

**VALUABLE**

RETURN TO  
PUBLIC WORKS  
OFFICE  
CAMP LEJEUNE  
NORTH CAROLINA

SUBJECT HIGH WATER CHECK

FIELD PARTY  
DENNIS IN CHARGE  
INSTRUMENT \_\_\_\_\_  
NOTES \_\_\_\_\_  
TAPE READ \_\_\_\_\_  
TAPE OR ROD \_\_\_\_\_  
TAPE OR ROD \_\_\_\_\_  
INSTRUMENT NO. \_\_\_\_\_  
TAPE NO. \_\_\_\_\_

WEATHER  
CLEAR \_\_\_\_\_ SNOW \_\_\_\_\_  
CLOUDY \_\_\_\_\_ HOT \_\_\_\_\_  
WINDY \_\_\_\_\_ MODERATE \_\_\_\_\_  
RAIN \_\_\_\_\_ COLD \_\_\_\_\_  
FAIR \_\_\_\_\_ FOG \_\_\_\_\_  
FIGURED BY \_\_\_\_\_  
NOTES CHECKED BY \_\_\_\_\_  
PLOTTED BY \_\_\_\_\_

FILE No. \_\_\_\_\_  
FLDR. No. \_\_\_\_\_  
SHEET 10 of 1  
DATE 10-6-55

Quad. No. \_\_\_\_\_

STATION	DIST.	ANGLE " "	+	H. I. BEARING	VER. ANG. DIFF.	ELEVATION	
B.M.			3 58	21.41		17.83	? U.S.M.C. MON # 30
T.P.			1 39	19.03	3 77	17.64	
T.P.			3 20	18.78	3 45	15.58	
T.P.			8 95	7.93	11 80	6.98	
B.M.					3 14	4.79	ON END CON. BLOCK WALL NEAR DR. COX'S HOME
B.M.			5 31	7.88 7.50	.	2.57 <del>2.14</del>	U.S.M.C. 371
				4 0		3.5	
				4 0		3.9	
				4 1		3.8	
B.M.			<del>5.28</del>			2.28	<del>MON. U.S.M.C. 372</del>
B.M.			7.56			2.19	<del>MON. U.S.M.C. # 371</del>
				5.37			

ALL SHOTS  
PROOF READ.



**VALUABLE**

SUBJECT \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

RETURN TO  
 PUBLIC WORKS  
 OFFICE  
 CAMP LEJEUNE  
 NORTH CAROLINA

FIELD PARTY  
DENNIS IN CHARGE  
 \_\_\_\_\_ INSTRUMENT  
 \_\_\_\_\_ NOTES  
 \_\_\_\_\_ TAPE READ  
 \_\_\_\_\_ TAPE OR ROD  
 \_\_\_\_\_ TAPE OR ROD  
 \_\_\_\_\_ INSTRUMENT No.  
 \_\_\_\_\_ TAPE No.

WEATHER  
 CLEAR  
 CLOUDY  
 WINDY  
 RAIN  
 FAIR  
 SNOW  
 HOT  
 MODERATE  
 COLD  
 FOG  
 FIGURED BY \_\_\_\_\_  
 NOTES CHECKED BY \_\_\_\_\_  
 PLOTTED BY \_\_\_\_\_

FILE No. \_\_\_\_\_  
 FLDR. No. \_\_\_\_\_  
 SHEET 1 of 1  
 DATE 11-29 1955

Quad. No. \_\_\_\_\_

STATION	DIST.	ANGLE ° ' "	+	H. I. BEARING	VER. ANG. DIFF.	ELEVATION	
B.M.			5 49	8.06		2 57	MON. # 371
			5 45	8.08	5 43	2.63	MON. # 372
			2.20	8 13	2.15	5.93	MON. # 373
					5.56	2.57	MON. # 371

RETURN TO  
FIELD WORK  
STATION  
CAMP 1000  
N. W. 1000

STATION  
DATE

ANGLE

1. RING  
2. DIST

LAND BY  
ELEVATION

FIELD PART

IN ORDER

DATE

NAME

NO.

DESCRIPTION

DATE

LOCATION

NO.

DESCRIPTION

DATE

LOCATION

NO.

DESCRIPTION

DATE

WEATHER

WIND

TEMP.

HUMIDITY

MOON

STAR

PLANET

OTHER

FILE NO.

DATE

TIME

PLACE

PERSON

OBJECT

REMARKS

OTHER

**VALUABLE**

SUBJECT High Water Elaus

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RETURN TO  
PUBLIC WORKS  
OFFICE  
CAMP LEJEUNE  
NORTH CAROLINA

FIELD PARTY  
Morton IN CHARGE  
INSTRUMENT \_\_\_\_\_  
NOTES \_\_\_\_\_  
TAPE READ \_\_\_\_\_  
TAPE OR ROD \_\_\_\_\_  
TAPE OR ROD \_\_\_\_\_  
INSTRUMENT NO. \_\_\_\_\_  
TAPE NO. \_\_\_\_\_

WEATHER  
CLEAR \_\_\_\_\_ SNOW \_\_\_\_\_  
CLOUDY \_\_\_\_\_ HOT \_\_\_\_\_  
WINDY \_\_\_\_\_ MODERATE \_\_\_\_\_  
RAIN \_\_\_\_\_ COLD \_\_\_\_\_  
FAIR \_\_\_\_\_ FOG \_\_\_\_\_

FIGURED BY \_\_\_\_\_ SHEET 1 of  
NOTES CHECKED BY \_\_\_\_\_  
PLOTTED BY \_\_\_\_\_ DATE 8/30 1955

FILE No. \_\_\_\_\_  
FLDR. No. \_\_\_\_\_  
Quad. No. \_\_\_\_\_

STATION	DIST.	ANGLE ' "	+	H. I. BEARING	VER. ANG. DIFF.	ELEVATION
B.M.			2.41	25.30		22.89
TP					9.78	15.52
			2.52	18.04		
①					12.8	5.2 ✓
②					12.7	5.3
③					12.9	5.1
B.M.			3.06	8.99		5.93
①					4.5	4.5
②					4.6	4.4
③					4.7	4.3
B.M.			1.10	22.28		21.18
①					17.3	5.0
②					17.2	5.1 ✓
③					16.9	5.3

NOTE: All shots (Proof Read)  
Bolt in center disposable plant

High water mark at dump

" " " " "

" " " " "

U.S. M.C. Mon # 373

High water mark Hospital point

" " " " "

" " " " "

Nail Int. Charles St. & River Drive

High water marks Paradise point B.O.Q. End  
Charles St.

" " " " "

" " " " "

AVAILABLE

REPORT TO  
HONORABLE  
OFFICE  
GRAND JURY  
CITY OF

STATION

DATE

BY

WEATHER  
TEMPERATURE  
WIND  
HUMIDITY  
BAROMETER  
MOON  
PHASE  
DIRECTION  
SPEED  
STATE  
CLOUDS  
AMOUNT  
COLOR  
DIRECTION  
SPEED  
STATE  
REMARKS

IN BAR  
ON  
AT  
BY  
DATE  
TIME  
PLACE  
OFFICE  
STATE

DATE

TIME



**VALUABLE**

SUBJECT \_\_\_\_\_

RETURN TO  
PUBLIC WORKS  
OFFICE  
CAMP LEJEUNE  
NORTH CAROLINA

**FIELD PARTY**

\_\_\_\_\_  
IN CHARGE  
\_\_\_\_\_  
INSTRUMENT  
\_\_\_\_\_  
NOTES  
\_\_\_\_\_  
TAPE READ  
\_\_\_\_\_  
TAPE OR ROD  
\_\_\_\_\_  
TAPE OR ROD  
\_\_\_\_\_  
INSTRUMENT NO.  
\_\_\_\_\_  
TAPE NO.

**WEATHER**

CLEAR  
CLOUDY  
WINDY  
RAIN  
FAIR

SNOW  
HOT  
MODERATE  
COLD  
FOG

FILE No. \_\_\_\_\_

FLDR. No. \_\_\_\_\_

FIGURED BY \_\_\_\_\_ SHEET \_\_\_\_\_

NOTES CHECKED BY \_\_\_\_\_

PLOTTED BY \_\_\_\_\_ DATE \_\_\_\_\_ 19\_\_

Quad. No. \_\_\_\_\_

STATION	DIST.	ANGLE ° ' "	+	H. I. BEARING	VER. ANG. DIFF.	ELEVATION	
B.M.				3.83 8.62		4.79	S. E. Ende Cinder Block wall with concrete Top Back of Doctor Cox's Home
①					3.5	5.1	High Water mark in Back Dr. Cox Home
②					3.5	5.1	" " " " " " " "
③					3.6	5.0	" " " " " " " "
B.M.				2.88 11.94		9.06	Cor. N. W. Wheel guard Sneads Ferry Bridge
①					9.0	2.9	High Water mark <sup>at</sup> Sneads Ferry Bridge
②					9.0	2.9	" " " " " " " "
③					8.8	3.1	" " " " " " " "
B.M.				2.67 15.71		13.04	<sup>#15</sup> Mon East End parking Area Wile Hammock Bay
①					11.4	4.3	
②					11.7	4.0	✓
③					11.7	4.0	

STATE OF NORTH CAROLINA  
COUNTY OF \_\_\_\_\_  
I, \_\_\_\_\_  
Judge of the Superior Court for and in said County, do hereby certify that \_\_\_\_\_  
is the true and correct copy of the \_\_\_\_\_  
of \_\_\_\_\_  
dated \_\_\_\_\_  
19\_\_\_\_.

WITNESSED my hand and the seal of said Court at \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_  
19\_\_\_\_.

ANGEL \_\_\_\_\_  
Clerk of the Superior Court

NOTARY PUBLIC  
STATE OF NORTH CAROLINA

LOCATION \_\_\_\_\_  
DATE \_\_\_\_\_

BY PARTY \_\_\_\_\_  
I, \_\_\_\_\_  
do hereby certify that \_\_\_\_\_  
is the true and correct copy of the \_\_\_\_\_  
of \_\_\_\_\_  
dated \_\_\_\_\_  
19\_\_\_\_.

WEATHER \_\_\_\_\_  
TEMPERATURE \_\_\_\_\_  
WIND \_\_\_\_\_  
HUMIDITY \_\_\_\_\_  
SEA \_\_\_\_\_  
VISIBILITY \_\_\_\_\_  
NOTES \_\_\_\_\_  
REMARKS \_\_\_\_\_

DATE \_\_\_\_\_  
TIME \_\_\_\_\_  
PLACE \_\_\_\_\_  
DARKNESS \_\_\_\_\_

**VALUABLE**

RETURN TO  
PUBLIC WORKS  
OFFICE  
CAMP LEJEUNE  
NORTH CAROLINA

SUBJECT HIGH TIDE READING  
NORTHEAST CREEK BACK  
BLDG.#  
Camp Generating Plant

FIELD PARTY  
DENNIS IN CHARGE  
\_\_\_\_ INSTRUMENT  
\_\_\_\_ NOTES  
\_\_\_\_ TAPE READ  
\_\_\_\_ TAPE OR ROD  
\_\_\_\_ TAPE OR ROD  
\_\_\_\_ INSTRUMENT NO.  
\_\_\_\_ TAPE NO.

WEATHER  
CLEAR \_\_\_\_\_ SNOW \_\_\_\_\_  
CLOUDY \_\_\_\_\_ HOT \_\_\_\_\_  
WINDY \_\_\_\_\_ MODERATE \_\_\_\_\_  
RAIN \_\_\_\_\_ COLD \_\_\_\_\_  
FAIR \_\_\_\_\_ FOG \_\_\_\_\_  
FIGURED BY \_\_\_\_\_  
NOTES CHECKED BY \_\_\_\_\_  
PLOTTED BY \_\_\_\_\_

FILE No. \_\_\_\_\_  
FLDR. No. \_\_\_\_\_  
SHEET 1 of 1  
DATE 8-25 1955

Quad. No. \_\_\_\_\_

STATION	DIST.	ANGLE ° ' "	+	H. I. BEARING	VER: ANG. DIFF.	ELEVATION	
B.m.				402 10 00		5 98 ?	FL. BLDG.# 783
						5 8 4.2	
						5 6 4.4	
						5.1 4.9	} 4.9
						5.1 4.9	
				<del>402</del> 402		5 98	HIGH TIDE READING BACK CAMP GEN. PLANT. NORTHEAST CREEK near P.R. & Hwy. Bridge.
<p>Hurricane Aug 17 Tide + Heavy Rainfall Approx. 22 inches Rain.</p>							



~~A Unit~~

Rate of work, equivalent to  
550 foot-pounds per Sec.

# High Water Marks

~~Wilson Bay~~  
Paradise Point - B.O.Q. Area. ✓

Hospital Point Need Elev. on Monument # 373 ?

Sewage Disposal Plant ✓

Sneads Ferry Bridge ? TOO LOW

Mile Hammock Bay ✓

Oustow Beach Bridge ✓

Wilson Bay Need elev. on Temp. B.M. at Dr. Cox's.

③ ✓

② ✓

① ✓

⑤ ✓

⑥ ✓

⑦ ✓

④ ✓

Meet you at Earth Road entrance to L-5 Range  
near Rifle Range Area at 1:00 P.M.

**VALUABLE**

SUBJECT

Location

Test Well T-1, East of Piney Green  
on Hwy # 24Test Well T-2 in Industrial Area  
East of Sneads Ferry RoadRETURN TO  
PUBLIC WORKS  
OFFICE  
CAMP LEJEUNE  
NORTH CAROLINA

FIELD PARTY

Dillon

IN CHARGE

INSTRUMENT

NOTES

TAPE READ

TAPE OR ROD

TAPE OR ROD

INSTRUMENT No.

TAPE No.

WEATHER

CLEAR  
CLOUDY  
WINDY  
RAIN  
FAIRSNOW  
HOT  
MODERATE  
COLD  
FOG

FIGURED BY

NOTES CHECKED BY

PLOTTED BY

FILE No.

FLDR. No.

SHEET

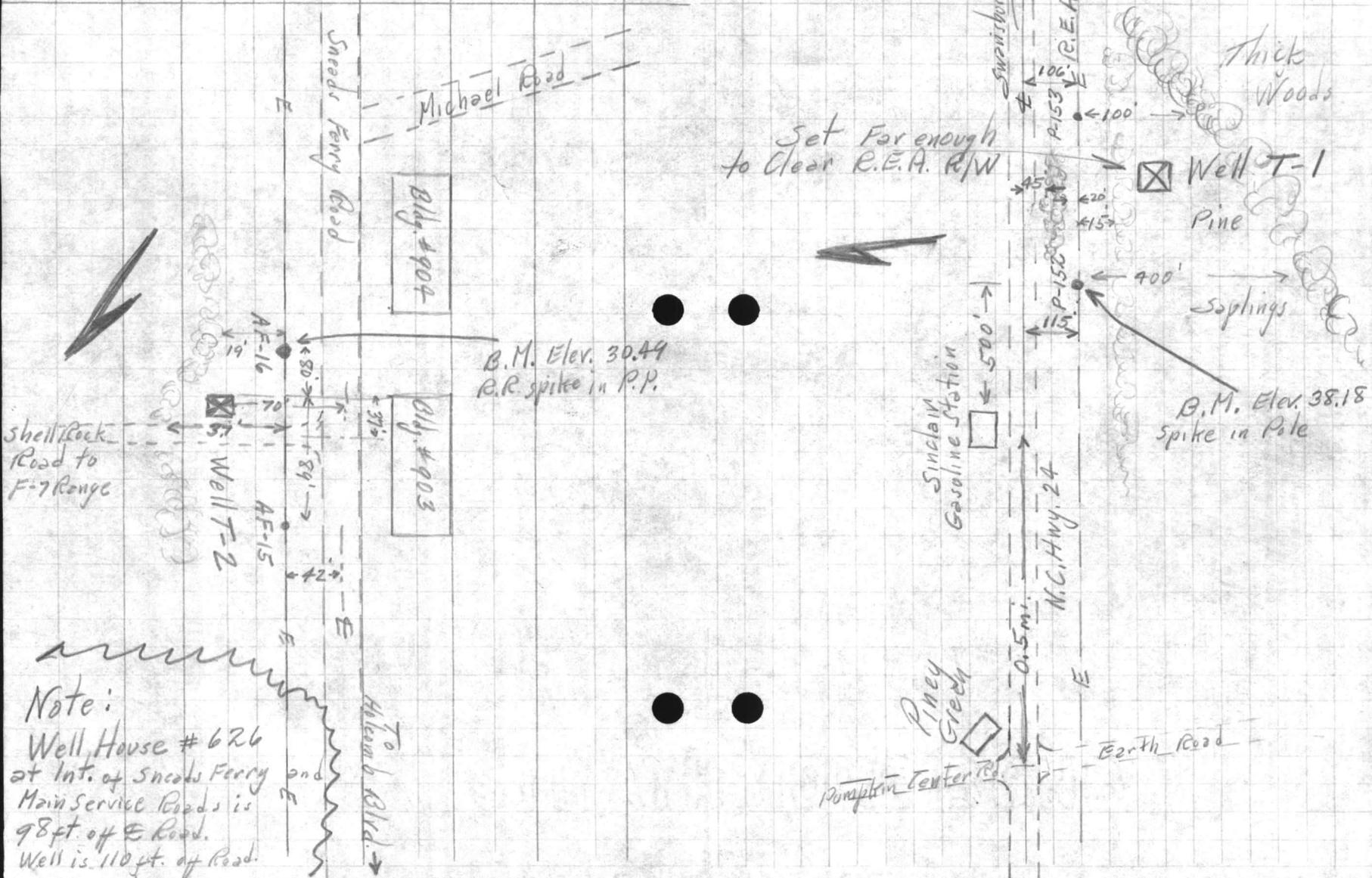
# 1 of 15

DATE

11/6/1958

Quad. No.

STATION	DIST.	ANGLE	H. I.	VER. ANG.	ELEVATION
		° ' "	BEARING	DIFF.	



DATE

TIME TO  
WORK  
JOB  
LEAVE  
CASH

STATE

DIST

ANGLE

BEARING

DEG

FEET

FIELD PARTY

IN CHARGE

INSTRUMENT

NOTES

TAPED READ

TAPED OR BOB

TAPED OR BOB

INSTRUMENT NO.

TAPED NO.

WEATHER

WIND

TEMP

MOON

STAR

PLANET

DATE

TIME

PLACE

STATE

DIST

ANGLE

BEARING

DEG

FEET

INSTRUMENT NO.

TAPED NO.

**VALUABLE**

SUBJECT

Location  
 Test Wells T-3 and T-4  
 on Old Trailer Camp Road, east  
 of Open Storage Area.

RETURN TO  
 PUBLIC WORKS  
 OFFICE  
 CAMP LEJEUNE  
 NORTH CAROLINA

FIELD PARTY

Dillon IN CHARGE

INSTRUMENT

NOTES

TAPE READ

TAPE OR ROD

TAPE OR ROD

INSTRUMENT NO.

TAPE NO.

WEATHER

CLEAR  
 CLOUDY  
 WINDY  
 RAIN  
 FAIR

SNOW  
 HOT  
 MODERATE  
 COLD  
 FOG

FIGURED BY

NOTES CHECKED BY

PLOTTED BY

FILE No.

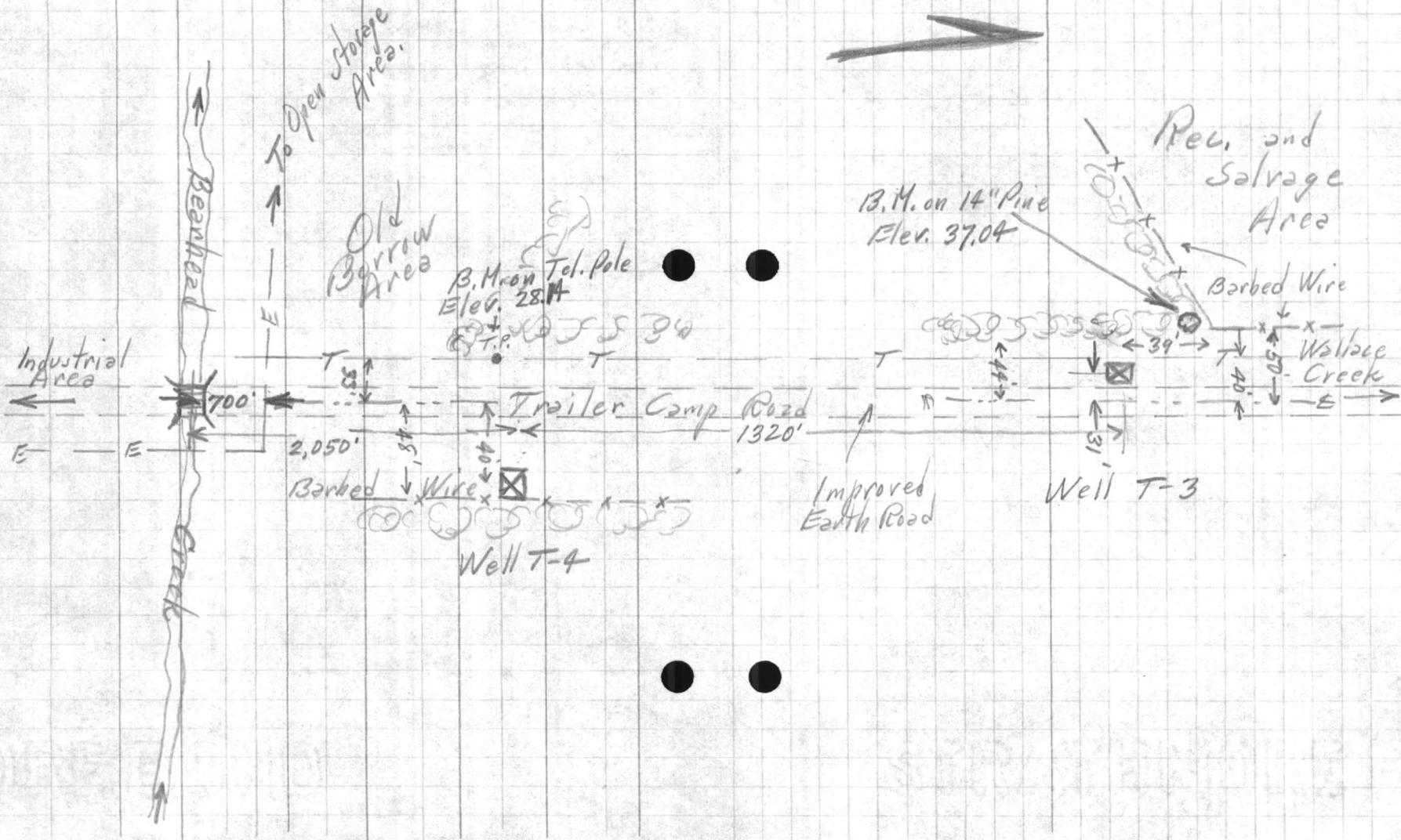
FLDR. No.

SHEET

DATE

Quad. No.

STATION	DIST.	ANGLE ° ' "	+	H. I. BEARING	VER. ANG. DIFF.	ELEVATION
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VALUABLE

PROPERTY  
PUBLIC WORKS  
OFFICE  
SAINT LOUIS  
MONTH ENDING

STATION 1 DIST. 2

M. R. OR AHS  
GEARING DISE

EVALUATION

Tape No. 1000

INSTRUMENT No.

Tape of Rod

Tape of Rod

NOTES

LAST INSTRUMENT

IN CHARGE

JOHN PARKY

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

VALUABLE

SUBJECT

Location Test Well T-5  
in Old Trailer Park.  
Well T-6 at F-12 Range

RETURN TO  
PUBLIC WORKS  
OFFICE  
CAMP LEJEUNE  
NORTH CAROLINA

FIELD PARTY

Dillon IN CHARGE  
INSTRUMENT  
NOTES  
TAPE READ  
TAPE OR ROD  
TAPE OR ROD  
INSTRUMENT No.  
TAPE No.

WEATHER

CLEAR SNOW  
CLOUDY HOT  
WINDY MODERATE  
RAIN COLD  
FAIR FOG  
FIGURED BY  
NOTES CHECKED BY  
PLOTTED BY

FILE No.

FLDR. No.

SHEET

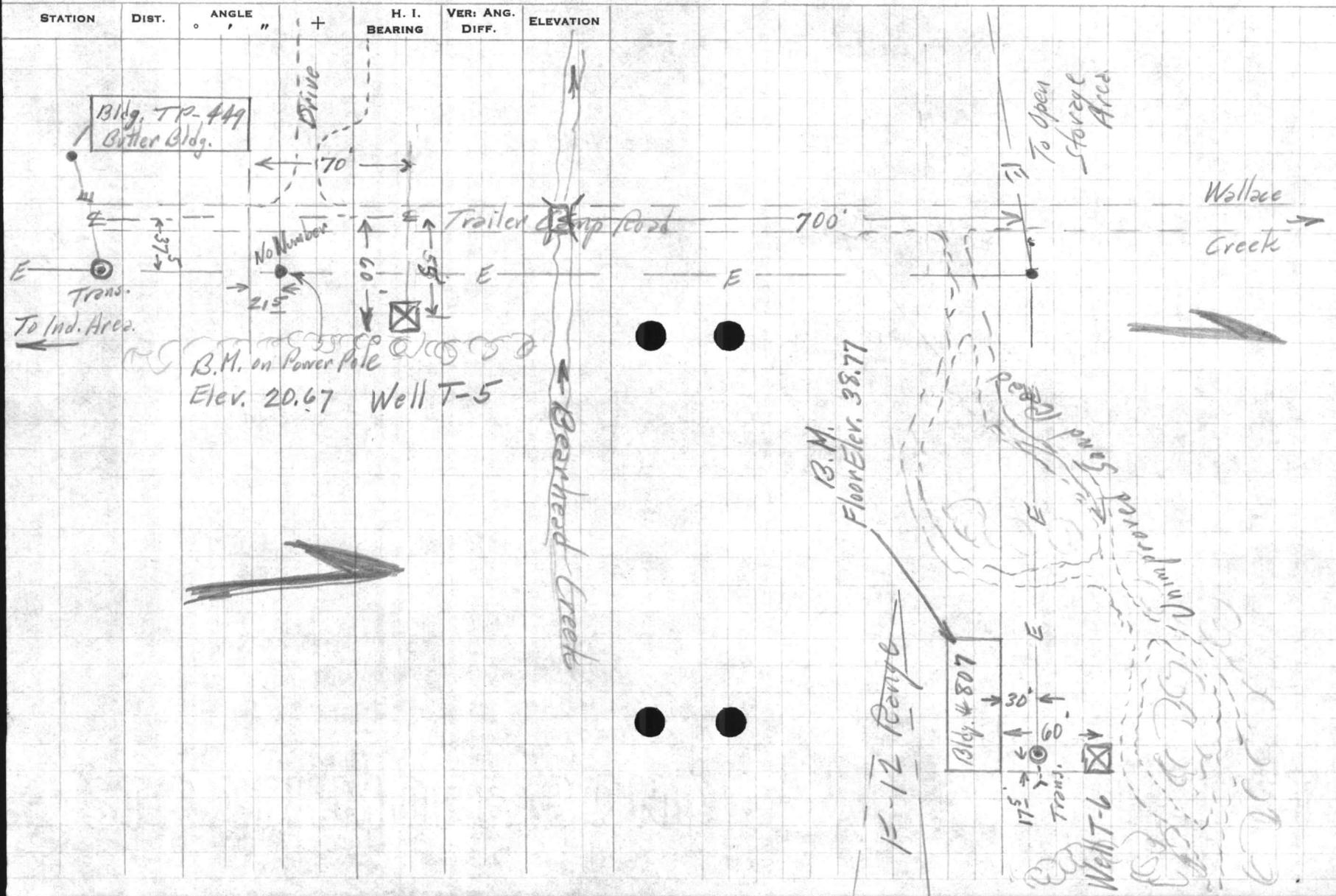
# 31+15

DATE

11/6/1958

Quad. No.

STATION DIST. ANGLE ° ' " + H. I. BEARING VER. ANG. DIFF. ELEVATION



AVAILABLE

RETURN TO  
FBI WORKS  
OFFICE  
CAMP LEONARD  
NORTH CAROLINA

STATION DIST

DIR. BEA. AND

EVALUATION

INSTRUMENT NO.  
TAP NO.

TAP OR ROD  
TAP OR ROD

INSTRUMENT  
NO. TAP

IN CHARGE  
GROUP

QUAL. No.

PROTECTED BY

PROTECTED BY

PROTECTED BY

FILE NO.

Handwritten notes and markings, including a grid with numbers and various scribbles.

**VALUABLE**

SUBJECT

Location Test Well T-7

Holcomb Blvd., North of  
Wallace Creek

RETURN TO  
PUBLIC WORKS  
OFFICE  
CAMP LEJEUNE  
NORTH CAROLINA

FIELD PARTY

*Pillon*

IN CHARGE

INSTRUMENT

NOTES

TAPE READ

TAPE OR ROD

TAPE OR ROD

INSTRUMENT NO.

TAPE NO.

WEATHER

CLEAR  
CLOUDY  
WINDY  
RAIN  
FAIR

SNOW  
HOT  
MODERATE  
COLD  
FOG

FIGURED BY

NOTES CHECKED BY

PLOTTED BY

FILE No. \_\_\_\_\_

FLDR. No. \_\_\_\_\_

SHEET

#4 of 15

DATE

11/6/1958

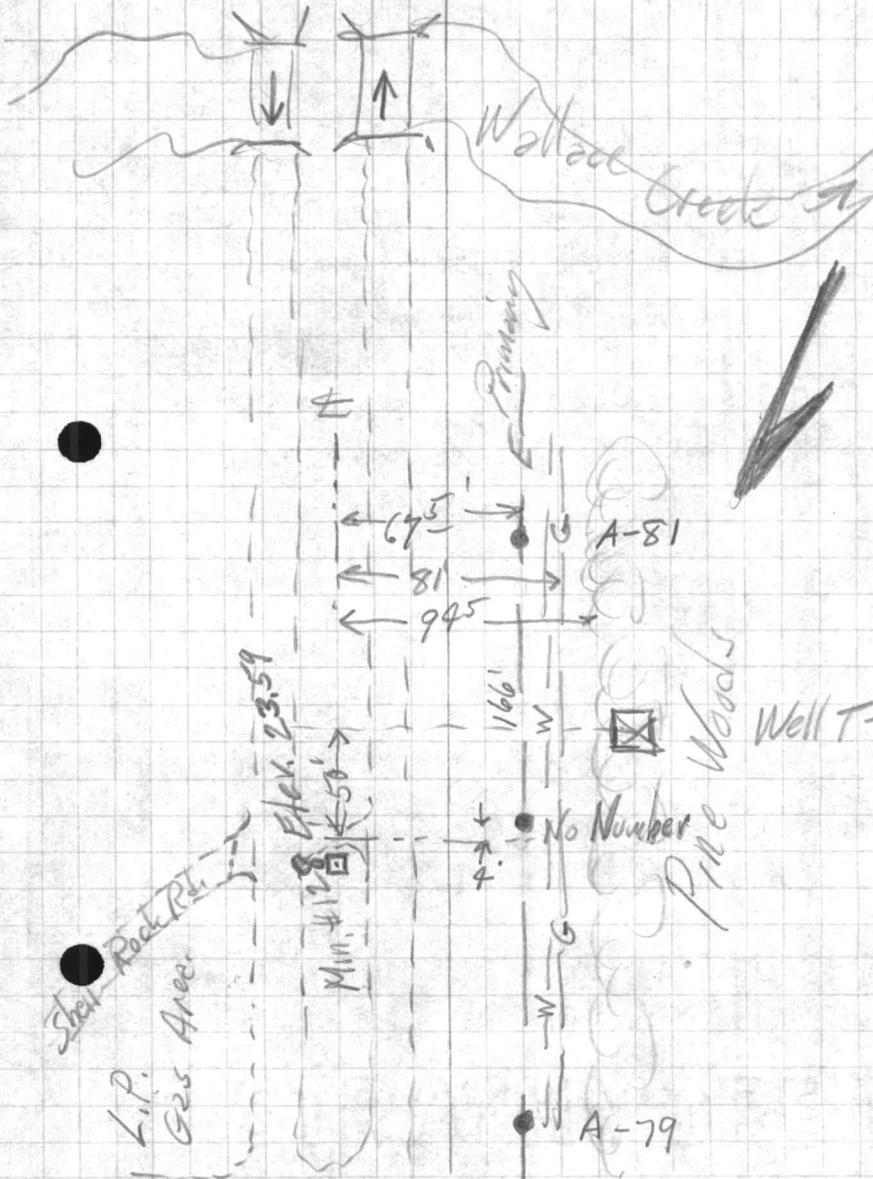
Quad. No. \_\_\_\_\_

STATION	DIST.	ANGLE ° ' "	+	H. I. BEARING	VER: ANG. DIFF.	ELEVATION
---------	-------	----------------	---	------------------	--------------------	-----------

28  
31

52  
37  
26

Well #604 85' from E Blvd.  
 Well #610 88' from E Blvd.  
 Well #613 96.5' from E Blvd.  
 Well #616 87.5' from E Blvd.



Shell Rock Pt.  
Gas Area

Min. #128 Elev. 23.59

166'

47'

□

Pine Woods

Well T-7

A-79

AVAILABLE

RETURN TO  
PUB. TO WORK  
FOR OTHER  
SAMP. ASSEMBLY  
SOUTH CAROLINA

STATION 1 DIST.

ANGLE

BEARING

DIST.

STATION

TAP NO.

THREAT NO.

