

Hadnot Point Water Treatment & Supply System

Facility Name	Bldg. #	Notes
1 Hadnot Point Water Treatment Plant	#20	
2 Utilities Laboratory	#762	
3 Chemical Storage	#42	
4 Raw Water Booster station	#38 - Parade field Station	
5 Midway Park Booster Station	#742	
6 Clear water storage reservoir	#S-735	
7 " " " "	#S-763	
8 Raw water supply well # 1	#601	
9 " " " "	#602	
10 " " " "	#603	
11 " " " "	#604	(Not in operation)
12 " " " "	#605	
13 " " " "	#606	
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20 " " " "	#614	
21a " " " "	#615	
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23 " " " "	#617	
24 " " " "	#618	NOT IN OPER.
25 " " " "	#619	
26 " " " "	#620	
27 " " " "	#621	
28 " " " "	#624	
29 " " " "	#625	
30 " " " "	#626	
31 " " " "	#627	
32 " " " "	#628	NOT IN OPER
33 " " " "	#629	" " "
34 " " " "	#630	(Not in operation)
35 " " " "	#631	
36 " " " "	#632	
37 " " " "	#633	
38 " " " "	#634	
39 " " " "	#635	
40 " " " "	#636	
41 " " " "	#LCH-1	
42 " " " "	#LCH-2	
43 " " " "	#R	NOT IN OPER
44 Elevated water tank	#S-5	NEAR BRIG
45 " " " "	#S-1000	IND. AREA
46 " " " "	#S-29	NEAR HOST. HOUSE
47 " " " "	#S-2323	" GOLF COURSE
48 " " " "	#S-4004	MIDWAY PARK
49 " " " "	#S-830	CAPEHEART
50 Swimming pool filter room	#236	
51 " " " "	#540	
52 " " " "	#2615	

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Camp Geiger Water Treatment & Supply System

1. Camp Geiger Water Treatment Plant		Bldg. #TC-508
2. Pumping Plant		" #TC-501
3. Raw water reservoir		" #STC-503
4. Clear water reservoir		" #STC500
5. " " "		" #STC-509
6. Elevated water tank		" #STC-606
7. " " "		" #STC-1070
8. Salt storage tank & pump		" #STC-619
9. Raw water supply well	#A	" #TC-104
10. " " " "	##B	# #TC-100
11. " " " "	#C (Not in Operation)	" #TC-300
12. " " " "	#D	" #TC-502
13. " " " "	#E	" #TC-600
14. " " " "	#F	2 #TC-700
15. " " " "	#G	" #TC-901
16. " " " "	#H	" #TC-201
17. " " " "	#I	" #TE-202
18. " " " "	#J	" #TE-504
19. " " " "	#K	" #TC-604
20. " " " "	#L	" #TC-1000
21. " " " "	#M	" #TC-1001

Montford Point Water Treatment and Supply System

1. Montford Point water treatment plant		Bldg. #M-178
2. Clear water reservoir		" #SM-179
3. Elevated water tank		" #SM-624
4. Swimming pool filter room		" #M-139
5. Raw water supply well	Z	" #M-141
6. " " " "	Z-1	" #M-142
7. " " " "	Z-2	" #M-243
8. " " " "	Z-3	" #M-244
9. 2" 2 2 2	Z-4	" #M-627
10. " " " "	Z-5	" #M-628 628
11. " " " "	Z-6	" #M-168
12. " " " "	WC-1	" #M-143

NOT IN OPER.

Varona Area Systems

1. Varona Loop Well - PUMP HOUSE-SVK 110 PUMP-SVK-108
2. " Race Course - ? TANK-SVK-109-3000 GALS. ELEVATED

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Tarawa Terrace Water Treatment Plant & Supply System

1. Tarawa Terrace Water Treatment Plant		Bldg. #TT-38
2. Pumping plant		" #TT-39A
3. Clear water reservoir		" #STT-39
4. Elevated water tank		" #STT-40
5. Raw water supply well	#1	" #TT-26
6. " " " "	#2 (Not in operation)	" #TT-27
7. " " " "	#3 NOT IN OPERATION	" #TT-28
8. " " " "	#4 (not in operation)	" #TT-29
9. " " " "	#5 (not in operation)	" #TT- 30 45
10. " " " "	#6 (not in operation)	" #TT- 32 30
11. " " " "	#7 (not in operation)	" #TT- 31 31
12. " " " "	#8 NOT IN OPERATION	" #TT-55
13. " " " "	#9	" #TT-52
14. " " " "	#10	" #TT-53
15. " " " "	#11	" #TT-54
16. Camp Knox Booster Station		" #D-39

Rifle Range Water Treatment Plant & Supply System

1. Rifle Range Water Treatment Plant		Bldg. #RR-85
2. Clear water reservoir		" #SRR-86
3. Elevated water tank		" #SRR-144
4. Raw water supply well	S	" #RR-45
5. " " " "	T (not in operation)	" #RR-46
6. " " " "	S-1	" #RR-47
7. " " " "	T-1	" #RR-227

Courthouse Bay Water Supply System

1. Elevated water tank		" #SBB-25
2. Raw water supply well	V	" #BB-144
3. " " " "	W	" #BB-43
4. " " " "	U	" #A-5
5. " " " "	X	" #BB-97
6. Water pressure tank bldg.		" #A-4

Onslow Beach Water Treatment Plant & Supply System

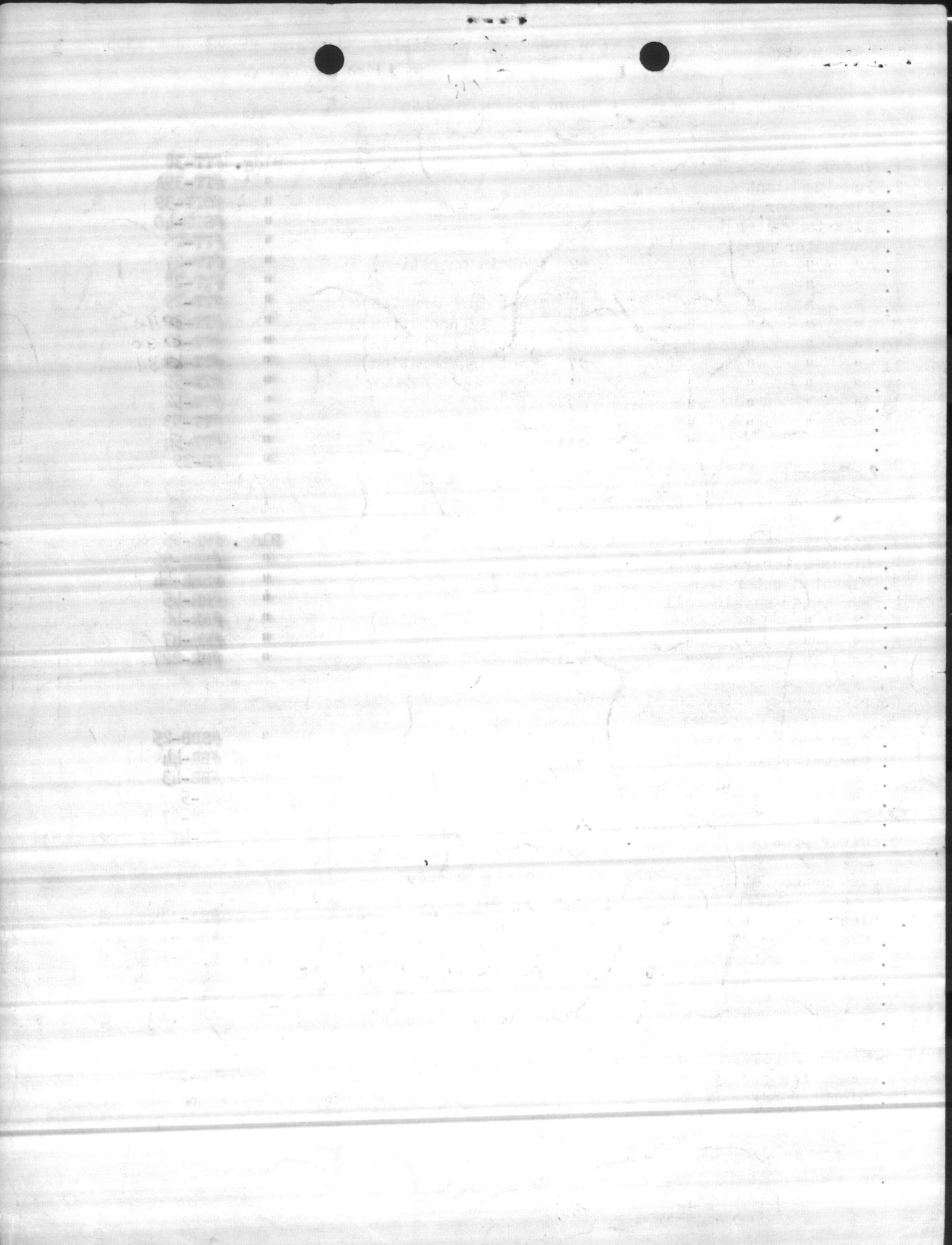
1. Onslow Beach Water Treatment Plant		" #BA-138
2. Clear water reservoir		" #SBA-139
3. Elevated water tank		" #SBA-108
4. Salt storage tank		" #SBA-140
5. Raw water supply well	22	" #BA-109
6. " " " "	23 NOT IN OPERATION	" #BA-110

Engineers Stockade Water Supply System

1. Raw water supply well		" #ES-109
2. Elevated water tank		" #ESE-119

Triangle Outpost Water Supply System

1. Raw water supply well		" #CR-115
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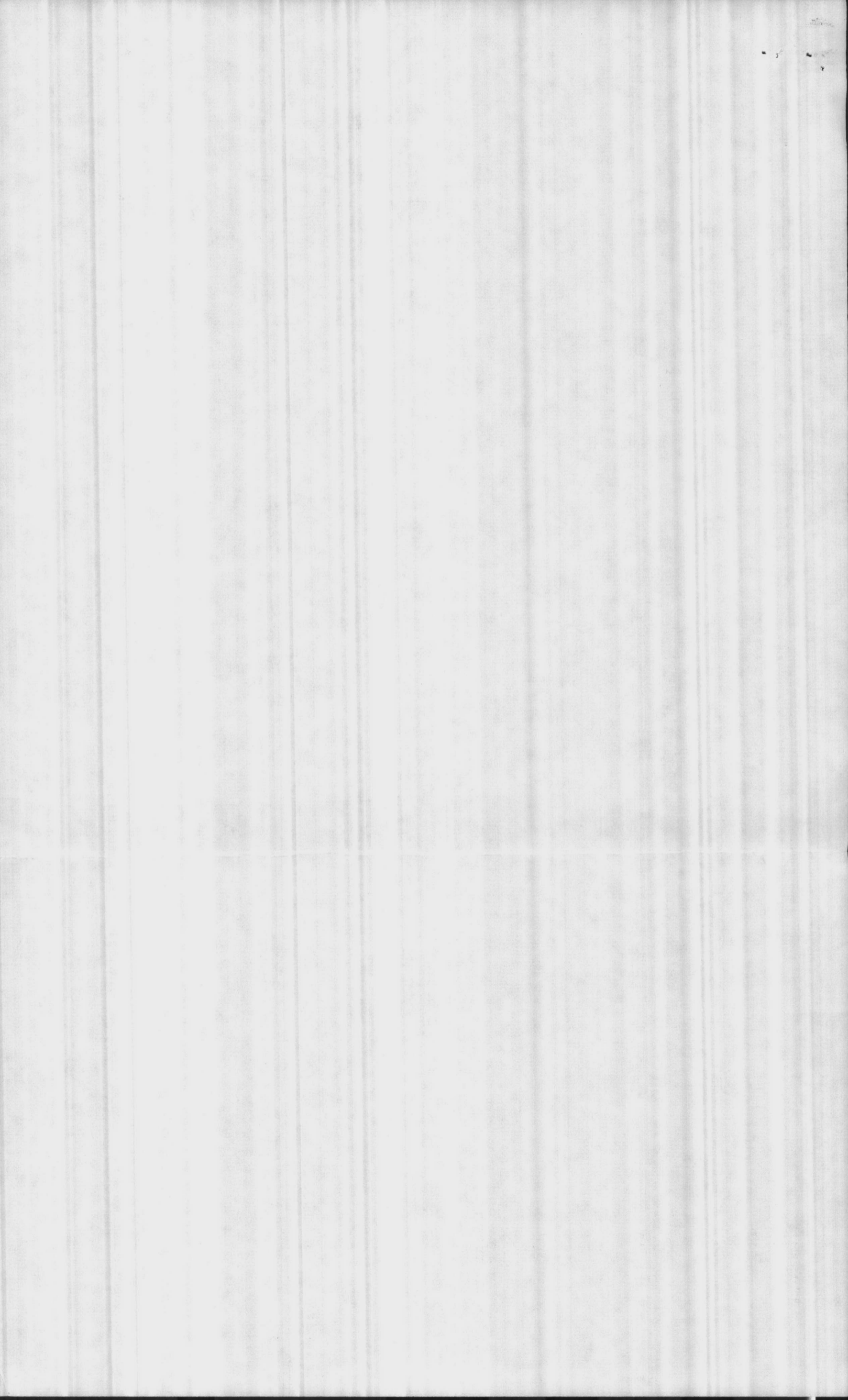


11/4/81

Water Treatment Bldgs

BLDG	BUILDINGS + STRUCTURES WATER TREATMENT		
HP 20	WATER TREATMENT PLANT		
S-735	GROUND STORAGE TANK		500,000 GAL
S-763	"	"	2,000,000 "
S-5	ELEVATED	"	300,000 "
S-29	"	"	300,000 "
S-1000	"	"	300,000 "
SFC-314	"	"	300,000 "
HP-42	WORK SHOP		
HP-762	"	"	
HP-742	BOOSTER PUMP HOUSE		
HP-601	WELL PUMP HOUSE		
HP-602	"	"	"
HP-603	"	"	"
HP-606	"	"	"
HP-608	"	"	"
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HP-611	"	"	"
HP-612	"	"	"
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HP-616	"	"	"
HP-620	"	"	"
HP-621	"	"	"
HP-626	"	"	"
HP-627	"	"	"
HP-630	"	"	STORAGE

HP-632	WELL PUMP HOUSE	
HP-633	" "	
HP-634	" "	
HP-635	" "	
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670	WATER TREATMENT PLANT	
671	GROUND STORAGE TANK	1,000,000 GAL
S-830	ELEVATED	300,000 "
S-2323	" "	200,000 "



S-4004	ELEVATED STORAGE TANK	200,000 GALS
TT 38	WATER TREATMENT PLANT	
STT 39	GROUND STORAGE TANK	750,000 GALS
STT 39A	PUMPING STATION	
STT 40	ELEVATED STORAGE TANK	
TT 26	WELL PUMP HOUSE	
TT 30	" " "	
TT 31	" " "	
TT 52	" " "	
TT 53	" " "	
TT 54	" " "	
TT 67	" " "	
D 39	BOOSTER PUMP	
M-178	WATER TREATMENT PLANT	
SM-179	GROUND STORAGE TANK	400,000 GAL
SM-624	ELEVATED STORAGE TANK	150,000 GAL
M-141	WELL PUMP HOUSE	
M-168	" " "	
M-197	" " "	
M-628	" " "	
M-629	" " "	
M-630	" " "	
AS 110	WATER TREATMENT PLANT	
AS-107	GROUND STORAGE TANK	200,000 GAL
AS-108	" " "	225,000 "
AS-310	ELEVATED STORAGE TANK	300,000 "
AS-4130	" " "	350,000 "
AS-2002	GROUND	" " 300,000 "
AS-2003	BOOSTER PUMPING STATION	
AS-106	WELL PUMP HOUSE	



AS-131	WELL PUMP HOUSE		
AS-203	" " "		
AS-190	" " "		
AS-191	" " "		
AS-4140	" " "		
AS-4150	" " "		
AS-5001	" " "		
AS-5009	" " "		
TC-501	BOOSTER PUMPING STATION		
STC-500	GROUND STORAGE TANK	272,000 GAL	
STC-509	" " "	600,000 "	
STC-606	ELEVATED " "	100,000 "	
STC-1070	" " "	100,000 "	
STC-1252	BOOSTER PUMPING STATION		
TC-100	WELL PUMP HOUSE		
TC-104	" " "		
TC-201	" " "		
TC-502	" " "		
TC-600	" " "		
TC-604	" " "		
TC-700	" " "		
TC-901	" " "		
TC-1000	" " "		
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TC-1251	" " "		
TC-1253	" " "		
TC-1254	" " "		
TC-1255	" " "		
TC-1256	" " "		



RR-85	WATER TREATMENT PLANT	
SRR-86	GROUND STORAGE TANK	350,000 GAL
SRR-114	ELEVATED	100,000 "
RR-115	WELL PUMP HOUSE	
RR-47	"	"
RR-97	"	"
RR-227	"	"
BB, 190	WATER TREATMENT PLANT	
SBB-191	GROUND STORAGE TANK	350,000 GALS
SBB-25	ELEVATED	100,000 "
BB-43	WELL PUMP HOUSE	
BB-44	"	"
BB-220	"	"
BB-221	"	"
BB-97	"	"
A-5	"	"
BA-138	WATER TREATMENT PLANT	
BA-139	GROUND STORAGE TANK	250,000 GAL
BA-108	ELEVATED	100,000 "
BA-164	WELL PUMP HOUSE	
BA-190	"	"
HP 236	SWIMMING POOL	
HP 540	"	"
PP 2615	"	"
M-139	"	"
AS-202	"	"
AS-709	"	"



NATURAL RESOURCES AND ENVIRONMENTAL AFFAIRS DIVISION
Marine Corps Base
Camp Lejeune, North Carolina 28542

83

10-29-82
Date

From:

To:

Subj:

