

W
632

DEFENSE PUBLIC WORKS
Civic Center San Diego
EUGENE DIETZGEN CO.

DRAWING MATERIALS, MATHEMATICAL and SURVEYING INSTRUMENTS
Chicago New York San Francisco New Orleans Pittsburg Toronto

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.
Roadway 16 feet wide. Side Slopes 1 on 1.
For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	0
1	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	1
2	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	2
3	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	3
4	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	4
5	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	5
6	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	6
7	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	7
8	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	8
9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	9
10	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	10
11	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	11
12	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	12
13	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	13
14	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	14
15	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	15
16	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	16
17	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	17
18	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	18
19	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	19
20	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	20
21	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	21
22	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	22
23	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	23
24	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	24
25	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	25
26	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	26
27	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	27
28	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	28
29	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	29
30	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	30
31	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	31
32	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	32
33	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	33
34	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	34
35	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	35
36	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	36
37	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	37
38	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	38
39	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	39
40	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 30.6. For same slopes but other widths of roadbed, correct above figures by one-half difference in width of roadbed; thus in example above, for 20 ft. roadbed distance will be $30.6 + (20 - 16) \times 2$ or 2 ft. added to $30.6 = 32.6$. For slopes of 1 on $1\frac{1}{2}$ see inside of back cover.

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632

632

4.31
1.78
2.53

Please Return to
City of San Diego Water Dept.
Room 903 Civic Center

MICROFILMED

JAN 13 1965

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Pa.	
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Alice

TOPOG. FOR 10 MILLION GAL RES.

Catalina St near Varona St

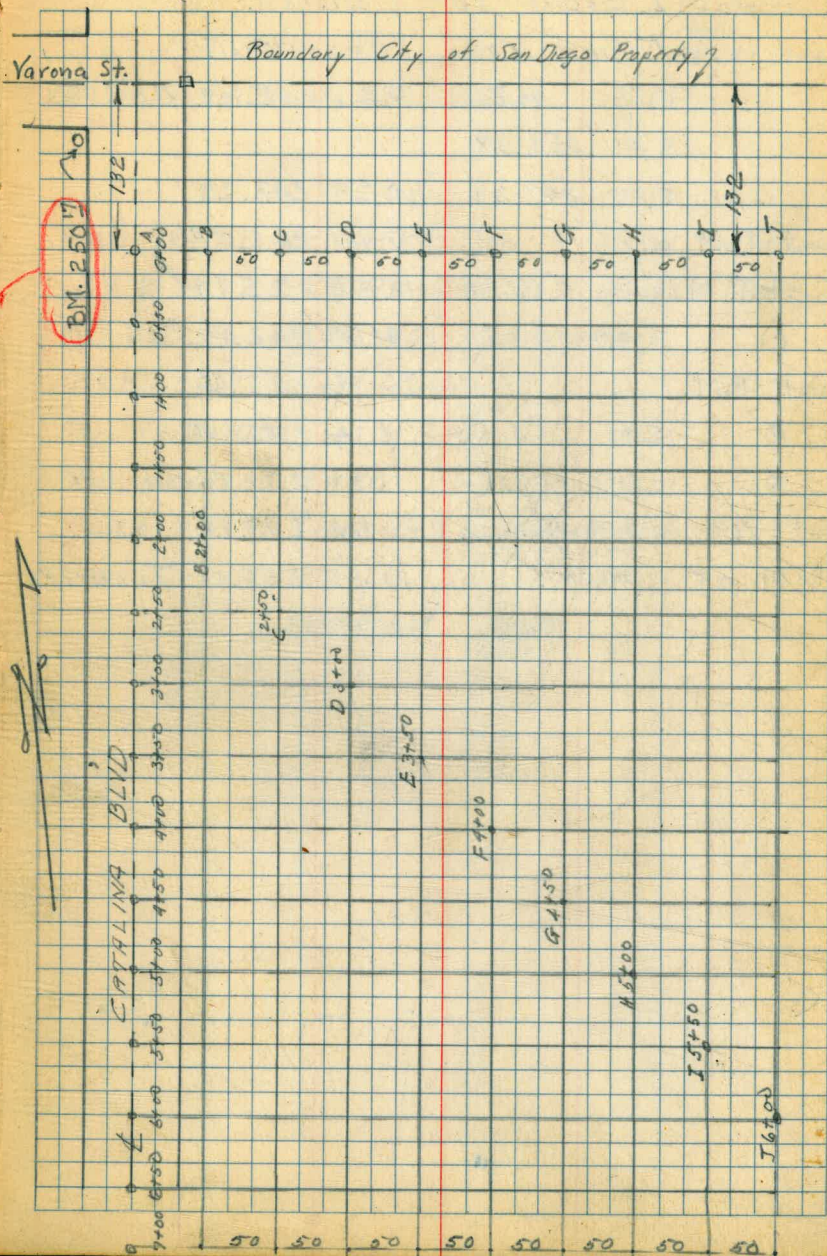
General Plan of Grid for
Location of Elevs.

S.B. 250.82

Jan, 20, 1942.

P.S. Barber

+ Party



Levels for Control.

10 Million Gal. Reservoir.

B.S.	H.I.	F.S.	Elev.
3.41	253.58		250.17
5.10	248.39	10.29	243.29
Set BM		2.67	245.72
Set BM 1.10	236.99	12.50	235.89
⊙	11.40	243.82	4.57 232.42
Set BM.		6.16	237.66
⊙	12.48	254.16	2.14 241.68
⊙	10.06	262.84	1.38 252.78
Set BM 1.34	260.58	3.60	259.24
BM at Start.		10.40	250.18 To check

SB 250.82
WCB

2.
2

P.S. Barker &
Party
Jan. 20, 1942

BM. SW Cor. Verona & Catalina

Nail in SE Cor. of Res Top; 3" below Top in side.

2"x2" - 25 SE. Privy & 50' S. of SE Cor. Res.

⊙ 20' E. of H 3+00

2"x2" 20' S. of I 6+50

By G 6+50

Red Head C 6+50

Spike in PP #1080 West Side Curb; Sta 5+85

Checked ~~7/11~~

ELEVATIONS ON RESERVOIR
POINT LOMA.

See p. 2 WCB

245.72 B.M.

T ^{#1}	3.30	249.02 ✓	
NOR. INLET	5.86	243.16 ✓	
SO. INLET	3.99	245.03 ✓	
OUTLETS ARE IN WATER AND IT IS NOT POSSIBLE TO DETERMINE ELEV. EXACTLY.			
No. 1 OUTLET	12.0	235.0 (APPROX)	
Meas. fr. water line? _{ms}			
SO. OUTLET	11.0	236.0 (APPROX)	
B.M. ON P. HOUSE FLOOR	3.29	245.73 ✓ B.M.	
		245.73 ✓	
T ^{#2}	5.40	251.13 ✓	
No. 1 PUMP SUCTION	3.40	247.73 ✓	
No. 1 PUMP DISCH.	4.13	247.00 ✓	
No. 2 PUMP SUCT.	4.65	246.98 ✓	
" " DISCH.	4.83	246.30 ✓	
No. 3 SUCT.	4.69	246.44 ✓	
" " DISCH.	4.95	246.18 ✓	
T.P. #1	3.93	247.20 ✓ ON NOT #2 PUMP	
T ^{#3}	1.81	249.01 ✓	
	3.30	245.71 ✓ B.M.	

JAN. 22, 1942
A.M. WHITLOCK
P.S. BARKER
F.S. GREELY
CLOUDY & RAINY

3³

NAIL 3" BELOW TOP AT S.E. COR. PRESENT PAS.

ON TOP OF IRON INLET PIPE (6" INSIDE DIAM.)

ON TOP OF C.I.P. 8" OUTSIDE DIAM.

Reduced ~~ms~~

10" SHEEN OF FOOT VALVE FLOW W/TS

22" SUCTION FACE FLOW W/TS

CUT IN CONC. FLOOR 1' FROM W. WALL AT DOORWAY

(PUMP TO THE NORTH) NOT THE EMERGENCY UNIT.

(F.L. OF OUTLET DRAIN 230.4)
(THIS IS APPROX. AS THE)
(PIPE APPEARS TO SLANT)
(UPWARDS TOWARD THE RES.)
(BOTTOM OF RES. 234.9)

JAN 22, 1942

44

LEVELS ON GRID 10 MIL. GAL. RES.

	+	H. I	-	
J#1	10.30	260.47	250.17	B.I.T. CATY VARENA
TOP OF CURB AT 0+00			8.1	252.4 -
0+00 A. & ST.			9.2	251.3 -
21' E. OF 0+00 A.			9.7	250.8 -
TOP CURB 0+50 A.			6.7	253.8 -
0+50 A.			9.2	252.3 -
21' E. OF 0+50 A.			8.9	251.6 -
23' E. OF 0+50 A.			7.5	253.0 -
A 1+00 TOP CURB.			5.9	255.1 -
A 1+00 & ST.			7.4	253.1 -
20' E. A 1+00			8.2	252.3 -
22' E. A 1+00			6.3	254.2 -
1/2 S.W. ST. A 1+50			5.0	255.5 -
A 1+50			6.7	253.8 -
20' S. A 1+50			7.3	253.2 -
24' E. A 1+50			5.0	255.5 -
CURB A 2+00			4.0	256.5 -
A 2+00			5.4	255.1 -
22' E. A 2+00			6.7	253.8 -
26' E. A 2+00			4.8	255.7 -
CURB A 2+50			3.2	257.3 -
A 2+50			4.6	255.9 -
22' E. A 2+50			5.8	254.7 -
25' E. A 2+50			3.7	256.8 -

→ See p. 2 WCB

TOE BANK
 TOP BANK
 TOE BANK
 TOP BANK
 TOE
 TOP
 TOE
 TOP
 TOE
 TOP

RES. LEVELS CONT

STA	+	H.I	-	ELEV
-T #2		262.68 ✓		
20' E A5+50			5.5	257.2 -
23' " " "			4.2	258.5 -
CURB A6+00			4.0	258.7 -
A6+00			5.2	257.5 -
20' E " "			5.7	257.0 -
24' " " "			4.3	258.4 -
CUB A6+50			4.3	258.4 -
A6+50			5.5	257.2 -
20' E " "			6.2	256.5 -
22' " " "			4.5	258.2 -
CURB A7+00			4.6	258.1 -
A7+00			5.7	257.0 -
21' E " "			5.7	257.0 -
25' " " "			4.5	258.2 -
B7+00			6.5	256.2 -
B6+50			5.4	257.3 -
B6+00			4.2	258.5 -
7' E OF B6+00			5.0	257.7 -
B5+50			4.4	258.3 -
B5+25			5.8	256.9 -
B5+00			4.0	258.7 -
11' E OF A5+00			5.0	257.7 -
23' " " "			8.0	254.7 -
B4+50			3.4	259.3 -
10' E " "			4.6	258.1 -
18' " A+50			7.2	255.5 -

TOE				
TOP				
TOE				
TOP				
TOE				
TOP				
TOE				
TOP				
TOP OF SLIGHT BREAK				
DIP BOTTOM				
TOP OF PRONOUNCED BREAK				
TOE " " "				
TOP OF BREAK "				
TOE " "				

RES. LEVELS CONT.