TAP OR HOOD

TAP OR HOOD

ROAD

INSTRUMENT

NO. OF TAP

DATE

WIND

TEMPERATURE

WIND DIRECTION

WIND VELOCITY

WIND

WIND

WIND

WIND

**VALUABLE**

RETURN TO  
PUBLIC WORKS  
OFFICE  
CAMP LEJEUNE  
NORTH CAROLINA

SUBJECT Location Test Well T-8  
At Dump Area at End of River Road  
Reg. Area # 5

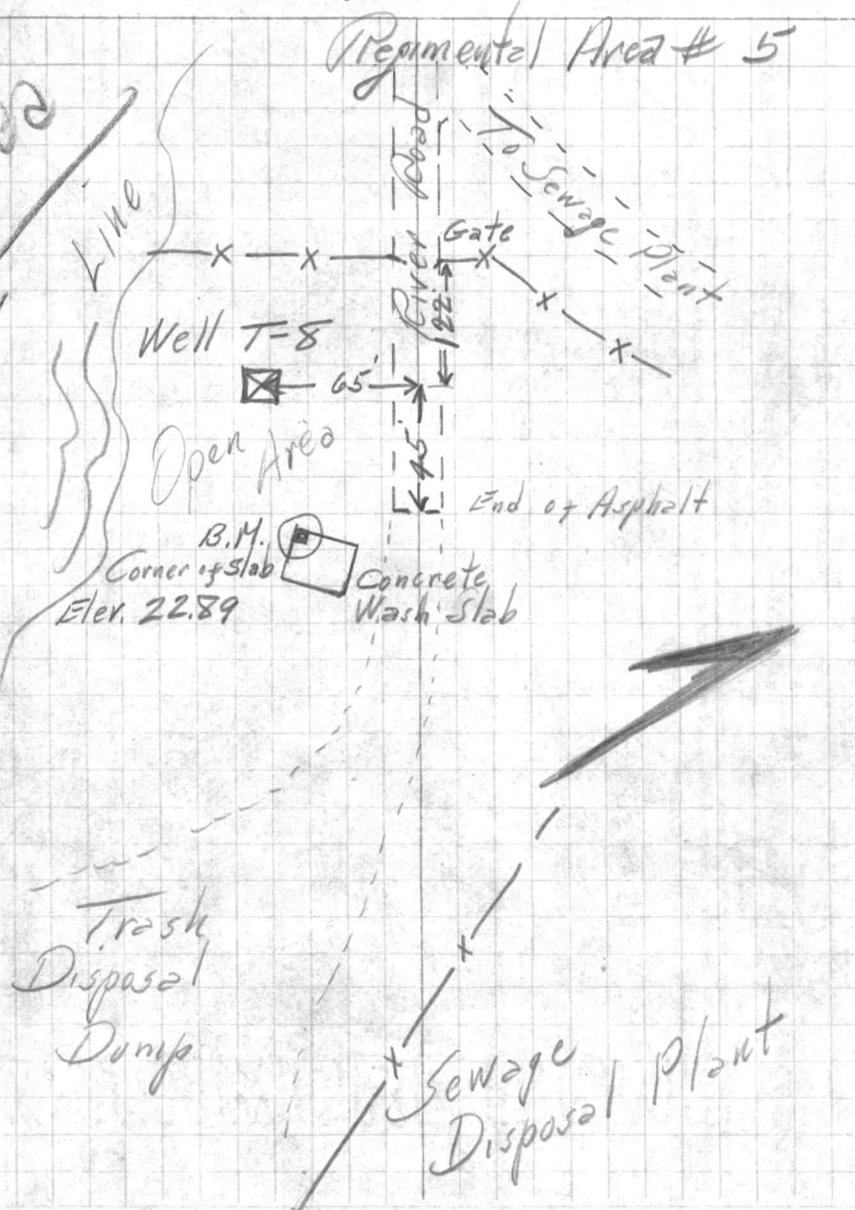
FIELD PARTY  
Dillon IN CHARGE  
\_\_\_\_ INSTRUMENT  
\_\_\_\_ NOTES  
\_\_\_\_ TAPE READ  
\_\_\_\_ TAPE OR ROD  
\_\_\_\_ TAPE OR ROD  
INSTRUMENT NO. \_\_\_\_\_  
TAPE NO. \_\_\_\_\_

WEATHER  
CLEAR SNOW  
CLOUDY HOT  
WINDY MODERATE  
RAIN COLD  
FAIR FOG  
FIGURED BY \_\_\_\_\_  
NOTES CHECKED BY \_\_\_\_\_  
PLOTTED BY \_\_\_\_\_

FILE No. \_\_\_\_\_  
FLDR. No. \_\_\_\_\_  
SHEET #5 of 15  
DATE 11/6/1958

Quad. No. \_\_\_\_\_

STATION	DIST.	ANGLE ° ' "	+	H. I. BEARING	VER. ANG. DIFF.	ELEVATION
<i>Relocated</i>						
<i>Moved to French Creek Area</i>						
<i>11/25/58</i>						
<i>To French Creek</i>						



AVAILABLE

NO. 10  
BULLOCK  
STREET  
GARDEN  
NORTH CAROLINA

STATION DIST. ANGLE M. I. SPACING DR. A. LOCATION

INSTRUMENT NO. \_\_\_\_\_  
TAPES \_\_\_\_\_

TAPES ON ROD \_\_\_\_\_  
TAPES ON LOG \_\_\_\_\_

TAPES READ \_\_\_\_\_  
NOTES \_\_\_\_\_

IN CHARGE \_\_\_\_\_  
INSTRUMENT \_\_\_\_\_

WIND \_\_\_\_\_  
TEMPERATURE \_\_\_\_\_

WIND DIRECTION \_\_\_\_\_  
WIND FORCE \_\_\_\_\_

WIND SPEED \_\_\_\_\_  
WIND TYPE \_\_\_\_\_

WIND COLOR \_\_\_\_\_  
WIND STATE \_\_\_\_\_

NO. 10

**VALUABLE**

SUBJECT Test well site

RETURN TO  
PUBLIC WORKS  
OFFICE  
CAMP LEJEUNE  
NORTH CAROLINA

T-9  
Tarawa Terrace #1  
South of Highway #24

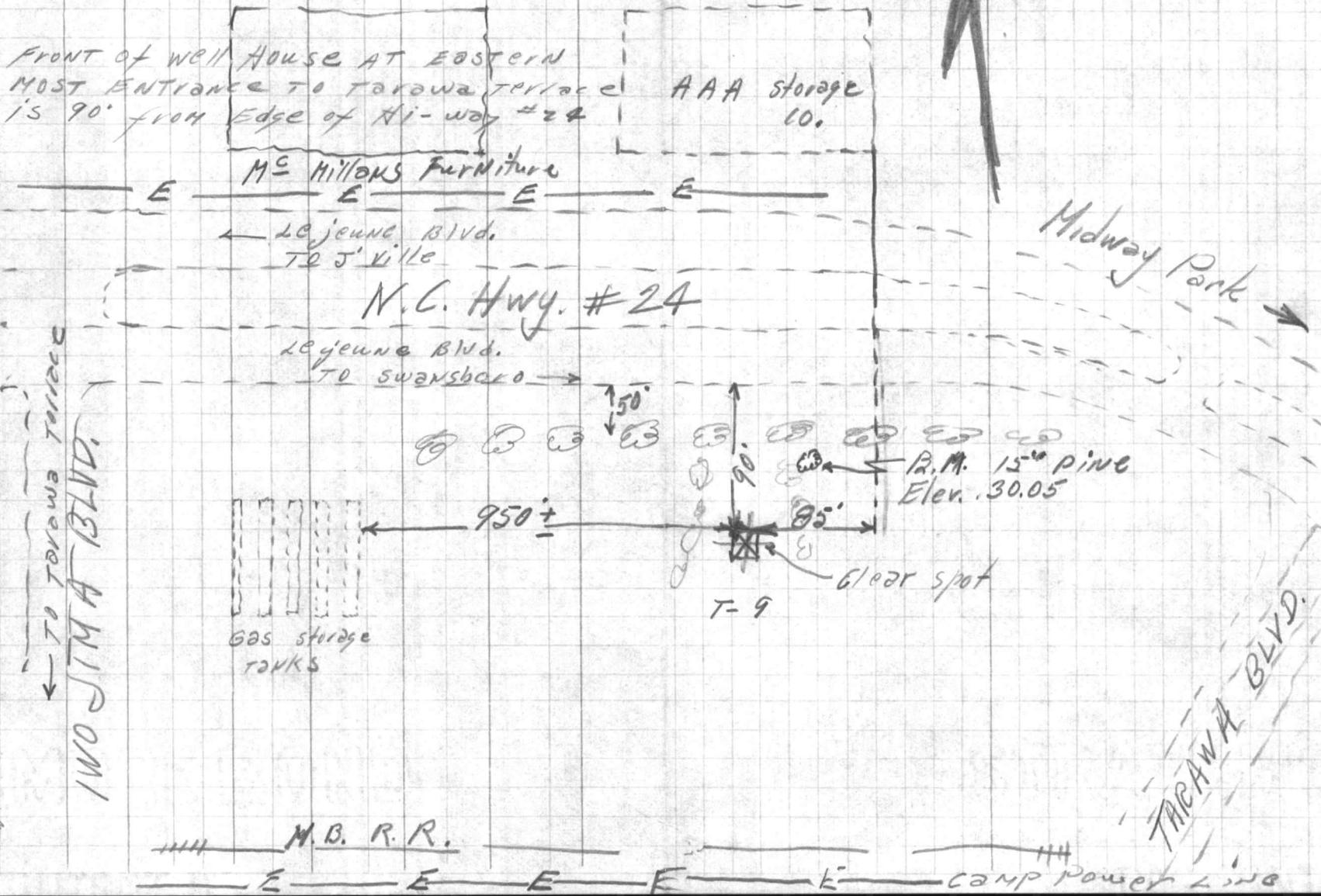
FIELD PARTY  
Kellum IN CHARGE  
\_\_\_\_ INSTRUMENT  
\_\_\_\_ NOTES  
\_\_\_\_ TAPE READ  
\_\_\_\_ TAPE OR ROD  
\_\_\_\_ TAPE OR ROD  
INSTRUMENT No. \_\_\_\_\_  
TAPE No. \_\_\_\_\_

WEATHER  
CLEAR \_\_\_\_\_ SNOW \_\_\_\_\_  
CLOUDY \_\_\_\_\_ HOT \_\_\_\_\_  
WINDY \_\_\_\_\_ MODERATE \_\_\_\_\_  
RAIN \_\_\_\_\_ COLD \_\_\_\_\_  
FAIR \_\_\_\_\_ FOG \_\_\_\_\_  
FIGURED BY \_\_\_\_\_  
NOTES CHECKED BY \_\_\_\_\_  
PLOTTED BY \_\_\_\_\_

FILE No. \_\_\_\_\_  
FLDR. No. \_\_\_\_\_  
SHEET #6 of 15  
DATE 11-7 1958

Quad. No. \_\_\_\_\_

STATION	DIST.	ANGLE ° ' "	+	H. I. BEARING	VER. ANG. DIFF.	ELEVATION
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100  
3-25  
47

VALUABLE  
SUBJECT  
RETURN TO  
SUB-DIVISION  
DIVISION  
CAMP NUMBER  
MOUNTAIN CAMPING

STATION  
DATE  
MILEAGE  
H.M. &  
D.M.K.

FIELD PARTY  
IN CHARGE  
PLANTING  
MOVES  
TARE READ  
TARE ON NO.  
TARE OFF NO.  
INSTRUMENT NO.  
TARE NO.

BAIRN  
NO.  
NO.  
NO.  
NO.  
NO.  
NO.  
NO.  
NO.  
NO.

NO.  
NO.  
NO.  
NO.  
NO.  
NO.  
NO.  
NO.  
NO.

VALUABLE

SUBJECT Test Well T-10

Tarawa Terrace #2

South of Highway #24

RETURN TO  
PUBLIC WORKS  
OFFICE  
CAMP LEJEUNE  
NORTH CAROLINA

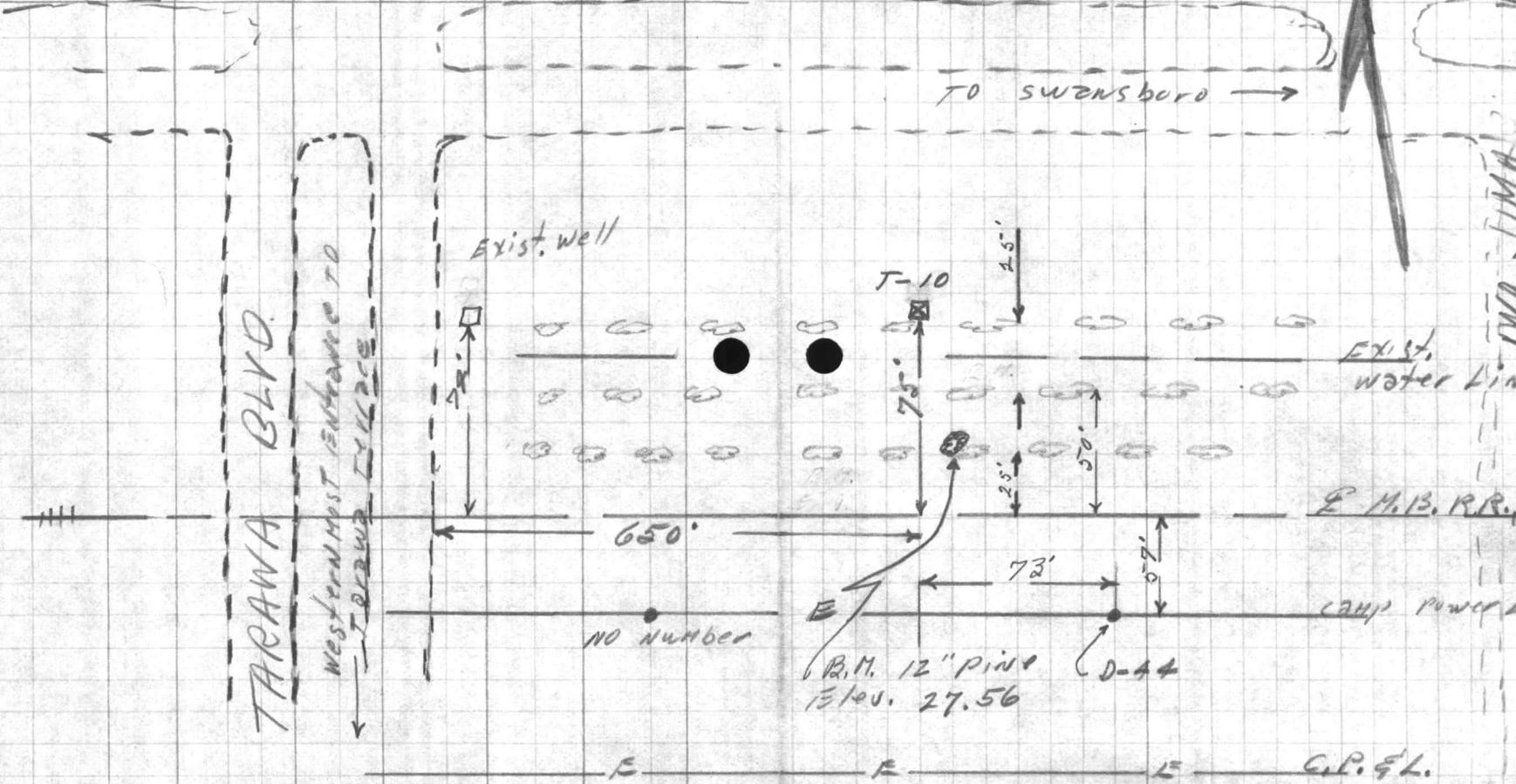
FIELD PARTY  
Kellum IN CHARGE  
INSTRUMENT \_\_\_\_\_  
NOTES \_\_\_\_\_  
TAPES READ \_\_\_\_\_  
TAPES OR RODS \_\_\_\_\_  
TAPES OR RODS \_\_\_\_\_  
INSTRUMENT NO. \_\_\_\_\_  
TAPE NO. \_\_\_\_\_

WEATHER  
CLEAR \_\_\_\_\_ SNOW \_\_\_\_\_  
CLOUDY \_\_\_\_\_ HOT \_\_\_\_\_  
WINDY \_\_\_\_\_ MODERATE \_\_\_\_\_  
RAIN \_\_\_\_\_ COLD \_\_\_\_\_  
FAIR \_\_\_\_\_ FOG \_\_\_\_\_  
FIGURED BY \_\_\_\_\_  
NOTES CHECKED BY \_\_\_\_\_  
PLOTTED BY \_\_\_\_\_

FILE No. \_\_\_\_\_  
FLDR. No. \_\_\_\_\_  
SHEET # 7 of 15  
DATE \_\_\_\_\_ 19\_\_

Quad. No. \_\_\_\_\_

STATION ← DIST. → ANGLE → H.A. BEARING → VER. ANG. DIFF. → ELEVATION



T-10

WATERWAY

STATION NO.  
DATE  
TIME  
WIND DIRECTION  
WIND FORCE

Station No. \_\_\_\_\_  
Date \_\_\_\_\_  
Time \_\_\_\_\_

WIND DIRECTION \_\_\_\_\_  
WIND FORCE \_\_\_\_\_  
WAVE PERIOD \_\_\_\_\_  
WAVE HEIGHT \_\_\_\_\_  
SEA STATE \_\_\_\_\_

WIND DIRECTION \_\_\_\_\_  
WIND FORCE \_\_\_\_\_  
WAVE PERIOD \_\_\_\_\_  
WAVE HEIGHT \_\_\_\_\_  
SEA STATE \_\_\_\_\_  
TIDE \_\_\_\_\_  
CURRENT \_\_\_\_\_  
SPEED \_\_\_\_\_  
DIRECTION \_\_\_\_\_

WIND DIRECTION \_\_\_\_\_  
WIND FORCE \_\_\_\_\_  
WAVE PERIOD \_\_\_\_\_  
WAVE HEIGHT \_\_\_\_\_  
SEA STATE \_\_\_\_\_  
TIDE \_\_\_\_\_  
CURRENT \_\_\_\_\_  
SPEED \_\_\_\_\_  
DIRECTION \_\_\_\_\_

1000

VALUABLE

SUBJECT

Test Well T-11

Tarawa Terrace #2

Will Locate Later

Error on Geologic Sheet Location

RETURN TO  
PUBLIC WORKS  
OFFICE  
CAMP LEJEUNE  
NORTH CAROLINA

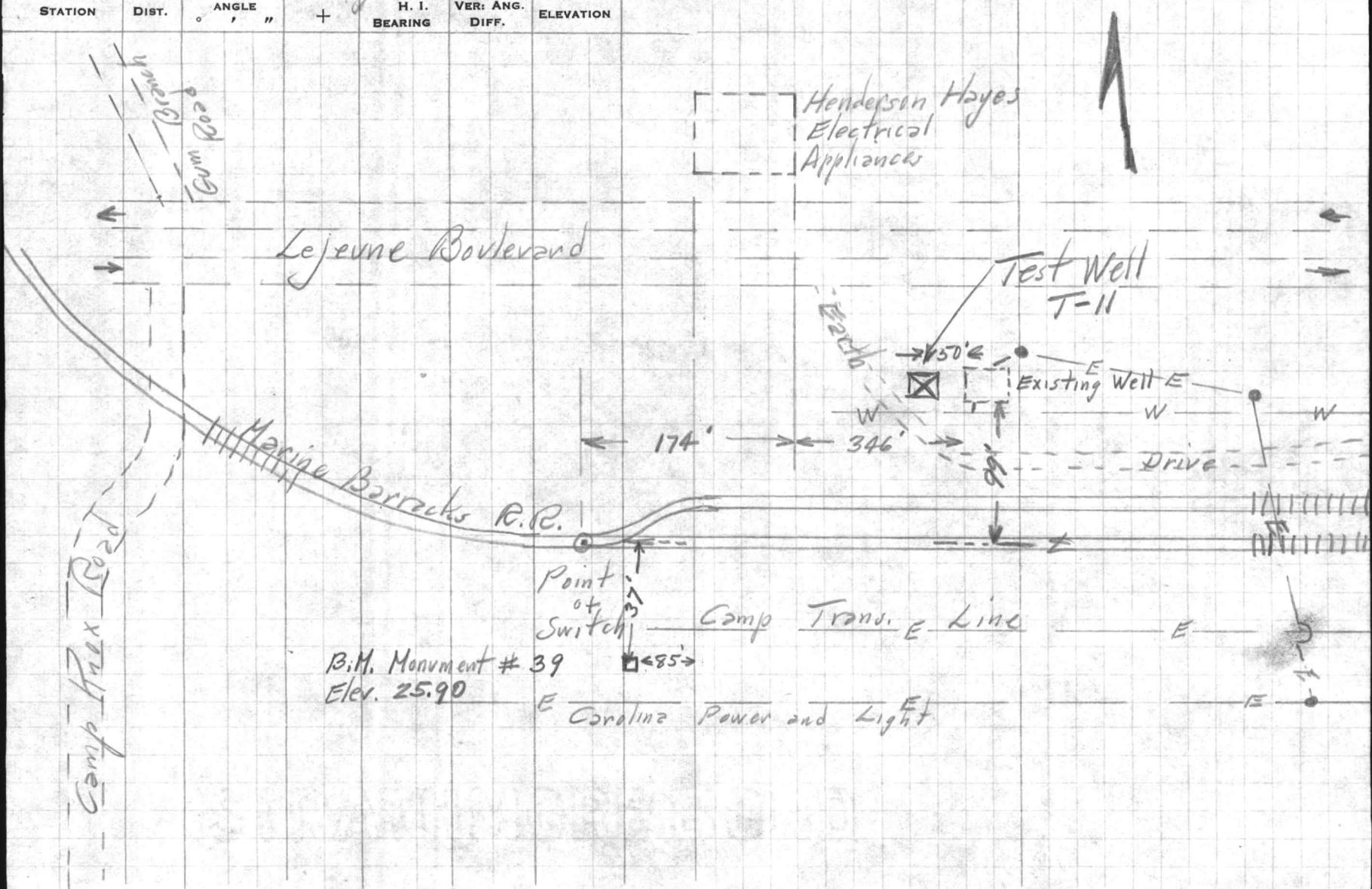
FIELD PARTY  
R. Han IN CHARGE  
INSTRUMENT  
NOTES  
TAPE READ  
TAPE OR ROD  
TAPE OR ROD  
INSTRUMENT No.  
TAPE No.

WEATHER  
CLEAR  
CLOUDY  
WINDY  
RAIN  
FAIR  
SNOW  
HOT  
MODERATE  
COLD  
FOG  
FIGURED BY  
NOTES CHECKED BY  
PLOTTED BY

FILE No. 99 M  
FLDR. No.  
SHEET #8 of 15  
DATE 11/19/58

Quad. No.

STATION	DIST.	ANGLE ° ' "	+	H. I. BEARING	VER. ANG. DIFF.	ELEVATION
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INITIALS

STATION NO.  
DATE  
TIME  
LOCATION  
NORTH CAROLINA

STATION DIST. ANGLE BEARING

H. I. BEARING

VER. ANGLE

LEVEL OR

TAB. NO.

INSTRUMENT NO.

TAB. ON JOB

TAB. OR INSTR.

WORKER

INSTRUMENT

IN CHARGE

FIELD PARTY

TABLE NO.

PLOTTED BY

DATE

SCALE

PROJECT

NO.

WEATHER

TABLE NO.

WIND

TEMP.

MOON

CLOUDS

RAIN

STATE

DATE

TIME

LOCATION

NORTH CAROLINA

STATION NO.

DATE

TIME

LOCATION

NORTH CAROLINA

STATION DIST.

ANGLE

BEARING

H. I.

VER. ANGLE

LEVEL OR

TAB. NO.

INSTRUMENT NO.

TAB. ON JOB

TAB. OR INSTR.

WORKER

IN CHARGE

FIELD PARTY

WEATHER

WIND

TEMP.

MOON

CLOUDS

RAIN

STATE

DATE

TIME

LOCATION

NORTH CAROLINA

STATION NO.

DATE

TIME

LOCATION

NORTH CAROLINA

STATION DIST.

ANGLE

BEARING

H. I.



VALIANT

SUBJECT

REMARKS  
PUBLIC WORKS  
DITCH  
CAMP LEONE  
NORTH PASS

STATION

DIST

BEARING

VEG. AREA

LOCATION

WIND PARTY  
IN CHARGE  
INSTRUMENT  
NAME  
TYPE OF S  
TYPE OF HD  
TYPE OF SD  
INSTRUMENT NO.

WEATHER  
TEMP  
WIND  
MOON  
CLOUDS  
WIND  
TEMP  
MOON  
CLOUDS

FILE NO.

DATE  
TIME

**VALUABLE**

RETURN TO  
PUBLIC WORKS  
OFFICE  
CAMP LEJEUNE  
NORTH CAROLINA

SUBJECT LOCATION WELL SITE  
ON MONTFORD LANDING RD.  
Well T-14

FIELD PARTY

DENNIS IN CHARGE  
\_\_\_\_ INSTRUMENT  
\_\_\_\_ NOTES  
\_\_\_\_ TAPE READ  
\_\_\_\_ TAPE OR ROD  
\_\_\_\_ TAPE OR ROD  
INSTRUMENT NO. \_\_\_\_\_  
TAPE NO. \_\_\_\_\_

WEATHER

CLEAR  
CLOUDY  
WINDY  
RAIN  
FAIR

SNOW  
HOT  
MODERATE  
COLD  
FOG

FILE No. \_\_\_\_\_

FLDR. No. \_\_\_\_\_

SHEET 1 of 10 of 15

DATE 11-12-1958

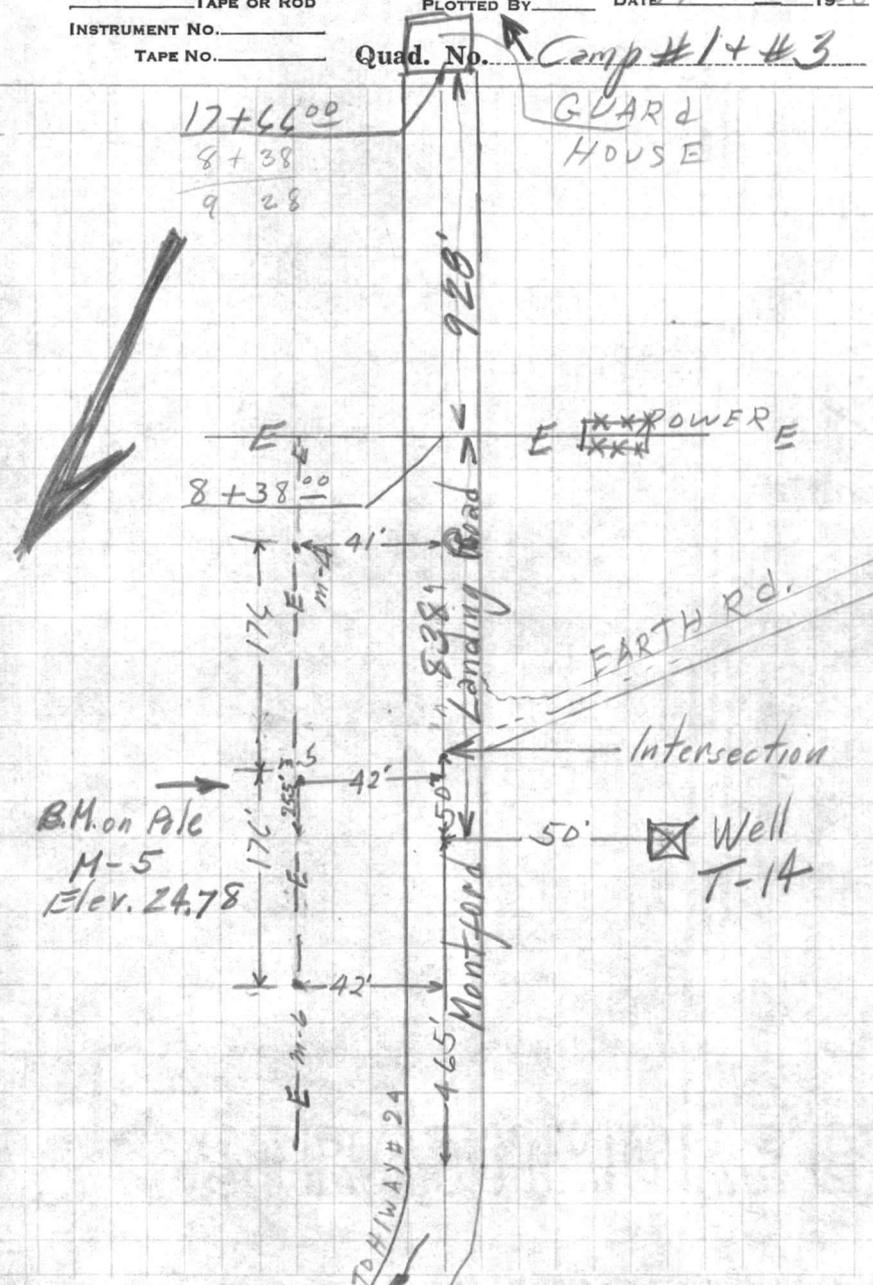
FIGURED BY \_\_\_\_\_

NOTES CHECKED BY \_\_\_\_\_

PLOTTED BY \_\_\_\_\_

Quad. No. Camp #1 + #3

STATION	DIST.	ANGLE ° ' "	+	H. I. BEARING	VER. ANG. DIFF.	ELEVATION
---------	-------	----------------	---	------------------	--------------------	-----------



17+66.00  
8+38  
9 28

GUARD HOUSE

~~E \*\*\* POWER E~~

EARTH RD.

Intersection

B.M. on Pole  
M-5  
Elev. 24.78

Well  
T-14

TO HIGHWAY # 24

928'

538'

50'

465'

42'

42'

176'

176'

42'

42'

41'

VIRGINIA

STATE OF VIRGINIA  
DEPARTMENT OF REVENUE  
OFFICE OF THE COMMISSIONER  
RICHMOND, VIRGINIA

STATION DATE

DEPARTMENT

CLASS

REVENUE

NAME OF PARTY  
IN CHARGE  
RESIDENT  
TAX NO.  
TAX YEAR  
TAX NO.  
TAX YEAR

CLASS  
OF  
PROPERTY  
TAXED  
TAX NO.  
TAX YEAR

NAME OF  
OWNER  
TAX NO.  
TAX YEAR

NAME OF  
PROPERTY  
TAX NO.  
TAX YEAR

**VALUABLE**

SUBJECT

Location Well T-15

Camp Geiger, Northeast of  
4th and V.F. Sts., Old Camp #1RETURN TO  
PUBLIC WORKS  
OFFICE  
CAMP LEJEUNE  
NORTH CAROLINA

FIELD PARTY

Dillon IN CHARGE

INSTRUMENT

NOTES

TAPE READ

TAPE OR ROD

TAPE OR ROD

INSTRUMENT No.

TAPE No.

WEATHER

CLEAR  
CLOUDY  
WINDY  
RAIN  
FAIRSNOW  
HOT  
MODERATE  
COLD  
FOG

FIGURED BY

NOTES CHECKED BY

PLOTTED BY

FILE No.

FLDR. No.

SHEET

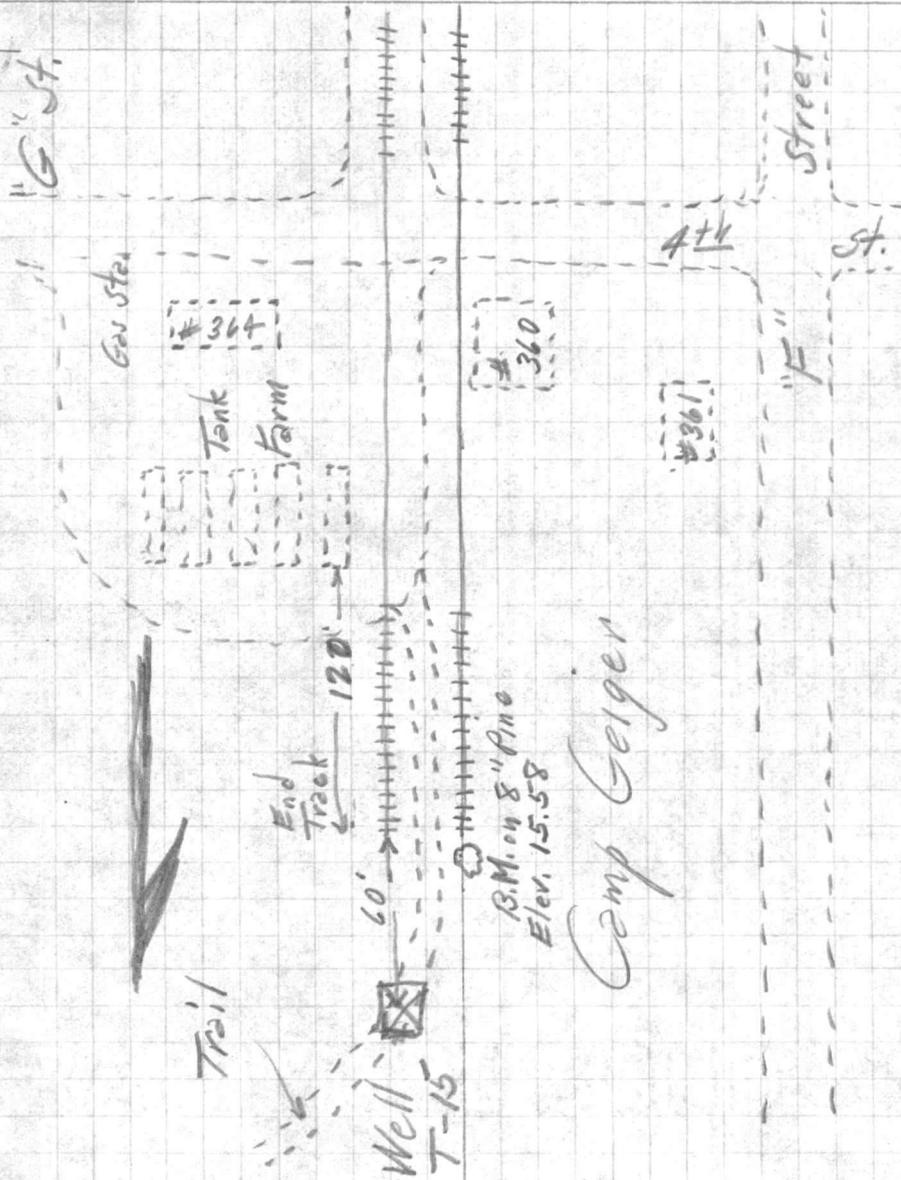
DATE

# 11 of 15

11/6/19 58

Quad. No.

STATION	DIST.	ANGLE			H. I. BEARING	VER: ANG. DIFF.	ELEVATION
		°	'	"			



VALUABLE

RETURN TO  
PUBLIC WORKS  
OFFICE  
CAMP LEWIS  
WASHINGTON

Station  
Date

Angle

N. T.  
BEARING

Dist. and  
Elev. on

LEAD PARTY  
IN CHARGE  
INSTRUMENT  
FOOTED  
TAPES READ  
TABLE ON ROD  
TABLE ON ROD  
INSTRUMENT NO.  
TAPES NO.