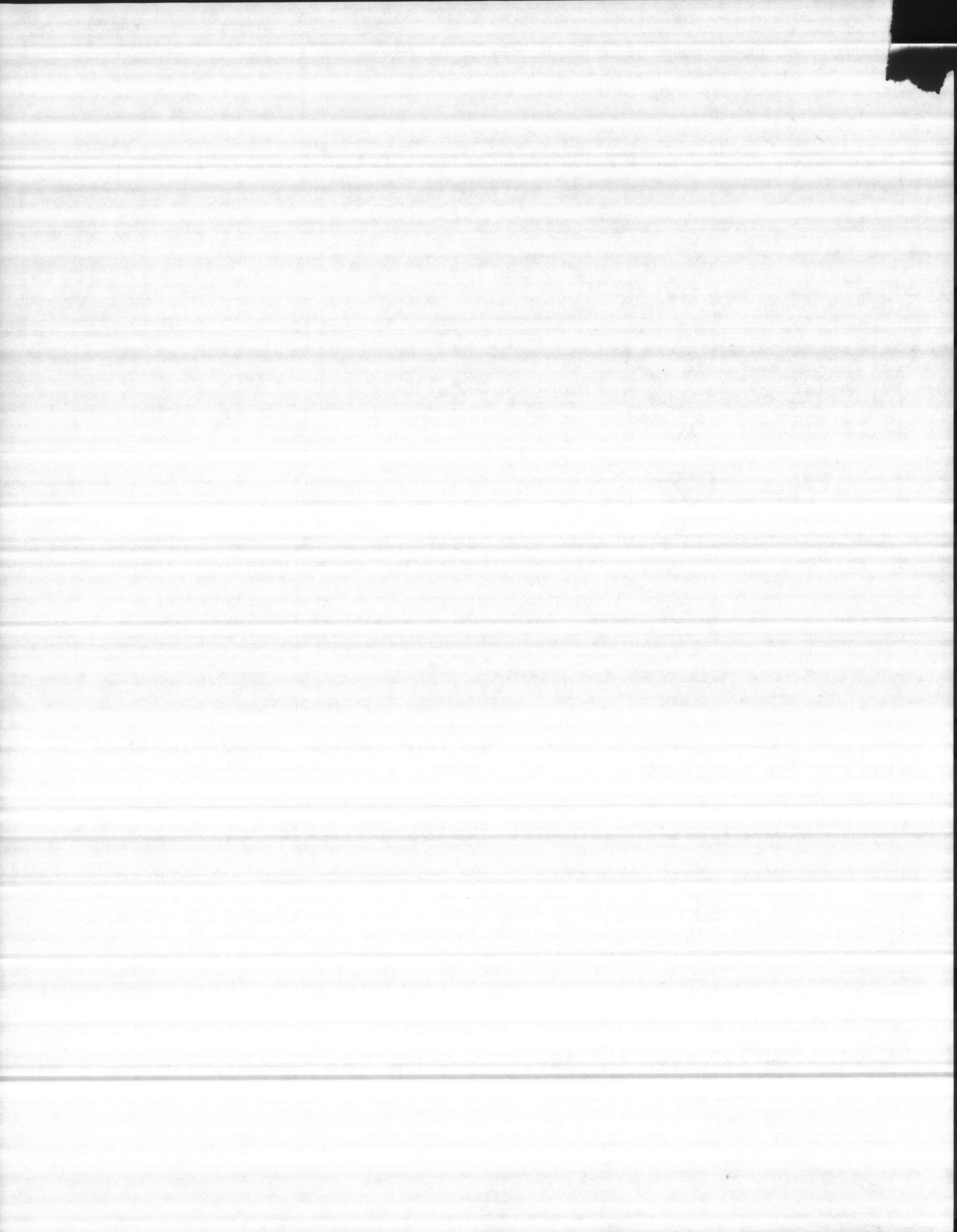
Dir Utilities Branch
Via: Base Maint officer

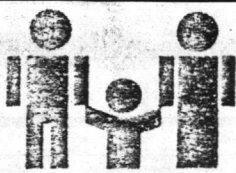
DWR

attached for your info.

This letter requires no change
in current procedures.

filed
Ply ensure NREA is
aware of these ID #'s.
C





5 NREA
OCW 72C

Ronald H. Levine, M.D., M.P.H.
STATE HEALTH DIRECTOR

DIVISION OF HEALTH SERVICES
P.O. Box 2091
Raleigh, N.C. 27602-2091

October 25, 1982

Commanding General
USMC Camp Lejeune
Camp Lejeune, North Carolina 28542

ATTN: R. F. Calta, Lieutenant Colonel
USMC Base Maintenance Officer

Sir:

To conform the potable water treatment facilities of USMC Camp Lejeune to the provisions of the North Carolina Safe Drinking Water Act, the following public water supply I.D. numbers have been assigned.

04-67-041	USMC Hadnot Point
04-67-042	USMC New River Air Station
04-67-043	USMC Holcomb Boulevard
04-67-044	USMC Tarawa Terrace
04-67-045	USMC Camp Johnson
04-67-046	USMC Rifle Range
04-67-047	USMC Courthouse Bay
04-67-048	USMC Onslow Beach

These I.D. numbers should be shown on all reports of chemical analysis and operations from the respective treatment facilities and microbiological analyses from representative points within the respective distribution system.

These should be reported to Mr. John McFadyen in this office monthly.

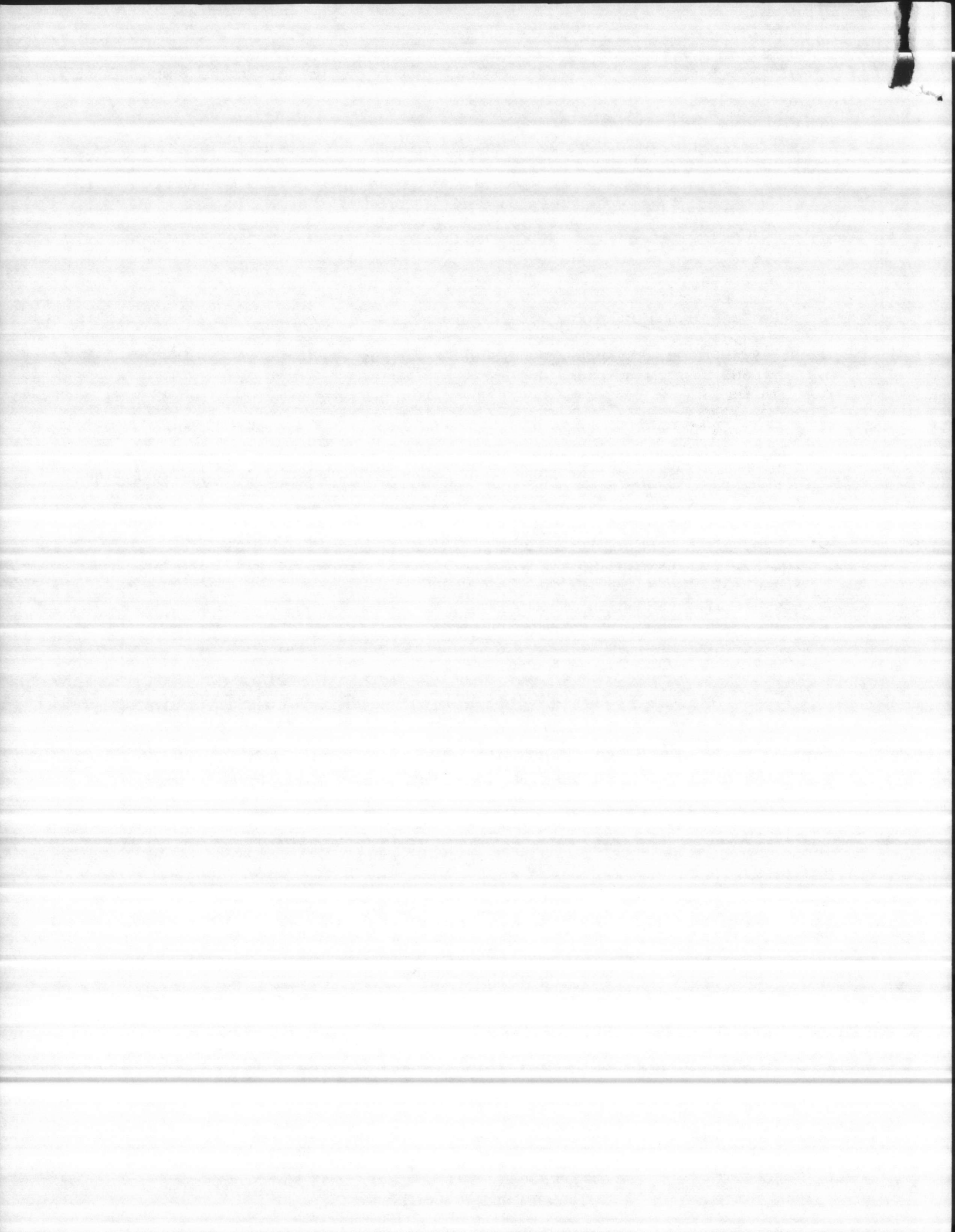
Thank you for your continued cooperation.

Very truly yours,

Charles E. Rundgren, Head
Water Supply Branch
Environmental Health Section

CER:chf

cc: Mr. M. P. Bell



MAIN
11330
10 Dec 84

From: Director, Utilities Branch
To: Commander, Atlantic Division, Naval Facilities Engineering Command,
Norfolk, Virginia 23511 (Attn: Jerry Hardwood, Code 114)

Subj: IDENTIFICATION OF RAW WATER AND OLD ABANDONED WELLS, HOLCOMB BOULEVARD
AND HADNOT POINT WATER PLANTS

Ref: (1) TELECON btwn J. Hardwood and B. M. Frazelle, Water Treatment Foreman,
on 6 Dec 84

Encl: (1) Locator map of all wells in Hadnot Point and Holcomb Boulevard

1. As requested by the reference, the enclosure is forwarded for your disposition.
2. If we can be of any further assistance, please contact us at your convenience.

G. S. JOHNSON, JR.

Writer: B.M.Frazelle, Water Treat. Sec. X1081
Typist: S. Kolde, 10 Dec 84

First Director, Utilities Division

Government, Atlantic Division, Naval Facilities Engineering Command
Portsmouth, Virginia 23704 (Attn: Jerry L. Johnson, Room 114)

TO: DIRECTOR, UTILITIES DIVISION
FROM: [Illegible]

(1) [Illegible] and [Illegible] Water Treatment Plant
on [Illegible]

(2) [Illegible] and [Illegible] [Illegible]

[Illegible] [Illegible] [Illegible] [Illegible] [Illegible]

[Illegible] [Illegible] [Illegible] [Illegible] [Illegible]

0467040 C-N-10 0382
CAMP LEJEUNE
COMMANDING GENERAL
MARINE CORPS BASE
CAMP LEJEUNE NC 28542

CORROSIVITY ANALYSIS

Please check off the construction materials present in your distribution system. If you have more than one distribution system, fill out a separate form for each one. This form must be completed by every community public water supply including purchase supplies. Complete and return this form to the address at the bottom of the page by February 1983.

- _____ Lead from piping, solder, caulking, interior lining of distribution mains, alloys and home plumbing
- _____ Copper from piping and alloys, service lines and home plumbing
- _____ Galvanized piping, service lines and home plumbing
- _____ Ferrous piping materials such as cast iron and steel
- _____ Asbestos cement pipe
- _____ Vinyl lined asbestos cement pipe
- _____ Coal tar lined pipes and tanks
- _____ Other (describe)

Return this form to:

Charles E. Rundgren, Head
Water Supply Branch
Division of Health Services
P. O. Box 2091
Raleigh, North Carolina 27602-2091

0467040 C-N-10 0282
CAMP LEJEUNE
COMMANDING GENERAL
MARINE CORPS BASE
CAMP LEJEUNE NC 28542

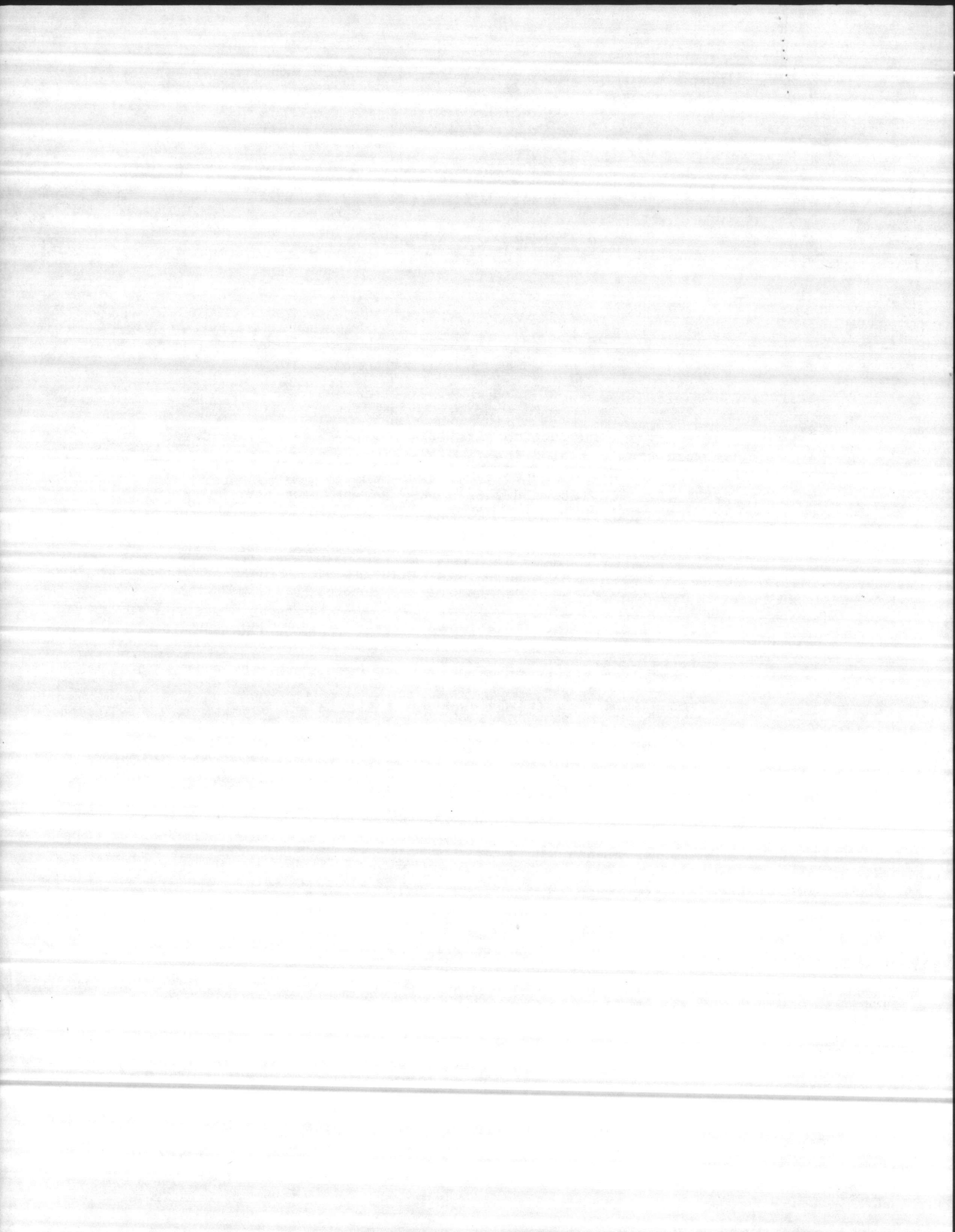
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- _____ Lead from piping, solder, caulking, interior lining of distribution mains, alloys and home plumbing
- _____ Copper from piping and alloys, service lines and home plumbing
- _____ Galvanized piping, service lines and home plumbing
- _____ Ferrous piping materials such as cast iron and steel
- _____ Asbestos cement pipe
- _____ Vinyl lined asbestos cement pipe
- _____ Coal tar lined pipes and tanks
- _____ Other (describe)

Return this form to:

Charles E. Rundgren, Head
Water Supply Branch
Division of Health Services
P. O. Box 2091
Raleigh, North Carolina 27602-2091



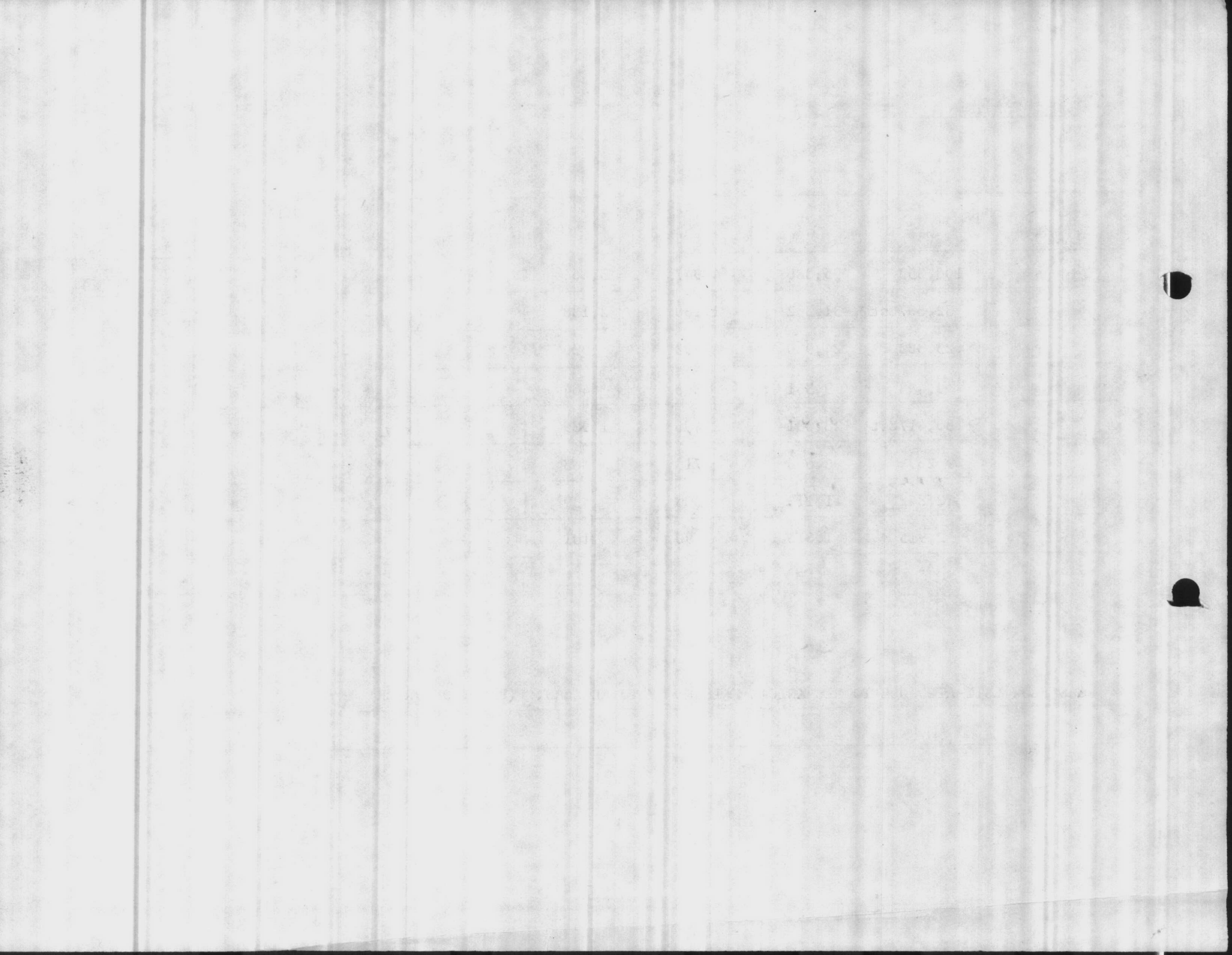
WATER TREATMENT PLANTWATER FLOWDATE: January 1983