STA	+	HI	-	ELEV
T#2		262.68 ✓		
B4+00			4.7	258.0 -
14' E OF B4+00			5.8	256.9 -
B3+50			5.7	257.0 -
9' E OF B3+50			6.3	256.4 -
19' 50" " " "			8.7	254.0 -
B3+00			6.6	256.1 -
10' E OF B3+00			7.3	255.4 -
20' " " "			9.6	253.1 -
B2+50			6.8	255.9 -
12' E. B2+50			7.0	255.7 -
21' " " "			9.9	252.8 -
B2+00			8.3	254.4 -
B1+50			8.8	253.9 -
26' E OF B1+50			10.5	252.2 -
37' " " "			13.3	249.4 -
B1+00			9.8	252.9 -
B0+50			10.8	251.9 -
B0+21			11.1	251.6 -
B0+18			13.2	249.5 -
B0+00			14.0	248.7 -
T.P#2			8.24	254.44 ✓
T#3	0.34	254.78 ✓		
C0+00			9.7	245.1 -
C0+93			9.1	245.7 -

TOP OF BREAK
" " "
TOP OF BREAK
TOP
TOE
TOP
TOE
TOP
TOE
TOP BANK
TOE

$\Delta = 80^\circ$
 $R = 63$
 $T = 52.86$
 $L = 81.96$
 27.7' per ft

8390996
63
 25172988
 50345976
 518632748

BC 0400
 ✓ 0+25 11°23'
 ✓ 0+50 22°46'
 0+75 34°09'

1.396263L
63
 41887902
 83775804
 879645942

PRC 0+87²⁶ 40°00'
 1400 9°31' 1412⁵ 1921
 1+25 29°11'
 1+38 ²²/_{10 69} 40°00'

1.396263L
26
 83775804
 41887902
 502654824

1+48 91
 1+73 91
 End
 $\Delta = 80^\circ$
 $R = 26'$
 $L = 50.26$
 $T = 30.21$

839.0996
26
 50345976
 25172988
 302075856

11
 683
 20
 83
 60
 23

9-50
 1940 36 47.7
 1780
 60
 580
 520
 20

7818.87
 APPROVED BY
 FORM 831

RES. LEVELS. CONT.

STA	+	H.I	-	PLEV
T#3		259.78	✓	
C0+50			5.6	249.2 -
C1+00			7.7	247.1 -
C1+50			6.7	248.1 -
C2+00			4.3	248.5 -
C2+50			5.4	249.4 -
C3+00			4.6	250.2 -
C3+50			3.9	250.1 -
C4+00			3.4	251.4 -
C4+50			2.9	251.9 -
C5+00			2.6	252.2 -
C5+50			2.4	252.4 -
C6+00			2.3	252.5 -
C6+50			2.0	252.8 -
C7+00			2.0	252.8 -
D7+00			5.8	249.0 -
D6+98			9.8	245.0 -
D6+92			9.8	245.0 -
D6+90			6.0	248.8 -
D6+50			4.9	249.9 -
D6+00			5.3	249.5 -
D5+50			5.9	248.9 -
D5+00			6.2	248.6 -
R 1+50			6.6	248.2 -
D4+00			7.1	247.7 -

JAN 22, 1992

WHITLOCK
BARNER St.
GREELEY

8

TOP OF DRAIN DITCH

IN BOTTOM SO. SIDE

IN BOTTOM NO SIDE

TOP NO. SIDE

RES. LEVELS. CONT.

STA	+	H.I	-	FLEV
T#3		254.78 ✓		
D.3+50			7.8	247.0 -
D 3+00			8.4	246.4 -
D 2+50			9.4	245.4 -
D 2+00			10.0	244.8 -
D 1+50			10.8	244.0 -
D 1+00			11.6	243.2 -
D 0+50			12.0	242.8 -
D 0+00			13.0	241.8 -
T.P#3			9.11	245.67 ✓
T#4	2.01	247.68		
E.0+00			10.6	237.1 -
E 0+50			9.0	236.7 -
E 1+00			9.0	236.7 -
E 1+50			7.1	240.6 -
E 2+00			6.3	241.4 -
E 2+50			5.7	240.0 -
E 3+00			5.1	240.6 -
E 3+50			4.3	243.4 -
E 4+00			3.8	241.9 -
E 4+50			3.3	244.4 -
E 5+00			2.6	245.1 -
E 5+50			1.9	245.8 -
E 6+00			1.0	246.6 -
E 6+50			1.8	245.9 -

JAN. 22. 1942.
 WHITLOCK. NOTES
 BARKER J. T.
 GREELEY ♀

9

RES. LEVELS. CONT.

STA	+	H.I	-	ELEV
T#4		247.68	✓	
E6+65		2.8		244.9 -
E6+66		4.7		243.0 -
E6+69		4.8		242.9 -
E6+70		2.3		245.4 -
E7+00		10.3		248.0 ✓
F 7+00		0.8		246.9 -
F 6+50		5.0		242.7 - L. LOW AREA
F 6+00		4.0		243.7 -
F 5+50		4.7		243.0 -
F 5+00		5.9		241.8 -
F 4+50		6.9		240.8 -
F 4+00		7.1		240.6 -
F 3+50		7.5		240.2 -
F 3+00		8.3		239.4 -
F 2+50		9.1		238.6 -
F 2+00		10.3		237.4 -
F 1+50		11.8		235.9 -
F 1+00		14.1		233.6 -
F 0+50		15.3		232.4 -
F 0+00		15.6		232.1 -
T.P#4		9.23		238.45 ✓
T#5	2.95	241.40	✓	
G 0+00		16.0		225.4 -
G 0+50		13.5		227.9 -

10

TOP OF DITCH No. SIDE

IN BOTTOM

" "

TOP

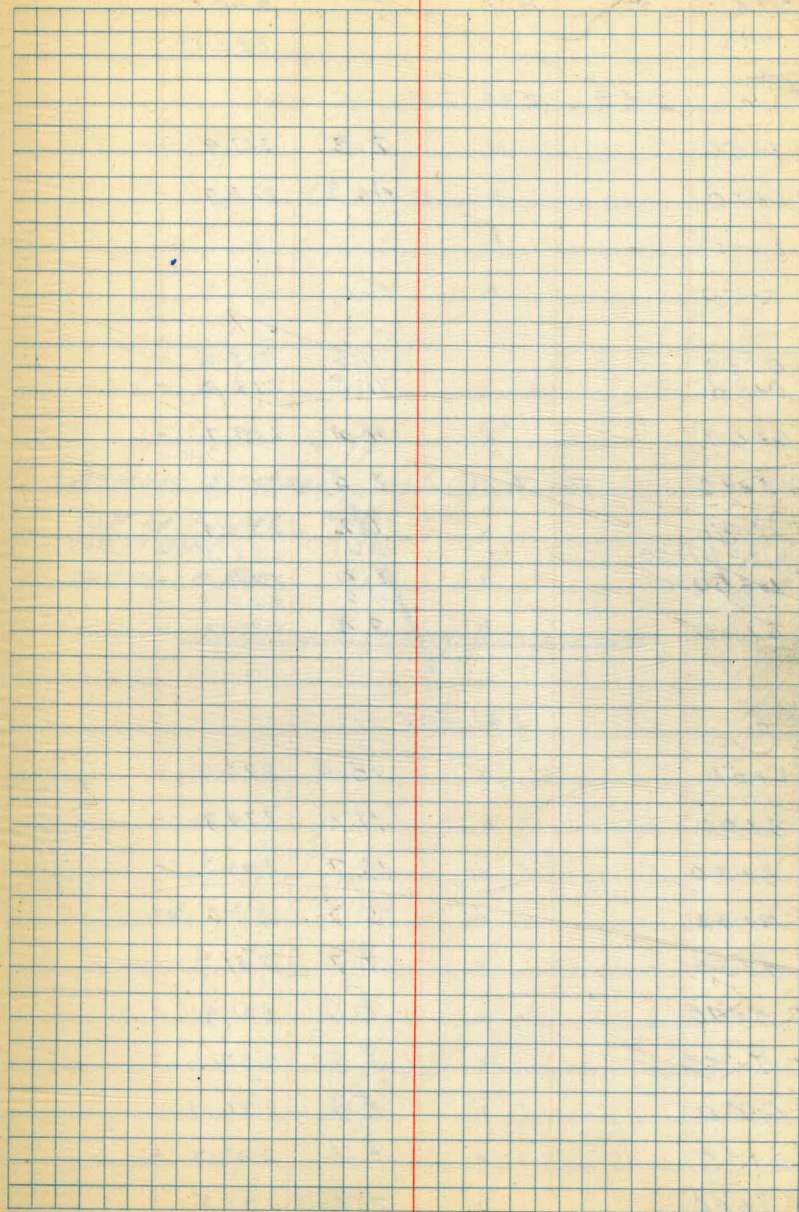
DITCH NOW FANNED OUT

RESERVOIR LEVELS CONT.

JAN 22, 1992

11 "

STA	+	H.I	-	ELEV
A#5		241.40 ✓		
G1400			13.0	227.4 -
G1450			11.5	229.9 -
G2400			8.4	233.0 -
G2450			5.5	235.9 -
G3400			5.1	236.3 -
G3450			4.6	236.8 -
G4400			4.6	236.8 -
G4450			4.0	237.4 -
G5400			2.9	238.5 -
G5450			1.6	239.8 -
G6400			1.4	240.0 -
G6450			0.0	241.4 -
G7400			+3.0,	244.4 ✓
H7400			+0.5	241.9 ✓
H6450			1.5	239.9 -
H6400			3.6	237.8 -
H5450			5.3	236.1 -
H5400			6.5	234.9 -
H4450			7.3	234.1 -
H4400			8.4	233.0 -
H3450			7.8	233.6 -
H3400			8.0	233.4 -
H2450			9.1	232.3 -
H2400			10.2	231.2 -
T.P#5			12.91	228.49 ✓



RES. LEVELS CONT.