WEATHER  
CLEAR  
MIST  
CLOUDY  
WINDY  
RAIN  
TO  
FROST  
Haze  
MIST  
OTHER

FILE NO.  
PLAN NO.  
SHEET NO.  
DATE

10  
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AVAILABLE

RETURN TO  
SOUTH OREGON  
OFFICE  
OF THE WARDEN  
NORTH OREGON

EXAMINER

AWARD

BEARING

DIR

EXAMINER

FIELD PARTY  
IN CHARGE  
INSTRUMENT NO.  
TAPES OR RODS  
TAPES OR RODS  
TAPES OR RODS  
TAPES OR RODS  
TAPES OR RODS

WEATHER  
CLEAR  
CLOUDY  
WINDY  
CALM  
MIST  
FOG  
RAINY  
HAIL  
SNOW  
OTHER

FIELD NO.  
DATE  
PLANTED BY  
COLLECTED BY  
DATE

*[Faint handwritten notes and markings, possibly including a sketch or map, are visible across the lower half of the page.]*



WARRANT

RETURN TO  
PUBLIC WORKS  
OFFICE  
CAMP CARLINE  
NORTH CAROLINA

STATION DIST

ANGLE

+

BEARING

VAR. AN  
DIR.

ELEVATION

T. & No.

INSTRUMENT NO.

TAPE OR ROD

TAPE OR ROD

YARD READ

IN. FEET

INSTRUMENT

IN CHARGE

FIELD PARTY

LINE

PROPERTY

OWNER OR AGENT

ADDRESS

DATE

TIME

MOON

WEATHER

FILE NO.

DATE

TIME

**VALUABLE**
 RETURN TO  
 PUBLIC WORKS  
 OFFICE  
 CAMP LEJEUNE  
 NORTH CAROLINA

 SUBJECT Proposed Well T-22  
At Intersection of Sneads Ferry  
Road and Mock-up Road to  
Intra-coastal Water-way

## FIELD PARTY

Dillon IN CHARGE  
 \_\_\_\_\_ INSTRUMENT  
 \_\_\_\_\_ NOTES  
 \_\_\_\_\_ TAPE READ  
 \_\_\_\_\_ TAPE OR ROD  
 \_\_\_\_\_ TAPE OR ROD  
 \_\_\_\_\_ INSTRUMENT NO.  
 \_\_\_\_\_ TAPE NO.

## WEATHER

 CLEAR \_\_\_\_\_ SNOW \_\_\_\_\_  
 CLOUDY \_\_\_\_\_ HOT \_\_\_\_\_  
 WINDY \_\_\_\_\_ MODERATE \_\_\_\_\_  
 RAIN \_\_\_\_\_ COLD \_\_\_\_\_  
 FAIR \_\_\_\_\_ FOG \_\_\_\_\_

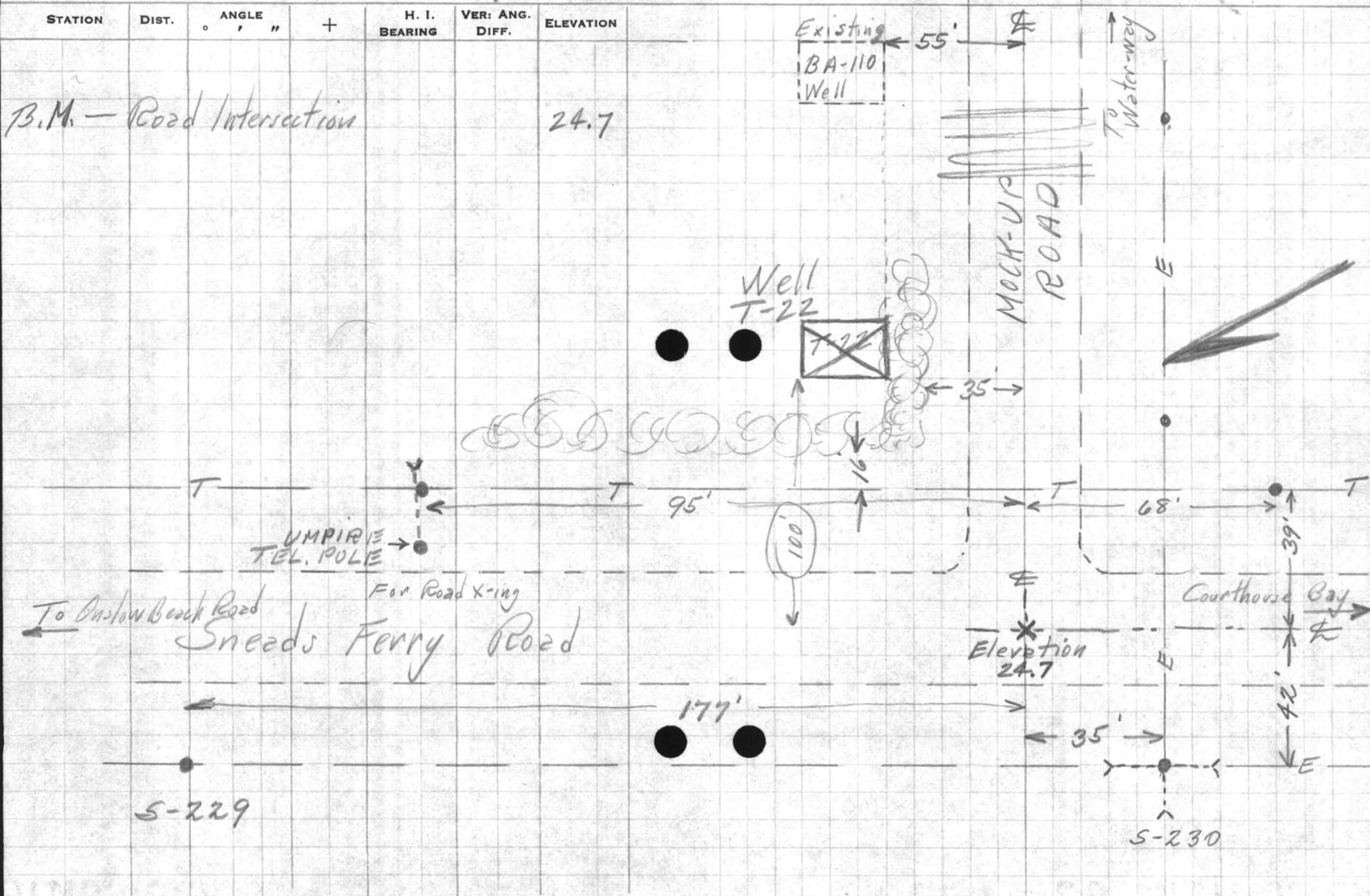
FILE No. \_\_\_\_\_

FLDR. No. \_\_\_\_\_

SHEET #140+25

 FIGURED BY \_\_\_\_\_  
 NOTES CHECKED BY \_\_\_\_\_  
 PLOTTED BY \_\_\_\_\_  
 DATE 11/3/1958

Quad. No. \_\_\_\_\_









**VALUABLE**

SUBJECT Location for test  
Well T-8  
Moved from sewage  
Disposal Area.

RETURN TO  
 PUBLIC WORKS  
 OFFICE  
 CAMP LEJEUNE  
 NORTH CAROLINA

**FIELD PARTY**

Kellum IN CHARGE  
 \_\_\_\_\_ INSTRUMENT  
 \_\_\_\_\_ NOTES  
 \_\_\_\_\_ TAPE READ  
 \_\_\_\_\_ TAPE OR ROD  
 \_\_\_\_\_ TAPE OR ROD  
 \_\_\_\_\_ INSTRUMENT NO.  
 \_\_\_\_\_ TAPE NO.

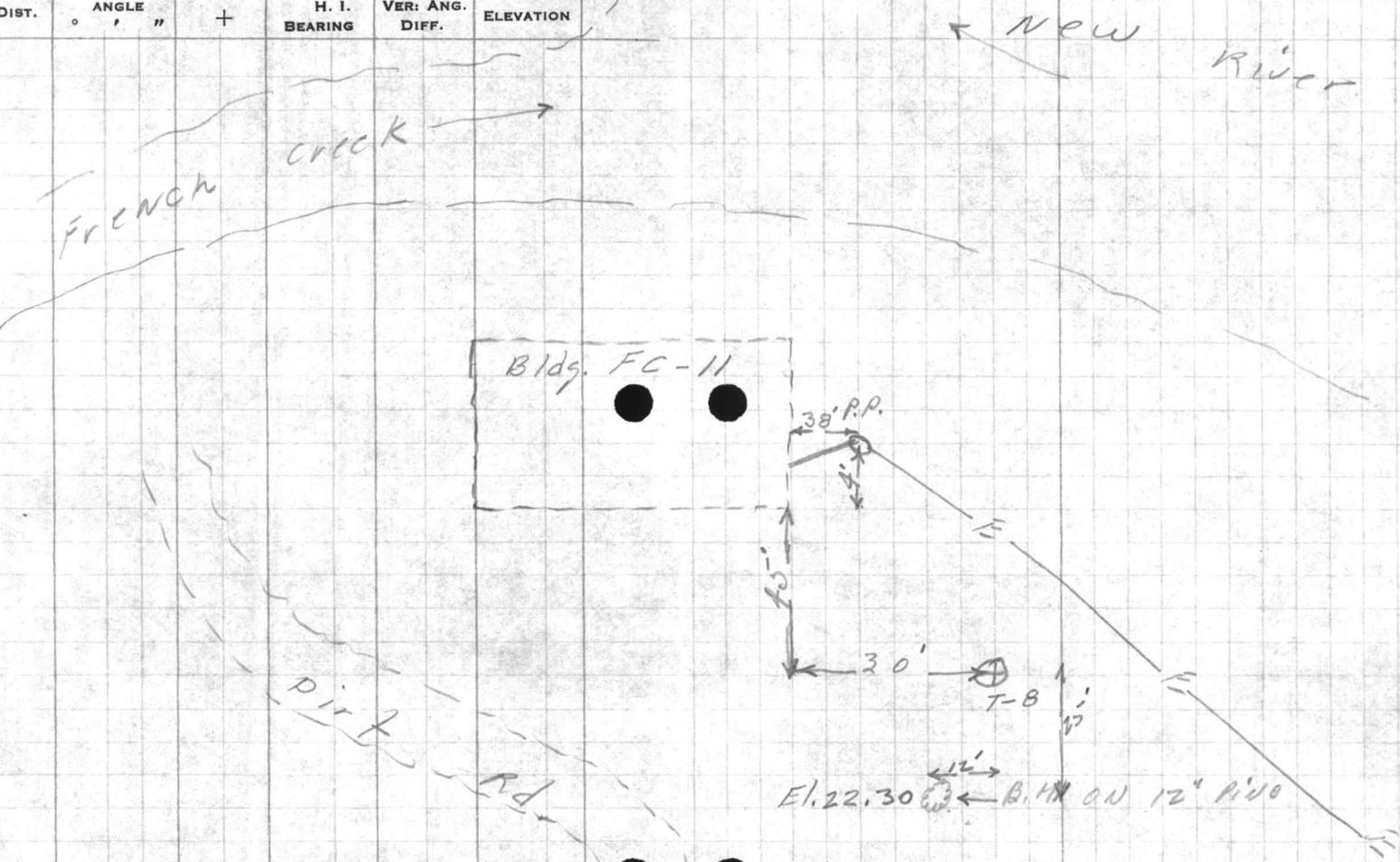
**WEATHER**

CLEAR \_\_\_\_\_ SNOW \_\_\_\_\_  
 CLOUDY \_\_\_\_\_ HOT \_\_\_\_\_  
 WINDY \_\_\_\_\_ MODERATE \_\_\_\_\_  
 RAIN \_\_\_\_\_ COLD \_\_\_\_\_  
 FAIR \_\_\_\_\_ FOG \_\_\_\_\_

FILE No. \_\_\_\_\_  
 FLDR. No. \_\_\_\_\_  
 SHEET \_\_\_\_\_  
 DATE 11-25-1958

Quad. No. \_\_\_\_\_

STATION	DIST.	ANGLE ° ' "	+	H. I. BEARING	VER: ANG. DIFF.	ELEVATION	
B.M.						25.56	MON. # 401
B.M. (NEW)	1.79	27.35			5.05	22.30	SPIKE IN 12" PIN
B.M.	4.90	27.20			1.65	25.55	MON. # 401



VALUABLE

SUBJECT

RETURN TO  
PUBLIC WORKS  
OFFICE  
CAMP USBRUE  
WASHINGTON

STATION

DIST

ANGLE

BEARING

VAL AND  
DIB

REVISION

FIELD NO.

IN CHANGE

INSTRUMENT

TAPE NO.

TAPE OR LOG

TAPE OR LOG

INSTRUMENT NO.

TAPE NO.

WEATHER

WIND

TEMP

MOIST

COLO

REMARKS

CHECKED BY

PLotted BY

FILE NO.

FILE NO.

FILE NO.

REMARKS

DATE

**VALUABLE**

SUBJECT Location for test  
Well T-12  
Relocated

RETURN TO  
 PUBLIC WORKS  
 OFFICE  
 CAMP LEJEUNE  
 NORTH CAROLINA

**FIELD PARTY**

\_\_\_\_ IN CHARGE  
 \_\_\_\_ INSTRUMENT  
 \_\_\_\_ NOTES  
 \_\_\_\_ TAPE READ  
 \_\_\_\_ TAPE OR ROD  
 \_\_\_\_ TAPE OR ROD  
 \_\_\_\_ INSTRUMENT No.  
 \_\_\_\_ TAPE No.

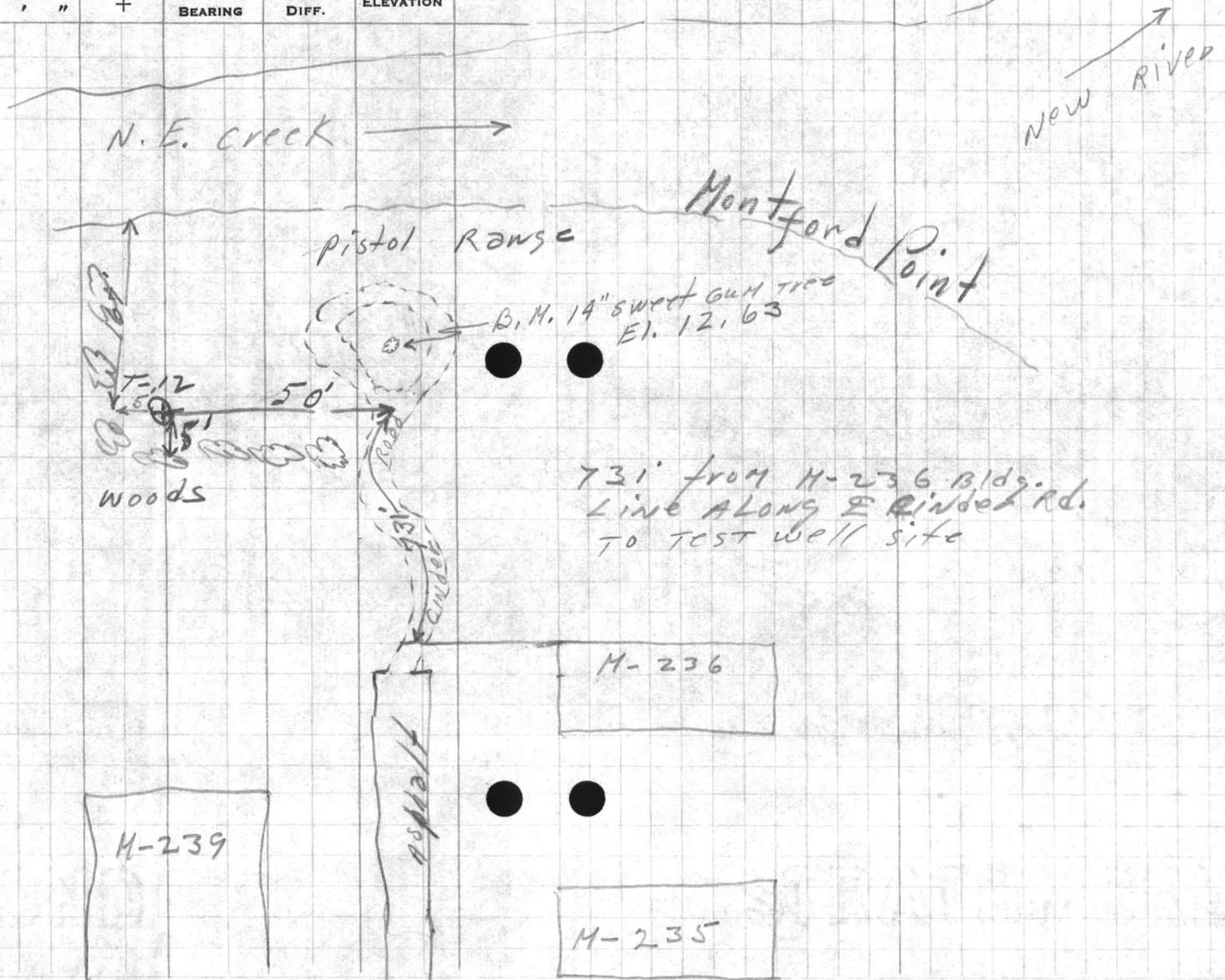
**WEATHER**

CLEAR SNOW  
 CLOUDY HOT  
 WINDY MODERATE  
 RAIN COLD  
 FAIR FOG

FILE No. \_\_\_\_\_  
 FLDR. No. \_\_\_\_\_  
 SHEET \_\_\_\_\_  
 DATE 11-25-58

Quad. No. \_\_\_\_\_

STATION	DIST.	ANGLE ° ' "	+	H. I. BEARING	VER. ANG. DIFF.	ELEVATION
---------	-------	----------------	---	------------------	--------------------	-----------



VALUABLE

SUBJECT

REPORT TO  
FIELD WORK  
OFFICE  
STATE  
AGENCY

STATION

DATE

ANALYST

GEARING

DIR

VER. AM.

ST. VARIO.

FIELD PARTY

IN CHARGE

INSTRUMENT

WIND

TEMPERATURE

WIND DIRECTION

WIND FORCE

WIND OR FOG

WIND NO.

WEATHER

DRY

MOIST

WINDY

RAINY

FOG

SMOKE

HAZE

ICE

SNOW

FILE NO.

LAB. NO.

DATE

TIME

PLACE

STATE

COUNTY

TOWNSHIP

RANGE

SECTION

QUARTER

ACRES

OWNER

CITY

STATE

COUNTY

TOWNSHIP

RANGE

SECTION

ACRES

OWNER

CITY

STATE

COUNTY

TOWNSHIP

RANGE

SECTION

ACRES

OWNER

CITY

STATE

COUNTY

**VALUABLE**

SUBJECT B.M. for test  
Well T-12  
Relocated

RETURN TO  
 PUBLIC WORKS  
 OFFICE  
 CAMP LEJEUNE  
 NORTH CAROLINA

**FIELD PARTY**

\_\_\_\_ IN CHARGE  
 \_\_\_\_ INSTRUMENT  
 \_\_\_\_ NOTES  
 \_\_\_\_ TAPE READ  
 \_\_\_\_ TAPE OR ROD  
 \_\_\_\_ TAPE OR ROD  
 \_\_\_\_ INSTRUMENT No.  
 \_\_\_\_ TAPE No.

**WEATHER**

CLEAR  
 CLOUDY  
 WINDY  
 RAIN  
 FAIR

SNOW  
 HOT  
 MODERATE  
 COLD  
 FOG

FILE No. \_\_\_\_\_  
 FLDR. No. \_\_\_\_\_  
 SHEET \_\_\_\_\_  
 DATE 11-22-58

Quad. No. \_\_\_\_\_

STATION	DIST.	ANGLE			+	H. I. BEARING	VER. ANG. DIFF.	ELEVATION	
		°	'	"					
B.M.							13.89		spike in transformer pole near Bldg M-240
					2.85	16.74			
T.P.					4.85	11.89			
					3.04	14.93			
T.P.					2.09	12.84			
					4.16	17.00			
B.M. (T.P.)					4.37	12.63			spike in 14" sweet gum 83' west of T-12 well site
					4.57	17.20			
T.P.					4.34	12.86			
					1.99	14.85			
T.P.					2.91	11.94			
					4.45	16.39			
B.M.					2.50	13.89			spike in trans. pole near Bldg. M-240

WATER

STATION  
DIST  
ANGLE  
BEARING  
H. T.  
V. AN.  
ELEVATION

SUBJECT

FIELD PARTY  
IN CHARGE  
INSTRUMENT  
NOTES  
TAP READ  
TAP OR ROD  
TAP OR ROD  
TAP OR ROD  
TAP OR ROD  
TAP OR ROD

WEATHER  
CLEAR  
CLOUDY  
WINDY  
RAIN  
FOG  
FROST  
SNEEZE BY  
CHECK BY  
P. BY

FILE NO.

DATE

BY

DATE

FILE NO.

**VALUABLE**

SUBJECT

Rehabilitation of Water

RETURN TO  
PUBLIC WORKS  
OFFICE  
CAMP LEJEUNE  
NORTH CAROLINA

Well Sites - Arden  
~~Test Well Drilling~~

FIELD PARTY  
Dillon IN CHARGE  
INSTRUMENT  
NOTES  
TAPES READ  
TAPES OR RODS  
TAPES OR RODS  
INSTRUMENT NO.  
TAPE NO.

WEATHER  
CLEAR CLOUDY WINDY RAIN FAIR  
SNOW HOT MODERATE COLD FOG  
FIGURED BY  
NOTES CHECKED BY  
PLOTTED BY

FILE No.  
FLDR. No.  
SHEET  
DATE 8/11/59

Quad. No.

STATION	DIST.	ANGLE ° ' "	+	H. I. BEARING	VER. ANG. DIFF.	ELEVATION	
B.M.			0.65	35.11		34.46	A. Elev. Bldg. #904
Const. B.M.			35.24	4.75		30.36 (30.49)	Pole AF-16
Ground Elev. at Well				5.79		29.32 29.45	PLAN SHOWS 29.74
B.M.			0.89	24.74		23.85	Pl. Elev. Bldg. #449
Const. B.M.				4.08		20.66 (20.67)	
Ground Elev. at Well				5.41		19.33 (19.19)	
T.P.				9.31		15.43	
			1.73	17.16			
T.P.				0.54		16.62	
			10.57	27.19			
T.P.				2.34		24.85	
			5.45	30.30			
T.P.				4.30		26.00	
			5.94	31.94			
B.M. (T.P.)				3.82		28.12 (28.14)	Not shown on Plan ON TELE. POLE near well site
			5.24	33.26		3.88 29.48	Ground at well site Plan shows <u>29.35</u>

NORTH CAROLINA  
MOUNTAIN  
STATION

STATION

ANGLE

+

BEARING

W. & E.  
DIRE.

ELEVATION

FIELD PARTY

LEADER

MEMBERS

NOTES

TASK

TASK NO.

TASK NO.

PROJECT NO.

TITLE

WEATHER

TEMP.

MOIST.

WIND

WIND

WIND

WIND

WIND

WIND

DATE

DATE

DATE

DATE

DATE

VALUABLE

RETURN TO  
PUBLIC WORKS  
OFFICE  
CAMP LEJEUNE  
NORTH CAROLINA

SUBJECT

Topography - Flag Pole Site  
 Firing Range Control Flag.  
 Bogbe Inlet Coast Guard Station.

FIELD PARTY

*Diller*  
 IN CHARGE  
 INSTRUMENT  
 NOTES  
 TAPE READ  
 TAPE OR ROD  
 TAPE OR ROD  
 INSTRUMENT NO.  
 TAPE NO.

WEATHER

CLEAR  
 CLOUDY  
 WINDY  
 RAIN  
 FAIR  
 SNOW  
 HOT  
 MODERATE  
 COLD  
 FOG  
 FIGURED BY  
 NOTES CHECKED BY  
 PLOTTED BY

FILE No.

FLDR. No.

SHEET

DATE

Quad. No.

STATION	DIST.	ANGLE " "	+	H. I. BEARING	VER. ANG. DIFF.	ELEVATION
T	site of old look out tower					
	AZIMUTH site on water tank					
	82'	354° 54'		E 8' X 20 CONC. SLAB		
	92'	38° 58'		E Flag tower		
A	215'	36° 04'		cor. C.G. sta. Porch		
B	224'	52° 33'		cor. Porch & CONC. SLAB		
C	229'	57° 23'		cor. C.G. sta. Boat House		
D	166'	65° 55'		cor. Equipment shed		
E	138'	72° 31'		" " "		
F	173'	86° 01'		" " "		
	194'	101° 30'		TRANSFORMER POLE		
	109'	71° 35'		cor. CONC. RAMP		
	120'	78° 45'		" " "		
T			5.0 11.5			
	150'	355° 08'		6.5	5.0	old Lookout
	350'	35° 26'		12.0	-0.5	shored up tower site
	400'	30° 59'		11.9	-0.4	shore line
	420'	14° 17'		12.0	-0.5	" "
	465'	355° 03'		11.8	-0.3	" "
	520'	343° 43'		11.9	-0.4	" "
	92'	38° 58'		5.8	5.7	E Present Flag tower
	48.1	65° 12'		5.8	5.7	E of Flag tower 1927 & 1933
	147'	4° 02'		6.3	5.2	Approx. loc. of Proposed Flag pole
	130'	9° 42'		7.6	3.9	
	129'	359° 41'		7.9	3.6	
	133'	352° 26'		6.6	4.9	
	160'	352° 43'		6.5	5.0	
	177'	355° 02'		7.7	3.8	
	175'	6° 56'		7.1	4.4	

Water tank AT  
 DR. SHARPE'S HAMMOCK  
 AZIMUTH site

15 KVA

old Lookout

shored up tower site

shore line

" "

" "

" "

" "

" "

" "

" "

" "

" "

" "

" "

" "

" "

Footers  
RemainFooters  
Remain

STATION NO. 100  
DATE 10/10/50  
TIME 10:00  
WIND DIRECTION 000  
WIND VELOCITY 000  
WIND FORCE 000  
WIND STATE 000  
WIND TYPE 000  
WIND PERIOD 000  
WIND GUSTS 000  
WIND BURSTS 000  
WIND SQUALLS 000  
WIND CALMS 000  
WIND OTHER 000

WIND PARTIAL  
INCHES  
WIND VELOCITY  
WIND FORCE  
WIND STATE  
WIND TYPE  
WIND PERIOD  
WIND GUSTS  
WIND BURSTS  
WIND SQUALLS  
WIND CALMS  
WIND OTHER

WIND PARTIAL  
INCHES  
WIND VELOCITY  
WIND FORCE  
WIND STATE  
WIND TYPE  
WIND PERIOD  
WIND GUSTS  
WIND BURSTS  
WIND SQUALLS  
WIND CALMS  
WIND OTHER



**VALUABLE**

SUBJECT \_\_\_\_\_

RETURN TO  
PUBLIC WORKS  
OFFICE  
CAMP LEJEUNE  
NORTH CAROLINA

**FIELD PARTY**

\_\_\_\_\_  
IN CHARGE  
\_\_\_\_\_  
INSTRUMENT  
\_\_\_\_\_  
NOTES  
\_\_\_\_\_  
TAPE READ  
\_\_\_\_\_  
TAPE OR ROD  
\_\_\_\_\_  
TAPE OR ROD  
\_\_\_\_\_  
INSTRUMENT No.  
\_\_\_\_\_  
TAPE No.

**WEATHER**

CLEAR  
CLOUDY  
WINDY  
RAIN  
RAIN  
FAIR

SNOW  
HOT  
MODERATE  
COLD  
FOG

FILE No. \_\_\_\_\_

FLDR. No. \_\_\_\_\_

FIGURED BY \_\_\_\_\_ SHEET 2-073

NOTES CHECKED BY \_\_\_\_\_

PLOTTED BY \_\_\_\_\_ DATE 7-19-29

Quad. No. \_\_\_\_\_

STATION	DIST.	ANGLE " "	+	H. I. BEARING	VER. ANG. DIFF.	ELEVATION
π			5.0	11.5		
✓	181'	16° 04'			8.0	3.5
✓	155'	16° 12'			7.7	3.8
✓	141'	16° 18'			6.8	4.7
✓	112'	19° 0'			7.3	4.2
✓	115'	33° 47'			7.3	4.2
✓	118'	42° 46'			7.8	3.7
✓	144'	39° 43'			7.8	3.7
✓	165'	34° 55'			7.7	3.8
✓	143'	35° 09'				
✓	143.5'	42° 57'				
✓	186'	30° 20'			7.4	4.1
✓	200'	20° 54'			8.3	3.2
✓	200'	11° 15'			8.0	3.5
✓	203'	4° 38'			8.1	3.4
✓	226'	3° 18'			9.1	2.4
✓	209'	353° 47'			8.6	2.9
✓	180'	346° 41'			8.3	3.2
✓	155'	346° 10'			6.9	4.6
✓	137'	339° 20'			7.3	4.2
✓	111'	345° 31'			5.8	5.7
✓	124'	86° 09'			8.2	3.3
✓	287'	92° 08'			7.0	4.5

cor. Aerial identification platform

note: U.G. cable from trans.  
pole to S.E. cor. of Equipment Bldg.  
~~U.G. cable from trans. pole to~~  
~~same place from old tower~~

E 6'x15' conc. septic tank  
Power pole  
Telephone pole (end pole)  
U.G. Tel. Cable to center of Boat House

AT AT Flag pole tower  
SIGHT ON WATER TANK

1- 114° 34' 30"

2- 229° 10' 00"

M - 114° 35' 00"

counter clock wise angle to E of  
old look out tower

VALUABLE

STATION NO.  
BUSINESS WORKS  
PROJECT  
DATE  
BY

STATION  
DIR.

ANGLE

BEARING

DIR. AND  
DIST.

LOCATION

FIELD PARTY  
MEMBERS  
DATE  
TIME  
TAXES OR FEE  
TAX NO.  
PROJECT NO.

WEATHER  
CLEAR  
CLOUDY  
WINDY  
RAIN  
FAIR  
TEMPERATURE  
WIND  
CLOUD  
TODAY  
TODAY  
TODAY  
TODAY  
TODAY  
TODAY

NO. 10  
NO. 10  
NO. 10  
NO. 10  
NO. 10  
NO. 10

**VALUABLE**

RETURN TO  
PUBLIC WORKS  
OFFICE  
CAMP LEJEUNE  
NORTH CAROLINA

SUBJECT

Coast Guard Station  
Bogue Inlet  
Swanboro

FIELD PARTY

\_\_\_\_ IN CHARGE  
\_\_\_\_ INSTRUMENT  
\_\_\_\_ NOTES  
\_\_\_\_ TAPE READ  
\_\_\_\_ TAPE OR ROD  
\_\_\_\_ TAPE OR ROD  
\_\_\_\_ INSTRUMENT NO.  
\_\_\_\_ TAPE NO.

WEATHER

CLEAR  
CLOUDY  
WINDY  
RAIN  
FAIR

SNOW  
HOT  
MODERATE  
COLD  
FOG

FILE No. \_\_\_\_\_

FLDR. No. \_\_\_\_\_

SHEET

# 30 + 3

NOTES CHECKED BY \_\_\_\_\_

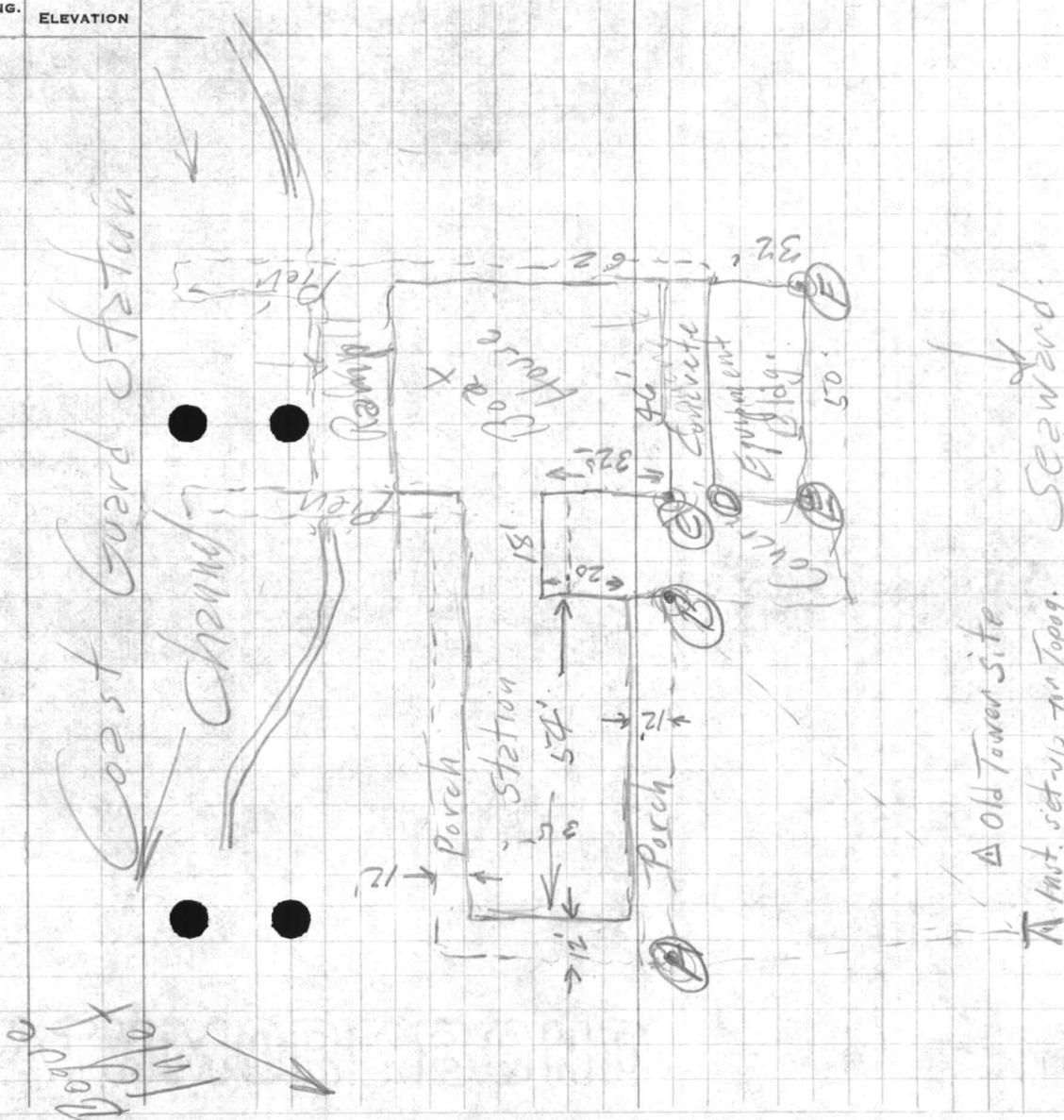
PLOTTED BY \_\_\_\_\_

DATE

7/14/19 59

Quad. No. \_\_\_\_\_

STATION	DIST.	ANGLE		+	H. I. BEARING	VER: ANG. DIFF.	ELEVATION
		°	"				



VALLEY

RETURN TO  
PUBLIC WORKS  
OFFICE  
COURT HOUSE  
WORTH CAROLINA

STATION: DIST. ANGLE

BEARING

DEVIATION

FIELD PARTY

IN CHARGE

ASSISTANT

DATE

TIME

PLACE

TRIP NO.