PLANT	RAW	DELIVERED	WASHING FILTERS	MAX. DEL.	POTABLE WATER USED	WELLS MAX. SAFE YIELD/DAY	PLANT CAPACITY DAY	TREATMENT
HADNOT POINT	100,353	95,386	4,947	3,464	13	5,900	5,000	LIME
HOLCOMB BLVD.	32,667Est	31,352	1,150	2,130	3	2,304	2,000	LIME
TARAWA TERRACE	25,888	24,980	893	926	3	1,152	1,000	LIME
MONTFORD POINT	9,483	9,361	666	464	3	622	750	ZEOLITE
MCAS	30,417Est	28,001	2,406	1,989	3	4,081	3,500	LIME
RIFLE RANGE	9,289	8,563	718	363	3	648	600	ZEOLITE
COURTHOUSE BAY	12,842	11,113	803	439	3	864	600	ZEOLITE
ONSLOW BEACH	2,915	1,616	90	101	3	250	250	ZEOLITE

WATER IN MILLION GALLONS

REMARKS:

MCAS FLOW ESTIMATED DUE TO MECHANICAL FAILURE OF TOTALIZERS. (PARTS ON ORDER)



WATER TREATMENT PLANT

WATER FLOW

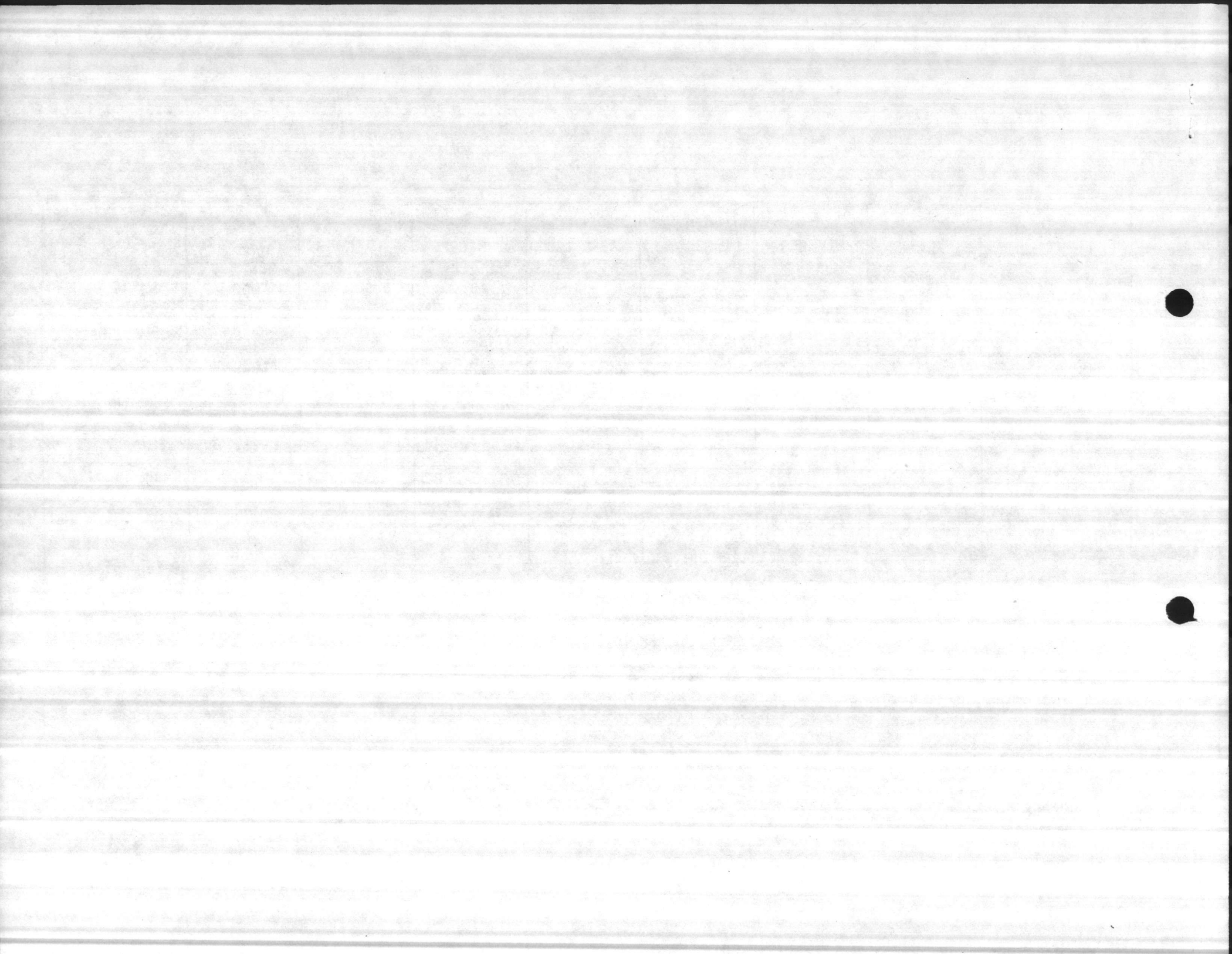
DATE: Feb. 83

PLANT	RAW	DELIVERED	WASHING FILTERS	MAX. DEL.	POTABLE WATER USED	WELLS MAX. SAFE YIELD/DAY	PLANT CAPACITY DAY	TREATMENT
HADNOT POINT	87,560	83,654	4,469	3,424	13	5,900	5,000	LIME
HOLCOMB BLVD.	38,119	31,409	1,447	1,985	3	2,304	2,000	LIME
TARAWA TERRACE	23,071	22,960	.672	.968	3	1,152	1,000	LIME
MONTFORD POINT	9,338	9,118	.652	.514	3	622	750	ZEOLITE
MCAS EST.	27,111	24,604	2,496	2,103	3	4,081	3,500	LIME
RIFLE RANGE	4,731	3,914	.610	.349	3	648	600	ZEOLITE
COURTHOUSE BAY	9,245	9,313	.696	.673	3	864	600	ZEOLITE
ONSLow BEACH	1,491	1,358	.099	.059	3	250	250	ZEOLITE

WATER IN MILLION GALLONS

REMARKS:

MCAS Estimated Due To Mechanical Failure of Totalizers.
(Parts on Order)



Memorandum

11300
MAIN

DATE: 19 DEC 1986

FROM: Base Maintenance Officer, Marine Corps Base, Camp Lejeune

TO: Assistant Chief of Staff, Base Operational Support Management
Assistance Department, Marine Corps Base, Camp Lejeune

SUBJ: REQUEST FOR SPREADSHEET SIZE PRINTER FOR BLDG 670 WATER PLANT

Encl: (1) NC Dept of HumanRes ltr of 16 Apr 86
(2) WaterTreatFore memo of 12 Aug 86

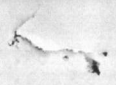
1. It is requested that a Dot Matrix printer be authorized for procurement, to be used at Building 670 Water Treatment Plant. Spreadsheet size reports must be produced on a monthly basis for submission to the State of North Carolina Department of Human Resources. The acquisition of this device is required as soon as possible to facilitate the delivery of these regulatory documents to local officials.

a. Justification: On 10 April 1986, a consultant from the North Carolina Department of Human Resources inspected Camp Lejeune's water supply operations. From this review, it was directed that a report of operations be sent to the Raleigh, North Carolina office on a monthly basis. This report is to contain daily readings of all critical water plant operations, i.e. total water treated, filter and softener operations, chemical feed and dosage rates. Data is required from six water plants which are located throughout Camp Lejeune in accordance with enclosures (1) and (2).

The required report is being maintained on a daily basis on a Lotus 1-2-3 program which is run on an existing Televideo personal computer. No printer capability is currently available to accommodate a report of this magnitude. Consequently, request a Data Products Model 8070 Dot Matrix printer be procured for this application. A 5-mile trip to Base Maintenance, Building 1202, is required to have access to a printer which can handle the size of this spreadsheet report.

b. Specifications:

- (1) Uses 8½" x 11", 8½" x 14" bond paper in addition to 11" x 14 7/8" computer paper.
- (2) Prints in 10, 12, and 17 pitch.
- (3) Possesses graphics capability.
- (4) Can legibly print on up to 10-part paper.
- (5) Prints boldface type.
- (6) Dot Matrix printing head.
- (7) Prints Letter, Text and Data Processing Quality.
- (8) Can print scientific notations.
- (9) Training and set-up period is provided as required.



3801937

Subj: REQUEST FOR SPREADSHEET SIZE PRINTER FOR BLDG 670 WATER PLANT

c. Nomenclature:

- (1) Printer, Data Products Model 8070, Dot Matrix
Cost: \$1550
NSN: 7025-00-C96-1881
- (2) Cable, Interface for connecting Model 8070 Printer
Cost: \$19
NSN: 7035-00-C96-1882

d. Sole Source:

Lanier Business Products
526 Pylon Drive
Raleigh, NC 27606

It is imperative that the printer be procured from this source to ensure that proper set-up, training and warranty are applied.

M. G. LILLEY

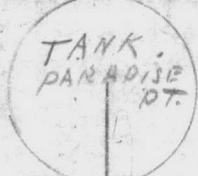
Blind copy to:

UMACS

WaterTreatSec (Attn: M. Frazelle) ✓



X-VALVES



6-7-51

X⁶

MAIN LINE

PUMP DISCHARGE

BY PASS LINE

GOLF COURSE LINE

X⁵

X

TO GARDENS

BLOW OFF

PUMP HOUSE

TO

TO PUMP TO GOLF COURSE

1 OPEN VALVE # 1

2 START PUMP

3 CLOSE VALVE # 3

2 + 6 STAY OPEN

5 STAY CLOSED

4 STAY CLOSED

TO SUPPLY GOLF COURSE FROM TANK

1 OPEN VALVE # 3

2 STOP PUMP

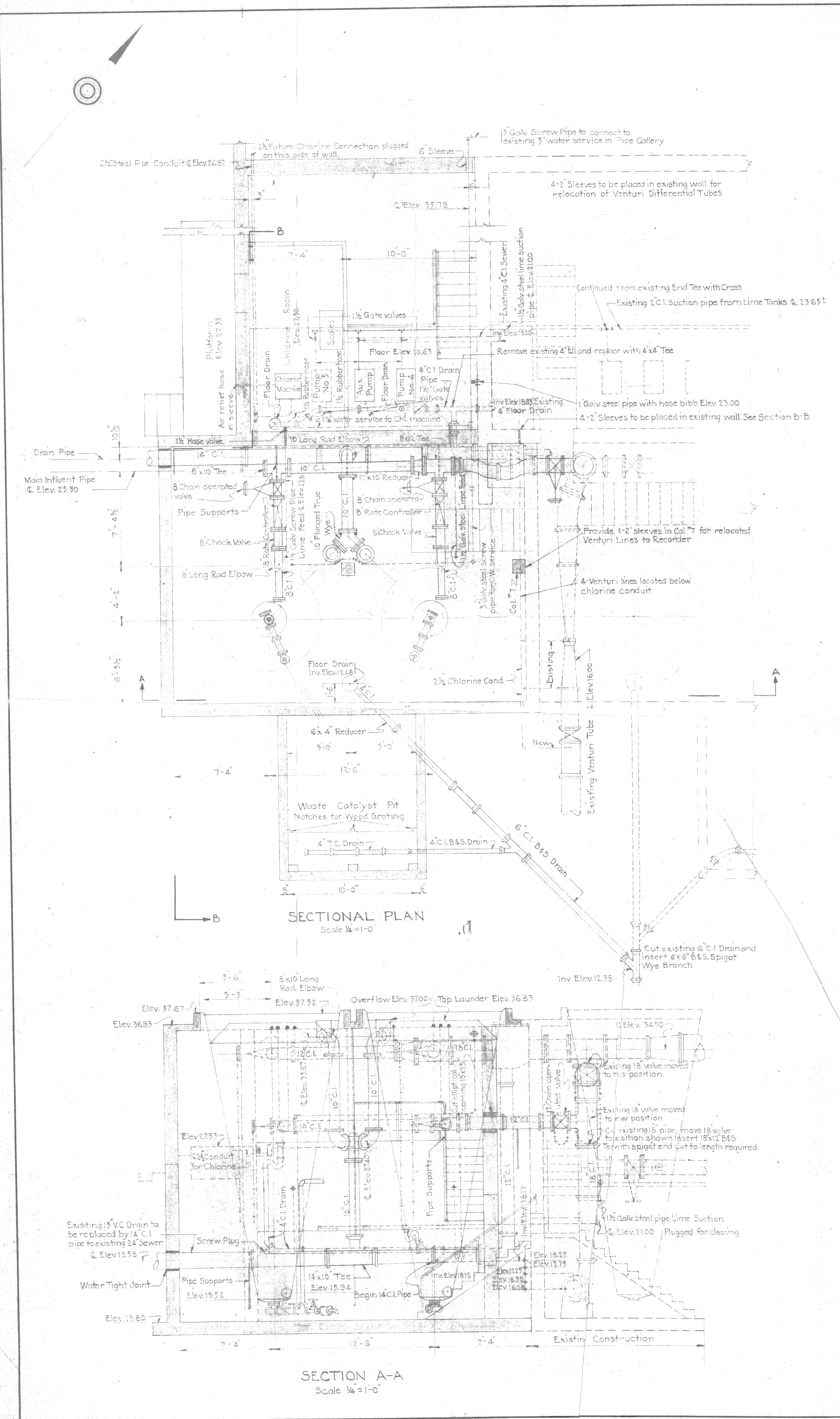
3 CLOSE VALVE # 1

X³

X²

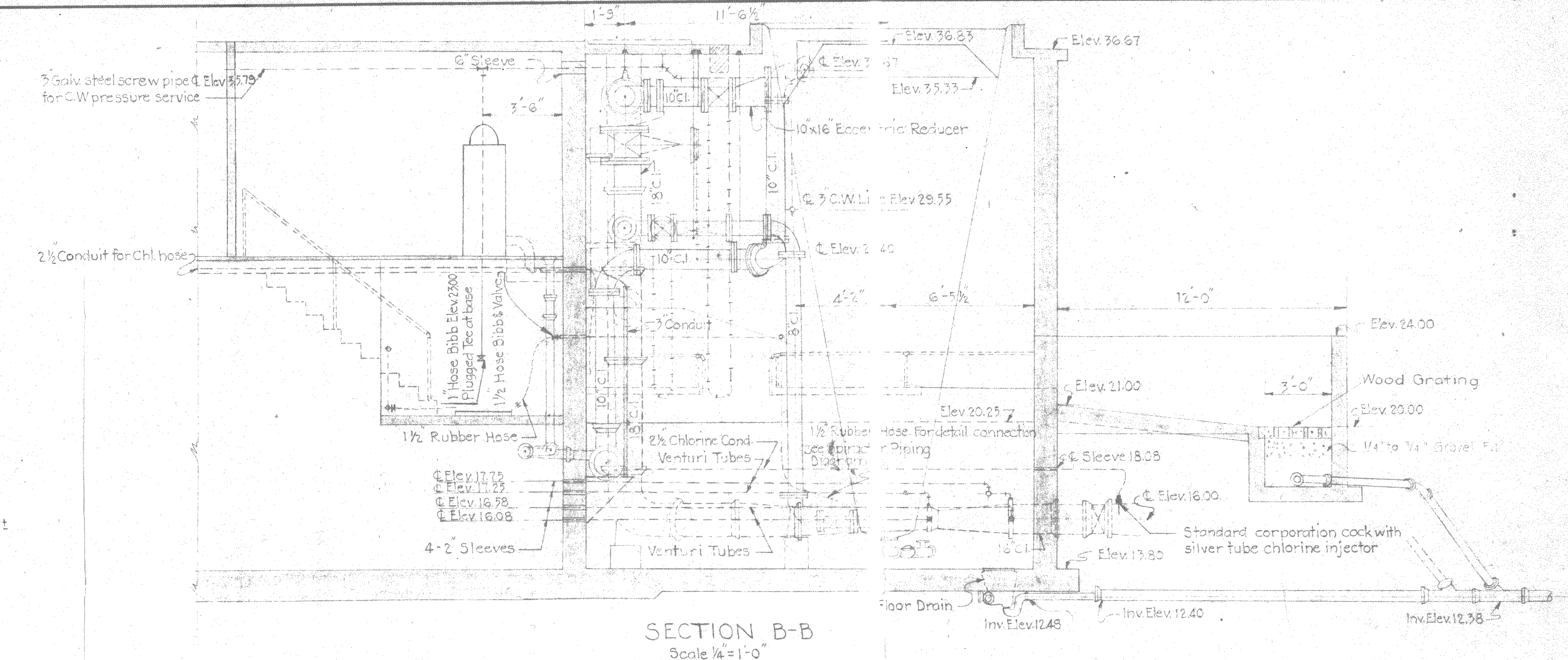
X¹

X⁴

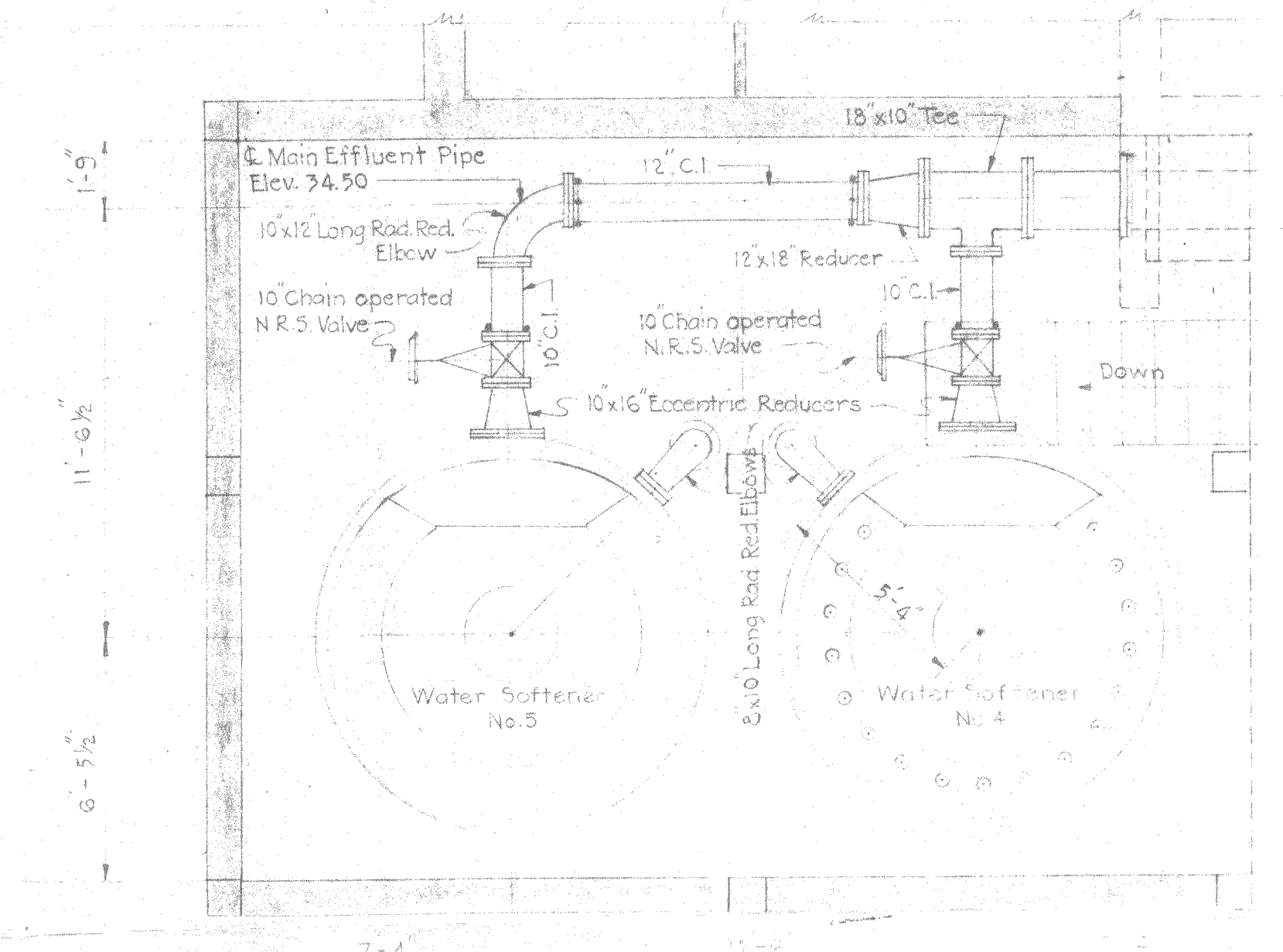


SECTIONAL PLAN
Scale 1/4"=1'-0"

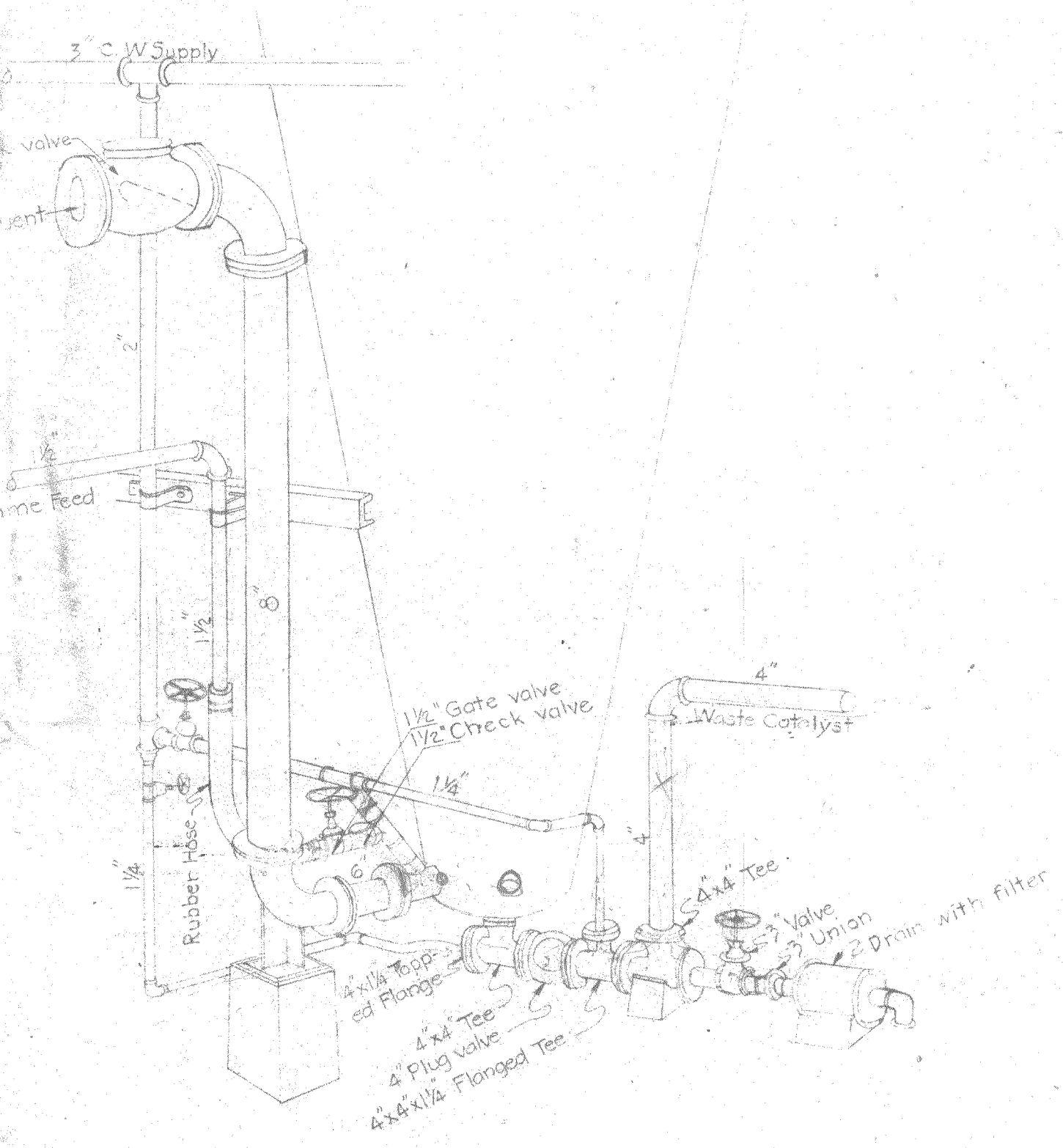
SECTION A-A
Scale 1/4"=1'-0"



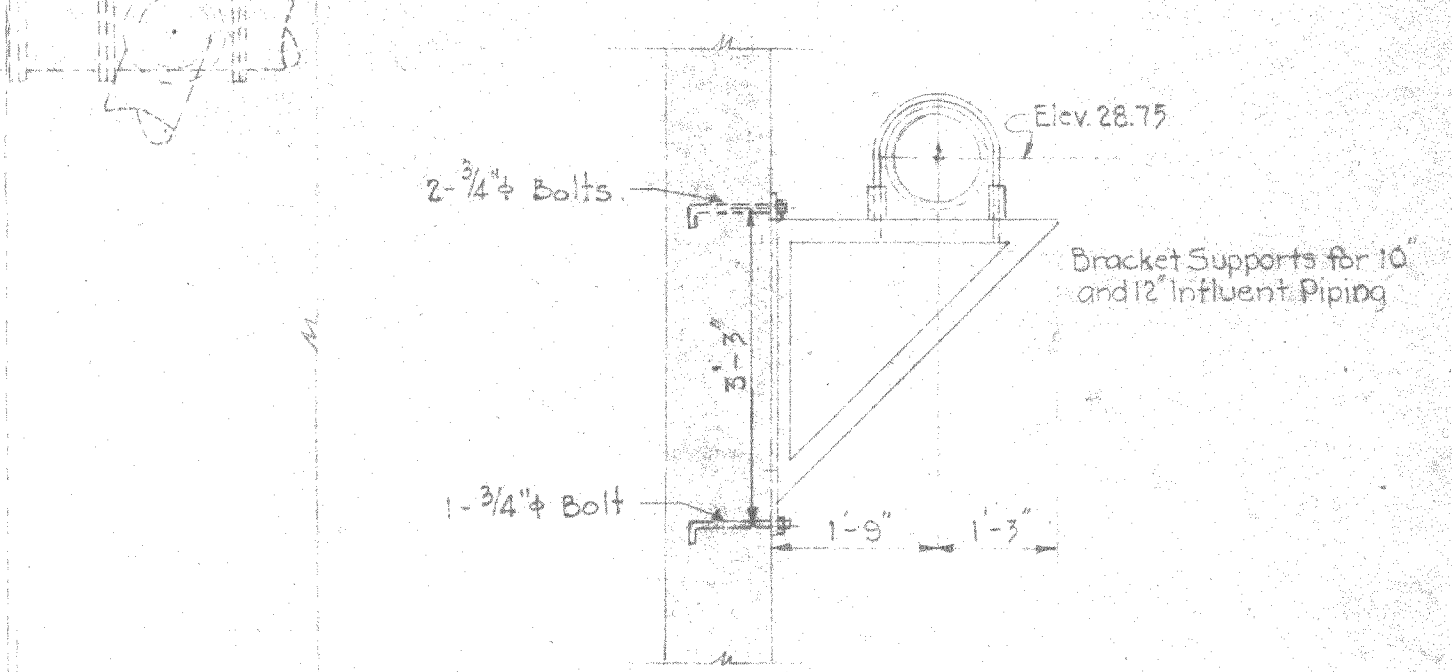
SECTION B-B
Scale 1/4"=1'-0"



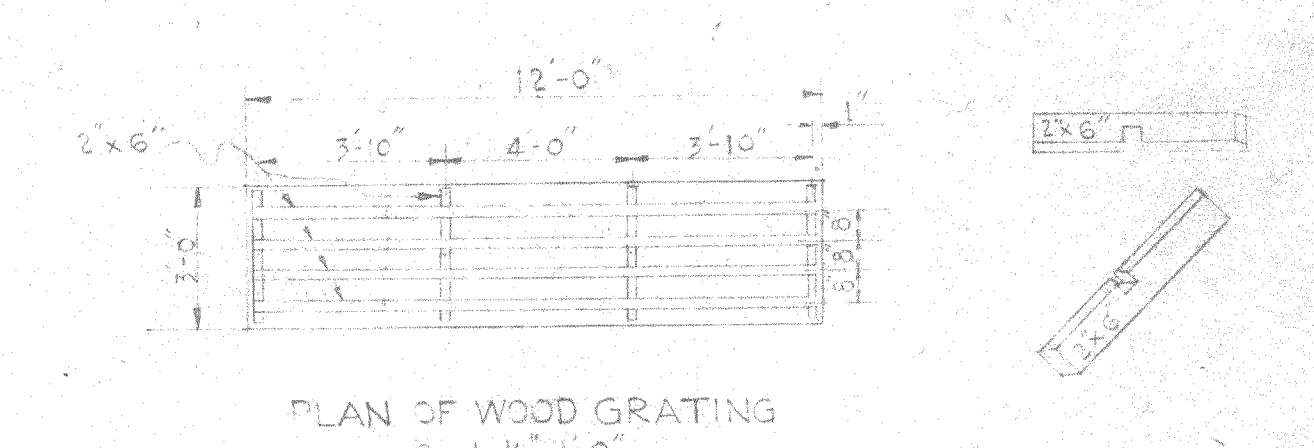
SECTIONAL PLAN AT ELEVATION 30.00
Scale 1/4"=1'-0"



WATER SOFTENER PIPING DIAGRAM
Not to scale



DETAIL OF PIPE BRACKET SUPPORTS
Scale 1/2"=1'-0"



PLAN OF WOOD GRATING
Scale 1/4"=1'-0"

DRAWN BY F.D.K.		CARR & J. E. GREINER CO.—ARCHITECT-ENGINEERS	
TRACED BY I.S.K.		DURHAM, N. C.	
CHECKED BY M.F.W.		BALTIMORE, MD.	
CHIEF DFMN B.W.L.		CAMP LEJEUNE — NEW RIVER, N. C.	
IN CHARGE		BUREAU OF YARDS AND DOCKS — U. S. NAVY	
DATE Sept 13, 1944		ADDITION TO WATER TREATMENT PLANT	
SCALE As Noted		DIVISION TRAINING AREA	
Y. & D. DRAWING NO.		MECHANICAL	
		CATALYTIC SOFTENER	
ARCHITECT-ENGINEERS SPECIFICATION		APPROVED _____ 19	SHEET
NO. 15581		BY _____ OFFICER IN CHARGE	A-E CONT. NO. C-441
REVISION	DATE	BRIEF	O. IN CHARGE

REVISION	DATE	BRIEF	O. IN CHARGE

DEC 1 1944

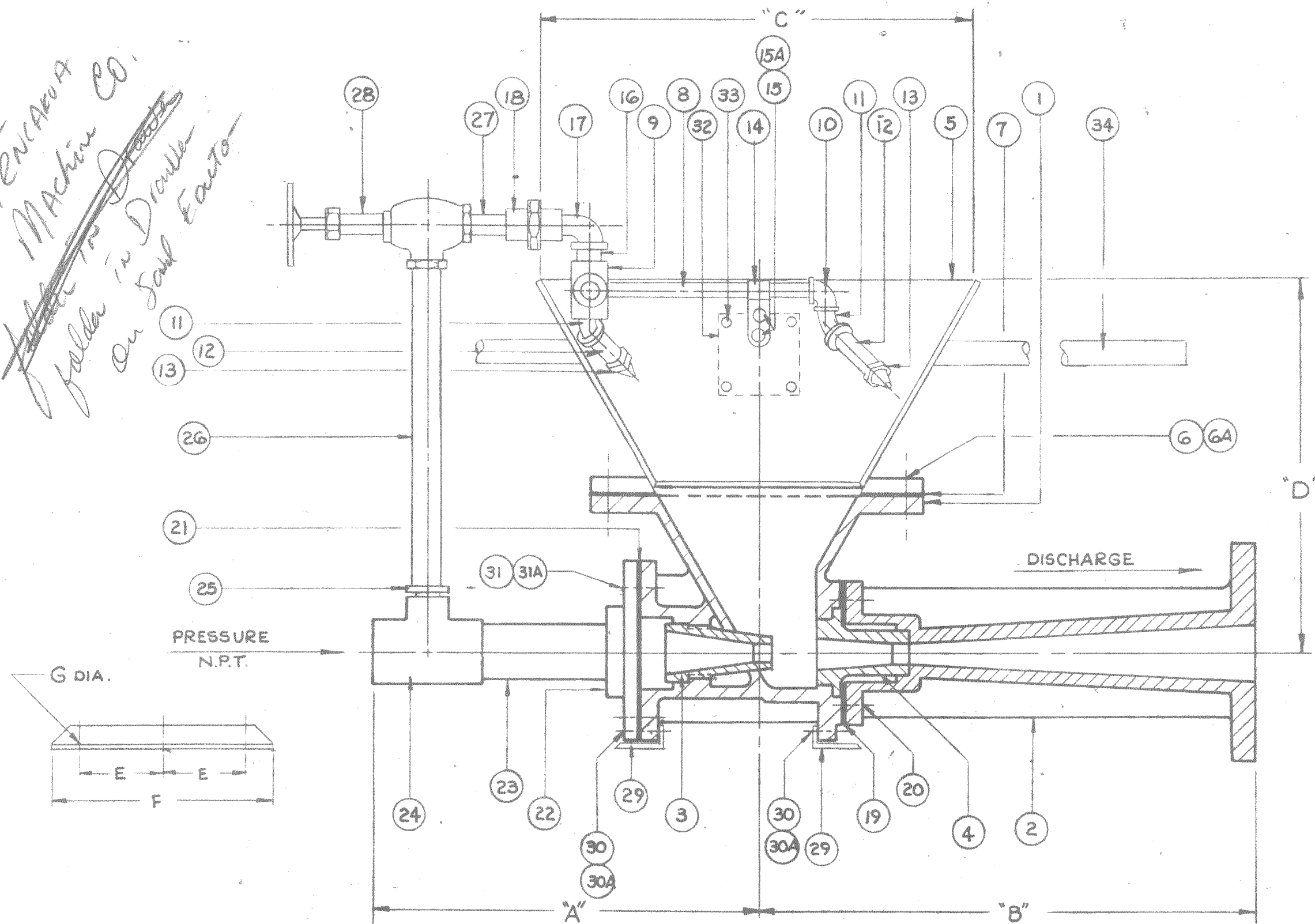
UNITED STATES DEPARTMENT OF THE INTERIOR	LAND OFFICE
WASHINGTON, D. C.	
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BY	
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NOTES:

- 1.) MK'S. 29, 32 & 34 ARE OPTIONAL.
- 2.) DISCHARGE FIG. HAS 125# DRILLING.