JAN 22, 1942.

12

STA	T	H. I	-	ELEV
TP#5				228.49 ✓
T#6	1.63	230.12 ✓		
H1750	"	2.2		227.9 -
H1700	"	4.2		225.9 -
H1700	"			
H1700	"			
I0750		11.6		218.5 -
I0755		11.8		218.3 -
I0760	"	10.4		219.7 -
I0790	"	8.5		221.6 -
I1700	"	6.2		223.9 -
12' W OF I1750	"	6.6		228.5 -
8' W OF I1750	"	3.8		226.3 -
I1750	"	4.6		225.5 -
I2100	"	3.4		226.7 -
T#5		241.40 ✓		
I2750	"	13.4		228.0 -
I3700	"	11.5		229.9 -
I3750	"	10.7		230.7 -
I4700	"	10.7		230.7 ✓
I4750	"	9.7		231.7 -
I5700	"	9.6		231.8 -
I5750	"	8.3		233.1 -
I6700	"	5.3		236.1 -
I6750	"	3.7		237.7 -
I7700	"	2.6		238.8 -

BOTTOM OF BREAK RUNNING N. + S.
 TOP OF A BREAK N. + S.
 TOP OF BANK
 BOTTOM OR TOE

JAN 23, 1942

13

STA	HI	ELEV
T#5	241.90 ✓	
J 7+00	" 5.5	235.9 -
J 6+50	" 6.4	235.0 -
J 6+00	" 7.9	233.5 -
J 5+50	" 9.0	232.4 -
J 5+00	" 11.7	229.7 -
J 4+50	" 13.6	227.8 -
J 4+00	" 14.4	227.0 -
T#6	230.12 ✓	
J 3+50	" 4.2	225.9 -
J 3+00	" 5.8	224.3 -
J 2+50	" 7.6	222.5 -
J 2+00	" 9.5	220.6 -
J 1+50	" 11.2	218.9 -
26' WEST OF J 1+50	" 6.7	223.4 -
J 1+00	" 13.8	216.3 -
38' W. OF J 1+00	" 7.9	222.2 -
26' W. OF J		
T.P#6	11.42	218.70 ✓
T#7	3.18	221.88 ✓

BOTTOM SLOPE

TOP OF BREAK

TOP OF BREAK

SUPPLEMENTARY SHOTS.
RESERVOIR LEVELS

14¹⁴

STA	+	H.I	-	ELEV
T#7		221.88 ✓		
24'E OF I0+50	"	6.0	215.9 -	
29' " " "	"	6.6	215.3 -	
J0+50	"	9.7	212.2 -	
J0+00	"	10.6	211.3 -	
I0+00	"	4.7	217.2 -	
H0+00	"	1.4	220.5 -	
H0+03	"	0.5	221.4 -	
T.P#7		0.41	221.47 ✓	
T#8	12.07	233.54 ✓		
18'E OF F1+00	"	1.5	232.0 -	
H. 0+50	"	10.0	223.5 -	
CENT OF "E" LINE AT 0+75 "	"	1.5	232.0 -	
T.P#8		0.10	233.44 ✓	
T#9	12.79	246.18 ✓		
0+20 "E" LINE	"	7.9	238.3 -	
G4+25	"	8.6	237.6 -	
30'E OF H5+50	"	12.4	233.8 -	
J4+65			225.4 Hard Level	
G2+25	246.18	11.0	235.2 -	
20' OF C0+70	"	1.0	245.2 -	
T.P#9		0.09	246.09	
T#10	10.84	256.93 ✓		

TOP OF BREAK
BOTTOM.

SLIGHT BREAK TOP.

DEPRESSION

LEVELS ON RES.

JAN 22, 1942

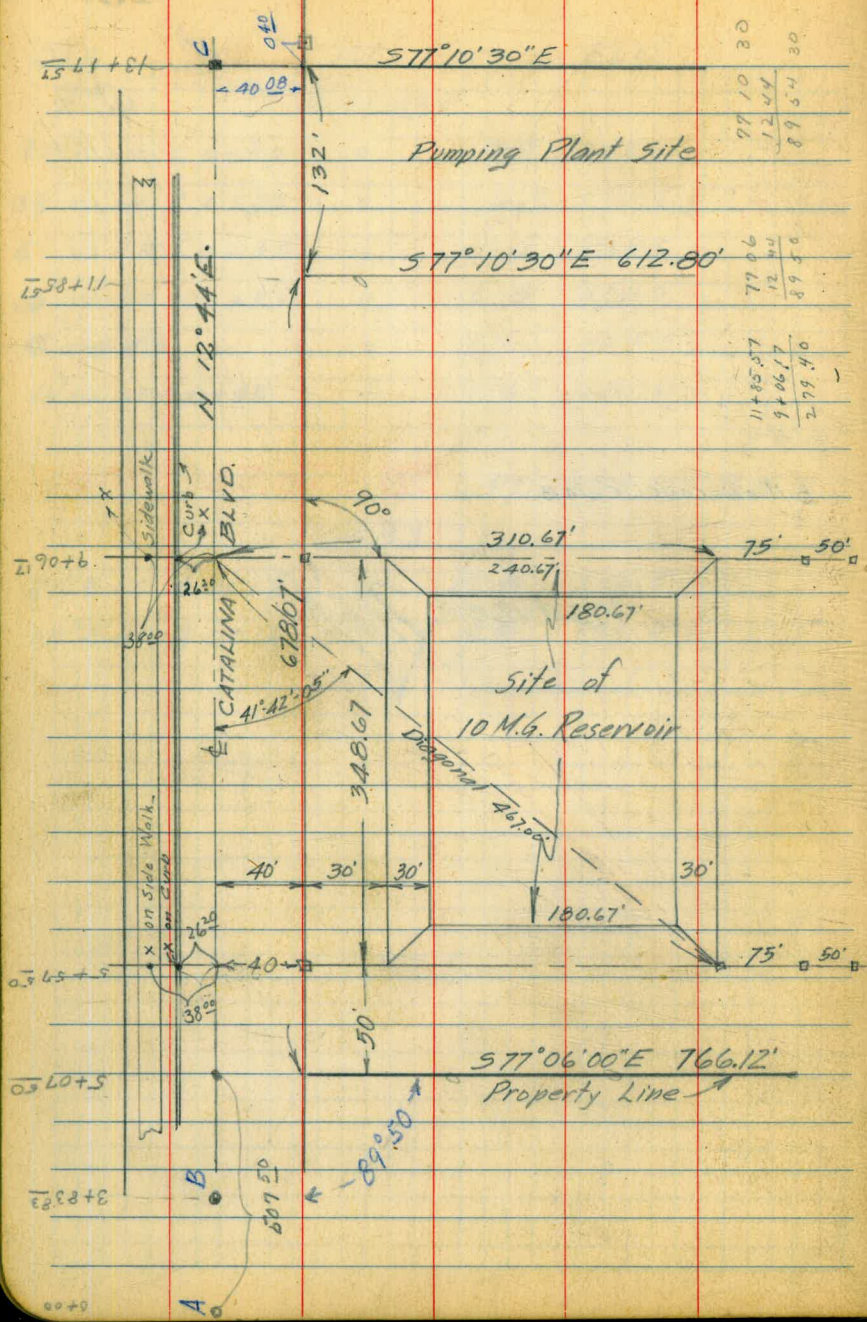
15 6

STA	+	HI	-	ELEV
T#10		256.93 ✓		
20' W OF C0+30		"	8.9	248.0 -
23' W OF C0+30		"	6.3	250.6 -
5' W OF C0+35		"	11.3	245.6 -
15' W OF C0+35		"	6.8	250.1 -
C0+40		"	11.2	245.7 -
10' W OF C0+40		"	7.4	249.5 -
			✓ 0.01	
		6.77	250.16	B.M.
		256.93		
25' E OF A0+12		✓ 6.4	250.5	-
25' E OF A0+16		✓ 4.4	252.5	-

B.M. on conc. CURB.

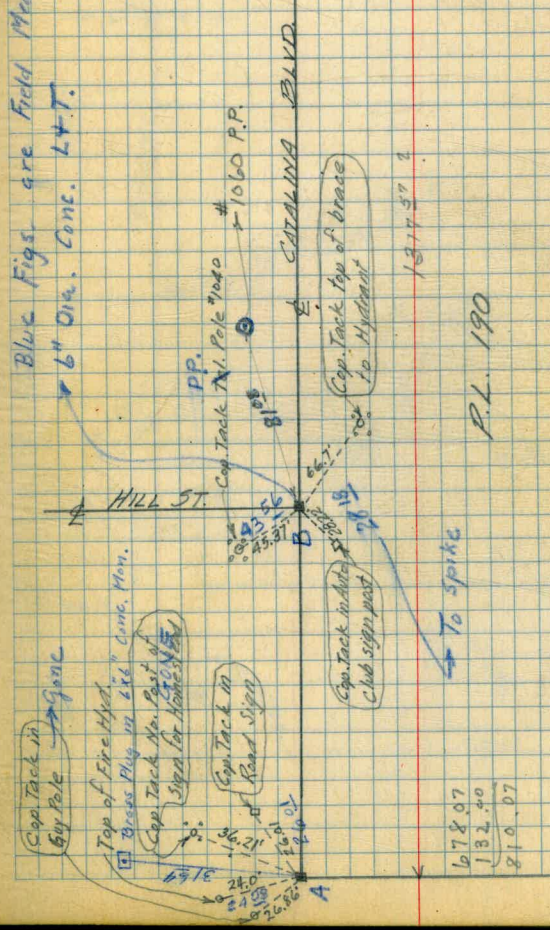
SB 250.82 WCB

Reduced *[Signature]*



97.10	30
12.44	
89.54	30
1185.57	77.06
9406.17	12.44
279.40	89.54

Blue Figs are Field Meas. Feb'y, 1942.
 6" Dia. Conc. L+T.