DATE

YEAR

MONTH

DAY

TIME

PLACE

TRIP NO.

DATE

TIME

PLACE



BANKS

CHANNEL

TO BOGUE INLET

N 57° 24' W

TO WHEEL BANK  
Near GULCH

LIFE SAVING STATION

CONCRETE  
AREA

EQUIP.  
BLDG.

Telephone  
PD/E

15 KV  
TRANSFORMER

BROOKLYN  
POWER

BROOKLYN  
POWER

BROOKLYN  
POWER

SCALE: 1" = 50'

E 2,572,000

N 332,000

E 2,573,000



1" = 20'

CHANNEL

TO BOONE TOWN

ROAD

AREA

ROAD

300'

100'

120'

200'

200'

200'

100'

100'

100'

100'

100'

100'

100'

100'

100'

100'

100'

100'

100'

100'

100'

100'

100'

100'

PUBLIC WORKS DEPARTMENT  
Camp Lejeune, North Carolina  
Survey Department

File Firing Range  
Quadrangle  
Date 7/14/59  
Sheet 1 of 7

Traverse Computation  
Description

*Bogue Inlet Coast Guard Station - Firing Range Marker*

Station	Distance	Bearing	Cosine	Sine	Latitude	Departure	Y Coordinate North	X Coordinate East
Bogue Inlet G.G. Flag Pole (1933)		N57°36'02"W					332,024.03	2,572,561.63
Point for Topography	48.1	S7°48'58"W	990710	136994	47.65	6.59	331,976.38	2,572,555.04
* Approx. Site of Flag Pole	147'	N53°22'W	596692	802470	87.71	117.96	332,064.09	2,572,437.08
							Lat 34°38'51" Long. 77°05'48"	
		N57°24'W					331,976.38	2,572,555.04
Cor. "E" Equipment Bldg.	138'	N15°07'E	96540	26079	133.2	36.0	332,109.6	2,572,591.0
" " " " " "	173'	N28°37'E	87784	47895	151.9	82.9	332,128.3	2,572,637.9
Center Bldg.	25'	N68°15'43"E	37036	92889	9.3	23.2	332,118.9	2,572,614.2
New Site for Flag Pole	81'	S21°44'17"E	92889	37036	75.2	30.0	332,043.7	2,572,644.2
							Lat. 34°38'50.2" Long. 77°05'45.4"	

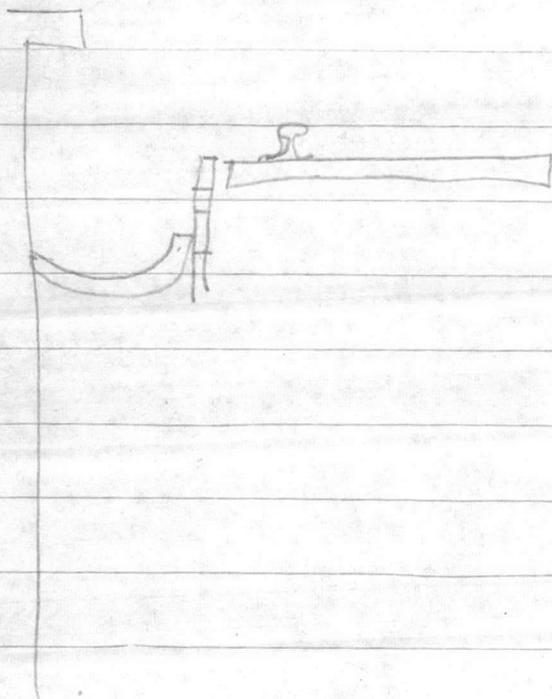


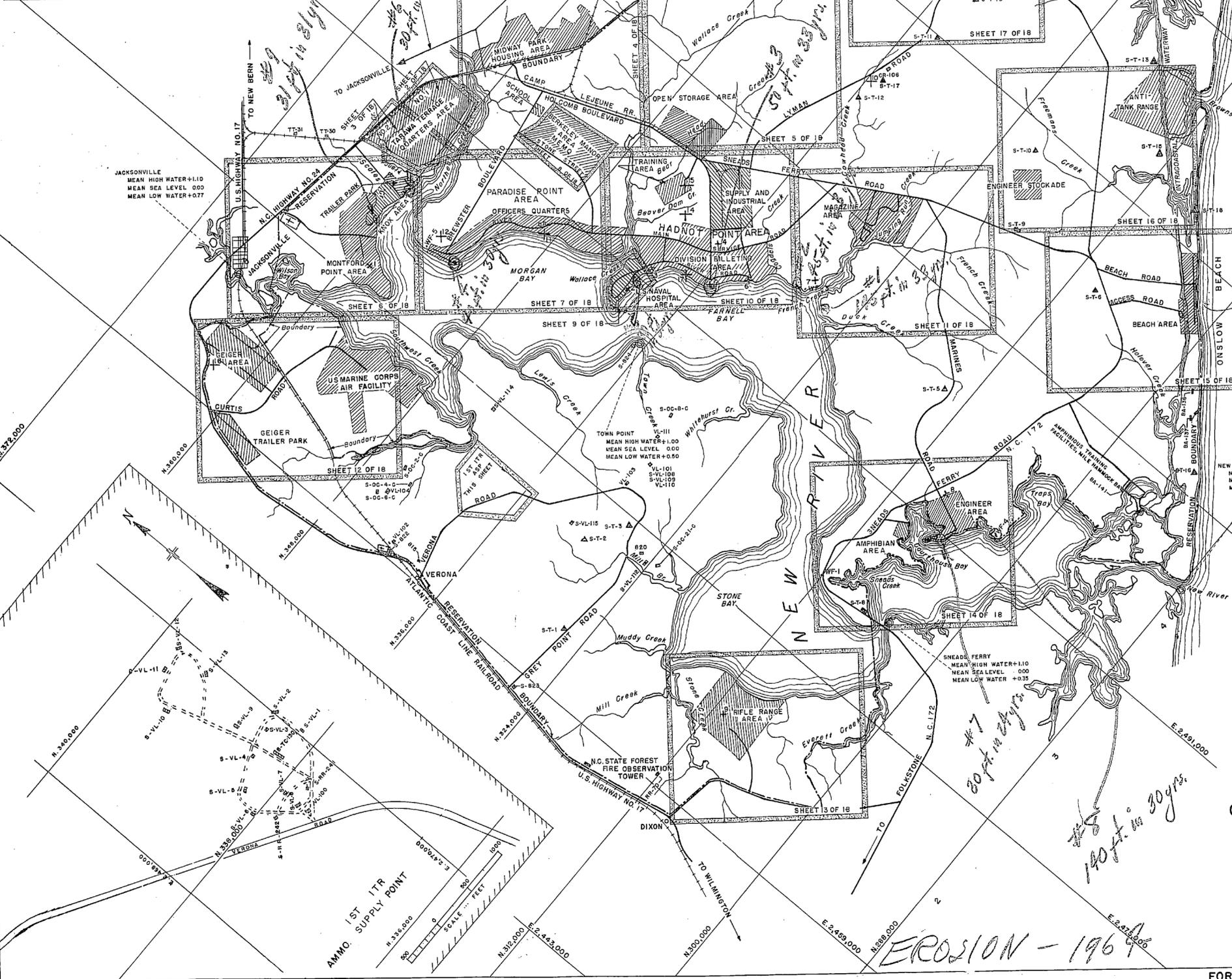
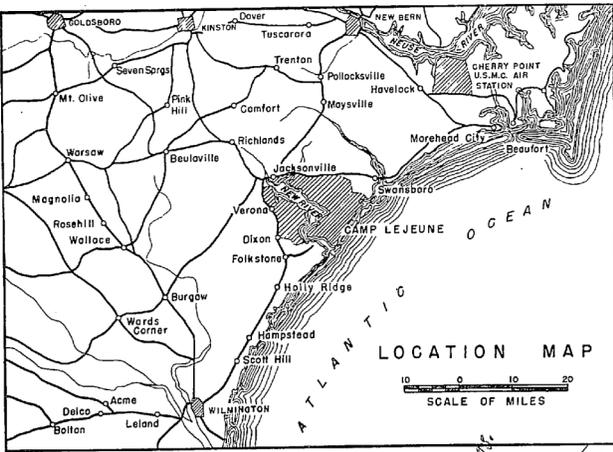
# Height of Structures

Ground to Top Tank or Structure

Structure	Location	Top Pier to Overflow	Overflow to Top Tank	Top Tank to Ball, Light, Final ±	Ground to Pier ±	Total
S-M-624	Montford Pt. Water Tank	90.2'	5.5'	5.5'	1.0	96.7'
M-625	Montford Pt. Heating Plant Smoke Stack					115'
S-TT-40	Terawa Terrace Water Tank	144'	1.7'	5'	1'	146.7'
S-MP-4004	Midway Park	129.7	3.5'	5.5'	1'	134.2
S-830	Berkeley Manor	130'	5.5'	40	1'	136.5
S-2323	Paradise Pt.	Same as S-MP-4004				134.2
S-1000	Industrial Area	133'	4.5'	5.5'	1'	138.5
S-5	Area 1	Same as S-1000				138.5
S-29	Area -5	Same as S-1000				138.5
S-724	Area 1					157.5
S-725	Radio Towers					100'
S-726	Radio Towers					100'
1700	Industrial Area Heating Plant Smoke stacks					100'
S-TC-606	Tent Camp #1 Water	148.5'	8.5'		1'	158'
S-TC-1070	Tent Camp #2 Tanks					
TC-344	Tent Camp #1	Contracted for Demolition - Completed Dec. 1965				100'
TC-941	Tent Camp #2					40'
S-BA-108	Onslow Beach Water Tank	124'	13'		1'	138'
S-133-25	Courthouse Bay Water Tank	123'	8.5'		2'	133'
S-RR-44	Rifle Range Water Tank	123'	8.5'		1'	132'

ALL TANKS ARE THERE ON TOPS BUT VERY IN HEIGHTS - 5' ADDITIONAL SHOULD BE ON TOP



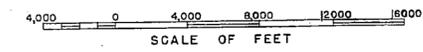


NUMBER	LOCATION	USE
746	2-C	QUARTERS - CIVILIAN
814	2-B	RANGE HOUSE
815	2-D	PUMP HOUSE
820	2-D	RANGE HOUSE
S-822	2-C	HISTORICAL MARKER (2)
S-823	1-D	HISTORICAL MARKER (1)
S-824	3-C	HISTORICAL MARKER (1)
BA-136	5-G	SMALL ARMS MAGAZINE
BA-137	5-G	SMALL ARMS MAGAZINE
BA-141	4-C	EMBARKATION OFFICE
S-825	2-C	RUSTIC BRIDGE
828	2-B	RANGE HOUSE - RANGE F-4
OS-108	5-D	ARTILLERY OBSERVATION BUILDING
TT-30	2-C	WELL HOUSE
TT-31	2-A	WELL HOUSE
RR-70	2-E	RANGE HOUSE
S-T-1000	1-B	SMALL ARMS MAGAZINE
S-T-1001	1-B	SMALL ARMS MAGAZINE
S-T-1002	1-B	SMALL ARMS MAGAZINE
S-00-2-0	2-G	CLASSROOM
S-00-4-0	2-C	"
S-00-6-0	2-G	"
S-00-8-0	2-B	"
S-00-21-C	2-E	AMMUNITION MAGAZINE
S-RR-241	2-C	"
S-RR-242	2-C	"
S-T-13-0	2-C	"
VL-100	2-C	ADMIN. BLDG.
VL-101	2-D	FIELD GALLEY AND WATER TANK
VL-102	2-G	FIRST AID STATION
VL-103	2-B	WELL HOUSE
VL-104	2-C	MESSHALL AND 3 GARBAGE HOUSES
VL-105-6-7	2-C	"
S-VL-1	2-C	AMMO. MAGAZINE
S-VL-2	2-C	"
S-VL-3	2-C	"
S-VL-4	2-C	"
S-VL-5	2-C	"
S-VL-6	2-C	"
S-VL-7	2-C	"
S-VL-8	2-C	"
S-VL-9	2-C	"
S-VL-10	2-C	"
S-VL-11	2-C	"
S-VL-12	2-C	"
S-VL-13	2-C	"
S-VL-14	2-C	"
S-VL-15	2-C	"
VL-111	2-D	OFF CHAMBER
S-VL-112	2-D	CLASSROOM
S-VL-113	2-D	"
S-VL-114	2-D	"
S-VL-115	2-D	"

- LEGEND
- ▲ FIRE CONTROL AND OBSERVATION TOWER
  - FOREST FIRE OBSERVATION TOWER
  - ⊕ HELICOPTER LANDING ZONES
  - OBSERVATION POINT
  - WF WARNING FLAGS

INDEX SHEET

CAMP LEJEUNE, NORTH CAROLINA  
SHOWING CONDITIONS ON  
30 JUNE 1963



Public Works Officer  
U.S. ARMY  
M.C.B. CLNG

EROSION

# Storm High Water Elevations

Mean Sea Level = 0.0

Wilson Bay, at South end of Jacksonville	+5.1
Montford Point, at West end of Harding Road	+5.4
Northeast Branch Railroad Bridge	+4.9
B.O.Q. Area, Paradise Point Officer's Quarters	+5.1
Hadnot Point, U.S. Naval Hospital	+4.4
Sewage Disposal Plant, Regimental Area # 5	+5.2
Sneads Ferry Hwy. Bridge	+4.9
Courthouse Bay, at end of Marines Road	+7.6
<del>_____</del>	
Ouslow Beach Bridge	+7.8
New River Inlet	+6.5





Borrow &  
Disposal  
Areas

**VALUABLE**

RETURN TO  
PUBLIC WORKS  
OFFICE  
CAMP LEJEUNE  
NORTH CAROLINA

SUBJECT Boundary Loc.  
EN Park Station Office  
Morehead City, N.C.

FIELD PARTY  
Kellum IN CHARGE  
INSTRUMENT  
NOTES  
TAPE READ  
TAPE OR ROD  
TAPE OR ROD  
INSTRUMENT No.  
TAPE No.

WEATHER  
CLEAR  
CLOUDY  
WINDY  
RAIN  
FAIR  
SNOW  
HOT  
MODERATE  
COLD  
FOG  
FIGURED BY  
NOTES CHECKED BY  
PLOTTED BY

FILE No. \_\_\_\_\_  
FLDR. No. \_\_\_\_\_  
SHEET 1-0 f  
DATE 5-3 19 57  
7+57.82

Quad. No. \_\_\_\_\_

STATION	DIST.	ANGLE ° ' "	+	H. I. BEARING	VER: ANG. DIFF.	ELEVATION
---------	-------	----------------	---	------------------	--------------------	-----------

*Evidently  
2° 30' Curve*

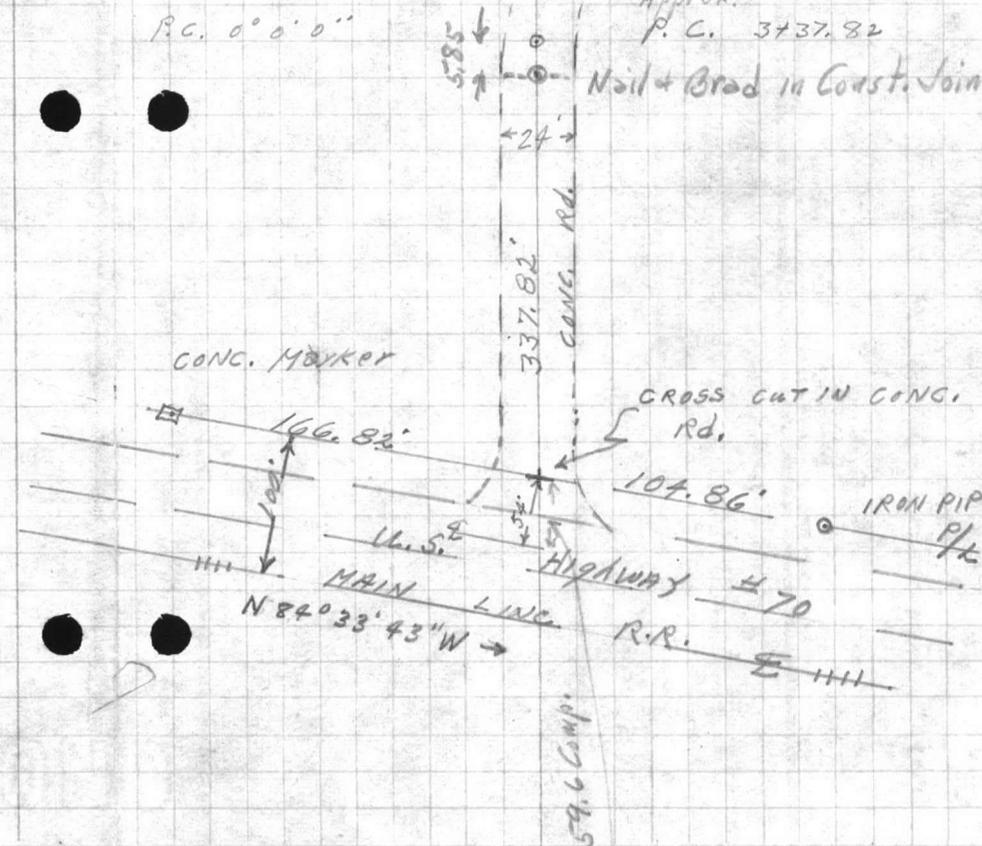
1-15-15  
1-16-30  
1-14-30  
1-05

7+37.82 --- 4° 51' 15"  
6+37.82 --- 3° 36' 00"  
5+37.82 --- 2° 19' 30"  
4+37.82 --- 1° 05' 00"  
P.C. 0° 0' 0"

6+37.82  
5+37.82  
4+37.82

Approx.  
P.C. 3+37.82

Nail + Brad in Const. Joint



ANGLE AT 1-64 56 00  
CROSS IN CONC. 3-194 48 00  
TO P.C. of MAIN- 64 56 00  
CONC. Rd.

645530  
 64  
 3 ) 1949530  
 18  
 14  
 12  
 2

645611-

120  
 48  
 3 ) 120  
 15  
 15  
 15

120  
 48  
 3 ) 120  
 15  
 15  
 15  
 3 ) 1949530  
 18  
 14  
 12  
 2

6457

**VALUABLE**

SUBJECT Boundary Loc. contd.

RETURN TO  
PUBLIC WORKS  
OFFICE  
CAMP LEJEUNE  
NORTH CAROLINA

**FIELD PARTY**

\_\_\_\_ IN CHARGE  
\_\_\_\_ INSTRUMENT  
\_\_\_\_ NOTES  
\_\_\_\_ TAPE READ  
\_\_\_\_ TAPE OR ROD  
\_\_\_\_ TAPE OR ROD  
\_\_\_\_ INSTRUMENT NO.  
\_\_\_\_ TAPE NO.

**WEATHER**

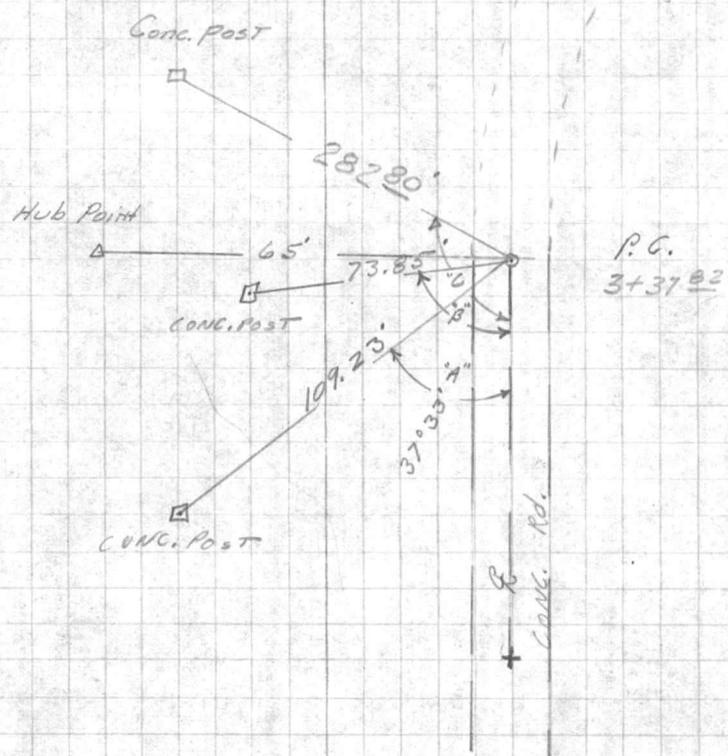
CLEAR \_\_\_\_\_  
CLOUDY \_\_\_\_\_  
WINDY \_\_\_\_\_  
RAIN \_\_\_\_\_  
FAIR \_\_\_\_\_  
SNOW \_\_\_\_\_  
HOT \_\_\_\_\_  
MODERATE \_\_\_\_\_  
COLD \_\_\_\_\_  
FOG \_\_\_\_\_  
FIGURED BY \_\_\_\_\_  
NOTES CHECKED BY \_\_\_\_\_  
PLOTTED BY \_\_\_\_\_

FILE No. \_\_\_\_\_  
FLDR. No. \_\_\_\_\_  
SHEET 2-04  
DATE 5-3-57

Quad. No. \_\_\_\_\_

STATION	DIST.	ANGLE			H. I. BEARING	VER. ANG. DIFF.	ELEVATION
		°	'	"			
C		140	53	00			
"B"		64	34	30"			
"A"		37	33	00"			

Standard Oil Lease





**VALUABLE**

SUBJECT Bench Levels  
ENR. office.

RETURN TO  
 PUBLIC WORKS  
 OFFICE  
 CAMP LEJEUNE  
 NORTH CAROLINA

**FIELD PARTY**

\_\_\_\_\_  
 IN CHARGE  
 \_\_\_\_\_  
 INSTRUMENT  
 \_\_\_\_\_  
 NOTES  
 \_\_\_\_\_  
 TAPE READ  
 \_\_\_\_\_  
 TAPE OR ROD  
 \_\_\_\_\_  
 TAPE OR ROD  
 \_\_\_\_\_  
 INSTRUMENT NO. \_\_\_\_\_  
 TAPE NO. \_\_\_\_\_

**WEATHER**

CLEAR \_\_\_\_\_  
 CLOUDY \_\_\_\_\_  
 WINDY \_\_\_\_\_  
 RAIN \_\_\_\_\_  
 FAIR \_\_\_\_\_  
 SNOW \_\_\_\_\_  
 HOT \_\_\_\_\_  
 MODERATE \_\_\_\_\_  
 COLD \_\_\_\_\_  
 FOG \_\_\_\_\_

FILE No. \_\_\_\_\_

FLDR. No. \_\_\_\_\_

FIGURED BY \_\_\_\_\_ SHEET 3-0f

NOTES CHECKED BY \_\_\_\_\_ DATE 5-3-17

PLOTTED BY \_\_\_\_\_

Quad. No. \_\_\_\_\_

STATION	DIST.	ANGLE ° ' "	+	H. I. BEARING	VER. ANG. DIFF.	ELEVATION	
B.M. #5						10.94	M.L.W. water TANK CONC. 2' support
			3.34	14.28			
T.P.					2.55	11.73	
			1.81	13.54			
B.M. (T.P.)					1.54	9.00	CROSS MARKED IN E concrete Rd. ON P.C. of Curve - STA. 3+37.82 (see sheet #1)
			4.45	13.45			
T.P.					1.78	11.67	
			2.59	14.26			
B.M. #5					3.29	10.97	W.S. PG ON water TANK

STATION TO  
PUBLIC WORKS  
OFFICE  
CAMP BENTON  
NORTH CAROLINA

STATION  
INSTRUMENTS

H. I. BOARDING

ERR AND  
ELEVATION

FIELD PARTY  
IN CHARGE  
INSTRUMENT  
NOTES  
TIME READ  
DATE  
LOCATION OR BOX  
ELEVATION  
TAX NO.

WEATHER  
CLEAR  
CLOUDY  
WINDY  
RAIN  
FOG  
FROST  
HAIL  
MIST  
OTHER

TIME  
DATE  
LOCATION

Madix Corp.

Bldg.

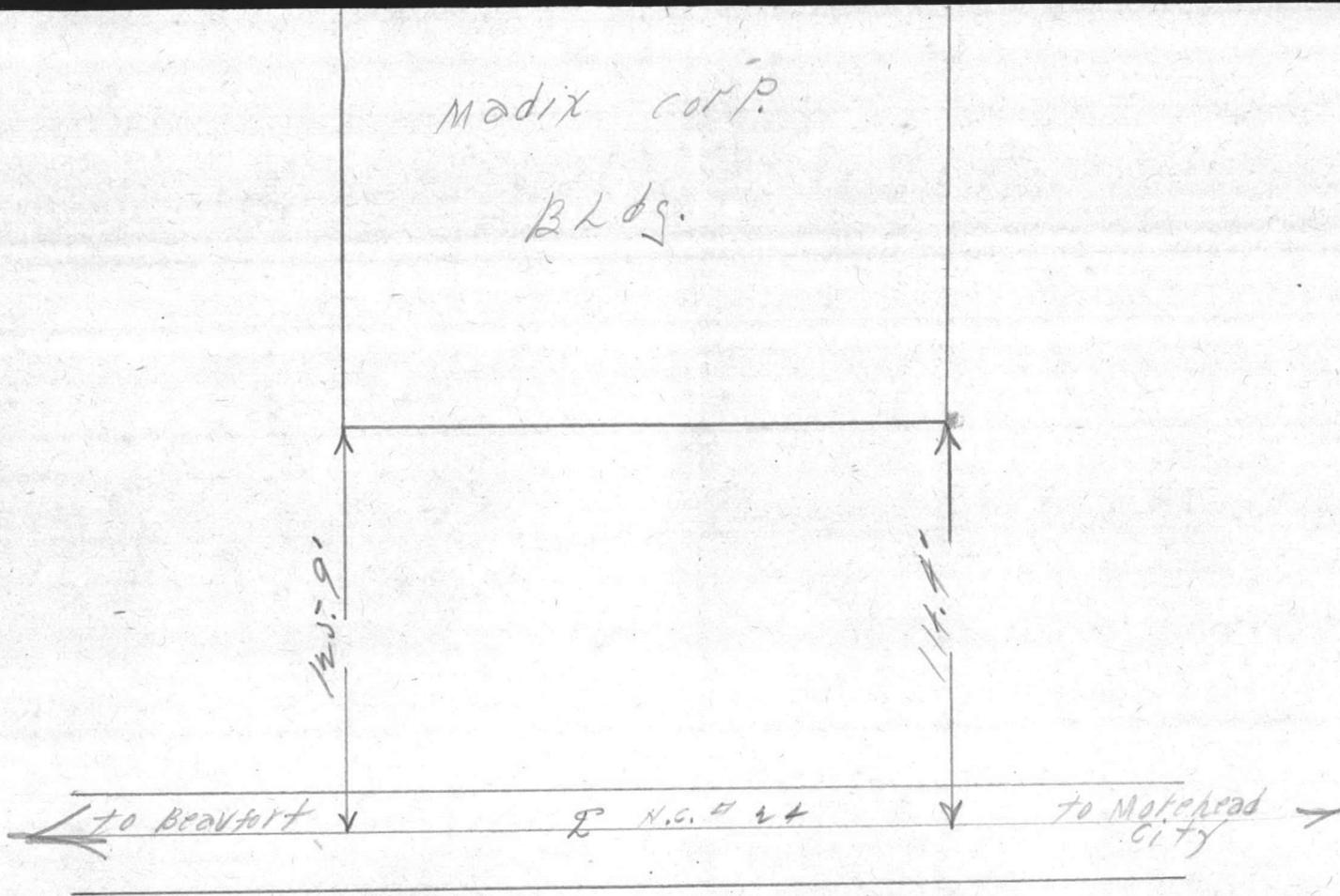
120'-9"

114'-4"

to Beaufort

R.N.S. # 24

to Morehead City





**VALUABLE**

SUBJECT Bldg. + storage tank  
LOCATION - MORCHEAD CITY  
PORT TERMINAL

Return To  
 Public Works  
 Office  
 Camp Lejeune  
 North Carolina

FIELD PARTY  
KELVIN In Charge  
 \_\_\_\_\_ Instrument  
 \_\_\_\_\_ Notes  
 \_\_\_\_\_ Tape Read  
 \_\_\_\_\_ Tape or Rod  
 \_\_\_\_\_ Tape or Rod  
 \_\_\_\_\_ Instrument No.  
 \_\_\_\_\_ Tape No.

WEATHER  
 Clear \_\_\_\_\_  
 Cloudy \_\_\_\_\_  
 Windy \_\_\_\_\_  
 Rain \_\_\_\_\_  
 Fair \_\_\_\_\_  
 Snow \_\_\_\_\_  
 Hot \_\_\_\_\_  
 Moderate \_\_\_\_\_  
 Cold \_\_\_\_\_  
 Fog \_\_\_\_\_  
 Figured By \_\_\_\_\_  
 Notes Checked By \_\_\_\_\_  
 Plotted By \_\_\_\_\_

FILE No. \_\_\_\_\_  
 Fldr. No. \_\_\_\_\_  
 Sheet 1-05-14  
 Date 5-18-49

Quad. No. \_\_\_\_\_

Station	Dist.	Angle	"	+	H. I. Bearing	Ver: Ang. Diff.	Elevation		
T.P.I. #1 - B.S. - cor - transit shed									
	210'	341°	16'30"	✓				COR. BLDG. #1	
	195'	340°	25'00"	✓				COR. " " " "	
	202'	336°	05'30"	✓				" " " "	
	153'	312°	11'00"	✓				COR. BLDG. #2	
	148'	308°	48'00"	✓				" " " "	
	138'	305°	03'30"	✓				COR. WATER TANK	
	112'	314°	44'00"	✓				COR. " " " "	
	92'	299°	10'30"	✓				" " " "	
	122'	291°	31'30"	✓				" " " "	
	145'	302°	10'00"	✓				COR. BLDG. #3	
	140'	305°	18'00"	✓				" " " "	
	148'	285°	02'00"	✓				COR. FENCE	
	349'	248°	08'30"	✓				COR. FENCE	OT+OO BACK SITE
	367'	293°	10'30"	✓				COR. BLDG. #4	
	397'	293°	00'00"	✓				" " " "	
	366'	275°	43'30"	✓				COR. BLDG. #4	
	71'	237°	07'00"	✓				COR. BLDG. #5	
	91'	244°	40'30"	✓				" " " "	
	101'	217°	00'00"	✓				COR. BLDG. #5	
	144'	204°	18'30"	✓				COR. FENCE	
	163'	253°	11'15"	✓				T TONK #2	

WATER TANK

○ P.I. #1  
2+26

VAIAAIE

SUBJECT

Return To  
Public Works  
Office  
Caring House  
North Carolina

Station

Date

Time

Var. in  
Dir.

Evaporation

FIELD PARTY

In Charge

Instrument

Notes

Time Read

Time of Day

Time of Day

Station No.

Case No.

WEATHER

Snow

Fog

Cloudy

Variable

Rain

Clear

Lighted By

Checked By

Checked By

THE N

Case No.

Checked By

Checked By

Checked By

COAST GUARD

VALUABLE

SUBJECT Port Location  
CONT'd.

Return To  
 Public Works  
 Office  
 Camp Lejeune  
 North Carolina

FIELD PARTY

\_\_\_\_\_ In Charge  
 \_\_\_\_\_ Instrument  
 \_\_\_\_\_ Notes  
 \_\_\_\_\_ Tape Read  
 \_\_\_\_\_ Tape or Rod  
 \_\_\_\_\_ Tape or Rod  
 \_\_\_\_\_ Instrument No.  
 \_\_\_\_\_ Tape No.

WEATHER

Clear \_\_\_\_\_  
 Cloudy \_\_\_\_\_  
 Windy \_\_\_\_\_  
 Rain \_\_\_\_\_  
 Fair \_\_\_\_\_  
 Snow Hot \_\_\_\_\_  
 Moderate \_\_\_\_\_  
 Cold \_\_\_\_\_  
 Fog \_\_\_\_\_  
 Figured By \_\_\_\_\_  
 Notes Checked By \_\_\_\_\_  
 Plotted By \_\_\_\_\_

FILE No. \_\_\_\_\_  
 Fldr. No. \_\_\_\_\_  
 Sheet 2-05-14  
 Date 5-18-19 29

Quad. No. \_\_\_\_\_

Station	Dist.	Angle	H. I. Bearing	Ver. Ang. Diff.	Elevation	
	160'	274° 47' 35" ✓				RANK # 1
	318'	2° 58' 00"				R.R.
	334'	3° 40' 00"				Edge of drive
	315'	6° 23' 30"				Edge of drive
	446'	4° 03' 30"				R.R.
	200'	5° 57' 00"				Edge of drive
	190'	10° 45' 00"				" " "
	135'	10° 19'				Radius of drive
	124'	7° 21'				of radius
	92'	356° 47'				Radius Point
	147'	0° 48'				Edge of Road
	160'	349° 34'				" " "
	166'	340° 49'				" " "
	78'	333° 50'				Radius point of Road
	19'	344° 54'				Edge of Road
	34'	269° 24'				" " "
	17'	119° 05'				P.O. R.R.
	50'	307° 04'				Point of switch
	128'	182° 26'				Edge of Road
	177'	191° 25'				Edge of Road
	260'	187° 49'				" " "
	303'	181° 07'				" " "
	260'	198° 39' ✓				RANK # 6
	207'	202° 41'				cor. boiler room
	194'	205° 27'				" " "

P.I. #1221 212° 05' 30"





VALUABLE

Return to  
Public Works  
Office  
Camp Johnson  
North Carolina

SUBJECT

Station

Dist.

Angle

Reading

Ht.

Vertical Elevation  
Dist.

FIELD PARTY

In Charge

Assistant

Notes

Time Read

Type of Rod

Time of Rod

Remarks

Date

WEATHER

Clear

Cloudy

Hot

Windy

Cold

Rain

Fog

Signed By

Checked By

Plotted By

Check No.

FILE NO.

Date

Sheet

Date

VALUABLE

SUBJECT

PORT location

Return To  
Public Works  
Office  
Camp Lejeune  
North Carolina

CONT'd.

