30	5,292,000
February	10	5,148,000
March	12	4,968,000
April	30	5,378,000
May	14	5,868,000
June	10	5,616,000
July	1	5,328,000
August	20	5,148,000
September	10	5,270,000
October	1	5,004,000
November	30	4,680,000
December	12	5,076,000
1965		
January	19	5,112,000
February	2	5,076,000
March	25	5,040,000
April	22	5,256,000
May	7	5,004,000
June	22	5,292,000
July	1	5,436,000
August	9	5,076,000
September	23	5,760,000
October	1	4,716,000
November	8	5,256,000
December	1	4,860,000
1966		
January	**18**	**5,148,000**
February	**10**	**5,292,00**
March	**3**	**5,328,000**
April	**20**	**5,508,000**
May	**5**	**5,256,000**
June	**8**	**5,868,000** —
July	**13**	**5,328,000**
August	**23**	**5,256,000**
September	**23**	**5,328,000**
October	**12**	**4,860,000**
November	**7**	**4,824,000**
December	**14**	**4,680,000**
1967		
January	**12**	**5,290,000**
February	**27**	**5,184,000**
March	**30**	**5,292,000**
April	**5**	**5,508,000**
May	**29**	**5,400,000**

September	23	$ 760,000
October	1	$ 715,000
November	8	$ 256,000
December	1	$ 860,000

ELEVATED WATER TANKS

S-5	300,000	Gal.	Cap.	Area #2
S-29	300,000	Gal.	Cap.	Area #5
S-1000	300,000	Gal.	Cap.	" Ind.
S-2323	200,000	Gal.	"	" P.P.
S-4004	200,000	"	"	" Midway P
SM-624	150,000	"	"	" Mont.Pt.
STT-40	250,000	"	"	" Tarawa T.
STC-606	100,000	"	"	" C.Geiger
STC-1070	100,000	"	"	" C.Geiger
SRR-44	100,000	"	"	" Rifle Range
SBB-25	100,000	"	"	" C. Bay
SBA-108	100,000	"	"	" Onslow B

12

GROUND STORAGE TANKS

S-735	500,000	Gal.	Cap.	H.P.
S-763	2,000,000	"	"	H.P.
No #	750,000	"	"	H.P. Rawles
SM-179	400,000	"	"	M.Pt.
STT-39	750,000	"	"	T.T.
STC-500	272,000	"	"	C.Geiger
STC-503	272,000	"	"	C.Geiger
STC-509	600,000	"	"	C.Geiger
SBA-139	250,000	"	"	~~C.Geiger~~ O.Beach

9

PUMP HOUSES

HADNOT POINT	MONTFORD POINT	CAMP GEIGER	RIFLE RANGE	COURTHOUSE BAY	ONSLOW BEACH
601W	M-141 (Z)	TC-104 (A)	RR-45A (S)	A-5A (U)	BA-109 (22)
602	M-142 (Z1)	TC-100 (B)	RR-46 (T)	BB-44 (V)	BA-110A (23)
603W	M-243 (Z2)	TC-300 (C)	RR-47 (S-1)	BB-43A (W)	
605	M-244 (Z3)	TC-502H (D)	RR-227A (T-1)		
606	M-627 (Z4)	TC-600 (E)			
608A	M-626 (Z5)	TC-700 (F)			
609	M-168 (Z6)	TC-901 (G)			
610A	C — M-143 (WC1) (Not on System	TC-201 (H)			
611		TC-202 (I)			
612		TC-504W (J)			
613A		TC-604 (K)			
614		TC-1000 (L)	Total 3	Total 3	Total 2
615		TC-1001W (M)			
616	Total 8	Total 12			
617W					
618					
619					
620					
621W					
624A					
625A					
626A					
627A					
628A					
629A					
630					
631					
632					
2322(R)					
4006 (LCH)					
4007 (LCH2)					
633					
634					
635					
636					

Discarded.

Discarded

stand by well at PP (Not on system

TARAWA TERRACE	
#1	
2	
3	
5	
6	
7	
Total	6

ENGINEER STOCKAGE	
TRIANGLE	1
NAVAL HOSPITAL	1
Total	3
Radio Island	1

WATER TREATMENT PLANTS

H. P. ---#20
M.P.-----M-178
T.T.-----TT-38
C.G.-----TC-501 (Pumping Plant)
C.G.-----TC-508 (Softening Pl.)
O.B.-----BA-138

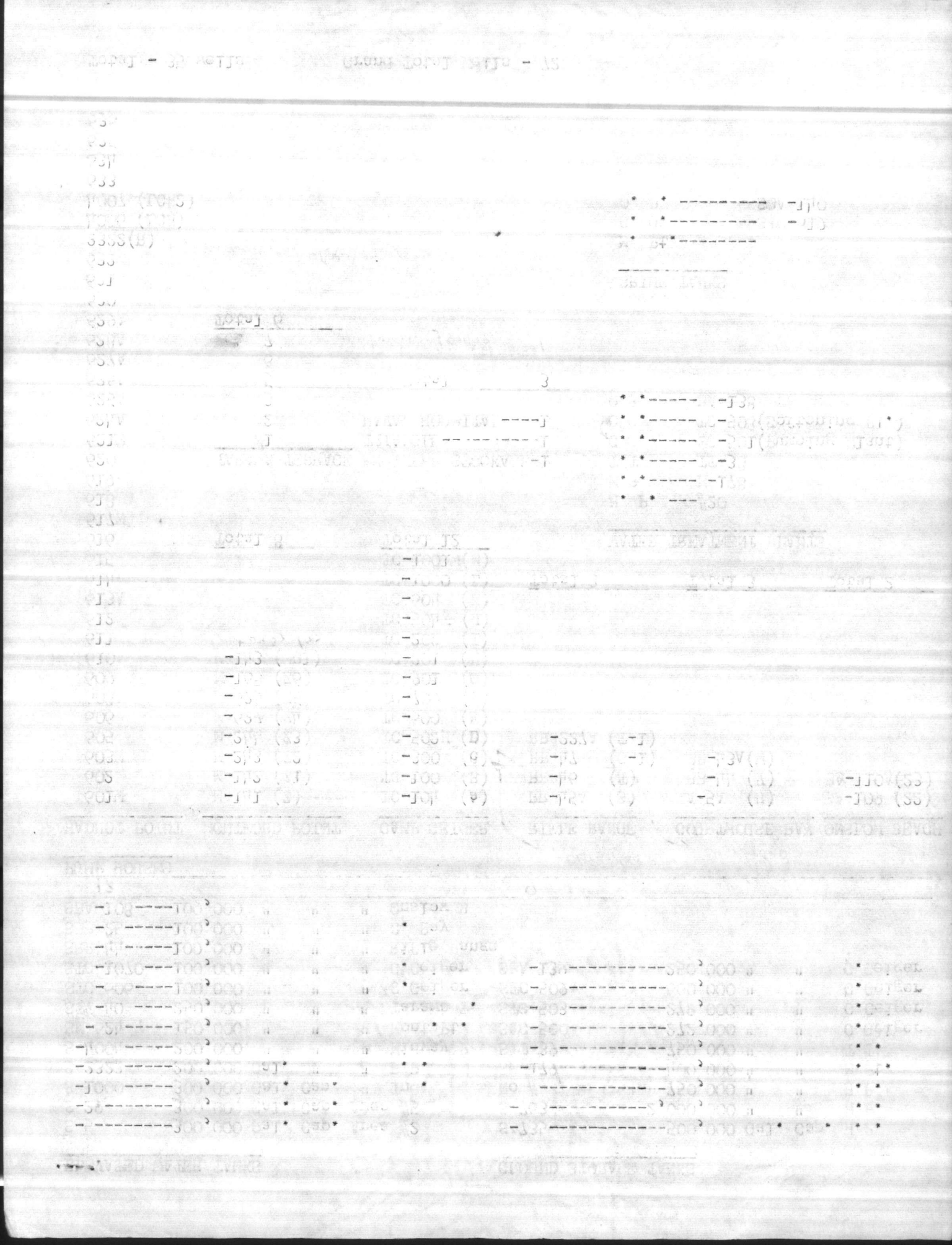
BRINE TANKS

M. Pt.--------
C. G.---------STC-619
O. B. -------SBA-140

Total - 35 wells

Grand Total Wells - 72

2 Not working



HADNOT POINT

BLDG. No.			
S-5	ELEVATED TANK	300,000	GAL. CAP.
S-29	" "	300,000	" "
S-1000	" "	300,000	" "
SFC-314	" "	300,000	" "
S-735	GROUND STORAGE TANK	500,000	" "
S-736	" " "	2,000,000	" "
PART OF BLDG 20	" " "	750,000	" "

HOLCOMB BLVD.

BLDG. No.			
S-830	ELEVATED TANK	300,000	GAL. CAP.
S-4004	" "	200,000	" "
S-2323	" "	200,000	" "
S-671	GROUND STORAGE TANK	1,000,000	" "

TARAWA TERRACE

BLDG. No.			
S-T.T. 39	GROUND STORAGE TANK	750,000	GAL. CAP.
S-T.T. 40	ELEVATED TANK	250,000	" "

MONTFORD POINT

BLDG. No.			
SM-624	ELEVATED TANK	150,000	GAL. CAP.
SM-179	GROUND STORAGE TANK	400,000	" "

Dec. 4, 1968

Maximum Flow for 1 month:

	thousand Gal. per Month
Hadnot Point Water Plant	152,910
Tarawa Terrace Water Plant	35,898
Montford Point Water Plant	17,418
Camp Geiger Water Plant	23,923
Rifle Range Water Plant	8,963
Onslow Beach Water Plant	3,407
Courthouse Bay System	10,790
A-5 System	767

Chuck and RR Hill

Maximum Flow for 1 month:

Thousand
Beaufort Water Plant------172,910 Gal. per month
Tarawa Terrace Water Plant---- 35,000 " " "
Montford Point Water Plant ---- 17,128 " " "
Camp Geiger Water Plant------- 23,023 " " "
Hadnot Point Water Plant------ 6,963 " " "
Onslow Beach Water Plant ----- 3,107 " " "
Courthouse Bay System -------- 10,290 " " "
Lejeune------------------------ 769 " " "

1959 -	TOTAL RAW WATER	1,787,627,000
	AVERAGE PER DAY FOR 1959 -	4,898,000
	AVERAGE PER DAY - PEAK MONTH - (DEC) -	5,122,000
1960 -	TOTAL RAW WATER	1,795,051,000
	AVERAGE PER DAY FOR 1960	4,918,000
	AVERAGE PER DAY FOR PEAK MONTH (JAN.) -	5,148,000
1961 -	TOTAL RAW WATER	1,812,068,000
	AVERAGE PER DAY FOR 1961	4,965,000
	AVERAGE PER DAY FOR PEAK MONTH (JAN) -	5,174,000
1962 -	TOTAL RAW WATER	1,850,406,000
	AVERAGE PER DAY FOR 1962	5,070,000
	AVERAGE PER DAY FOR PEAK MONTH (MAY) -	5,341,000
1963 -	TOTAL RAW WATER	1,887,743,000
	AVERAGE PER DAY FOR 1963	5,172,000
	AVERAGE PER DAY FOR PEAK MONTH (MAR) -	5,395,000
1964 -	TOTAL RAW WATER	1,679,208,000
	AVERAGE PER DAY FOR 1964	4,601,000
	AVERAGE PER DAY FOR PEAK MONTH (JAN.) -	5,178,000

(CONTD.)