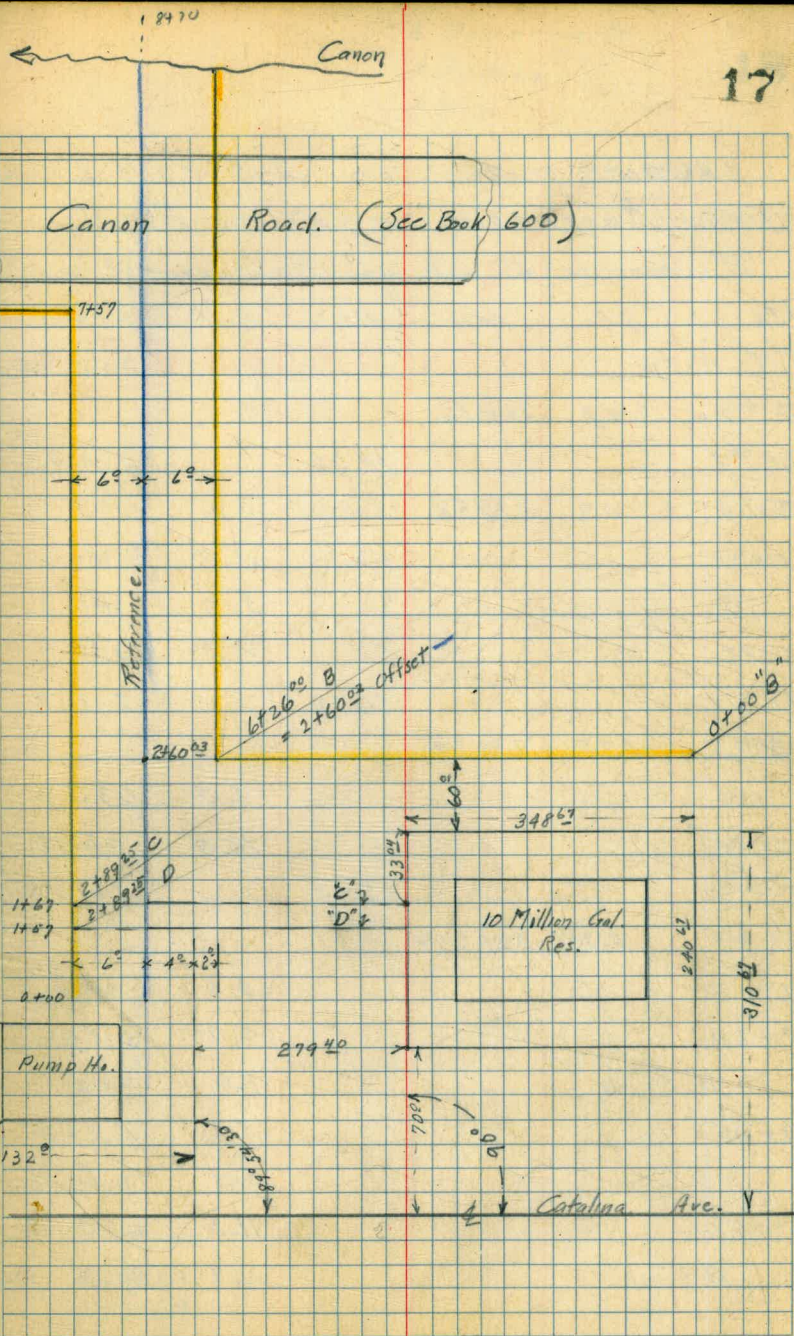


678.07
132.40
810.07

1317.57
810.07
507.50

557.50
583.01
173.67
906.17
557.19
549.67
284.67
60
344.67

Ties to Concrete Monuments taken from City Engineer's Field Book 15, Page 22.



* Messersmith
& Gomez
2/9/42

18

Levels notes on A-B-C-D Lines
From Reservoir on Catalina Blvd.

"B" Line is 61.50 of Reference Line

Sta	B.S.	Hi.	F.S.	Red	Elev.
B.M. city					250.17
A#1	3.99	254.16			
T.P.#1			10.26		243.90
A#2	0.62	244.52			
0+00				0.2	244.3
750				3.3	241.2
1+00				7.7	236.8
T.P.#2			11.02		233.50
A#3	0.39	233.89			
1+50				3.0	230.89
2+00				10.0	223.9
T.P.#3			12.31		221.58
A#4	0.14	221.72			
2+50				2.0	219.7
2+60				3.1	218.62
" B. Line				1.4	220.3
3+00				5.7	216.0
" B. Line				5.5	216.2
3+50				11.5	210.2
" B. Line				11.7	210.0

5.14

33.59

BM 250.17

→ SB 250.82 WCB

250.17
5.14
255.31
33.59
221.72

Sta	P.S.	H.	FS.	Rod	Elev.
		221.72 ✓			
T.P.#4			11.56		210.16
π#5	0.40	210.56			
4+00				5.5	
" B. Line				5.9	204.7
4+50				10.0	
" B. Line				10.2	200.4
T.P.#5			12.77		197.79
π#6	0.76	198.55			
5+00				2.8	195.8
" B. Line				2.9	195.7
5+50				9.1	
" B. Line				9.1	189.5
T.P.#6			12.35		186.20
π#7	0.73	186.93			
6+00				1.7	
" B. Line				2.3	184.6
6+19				4.1	182.9
" B. Line				4.4	182.5
6+50				11.6	
" B. Line				12.5	174.4
T.P.#7			12.66		174.27
π#8	0.99	175.26 ✓			
7+00				12.6	
" B. Line				12.4	162.9
	2.98		49.34		

221.72
2.88
<hr/> 224.60
49.34
<hr/> 175.26

Sta.	BS	Hi.	F.S.	Red	Elev.
		175.26 ✓			
T.P.#8			12.62		162.64
#9	0.82	163.46			
7+50		West edge of Road	6.9		156.6
"		B. Line	6.5		159.0
7+89		East edge of Road	6.4		
"		B. Line	6.0		159.5
8+00			12.6		
"		B. Line	12.5		151.0
T.P.#9			12.61		150.85
#10	4.78	155.63 ✓			
8+07		Top edge of Ditch	6.0		
"		B. Line	6.1		149.5
8+09		Bottom of Ditch	8.3		
"		B. Line	8.1		149.5
8+13		Top edge of Ditch	5.7		
"		B. Line	5.7		149.9
8+26			4.3		
"		B. Line	4.2		151.4
8+40		Bottom of Ditch	8.6		
"		B. Line	8.6		149.0
8+55			5.1		
"		B. Line	5.1		150.5
8+70		end of line			158.76
"		B. Line			158.86
	5.60				
		25.23			

175.26
5.60
180.86
25.23
155.63

Sta.	B.S.	H.I.	F.S.	Red.	Elev.
"B." Line					
T.P.#2					233.50
A#1	4.36	237.86			
0+00	"		0.0		237.9
+50	"		2.1		235.8
1+00	"		3.5		234.4
+50	"		5.0		232.9
2+00	"		5.2		232.7
+50	"		6.1		231.8
3+00	"		5.6		232.3
+50	"		6.4		231.5
4+00	"		8.2		229.7
+50	"		7.8		230.1
5+00	"		10.4		227.5
+50	"		14.8		223.1
6+00	"		16.9		221.0
6+32	"	= 2+60 ^{0.3} Reference Line.			218.62

"C" Line					
Sta.	B.S.	H.I.	F.S.	Red.	Elev.
0+00	"	237.86	0.1		237.76
+50	"		1.5		236.4
1+00	"		4.3		233.6
+50	"		6.6		231.26
2+00	"		8.0		229.9
+50	"		9.7		228.2

233.50
+36
232.86

Sta.	BS.	Hi.	FS.	Rod	Elev.
		232.86			
2+83 ²⁵	"C" Line		9.7		228.11
	"D" Line	232.86			
0+00	"D" Line		0.0		232.86
+50	"		1.0		236.86
1+00	"		3.0		234.86
+50	"		5.4		232.46
2+00	"		7.3		230.55
+50	"		8.7		229.16
2+83 ²⁵	"		8.0		229.86
T.P. #2	checking on 4.36				233.50
T.P. #2					233.50
+	4.10	232.60	To check: —		
1+50	"C" Line		6.3		231.30
1+50	"D" Line		5.2		232.40
1+50	Reference Line		6.7		230.90
T.P. #2	checking on 4.10				233.50

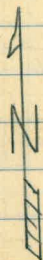
284.68

232.86
4.36
233.50

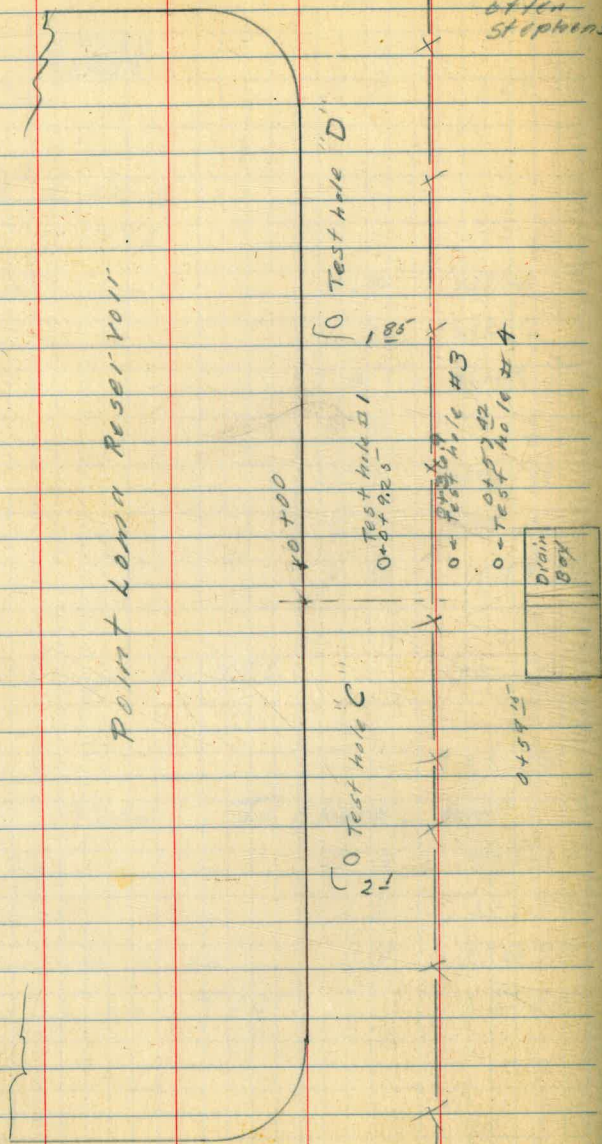
Sketch of Sta. Around
Point Loma Reservoir.