FIELD PARTY

\_\_\_\_ In Charge  
\_\_\_\_ Instrument  
\_\_\_\_ Notes  
\_\_\_\_ Tape Read  
\_\_\_\_ Tape or Rod  
\_\_\_\_ Tape or Rod  
\_\_\_\_ Instrument No.  
\_\_\_\_ Tape No.

WEATHER

Clear \_\_\_\_\_  
Cloudy \_\_\_\_\_  
Windy \_\_\_\_\_  
Rain \_\_\_\_\_  
Fair \_\_\_\_\_  
Snow \_\_\_\_\_  
Hot \_\_\_\_\_  
Moderate \_\_\_\_\_  
Cold \_\_\_\_\_  
Fog \_\_\_\_\_  
Figured By \_\_\_\_\_  
Notes Checked By \_\_\_\_\_  
Plotted By \_\_\_\_\_

FILE No. \_\_\_\_\_

Fldr. No. \_\_\_\_\_

Sheet

4 of 14

Date

5-18-49

Quad. No. \_\_\_\_\_

Station	Dist.	Angle	"	+	H. I. Bearing	Ver. Ang. Diff.	Elevation
---------	-------	-------	---	---	---------------	-----------------	-----------

T.P.I. #1 - B.S. P.I. #1

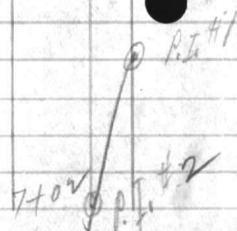
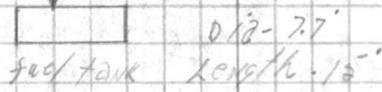
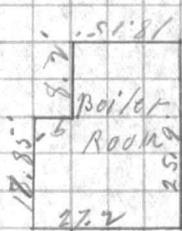
67'	172° 59'	✓					
86'	212° 03'	✓					
125'	254° 12'	✓					
55'	286° 44'	✓					
97'	312° 24'	✓					
41'	253° 15'	✓					
40'	241° 33'	✓					
44'	240° 54'	✓					
45'	226° 27'	✓					

Storage tank #5 - CIR =  
Storage tank #4  
Storage tank #7  
Storage tank #3  
COR. FENCE  
COR. Pump house  
" " "  
" " "

T.P.I. #1 - B.S. Transit shed COR.

P.I. #2 176° 14' 17"

Transit shed



TRANSIT shed

Boiler Room  
concrete walls  
metal roof.

0+00

7+26  
P.I. #1

VALERIE

Return to  
Public Works  
Office  
Camp Station  
North Carolina

SUBJECT

Date

Time

Location

Remarks

FIELD PARTY

In Charge

Members

Notes

Time

Place

Remarks

Time

WEATHER

Clouds

Wind

Temp

Humidity

Pressure

Visibility

Other

FIELD No.

Field No.

Date

Time

FIELD No.

FIELD PARTY

VALUABLE

SUBJECT Port Location  
contd.

Return To  
 Public Works  
 Office  
 Camp Lejeune  
 North Carolina

FIELD PARTY

In Charge \_\_\_\_\_  
 Instrument \_\_\_\_\_  
 Notes \_\_\_\_\_  
 Tape Read \_\_\_\_\_  
 Tape or Rod \_\_\_\_\_  
 Tape or Rod \_\_\_\_\_  
 Instrument No. \_\_\_\_\_  
 Tape No. \_\_\_\_\_

WEATHER

Clear \_\_\_\_\_  
 Cloudy \_\_\_\_\_  
 Windy \_\_\_\_\_  
 Rain \_\_\_\_\_  
 Fair \_\_\_\_\_  
 Snow \_\_\_\_\_  
 Hot \_\_\_\_\_  
 Moderate \_\_\_\_\_  
 Cold \_\_\_\_\_  
 Fog \_\_\_\_\_  
 Figured By \_\_\_\_\_  
 Notes Checked By \_\_\_\_\_  
 Plotted By \_\_\_\_\_

FILE No. \_\_\_\_\_  
 Fldr. No. \_\_\_\_\_  
 Sheet 5-07-14  
 Date 5-18-49

Quad. No. \_\_\_\_\_

Station	Dist.	Angle	"	+	H. I. Bearing	Vert. Ang. Diff.	Elevation
---------	-------	-------	---	---	---------------	------------------	-----------

Storage tank #5 = cap. 525,000 gal.

dia - 48'

Ht - 40'

Storage tank #4 = cap. 525,000 gal.

dia - 48'

Ht - 40'

Storage tank #3 = dia - 45.6'

cap. 500,000 gal.

Ht - 40.5'

Storage tank #2 dia - 34.9'

Ht - 35'

cap. 250,000 gal.

Storage tank #1 dia - 34.9'

Ht - 35'

cap. 250,000 gal.

Storage tank #6 dia. 67'

Ht - 40'

cap. 1,000,000 gal.

Storage tank #7 dia - 90'

Ht - 48'

cap. 2,250,000 gal.

Storage tanks No's 1 thru 6 -

Asphalt storage

#7 - Bunker "C" fuel oil

VALUABLE

Return To  
Public Works  
Office  
Camp Lejeune  
North Carolina

SUBJECT



Station

Dist

Angle  
w

H. L.  
Gearty

Vol. W. E. Cassin  
Dir

Table No.  
Treatment No.

Table of Rods

FIELD PARTY

WEATHER

Clear  
Cloudy  
Windy  
Rain  
Fog

Plotted by

Checked by

Plotted by

Checked by

FILE No.

Fig. No.

Sheet

Date

RECEIVED  
MAY 19 1954

VALUABLE

SUBJECT

Port Location

Return To  
Public Works  
Office  
Camp Lejeune  
North Carolina

CONF.

FIELD PARTY

In Charge \_\_\_\_\_  
Instrument \_\_\_\_\_  
Notes \_\_\_\_\_  
Tape Read \_\_\_\_\_  
Tape or Rod \_\_\_\_\_  
Tape or Rod \_\_\_\_\_  
Instrument No. \_\_\_\_\_  
Tape No. \_\_\_\_\_

WEATHER

Clear \_\_\_\_\_  
Cloudy \_\_\_\_\_  
Windy \_\_\_\_\_  
Rain \_\_\_\_\_  
Fair \_\_\_\_\_  
Snow \_\_\_\_\_  
Hot \_\_\_\_\_  
Moderate \_\_\_\_\_  
Cold \_\_\_\_\_  
Fog \_\_\_\_\_  
Figured By \_\_\_\_\_  
Notes Checked By \_\_\_\_\_  
Plotted By \_\_\_\_\_

FILE No. \_\_\_\_\_

Fldr. No. \_\_\_\_\_

Sheet 6-05-14

Date 5-18-44

Quad. No. \_\_\_\_\_

Station	Dist.	Angle	+	H. I. Bearing	Ver: Ang. Diff.	Elevation
---------	-------	-------	---	---------------	-----------------	-----------

P.P.T. # V - B. S. P.Z. #1

560' 476° 54'

334' 275° 26'

403' 276° 13'

~~406' 277° 01'~~

206' 270° 01'

20' 191° 06'

193' 105° 33'

466' 103° 35'

353' 102° 45'

449' 102° 43'

530' 104° 44'

720' 107° 58'

710' 105° 44'

700' 109° 01'

580' 105° 41'

570' 106° 54'

425' 108° 14'

376' 109° 00'

405' 113° 54'

77' 140° 44'

164' 268° 46'

300' 269° 17'

450' 272° 34'

600' 274° 07'

402' 268° 27' ✓

436' 286° 13' ✓

20' 299° 35' ✓

24' 324° 04'

R Newport River Bridge - Bridge extends  
Approx. 2000' towards Beaufort.

R Bridge  
END of Bridge north side - end towards  
Morehead City.

END of Bridge south side  
R Highway #24 - 22' wide  
R H.S. #24 AND spur track  
R H.S. #14 AND spur track  
R H.S. #24 AND spur track  
R H.S. #24 AND spur track  
R H.S. #24

R P.R.  
R H.S. #24  
R P.R.  
R P.R.  
R P.R.  
R spur track  
POINT OF SWITC  
R P.R. POINT OF SWITC  
R P.R.  
R P.R. ~~POINT OF SWITC~~  
R P.R. ON FENCE  
R FENCE  
R FENCE  
R FENCE  
END OF FENCE  
CAR. FENCE  
CAR. FENCE  
R spur track

VALENTINE  
Return to  
Public Works  
Office  
Camp Lejeune  
North Carolina

SUBJECT

Station  
Date  
M. S. No.  
Yr. of  
Ordn.  
Elevation

FIELD PARTY

Station  
Date  
Instrument  
Notes  
Type of Rod  
Type of Rod  
Station No.  
Date

WEATHER

Clear  
Cloudy  
Windy  
Mist  
Fog  
Rain  
Thunder  
Notes  
Checked by  
Plotted by

FILE NO.

FILE NO.

SHEET

DATE

FILE NO.

VALUABLE

SUBJECT

PORT LOCATION

CONF.

Return To  
Public Works  
Office  
Camp Lejeune  
North Carolina

## FIELD PARTY

\_\_\_\_\_ In Charge  
 \_\_\_\_\_ Instrument  
 \_\_\_\_\_ Notes  
 \_\_\_\_\_ Tape Read  
 \_\_\_\_\_ Tape or Rod  
 \_\_\_\_\_ Tape or Rod  
 \_\_\_\_\_ Instrument No.  
 \_\_\_\_\_ Tape No.

## WEATHER

Clear \_\_\_\_\_  
 Cloudy \_\_\_\_\_  
 Windy \_\_\_\_\_  
 Rain \_\_\_\_\_  
 Fair \_\_\_\_\_  
 Snow \_\_\_\_\_  
 Hot \_\_\_\_\_  
 Moderate \_\_\_\_\_  
 Cold \_\_\_\_\_  
 Fog \_\_\_\_\_  
 Figured By \_\_\_\_\_  
 Notes Checked By \_\_\_\_\_  
 Plotted By \_\_\_\_\_

FILE No. \_\_\_\_\_

Fldr. No. \_\_\_\_\_

Sheet

7-08-14

Date

5-18-1949

Quad. No. \_\_\_\_\_

Station	Dist.	Angle " +	H. I. Bearing	Ver: Ang. Diff.	Elevation
40'	446° 07'				
50'	350° 47'	✓			
43'	3° 50'				
90'	359° 35'				
87'	343° 45'	✓			
66'	340° 23'	✓			
253'	3° 07'	✓			
271'	180° 11'	✓			
260'	23° 40'				
207'	670° 53'				
200'	690° 16'	✓			
149'	89° 41'				
149'	93° 08'	✓			
240'	97° 11'	✓			
165'	96° 13'	✓			
45'	42° 31'	✓			
45'	320° 44'	✓			
185'	297° 06'	✓			
187'	32° 39'	✓			
167'	54° 22'	✓			
150'	69° 06'	✓			
187'	60° 33'				
148'	55° 29'				
139'	57° 10'				
145'	25° 05'				
156'	25° 18'				
184'	26° 50'				
244'	21° 29'				
245'	14° 03'				
169'	9° 07'				
195'	13° 31'				

spur tracks extend  
 15' beyond east end  
 of asphalt unloading  
 vents.

Edge Drive

2 spur track  
 cor. fence

Radj's point drive

cor. fence south side of gate  
 cor. " north " " "

cor. fence

cor. fence

2 spur track

2 spur track

fence line

2 spur track

cor. fence

cor. fence

cor. fence

cor. fence

west end of asphalt unloading vents

east end of " "

south east end of tank truck loading rack

north west end of " "

metal shed roof.

Edge of drive

" " "

" " "

" " "

" " "

" " "

" " "

" " "

" " "

VALUABLE

Return To  
Public Works  
Office  
Camp Lejeune  
North Carolina

SUBJECT

Station

Date

Base

Ver. O.R.

Elevation

FIELD PARTY

In Charge

Instrument

Notes

Scale

Time of Day

Time of Day

Time

WEATHER

Clear

Partly

Cloudy

Windy

Misty

Fog

Snow

Ice

FILE No.

Field No.

Date

Date

Time

Figured By

Checked By

Plotted By

VALUABLE

SUBJECT

Pot location

Return To  
Public Works  
Office  
Camp Lejeune  
North Carolina

cont'd.

## FIELD PARTY

\_\_\_\_\_ In Charge  
 \_\_\_\_\_ Instrument  
 \_\_\_\_\_ Notes  
 \_\_\_\_\_ Tape Read  
 \_\_\_\_\_ Tape or Rod  
 \_\_\_\_\_ Tape or Rod  
 \_\_\_\_\_ Instrument No.  
 \_\_\_\_\_ Tape No.

## WEATHER

Clear \_\_\_\_\_  
 Cloudy \_\_\_\_\_  
 Windy \_\_\_\_\_  
 Rain \_\_\_\_\_  
 Fair \_\_\_\_\_  
 Snow \_\_\_\_\_  
 Hot \_\_\_\_\_  
 Moderate \_\_\_\_\_  
 Cold \_\_\_\_\_  
 Fog \_\_\_\_\_

FILE No. \_\_\_\_\_

Fldr. No. \_\_\_\_\_

Sheet

8-05-14

Date

5-18-19

Quad. No. \_\_\_\_\_

Station	Dist.	Angle	"	+	H. I. Bearing	Ver: Ang. Diff.	Elevation
---------	-------	-------	---	---	------------------	--------------------	-----------

213' 21° 53'

P.I. # 1 410' 99° 50'

T. P.I. # 3 - R.S. P.I. # 2

113' 8° 30' ✓

115' 18° 37' ✓

96' 21° 32' ✓

91' 9° 26' ✓

213' 20° 21' ✓

92' 319° 09' ✓

76' 267° 59' ✓

61' 264° 15' ✓

107' 226° 35' ✓

160' 220° 01' ✓

225' 211° 01' ✓

243' 207° 40' ✓

310' 203° 48' ✓

367' 202° 00' ✓

371' 204° 02' ✓

481' 200° 24' ✓

472' 201° 56' ✓

500' 195° 41' ✓

365' 196° 56' ✓

221' 185° 42' ✓

101' 55° 24' ✓

159' 78° 31' ✓

54' 115° 04' ✓

144' 161° 13' ✓

Edge of Drive

cot. fence - sub sta.

" " " "

" " " "

" " " "

cot fence Frank gas storage

F.I. R.R.

P.S. R.R.

F.I.

P.S.

P.S.

F.I.

F.I.

P.S.

P.S.

F. R.R. MAIN line

F.I.

P.S. NORTH RAIL

F. HY. #24 AND SPUR TRACK

F. HY. #24

cot. fence.

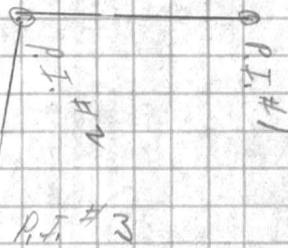
E TANK # 13

E TANK # 12

E TANK # 14

E TANK # 15

Power Line 8' from edge of  
 HY. #24 on south side  
 Poles approx 150' apart.



VALUABLE

Return to  
Public Works  
Office  
Camp Leland  
North Carolina

SUBJECT

Station

Address

Post Office

State

FIELD PARTY

In Charge

Location

Notes

Date

Time

Remarks

Remarks

WEATHER

Snow

Fog

Cloudy

Windy

Clear

Light

Dark

FILE NO.

DATE

TIME

BY

DATE



VALUABLE

SUBJECT part location  
contd.

Return To  
 Public Works  
 Office  
 Camp Lejeune  
 North Carolina

FIELD PARTY

In Charge \_\_\_\_\_  
 Instrument \_\_\_\_\_  
 Notes \_\_\_\_\_  
 Tape Read \_\_\_\_\_  
 Tape or Rod \_\_\_\_\_  
 Tape or Rod \_\_\_\_\_  
 Instrument No. \_\_\_\_\_  
 Tape No. \_\_\_\_\_

WEATHER

Clear \_\_\_\_\_  
 Cloudy \_\_\_\_\_  
 Windy \_\_\_\_\_  
 Rain \_\_\_\_\_  
 Fair \_\_\_\_\_  
 Snow \_\_\_\_\_  
 Hot \_\_\_\_\_  
 Moderate \_\_\_\_\_  
 Cold \_\_\_\_\_  
 Fog \_\_\_\_\_  
 Figured By \_\_\_\_\_  
 Notes Checked By \_\_\_\_\_  
 Plotted By \_\_\_\_\_

FILE No. \_\_\_\_\_  
 Fldr. No. \_\_\_\_\_  
 Sheet 9-01-14  
 Date 5-19-59

Quad. No. \_\_\_\_\_

Station	Dist.	Angle	"	+	H. I. Bearing	Ver. Ang. Diff.	Elevation
---------	-------	-------	---	---	---------------	-----------------	-----------

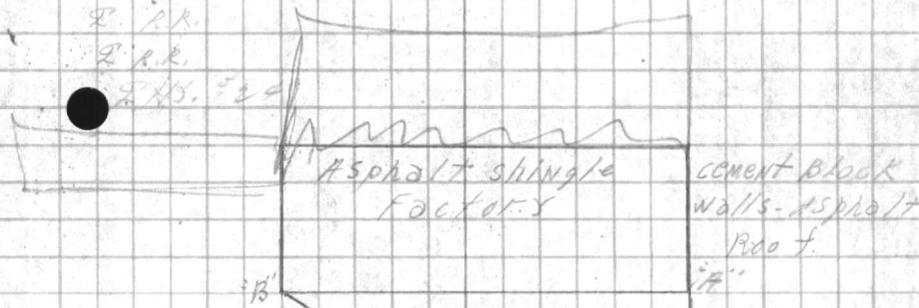
P.I. #4 331' 175° 33'

T- P.I. #4 - B.S. P.I. #3

335'	197° 01'	✓
460'	157° 16'	✓
274'	237° 01'	✓
356'	228° 43'	✓
347'	227° 06'	✓
345'	225° 18'	✓
330'	220° 06'	✓
445'	216° 57'	✓
283'	210° 44'	✓
340'	178° 38'	✓
169'	63° 53'	✓

E spur track  
 E "  
 E " " P.T.  
 cot. fence

60K #1 shingle factory  
 cot. B "  
 F.I.  
 E R.R.  
 E R.R.  
 E R.R.  
 E.H.S. #3



P.I. #5 527' 57° 47'  
 19497

T- P.I. #5 - B.S. P.I. #4

91'	259° 05'	✓
340'	129° 12'	✓
439'	107° 57'	✓
161'	80° 16'	✓
149'	53° 26'	✓
161'	27° 30'	✓

cot. fence  
 " "  
 " "  
 E tank #8  
 E " #9  
 E tank #10

P.I. #6 271' 139° 41'  
 29+71

P.I. #3

TABLE  
Return to  
Office  
Cable Station  
Main Building

SUBJECT

FIELD PARTY

WEATHER

FILE NO.  
Date  
Time

by Captain  
Instrument  
Notes  
Type of  
Type of  
Type of

Clear  
Snow  
Rain  
Fog  
Thunder  
Lightning  
Checked by  
Checked by

Station  
Date  
Time  
Wind  
Barometer  
Thermometer  
Hygrometer

RECORDED

**VALUABLE**

SUBJECT

*Port Location  
cont'd.*Return To  
Public Works  
Office  
Camp LeJeune  
North Carolina

## FIELD PARTY

In Charge \_\_\_\_\_  
Instrument \_\_\_\_\_  
Notes \_\_\_\_\_  
Tape Read \_\_\_\_\_  
Tape or Rod \_\_\_\_\_  
Tape or Rod \_\_\_\_\_  
Instrument No. \_\_\_\_\_  
Tape No. \_\_\_\_\_

## WEATHER

Clear \_\_\_\_\_  
Cloudy \_\_\_\_\_  
Windy \_\_\_\_\_  
Rain \_\_\_\_\_  
Fair \_\_\_\_\_  
Snow \_\_\_\_\_  
Hot \_\_\_\_\_  
Moderate \_\_\_\_\_  
Cold \_\_\_\_\_  
Fog \_\_\_\_\_

FILE No. \_\_\_\_\_

Fldr. No. \_\_\_\_\_

Sheet

*10-08-17*

Date

*5-19-88*

Figured By \_\_\_\_\_

Notes Checked By \_\_\_\_\_

Plotted By \_\_\_\_\_

Quad. No. \_\_\_\_\_

Station	Dist.	Angle ° ' "	+	H. I. Bearing	Ver: Ang. Diff.	Elevation
---------	-------	----------------	---	------------------	--------------------	-----------

*A.P.I. #6 - B.S. P.I. #5**309' 57" 17'**2 TANK # 11**36" 198" 06'**cor. transit shed. 0400*

AVAILABLE

Return To  
Public Works  
Office  
Camp Station  
North Carolina

SUBJECT

Section

Date

Angle

Base

Dist

711 225 Elevation

FIELD PARTY

In Charge

Instrument

Notes

Tape Read

Time of Day

Time of Day

Instrument

Tape No.

WEATHER

Clear

Cloudy

Fog

Light

Heavy

Checked By

Plotted By

FILE NO.

Plot

Sheet

Date

RECEIVED

VALUABLE

SUBJECT \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Return To  
 Public Works  
 Office  
 Camp Lejeune  
 North Carolina

FIELD PARTY

\_\_\_\_\_ In Charge  
 \_\_\_\_\_ Instrument  
 \_\_\_\_\_ Notes  
 \_\_\_\_\_ Tape Read  
 \_\_\_\_\_ Tape or Rod  
 \_\_\_\_\_ Tape or Rod  
 \_\_\_\_\_ Instrument No.  
 \_\_\_\_\_ Tape No.

WEATHER

Clear  
 Cloudy  
 Windy  
 Rain  
 Fair

Snow  
 Hot  
 Moderate  
 Cold  
 Fog

FILE No. \_\_\_\_\_

Fldr. No. \_\_\_\_\_

Sheet 11-05-14

Date 5-19-59

Figured By \_\_\_\_\_  
 Notes Checked By \_\_\_\_\_  
 Plotted By \_\_\_\_\_

Quad. No. \_\_\_\_\_

Station	Dist.	Angle	H. I. Bearing	Ver. Ang. Diff.	Elevation
---------	-------	-------	---------------	-----------------	-----------

TANK #8  
 88-OCT. { DIA - 67'  
 HT - 48'  
 CAP - 1,250,000 GAL.

TANK #9  
 115/145 OCT. { DIA - 55'  
 HT - 48'  
 AVIATION CAP - 845,000 GAL.

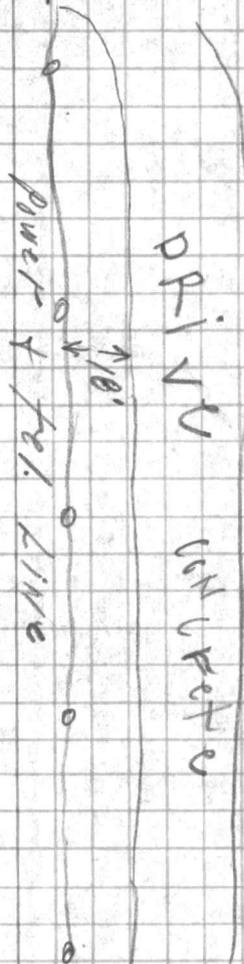
TANK #10  
 KER. { DIA - 55'  
 HT - 48'  
 CAP - 845,000 GAL.

TANK #11  
 #2 FUEL OIL { DIA - 60'  
 HT - 48'  
 CAP - 1,000,000 GAL.

TANK #12  
 AVIATION OCT-91 { DIA - 48'  
 HT - 48'  
 CAP - 640,000 GAL.

TANK #13  
 #3 FUEL OIL { DIA - 55'  
 HT - 48'  
 CAP - 850,000 GAL.

TRANSIT  
 shed





VALUABLE

SUBJECT \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Return To  
Public Works  
Office  
Camp Lejeune  
North Carolina

FIELD PARTY

\_\_\_\_\_ In Charge  
\_\_\_\_\_ Instrument  
\_\_\_\_\_ Notes  
\_\_\_\_\_ Tape Read  
\_\_\_\_\_ Tape or Rod  
\_\_\_\_\_ Tape or Rod  
\_\_\_\_\_ Instrument No.  
\_\_\_\_\_ Tape No.

WEATHER

Clear  
Cloudy  
Windy  
Rain  
Fair  
Snow  
Hot  
Moderate  
Cold  
Fog  
Figured By \_\_\_\_\_  
Notes Checked By \_\_\_\_\_  
Plotted By \_\_\_\_\_

FILE No. \_\_\_\_\_

Fldr. No. \_\_\_\_\_

Sheet 12-05-14

Date 5-19-19 49

Quad. No. \_\_\_\_\_

Station Dist. Angle " + H. I. Bearing Ver: Ang. Diff. Elevation

TANK # 1A  
72 OCT. GAS. } DIA - 95'  
HT - 48'  
CAP. 2,500,000 GAL.

TANK # 15  
KBR. } DIA - 90'  
HT - 48'  
CAP. 2,275,000 GAL.

PROPERTY FROM NEWPORT RIVER TO MADISE CORP. OWNED BY MOREHEAD CITY PORT COMMISSION.

ALL PROPERTY ENCLOSED BY FENCES LEASED BY STANDARD OIL COMPANY FROM MOREHEAD CITY PORT COMMISSION.

MADISE CORP. NOW OWNS PROPERTY FORMERLY OWNED BY GEO. R. WALLACE ESTATE.

ALL RAILROADS AND SPUR TRACKS OWNED BY ATLANTIC AND EAST CAROLINA R. R.

WATER TANK CAP. 100,000 GAL.

VALUABLE

Return To  
Public Works  
Office  
Camp & Jones  
North Carolina

SUBJECT

FIELD PARTY

In Charge \_\_\_\_\_  
Instrument \_\_\_\_\_  
Notes \_\_\_\_\_  
Tape Rod \_\_\_\_\_  
Tape of Rod \_\_\_\_\_  
Tape of Rod \_\_\_\_\_  
Station No. \_\_\_\_\_  
Tape No. \_\_\_\_\_

WEATHER

Snow \_\_\_\_\_  
Fog \_\_\_\_\_  
Moderate \_\_\_\_\_  
Rain \_\_\_\_\_  
Clear \_\_\_\_\_  
Cloudy \_\_\_\_\_  
Mild \_\_\_\_\_  
Fog \_\_\_\_\_  
Clear \_\_\_\_\_  
Moderate \_\_\_\_\_  
Rain \_\_\_\_\_  
Fog \_\_\_\_\_

FILE No.

\_\_\_\_\_

FILE No.

\_\_\_\_\_

Station \_\_\_\_\_  
Date \_\_\_\_\_  
Time \_\_\_\_\_  
Wind \_\_\_\_\_  
Temp \_\_\_\_\_  
Bar \_\_\_\_\_  
Humid \_\_\_\_\_  
Dir \_\_\_\_\_  
Dist \_\_\_\_\_  
Hgt \_\_\_\_\_  
Bar \_\_\_\_\_  
Humid \_\_\_\_\_  
Dir \_\_\_\_\_  
Dist \_\_\_\_\_  
Hgt \_\_\_\_\_



VALUABLE

Station  
Date  
Time  
Observer  
Remarks

SUBJECT

FIELD NAME

TO  
FROM  
DISTANCE

TYPE OF ROAD  
TYPE OF SURFACE

TYPE OF ROAD  
TYPE OF SURFACE

WEATHER

Snow  
Ice  
Fog  
Rain  
Clouds  
Mist  
Haze

Direction of Wind  
Force of Wind

Direction of Wind  
Force of Wind

THESE NO.

...

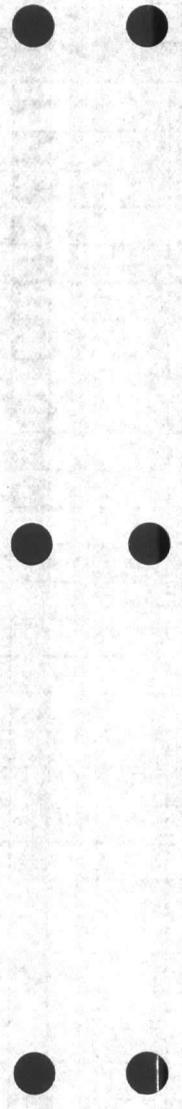
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Station  
Date  
Time  
Observer  
Remarks

VALUABLE







**VALUABLE**

SUBJECT

High Water ElevationsRadio Island LST RampHurricane Donna 9/11/60RETURN TO  
PUBLIC WORKS  
OFFICE  
CAMP LEJEUNE  
NORTH CAROLINA

## FIELD PARTY

 \_\_\_\_\_ IN CHARGE  
 \_\_\_\_\_ INSTRUMENT  
 \_\_\_\_\_ NOTES  
 \_\_\_\_\_ TAPE READ  
 \_\_\_\_\_ TAPE OR ROD  
 \_\_\_\_\_ TAPE OR ROD  
 \_\_\_\_\_ INSTRUMENT NO.  
 \_\_\_\_\_ TAPE NO.

## WEATHER

 CLEAR  
 CLOUDY  
 WINDY  
 RAIN  
 FAIR  
 SNOW  
 HOT  
 MODERATE  
 COLD  
 FOG

FILE No. \_\_\_\_\_

FLDR. No. \_\_\_\_\_

SHEET \_\_\_\_\_

DATE 9/27/1960

Quad. No. \_\_\_\_\_

STATION	DIST.	ANGLE		+	H. I. BEARING	VER: ANG. DIFF.	ELEVATION		
		°	'						
B.M.							10.00*		* Construction Datum.
				4.93	14.93	7.4	7.5		Hurricane Donna High Water (North side)
						7.1	7.8		" " " "
						7.0	7.9		" " " "
						7.2	7.7		" " " "
B.M.							10.00		TOP OF RAMP
				6.73	16.73	6.2	10.5		Hurricane Donna High Water Beaufort Side
						6.2	10.5		" " " "
						6.2	10.5		" " " "
						6.1	10.6		" " " "
						6.1	10.6		" " " "

V. J. B. 111

RETURN TO  
PUBLIC WORKS  
OFFICE  
1000  
1000

STATION  
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**VALUABLE**

SUBJECT

*Base Line for  
Dredge Sections  
Radio Island*

RETURN TO  
PUBLIC WORKS  
OFFICE  
CAMP LEJEUNE  
NORTH CAROLINA

**FIELD PARTY**

\_\_\_\_\_  
IN CHARGE  
\_\_\_\_\_  
INSTRUMENT  
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NOTES  
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TAPE READ  
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TAPE OR ROD  
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TAPE OR ROD  
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INSTRUMENT No.  
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TAPE No.

**WEATHER**

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CLOUDY  
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WINDY  
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RAIN  
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FAIR  
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SNOW  
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HOT  
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MODERATE  
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COLD  
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FOG  
FIGURED BY \_\_\_\_\_  
NOTES CHECKED BY \_\_\_\_\_  
PLOTTED BY \_\_\_\_\_

FILE No. \_\_\_\_\_

FLDR. No. \_\_\_\_\_

SHEET \_\_\_\_\_

DATE \_\_\_\_\_

19 \_\_\_\_\_

Quad. No. \_\_\_\_\_

STATION	DIST.	ANGLE ' "	+	H. I. BEARING	VER: ANG. DIFF.	ELEVATION
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PROPERTY  
RECEIVED  
BY  
C. H. BROWN  
NORTH CAROLINA

SUBJECT

FIELD PARTY  
DATE  
TIME  
PLACE  
TAXES  
TAXES  
TAXES

WEATHER  
CLOUDY  
WINDY  
TEMP.  
HUMIDITY  
MOON  
STAR  
PLANETS  
NOTES

14005  
13  
575  
1

**VALUABLE**

RETURN TO  
PUBLIC WORKS  
OFFICE  
CAMP LEJEUNE  
NORTH CAROLINA

SUBJECT

*Base Line for  
Sounding Triangulation  
Radio Island*

**FIELD PARTY**

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INSTRUMENT  
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**WEATHER**

CLEAR  
CLOUDY  
WINDY  
RAIN  
FAIR  
SNOW  
HOT  
MODERATE  
COLD  
FOG

FILE No. \_\_\_\_\_

FLDR. No. \_\_\_\_\_

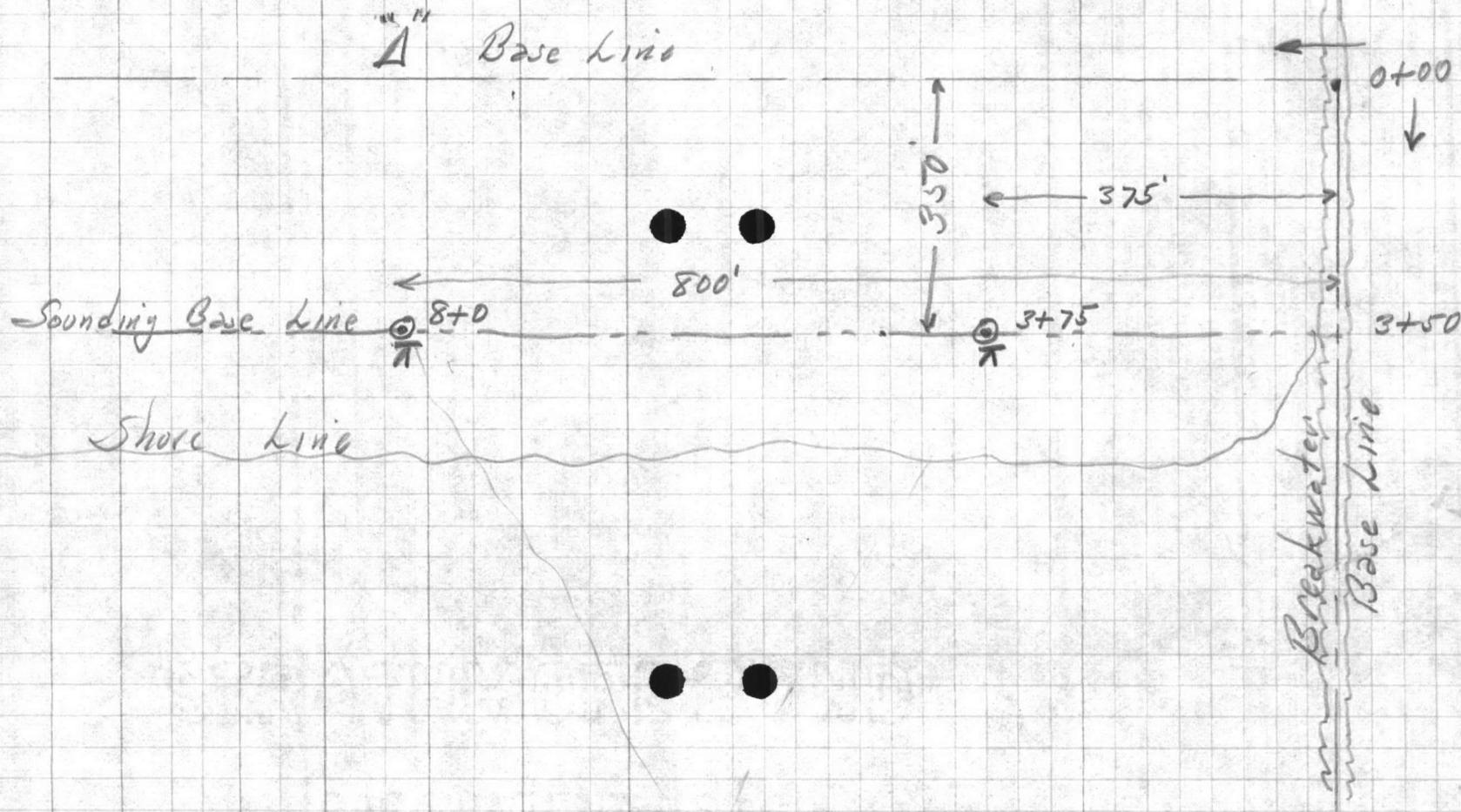
FIGURED BY \_\_\_\_\_ SHEET \_\_\_\_\_

NOTES CHECKED BY \_\_\_\_\_

PLOTTED BY \_\_\_\_\_ DATE \_\_\_\_\_ 19\_\_

Quad. No. \_\_\_\_\_

STATION	DIST.	ANGLE ° ' "	+	H. I. BEARING	VER. ANG. DIFF.	ELEVATION
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WILLIAMS  
SUBJECT  
MUSIC WORKS  
MONTIC  
CAMP LE TOURS  
NORTH CAROLINA

STATION

FIELD PARTY

IN CHARGE

DATE

PLACE

OBJECT

REMARKS

PLANT

COLLECTOR

WEATHER

TEMP

WIND

MOON

STAR

PLANET

OTHER

REMARKS

DATE

PLACE

OBJECT

REMARKS

PLANT

COLLECTOR

WEATHER

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REMARKS

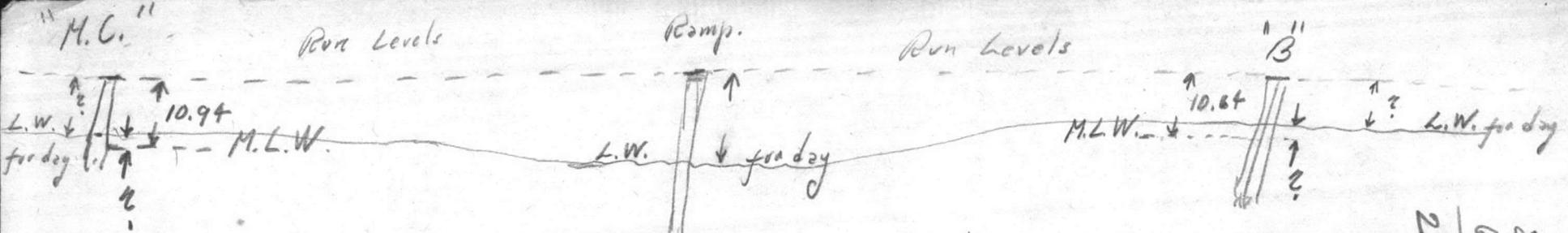
PLANT

COLLECTOR

WEATHER

TEMP

WIND



B.M. Elev. = L.W. for day  $\pm$  mean of Var. for day at "M.C." & "B"

8.73  
6.72  

---

2.01

7.65  
1.27  

---

8.92 L.W.D.

10.64  
9.37 M.S.L.  