1965 - TOTAL RAW WATER ——— 1,711,252,000

AVERAGE PER DAY FOR 1965 ——— 4,688,000

AVERAGE PER DAY FOR PEAK MONTH (AUG.) - 4,923,000

1966 - TOTAL RAW WATER ——— 1,723,899,000

AVERAGE PER DAY FOR 1966 ——— 4,723,000

AVERAGE PER DAY FOR PEAK MONTH (AUG.) - 4,952,000

1967 - TOTAL RAW WATER ——— 1,751,252,000

AVERAGE PER DAY FOR 1967 ——— 4,798,000

AVERAGE PER DAY FOR PEAK MONTH (JULY) - 5,129,000

DURING JAN. & FEB, 1968, THE RAW WATER WELLS WERE OPERATED 87.4% OF THE AVALLABLE TIME.

BASED ON THESE FIGURES, THE RAW WATER WELLS WILL DELIVER APPROX 5,800,000 GAL. PER DAY IF OPERATED CONTINOUSLY.

THIS INDICATES THAT THERE IS A DIRE NECESSITY FOR ADDITIONAL RAW WATER SUPPLY WELLS.

1953 Total Raw Water----------	1,696,551,000	gallons
Average per day----------	4,648,000	"
Peak month (Aug.)----------	5,456,000	"
1957 Total Raw Water----------	1,759,894,000	"
Average per day----------	4,822,000	"
Peak month (Dec.)----------	5,587,000	"
1968 January----------	134,640,000	"
Average per day		
~~February~~----------	4,343,000	"
February----------	126,918,000	"
Average per day- ----------	4,376,000	"

LIME 12/26/73

CHEMICALS USED PER DAY AND YEAR

BLDG #	DAY	YEAR
HP20	3500 lbs	1,277,500 lbs
T.T.38	900 LBS	328,500 LBS
HB670	960 LBS	350,000 LBS

CHLORINE

HP20	65 LBS	23,725 LBS
H.B.670	15 "	5475 "
TT-38	15 "	5,475 "
M-178	12 "	4,380 "
TC-508	13 "	4,745 "
RR-85	8 "	2,920 "
BB-190	8 "	2,920 "
BA-138	5 "	1,825 "
A-5	1.3 "	450 "

SALT

BLDG	DAY	YEAR
M-178	3,200 LBS	1,200,000 LBS
TC-508	2,465 "	900,000 "
RR-85	1,500 "	547,500 "
BB-190	1,500 "	547,500 "
BA-138	820 "	300,000 "

DELIVERED WATER FOR HADNOT POINT FOR THE FOLLOWING PSY. YEARS

1958	1,812,543
1959	1,703,165
1960	1,766,586
1961	1,743,647
1962	1,798,284
1963	1,805,744
1964	1,769,301
1965	1,620,185
1966	1,670,472

May 30, 1974

Hadnot Point Bldg. 20

Present Capacity of 34 Well Field.	5,500,000 G.P.D.
Present Average Demand	3,500,000 G.P.D.
Present Peak Demand	4,000,000 G.P.D.
Capacity of Plant	5,000,000 G.P.D.
Total Storage Reservoir & Elevated Tanks	4,450,000 Gals.

Holcomb Blvd. Bldg. 670

Present Capacity of 8 Well Field.	2,300,000 G.P.D.
Present Average Demand	850,000 G.P.D.
Present Peak Demand	1,500,000 G.P.D.
Capacity of Plant	2,000,000 G.P.D.
Total Storage Capacity RESERVOIR + ELEVATED TANKS	1,700,000 Gals.

Camp Geiger TC-508

Present Capacity of 12 Well Field.	1,800,000 G.P.D.
Present Average Demand	600,000 G.P.D.
Present Peak Demand	800,000 G.P.D.
Plant Capacity	1,500,000 G.P.D.
Total Storage	1,300,000 Gals.

Rifle Range RR-85

Present Capacity of 3 Well Field	800,000 G.P.D.
Present Average Demand	300,000 G.P.D.
Present Peak Demand	350,000 G.P.D.
Plant Capacity	600,000 G.P.D.
Total Storage	450,000 Gals.

Courthouse Bay BB-190

Present Capacity of 4 Well Field	425,000 G.P.D.
Present Average Demand	350,000 G.P.D.
Present Peak Demand	450,000 G.P.D.
Plant Capacity	600,000 G.P.D.
Total Storage	450,000 Gals.

Onslow Beach BA-138

Present Capacity of 2 Well Field	350,000 G.P.D.
Present Average Demand	80,000 G.P.D.
Present Peak Demand	100,000 G.P.D.
Plant Capacity	250,000 G.P.D.
Total Storage	350,000 Gals.

May 30, 1974

Tarawa Terrace TT-38

Present Capacity of 7 Well Field	1,200,000 G.P.D.
Present Average Demand	850,000 G.P.D.
Present Peak Demand	1,200,000 G.P.D.
Capacity of Plant	1,000,000 G.P.D.
Total Storage	1,000,000 Gals.

Montford Point M-178

Present Capacity of 5 Well Field	700,000 G.P.D.
Present Average Demand	600,000 G.P.D.
Present Peak Demand	700,000 G.P.D.
Capacity of Plant	750,000 G.P.D.
Total Storage	550,000 G.P.D.

MCAS - ?

May 31, 1974

Montford Point Wells

Well Z-1 Present Capacity 130,000 G.P.D.
with a draw-down of 20' draw-down has
varied from 18'to 24' over the past five
years.
Depth of well 69 feet.

Well Z-2 Present Capacity 145,000, G?P.D.
with a draw-down of 26' Variation of draw-down
for past five years was 24' to 31'
Depth of well is 95'

Well Z-5 Present Capacity 140,000 G.P.D.
with a draw-down of 25' variation of draw-down
for past five years was 24' to 30'
Depth of well 67'

Well Z-6 Present Capacity 85,000 G.P.D.
with a draw-down of 24', variation of
draw-down for past five years was 24'to 30'
Depth of well is 151'

Well M-197 Present Capacity 200,000 G.P.D.
with a draw-down of 17', variation of draw-
down for the pas four years 14' to 18'
Depth of well is 157'

Variation in draw-down very likely is due to slight change
in pressure and worn pumps.
Total five well present Capacity is 700,000 G.P.D.

May 31, 1974

Tarawa Terrace Wells

Well # 1 Present Capacity 150,000 G.P.D.
with a Draw-Down of 57' and has varied
from 57 to 64 feet over the past ten years.
Depth of Well 95 Feet.

Well # 9 Present Capacity 250,000 G.P.D.
with a Draw-Down of 47'. Draw-Down has
varied from 46' to 50' over the past ten
years.
Well drilled 1961 Depth 98'

Well #10 Present Capacity 250,000 G.P.D.
with a draw-down of 68' draw-down has
varied from 62' to 68' over the past ten years.
Well drilled 1961 Depth 90'

Well # 11 Present Capacity 200,000 G.P.D.
with a draw-down of 60' draw-down has varied
from 60' to 68' over the past ten years.
Well drilled 1961, Depth 104'

Well # 12 Present Capacity 120,000 G.P.D.
with a draw-down of 64' draw-down has
varied from 60' to 66' over the past ten years.
Well drilled 1972 Depth 110 feet

Well # 13 Present Capacity 110,000 G.P.D.
with a draw-down of 62' draw-down has varied
from 60' to 66' over the past ten years.
Well drilled 1972 Depth 98'

Well # 14 Present Capacity 120,000 G.P.D.
with a draw-down of 40' draw-down has varied
from 36' to 40'
Well drilled 1973 Depth 94'

Total seven well present capacity 1,200,000 G.P.D.
Variation of draw-down is very likely due to slight
change in pressure and worn pumps.

5 December 1968

Raw Water Available from Wells

Hadnot Point Wells ----------	163,000,000	Gal/	per	month
Tarawa Terrace wells----------	37,000,000	"	"	"
Montford Point wells----------	26,000,000	"	"	"
Camp Geiger wells----------	84,000,000	"	"	"
Rifle Range wells----------	25,000,000	"	"	"
Onslow Beach wells----------	9,000,000	"	"	"
Courthouse Bay Wells----------	11,000,000	"	"	"
A-5 wells----------	767,000	"	"	"

3947 3601

WATER AND SEWAGE DELIVERED, CAL. YEAR 1971

Water Delivered		Daily Average	Sewage Treated
Hadnot Point	1,506,454,000	4127,273	1,240,292,280
Montford Point	195,218,000	534,843	156,174,400
Camp Geiger	265,740,000	728,055	235,962,219
Rifle Range	152,662,000	418,252	128,885,000
Courthouse Bay	148,778,779	407,613	123,981,579
Onslow Beach	29,587,000	81,060	29,035,000
	2,298,439,779		1,914,330,478

Tarawa Terrace

Water Delivered		Sewage Treated
292,683,000	801,871	263,415,000
		224,146000

Col - 1971

Total water - 2,591,122,000

Sewage — 2,138.477,000

Hadnot Point Bldg 20

		GPD
1	Present Capacity of 34 Well field	5,500,000
	Present average demand	3,500,000 GPD
	Present peak demand	4,000,000 GPD
	Capacity of plant	5,000,000 GPD
	Total Storage Reservoir + elevated tanks	4,450,000 GALS

2	Holcomb Blvd. Bldg 670	
	Present Capacity of 8 well field	2,300,000 GPD
	Present average demand	850,000 G.P.D.
	Present peak demand	1,500,000 GPD
	Capacity of plant	2,000,000 G.P.D.
	Total Storage Capacity	1,700,000 GALS

(3)	Camp Geiger TC 508	
	Present Capacity of 12 well field	1,800,000 GPD
	Present average demand	600,000 GPD
	Present Peak demand	800,000 GPD
	Plant Capacity	1,500,000 GALS
	Total Storage	1,300,000 GALS

(4)	Rifle Range RR 85	
	Present Capacity of 3 well field	800,000 GPD
	Present average demand	300,000 GPD
	Present Peak demand	350,000 GPD
	Plant Capacity	600,000 GPD
	Total Storage	450,000 GALS

Water Treatment Plant, Hadnot Point, Bldg 20, Capacity----------5,000,000 Gal. per day

Water Treatment Plant, Tarawa Terrace, Bldg. TT38, Capacity-------1,000,000 " " "

Water Treatment Plant, Montford Point, Bldg. M-178, Capacity------ 750,000 " " "

Water Treatment Plant, Camp Geiger, ~~Bldg~~ Bldgs TC501, Capacity-----1,500,000 " " "
& TC508

Water Treatment Plant, Rifle Range, Bldg RR85, Capacity---------- 600,000 " " "

Water Treatment Plant, Onslow Beach, Bldg BA-138, Capacity-------- 250,000 " " "