8-9-41

Byler
King
Allen
Stephens

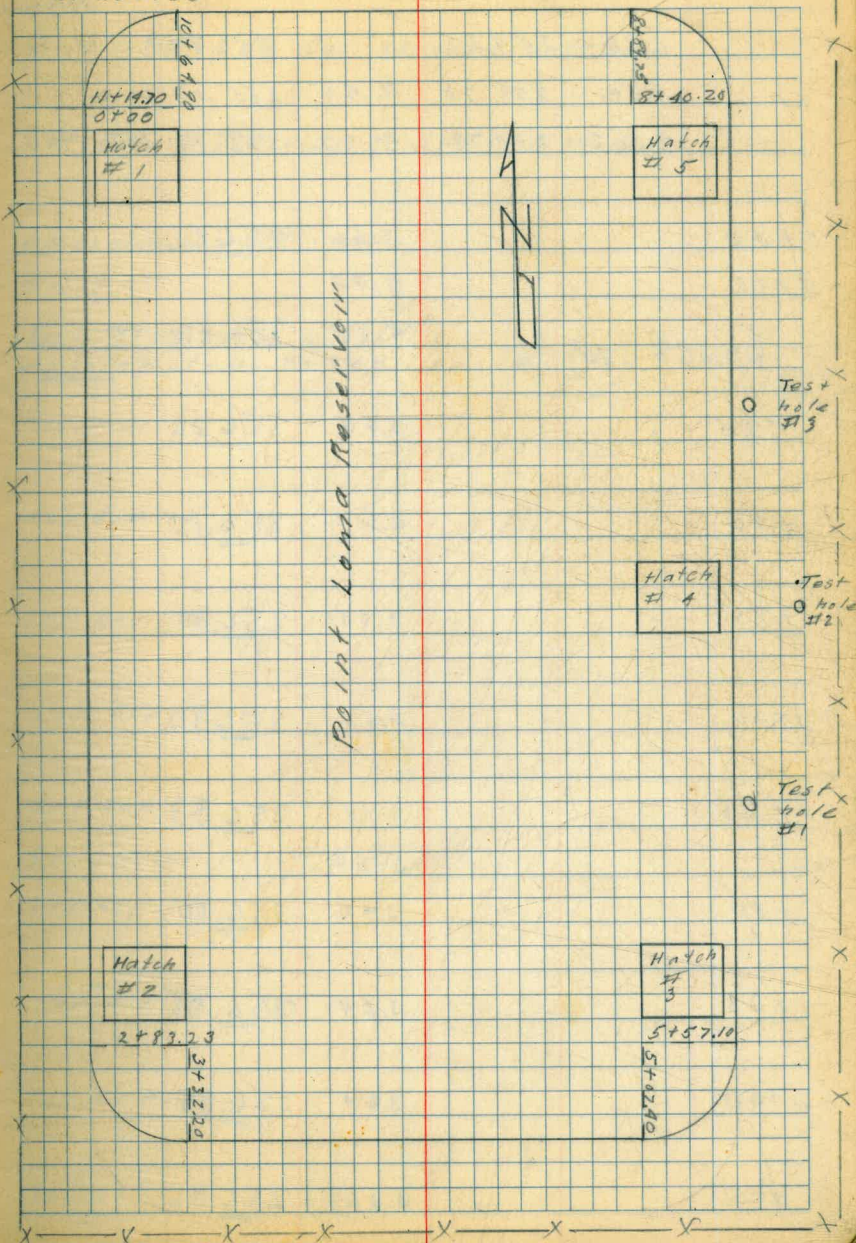


Point Loma Reservoir



23

o B.M. $\frac{1}{2}$ " I. Pin set flush
El. 256.50



LEVELS AROUND POINT
LOMA RESERVOIR

8-7-94

Byler
King
Otten
Stephens.

	6.76	257.58		250.82	✓
	4.59	259.72	2.45	255.13	
	3.22	259.72	3.22	256.50	
0+00			3.66	256.06	
0+00			4.98		
			4.79	254.93	—
			7.9		
+25			3.66	256.06	
+50			3.62	256.10	
+75			3.63	256.09	
1+00			3.62	256.10	
+25			3.69	256.03	
			5.65		
+50			3.62	256.10	
+75			3.64	256.08	
2+00			3.64	256.08	
+25			3.66	256.06	

Note - FOR STA. SEE PAGE 23

24

B.M. B.P. S.W. Cor. Verona & Catalina.

Set B.M. $\frac{1}{2}$ " I.P. flush & S.S. of N.W. fence Cor.

on coping around res.

ON P.D.V.

First stop inside patch #1
+1.13 TOP STOP TO TOP COPING (wall 256.06)

Top coping.

Top coping.

Top coping.

Top coping.

Top coping.

In gutter midway W. side

Top coping.

Top coping.

Top coping.

Top coping.

		² 259.72		
2+50			3.65	256.07 -
+75			3.65	256.07 -
+83 ²³			4.91	
+83 ²³			3.66	256.06 -
			5.69	
3+00			3.60	256.12 -
+25			3.63	256.09 -
TP	2.17	² 259.71	2.18	² 257.54
			4.66	255.05 -
3+32 ²⁰			3.60	256.11 -
3+32 ²⁰			4.86	
			5.66	
+50			3.64	256.07 -
+75			3.58	256.13 -
4+00			3.60	256.11 -
			5.90	
+25			3.59	256.12 -

TOP COPING

TOP COPING

ON PAV.

TOP COPING

IN GUTTER OPP.

TOP COPING

TOP COPING

FIRST STEP INSIDE HUTCH #2

+ 110 TOP STEP TO TOP COPING

Wall 256.05

ON PAV.

IN GUTTER AT S. WALL CORN.

TOP COPING

TOP COPING

TOP COPING

IN GUTTER MIDWAY S. END ON GRATE

TOP COPING

	² 3 59.71		
4+50		3.61	256.10 -
+75		3.61	256.10 -
5+00		3.62	256.09 -
+07 ¹⁰		3.61	256.10 -
		4.85	
+25		3.59	256.12 -
		5.45	
+50		3.59	256.12 -
+57 ¹⁰		3.59	256.12 -
+57 ¹⁰		4.94	
		4.55	255.16 —
+75		3.67	256.04 -
6+00		3.68	256.03 -
+25		3.65	256.06 -
		4.48	255.23 ✓ -

Top coping

Top coping

Top coping

Top coping

on Pak.

Top coping

in gutter S.E. Cor.

Top coping

Top coping

on Pak.

on Top step inside Hatch #3

+0.90 From top step to top of coping (wall 256.06)

Top coping

Top coping

Top coping

Test hole # C (top)

2
359.71

6+50	3.62	256.09 -
+75	3.65	256.06 -
7+00	3.71	256.00 -
	4.63	255.08 ✓ -
	4.66	255.05 -
	6.00	
	5.04	
+25	3.69	256.02 -
+50	3.69	256.02 -
	4.50	255.22 ¹ -
+75	3.69	256.02 -
8+00	3.69	256.02 -
+25	3.67	256.04 -
	4.56	255.15 -

Probably in error
WCB

27

Top Coping

Top Coping

Top Coping

Top Test Hole #1

Top Step Inside Hatch #4 (Wall 256.01)
+ 0.96 from Top of Step to Top of Coping

Gutter Midway E side on Grate

Pav. " " "

Top Coping

Top Coping

Test Hole # D (Top)

Top Coping

Top Coping

Top Coping

Top Step inside hatch #5

+ 1.18 Top Step to Top Coping (Wall 256.25)?

2
359.71

8+10.20 3.65 256.06 -

8+10.20 4.96

+50 3.69 256.02 -

5.59

+75 3.69 256.02 -

TP 2.39 259.87 2.25 257.48

8+89.75 3.86 256.01 -

+89.75 5.19

9+00 3.85 256.02 -

+25 3.85 256.02 -

+50 3.84 256.03 -

+75 3.84 256.03 -

6.12

10+00 3.82 256.05 -

28

Top Coping
on Pav.

Top Coping

In Gutter N.E. Cor.

Top Coping

Top Coping
on Pav.

Top Coping

Top Coping

Top Coping

Top Coping

In Gutter Midway N.E.W. on Grate

Top Coping

259.87

10425 3.79 256.08 -

+50 3.76 256.11 -

+6428 3.80 256.07 -

+6420 5.09

+75 3.80 256.07 -

5.95

11400 3.81 256.06 -

3.38 256.49

3.30 259.80 256.50

8.97 250.83

Top Coping

Top Coping

Top Coping
on Pav.

Top Coping

in gutter N.W. Cor.

Top Coping

check on B.M. I.P. on Fl. 256.50

B.M. I.P. on

check on B.M. B.P. S.W. Cor. Veranda of Calalira
Fl. 250.82

El. of Water Point Lonia Res.
1 N Relation to Gauge

8-7-44

Byler
King
Ottens
Stephens

3.15 259.65 256.50

8.02 251.63

17'-4 $\frac{1}{8}$ "

3.37 255.00

30

B.M.

El. Taken on Sur. Water

Reading of Res. Gauge

Distance from Sur. of Water
to Top of outlet N. End.

} Simultaneous
Readings.

Pt. Loma Res.

El. of Test holes & Drain Box

	2.28	257.36 ✓		255.08 ✓
0+362			9.48	247.88 -
TP	2.00	246.89 ✓	12.47	244.89 ✓
0+57 ¹²			7.69	239.20 -
			8.85	238.04
			18.84	228.05
TP	11.42	256.31 ✓	2.00	244.89 ✓
			1.23	255.08 ✓

Byler 8-7-44
King
Otten
Stephens

31

(Top test hole #1 W.B.)

TOP PIPE Test hole #3

TOP PIPE Test hole #4

TOP of drain Box SW. Cor.

Floor of drain Box SW. Cor.

Sounding 3 Along 16 Harbor Drive PL.
ACROSS NAVY SLough

	0.28	15.54		15.260
TP	1.84	6.24	11.14	4.40
			12.03	- 5.79

Stadia
Sound NO. Stadia Tide Gauge Depth El.

Transit Sta. for Stadia Shots. At Sta. 129+29

#1	34	1.1	4.4	
#2	60	1.1	11.0	
#3	104	1.1	16.7	
#4	155	1.1	18.9	
#5	173	1.0	21.0	
#6	222	1.0	21.0	
#7	280	1.0	20.0	
#8	340	1.0	18.2	
#9	380	0.9	13.5	
#10	420	0.9	10.5	
#11	460	0.9	4.1	

9-27-44
BYLER ED T
King Sound
offen +
Stephens Oarsman

B.M. Nail So. End of Cap Bent #2

El. Surf. of Water Gauge 1.1

DEPTH
20' Left 20' Rt.

9.4	9.5
13.0	14.2
17.2	18.2
19.0	19.3
20.9	23.0
19.0	22.5
18.2	19.5
16.2	16.5
10.0	11.2

Levels to Establish B.M. Near
Sta. 130+65 Harbor Drive P.L.