---

1.27

16.95  
14.91  

---

2.04

14.91 M.S.L.  
1.27  

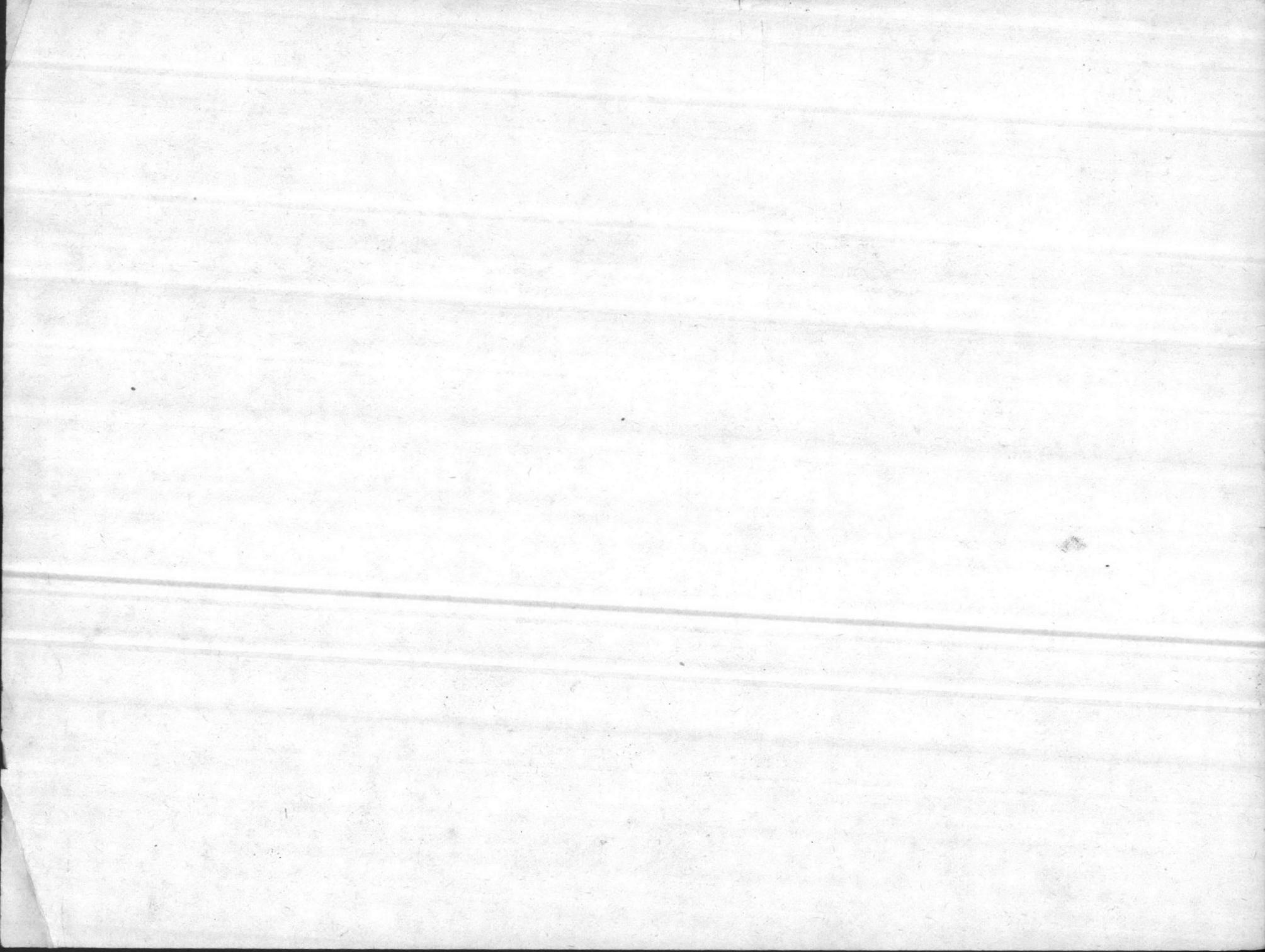
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16.18 M.L.W.  
16.95  

---

.77

~~16.18~~  
~~16.95~~  
~~0.77~~



Vertical Control Elevations - Basin and Camp Area - Radio Island, Marshhead City and Beaufort.

	U.S.C. & G. Datum		U.S.C. & G. Datum	Wooten	P.W. U.S.C. & G. L.W. Datum	Diff.	U.S.C. & G. U.S.E.
	Mean Sea Level Elev.	Low Water Elev.	Mean Low Water				
Bench Mark 8.727 (U.S.E.) Standard Disc in top of sea wall, 8 ft. N.E. of N.W. corner of Co. E, U.S. Army Office at Beaufort	6.78 diff. 1.26	7.98	8.39 8.727 stamped on Disc. 8.39 corr. by C. & E.		7.98	Diff = 0.75 " 0.41	" "
Two Galv. Nails in base of Power Pole at Intersection of Hwy. U.S. Rt. 70 and Road to Radio Station	<del>5.75</del>	<del>7.04</del>	7.28		7.04	Diff = 0.44	" "
Stake set by Wooten at base of same Pole	<del>5.53</del>	<del>6.79</del>	7.23	?	6.79		
Nail Intersection of Radio Sta. Rd. and Access Rd. to Camp	<del>4.77</del>	<del>6.00</del>			6.00		
7.6 (U.S.E.) Outlined chiseled square in concrete of the N.E. headwall of the Newport Coleridge Bridge marked U.S.B.M.	7.65	8.91 Beaufort 9.01 N. City			8.91 9.01		
5 (1952) Standard Disc in S.W. corner of S.W. pier foundation of Marshhead City Port Terminal Water Tank	9.53 diff. 1.36	10.94			10.94		
Iron Pipe at Sta. 3+00 on Baseline "A" set as Construction B.M. for Dredging.			C.F. 16.36	Wooten 16.95*	C.S.E. & G. 15.82	Beaufort Datum used. Diff. 1.03	
Top of Camp at Construction Site as built. Plan Elev. 10.00				9.98	8.95	Beaufort Datum used.	

Check Level Run. Error 0.01 ft.

Check Level Run. Error 0.005 ft.

Diff. +0.59  
Diff. -0.44

\* This elevation transferred by Public Works Survey Section from Key B.M. of Elev. 15.80 at Sta. 24+20 as shown on Sheet #1 of titled Dredging, Location Plan and Dredging Plan.

The elevation was checked by a subsequent run of Profile Leveling over the original and later changed Road Center Line.





WEATHER  
WIND  
TEMP  
HUMIDITY  
PRESSURE  
SEA STATE  
VISIBILITY  
CLOUDS  
REMARKS  
DATE  
TIME  
STATION  
OFFICER  
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NEW CAROLINA  
OFFICE  
OFFICER  
NAME  
RANK

**VALUABLE**

RETURN TO  
PUBLIC WORKS  
OFFICE  
CAMP LEJEUNE  
NORTH CAROLINA

SUBJECT check levels from  
B.M.s in Beaufort and  
Morhead city

**FIELD PARTY**

\_\_\_\_ IN CHARGE  
\_\_\_\_ INSTRUMENT  
\_\_\_\_ NOTES  
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**WEATHER**

CLEAR \_\_\_\_\_  
CLOUDY \_\_\_\_\_  
WINDY \_\_\_\_\_  
RAIN \_\_\_\_\_  
FAIR \_\_\_\_\_  
SNOW \_\_\_\_\_  
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COLD \_\_\_\_\_  
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FIGURED BY \_\_\_\_\_  
NOTES CHECKED BY \_\_\_\_\_  
PLOTTED BY \_\_\_\_\_

FILE No. \_\_\_\_\_  
FLDR. No. \_\_\_\_\_  
SHEET 1-0 f  
DATE 11-21-1955

Quad. No. \_\_\_\_\_

STATION	DIST.	ANGLE ° ' "	+	H. I. BEARING	VER. ANG. DIFF.	ELEVATION
B.M.						6.72
T.P.		4.55	11.27		6.63	4.64
T.P.		3.09	7.73		3.88	3.85
T.P.		7.05	10.90		5.34	5.56
T.P.		4.01	9.57		3.91	5.66
T.P.		3.73	9.39		3.82	5.57
T.P.		4.04	9.61		4.19	5.42
T.P.		3.93	9.35		3.98	5.37
T.P.		3.48	8.85		3.33	5.52
T.P.		3.35	8.87		3.47	5.40
T.P.		3.90	9.30		4.11	5.19
B.M.	side shot	3.55	8.74		2.96	5.78
B.M. (G.P.)		4.85	9.59		4.00	4.74
T.P.		4.42	9.79		4.22	5.37
T.P.		4.43	11.42		2.80	6.99

M.S.L.

C. of E disc in sea wall near Engineers office in Beaufort, N.C.

8.39  
6.22  
-----  
1.57

From Don Hood: Elev. of Nails from  
Info from C. of E. 7.48 L.W.D. C. of E.  
7.04 " " C.G.  
0.44 Diff.

5.78  
1.58  
-----  
6.00

M.S.L.

Two Galv. nails in power pole at rd. inter section  
nail in intersection of Ramp Rd. & Radio Sta Rd

4.74  
1.26  
-----  
6.00



**VALUABLE**

RETURN TO  
PUBLIC WORKS  
OFFICE  
CAMP LEJEUNE  
NORTH CAROLINA

SUBJECT Check Levels from  
Beaufort to Morehead city  
continued

**FIELD PARTY**

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**WEATHER**

CLEAR  
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NOTES CHECKED BY \_\_\_\_\_  
PLOTTED BY \_\_\_\_\_

FILE No. \_\_\_\_\_  
FLDR. No. \_\_\_\_\_  
SHEET 2-07  
DATE 11-21-1955

Quad. No. \_\_\_\_\_

STATION	DIST.	ANGLE ' "	+	H. I. BEARING	VER. ANG. DIFF.	ELEVATION	
B.M. (F.P.)				11.42	3.77	7.65	M.S.L.
T.P.		4.03		11.68	4.58	7.10	
T.P.		3.97		11.07	3.55	7.52	
T.P.		4.83		12.35	3.31	9.04	
T.P.		4.71		13.75	6.07	7.68	
T.P.		5.74		13.42	4.84	8.58	
T.P.		3.72		12.30	5.05	7.25	
T.P.		4.91		12.16	5.15	7.01	
B.M. #5		4.25		11.26	1.69	9.57	
					9.58	9.57	M.S.L.
B.M.					5.78		
		3.45		9.23			
ON TOP of stake by pole					3.70	5.53	
						6.79	

USC&G B.M. AT EAST END of Highway Bridge

7.65  
1.26  
8.91

USC&G Disc in S.W. cor. of S.W. Pier Found.  
dation Pier of Port Terminal water  
TANK - Morehead city, N.C.

TWO galv. Nails in Power pole



February 3, 1956

Comdr. V. G. Lauters, CMC, USN  
Resident Officer in Charge of Construction  
Public Works Building  
Building No. 1005  
Camp Lejeune, North Carolina

Contract NOy-85901 - L.S.T. Loading Ramp  
Radio Island, Morehead City, North Carolina

Dear Sir:

As a result of a conference held in your office on January 26, 1956, attended by you, Lt. Siman, Lt. Baker, Mr. Fayville, Mr. Dudley, our Mr. Donald Hood and the writer, in connection with a breakdown of the additional cost, due to a discrepancy in the bench mark elevation as established, you requested certain additional information.

Paragraph two of our letter of January 13, 1956 stated that a discrepancy of about one foot is indicated. Nowhere on the contract plans nor in the specifications for this contract is there any reference to a datum plane upon which the mean low water elevation of 0.00 is based. As you know, in the past we have done extensive work for the Department of the Navy in the Fifth Naval District, and it has been our experience that elevations for these projects were based upon United States Coast and Geodetic Survey datum. The most recent of these jobs completed by us was Contract NOy-78212, for the construction of Piers, Ramps and Quays at the United States Naval Amphibious Base, Little Creek, Virginia. This job, in the contract amount of approximately \$3,000,000, included in addition to piers, quays, etc., fifteen L.S.T. loading ramps, very similar to the L.S.T. Loading Ramp constructed under the above subject contract. On T. & D. Drawing No. 577184, dated July 9, 1953, the following information is given for the Little Creek project -

GENERAL NOTES

Elevations are in feet and tenths and refer to Mean Low Water  
U.S.C. & G.S. datum 1929.

Extreme High Water	9.00
Mean High Water	2.78
Mean Low Water	0.00
Extreme Low Water	- 2.93 ( once in 70 yrs.)

Grid based on the Lambert System for the State of Virginia as  
established by the U.S.C. & G.S."

In the absence of similar information for Contract NOy-85901, Radio Island, we naturally concluded that elevations for this project were based upon U.S. Coast & Geodetic Survey datum, as were other projects constructed by us in the Fifth Naval District. When we started construction of the ramps and bulkheads under the above



To - Comdr. V. G. Lauters, CEC, USN, Resident Officer in Charge of Construction,  
Public Works Bldg., Bldg. No. 1005, Camp Lejeune, North Carolina  
Re - Contract WCY-85901 - LST Loading Ramp, Radio Island, Morehead City, N.C.  
Page Two, 2/3/56

subject contract, we noticed that the outboard end of the ramp was closer to the water than the ramps which we constructed at Little Creek, leading us to believe that perhaps the job bench mark elevation furnished us was in error. In order to check this our field forces took simultaneous readings of the water elevation at three U.S. Coast & Geodetic Survey bench marks, the results of which showed that the water level at the job site, based upon the job bench mark elevation given us, was approximately .72' above the water level at the three U.S. Coast & Geodetic Survey bench marks. We immediately called your attention to this fact, stating that in our opinion the work was being constructed lower than planned, and requested a check of the bench mark elevation.

The consulting engineers advised that they had made an error of .34' in their elevation and at this time it was discovered that the job bench mark elevation established was based upon U.S. Army Engineer's datum, rather than U.S. Coast & Geodetic Survey datum.

As agreed, we kept an itemized daily record of the delays caused by the job bench mark elevation discrepancies, and at the conference held in your office on January 26, 1956 these daily records of delays were carefully gone over and compared with your inspector's daily reports, which were essentially in agreement with our daily records.

As a result of this conference it is our understanding that with the furnishing of this requested additional information, a change order will be issued covering the cost of the delays caused by the discrepancies in the job bench mark elevation.

Should you desire any further information we will furnish it upon request.

Yours very truly,

McLean Contracting Company

W. L. Newberry, Jr.

PC

CC: Officer in Charge of Construction  
Norfolk Office  
Field Office

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FEB 6 1956  
U.S. CUSTOMS AND BORDER PROTECTION  
NEW YORK, N.Y.

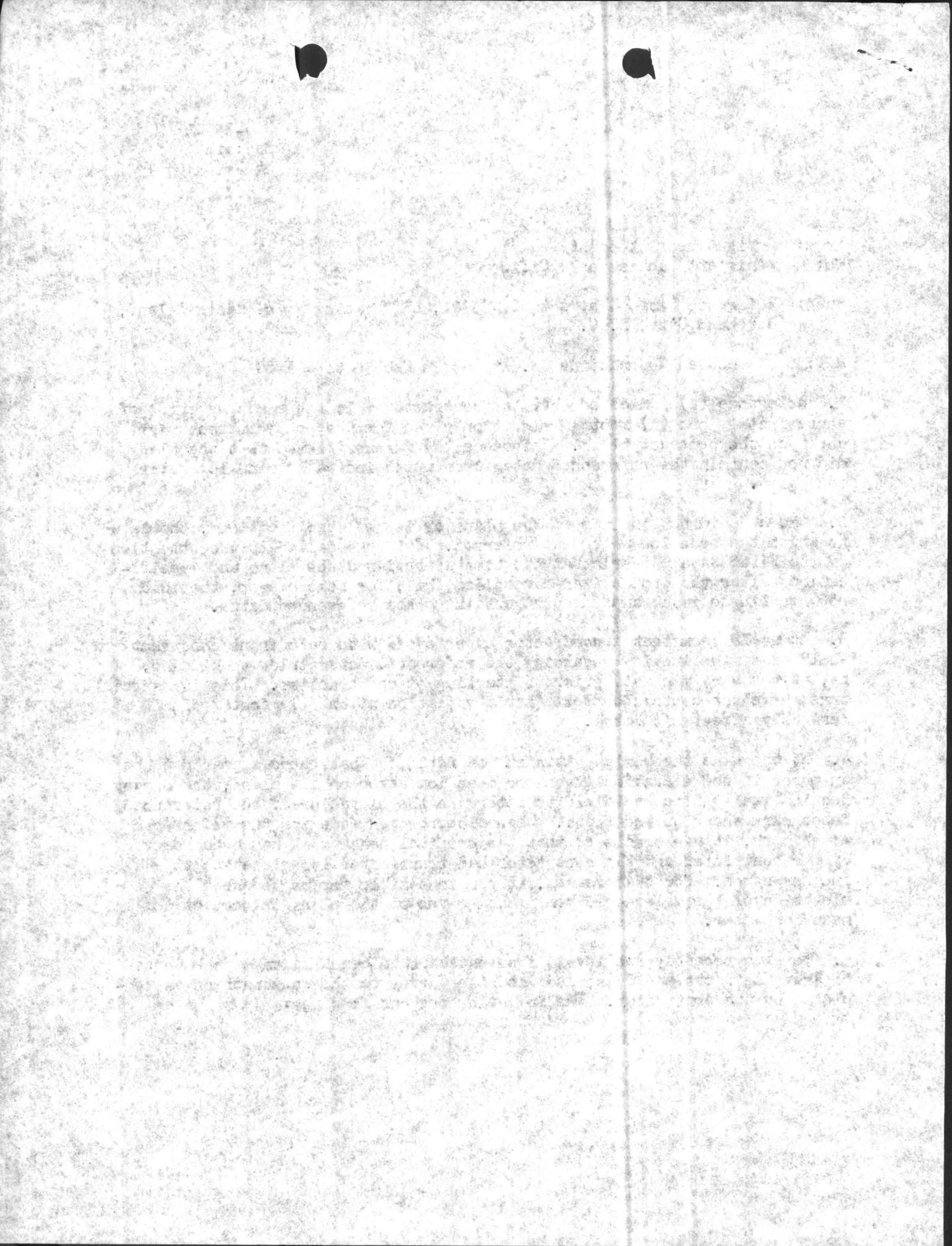
NOy-85901  
SJR:afh  
24 February 1956

From: Design Superintendent  
To: Assistant Public Works Officer

Subj: Reference Data, Contract NOy-85901, LST Loading Ramp, Radio Island,  
Morehead City, N. C.

Ref: (a) McLean Contracting Co. ltr dtd 3 Feb 56 to ROINCG

1. Reference (a) indicated that the contractor felt there was an error of approximately one (1) foot in elevation given for the project bench mark shown on the contract plans. Reference (a) further stated that the plans did not contain the referenced datum upon which indicated mean low water was based.
2. The A&E did not include on the plans or in the specifications, the datum to which the mean low water was referred. This was called to the attention of the Fifth Naval District at the time we reviewed the plans and specifications after the project was advertised, but, for some reason, they did not see fit to issue an addendum containing the referenced datum.
3. It would seem that a contractor experienced with waterfront construction would have made inquiry regarding the referenced datum prior to bidding, or, at the very minimum, prior to starting of construction. This is especially true where the contractor felt that a variation of one (1) foot would seriously affect his costs.
4. At the time the Design Division was notified that there appeared to be an error in the elevation given for mean low water on the plans, the Survey Section was sent to the field to determine the elevation of the referenced bench mark shown on the plans. When a search was made for the referenced bench mark, it was disclosed that the original bench mark had been removed by the contractor and the contractor had transferred its elevation to another bench. For that reason, it was impossible for us to check the elevation of the referenced bench mark given on the plans in respect to mean low water.
5. We have recently run levels from established bench marks of the Corps of Army Engineers and Coast and Geodetic Survey to the construction as completed by the contractor. The following are our findings:



NOy-85901  
SJR:afh  
24 February 1956

- (a) Corps of Army Engineers Bench Mark 8.727 set in top of sea wall on south side of Front Street between Moore and Orange Streets, 8' northeast of northwest corner of Corps of Engineers, U. S. Army Office. It is  $19\frac{1}{2}$ ' southwest of southwest curb of Front Street, and 1' southwest of southwest edge of sidewalk in the City of Beaufort, North Carolina. The established Corps of Army Engineers elevation for this bench mark is 8.39' above mean low water.

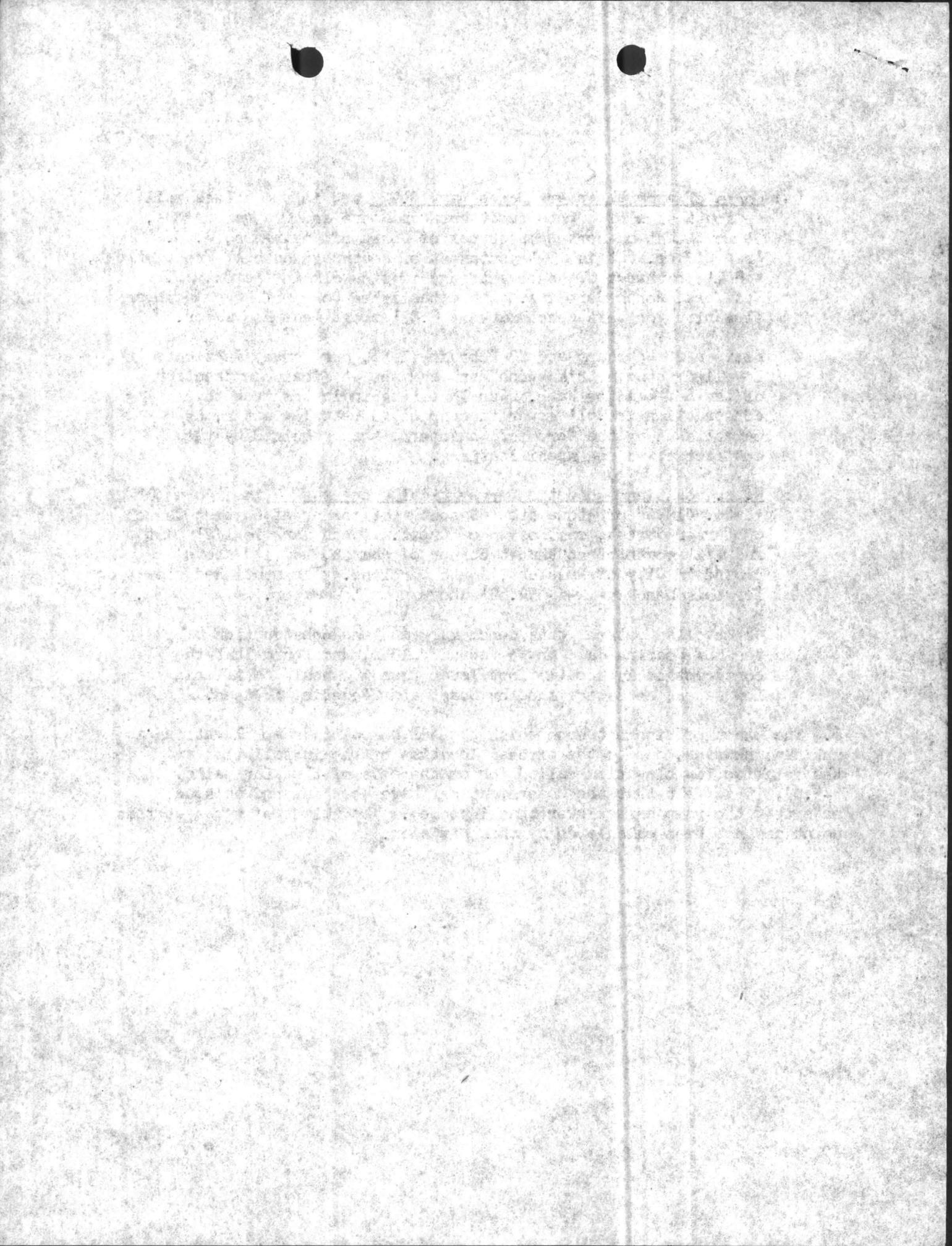
Between 20 February and 23 February 1956, our Survey Section levelled between this bench mark and the physical construction of the LST Loading Ramp. Our levelling indicates that the construction is .61' lower in respect to mean low water, as established by the Corps of Engineers, than required by the contract plans and specifications.

- (b) U. S. Coast and Geodetic Survey tidal bench mark 7 is Figure "8" in No. "1890" on stone step at southwest corner of Baptist Church on Turner Street, east of Anne Street. Bench mark is  $1\frac{1}{2}$ ' east and  $1\frac{1}{2}$ ' south of southwest corner of church, and  $1\frac{1}{2}$ " above ground in City of Beaufort, North Carolina. The published elevation for this bench mark is 10.64' above mean low water.

We levelled between this bench mark and the construction of the LST Loading Ramp on 23 February 1956, and found that the construction is one (1) foot lower than it should be if mean low water, as established by Coast and Geodetic, is used.

6. The exact requirement upon which the A&E based his ramp elevations is unknown; however, due to the exposed location of the installation and the relative low elevation called for on the ends of the wing walls ( $\frac{1}{5.0}$ ), it is felt that the Government may have been damaged to some extent by the ramp being lower than intended. The height of waves at this point has not been calculated by this Division.

S. J. REVER



RESIDENT OFFICER IN CHARGE OF CONSTRUCTION  
Marine Corps Base, Camp Lejeune, North Carolina

In reply refer to  
NOy-85901  
SJR:afh  
28 November 1955

L. E. Wooten and Company  
306 South Dawson Street  
Raleigh, North Carolina

Re: Contract NOy-85901  
Specification 43082  
LST Loading Ramp  
Radio Island  
Morehead City, N. C.  
Levels

Gentlemen:

We have your letter of 1 November 1955, regarding bench marks and datum you used in establishing construction elevations for the referenced project.

We have investigated the elevation of the construction bench marks in relation to the Corps of Engineers' bench mark in the front of the U.S.E.D. office in Beaufort, North Carolina, as being elevation 8.39 above mean low water, Beaufort datum. We have not been able to establish that the project elevations are only 0.33 feet lower than they should be.

The contractor is pressing the Government for a change order based upon increased costs resulting from the job elevations being one (1) foot low in respect to mean low water when based upon the bench mark in front of the U.S.E.D. office at Beaufort, North Carolina.

It is therefore requested that you re-investigate this matter at the earliest possible date and determine the actual correction that should be applied to the job elevation.

Sincerely yours,

V. G. LAUTERS  
CDR (CEC) USN  
Resident Officer in Charge of Construction

*V Design*



McLEAN CONTRACTING COMPANY  
GENERAL CONTRACTORS  
Telephone Plaza 2-3660  
1301-3 Fidelity Building  
Baltimore 1, Maryland

November 16, 1955

Comdr. V. G. Lauters, CEC, USN  
Resident Officer in Charge of Construction  
Public Works Office  
Building No. 1005  
Camp Lejeune, North Carolina

Contract NOy-85901 (Spec. 43082)  
and Addenda Nos. 1, 2, 3 and Amendment  
No. 1), LST Loading Ramp, Radio Island  
Morehead City, North Carolina

Dear Sir:

During a conference at your office on Monday afternoon, November 14, 1955, attended by yourself, Lieutenant Schuster, Mr. Dudley, Mr. Dillon and the writer, we discussed the discrepancy in the elevation of the bench mark established by the Consulting Engineers. We understand that you have received a letter from L. E. Wooten & Company, the Consulting Engineers for this project, stating that for various reasons the elevation established by them is in error.

We thoroughly concur in your decision made at the job site on Tuesday afternoon, November 15th, when you instructed Mr. Dillon to install a recording tide gauge on the west end of the concrete ramp so that the exact discrepancy between mean low water and the bench mark elevation established by the Consulting Engineers, from which the job is being constructed, can be determined. In the three months we have been working at the site, the lowest water to be encountered was observed on Saturday, November 12th, and this low water elevation was  $+ 1.3$ , based upon the bench mark elevation given on the contract drawings.

Yours very truly,

McLean Contracting Company

W. L. Newberry, Jr.

PC

cc: Officer in Charge of Construction  
Mr. D. E. Hood  
Norfolk Office

C O P Y

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L. E. WOOTEN AND COMPANY  
CONSULTING ENGINEERS  
RALEIGH, N. C.

November 1, 1955

Commander V. G. Lauters  
Public Works Office - MARCORB  
Camp Lejeune, N. C.

SUBJECT: Contract NOy-85900  
Levels, L.S.T. Ramp, Radio Island  
Morehead City, N. C.

Dear Sir:

As requested by you we have reviewed the leveling work from which the grades were established for the subject project.

All elevations for the project are based on Mean Low Water, Beaufort Datum. The Beaufort Datum is established from a master bench mark at Fort Macon, elevation 15.71 feet.

A temporary bench mark, two galvanized nails in the base of a power pole, located at the intersection of U. S. Route 70 with the road to the Aviation Fuel Terminals has been established as elevation 7.48 feet. Both this TBM and the Fort Macon bench mark are U.S.E.D. bench marks.

All soundings for the project are based on the Fort Macon bench mark and are correct.

At the time our levels were run, our engineer started from an established bench mark in front of the U.S.E.D. office in Beaufort. At that time he understood that that bench marked "elevation 8.727 feet" was the actual elevation with relation to mean low water, Beaufort Datum. However, the Corps of Engineers has applied a local correction to that bench mark and now record it as elevation 8.39 which has been tied in with the Fort Macon Bench Mark. Subsequently the Corps of Engineers also established the Temporary B.M. at the power pole on Radio Island, mentioned in paragraph three above.

8.40

In checking between a temporary bench mark established by our engineer and the temporary U.S.E.D. bench mark, we find that our job elevations are 0.33 feet low with relation to mean low water Beaufort Datum.

Very truly yours,

L. E. WOOTEN AND COMPANY

By L. E. Wooten

RFR/ec

C  
O  
P  
Y

L. E. WOOLLEN AND COMPANY  
CONSULTING ENGINEERS  
BALTIMORE, M. D.



General T. D. ...  
Room 1000 ...  
Washington, D. C.

Project No. ...  
Level, ...  
Date ...

An investigation was conducted to determine the ...  
the most ...

All ...  
The ...

A ...  
The ...

The ...

As ...  
The ...

In ...  
The ...

Very truly yours,

L. E. WOOLLEN

L. E. WOOLLEN

11/2/55

COPY

ROUTING SLIP  
PUBLIC WORKS DEPARTMENT  
MARINE CORPS BASE, CAMP LEJEUNE, N. C.

No. 561

Date 17 Nov 55

From Dept. of Commerce

Subject forwarding descriptions and elevations  
Survey Tidal Bench Marks in vicinity of Morehead  
City

-CODE-

- |                                |                |
|--------------------------------|----------------|
| 1. Action                      | 6. Investigate |
| 2. Info. and return            | 7. Retain copy |
| 3. Prepare reply for PWO-OinCC | 8. File        |
| 4. Prepare reply for ROinCC    | 9. _____       |
| 5. Prepare estimate            |                |

DEPARTMENT	ACTION R.	SEQUENCE	INITIAL	DATE
PWO-OinCC-ROinCC	2			
Asst. ROinCC	1-2			
Asst. PWO	1-2			
Asst. OinC Elec. Plt.				
Chief Inspector	2			
Design Supt.	2			
Adm. Officer				
Master Mechanic				
Housing Manager				
Central File	8			
Adm. Asst.				