Courthouse Bay Wells Capacity-------- 400,000 " " "

Amphibian Base--A-5 Well Capacity-------- 250,000 " " "

Engineer Stockade Well Capacity-------- 100,000 " " "

Total Capacity-------9,850,000 " " "

Maximum Damand per day ~~6,192,000 Gal x per x day~~

Hadnot Paint Plant---------- 6,192,000 Gal per day
Tarawa Terrace plant---------~~(1,284,000)~~--- 1,284,000 " " "
Montford Point Plant---------- 1,075,000 " " "
Camp Geiger Plant---------- 783,000 " " "
Rifle Range Plant---------- 387,000 " " "
Onslow Beach Plant ---------- 120,000 " " "

	RAW	Treated	Delivered	Wash Water
Aug. 12	3,623,000	3,798,000	3,564,000	192,000
13	3,901,000	4,158,000	3,636,000	192,000
14	4,509,000	4,986,000	4,428,000	192,000
15	4,559,000	5,004,000	4,356,000	192,000
16	4,663,000	5,094,000	4,536,000	192,000
17	4,577,000	5,058,000	4,608,000	192,000
18	4,563,000	4,986,000	4,500,000	198,000
19	4,280,000	4,518,000	3,888,000	192,000
20	4,108,000	4,266,000	3,924,000	192,000
21	4,498,000	5,094,000	4,572,000	154,000
22	4,713,000	5,166,000	4,716,000	192,000
23	4,720,000	5,346,000	4,644,000	192,000

	RAW	Treated	Delivered	Wash Water
g. 12	3,623,000	3,798,000	3,564,000	192,000
13	3,901,000	4,158,000	3,636,000	192,000
14	4,509,000	4,986,000	4,428,000	192,000
15	4,559,000	5,004,000	4,356,000	192,000
16	4,663,000	5,094,000	4,536,000	192,000
17	4,577,000	5,058,000	4,608,000	192,000
18	4,563,000	4,986,000	4,500,000	198,000
19	4,280,000	4,518,000	3,888,000	192,000
20	4,108,000	4,266,000	3,924,000	192,000
21	4,498,000	5,094,000	4,572,000	154,000
22	4,713,000	5,166,000	4,716,000	192,000
23	4,720,000	5,346,000	4,644,000	192,000

12-4-68

Water Treatment Plant, Hadnot Point, Bldg 20, Capacity----------5,000,000 Gal. per day

Water Treatment Plant, Tarawa Terrace, Bldg. TT38, Capacity-------1,000,000 " " "

Water Treatment Plant, Montford Point, Bldg. M-178, Capacity------ 750,000 " " "

Water Treatment Plant, Camp Geiger, ~~Bldg~~ Bldgs TC501, Capacity-----1,500,000 " " "
& TC508

Water Treatment Plant, Rifle Range, Bldg RR85, Capacity---------- 600,000 " " "

Water Treatment Plant, Onslow Beach, Bldg BA-138, Capacity-------- 250,000 " " "

Courthouse Bay ~~Wells~~ PLANT BLDG BB 190 Capacity-------- ~~400,000~~ 600,000 " " "

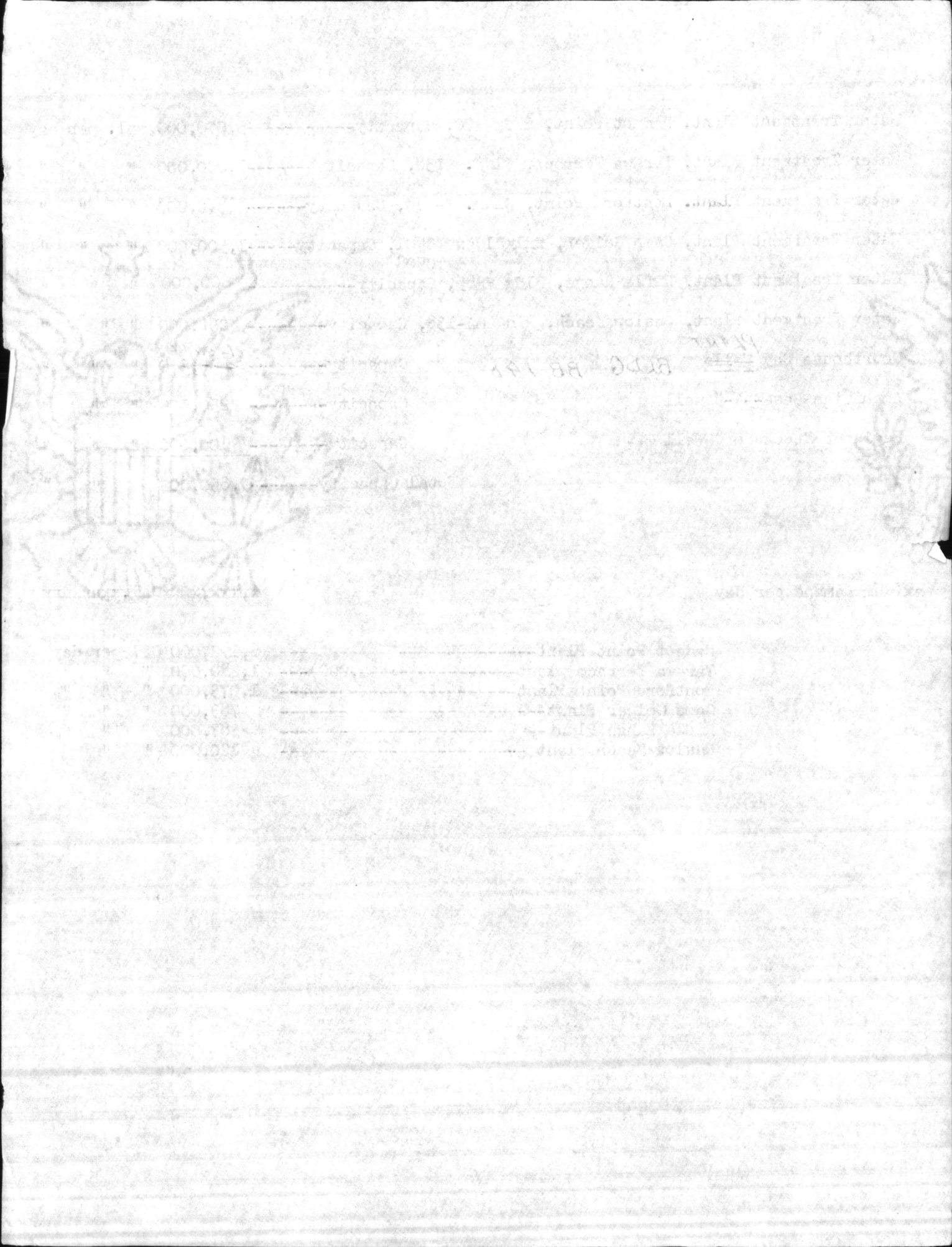
Amphibian Base--A-5 Well Capacity-------- 250,000 " " "

~~Engineer Stockade Well~~ ABANDONED Capacity-------- 100,000 " " "

Total Capacity-------9,850,000 " " "

Maximum Damand per day ~~6,192,000 Gal per day~~

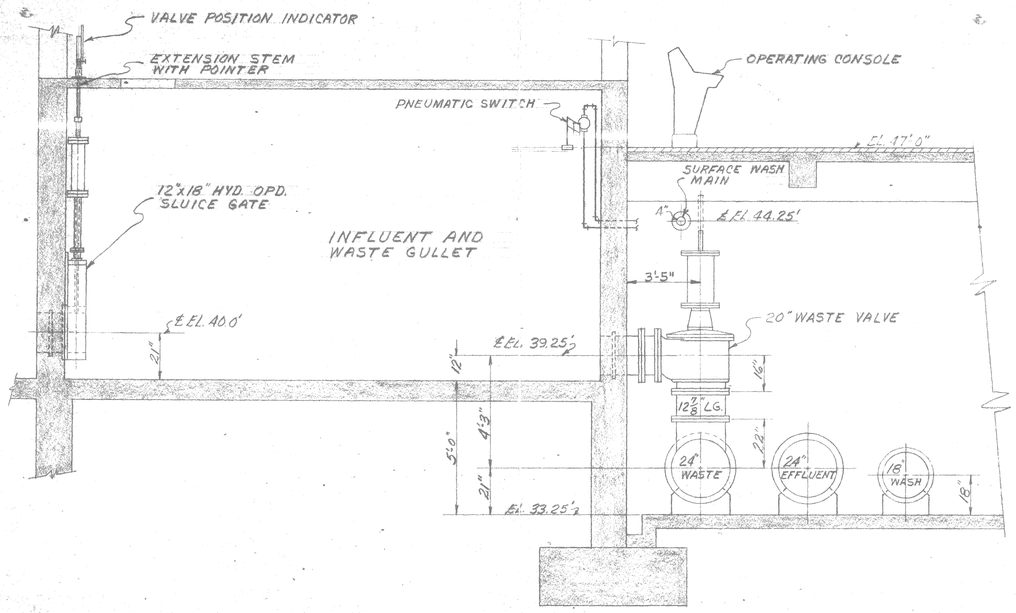
Hadnot Paint Plant----------	6,192,000	Gal	per	day
Tarawa Terrace plant---------~~(1,284,000)~~---	1,284,000	"	"	"
Montford Point Plant----------	1,075,000	"	"	"
Camp Geiger Plant----------	783,000	"	"	"
Rifle Range Plant----------	387,000	"	"	"
Onslow Beach Plant ----------	120,000	"	"	"



5 December 1968

Raw Water Available from Wells

Hadnot Point Wells	163,000,000	Gal.	per	month
Tarawa Terrace wells	37,000,000	"	"	"
Montford Point wells	26,000,000	"	"	"
Camp Geiger wells	84,000,000	"	"	"
Rifle Range wells	25,000,000	"	"	"
Onslow Beach wells	9,000,000	"	"	"
Courthouse Bay Wells	11,000,000	"	"	"
A-5 wells	767,000	"	"	"