Refer to TENCANA Machine Co. folder in Drawing on Seal Facts

MARK	NO. PCS.	DESCRIPTION	MATERIAL
34	1	CARRYING HANDLES	
33	4	BOLTS & NUTS	
32	2	HANDLE BRACKET	
31A	4	HVY. HEX. NUTS	STL.
31	4	CAPSCREWS	STL.
30A	4	HVY. HEX. NUTS	STL.
30	4	CAPSCREWS	STL.
29	2	SUPPORT FEET	STL. 2
28	1	1/2" 125# 6CR'D. ANGLE STOP VALVE	BRZ.
27	1	1/2" PIPE NIPPLE	STL.
26	1	1/2" PIPE	STL.
25	1	1 1/2" RED. BUSHING	C.I.
24	1	2" 6CR'D. RED. TEE	STL.
23	1	2" PIPE T.BE.	STL.
22	1	2" 125# F.F. 6CR'D. FIG.	C.I.
21	1	GASKET 1/16" THK.	ASB. ANK.
20	4	CAPSCREWS	STL.
19	1	GASKET 1/16" THK.	ASB. ANK.
18	1	1/2" SCR'D. UNION	STL.
17	1	1/2" STD. 90° STREET ELBOW	M. I.
16	1	1/2" CLOSE NIPPLES	STL.
15A	4	HVY. HEX. NUTS	STL.
15	4	CAPSCREWS	STL.
14	2	CLAMPS	STL.
13	3	WASHDOWN NOZZLES	BRZ.
12	3	1/2" PIPE NIPPLE TEE	STL.
11	3	1/2" STD. 45° STREET ELBOW	M. I.
10	2	1/2" STD. 90° ELBOW	STL.
9	1	1/2" STD. CROSS	STL.
8	2	1/2" BENT PIPE	STL.
7	1	GASKET 1/16" THK.	ASB. ANK.
6A	8	HVY. HEX. NUTS	STL.
6	8	CAPSCREWS	STL.
5	1	FUNNEL ASSY.	SST. 304
4	1	THROAT	STL.
3	1	NOZZLE	STL.
2	1	TAIL	C.I.
1	1	BODY	C.I.



SIZE	DISCH.	PRESS.	A	B	C	D	E	F	G
2"	2"	2	14 1/2	13 3/4	21	17 3/4	6"	20"	1/2"
1 1/2"	1 1/2"	1 1/2	13 1/2	12 3/4	19	16 3/4	5"	18"	1/2"
1"	1"	1	12 1/2	11 3/4	17	15 3/4	4"	16"	1/2"

CERTIFIED FOR TIDEWATER MACHINERY & MACHINE TOOL CO.
 ORDER NO. UE-7230497 DATE 3-15-77
 S & K ORDER NO. M77-20091-J BY TEK

DO NOT USE FOR CONSTRUCTION
 UNLESS CERTIFIED FOR A SPECIFIC ORDER

SCHUTTE & KOERTING CO.
 SUBSIDIARY OF AMETEK CORP.
 CORNWELLS HEIGHTS BUCKS COUNTY, PENNA.

SECTIONAL-OUTLINE DRAWING
 STANDARD SAND & MUD EDUCTOR

SIZE	CODE IDENT. NO.	DRAWING NO.	REV
		77E-X013J	
SCALE NONE	WT	SHEET 1 OF 1	

UNLESS OTHERWISE NOTED:
 DIMENSIONS ARE IN INCHES
 BOLT HOLES STRADDLE C'S

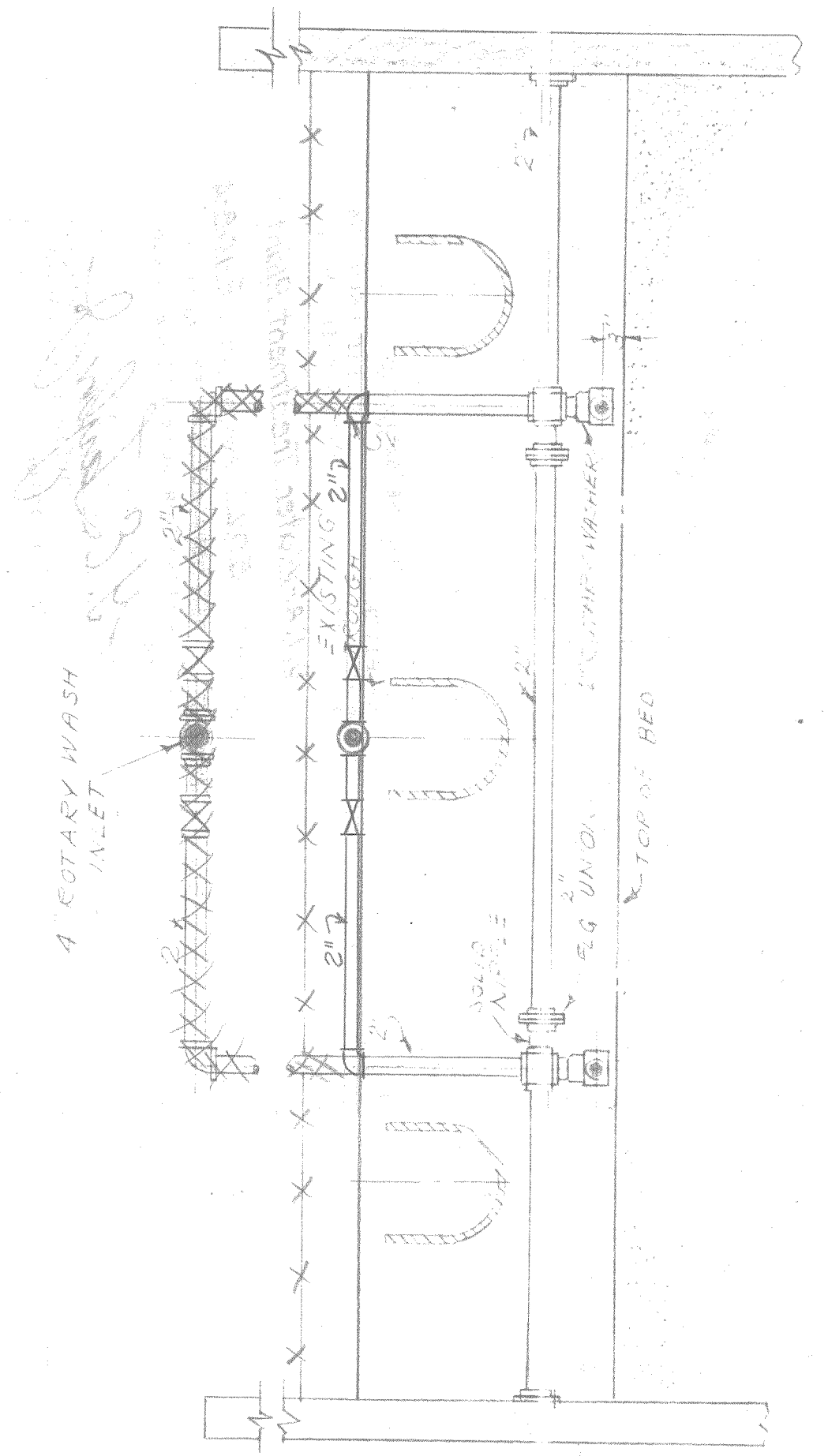
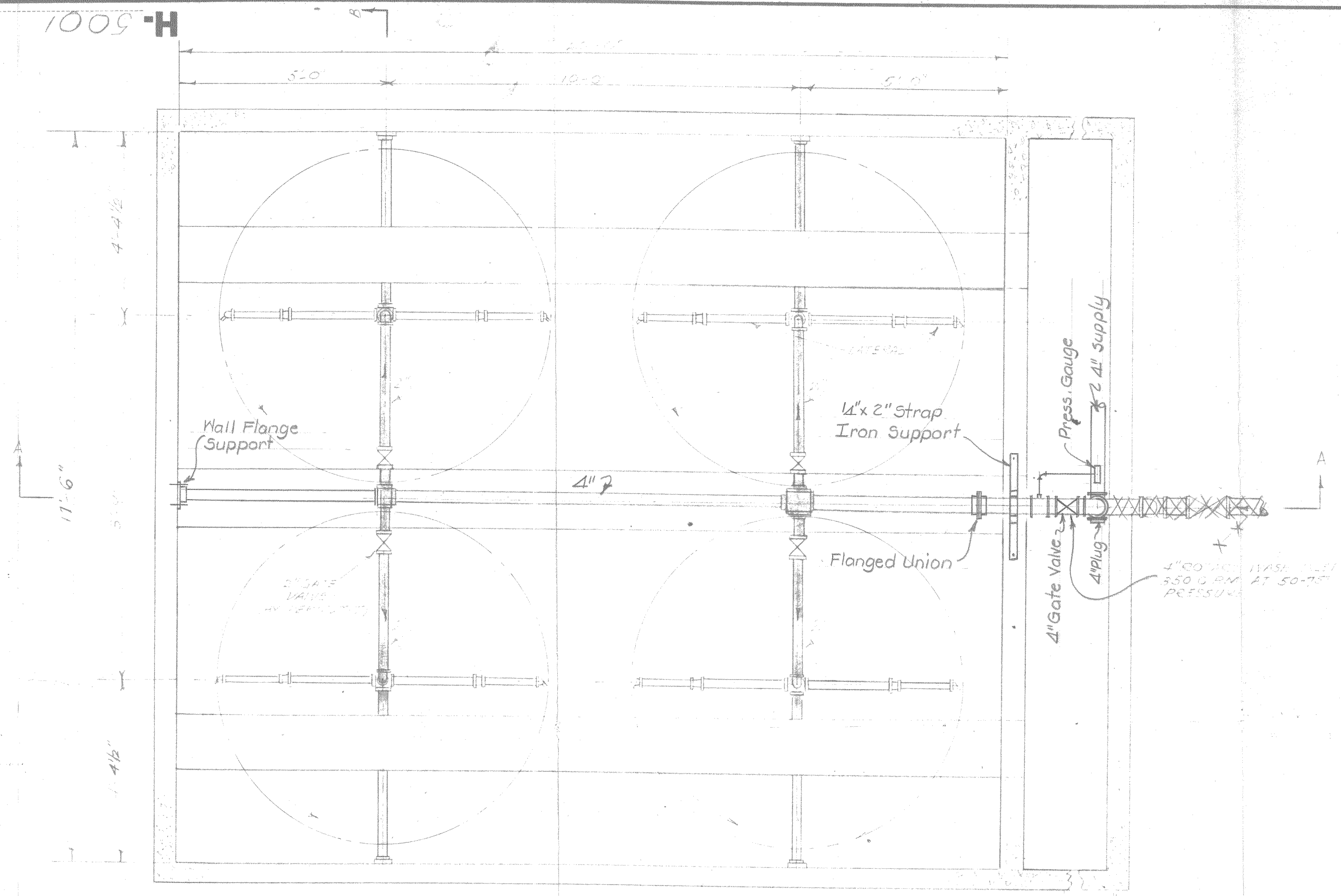
FIG. NO. 254
 S. J.
 B. M.
 MADE FROM 68-XG-030-J
 FILMED

DR. T.E.K. DATE 3-14-77
 CHKD. DATE
 APP'D. DATE
 APP'D. DATE

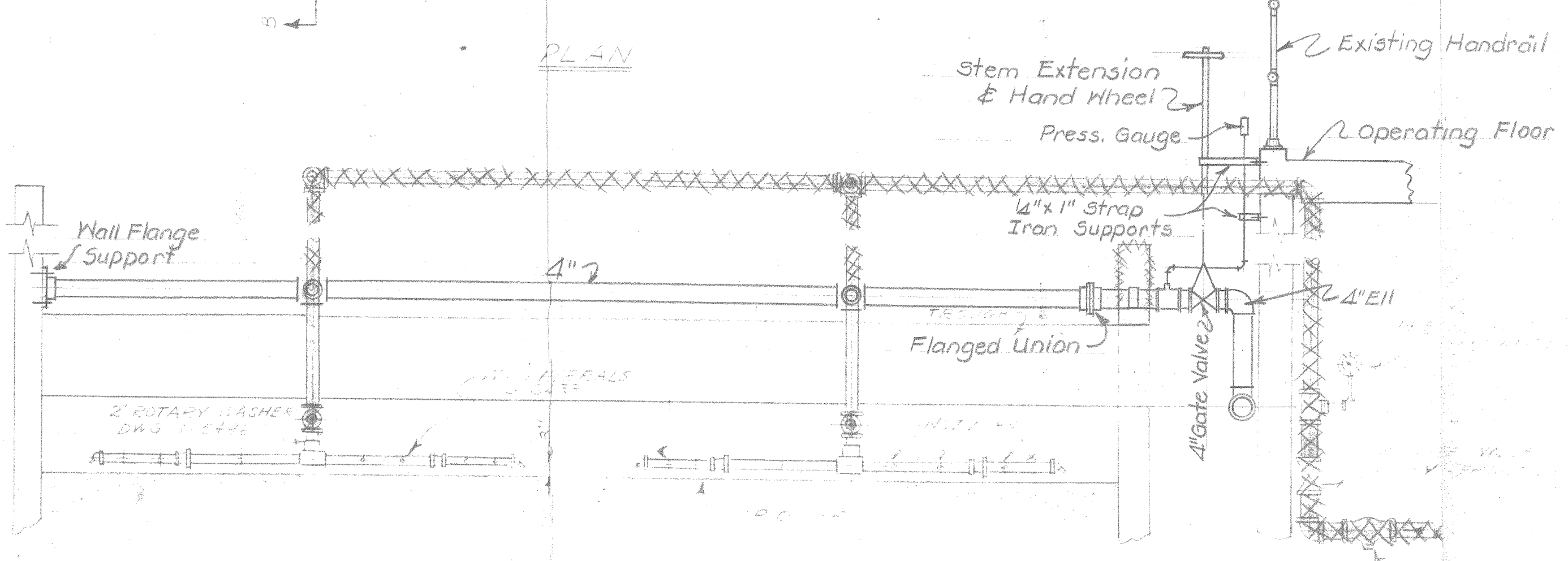
REVISIONS
 1 DATE



1009-H



PLAN



NOTE: NOTICED TO BE INSTALLED AT THAT ARM WILL HAVE 200 PSI - DISCLOSED BY PURCHASER. BEING KEPT IN CASE IT BE REPLACED BY PURCHASER.

NOTE: 4" Angle valve shall be used if available, in place of 4" gate valve shown and installed in place of 4" e.l.

NOTE: DO NOT SCALE THIS DRAWING USE DIMENSIONS ONLY.

Permutit
Water Conditioning

ROTARY WASH SYSTEM
FOR 17'-6" x 30" FILTER
U.S. MARINE BARRACKS,
NEW RIVER, N.C.
THE PERMUTIT COMPANY
NEW YORK, N. Y.

JOB # TBK-26880

REVISIONS	
A	
B	
C	
D	

SCALE

DATE

H-5001

DRAWN BY	E.J.F.
TRACED BY	E.J.F.
CHECKED BY	E.J.F.

UNLESS OTHERWISE SPECIFIED THE PERMUTIT COMPANY SUPPLIES only the water purification units proper, and does not furnish any labor or material for erection, masonry, steel or wood construction, or alterations, to existing structures.

UNLESS OTHERWISE SPECIFIED THE PURCHASER SUPPLIES labor and materials for all foundations, supports, platforms, ladders, etc., storage tanks, water pumps, motors, electrical connections, piping up to the inlet and from the outlet of the water purification plant proper, by-pass connections, sumps and drains, and all piping shown sniped on this drawing.

UNLESS OTHERWISE SPECIFIED all pressure vessels in this plant are designed for maximum working pressure of 100 lbs. per square inch.

OPERATING WEIGHTS:

Softener	Lbs.
Filter	"
Salt Storage Tank	"
Brine Measuring Tank	"

FILTERS

NEW RIVER MARINE BARRACKS
Office of NORTH CAROLINA
Officer-in-Charge

D.T.A.-Water Treatment Plant

Spec'n No. 502 Project No. P-108-4

Approved subject to Contract
Requirements and Corrections noted
in red.