0.28	15.54		15.260
2.95	7.35	11.14	4.40
		4.38	2.97

9-27-44
BYLER
KIPPA
O'NEAL
STEPHENS

33

B.M. Nail 50 End of Cap Bent #2

Set B.M. on CONC. Mon. 15' W of G.V. Chamber Sta. 130+65+

check elevations at Paint Loma Reservoir

B.M.	10.47	261.29		250.82	
TP	3.12	259.62	4.80	256.49	Rec. 256.50
			4.70	254.92	
TP	5.45	260.05	5.02	254.60	
			4.98	255.07	
			6.24	253.81	
4+00			3.92	256.13	
5+00			3.96	256.09	
			5.00		
TP	4.57	259.24	5.38	254.67	
			4.04		
			4.08		
6+00			3.20	256.04	

July 17, 1945

Soper
King
Stephens

34

B.P.S.W. Cor. Verona + Catalina

CK on B.M. - Iron pin 5' South of N.W. fence corner

Center, East face, of top step under Hatch #1

Center - East face, of top step under Hatch #2

On painted arrow, on grate, South end of Res.

Top of coping wall - Note: level rod can not be held
plumb for readings on the
coping wall

Top of coping wall

On 3/4" Rein. steel rod 20' South 4+45

On 3/4" Rein. Steel rod. 20' S.E. 5+32

Center, West face of top step under Hatch #3

Top of coping wall

259.24

4.12

4.00

7+00

3.23 256.01

11.35

TP

1.83 249.72 11.35 247.89

10.52

11.66

TP

11.29 259.18 1.83 247.89

4.10

4.14

5.46

3.97

4.38

35

On $\frac{3}{4}$ " Rein. steel rod - 17' East of test hole "C"

Top of pipe - test hole "C"

Top of coping wall

Top of pipe test hole #3

Top of pipe - test hole #4

Top of drain box - S.W. Cor

Top of pipe test hole #1

Center, West face of top step under Hatch #4

On painted arrow, on grate East side of Res.

Top of pipe test hole "D"

On $\frac{3}{4}$ " Rein. steel rod - 18' East of test hole "D"

259.18

8+00 3.12 256.06

4.23 254.95

4.18 255.00

IP 4.67 259.29 4.56 254.62

9+00 3.35 255.94

4.35

10+00 3.22 256.07

5.52 253.77

ck on B.M. 2.80 256.49

Top of coping wall

Center, West face of top step under Hatch #5

On $\frac{3}{4}$ " Rein. steel rod 20' N.E. 8+65

Top of coping wall - Note: Water standing on oil road here
Obvious settlement in road.

On $\frac{3}{4}$ " Rein. steel rod, 20 North 9+52

Top of coping wall.

On painted arrow, on grate, North end of Res.

Check Elevations Pt Loma Reservoir

	3.35	259.84		256.49
			4.93	254.91
			4.76	255.08
T.P.	4.82	259.64	5.02	254.82
			5.83	253.81
4+00			3.51	256.13
5+00			4.60	255.04
5+00			3.55	256.09
			4.4 ³ 4	255.21
			4.48	255.16
T.P.	4.38	259.59	4.43	255.21
6+00			3.55	256.04
			4.47	255.12

BM. Iron pin
5' So. N.W. Corner

Sept 20. 1946

Bliss Notes

Cloudy + Cool

37

King T

Davis Rod.

Center East face of top step under Hatch #1

Center East face of Top step under Hatch #2

on Painted Arrow on Grate South End Reservoir

Top of Coping Wall

Top 3/4" iron pin or rod 20' South of 4+45

Top of Coping Wall

Top of 3/4" steel rod 20' S.E. 5+32

Center W. Face of Top Step under Hatch #3

Top Coping Wall

3/4" Steel Reinforcing rod 17' East of Test Hole "C"

			4:35	255.24
T+00			3.61	255.98
			4:56	255.03
			11:70 ⁶⁹	247.90
T.P.	0.60	248.49	11:70	247.89
			9.30	239.19
			10.42	238.07
T.P.	11.61	259.50	0.60	247.89
			4:43	255.07
			5:8 ⁶	253.70
			4:30	255.20
			4:72	254.78
8+00			3.45	256.05

Top of Pipe Test Hole C
Top of Coping wall
Center West Face Top Step under Hatch #4
Top of Pipe Test Hole # 3
Top of Pipe Test Hole # 4
Top of Drain Box SW Corner
Top of Pipe Test Hole # 1
Painted arrow on Grate East Side of Reservoir
Top of Pipe Test Hole "D"
on 3/4" Steel Rod 18' East Test Hole D
Top of Coping wall

π
259.50

4.57 254.93

4.51 254.99

TP. 4.56 259.55 4.51 254.99

9+00 3.68⁴ 255.91

4.62 254.93

10+00 3.50 256.05

5.80 253.75

Check BM 3.07 256.48 0.01 Error

39

Center West face Top Step Under Hatch #5

on 3/4" Steel Rod 20' NE 8+6.5

Top Coping Wall

on 3/4" Reinforcing Rod 20' N 9+5.2

Top of Coping Wall

Painted Arrow on Grate 20+- N 10+00 on N.E. rd of Reservoir

3/4" iron pin 5' So. of N.W. Corner

Bliss cloudy
+ cool
Leongad
Fah
8/24/47

Check Elev. Pihlona Reservoir

BM	3.04	259.53		256.49	Iron Pin 5" So N.W. Fence Cor.
			4.62	254.91	
TP	4.96	259.71	4.78	254.75	
TP. ⁰² step	4.76	259.83	4.64	255.07	
4+00			3.70	256.13	
			6.03	253.80	
4+45			4.78	255.05	
5+00			3.74	256.09	
1+35			4.64	255.19	
			4.68	255.15	
TP.	4.45	259.64	4.64	255.10	
			4.40	255.24	

40

East face

Center, Top Step under Hatch #1

Center + East face Top Step under Hatch #2

Top Coping wall at 4+00

Painted arrow on Gate opp 4+00 ⁺⁻ S. End Reservoir

Top iron pin 3/4" 20' So of 4+45

Top Coping wall

Top 3/4" iron pin 20' South 5+35

Center + W. face Top Step under Hatch #3

on steel pin opp. 5+35

Top Pipe Test Hole C.

Note Gate should have
been taken first

6+00 3.60 256.04

4.525 255.115

7+00 3.64 256.00

4.60 255.04

4.55 255.09

5.925 253.715

TP 0.53 255.62 4.55 255.03

7.71 247.91

TP 0.58 243.89 12.31 243.31

4.6³~~7~~ 239.20

5.80 238.09

4.435 255.205

4.85 254.79

Top Coping wall

Top Iron pin 17-7 East Test Hole "C"

Top Coping wall

Center, East face + Top Step under Hatch #4

Test Hole #1

Painted Arrow Top Grate 18 ft 7+10+ -

Top Pipe Test Hole #3

Top pipe Test Hole #4. Cap off

Top Drain Box SW Corner

Test Hole "D"

Iron pin 18+ East of Test Hole D

	+	π	-	Elev
		259.64		
8+00			3.59	256.05
			4.715	254.925
	4.64	259.62	4.66	254.98
9+00			3.70	255.92
			4.68	254.94
10+00			3.545	256.075
			5.85	253.77
check Starting B.M.			3.14	256.48
				256.49
				0.01 error

Top Coping Wall

Top West Face of step under Hatch #5

Top steel pin 20' NE. 9+65

Top Coping wall

3/4" Steel pin 20' N 9+52

Top Coping wall

Pointed arrow on Grate 20+ - N 10+00

CHECK LEVELS AROUND
PT LOMA RESERVOIR

BEATTY Mar. 26 1952
Powell
Berger #

43

BM	3.28	259.77		256.49
			4.86	254.91
			5.50	254.27
			4.69	255.08
			5.35	254.42
P	2.08	259.59	2.26	257.51
CKIP			3.80	253.79 = 253.80
4+00			3.44	256.15
5+00			3.48	256.11
			4.41	255.18
			5.06	254.53
6+00			3.53	256.06
			4.32	255.27
7+00			3.58	256.01
			4.55	255.04
			5.20	254.39
			4.49	255.10
CKIP			5.85	253.74 = 253.715
			4.36	255.23
8+00			3.52	256.07
			4.65	254.94
			5.30	254.29
P	4.61	259.72	4.48	255.11
CKIP			4.73	254.99

Iron Pin 5' 30 NW Cor Fence	
Top Step Hatch #1	
Top of 2 nd Step Hatch #1	
Top Step Hatch #2	
Top of 2 nd Step Hatch #2	
Painted arrow on Rim of drain	4+00±
on Coping wall	
on Coping wall	
Top Step Hatch #3 (painted)	
Top 2 nd Step " "	
on Coping wall	
Top of 2" I.P. Test Hole "C"	
on Coping wall	
Top Step Hatch #4 (painted)	
Top 2 nd Step " "	
Top 2" I.P. Test Hole #3	
on painted arrow on Rim of Drain	
Top 2" I.P. TEST HOLE D	
on Coping wall	
Top Step Hatch #5 painted	
Top 2 nd Step " "	
Top Iron pin near fence	8+65