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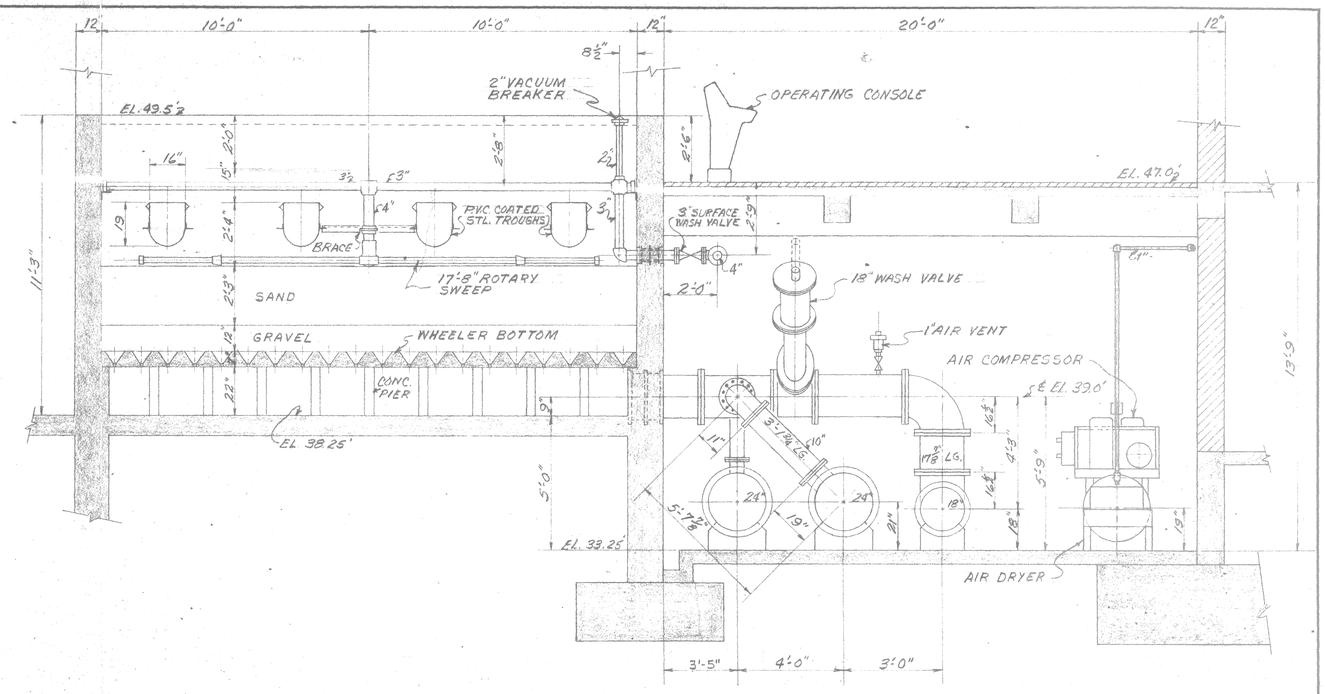

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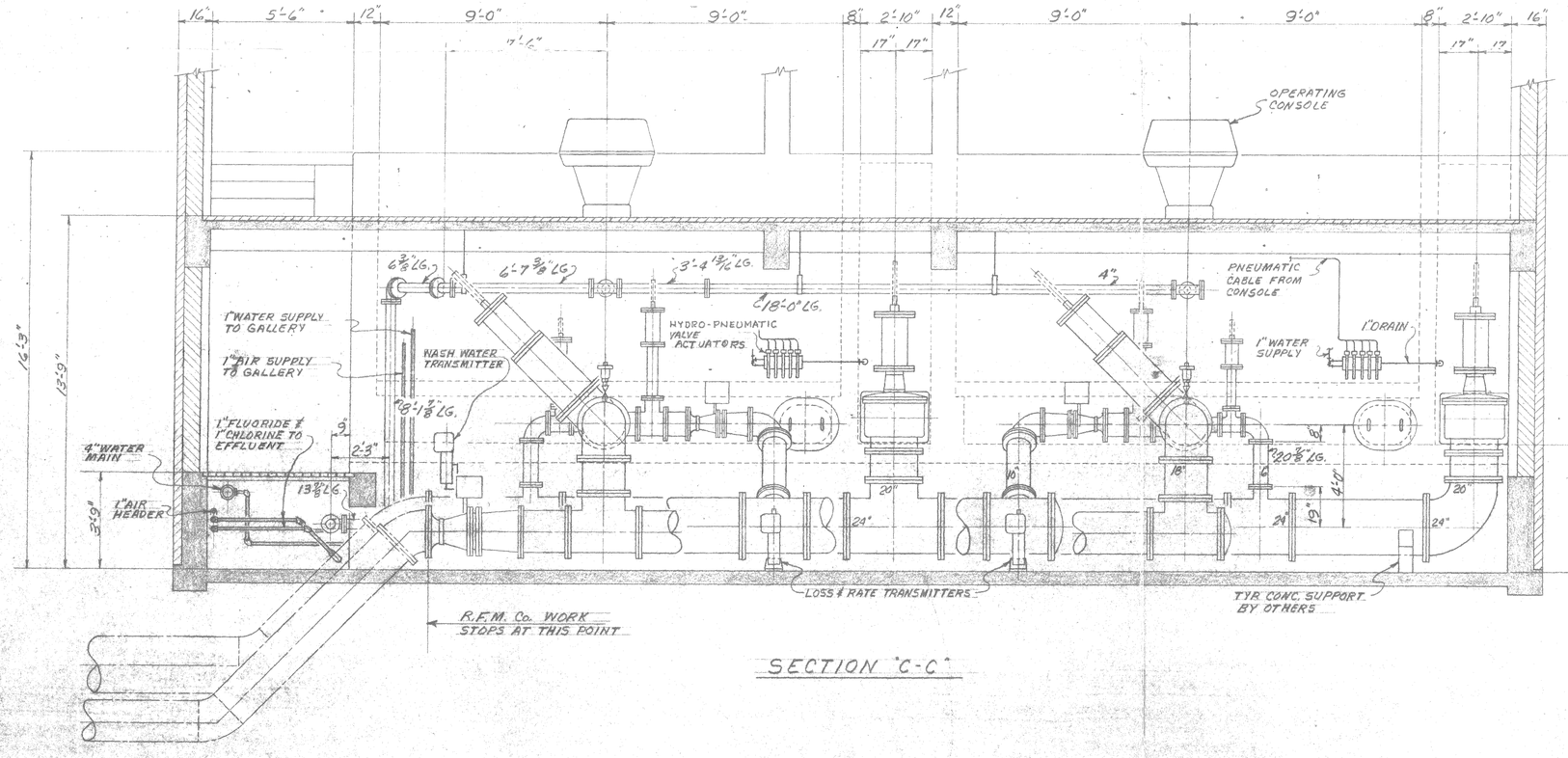

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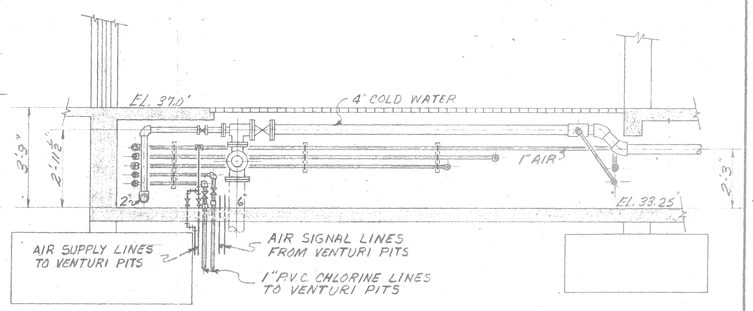


SECTION "D-D"

SECTIONS ON THIS SHEET ARE TAKEN FROM PLAN ON DWG. # 6249-2.

APPROVED OR APPROVED AS NOTED
For Chief, Bureau of Yards and Docks
Chief Construction Officer
Public Works Officer
Date 27 Sept 71

No.	REVISION	DATE	BY
2			
1	REVISED PIPING & SLUICE G. ADDED PNEU SWITCH	1-19-71	R.W.

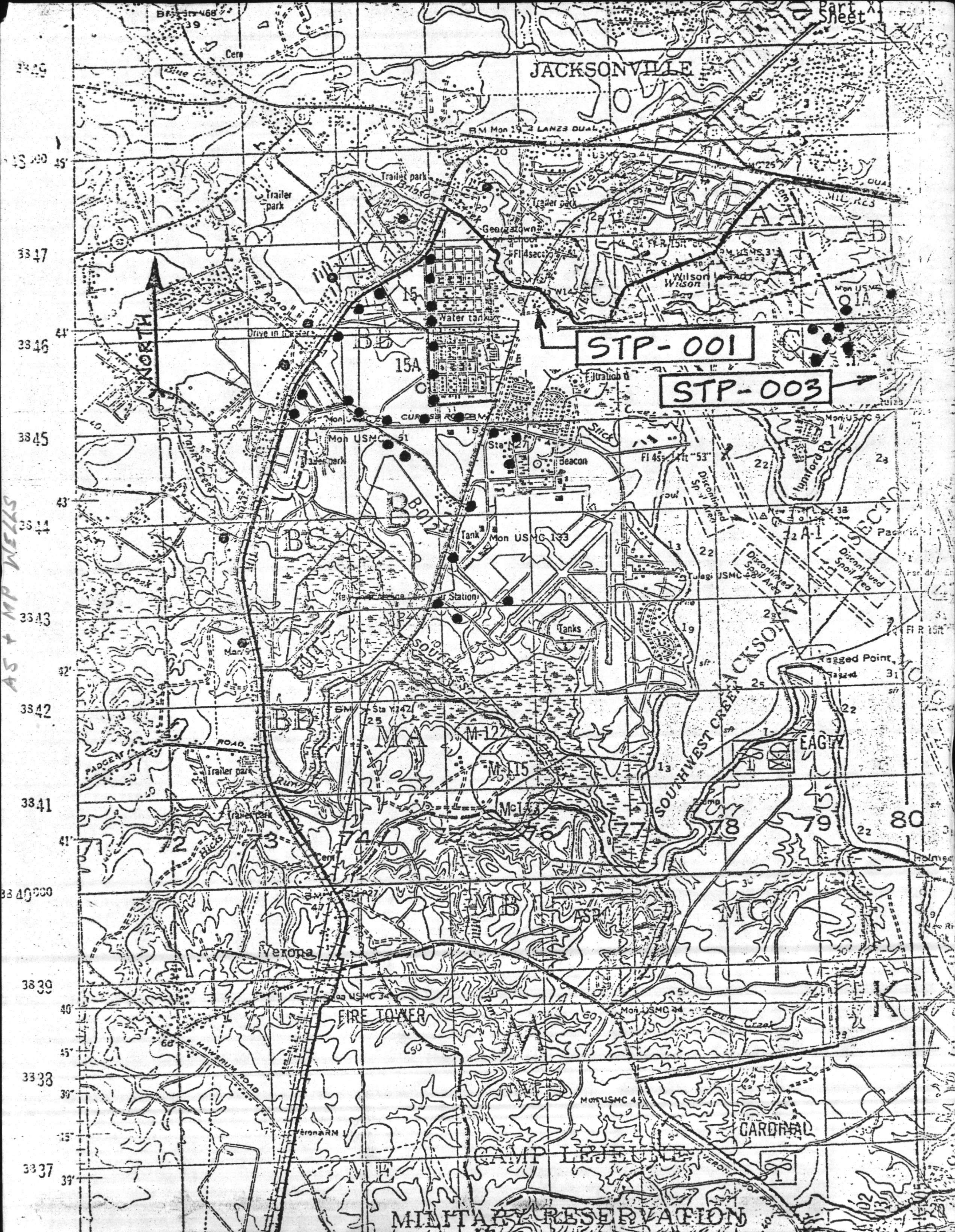
SECTIONS, FILTERS & PIPE GALLERY
MARINE CORPS BASE
CAMP LEJEUNE, N.C.