Y. E. Taylor, Jr.
Officer-in-Charge
By direction

537
88

8-253

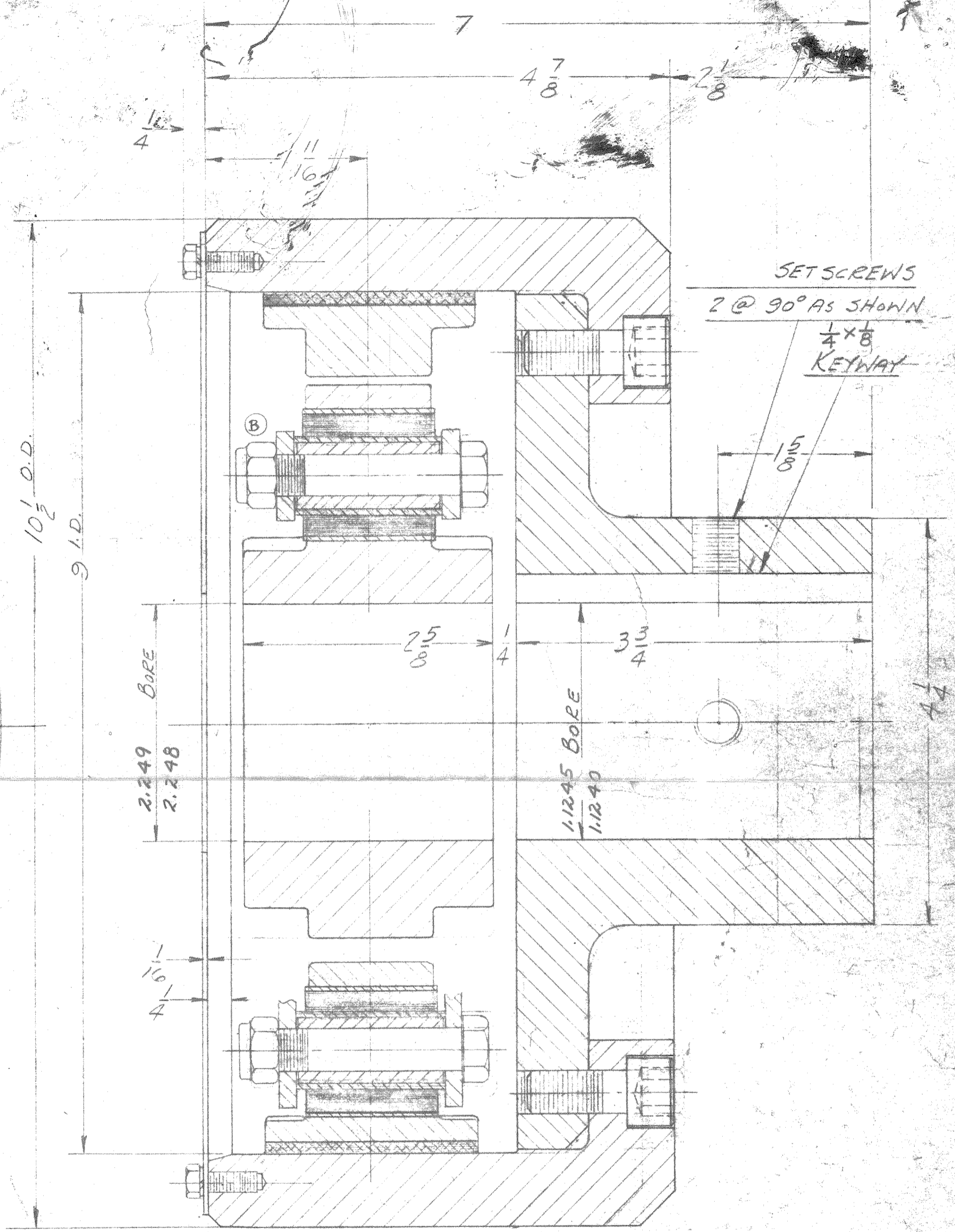
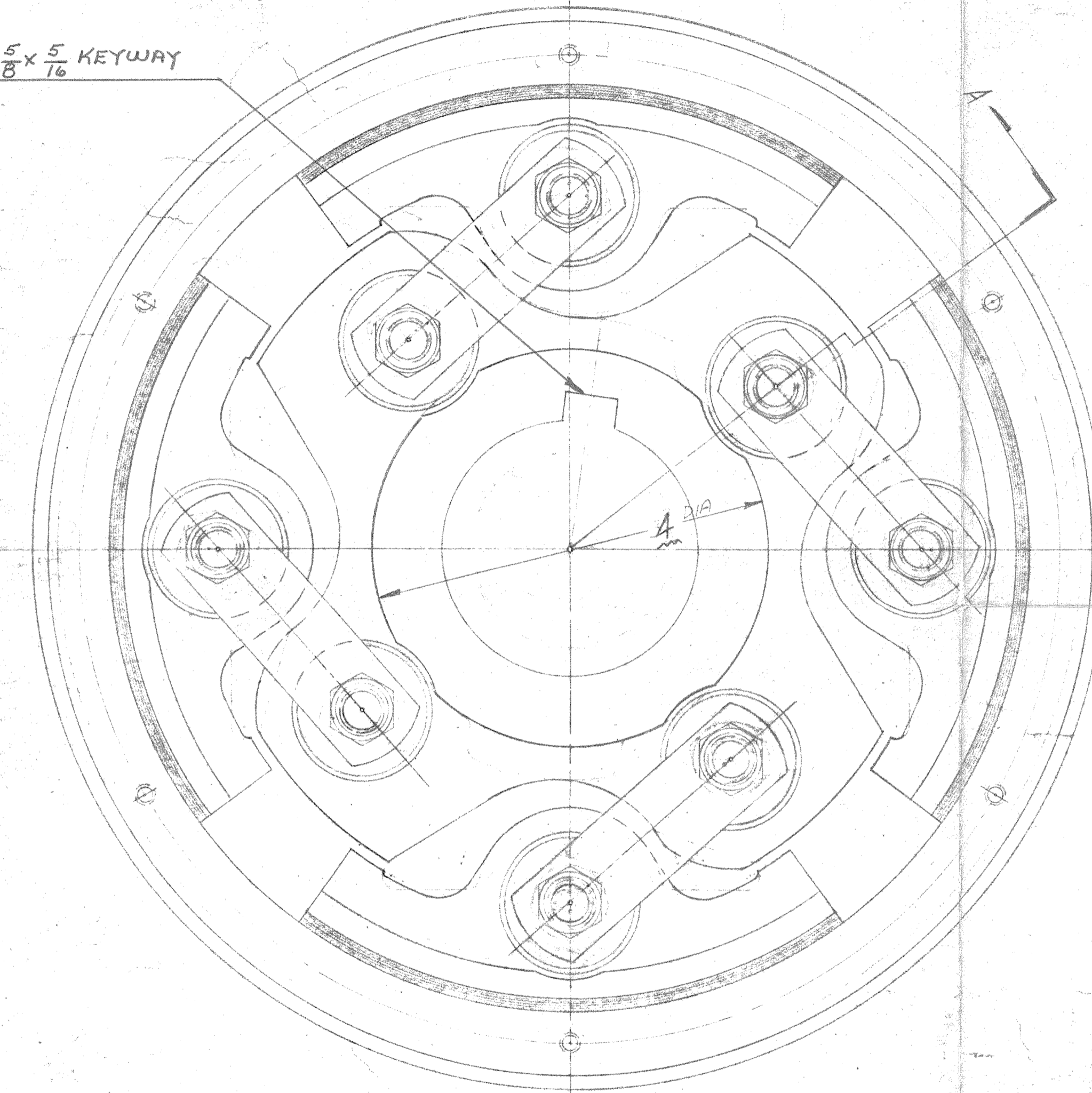
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64669 2-100

5/8 x 5/16 KEYWAY



SET SCREWS
2 @ 90° AS SHOWN
1/4 x 8
KEYWAY

DISTRICT PUBLIC WORKS OFFICE
NAVAL BASE NORFOLK, VA.

APPROVED

SUBJECT TO THE REQUIREMENTS OF
NOY 7231

CONTRACT NO. SPEC 47371

APPROVAL OF MATERIALS AND/OR EQUIPMENT
INDICATES COMPLIANCE WITH SPECIFICATION
REQUIREMENTS ONLY. THE CONTRACTOR SHALL
BE RESPONSIBLE FOR PROVIDING PROPER PHYSICAL
DIMENSIONS & WEIGHTS, COORDINATION OF
TRADES, ETC., AS REQUIRED.

W. SIMLER
Rear Admiral, CEC, USN
District Public Works Officer

DATE 7-31-56

COVER REMOVED IN THIS VIEW

This DRAWING is
Certified for WORTHINGTON CORPORATION
ORDER # WY-15781-C
HILLIARD ORDER # C-5494B
LEADING SHOES SET FOR 900 R.P.M. ENGAGING SPEED.

64669 2-100 SECTION A-A

6 339 2

ALT.	WAS	BY	DATE
(B)	BOLTS & NUTS CORRECTED	WAS	10/27/56
(A)	WAS SK-2210	JONES	12/9/56

DR. RC 10-4-54 CH. AP.

THE HILLIARD CORPORATION, ELMIRA, N. Y.

UNLESS OTHERWISE SPECIFIED
FRACTIONAL MACHINE
DIMENSIONS = ± 1/64
DECIMAL MACHINE
DIMENSIONS = ± .005

94-1-410

NAME: GEN. ASSEM 94 HILLIARD TWIFLEX AUTO. COUPLING

MATERIAL:

01808.

UNCLASSIFIED
EXCLUDED

LABORATORY
SERIALS

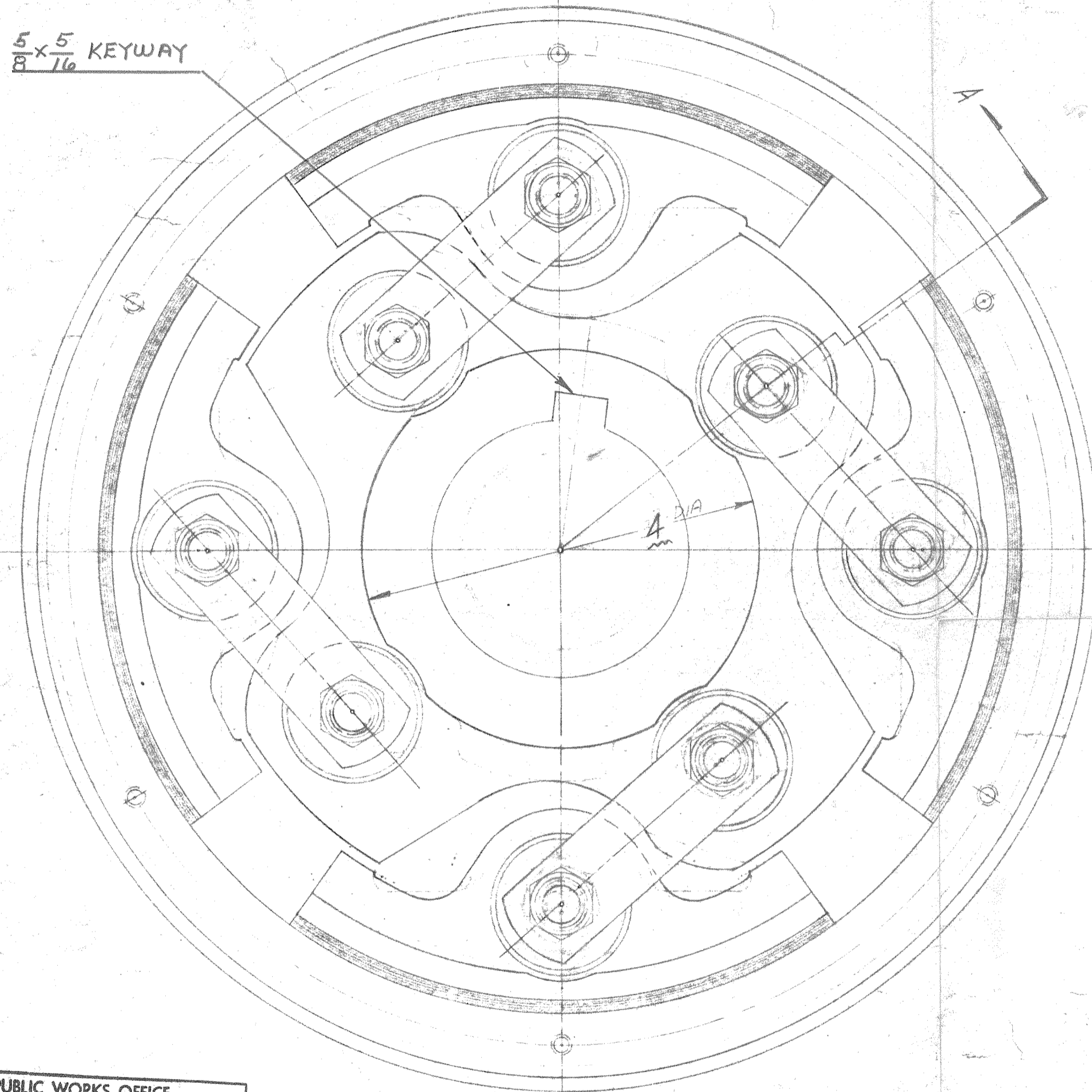
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FOR RELEASE

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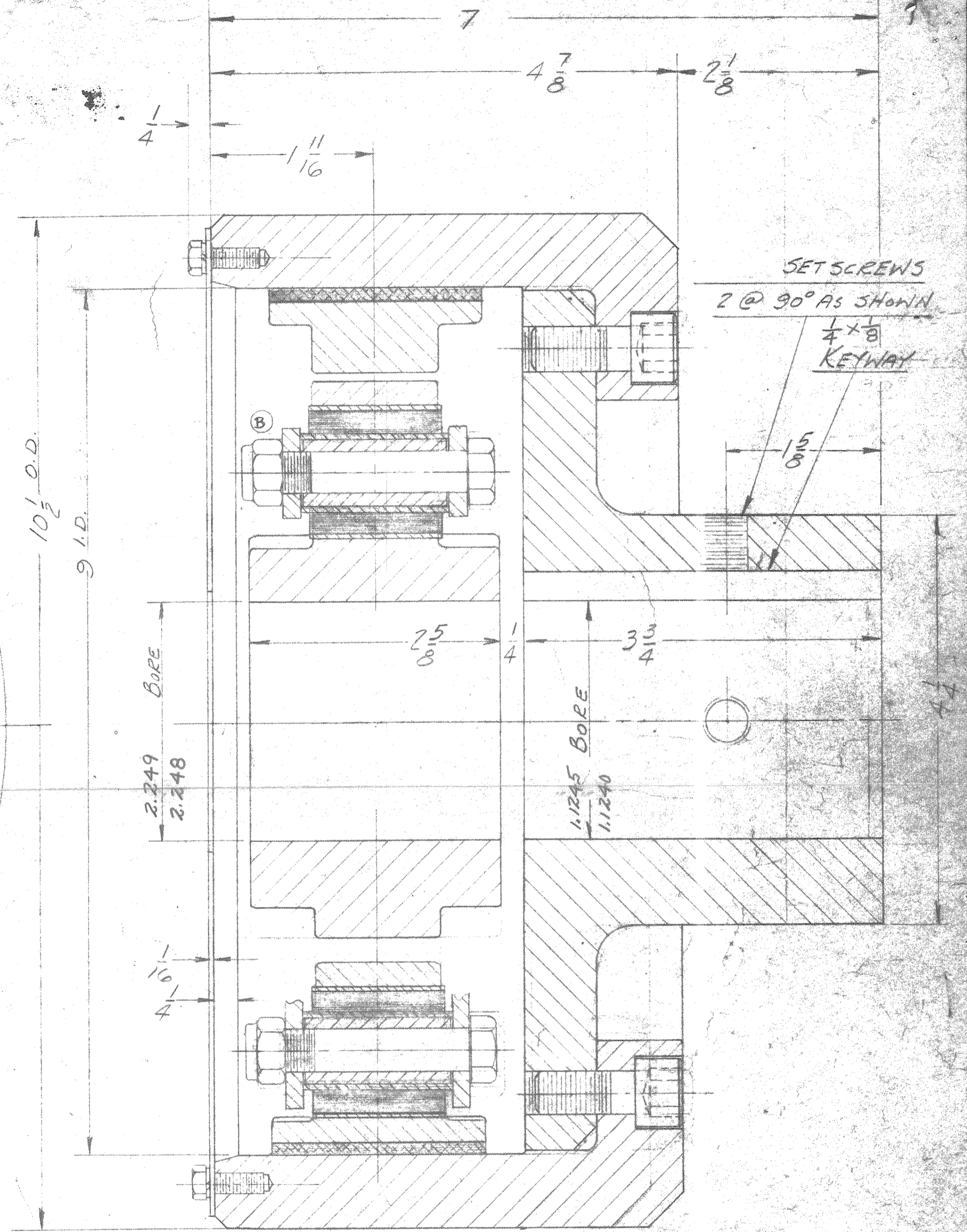
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$\frac{5}{8} \times \frac{5}{16}$ KEYWAY



A

COVER REMOVED IN THIS VIEW



This DRAWING is

Certified for WORTHINGTON CORPORATION

ORDER # WY-15781-C

HILLIARD ORDER # C-5494B

LEADING SHOES SET FOR 900 R.P.M. ENGAGING SPEED

SECTION A-A

8 4669 2 - 100

(B)	BOLTS & NUTS CORRECTED	10/27/50
(A)	WAS SK-2210	12/9/54
ALT.	WAS	BY DATE

DR. RC 10-4-54 CH. AP.

THE HILLIARD CORPORATION, ELMIRA, N. Y.

UNLESS OTHERWISE SPECIFIED FRACTIONAL MACHINE DIMENSIONS = ± 1/64 DECIMAL MACHINE DIMENSIONS = ± .005

94-1-410

DISTRICT PUBLIC WORKS OFFICE
NAVAL BASE - NORFOLK, VA.

APPROVED

SUBJECT TO THE REQUIREMENTS OF
NOY 91281 SPEC 47371

CONTRACT NO. APPROVAL OF MATERIALS AND/OR EQUIPMENT INDICATES COMPLIANCE WITH SPECIFICATION REQUIREMENTS ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PROPER PHYSICAL DIMENSIONS & WEIGHTS, COORDINATION OF TRADES, ETC., AS REQUIRED.