Remarks:

Regarding proposed C.O. No. 85901

(Routing Slip will be returned to Central Office with correspondence attached unless otherwise designated)



DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  
SOUTHEASTERN DISTRICT HEADQUARTERS  
ROOM 418, U. S. POST OFFICE BUILDING  
NORFOLK 10, VIRGINIA

*Madison 78492*

16 November 1955

Public Works Department  
Camp LeJeune  
North Carolina

Dear Sir:

In compliance with a telephone request from Lt. Baker, we are enclosing the descriptions and elevations of available Coast and Geodetic Survey Tidal bench marks in the vicinity of Morehead City, N. C.

Also enclosed is a copy of a letter addressed to the McLean Construction Company suggesting a method of establishing an approximate tidal datum on Radio Island.

If we can be of further service, do not hesitate to contact this office.

Very truly yours,

*W. H. Bainbridge*

for  
W. H. Bainbridge  
Captain C&GS  
Norfolk District Officer

HLP:fl

Enclosures

DEPARTMENT OF JUSTICE  
FEDERAL BUREAU OF INVESTIGATION  
WASHINGTON, D. C. 20535

10 November 1955

Mr. Tolson  
Washington, D. C.

Enclosed is a copy of a letterhead memorandum  
dated and captioned as above. This memorandum  
was prepared by the Birmingham Office of the  
Bureau and is being furnished to you for  
information. The original of this memorandum  
is being retained in the Birmingham Office.

*[Handwritten signature]*

Special Agent in Charge



COPY

28 October 1955

McLean Construction Company  
C/O General Delivery  
Morehead City, North Carolina

Dear Sir:

Enclosed are lists of available Coast & Geodetic Survey bench marks in the vicinity of Morehead City.

In regard to our telephone conversation with Mr. Hood, it is believed that a tidal datum can be established for the mark on Radio Island by taking simultaneous readings on the water level at periods of slack water during calm weather, using the elevations as given in the lists of bench marks. The maximum error should not exceed plus or minus two tenths of a foot under these conditions.

As a matter of record, it should be kept in mind that the tide will seldom go to exactly zero at low water, but may vary under normal conditions as much as plus or minus six tenths of a foot. During periods of strong winds, the variation may amount to a great deal more.

If we can be of further assistance, do not hesitate to contact this office.

Very truly yours,

W. H. Bainbridge  
Captain C&GS  
Norfolk District Officer

HLP:fl

28 October 1955

Higdon Construction Company  
210 General Delivery  
Morehead City, North Carolina

Dear Sir:

Enclosed are lists of available Coast & Geodetic Survey bench marks in the vicinity of Morehead City.

In regard to our telephone conversation with Mr. Hood, it is believed that a tidal datum can be established for the mark on Radio Island by taking simultaneous readings on the water level at periods of slack water during calm weather, using the elevations as given in the lists of bench marks. The maximum error should not exceed plus or minus two tenths of a foot under these conditions.

As a matter of record, it should be kept in mind that the tide will seldom go to exactly zero at low water, but may vary under normal conditions as much as one or more six tenths of a foot. During periods of strong winds, the variation may amount to a great deal more.

If we can be of further assistance, do not hesitate to contact this office.

Very truly yours,

W. H. Rainbird  
Captain USGS  
Norfolk District Office



6/1/53

NORTH CAROLINA - 38

U. S. COAST AND GEODETIC SURVEY ✓

TIDAL BENCH MARKS ✓

Beaufort (Corps of Engineers, U. S. Army Wharf)  
Lat. 34° 43'.1; Long. 76° 40'.1

BENCH MARK 7 (1908) is figure "8" in number "1890" on stone step at southwest corner of Baptist Church on Turner Street, east of Anne Street. Bench mark is  $\frac{1}{2}$  foot east and  $\frac{1}{2}$  foot south of southwest corner of church and  $1\frac{1}{2}$  inches above ground. Elevation: 10.64 feet above mean low water.

10.64 M.L.W.  
9.37 M.S.L.  
1.27

BENCH MARK 8 (1908) is southwest corner of tombstone of B. T. Howland, on top of bench of main base, and 2 feet from ground. Elevation: 14.01 feet above mean low water.

14.01 M.L.W.  
12.74 M.S.L.  
1.27

BENCH MARK 10 (1913) is a standard disk, unstamped, set in concrete post, 8 inches square and 2 feet long, flush with surface of ground. It is in southeast corner of front yard of house of Captain Alonso Thomas at northwest corner of Front and Orange Streets. Elevation: 7.83 feet above mean low water.

7.83 M.L.W.  
6.56 M.S.L.  
1.27

BENCH MARK 8.727 (U.S.E.) is a Corps of Engineers, U. S. Army standard disk, stamped "8.727", set in top of sea wall on south side of Front Street, between Moore and Orange Streets, 8 feet northeast of northwest corner of Corps of Engineers, U. S. Army Office. It is  $19\frac{1}{2}$  feet southwest of southwest curb of Front Street, and 1 foot southwest of southwest edge of sidewalk. Elevation: 7.98 feet above mean low water.

7.98 M.L.W.  
6.72 M.S.L.  
1.26  
THIS ONE  
M.S.L. = 6.72

BENCH MARK 2 (1953) is a standard disk, stamped "NO 2 1953", set in top of seawall about 150 feet west of Corps of Engineers, U. S. Army Wharf, directly in line with east curb of Moore Street and on south side of Front Street. Elevation: 8.25 feet above mean low water.

No M.S.L. Elev.

Mean low water at Beaufort (Corps of Engineers, U. S. Army Wharf) is based on 11 months of automatic gages records, October 1934 - August 1935, reduced to mean values. Elevations of other tide planes referred to this datum are as follows:

	<u>Feet</u>
Highest tide (estimated)	5.5 -
Mean high water	2.50 -
Half tide level	1.25
Mean low water	0.00 -
Lowest tide (estimated)	-2.0



6/1/53

NORTH CAROLINA - 39

U. S. COAST AND GEODETIC SURVEY

TIDAL BENCH MARKS

Morehead City, Bogue Sound  
Lat.  $34^{\circ} 43'.2$ ; Long.  $76^{\circ} 42'.8$

BENCH MARK 1 (1927) is a standard disk, stamped "B M 1 1927", set on top of concrete platform on south side of east entrance of Morehead City Hall, on southwest corner of Eighth and Evans Streets. Elevation: 10.19 feet above mean low water.

10.19 H.L.W.  
8.83 H.S.L.  
1.36

BENCH MARK 3 (1927) is a standard disk, stamped "B M 3 1927", set vertically in south side of northwest corner of sandstone pier of building occupied by Marine Hardware Company, at southeast corner of Eighth and Arendel Streets. Elevation: 14.64 feet above mean low water.

14.64 H.L.W.  
13.28 H.S.L.  
1.36

✓ BENCH MARK 5 (1952) is a standard disk, stamped "NO 5 1952", set in southwest corner of southwest pier foundation of Morehead City Port Terminal water tank. Water tank is approximately 100 yards west of tide station (of 1952) and just outside wire fence across end of pier. Elevation: 10.94 feet above mean low water.

THIS ONE  
10.94  
1.36  
9.58 H.S.L.

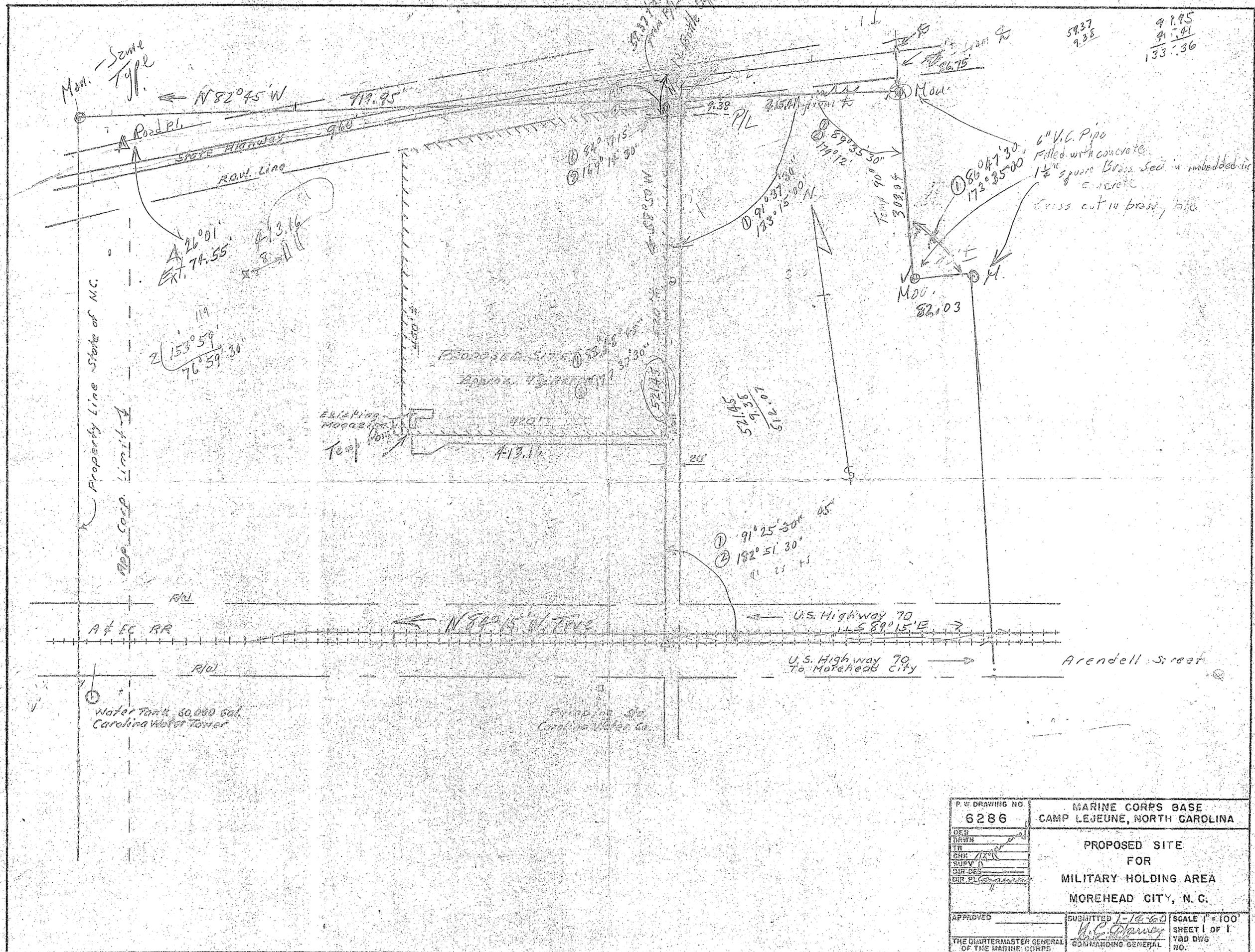
✓ BENCH MARK 6 (1952) is a standard disk, stamped "NO 6 1952", set in east end of top concrete step of building occupied by L. A. Fry Roofing Company on south side of Route 70 in Morehead City, approximately 0.3 mile east of Fourth Street. Elevation: 9.36 feet above mean low water.

BENCH MARK 7 (1953) is a standard disk, stamped "NO 7 1953", set in angle of seawall just west of 8th Street, about 150 feet southeast of southeast corner of hospital and along south side of Shephard Street. Elevation: 6.49 feet above mean low water.

Mean low water at Morehead City, Bogue Sound is based on 113 high waters and 112 low waters, February 22 - April 17, 1927. Elevations of other tide planes referred to this datum are as follows:

	<u>Feet</u>
Highest tide (estimated)	5.5
Mean high water	2.50
Half tide level	1.25
Mean low water	0.00
Lowest tide (estimated)	-2.0





5937  
938  
97.95  
41.41  
133.36

6" V.C. Pipe  
Filled with concrete  
1 1/2" square Brass Sec. imbedded in  
concrete  
Cross cut in brass, etc.

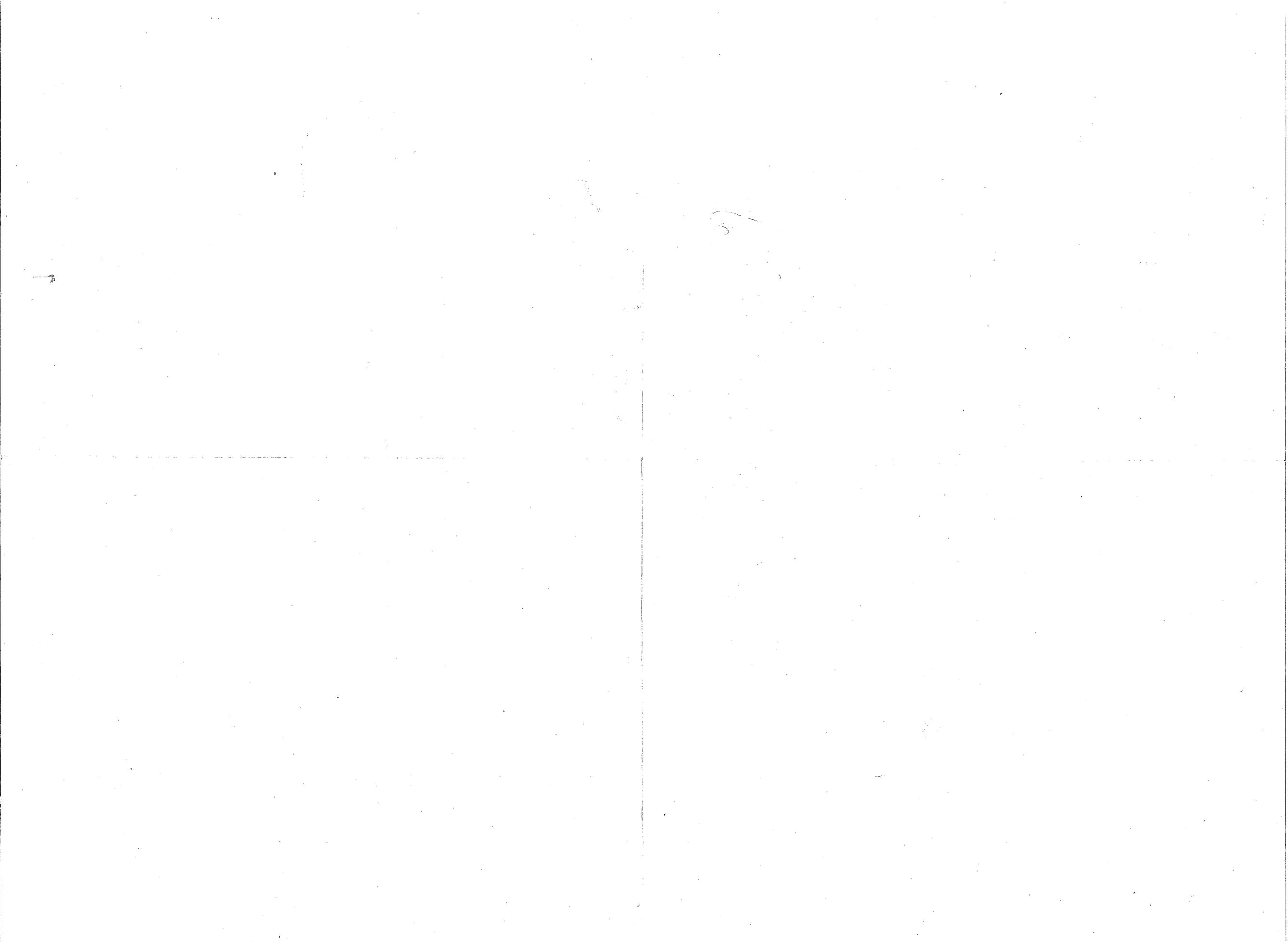
Mon. - Same Type

Property Line State of N.C.  
App. Corp. Limit

Water Tank 50,000 Gal.  
Carolina Water Tower

Pump in 3/4  
Carolina Water Co.

P. W. DRAWING NO. <b>6286</b>		MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
DES	TR	<b>PROPOSED SITE FOR MILITARY HOLDING AREA MOREHEAD CITY, N. C.</b>	
DRWN	CHK		
TR	SUPV		
CHK	DIR-DES		
SUPV	DIR-PLN		
APPROVED	SUBMITTED <u>1-16-60</u>	SCALE 1" = 100'	
THE QUARTERMASTER GENERAL OF THE MARINE CORPS		COMMANDING GENERAL <i>W. C. Drayton</i> NO.	



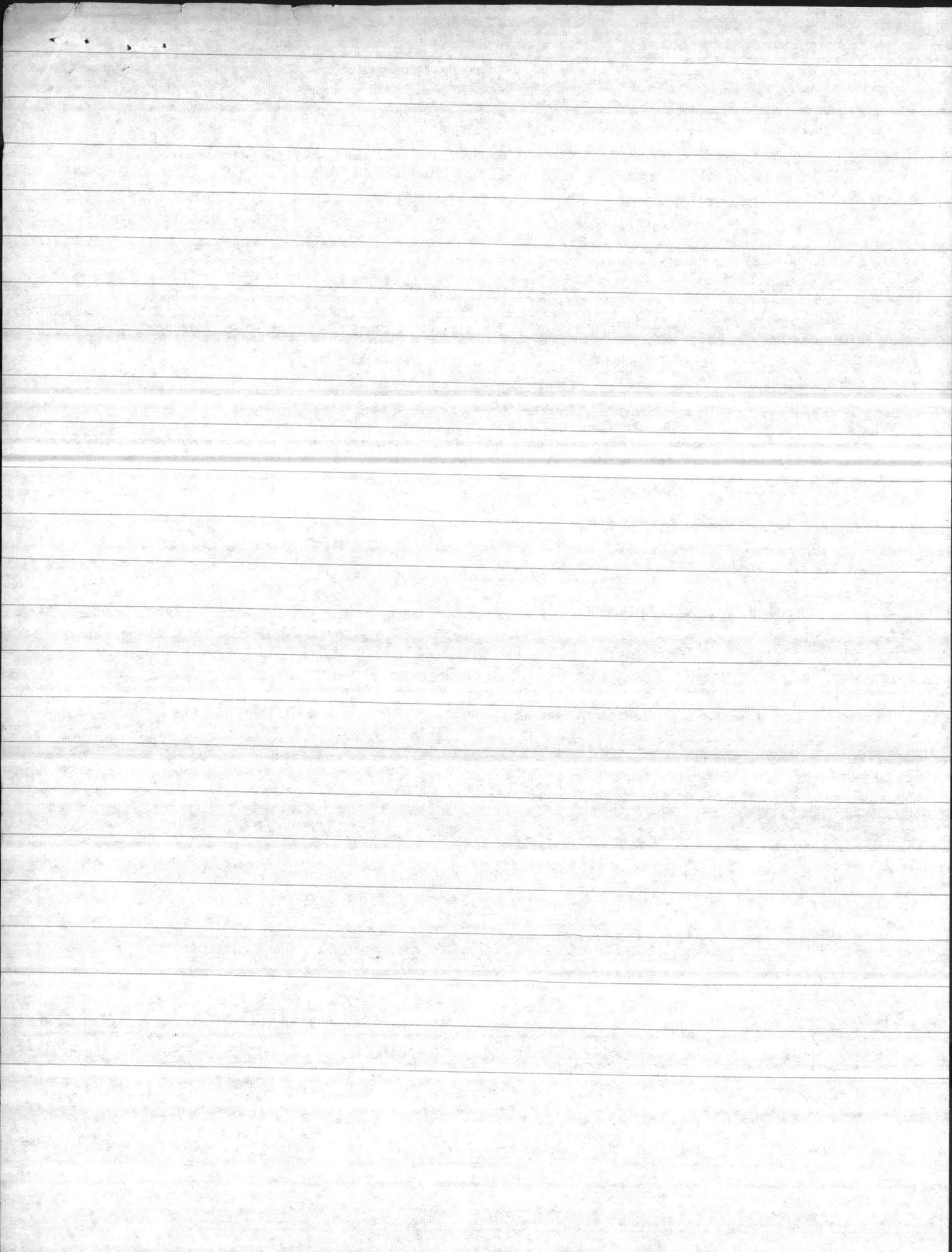
THESE COMPUTATIONS ON CAPEHART  
HOUSING WERE COMPILED BY  
ENS (LTJG) WEAVER

HAND-DELIVERED FOR FILE TO PLANNING  
ON 19 FEB 1963

CONTAINS OF 10 YELLOW SHEETS  
1 BOUND ROLL OF { JOHN A EDWARDS } PRINTS  
AND 5 UNBOUND PRINTS

Y

19 FEB 1963



ITEM	MORTGAGE AREA 1	MORTGAGE AREA 2	MORTGAGE AREA 3	MORTGAGE AREA 4	MORTGAGE AREA 5	MEMO TOTALS	M.A. - G MOQ TOTALS	ITEM	PROJECT TOTALS	UNIT PRICES			
STREETS MILES SQ. YDS.	17098 2407344	13996 1970599	19849 2794744	19946 2808393	17297 243567	88188 12416770	14932 2063862	STREETS MILES SQ. YDS.	10.3126 144806.32	3.45			
SERVICE DRIVES MILES SQ. YDS.	13951 818459	09559 560804	14876 872702	10886 638668	09059 531495	58331 3422128	10532 61789	SERVICE DRIVES MILES SQ. YDS.	6.8863 40400.18	3.45			
HOUSE DRIVES MILES SQ. YDS.	14406 845142	13451 789111	13068 766666	13149 791444	13806 809956	6788 3982319	18926 1110338	HOUSE DRIVES MILES SQ. YDS.	8.6206 50926.52	3.45			
CURB & GUTTER MILES SQ. YDS.	34195 401224	27991 328433	38698 465791	3989 468066	34598 405748	176372 2069462	23301 273403	TOT. MILES PAV. TOT. SQ. YDS. PAV. CURB & GUTTER MILES SQ. YDS.	258789 236133.02 19.9673 23428.65	3.45 4.00	814658.85	73712.00	
SIDEWALK MILES SQ. YDS.	19461 456692	12340 289588	17016 399299	15733 369203	15435 362204	79985 1876986	07084 166229	SIDEWALK MILES SQ. YDS.	8.7569 20432.15	3.35		68447.20	
STORM SEWER 15" 18" 24" 30" 36" 42" 48"	FEET 573 1907 1744 0 150 0 0	FEET 1184 670 640 406 1026 198 414	FEET 28 222 553 1801 310 0 0	FEET 0 890 852 950 308 184 0	FEET 452 2128 102 262 639 0 55	22370 58170 38910 32190 24330 3820 4690 18448	972 321 629 825 765 0 3560	15" 18" 24" 30" 36" 42" 48" 48x27 36x22 TOTAL SANITARY SEWER 4" 6" 8" 10" 15" 18"	3209 6138 4518 3219 2433 382 469 875 765 22008 L.F.	6.72		147893.76	
SANITARY SEWER 8" 10" 15" 18"	FEET 6138 1932 0 0	FEET 8617 2006 0 1301	FEET 8520 900 0 0	FEET 7640 0 1970 0	FEET 9873 687 2406 63	408380 55250 45760 13640 52103	8278 630 540 9448	4" 6" 8" 10" 15" 18"	540 630 49116 5525 4376 1364				
WATER PIPE 2" 6" 8" 12"	FEET 0 816926 11496 0	FEET 723 372047 372047 0	FEET 0 429133 340551 200787	FEET 0 480314 435039 0	FEET 66929 248031 511810 237795	139229 2346451 1774407 438582 4698669	4528 750983 258853 0 10551.21	2" 6" 8" 12"	184507 3097434 2033265 438582	2.05		126179.55	
ELECTRICAL PRIMARY SECONDARY	FEET 9396 6007	FEET 9411 6776	FEET 10873 5957	FEET 9046 5982	FEET 9739 7162	48465 31884 80349	11896 6869 18765	TOTAL ELECTRICAL PRIMARY SECONDARY TOTAL	575379 L.F. 60361 38753 99114	5.00 2.15 1.20		287690.00 129776.15 46503.60	
												176279.75	1,714,861.11



CAPEHART HOUSING TELEPHONE DISTRIBUTION

CABLE SIZE	MORTGAGE AREA ONE	MORTGAGE AREA TWO	MORTGAGE AREA THREE	MORTGAGE AREA FOUR	MORTGAGE AREA FIVE	MEMO TOTALS	M.A.-6 J.O.-1	M.A.-6 J.O.-2	M.A.-6 S.O.-3	M.A.-6 TOTALS MOQ	CAPEHART PROJECT TOTALS
606-22	FEET 1582.67	FEET 629.92	FEET 1023.62	FEET 2685.03	FEET 0	5921.24	.0	0	0	0	5921.24
101-22	393.70	0	1165.35	157.48	2204.72	3921.25	0	0	0	0	3921.25
51-22	0	0	866.14	181.10	1496.06	2543.30	0	0	621.32	621.32	3164.62
26-22	3055.11	551.18	1102.36	0	2055.11	6763.76	1380.71	2795.93	0	4176.64	10940.40
16-22	4055.11	9173.21	5275.58	7007.86	3464.56	28976.32	1346.19	488.25	2140.10	3769.54	32945.86
16-19	0	0	0	0	0	0	0	0	1884.67	1884.67	1884.67
100 PAP	0	0	0	0	0	0	0	0	690.35	690.35	690.35
TOTALS	9086.59	10354.31	9433.05	10031.47	9220.45	48125.87	2726.9	3279.18	5336.44	11342.52	59468.39

CAPEHART PLANT ACCOUNT CONTINUED

BALANCE FORWARD	1714861.11
TELEPHONE DISTRIBUTION	59468 J.F. 1.30 7730840
LANDSCAPING & PLANTING	250 ACRES 90000.00
ELECTRICAL SUB-STATION	5744842
MASTER T.V. SYSTEM	35000.00
300,000 GAL WATER TANK	70000.00
	<u>2044617.93</u>



MORTGAGE AREA 1

MEASUREMENTS TAKEN FROM AS-BUILT DRAWING

SCALE: 1 cm. = 39.37007 FEET.

BITUMINOUS STREET	LENGTH CENTIMETERS	SERVICE DRIVE (BETWEEN)	LENGTH CENTIMETERS	House DRIVES Centimeters	Curb & GUTTER	LENGTH CENTIMETERS	SIDEWALK LENGTH CENTIMETERS	STORM SEWER	FEET LENGTH CENTIMETERS	SANITARY SEWER	LENGTH FEET
DELAWARE	306	DELA & UTAH	2100	AVERAGE length	DELAWARE	612	DELAWARE & FLORIDA	15"	573.00	8"	6188.00
UTAH	225	UTAH & CAROL	215	of 10% of houses	UTAH	450	UTAH & FLORIDA	18"	1907.00	10"	1932.00
CAROLINA	227	CAROL & LOUISI	220	in M.A. - is	CAROLINA	454	LOUIS. FLOR. & CAROL. FLORIDA	24"	1744.00		
LOUISIANA	221	LOUIS & OREG.	210	1.4 Centimeters.	LOUISIANA	442		36"	150.00		
OREGON	150	IND. & GEORG	251	Bldgs measured:	OREGON	300	MARY, IND. & OREGON				
GEORGIA	232	GEORG. & VIRG.	205	347, 357, 367, 377, 387	GEORGIA	464	MARY, GEORG. & OREGON				
VIRGINIA	579	VA. & STATE	560	397, 407, 417, 427, 437,	VIRGINIA	1158	MARY, VA. & DELAWARE				
FLORIDA	353			447, 457, 467, 477	FLORIDA	706					
TOTALS	2293		1871	138 @ 1.4 = 1932		4586			4374.00 FE.		8120.00 FE.

NO. FEET STREET = (229.3 cm) (39.37 FEET)	FEET DRIVEWAY = (193.2) (39.37)	FEET SIDEWALK = (261.0) (39.37)
= 9027.54 FEET	= 7606.284 FEET	= 10275.57 FEET
NO. MILES STREET = (9027.54 FEET) (5280.00 FEET)	MILES DRIVEWAY = 7606.28 / 5280	MILES SIDEWALK = 10275.57 / 5280
= 1.70976 MILES	= 1.44058 MILES	= 1.94613 MILES
NO. SQ. FEET STREET = (9027.54 FEET) (24 FEET)	SQ. FT. DRIVEWAY = (7606.28) (20) = 76,062.8	SQ. FT. SIDEWALK = (10,275.57) (4)
= 216,660.96 SQ. FEET	= <del>152,125.6</del> 76,062.8	= 41,102.28 SQ. FT.
NO. SQ. YDS STREET = (216,660.96 SQ. FT.) (9 SQ. FT.)	SQ. YDS DRIVEWAY = 76,062.8 / 9	SQ. YDS SIDEWALK = 41,102.28 / 9
= 24,073.44 SQ. YARDS	= 8451.42	= 4566.92 SQ. YDS
NO. FEET SERVICE DRIVES = (187.1) (39.37) =	FEET CURB & GUTTER = (458.6) (39.37)	
= 7366.127 FEET	= 18055.092 FEET	
NO. MILES SERVICE DRIVE = 7366.13 / 5280.00	SQ. FT. CURB & GUTTER = (18055.092) (2)	
= 1.3951 MILES	= 36110.16 SQ. FEET	
	MILES CURB & GUTTER = 36110.16 / 5280	
	= 6.839 MILES	
NO. SQ. FEET SERVICE DRIVE = (7366.127) (20) = 73,661.27	SQ. YDS CURB & GUTTER = 36110.16 / 9	
= <del>176,727.042</del> 73,661.27	= 4012.24 SQ. YDS	
NO. SQ. YDS SERVICE DRIVE = 73,661.27 / 9		
= 8184.59		

Year	Month	Day	Time	Location	Event	Remarks	Signature	Witness
1950	Jan	15	10:00 AM	St. Paul	Meeting	...	...	...
1950	Jan	20	11:00 AM	St. Paul	Meeting	...	...	...
1950	Jan	25	12:00 PM	St. Paul	Meeting	...	...	...
1950	Jan	30	1:00 PM	St. Paul	Meeting	...	...	...
1950	Feb	5	2:00 PM	St. Paul	Meeting	...	...	...
1950	Feb	10	3:00 PM	St. Paul	Meeting	...	...	...
1950	Feb	15	4:00 PM	St. Paul	Meeting	...	...	...
1950	Feb	20	5:00 PM	St. Paul	Meeting	...	...	...
1950	Feb	25	6:00 PM	St. Paul	Meeting	...	...	...
1950	Feb	30	7:00 PM	St. Paul	Meeting	...	...	...
1950	Mar	5	8:00 PM	St. Paul	Meeting	...	...	...
1950	Mar	10	9:00 PM	St. Paul	Meeting	...	...	...
1950	Mar	15	10:00 PM	St. Paul	Meeting	...	...	...
1950	Mar	20	11:00 PM	St. Paul	Meeting	...	...	...
1950	Mar	25	12:00 AM	St. Paul	Meeting	...	...	...
1950	Mar	30	1:00 AM	St. Paul	Meeting	...	...	...
1950	Apr	5	2:00 AM	St. Paul	Meeting	...	...	...
1950	Apr	10	3:00 AM	St. Paul	Meeting	...	...	...
1950	Apr	15	4:00 AM	St. Paul	Meeting	...	...	...
1950	Apr	20	5:00 AM	St. Paul	Meeting	...	...	...
1950	Apr	25	6:00 AM	St. Paul	Meeting	...	...	...
1950	Apr	30	7:00 AM	St. Paul	Meeting	...	...	...
1950	May	5	8:00 AM	St. Paul	Meeting	...	...	...
1950	May	10	9:00 AM	St. Paul	Meeting	...	...	...
1950	May	15	10:00 AM	St. Paul	Meeting	...	...	...
1950	May	20	11:00 AM	St. Paul	Meeting	...	...	...
1950	May	25	12:00 PM	St. Paul	Meeting	...	...	...
1950	May	30	1:00 PM	St. Paul	Meeting	...	...	...
1950	Jun	5	2:00 PM	St. Paul	Meeting	...	...	...
1950	Jun	10	3:00 PM	St. Paul	Meeting	...	...	...
1950	Jun	15	4:00 PM	St. Paul	Meeting	...	...	...
1950	Jun	20	5:00 PM	St. Paul	Meeting	...	...	...
1950	Jun	25	6:00 PM	St. Paul	Meeting	...	...	...
1950	Jun	30	7:00 PM	St. Paul	Meeting	...	...	...
1950	Jul	5	8:00 PM	St. Paul	Meeting	...	...	...
1950	Jul	10	9:00 PM	St. Paul	Meeting	...	...	...
1950	Jul	15	10:00 PM	St. Paul	Meeting	...	...	...
1950	Jul	20	11:00 PM	St. Paul	Meeting	...	...	...
1950	Jul	25	12:00 AM	St. Paul	Meeting	...	...	...
1950	Jul	30	1:00 AM	St. Paul	Meeting	...	...	...
1950	Aug	5	2:00 AM	St. Paul	Meeting	...	...	...
1950	Aug	10	3:00 AM	St. Paul	Meeting	...	...	...
1950	Aug	15	4:00 AM	St. Paul	Meeting	...	...	...
1950	Aug	20	5:00 AM	St. Paul	Meeting	...	...	...
1950	Aug	25	6:00 AM	St. Paul	Meeting	...	...	...
1950	Aug	30	7:00 AM	St. Paul	Meeting	...	...	...
1950	Sep	5	8:00 AM	St. Paul	Meeting	...	...	...
1950	Sep	10	9:00 AM	St. Paul	Meeting	...	...	...
1950	Sep	15	10:00 AM	St. Paul	Meeting	...	...	...
1950	Sep	20	11:00 AM	St. Paul	Meeting	...	...	...
1950	Sep	25	12:00 PM	St. Paul	Meeting	...	...	...
1950	Sep	30	1:00 PM	St. Paul	Meeting	...	...	...
1950	Oct	5	2:00 PM	St. Paul	Meeting	...	...	...
1950	Oct	10	3:00 PM	St. Paul	Meeting	...	...	...
1950	Oct	15	4:00 PM	St. Paul	Meeting	...	...	...
1950	Oct	20	5:00 PM	St. Paul	Meeting	...	...	...
1950	Oct	25	6:00 PM	St. Paul	Meeting	...	...	...
1950	Oct	30	7:00 PM	St. Paul	Meeting	...	...	...
1950	Nov	5	8:00 PM	St. Paul	Meeting	...	...	...
1950	Nov	10	9:00 PM	St. Paul	Meeting	...	...	...
1950	Nov	15	10:00 PM	St. Paul	Meeting	...	...	...
1950	Nov	20	11:00 PM	St. Paul	Meeting	...	...	...
1950	Nov	25	12:00 AM	St. Paul	Meeting	...	...	...
1950	Nov	30	1:00 AM	St. Paul	Meeting	...	...	...
1950	Dec	5	2:00 AM	St. Paul	Meeting	...	...	...
1950	Dec	10	3:00 AM	St. Paul	Meeting	...	...	...
1950	Dec	15	4:00 AM	St. Paul	Meeting	...	...	...
1950	Dec	20	5:00 AM	St. Paul	Meeting	...	...	...
1950	Dec	25	6:00 AM	St. Paul	Meeting	...	...	...
1950	Dec	30	7:00 AM	St. Paul	Meeting	...	...	...