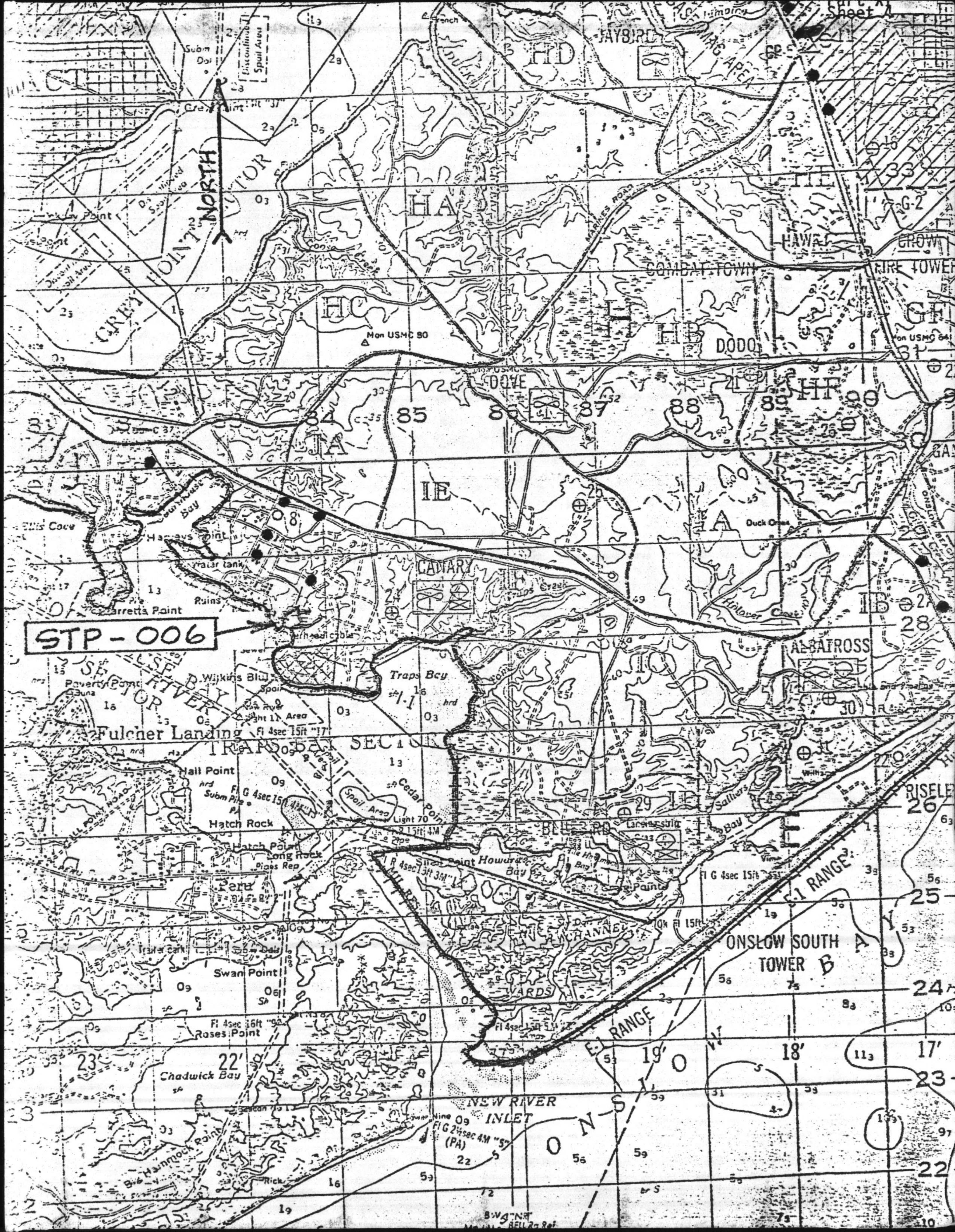
ROBERTS FILTER MFG. CO.
DARBY, PENNA.

DRAWN C.W.K.	DATE 12-11-70	CHECKED R.W.	DATE 12-11-70
TRACED	DATE	APPROVED	DATE
SCALE 3/8" = 1'-0"		CONTRACT 1683	S.O.
SECTION 6		DRAWING No. 6249-3	

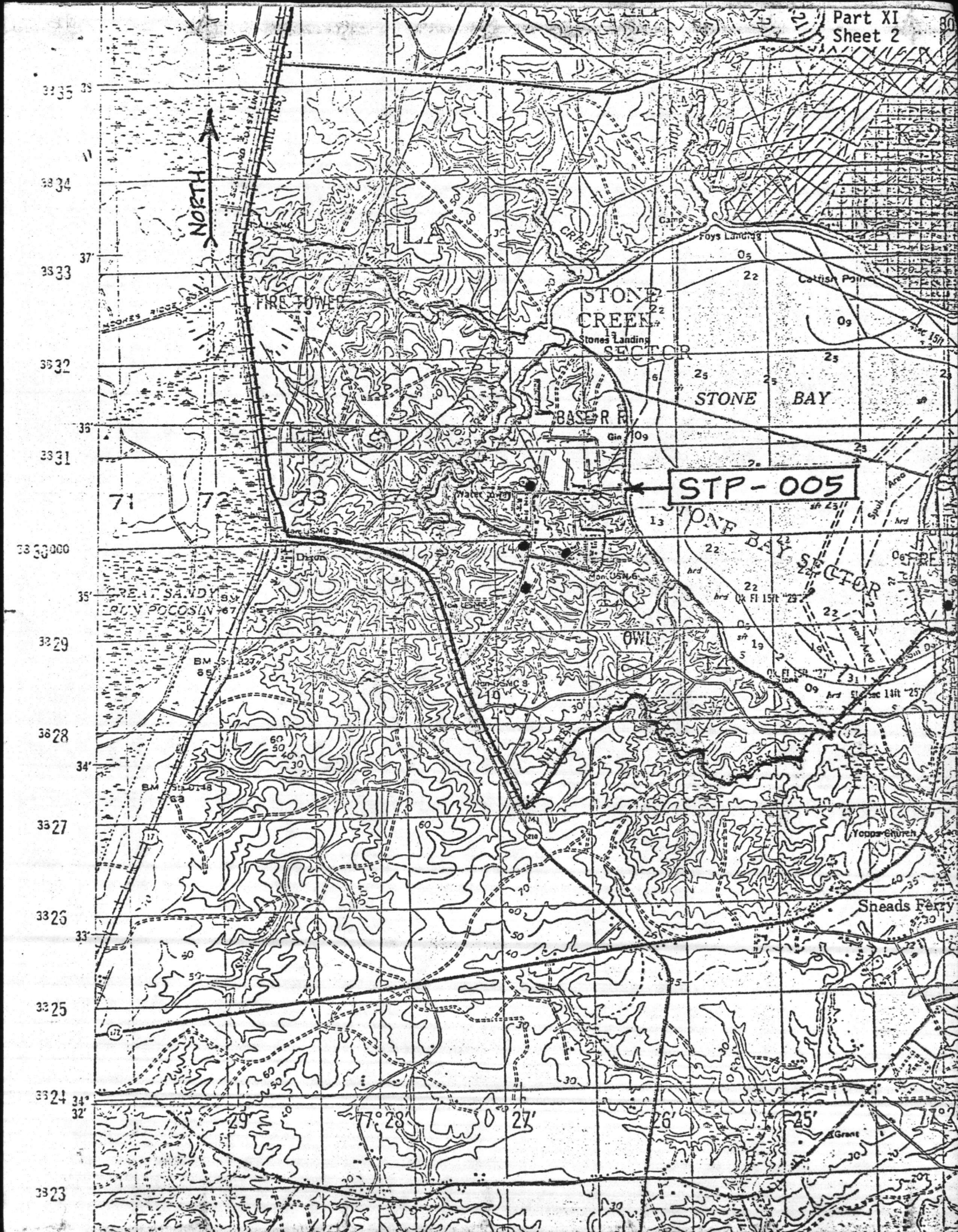
REVISED PRINT
Destroy all previous prints of this number.
Roberts Filter Mfg. Co.
Darby, Pa.
Date 1-19-71

1,333,886


Part
Sheet 1
JACKSONVILLE
NORTH
STP-001
STP-003
Water tank
Georgetown School
Trailer park
Drive in theaters
Beacon
Tanks
Jagged Point
SOUTHWEST CREEK
Discontinued Spoil Area
EAGLE
Verona
FIRE TOWER
CARDINAL
CAMP LEJEUNE
MILITARY RESERVATION
AS + MP WELLS
71
72
73
74
75
76
77
78
79
80