W. SIHLER
Lieut. Admiral, CEC, USN
District Public Works Officer

DATE 21 July 56

NAME: GEN. ASSEM 94 HILLIARD TWIFLEX AUTO. COUPLING
MATERIAL:

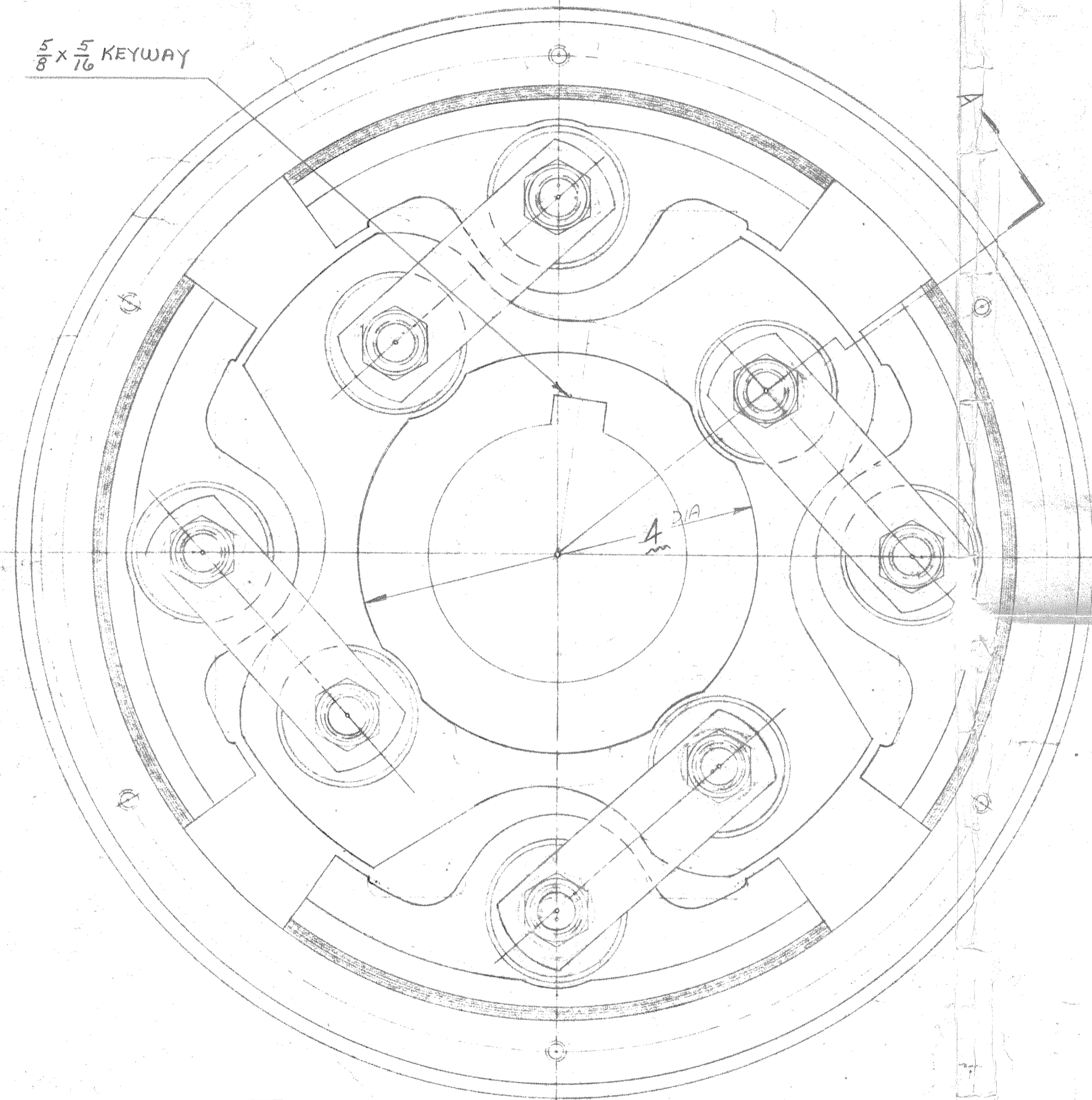
U-808 3

U-808 3

DISTRICT PUB. WOOD OFFICE
 NAVAL BASE
 APPROVED
ISSUED
 JUN 21 1955
 IN RESPONSIBLE FOR RECORDS
 DIVISIONS & WAREHOUSES
 LIAISON TO
 TRAVEL ETC. AS REQUIRED
 DATE
 PER

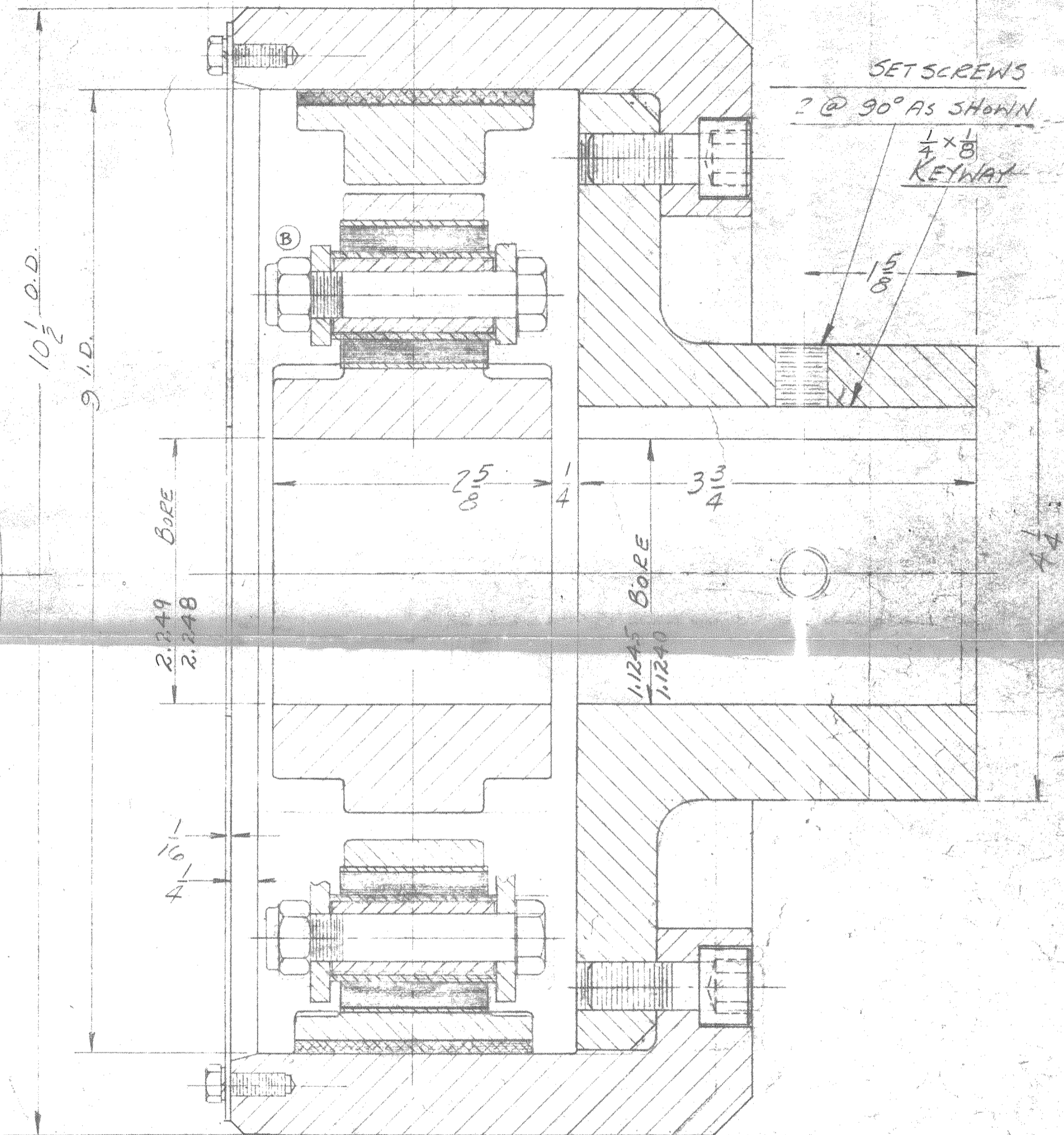
646692-100
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$\frac{5}{8} \times \frac{5}{16}$ KEYWAY



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DISTRICT PUBLIC WORKS OFFICE
 NAVAL BASE NORFOLK, VA.

APPROVED

SUBJECT TO THE REQUIREMENTS OF
 NOV 9/28/

CONTRACT NO. SPEC 47371

APPROVAL OF MATERIALS AND/OR EQUIPMENT
 INDICATES COMPLIANCE WITH SPECIFICATION
 REQUIREMENTS ONLY. THE CONTRACTOR SHALL
 BE RESPONSIBLE FOR PROVIDING PROPER PHYSICAL
 DIMENSIONS & WEIGHTS, COORDINATION OF
 T.D.S., ETC., AS REQUIRED.

DATE 7-31-56

W. SIHLER
 Rear Admiral, CEC, USN
 District Public Works Officer

This DRAWING is
 Certified for WORTHINGTON CORPORATION
 ORDER # WY-15781-C
 HILLIARD ORDER # C-5494B
 LEADING SHOES SET FOR 900 R.P.M. ENGAGING SPEED
 SECTION A-A

646692-100

B	BOLTS & NUTS CORRECTED.	10/27/55
A	WAS SK-2210.	12/9/54
ALT.	WAS	BY DATE

DR. RC 10-4-54 CH. AP.
 THE HILLIARD CORPORATION, ELMIRA, N. Y.
 UNLESS OTHERWISE SPECIFIED,
 FRACTIONAL MACHINE DIMENSIONS = ± 1/64
 DECIMAL MACHINE DIMENSIONS = ± .005

NAME: GEN. ASSEM 94 HILLIARD TWIFLEX AUTO. COUPLING
 MATERIAL:

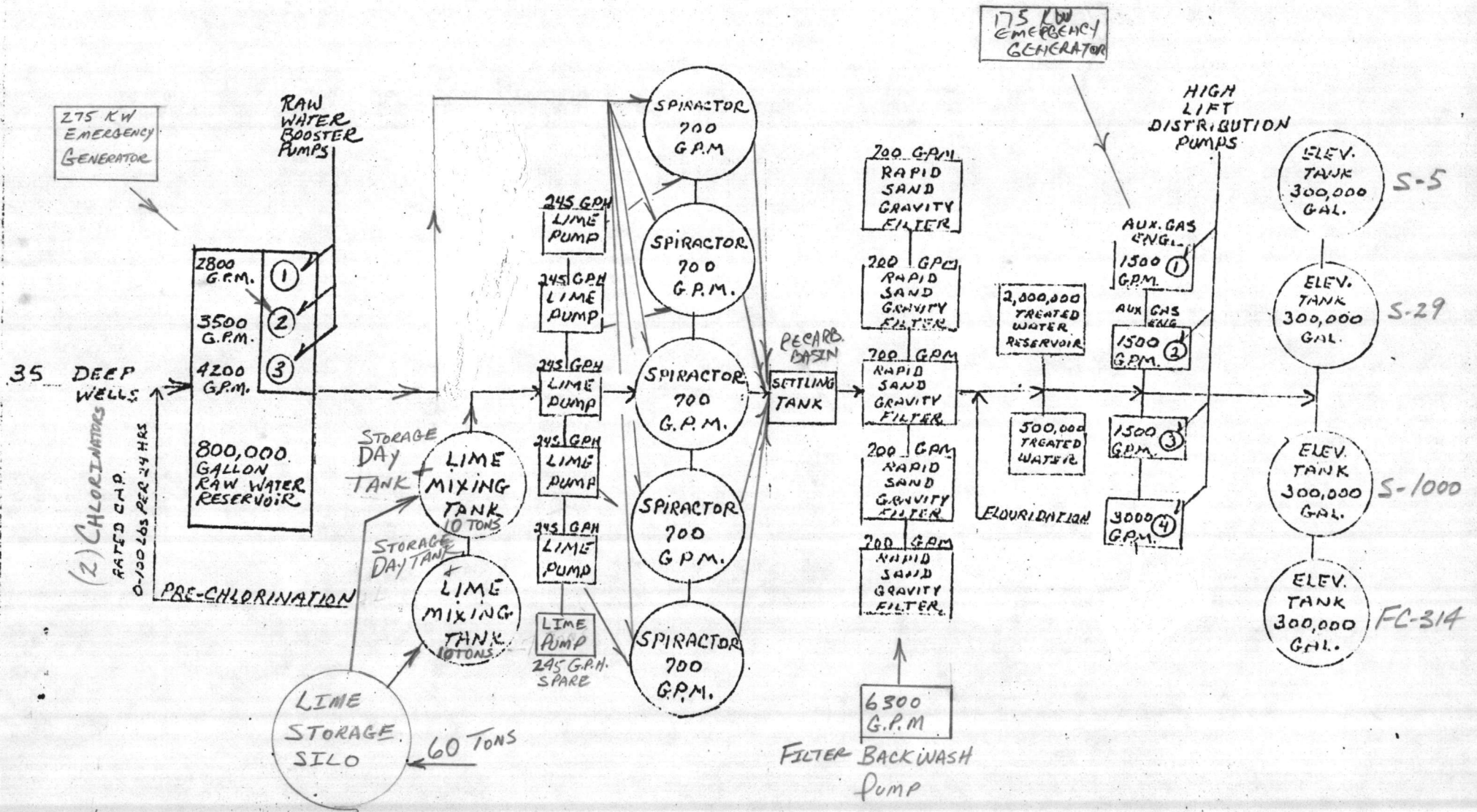
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APPROVED
FOR THE
DIRECTOR
OF THE
BUREAU OF
INVESTIGATION
U.S. DEPARTMENT OF JUSTICE
JUL 21 1950
JUL 21 1950
JUL 21 1950

HADNOT POINT BLDG. #20
 CAPACITY 5 M.G.D. WITH 35 DEEP WELLS
 LIME SOFTENING PLANT



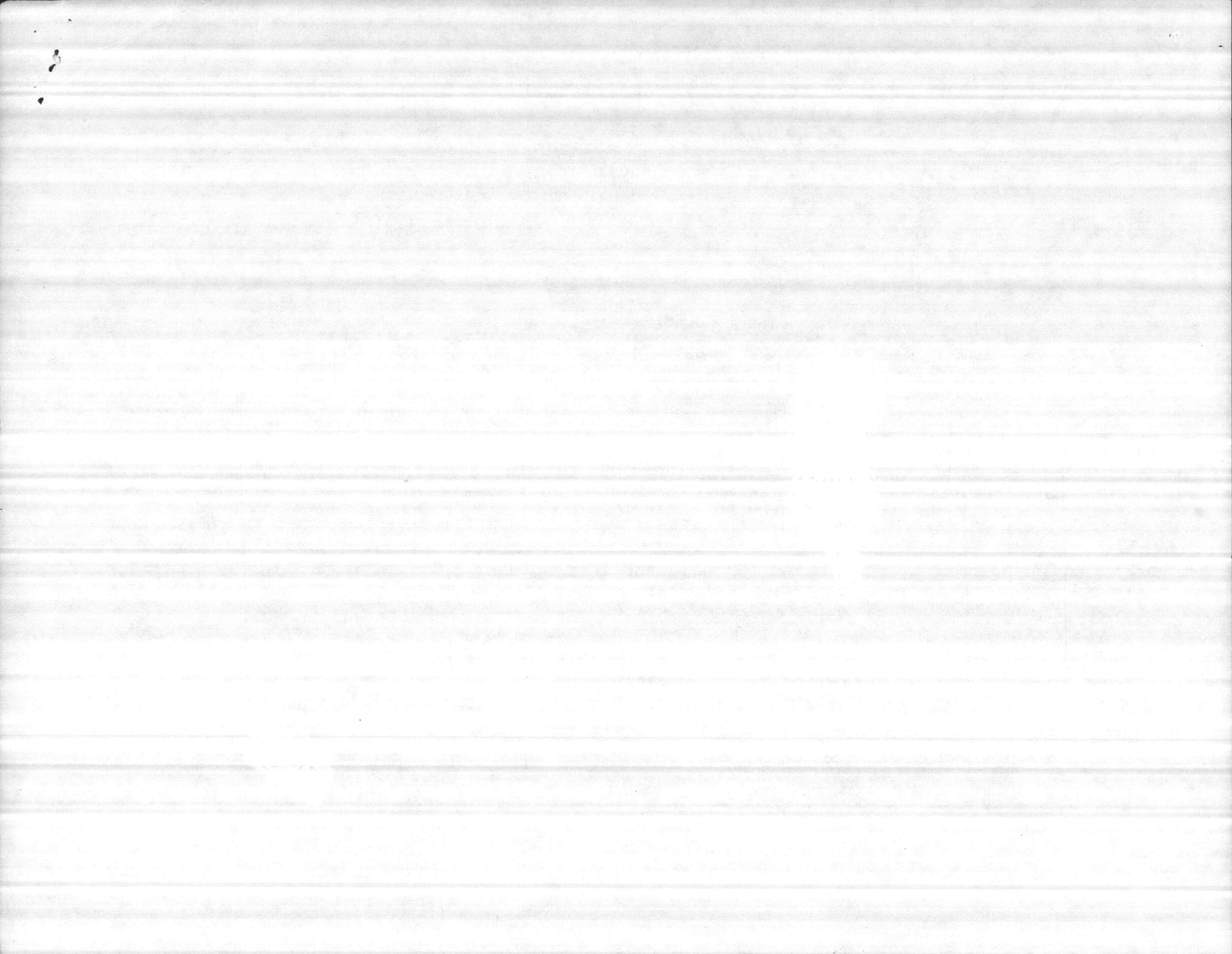


Table III C 3
WELL SURVEY SHEET

Sheet No. 1

DATE: 20 June 1984

WELL NO.	WELL TYPE	DRILLED DEPTH ft.	STATIC LEVEL (ft)	CASING SIZE (in.)	STAGES	DRAWDOWN AT RATED CAPACITY (feet)	RATED CAPACITY (gpm)	PRESENT CAPACITY (gpm)
HP-602	DRILLED	160'	30'	8"	5	15'	150	100
HP-603	DRILLED	195'	19'	8"	5	29'	250	175
HP-606	DRILLED	210'	17'	8"	6	35'	200	150
HP-608	DRILLED	126'	42'	8"	3	16'	250	150
HP-609	DRILLED	150'	11'	8"	4	33'	200	100
HP-610	DRILLED	190'	43'	8"	4	13'	250	175
HP-613	DRILLED	150'	15'	8"	6	5'	250	150
HP-616	DRILLED	100'	29'	8"	5	25'	250	100
HP-620	DRILLED	54'	19'	8"	4	7'	200	100
HP-632	DRILLED	74'	30'	8"	6	10'	250	150
HP-633	DRILLED	205'	25'	8"	3	23'	200	100
HP-634	DRILLED	225'	20'	8"	4	20'	130	50
HP-635	DRILLED	215'	15'	8"	4	25'	200	100
HP-636	DRILLED	227'	8'	8"	5	32'	200	100

WELL NO.	SPECIFIC CAPACITY (gpm/ft of drawdown)	PUMP HEAD (ft)	MOTOR H. P.	CHLORINATION (AMOUNT)	RESIDUAL CHLORINE (TYPE)	AUXILIARY POWER (TYPE)	DD FORM	
							710	636
HP-602	10.0	36'	5.0					
HP-603	8.8	86'	10.0			GASOLINE		
HP-606	5.0	2'	10.0					
HP-608	15.6	73'	.5			GASOLINE		
HP-609	6.1	85'	.5					
HP610	19.2	81'	.5			GASOLINE		
HP-613	50.0	90'	10.0			GASOLINE		
HP-616	10.0	85'	10.0					
HP-620	28.6	72'	7.5					
HP-633	25.0	155'	10.0					
HP-633	8.6	98'	7.5					
HP-634	6.5	84'	7.5					
HP-635	8.0	84'	7.5					
HP636	6.3	84'	7.5					

Wells to replace HP-601, HP-611, HP-612, HP-614 are on contract to be completed June 84
Well to replace HP-615 has been requested but not on contract at present time.
Well HP-610 is on contract to replace screend & pump is to be completed June 84.