MORTGAGE AREA TWO

MEASUREMENTS TAKEN FROM AS-BUILT DRAWINGS

SCALE: 1 CM = 39.37007 FEET

STREETS	LENGTH CM.	SERVICE DRIVES (BETWEEN)	LENGTH CM.	House DRIVES	LENGTH FEET	CURB & GUTTER	LENGTH CM.	SIDEWALK	LENGTH CM.	STORM SEWER SIZE	LENGTH FEET	SANITARY SEWER SIZE	LENGTH FEET
DELAWARE	6200	DELA, LOUIS; & OREGON	599	AVERAGE LENGTH		DELAWARE	1240	DELAWARE	604	15"	1184.00	8"	8617.00
MAINE CT.	911	LOUIS & CAR. CT.	290	OF 10% OF HOUSE		MAINE CT.	182	MARYLAND	271	18"	670.00	10"	2006.00
MARYLAND	441	MARY & OREG.	204	DRIVES IN M.A. - 2		MARYLAND	882	MARY, & OREG.	31.9	24"	640.00	18"	1301.00
OREGON	190	OREG & DELA.	189	IS 53 FEET		OREGON	380	LOUISIANA	391	30"	406.00		
LOUISIANA	410			BUILDINGS MEASURED:		LOUISIANA	820	CAROLINA CT.	70	36"	1026.00		
CAROLINA CT.	125			544, 554, 564, 574		CAROLINA CT.	250			42"	198.00		
				584, 594, 604, 614						48"	414.00		
				624, 634, 644, 654,									
				664, 674									
<del>TOTAL</del>	<del>1877</del>												
TOTALS	1877		1282	134 @ 53 = 7102			3754		1655		4538.00		11924.00

NO. FEET STREET = $(39.37 \text{ Ft}) / (187.7 \text{ CM})$	FEET HOUSE DRIVES = 7,102	FEET SIDEWALK = $(39.37)(105.5)$
= 7,389.749	MILES HOUSE DRIVES = $7102 \div 5280$	= 6515.735
NO. MILES STREET = $(1 \text{ MILE}) / (5280 \text{ FEET})$	= 1.34507 ← MILES	MILES SIDEWALK = $6515.74 \div 5280$
= 7389.75		= 1.23404 ← MILES
= 1.39957 ← MILES		
NO. SQ. FT. STREET = $(24 \text{ Ft}) (7,389.75)$	SQ. FT. HOUSE DRIVES = $(7102)(10)$	SQ. FEET SIDEWALK = $[6515.735][4]$
= 177,353.976	= 71,020.00	= 26,062.94
NO. SQ. YDS. STREET = $(1 \text{ SQ. YD}) / (9 \text{ SQ. FT.})$	SQ. YDS. HOUSE DRIVES = $71,020.00 \div 9$	SQ. YDS SIDEWALK = $26,062.94 \div 9$
= 19,705.9977 ← SQ. YDS	= 7891.11 ← SQ. YDS	= 2895.8822 ← SQ. YDS
FEET SERVICE DRIVES = $(39.37)(1282)$	FEET CURB & GUTTER = $(375.4)(39.37)$	
= 5047.234	= 14,779.498	
MILES SERVICE DRIVE = $5047.23 \div 5280$	MILES CURB & GUTTER = $14,779.5 \div 5280$	
= 0.95591 ← MILES	= 2.79914 ← MILES	
SQ. FT. SERVICE DRIVE = $(5047.234)(10)$	SQ. FT. CURB & GUTTER = $(14,779.498)(2)$	
= 50,472.34	= 29,558.996	
SQ. YDS SERVICE DRIVE = $50,472.34 \div 9$	SQ. YDS CURB & GUTTER = $29,559 \div 9$	
= 5608.0377 ←	= 3284.333 ← SQ. YDS	



MORTGAGE AREA ~~FIVE~~ THREE

MEASUREMENTS TAKEN FROM AS-BUILT DRAWINGS

SCALE: 1cm = 39.37 FEET

STREETS <del>ESTIMATOR</del>	LENGTH CM.	SERVICE DRIVES (BETWEEN)	LENGTH CM.	House DRIVES	LENGTH FEET	Curb & GUTTER	LENGTH CM.	SIDEWALK	LENGTH CM.	STORM SEWER SIZE	LENGTH FEET	SANITARY SEWER SIZE	LENGTH FEET
OREGON	300	DELA. & ILL.	235	Average length of		OREGON	6000	MARY, DELA, OREGON	355	15"	280	8"	852000
MARYLAND	530	ILL. & FLOR.	250	1070 of houses in		MARYLAND	10600	MARY, ILL OREGON	398	18"	222	10"	90000
MICHIGAN	479	FLOR. & IND.	260	M.A.-3 is <u>50 FEET</u>		MICHIGAN	958	MARY, FLOR, OREGON	399	24"	553		
DELAWARE	209	MARY. & Mich	350	Building MEASURED:		DELAWARE	418	FLOR. & Mich.	570	30"	1801		
ILLINOIS	249	Mich. & Stone	359	268, 278, 288, 298 308, 318, 328, 338		ILLINOIS	498	WASHINGTON	270	36"	310		
FLORIDA	360	Wash & Mich	250	346, 485, 495, 505, 515, 525, 535,		FLORIDA	720	CONNECTICUT	290				
INDIANA	260	Conn. & Wash.	291			INDIANA	520						
WASHINGTON	275					WASHINGTON	550						
TOTALS	2662		1995	138 @ 50 = 690000			5324		2282		291400		942000

STREETS:  
 NO. FEET =  $(2662)(39.37) = 10,480.29$  Ft.  
 NO. SQ. FT. =  $(10,480.29)(24) = 251,526.96$   
 NO. SQ. YDS =  $251,526.96 \div 9 = 27,947.44$   
 NO. MILES =  $10,480.29 \div 5280 = 1.9849$

House Drives:  
 NO. SQ. FT. =  $(6900)(10) = 69,000.00$   
 NO. SQ. YDS =  $69,000 \div 9 = 7,666.66$   
 NO. MILES =  $69,000 \div 5280 = 1.3068$

SIDEWALK:  
 NO. FEET =  $2282 [39.37] = 8984.234$   
 NO. SQ. FT. =  $(4)(8984.234) = 35,936.936$   
 NO. SQ. YDS =  $35,936.936 \div 9 = 3992.99288$   
 NO. MILES =  $8984.234 \div 5280 = 1.70155$

SERVICE DRIVES:  
 NO. FEET =  $(1995)(39.37) = 7854.315$   
 NO. SQ. FT. =  $(7854.315)(10) = 78,543.15$   
 NO. SQ. YDS =  $(78,543.15)(9) = 8727.016666$   
 NO. MILES =  $7854.315 \div 5280 = 1.48755$

Curb & Gutter:  
 NO. FEET =  $(5324)(39.37) = 20960.588$   
 NO. SQ. FT. =  $[20960.588][2] = 41,921.176$   
 NO. SQ. YDS =  $41,921.176 \div 9 = 4657.908$   
 NO. MILES =  $20960.588 \div 5280 = 3.9678$

Year	Month	Day	Event	Location	Notes
1942	Jan	1	...	...	...
1942	Jan	2	...	...	...
1942	Jan	3	...	...	...
1942	Jan	4	...	...	...
1942	Jan	5	...	...	...
1942	Jan	6	...	...	...
1942	Jan	7	...	...	...
1942	Jan	8	...	...	...
1942	Jan	9	...	...	...
1942	Jan	10	...	...	...
1942	Jan	11	...	...	...
1942	Jan	12	...	...	...
1942	Jan	13	...	...	...
1942	Jan	14	...	...	...
1942	Jan	15	...	...	...
1942	Jan	16	...	...	...
1942	Jan	17	...	...	...
1942	Jan	18	...	...	...
1942	Jan	19	...	...	...
1942	Jan	20	...	...	...
1942	Jan	21	...	...	...
1942	Jan	22	...	...	...
1942	Jan	23	...	...	...
1942	Jan	24	...	...	...
1942	Jan	25	...	...	...
1942	Jan	26	...	...	...
1942	Jan	27	...	...	...
1942	Jan	28	...	...	...
1942	Jan	29	...	...	...
1942	Jan	30	...	...	...
1942	Jan	31	...	...	...

MORTGAGE AREA FOUR

MEASUREMENTS TAKEN FROM AS-BUILT DRAWINGS

SCALE 1CM. = 39.37 FEET

STREETS	LENGTH CM.	SERVICE DRIVES (BETWEEN)	LENGTH CM.	HOUSE DRIVES	LENGTH FEET	CURB & GUTTER	LENGTH CM	SIDEWALK	LENGTH CM	STORM SEWER SIZE	LENGTH FEET	SANITARY SEWER SIZE	LENGTH FEET
FLORIDA	4200	FLOR. & CONN.	465	Average length of 1070 of house drives in project is 53 FEET 5 miles measured 5; 15; 25; 35; 45; 55; 65; 75; 85; 95; 105; 244; 254; 264		FLORIDA	840	FLORIDA	300	18"	8900	8"	7640
CONNECTICUT	5100	CONN. & WASH.	260		CONNECTICUT	1020	Colo, Mich, ST & ALABAMA	360	24"	8520	15"	1970	
WASHINGTON	2600	WASH. & Mich.	275		WASHINGTON	520	Colo, Flor, & ALA.	280	30"	7500			
MICHIGAN	465	MICH. & STONE	290		MICHIGAN	930	Colo, Conn, & ALA.	380	36"	3080			
COLORADO	460	Colo. & ALA.	170		COLORADO	920	Colo. Wash, & ALA.	390	42"	1840			
ALABAMA	560				ALABAMA	1120	Mich, GAN	400					

TOTALS	2675		1460	131 @ 53 = 6943.00			535		211		29840		96100
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STREETS:	NO. FEET = (2675)(39.37) = 10,531.475 FT	HOUSE DRIVES:	NO. SQ. FT. = (6943)(10) = 69430	SIDEWALK:	NO. FEET = (211)(39.37) = 8307.07
	NO. SQ. FT. = (24)(10,531.475) = 252,755.4		NO. SQ. YDS = 69430 ÷ 9 = 7714.44		NO. SQ. FT. = (8307.07)(4) = 33228.28
	NO. SQ. YDS = (252,755.4) ÷ 9 = 28,083.93		NO. MILES = 6943 ÷ 5280 = 1.31496		NO. SQ. YDS = 33228.28 ÷ 9 = 3692.03
	NO. MILES = 10531.475 ÷ 5280 = 1.99459				NO. MILES = 8307.07 ÷ 5280 = 1.5733

SERVICE DRIVES:	NO. FEET = (1460)(39.37) = 5748.02	CURB & GUTTER:	NO. FEET = (535)(39.37) = 21062.95
	NO. SQ. FT. = (5748.02)(10) = 57,480.2		NO. SQ. FT. = (21062.95)(2) = 42125.90
	NO. SQ. YDS = 57480.2 ÷ 9 = 6386.68		NO. SQ. YDS = 42125.9 ÷ 9 = 4680.655
	NO. MILES = 5748.02 ÷ 5280 = 1.08864		NO. MILES = 21062.95 ÷ 5280 = 3.989

Year	Month	Day	Event	Location	Notes
1900	Jan	1	...	...	...
1900	Jan	2	...	...	...
1900	Jan	3	...	...	...
1900	Jan	4	...	...	...
1900	Jan	5	...	...	...
1900	Jan	6	...	...	...
1900	Jan	7	...	...	...
1900	Jan	8	...	...	...
1900	Jan	9	...	...	...
1900	Jan	10	...	...	...
1900	Jan	11	...	...	...
1900	Jan	12	...	...	...
1900	Jan	13	...	...	...
1900	Jan	14	...	...	...
1900	Jan	15	...	...	...
1900	Jan	16	...	...	...
1900	Jan	17	...	...	...
1900	Jan	18	...	...	...
1900	Jan	19	...	...	...
1900	Jan	20	...	...	...
1900	Jan	21	...	...	...
1900	Jan	22	...	...	...
1900	Jan	23	...	...	...
1900	Jan	24	...	...	...
1900	Jan	25	...	...	...
1900	Jan	26	...	...	...
1900	Jan	27	...	...	...
1900	Jan	28	...	...	...
1900	Jan	29	...	...	...
1900	Jan	30	...	...	...
1900	Jan	31	...	...	...
1900	Feb	1	...	...	...
1900	Feb	2	...	...	...
1900	Feb	3	...	...	...
1900	Feb	4	...	...	...
1900	Feb	5	...	...	...
1900	Feb	6	...	...	...
1900	Feb	7	...	...	...
1900	Feb	8	...	...	...
1900	Feb	9	...	...	...
1900	Feb	10	...	...	...
1900	Feb	11	...	...	...
1900	Feb	12	...	...	...
1900	Feb	13	...	...	...
1900	Feb	14	...	...	...
1900	Feb	15	...	...	...
1900	Feb	16	...	...	...
1900	Feb	17	...	...	...
1900	Feb	18	...	...	...
1900	Feb	19	...	...	...
1900	Feb	20	...	...	...
1900	Feb	21	...	...	...
1900	Feb	22	...	...	...
1900	Feb	23	...	...	...
1900	Feb	24	...	...	...
1900	Feb	25	...	...	...
1900	Feb	26	...	...	...
1900	Feb	27	...	...	...
1900	Feb	28	...	...	...
1900	Feb	29	...	...	...
1900	Mar	1	...	...	...
1900	Mar	2	...	...	...
1900	Mar	3	...	...	...
1900	Mar	4	...	...	...
1900	Mar	5	...	...	...
1900	Mar	6	...	...	...
1900	Mar	7	...	...	...
1900	Mar	8	...	...	...
1900	Mar	9	...	...	...
1900	Mar	10	...	...	...
1900	Mar	11	...	...	...
1900	Mar	12	...	...	...
1900	Mar	13	...	...	...
1900	Mar	14	...	...	...
1900	Mar	15	...	...	...
1900	Mar	16	...	...	...
1900	Mar	17	...	...	...
1900	Mar	18	...	...	...
1900	Mar	19	...	...	...
1900	Mar	20	...	...	...
1900	Mar	21	...	...	...
1900	Mar	22	...	...	...
1900	Mar	23	...	...	...
1900	Mar	24	...	...	...
1900	Mar	25	...	...	...
1900	Mar	26	...	...	...
1900	Mar	27	...	...	...
1900	Mar	28	...	...	...
1900	Mar	29	...	...	...
1900	Mar	30	...	...	...
1900	Mar	31	...	...	...
1900	Apr	1	...	...	...
1900	Apr	2	...	...	...
1900	Apr	3	...	...	...
1900	Apr	4	...	...	...
1900	Apr	5	...	...	...
1900	Apr	6	...	...	...
1900	Apr	7	...	...	...
1900	Apr	8	...	...	...
1900	Apr	9	...	...	...
1900	Apr	10	...	...	...
1900	Apr	11	...	...	...
1900	Apr	12	...	...	...
1900	Apr	13	...	...	...
1900	Apr	14	...	...	...
1900	Apr	15	...	...	...
1900	Apr	16	...	...	...
1900	Apr	17	...	...	...
1900	Apr	18	...	...	...
1900	Apr	19	...	...	...
1900	Apr	20	...	...	...
1900	Apr	21	...	...	...
1900	Apr	22	...	...	...
1900	Apr	23	...	...	...
1900	Apr	24	...	...	...
1900	Apr	25	...	...	...
1900	Apr	26	...	...	...
1900	Apr	27	...	...	...
1900	Apr	28	...	...	...
1900	Apr	29	...	...	...
1900	Apr	30	...	...	...
1900	Apr	30	...	...	...

MORTGAGE AREA FIVE

MEASUREMENTS TAKEN FROM AS-BUILTS

SCALE 1 CM = 39.37 FEET

STREET	LENGTH CM.	SERVICE DRIVE	LENGTH CM.	HOUSE DRIVES	LENGTH FEET	CURB & GUTTER	LENGTH CM.	SIDEWALK	LENGTH CM.	STORM SEWER SIZE	LENGTH FEET	SANITARY SEWER SIZE	LENGTH FEET
DELAWARE	195	COLORADO	425	AVERAGE LENGTH OF 10% OF HOUSE DRIVES IN MIA-5 IS: 53.64 FEET DRIVES MEASURED: 108; 118; 128; 138; 148; 158; 168; 178; 188; 198; 208; 218; 228; 238;		DELAWARE	390	DELAWARE	195	15"	452	8"	9873
MICHIGAN	75	ARKANSAS	295		MICHIGAN	150	VT; ALA; ARK ALA; & Colo.	985	18"	2128	10"	687	
VERMONT CT.	12	ARIZ. & ARK.	28		VERMONT CT.	24	ALABAMA	18	24"	102	15"	2406	
ARKANSAS	30	ALA. & ARIZ.	215		ARKANSAS	60	ALA; ARIZ; ALA.	41	30"	262	18"	63	
ARIZONA	245				ARIZONA	49	ALABAMA	30	36"	639			
ALABAMA	107				ALABAMA	214			48"	55			
COLORADO	315				COLORADO	630							

TOTALS	232		1215	136 @ 53.6 = 7289.6	<del>1034</del>			207			3638		13029
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STREETS: NO. FEET = (232)(39.37) = 9133.84 NO. SQ. FT. = (9133.84)(24) = 219,212.16 NO. SQ. YDS = 219,212.16 ÷ 9 = 24,356.9 NO. MILES = $\frac{9133.84}{5280} = 1.72989$	HOUSE DRIVES: NO. SQ. FT. = (7289.6)(10) = 72,896 NO. SQ. YDS = 72,896 ÷ 9 = 8099.5555 NO. MILES = 72,896 ÷ 5280 = 1.3806	SIDEWALK: NO. FEET = (207)(39.37) = 8149.59 NO. SQ. FT. = (8149.59)(4) = 32,598.36 NO. SQ. YDS = 32,598.36 ÷ 9 = 3622.04 NO. MILES = 8149 ÷ 5280 = 1.54348
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SERVICE DRIVES: NO. FEET = (1215)(39.37) = 4783.455 NO. SQ. FT. = (4783.455)(10) = 47,834.55 NO. SQ. YDS = 47,834.55 ÷ 9 = 5314.95 NO. MILES = 4783.455 ÷ 5280 = 0.90595	CURB & GUTTER: NO. FEET = (464)(39.37) = 18267.68 NO. SQ. FT. = (18267.68)(2) = 36,535.36 NO. SQ. YDS = (36,535.36) ÷ (9) = 4059.484 NO. MILES = 18267.68 ÷ 5280 = 3.45978
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Year	Month	Day	Event	Location	Notes
1911	Jan	1	...	...	...
1911	Jan	2	...	...	...
1911	Jan	3	...	...	...
1911	Jan	4	...	...	...
1911	Jan	5	...	...	...
1911	Jan	6	...	...	...
1911	Jan	7	...	...	...
1911	Jan	8	...	...	...
1911	Jan	9	...	...	...
1911	Jan	10	...	...	...
1911	Jan	11	...	...	...
1911	Jan	12	...	...	...
1911	Jan	13	...	...	...
1911	Jan	14	...	...	...
1911	Jan	15	...	...	...
1911	Jan	16	...	...	...
1911	Jan	17	...	...	...
1911	Jan	18	...	...	...
1911	Jan	19	...	...	...
1911	Jan	20	...	...	...
1911	Jan	21	...	...	...
1911	Jan	22	...	...	...
1911	Jan	23	...	...	...
1911	Jan	24	...	...	...
1911	Jan	25	...	...	...
1911	Jan	26	...	...	...
1911	Jan	27	...	...	...
1911	Jan	28	...	...	...
1911	Jan	29	...	...	...
1911	Jan	30	...	...	...
1911	Jan	31	...	...	...

MORTGAGE AREA SIX

MEASUREMENTS TAKEN FROM AS-BUILTS

SCALE: J.O.-1 & J.O.-2 1cm = 19.685035 FEET  
 S.O.-3 (2)(1cm) = 19.685035 FEET

STREET	LENGTH CM	SERVICE DRIVE	LENGTH CM	HOUSE DRIVES	LENGTH FEET	CURB & GUTTER	LENGTH CM	SIDEWALK	LENGTH CM	STORM SEWER SIZE	LENGTH FEET	SANITARY SEWER SIZE	LENGTH FEET
S.O.-3 Cukela St. (2)(58)=116		S.O.-3 Cukela St. (2)(45)=90		S.O.-3 48 @ 82	3936.00	S.O.-3 Cukela St.	232	S.O.-3 Cukela St. (2)(40)=80		S.O.-3 18"	162.00	S.O.-3 6"	630.00
Cukela Cir (2)(43)=86		Cukela Cir (2)(17)=34				Cukela Cir	172	Cukela Cir (2)(55)=110		24"	480.00	4"	540.00
	202		124		3936		404		190		642	8"	2155.00
J.O.-1 Hill St.	69	J.O.-1 Hill St.	51	J.O.-1 33 @ 83	2739.00	J.O.-1 NONE	0	J.O.-1 NONE	0	J.O.-1 15"	972	J.O.-1 8"	2813
Dewey St.	19									18"	66.00		
	88		51		2739		0		0		1038		2813
J.O.-2 Timmerman Pl	59	J.O.-2 River Rd.	57	J.O.-2 42 @ 79	3318	J.O.-2 Timmerman Av	118	J.O.-2 NONE	0	J.O.-2 24"	149.00	J.O.-2 8"	3310
Timmerman Av	51.5	Pender St.	50.5			Timmerman Pl.	1030			18"	93.00		
										43"x27"	875.00		
										36"x22"	765.00		
	110.5		107.5		3318		221		0		1880.00		3310
TOTALS	400.5		282.5		9993.0		625.0		190.0		3560.00		9448.00

STREETS:  
 NO. FEET = (312.5)(19.685) = 6151.56 [S.O. & S.O.2]  
 NO. FEET = (88)(19.685) = 1732.28 [J.O.-1]  
 TOTAL FE. = 6151.56 + 1732.28 = 7883.84  
 NO. MILES = 7883.84 ÷ 5280 = 1.49315  
 NO. SQ. FT. = (6151.56)(24) + (1732.28)(22)  
 = 147,637.44 + 38,110.16  
 = 185,747.6  
 NO. SQ. YDS = 185,747.6 ÷ 9 = 20,638.62

SERVICE DRIVES:  
 NO. FEET = (282.5)(19.685) = 5561.01  
 NO. SQ. FT. = (5561.01)(10) = 55610.1  
 NO. SQ. YDS = 55610.1 ÷ 9 = 6178.9  
 NO. MILES = 5561.01 ÷ 5280 = 1.0532  
 HOUSE DRIVES:  
 NO. SQ. FT. = (9993)(10) = 99930  
 NO. SQ. YDS = 99930 ÷ 9 = 11103.33  
 NO. MILES = 9993 ÷ 5280 = 1.8926

CURB & GUTTER:  
 NO. FEET = (625)(19.685) = 12303.13  
 NO. SQ. FT. = (12303.125)(2) = 24,606.25  
 NO. SQ. YDS = 24606.25 ÷ 9 = 2734.03  
 NO. MILES = 12303.125 ÷ 5280 = 2.3301  
 SIDEWALK:  
 NO. FEET = (190)(19.685) = 3740.15  
 NO. SQ. FT. = (3740.15)(4) = 14960.6  
 NO. SQ. YDS = 14960.6 ÷ 9 = 1662.29  
 NO. MILES = 3740.15 ÷ 5280 = 0.7084

Year	Month	Day	Time	Location	Activity	Remarks	Signature
1957	10	10	10:00	...	...	...	...
1957	10	11	10:00	...	...	...	...
1957	10	12	10:00	...	...	...	...
1957	10	13	10:00	...	...	...	...
1957	10	14	10:00	...	...	...	...
1957	10	15	10:00	...	...	...	...
1957	10	16	10:00	...	...	...	...
1957	10	17	10:00	...	...	...	...
1957	10	18	10:00	...	...	...	...
1957	10	19	10:00	...	...	...	...
1957	10	20	10:00	...	...	...	...
1957	10	21	10:00	...	...	...	...
1957	10	22	10:00	...	...	...	...
1957	10	23	10:00	...	...	...	...
1957	10	24	10:00	...	...	...	...
1957	10	25	10:00	...	...	...	...
1957	10	26	10:00	...	...	...	...
1957	10	27	10:00	...	...	...	...
1957	10	28	10:00	...	...	...	...
1957	10	29	10:00	...	...	...	...
1957	10	30	10:00	...	...	...	...
1957	10	31	10:00	...	...	...	...

ELECTRICAL DISTRIBUTION  
MEASUREMENTS TAKEN FROM AS-BUILT DRAWINGS

MORTGAGE AREA ONE			MORTGAGE AREA TWO			MORTGAGE AREA THREE			MORTGAGE AREA FOUR		
FROM POLE # TO POLE #	PRIMARY FEET	SECONDARY FEET	FROM POLE # TO POLE #	PRIMARY FEET	SECONDARY FEET	FROM POLE # TO POLE #	PRIMARY FEET	SECONDARY FEET	FROM POLE # TO POLE #	PRIMARY FEET	SECONDARY FEET
E96-E97	186.00	0.00	E194-E204	1556	748.00	E1-E17	1466.00	1498.00	E256-E265	1382.00	0.00
E97-E105	808	650		1556	748.00		1466	1498	E263-E377	335	0.00
E100-E110	325	0.00	E190-E213	764	461	E17-E19	305	0.00		1717	
E110-E116	644	538	E213-E217	265	122	E19-E19	305		E376-E423	1130	723
E116-E118	304	0.00	E217-E226	545	390	E19-E19	385	0.00	E376-E411	438	656
E121-E132	1772	1409		1574	773	E26-E275	818	738.00		1568	1439
	4059	2597	E236-E238	168	0.00		1203	738	E424-E431	687	742
E28-E71	766.00	252.00	E238-E243	511	483	E19-E25	934	0.00		687	742
E71-E75	390	164	E238-E245	405	525	E25-E28	556	0.00	E443-E450	849	669
E75-E85	662	854		1084	1008		1490			849	669
	1818	1270	E28-E183	320	377	E19-E188	470	0.00	E390-E404	1742	1234
E28-E30	376.00	0.00		320	377	E185-E254	708	885.00		1742	1234
E30-E49	735.00	817	E30-E172	103	0.00	E185-E186	0.00	108.00	E265-E268	565	365
E49-E55	322	122	E172-E178	481	395		1178	793	E268-E269	120	0.00
E55-E65	628	677		584	375	E188-E236	740	893.00		685	365
	2061	1616	E32-E148	133	0.00		940	893	E350-E364	150	0.00
E30-E35	632.00	0.00	E148-E153	382	444	E188-E189	120	0.00	E364-E375	1648	1533
E35-E40	826	524		515	444	E189-E190	120	0.00		1798	1533
	1458	524	E153-E171	1215	895		210		TOTALS	9046	5782
TOTALS	9396	6007	E153-E162	918	492	E17-E256	310	0.00	MORTGAGE AREA SIX		
MORTGAGE AREA FIVE				2033	1377		310		S.O.-1		
E269-E289	1573	1716	E35-E134	667	0.00	E377-E378	150	0.00	S1-S4	298	390
E269-E350	300	0.00	E134-147	1898	1434	E424-E378	132	0.00	S1-S5	200	-0-
	1873	1716	TOTALS	9411	6776	E378-E380	320	0.00	S5-S17	1780	1280
E350-E355	740	740.00				E378-E437	975	502.00	S5-S26	555	-0-
E355-E358	540	540					1577	502	S9-S23	332	282
E358-E363	770	615				E380-E459	827	623	S26-S46	2105	740
	2050	1895				E443-E380	114	0.00		5270	2612
E289-E337	824	643				E380-E382	363	0.00	J.O.-1		
E337-E345	280	240					1304	623	J11-J19	1087	757
E289-E272	300	0.00				E370-E382	110	0.00	J112-J120	1252	795
	1404	883				E382-E388	750	710.00		2339	1752
E292-E295	414	100				TOTALS	10873	5757	J.O.-2		
E292-E305	1548	888							J21-J239	676	300
E299-E332	1220	740							J21-J23	180	-0-
E302-E315	835	570							J23-J223	385	101
	4017	2298							J223-J239	375	247
E190-E194	375	370							J23-J218	2119	1076
	375	370							J223-J234	552	701
TOTALS	9739	7162							TOTALS	11896	6869



WATER DISTRIBUTION PIPELINE  
MEASUREMENTS TAKEN FROM AS-BUILT DRAWINGS

SCALE: 1 cm = 39.37007 Feet  
(J.O.-1, J.O.-2) (#cm.) (0.5) = 39.37 FEET

MORTGAGE STREET	AREA-ONE SIZE-INCHES LENGTH-CM.	MORTGAGE STREET	AREA 2 SIZE-INCHES LENGTH-CM.	MORTGAGE STREET	AREA 3 SIZE-INCHES LENGTH-CM.	MORTGAGE STREET	AREA FOUR SIZE-INCHES LENGTH-CM.	MORTGAGE STREET	AREA 5 SIZE-INCHES LENGTH-CM.	MORTGAGE STREET	AREA 6 SIZE-INCHES LENGTH-CM.
DELAWARE	8" - 29.2	DELAWARE	8" - 51.0	DELAWARE	6" - 23.0	FLORIDA	6" - 44	MARYLAND	8" - 11	S.O.-1	6" - 42.0
UTAH	6" - 24.0	MAINE CT.	8" - 7.5	ILLINOIS	6" - 27	CONNECTICUT	6" - 24	MARYLAND	12" - 19	CUKELA CR.	6" - 58.5
CAROLINA	6" - 24.5	MARYLAND	8" - 36.0	FLORIDA	8" - 37.5	WASHINGTON	6" - 29	DELAWARE	12" - 20.5	CUKELA ST.	1 1/2" - 8.0
LOUISIANA	6" - 24.0	OREGON	6" - 40.1	MARYLAND	12" - 51	MICHIGAN	8" - 46	ALABAMA	12" - 38	J.O.-1	HILL STREET 8" - (62)(.5) = 31.0
OREGON	6" - 25.0	LOUISIANA	6" - 42.5	MICHIGAN	8" - 49	COLORADO	6" - 25	ALABAMA	8" - 74	J.O.-1	DEWEY ST. 8" - (22)(.5) = 11.0
INDIANA	6" - 26.0	CAROLINA CT.	2" - 18.4	CONNECTICUT	6" - 31	COLORADO	8" - 15	COLORADO	8" - 32	MICHIGAN	8" - 13
GEORGIA	6" - 24.0	DELAWARE	6" - 10.0	WASHINGTON	6" - 28	ALABAMA	8" - 49.5	VERMONT	2" - 17	VERMONT	2" - 17
VIRGINIA	6" - 60.0	CAROLINA CT.	6" - 19	TOTAL	12" - 51	TOTAL	8" - 110.5	VERMONT	2" - 4	TIMMERMAN PL.	8" - (39.5)(.5) = 19.75
TOTAL	8" - 29.2	TOTAL	8" - 94.5	TOTAL	8" - 86.5	TOTAL	6" - 122	VERMONT	6" - 4	PENDER	8" - (8)(.5) = 4.0
TOTAL	6" - 207.5	TOTAL	6" - 94.5	TOTAL	6" - 109	FEET 8" = (10.5)(39.37) = 4150.385	FEET 8" = (130)(39.37) = 5118.1	ARIZONA	6" - 27	PENDER	6" - (49)(.5) = 24.5
FEET 8" = (29.2)(39.37) = 1149.6		TOTAL	2" - 18.4	FEET 8" = (39.37)(96.5) = 3405.51	FEET 6" = (122)(39.37) = 4803.14	FEET 6" = (130)(39.37) = 5118.1	FEET 6" = (63)(39.37) = 2480.31	ARKANSAS	6" - 32	STONE	6" - (23.5)(.5) = 11.75
FEET 6" = (207.5)(39.37) = 8169.26		FEET 8" = (39.37)(94.5) = 3720.47	FEET 12" = (39.37)(51) = 2007.87	FEET 12" = (39.37)(51) = 2007.87	TOTAL = 9153.53	FEET 6" = (63)(39.37) = 2480.31	FEET 2" = (17)(39.37) = 669.29	FEET 8" = (130)(39.37) = 5118.1	FEET 2" = (17)(39.37) = 669.29	STONE	2" - (7)(.5) = 3.5
TOTAL = 938.86		FEET 6" = (39.37)(94.5) = 3720.47	FEET 2" = (39.37)(18.4) = 723'	FEET 6" = (39.37)(109) = 4291.33		FEET 2" = (17)(39.37) = 669.29	FEET 12" = (60.4)(39.37) = 2377.95	FEET 6" = (63)(39.37) = 2480.31	FEET 12" = (60.4)(39.37) = 2377.95	TIMMERMAN AV.	6" - (54)(.5) = 27
		TOTAL = 8163.94	TOTAL = 723'	TOTAL = 4291.33		TOTAL = 10645.65	TOTAL = 10645.65	TOTAL 8" = (65.75)(39.37) = 2589.58 FEET	TOTAL 8" = (65.75)(39.37) = 2589.58 FEET	TOTAL 8"	
								TOTAL 6" = (190.75)(39.37) = 7509.83 FEET	TOTAL 6" = (190.75)(39.37) = 7509.83 FEET	TOTAL 6"	
								TOTAL 2" = (3.5)(39.37) = 137.8 FEET	TOTAL 2" = (3.5)(39.37) = 137.8 FEET	TOTAL 2"	
								TOTAL 1 1/2" = (8)(39.37) = 315 FEET	TOTAL 1 1/2" = (8)(39.37) = 315 FEET	TOTAL 1 1/2"	
								TOTAL = 10551.21 FEET	TOTAL = 10551.21 FEET	TOTAL	

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