CHECK LEVELS AROUND
PT. LOMA RESERVOIR

259.72

9+00	3.81	255.91
	4.76	254.96
10+00	3.63	256.09
	5.94	253.78
CK BM	3.23	256.49

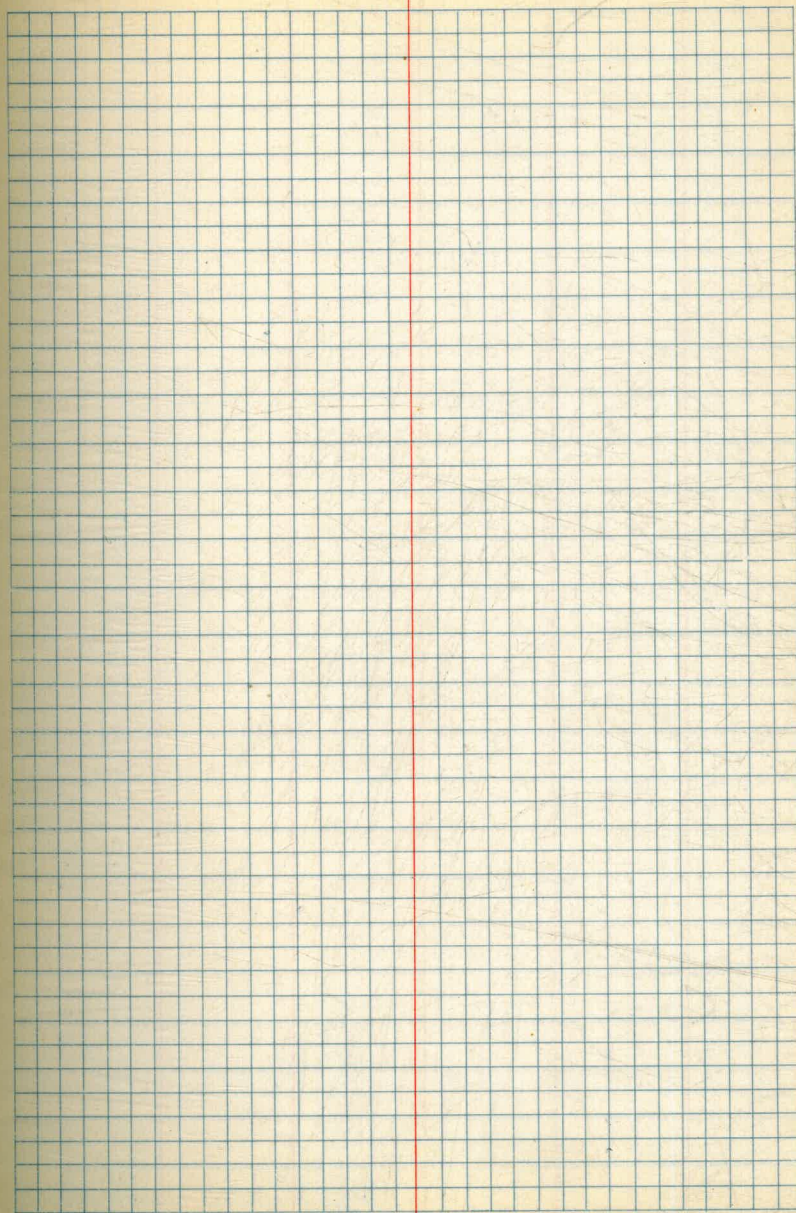
Mar. 26, 1952

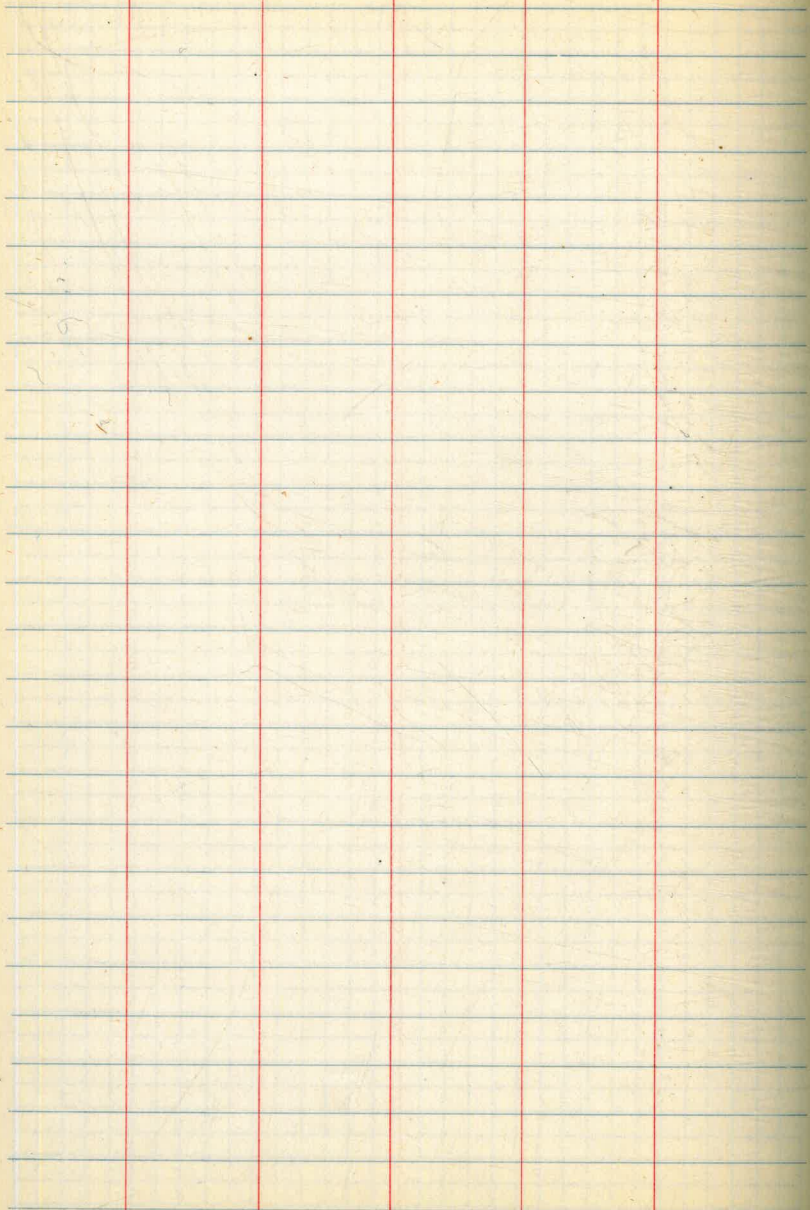
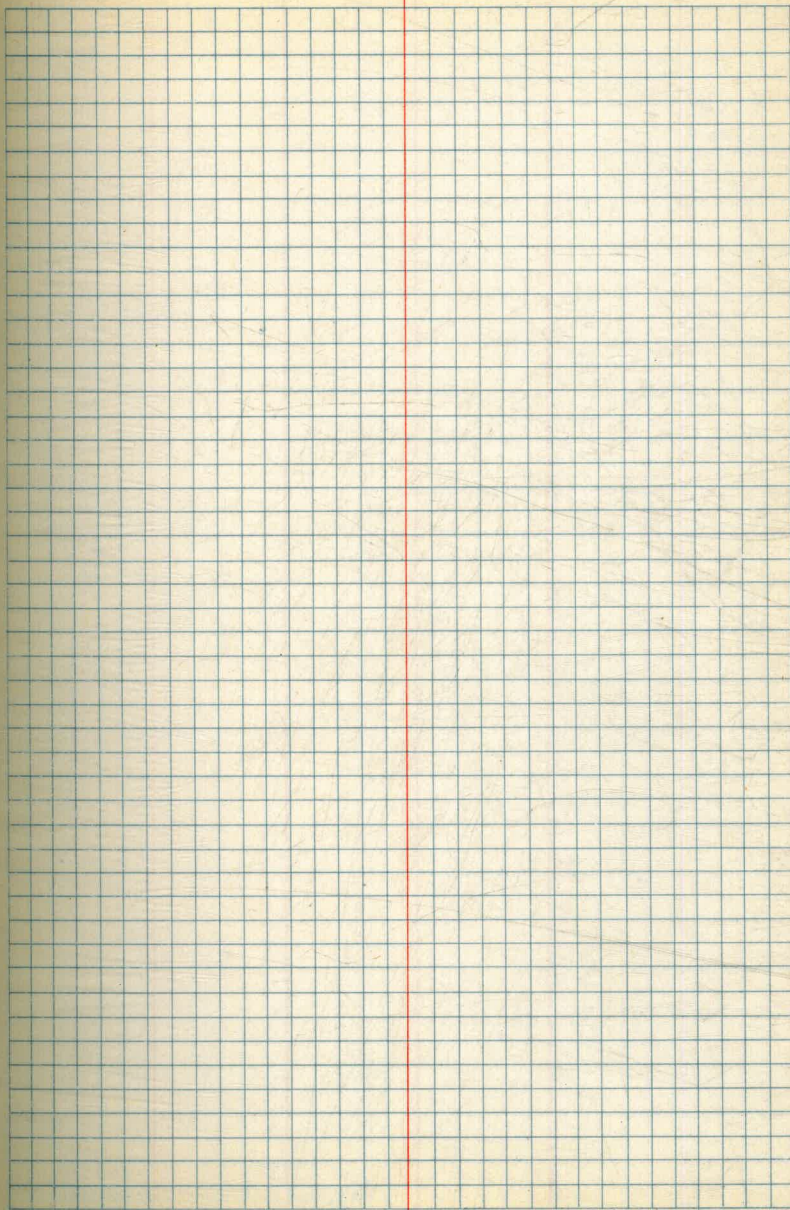
44