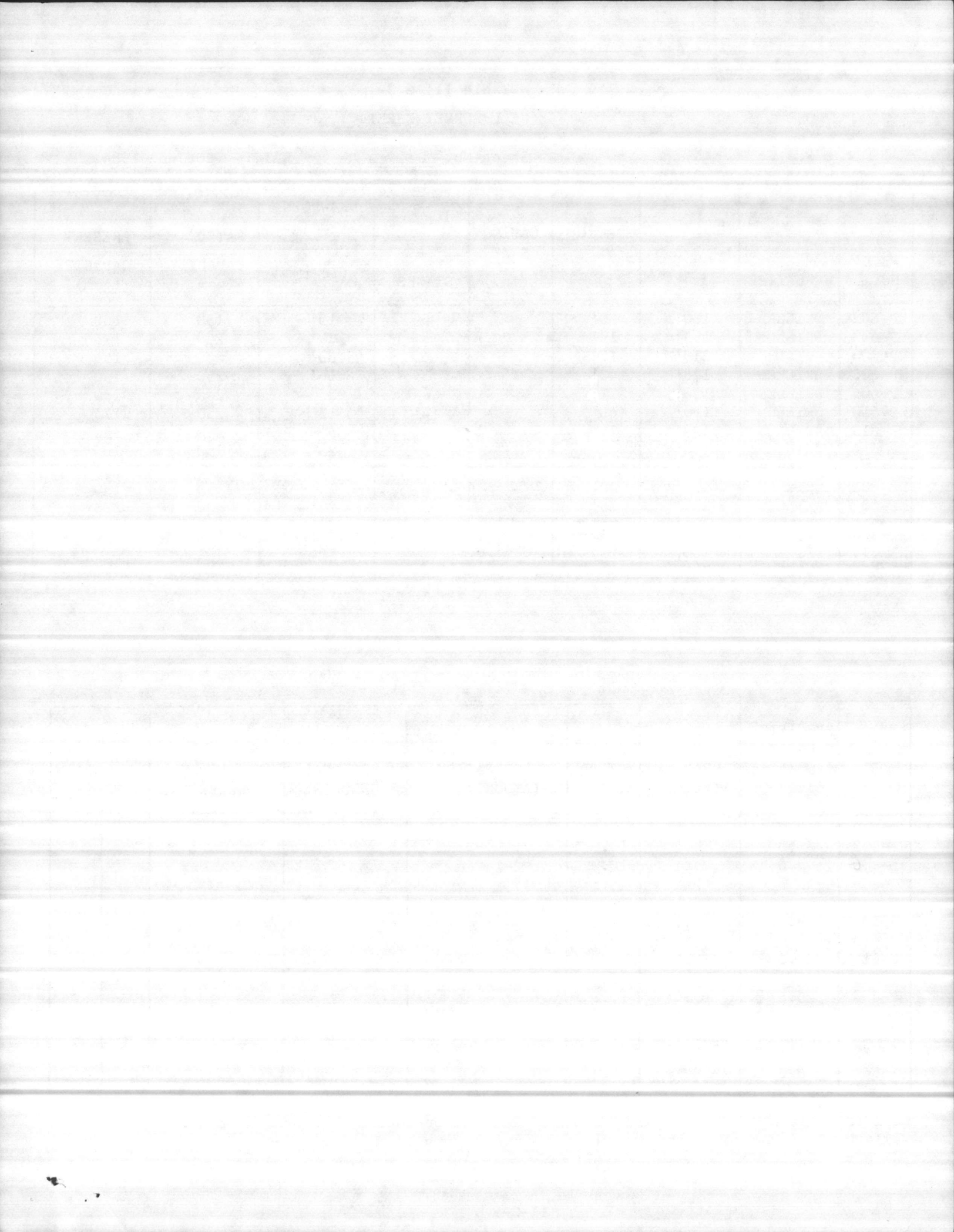


Table III C 3
WELL SURVEY SHEET

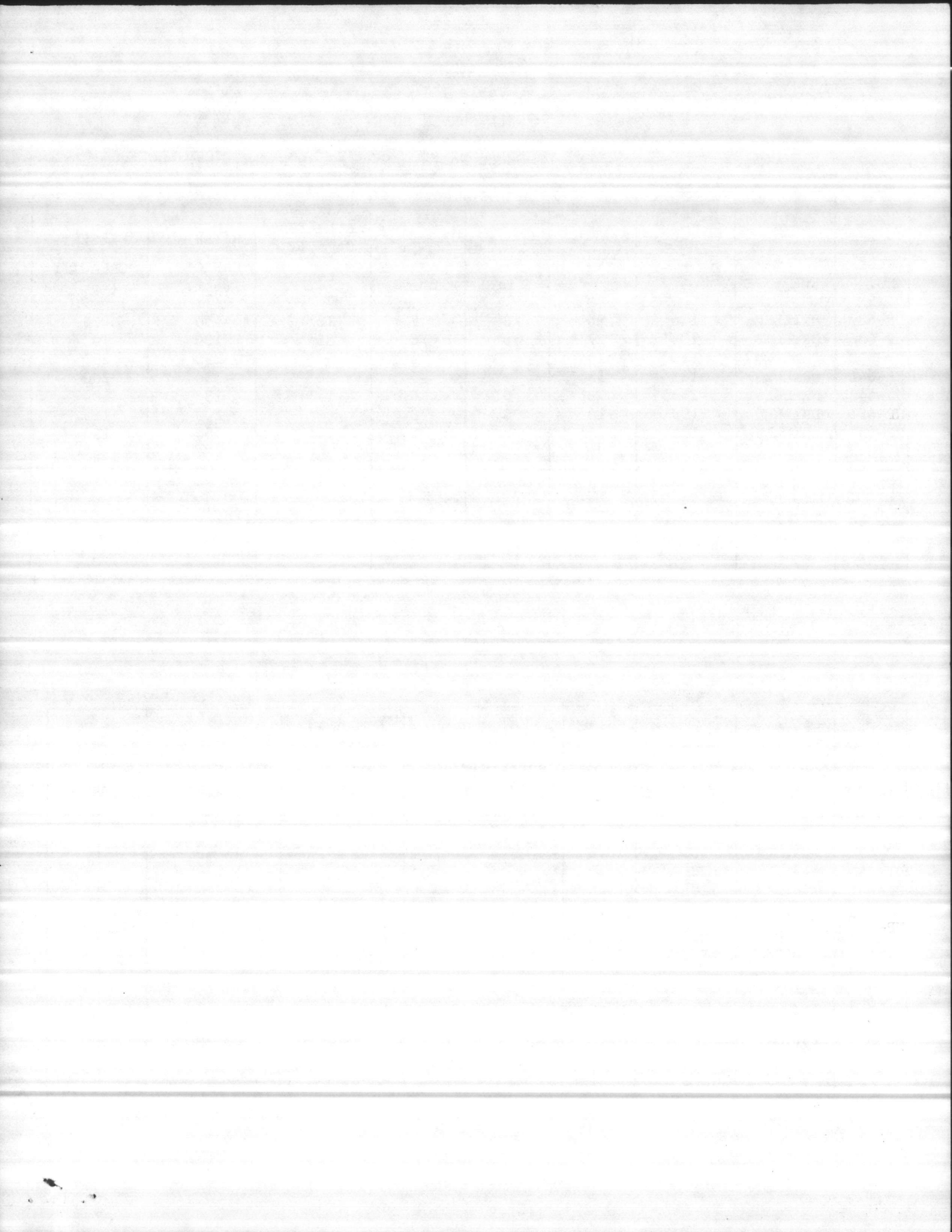
Sheet No. 11 cont'd

DATE: 20 June 1984

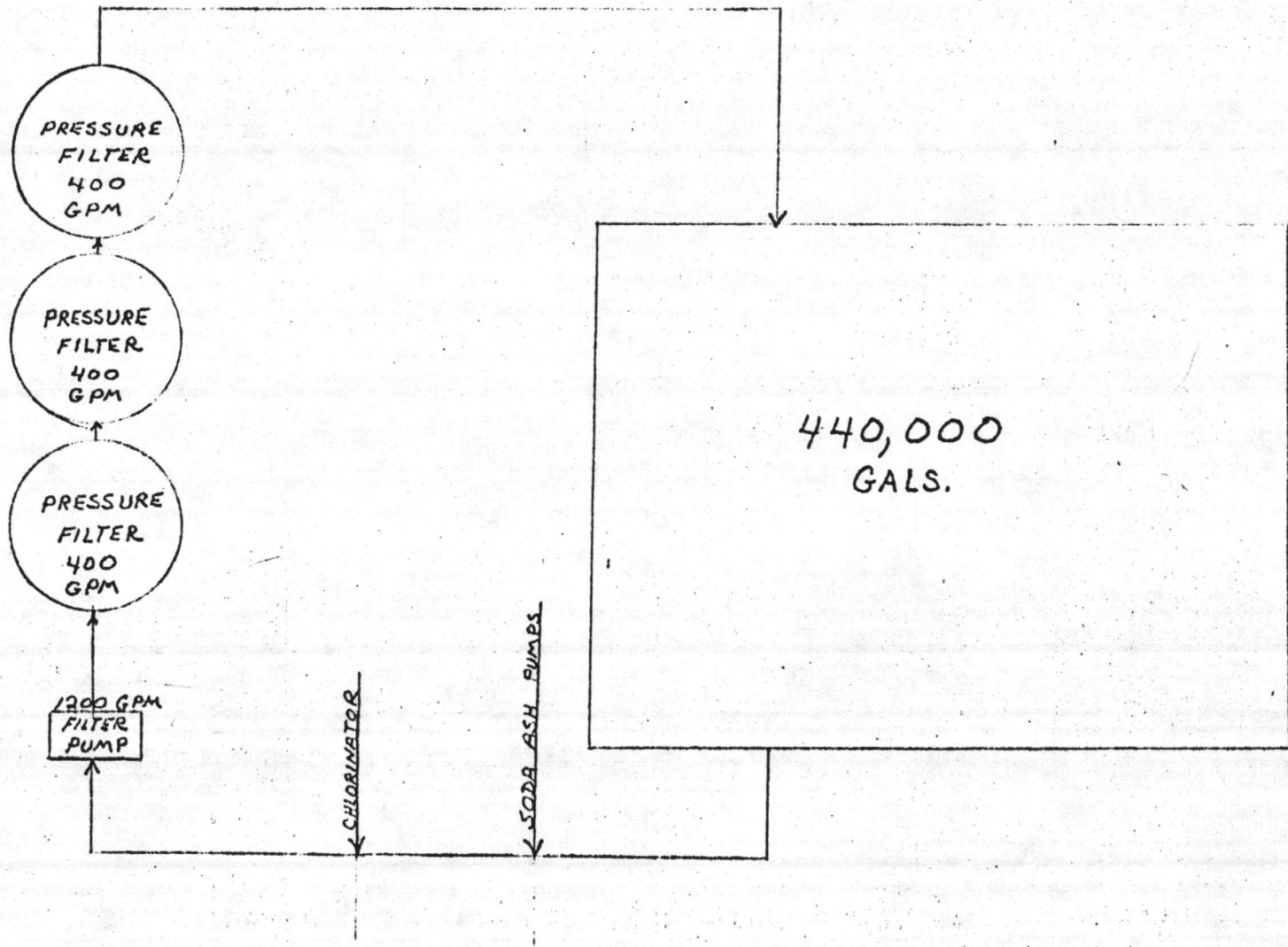
WELL NO.	WELL TYPE	DRILLED DEPTH ft.	STATIC LEVEL (ft)	CASING SIZE (in.)	STAGES	DRAWDOWN AT RATED CAPACITY (feet)	RATED CAPACITY (gpm)	PRESENT CAPACITY (gpm)
HP-637	DRILLED	146'	26'	8"	7	16'	150	75
HP-638	DRILLED	136'	27'	8"	8	35'	185	100
HP-640	DRILLED	180'	10'	8"	6	50'	290	230
HP-641	DRILLED	182'	58'	8"	5	26'	300	200
HP-642	DRILLED	206'	33'	8"	8	12'	136	100
HP-651	DRILLED	199'	14'	8"	8	60'	200	125
HP-652	DRILLED	183'	22'	8"	7	14'	200	150
HP-653								
HP-654								
HP-655								
LCH-M2	DRILLED	150'	23'	8"	6	19'	287	160

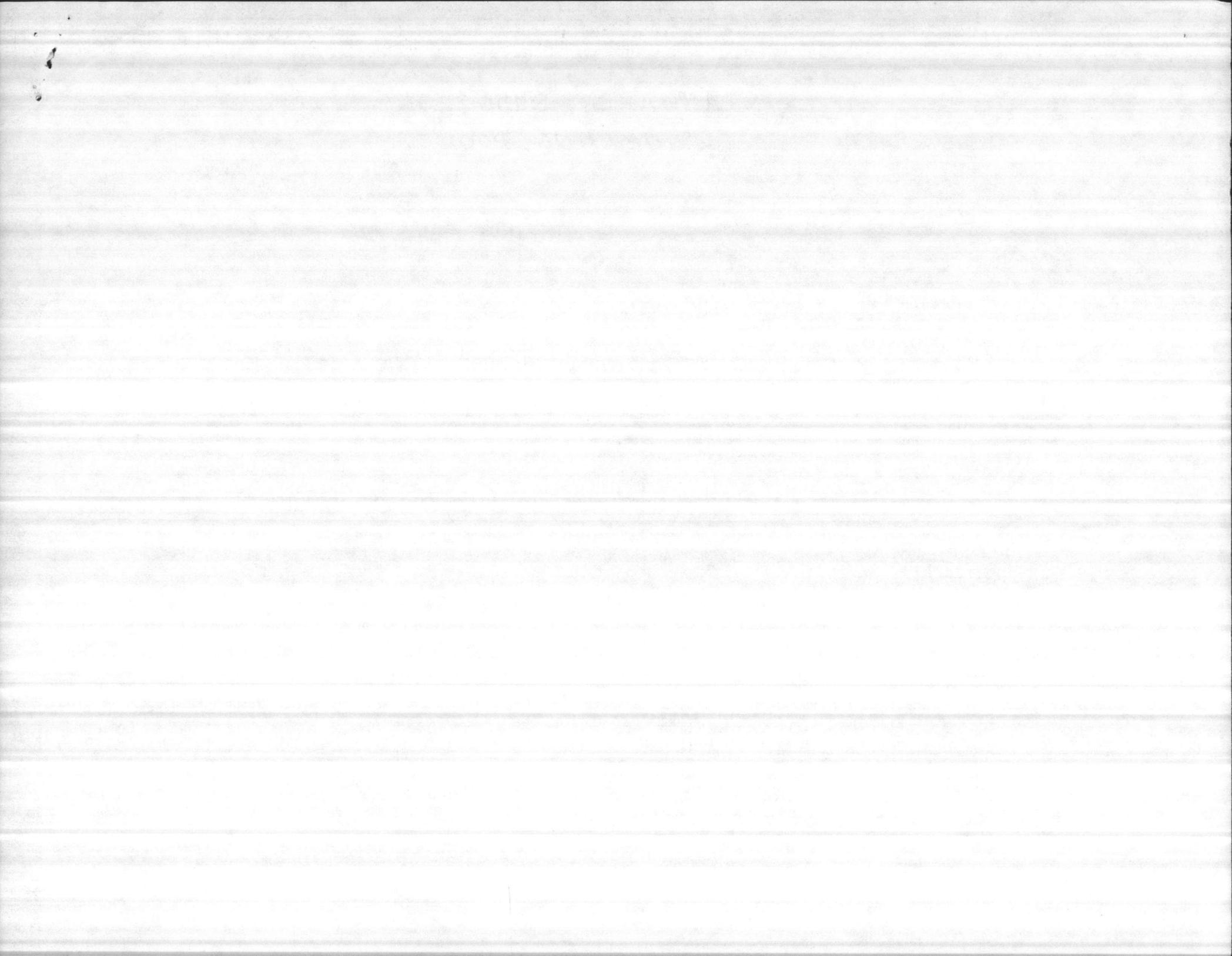
WELL NO.	SPECIFIC CAPACITY (gpm/ft of drawdown)	PUMP HEAD (ft)	MOTOR H. P.	CHLORINATION (AMOUNT)	RESIDUAL CHLORINE (TYPE)	AUXILIARY POWER (TYPE)	DD FORM	
							710	636
HP-637	9.3	130'	10.0					
HP-638	5.3	135'	10.0					
HP-640	5.8	220'	20.0			GASOLINE		
HP-641	6.5	105'	15.0					
HP-642	11.3	110'	7.5					
HP-651	3.3	226'	20.0			GASOLINE		
HP-652	14.3	220'	15.0					
HP-653								
HP-654								
HP-655								
LCH-M2	15.1	220'	20.0			GASOLINE		

Wells to replace HP-621, HP-626, HP-627, HP-639 is on contract to be completed June 84.
Wells LCH 4006 is on contract to be replaced should be completed June 84.



AREA 2 BLDG. 236
SWIMMING POOL





AREA 5 BLDG. 540
SWIMMING POOL