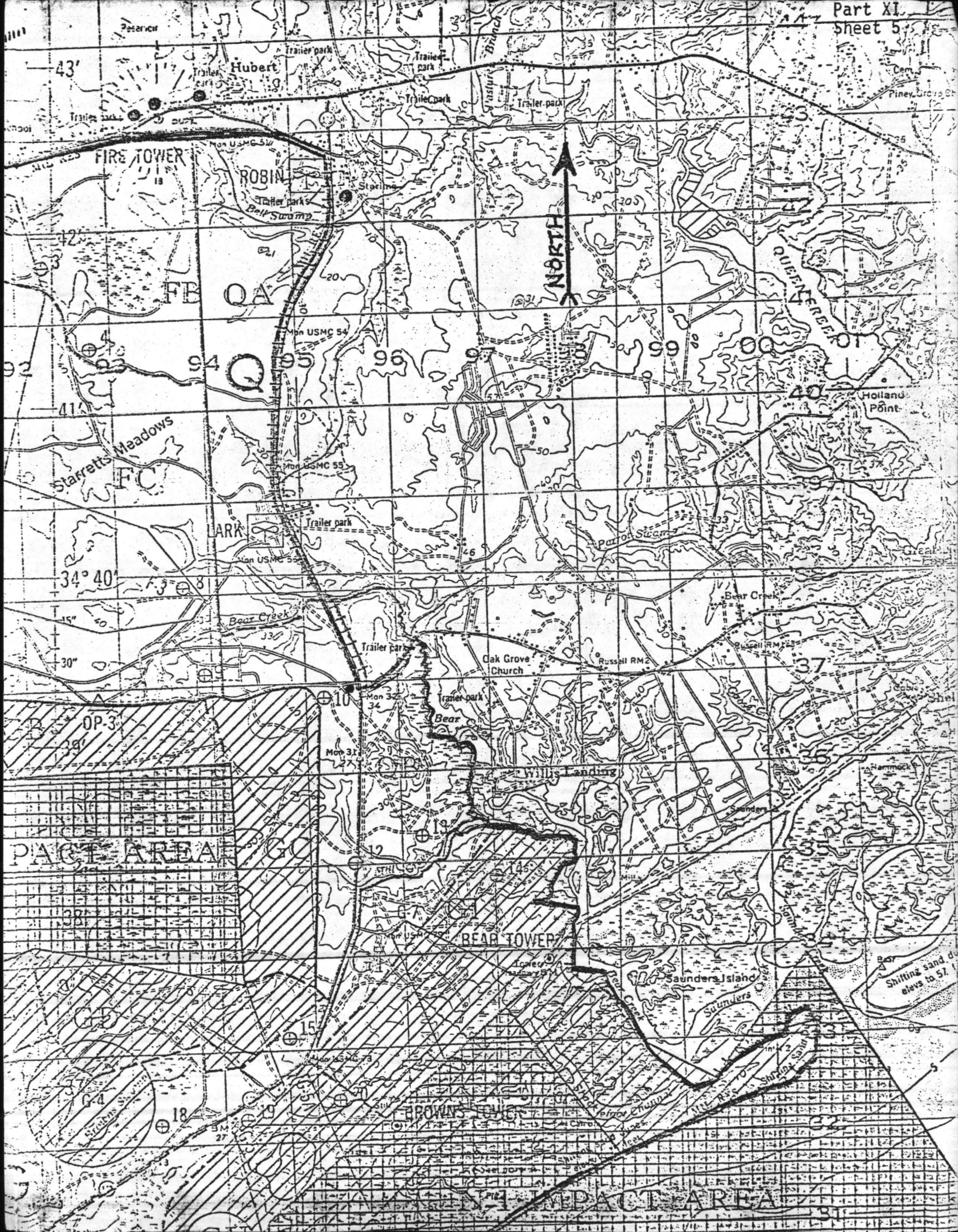

STP-006
NORTH
JAYBIRD
HD
HA
HC
HB
HF
GF
IE
IB
IA
IC
ID
IO
JA
COMBAT TOWN
FIRE TOWER
HAWK
CROW
DODO
DOVE
CAVALRY
ALBATROSS
BLUEBIRD
MARINES ROAD
Mon USMC 90
Duck Creek
Harveys Point
Water tank
Ruins
Barretts Point
Ellis Cove
Wilkins Bluff
Poverty Point
Fulcher Landing
Traps Bay
TRAPS BAY SECTOR
Hall Point
Hatch Rock
Hatch Point
Long Rock
Peru
Swan Point
Roses Point
Chadwick Bay
Big Hammock Point
Cedar Point
Spoil Area
ONSLOW SOUTH TOWER
NEW RIVER INLET
E-1 RANGE
RANGE
ONSLOW BAY
84
85
86
87
88
89
90
26
25
24
23
22
18'
17'
19'
22'
23'

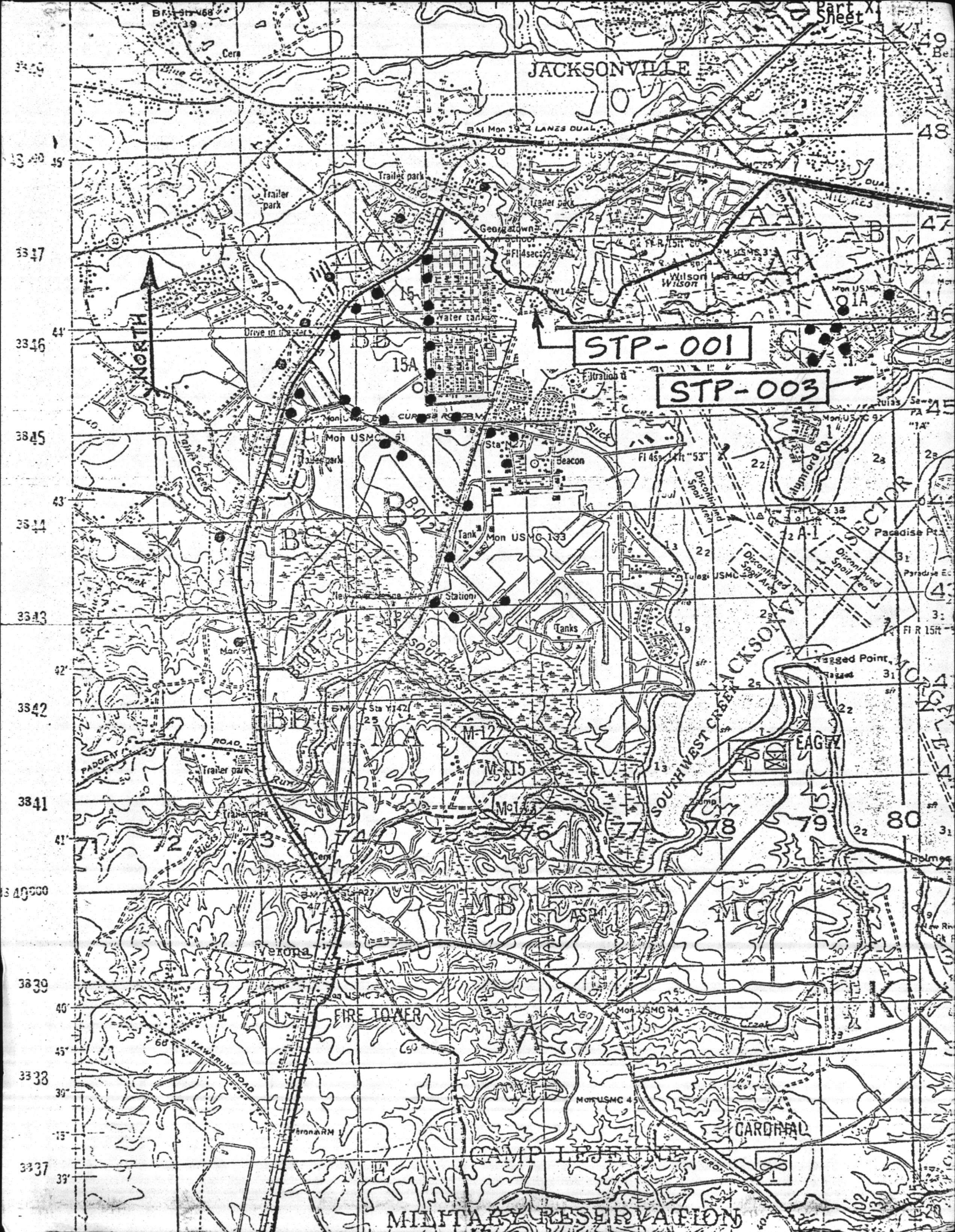

Sheet A
632
640
WELLS
NORTH
JAYBIRD
COMBAT TOWN
FIRE TOWER
HAWK
DODO
DOVE
Mon USMC 90
CHB
WELLS
CANARY
ALBATROSS
Duck Creek
STP - 006
Harveys Point
Water tank
Ruins
Barretts Point
Traps Bay
Wilkins Bluff
Poverty Point
Fulcher Landing
TRAPS BAY SECTOR
Hall Point
Subm Pile
Hatch Rock
Hatch Point
Long Rock
Cedar Point
Spoil Area
Peru
Swan Point
Roses Point
Chadwick Bay
NEW RIVER
INLET
ONSLOW SOUTH
TOWER
E.I RANGE
MARINES ROAD
84
85
86
87
88
89
90

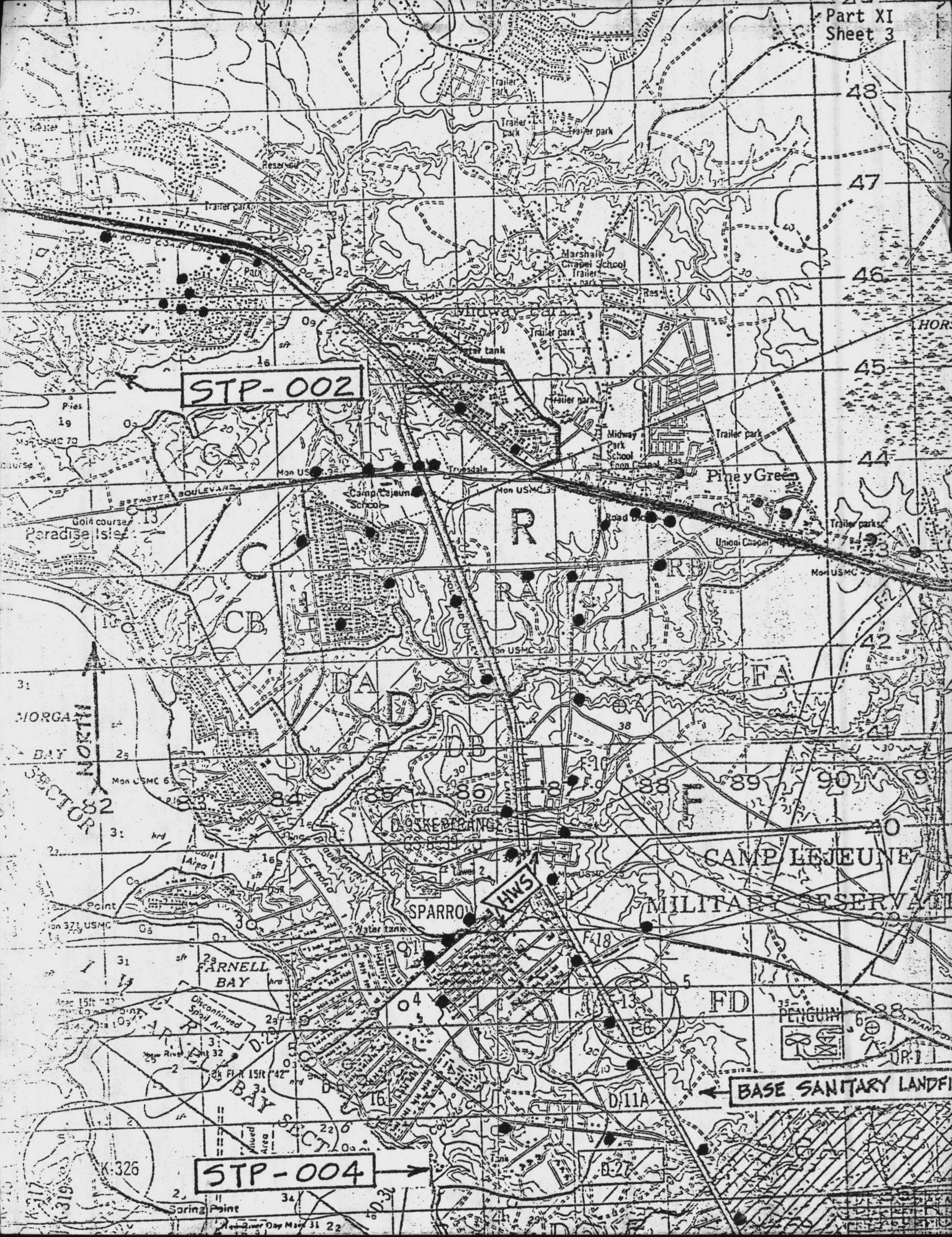

North
STP - 005
STONE CREEK
Stones Landing
SECTOR
STONE BAY
BASER R
FIRE TOWER
Foys Landing
Camp
Catfish Point
ONE BAY SECTOR
Dixon
Yopps Church
Sneads Ferry
Grant
77° 28'
27'
26'
25'
77° 2
34° 32'
71
72
73

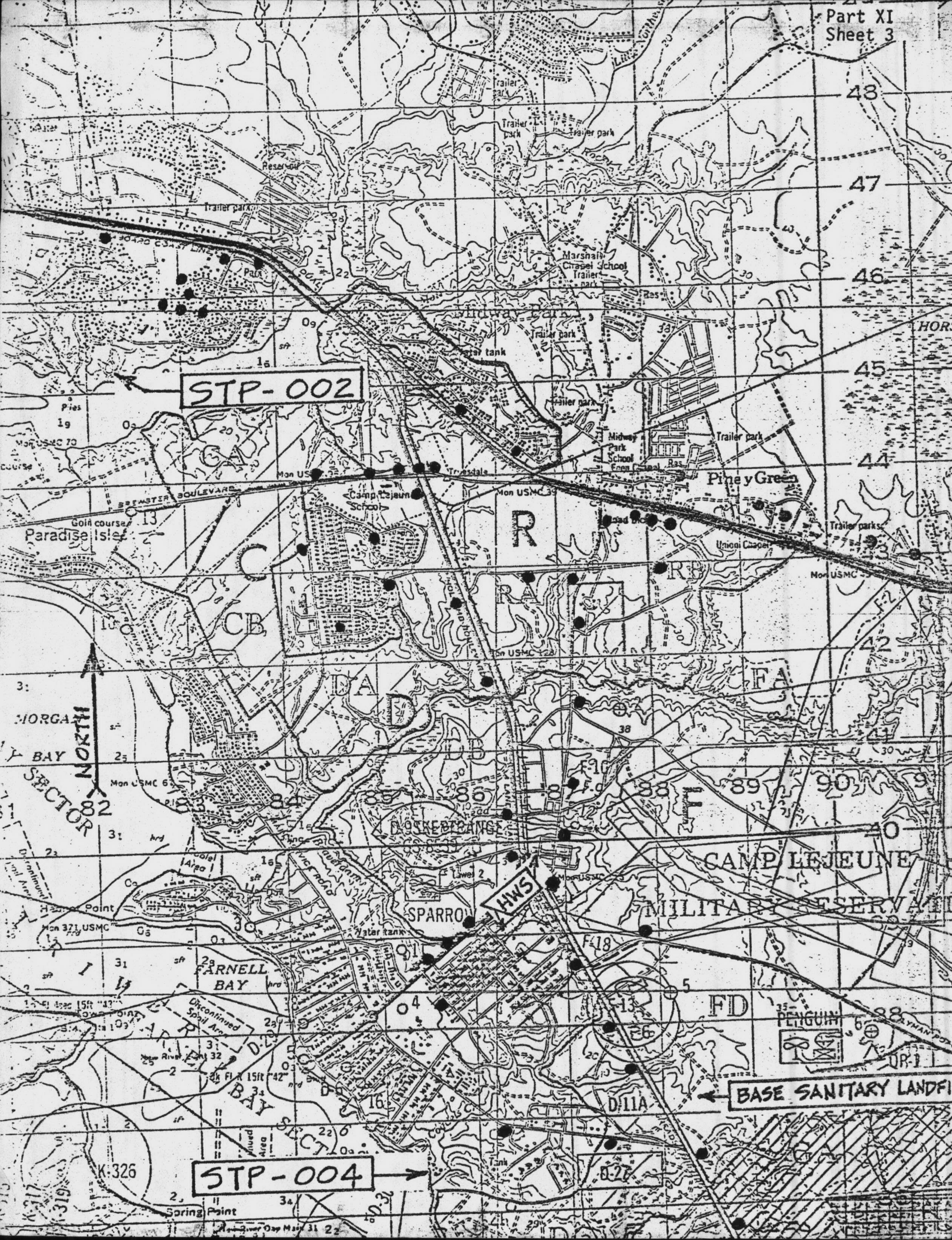

NORTH
STP-005
FIRE TOWER
STONE CREEK SECTOR
Stones Landing
STONE BAY
STONE BAY SECTOR
Foys Landing
Catfish Point
BASE R R
Water Tank
Dixon
GREAT SANDY RUN POCOSIN
OWL
Sneads Ferry
Youps Church
71
72
73
77°28'
27'
26'
25'
29'
34° 32'
33'
34'
35'
36'
37'
K-2


Hubert
FIRE TOWER
ROBIN
Bell Swamp
NORTH
QUEENSBERRY
Holland Point
Starretts Meadows
Bear Creek
Oak Grove Church
Willis Landing
Saunders Island
BEAR TOWER
BROWNS POINT
IMPACT AREA
Trailer park
Mon USMC 54
Mon USMC 55
Mon USMC 73
OP-3
Shifting sand elevs to 57


Part XI
Sheet 5
Hubert
Trailer park
FIRE TOWER
ROBIN
Bell Swamp
NORTH
Mon USMC 54
Mon USMC 55
Starretts Meadows
Holland Point
Bear Creek
Oak Grove Church
Willis Landing
Saunders
Saunders Island
Shifting sand
BEAR TOWER
BROWNS TOWER
IMPACT AREA
OP-3
Mon 31
Mon 32
34


Part X
Sheet 1
JACKSONVILLE
NORTH
STP-001
STP-003
Georgetown School
Water tank
Drive in theater
Trailer park
Beacon
Tank
Mon USMC 133
Tanks
Tulagi USMC
Wilson Bay
Discontinued Spoil Area
Paradise Pt
Jagged Point
SOUTHWEST CREEK
SOUTHWEST
EAGLE
Mumford Pt
Verona
FIRE TOWER
MAWSRUM ROAD
PADGETT ROAD
CARDINAL
CAMP LEJEUNE
MILITARY RESERVATION
71
72
73
74
76
77
78
79
80


STP-002
STP-004
HWS
BASE SANITARY LANDFI
Midway Park
Piney Green
Paradise Isle
Camp Lejeune School
Marshall Chapel School
Midway Park School
Trailer park
Water tank
Truesdale
BREWSTER BOULEVARD
NORTH
MORGAN BAY
FARNELL BAY
CAMP LEJEUNE
MILITARY RESERVATI
SPARROW
PENGUIN
Spring Point
48
47
46
45
44
42
41
40
82
83
84
85
86
87
88
89
90
C
CA
CB
R
RA
RB
D
DA
DB
F
FA
FD
D-11A
D-27
F-18
F-13


STP-002
STP-004
BASE SANITARY LANDFI
NORTH
Midway Park
Piney Green
Paradise Isles
Camp Lejeune School
Marshall Chapel School
Trailer park
Reservoir
BREWSTER BOULEVARD
MORGAN BAY
FARNELL BAY
SPARROW
HWS
CAMP LEJEUNE
PENGUIN
Spring Point
Water tank
Union Chapel
Trailer parks
D-11A
F-18
F-13
FD
FA
CB
CA
DA
DB
RA
RB

Hadnot Point, bldg. 20 to Midway Park Power Plant (IBM)

Circuit # 2

Midway Park Elevated Tank to bldg. 742 Circuit #24

Onslow Beach Elevated Tank, SBA108 to bldg. BA138

Circuit # 40

Rifle Range Metephone Circuit # 61 Tel. 5-7373

Misc. Circuit 92 & 93 Simplex ~~Bristol~~ Pump Control System

UTILITIES DIVISION

WATER TREATMENT BRANCH

1 - Quarterman, Water Plant Operator	Mr. Barker
1 - Leadingman, Water Plant Operator	Mr. Chadwick
1 - Mechanic -	Mr. Witherow
19 - Water Plant Operator	
4 - Helper, Water Plant Operators	
3 - Trainees, Water Plant Operators	
29 - Total	

The Water Treatment System consists of eight (8) separate systems. These systems are located as follows:

1. Hadnot Point, Bldg. #20
Type of treatment: Chemical Hydrated Lime, Chlorination and filtration for hardness and iron removal. Rated capacity 5,000,000m.g.d. Average daily demand: 4,800,000m.g.d. Raw water capacity: 7,000,000 m.g.d. Wells: 34.
This plant spplies the Hadnot Point Area, Naval Hospital, Paradise Point, Capehart Housing, Midway Park and Camp Schools.

2. Tarawa Terrace: Plant located at TT-38
Type of treatment: Chemical hydrated lime,chlorination and filtration for hardness and iron removal. Rated capacity: 1,000,000 m.g.d. Average daily demand: 850,000 gallons. Raw water capacity: 2,000,000 m.g.d. Wells: 9

3. Montford Point - Plant located at M-178
Type of treatment: Zeolite softening and chlorination for hardness and iron removal. Rated capacity: 750,000 g.p.d. Average daily demand: 500,000 gallons. Raw water capacity: 800,000 g.p.d. Wells: 7. This plant supplies Montford Point Area and Camp Know Trailer Park.

4. Camp Geiger: Plants located at Bldgs. TC-501 and TC-508.
Type of treatment: Zeolite softening and chlorination for hardness and iron removal. Rated capacity: 1,500,000 g.p.d. Average daily demand: 850,000 gallons. Raw Water capacity: 2,000,000 g.p.d. Wells: 12

5. Onslow Beach: Plant located at Bldg. BA-138
Type of treatment : Zeolite softening and filtration and chlorination for hardness and iron removal. Rated capacity: 250,000 g.p.d. Average daily demand: 100,000 gallons. Raw water capacity: 300,000 g.p.d. Wells: 2

6. Rifle Range: No Plant
Type of treatment: Chlorination only. Average daily demand: 290,000 g.p.d. Raw Water capacity: 700,000 g.p.d. Wells: 3

7. Courthouse Bay - No Plant
Type: Chlorination and phosphate. Each MOQ has a home type zeolite softener and filter. Average daily demand: 275,000 gallons. Raw water capacity: 400,000 g.p.d. Wells: 2.

8. Amphibian Base: No Plant A-5
Type of treatment: Chlorination only. Average daily demand: 20,000 gallons Raw water capacity: 200,000 g.p.d. Wells: 1

In addition to the operation of the water supply systems, Water Treatment Personnel also operate chlorinators for the chlorination of the water at Engineers ~~Stockade~~ STOCKADE

(Cont'd)

Triangle Outpost, Bldg. SH8, Varona Loop, and Demolition Range at Courtho se Bay. Water Treatment Personnel operate the facilities for treatment of the water in four (4) recreation and training swimming pools.

Water Treatment Facilities

The Water Treatment System consists of eight (8) separate systems.
These water supply and treatment systems are located as follows:

1. Hadnot Point System with plant located at bldg. #20. This plant has a normal rated capacity of 5,000,000 gallons per day. This plant is supplied with raw water well fields located throughout the Hadnot Point and Midway Park areas consisting of 34 wells with a capacity of approximately 7,500,000 GAL. The raw water is pumped from the well fields into the plant where it is treated to remove part of the hardness and iron, filtered and chlorinated, and is stored in reservoirs and pumped into the distribution system to supply the demand for potable water. This distribution supplies the Hadnot Point area, Naval Hospital, Paradise Point, Capehart Housing, Midway Park and Camp Schools.
   The Hadnot Point System has three (3) reservoirs and five (5) elevated tanks with a combined storage capacity of 5,000,000 gallons
   Average daily demand 4,800,000 GAL per day.

2. Tarawa Terrace: Plant located at bldg. # TT38. Rated capacity-1,000,000 gallons per day.
   Raw water supply- five (5) wells, approximate capacity of 600,000 gallons per day.
   Four (4) new wells being drilled
   Treatment- Chemical Hydrated lime, chlorination and filtration for hardness and iron removal.
   Average demand- 600,000 GAL per day.

3. Montford Point- Plant located at bldg. M-178
   Rated capacity- 750,000 gallons per day.
   Raw water supply- Seven (7) wells- capacity- 800,000 GAL per day.
   Treatment- Zeolite Process and chlorination for hardness and iron removal.
   Storage- One (1) clear water reservoir and one (1) elevated tank, combined capacity- 550,000 gallons.
   This plant supplies Montford Point area, Camp Knox trailer Park and helps to boost the Tarawa system at present.
   Average demand-550,000 GAL per day.

4. Camp Geiger- Plant located at bldgs. TC-501 & TC-508
   Rated capacity- 1,500,000 gallons per day.
   Raw water supply- Twelve (12) wells- capacity- 2,000,000 gallons per day.
   Treatment- Zeolite process and chlorination for hardness and iron removal.
   Storage- Three (3) reservoirs and two (2) elevated tanks- combined cap.-1,300,000 gallons.
   Average demand- 925,000 gallons per day.
   This plant supplies Camp Geiger area and Geiger Trailer Park.

5. Onslow Beach- Plant located at bldg. BA-138.
   Rated capacity- 250,000 gallons per day
   Raw water supply- Two wells- capacity - 350,000 gallons per day.
   Treatment- Zeolite process with filtration and chlorination for hardness and iron remaval.
   Storage- one reservoir and one elevated tank- combined capacity- 350,000 gallons.
   Average demand- 127,000 gallons per day

6. Rifle Range- No plant
Supply- Three (3) raw water wells- combined capacity- 700,000 gallons per day and pumps direct into distribution system
Treatment- Chlorination only in distribution system. Each M.O.Q. and mess hall has a small softener to soften part of the water used.
Storage- One elevated tank- capacity- 100,000 gallons.
Average demand- 290,000 Gal per day.

7. Courthouse Bay- No Plant
Supply- Two (2) raw water wells- combined capacity- 432,000 gallons per day, and pumps direct into the system.
Treatment- Chlorination only in distribution system. Each M.O.Q. has a home type softener and filter.
Storage- One elevated tank- capacity- 100,000 gallons.
Average demand- 275,000 gallons per day.

8. Amphibian Base Boat Basin- No plant.
Supply- One well- capacity- 250,000 gallons per day
Treatment- Chlorination only.
Storage- Pressure tank- capacity- 6000 gallons.
Average demand- 20,000 gallons per day.

In addition to operation of the water supply systems, Water Treatment Personnel, also operate chlorinators for the chlorination of the water at Engineers Stockade, Triangle Outpost and Bldg. SH-8.
Water Treatment Personnel operate the facilities for treatment of the water in four (4) recreation and training swimming pools and three (3) booster pumping stations on the Base.
Water Treatment has a well equiped Laboratory, with a qualified chemist, who performs necessary chemical and physical analysis on raw and treated water, collects and anaalyses samples of water from rivers, sewage plants, boiler plants, and all water distribution systems.

Water Treatment Personnel:

1	Quarterman
1	Leadingman
1	Chemist
1	Mechanic
1	Pumping Plant Operator
18	Water Plant Operators
5	Water Plant Helpers
28	

RETURN TO
P.H BARKER

6 July 1964

The Water Treatment System consists of eight (8) separate systems. These systems are located as follows:

1. Hadnot Point, Bldg. #20.
   Type of treatment: Chemical Hydrated Lime, Chlorination and filtration for hardness and iron removal
   Rated capacity: 5,000,000 m.g.d.
   Average daily demand: 4,800,000 m.g.d.
   Raw water capacity: 7,000,000 m.g.d.
   Wells: 34
   This plant supplies the Hadnot Point Area, Naval Hospital, Paradise Point, Capehart Housing, Midway Park and Camp Schools.

2. Tarawa Terrace: Plant located at TT 38.
   Type of treatment: Chemical hydrated lime, chlorination and filtration for hardness and iron removal.
   Rated capacity: 1,000,000 m.g.d.
   Average daily demand: 850,000 gallons
   Raw water capacity: 2,000,000 m.g.d.
   Wells: 9

3. Montford Point: Plant located at M-178
   Type of treatment: Zeolite softening and chlorination for hardness and iron removal.
   Rated capacity: 750,000 g.p.d.
   Average daily demand: 500,000 gallons
   Raw water capacity: 800,000 g.p.d.
   Wells: 7
   This plant supplies Montford Point Area and Camp Knox Trailer Park.

4. Camp Geiger: Plants located at bldgs. TC501 and TC508
   Type of Treatment: Zeolite softening and chlorination for hardness and iron removal.
   Rated capacity: 1,500,000 g.p.d.
   Average daily demand: 850,000 gallons
   Raw Water capacity: 2,000,000 g.p.d.
   Wells: 12

5. Onslow Beach: Plant located at bldg. BA138
   Type of treatment: Zeolite softening and filtration and chlorination for hardness and iron removal.
   Rated capacity: 250,000 g.p.d.
   Average daily demand: 100,000 gallons
   Raw water capacity: 300,000 g.p.d.
   Wells: 2

6. Rifle Range: ~~No~~ plant.
   Type of treatment: ~~Chlorination only~~ ZEOLITE TREAT
   Rated capacity: 500,000
   Average daily demand: 290,000 g.p.d.
   Raw water capacity: 700,000 g.p.d
   Wells: 3

Plants Continued:

7. Courthouse Bay: No Plant
   Type: Chlorination and phosphate. Each MOQ has a home type zeolite softener and filter.
   Average daily demand: 275,000 gallons
   Raw water capacity: 400,000 g.p.d.
   Wells: 2

8. Amphibian Base: No plant
   Type of treatment: Chlorination only
   Average daily demand: 20,000 gallons
   Raw water capacity: 250,000 g.p.d.
   Wells: 1

In addition to the operation of the water supply systems, Water Treatment Personnel also operate chlorinators for the chlrination of the water at Engineers Stockade, Triangle Outpost, Bldg. SH8, Varona Loop, and Demilition Range at Courthouse Bay. Water Treatment Personnel operate the facilities for treatment of the water in four (4) recreation and ~~training~~ training swimming pools.

25 August 1972

Plant - M-178

Capac ity of Plant	750,000 G.P.D.
Capacity of Wells	800,000 "
Normal Demand	600,000 "
Peak Demand	800,000 "
Storage Ground Reservoir Treat.	400,000 Gals.
Storage Elevated Tank	150,000 "

Plant - CG-508

Capacity of Plant	1,500,000 G.P.D.
Capacity of Wells	1,800,000 "
Normal Demand	550,000 "
Peak Demand	850,000 "
Storage Ground Reservoir Treat.	850,000 Gals.
Storage Ground Reservoir Raw	250,000 "
Storage Elevated Tanks	200,000 "

Plant - TT-38

Capacity of Plant	1,000,000 G.P.D.
Capacity of Wells	1,200,000 "
Normal Demand	850,000 "
Peak Demand	1,200,000 "
Storage Ground Reservoir	750,000 Gals.
Storage Elevated Tank	250,000 "

Plant - HB-670

Capacity of Plant	2,000,000 G.P.D.
Capacity of Wells	2,300,000 "
Normal Demand	950,000 "
Peak Demand	1,500,000 "
Storage Ground Reservoir	1,000,000 Gals.
Storage Elevated Tank	700,000 "

July 28, 1966

We feel that the minimum requirements needed by Water Treatment Branch for for chemical and Bacteriological analysis are as listed below:

1. Water distribution system

A. Bacteriological analysis weekly--more often if conditions warrant, from the systems listed.

a. Hadnot Point system	5	samples
b. Tarawa Terrace "	2	"
c. Montford Point "	1	"
d. Knox Trailer Pk."	1	"
e. Camp Geiger "	1	"
f. Camp Geiger Tr. Pk.	1	"
g. Rifle Range system	2	"
h. Amphibian Base "	1	"
i. Courthouse Bay "	2	"
J Demolition Range"	1	"
K. Onslow Beach "	1	"
l. Engineer Stockade	1	"
m. Triangle Outpost	1	"
n. Building SH-8	1	"
o. Each Swimming Pool	4	"
p. Vanona Loop	1	"
q. Race Track	1	"

B. Chemical Analysis--each week

a. All systems having plants	6	"
b. Courthouse Bay System	1	"
c. Observation wells	5	" (Each 6 months)

C. Run special analysis, chemical or bacterioligical, as the need may arise.

D. Chemical analysis annually
a. All raw water supply wells. (samples will be collected by water treatment personnel)

for chemical and bacteriological analysis are as listed below:

1. Water distribution system

A. Bacteriological analysis weekly--more often if conditions warrant, from the system listed.

a. Badger Point system----------5 samples
b. Tarpon Terrace " ----------2 "
c. Montford Point " ----------1 "
d. Knox Trailer Pk. " ----------1 "
e. Camp Oetker " ----------1 "
f. Camp Oetker Tr. Pk.----------1 "
g. White Horse system ----------2 "
h. Archibald Base " ----------1 "
i. Courtbelow Bay " ----------3 "
j. ----------1 "
k. Marlow Beach " ----------2 "
l. M Indoor Complex ----------1 "
m. Train Ie Outpost ----------1 "
n. Bulloh Pole ----------1 "
o. Beach Swimming Pool ----------6 "
p. Tennis Camp ----------1 "
q. Range Track ----------1 "

B. Chemical Analysis--each week

a. All systems having chlorine----------6 "
b. Curtisons Bay system----------1 "
c. Observation well----------(Each 6 months)

2. Sewage Disposal Plants, chemical or bacteriological, as the need may arise.

A. Chemical analysis monthly

a. All raw water supply wells. (Samples will be collected by water laboratory personnel)

Wells Hadnot Point

601	Elect. motor out aux engine	638	out new pump on order aux engine
602		639	aux engine
603	aux engine	640	aux engine
606		641	
608	aux engine	642	
609		651	aux engine
610	aux engine	652	
611		M-1	
612	~~Elect motor out~~ to be pulled	M-2	aux engine
613	aux engine		
614			
615			
616			
619	oil seal gone caved		
620	back pressure valve need maint		
621	aux engine out		
625 ~~M-1~~	aux engine		
626 ~~M-2~~	aux engine		
627	out for Repairs aux engine		
632			
633	out new pump on order		
634	out new pump on order		
635			
636			
639			

Wells 670
643
644
645
646
647
648
649
650

Wells Tarawa Terrace
#111
TT 52
T.T. 53 out engine
TT 54 out engine
TT 67 pulled, M+R. 7-9-75
TT 30
T.T. 31 pulled 7-10-75 waiting for parts

Wells	Montford Point
M-142	
M-243	
M-244	to be replaced Caved
M-627	" " " " " " out engine
M-628	
M-168	out engine
M-197	out engine

Wells	Camp Geiger
A-104	no pump to high Chlorides
B-100	
D-502	out engine
E-600	
F-700	
G-901	out for repairs
H-201	
I-202	out order no water in well
J-504	out engine
K-604	
L-1000	
M-1001	out engine