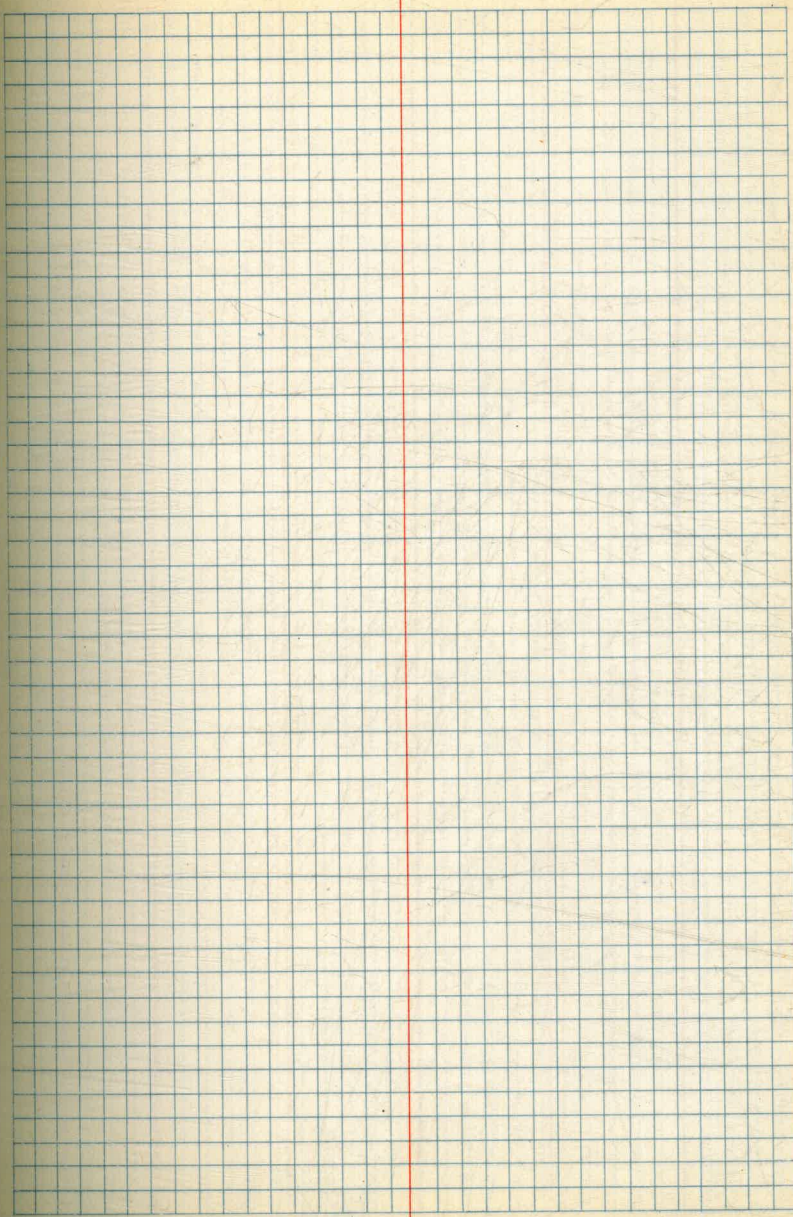
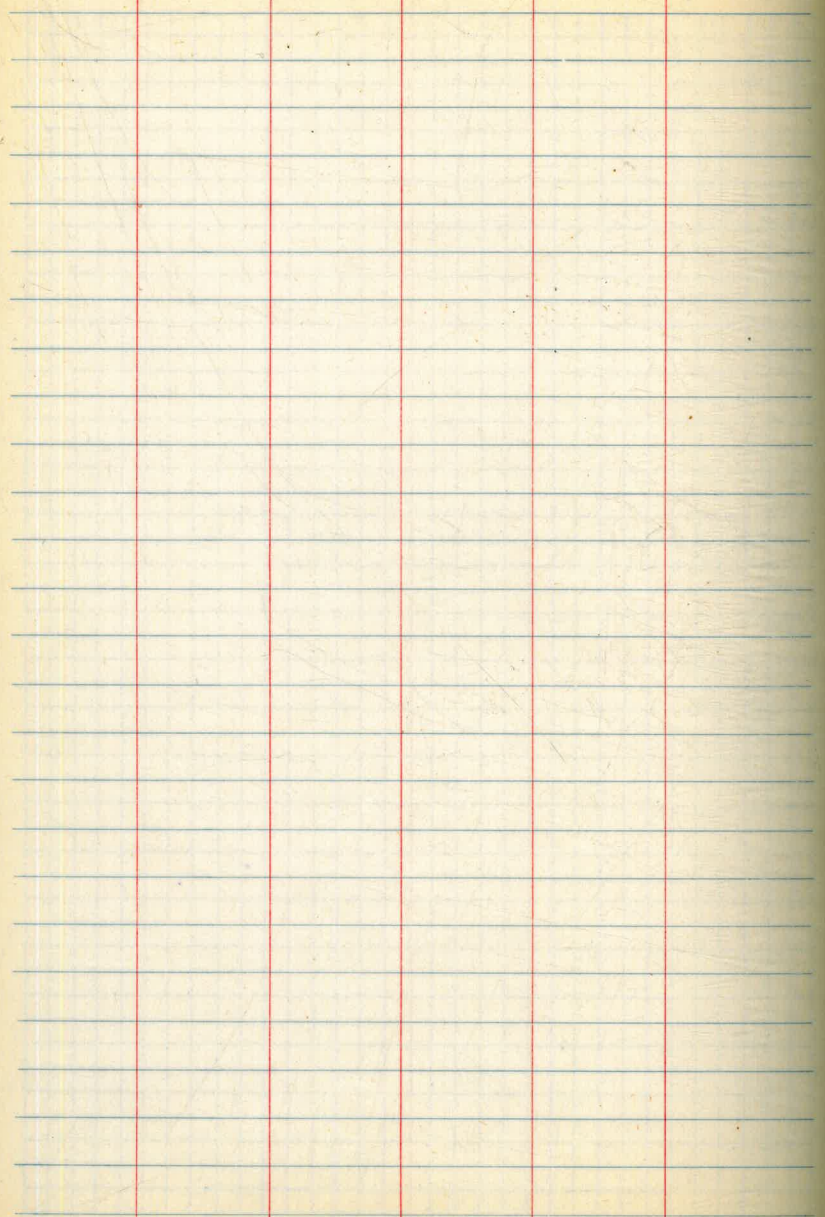
on coping wall
Top 3/4" I.P.N. 9+52 near fence
on coping wall
painted arrow on grate 10+
Iron pin 5' So NW Cor fence

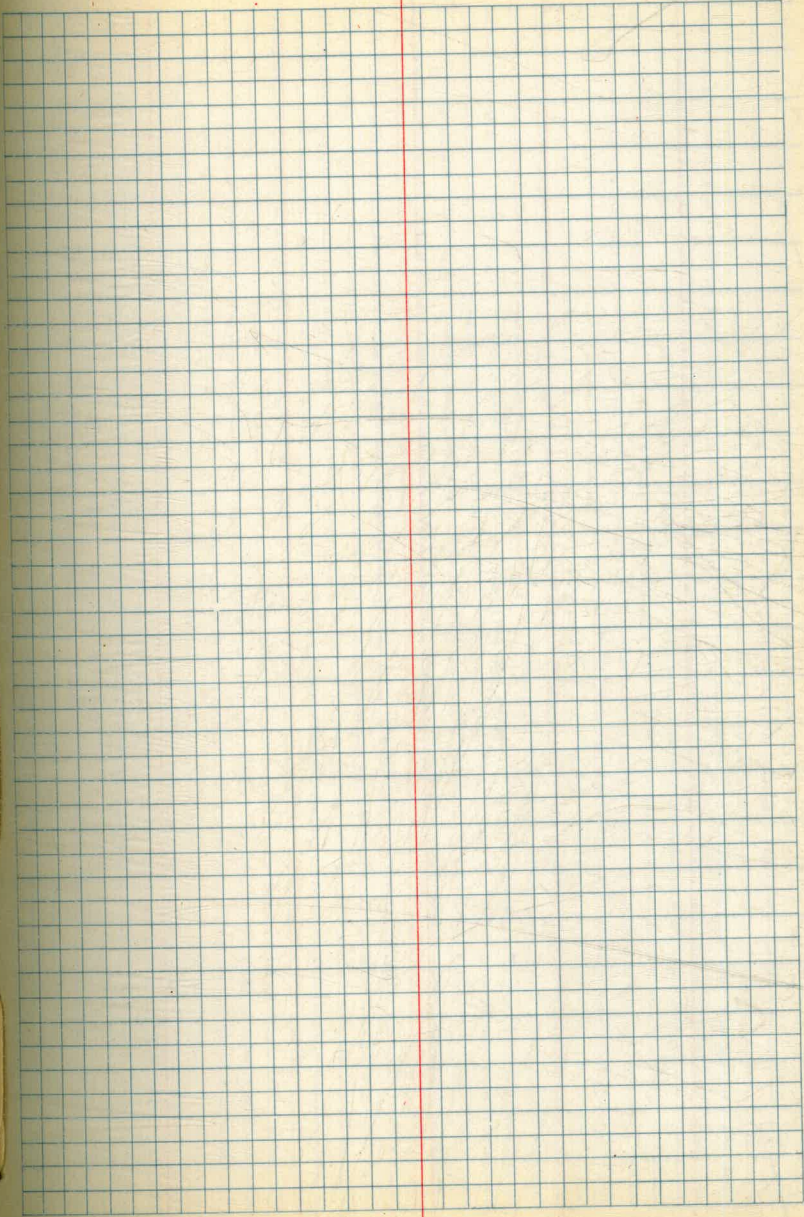
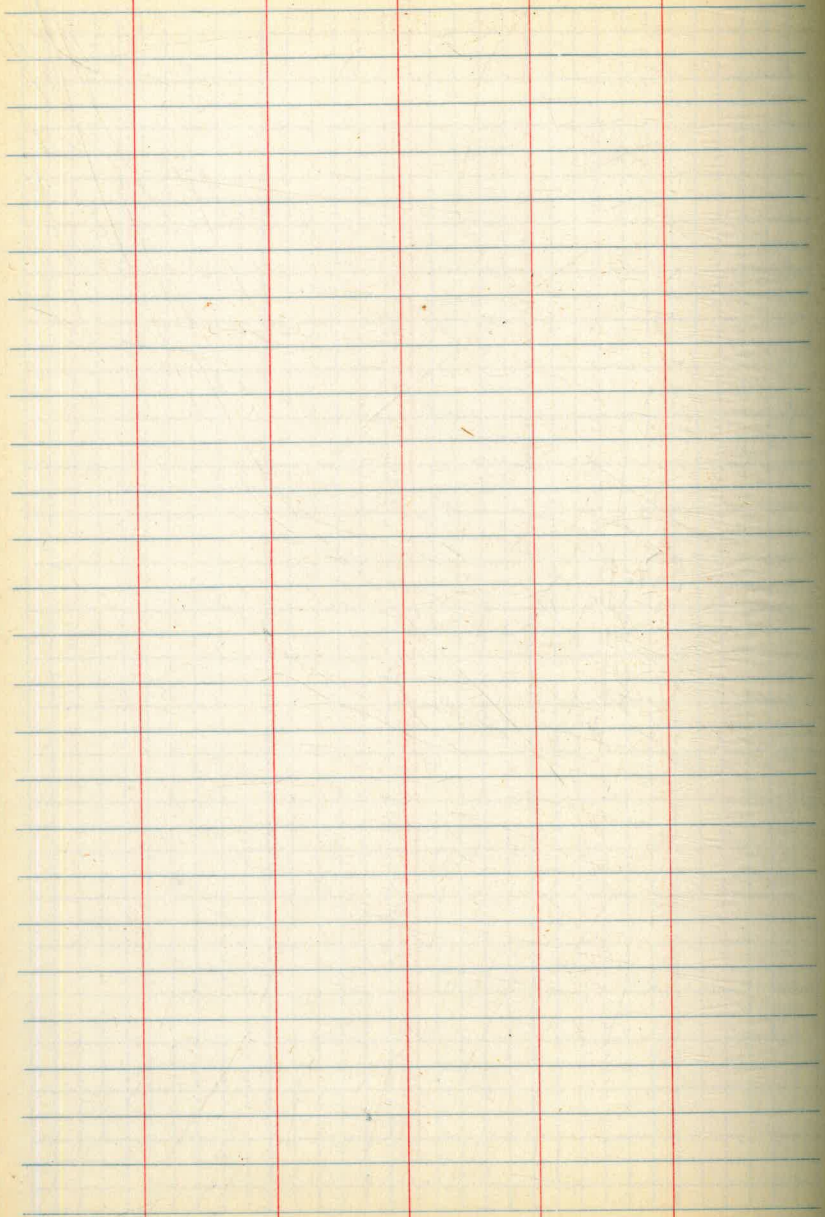
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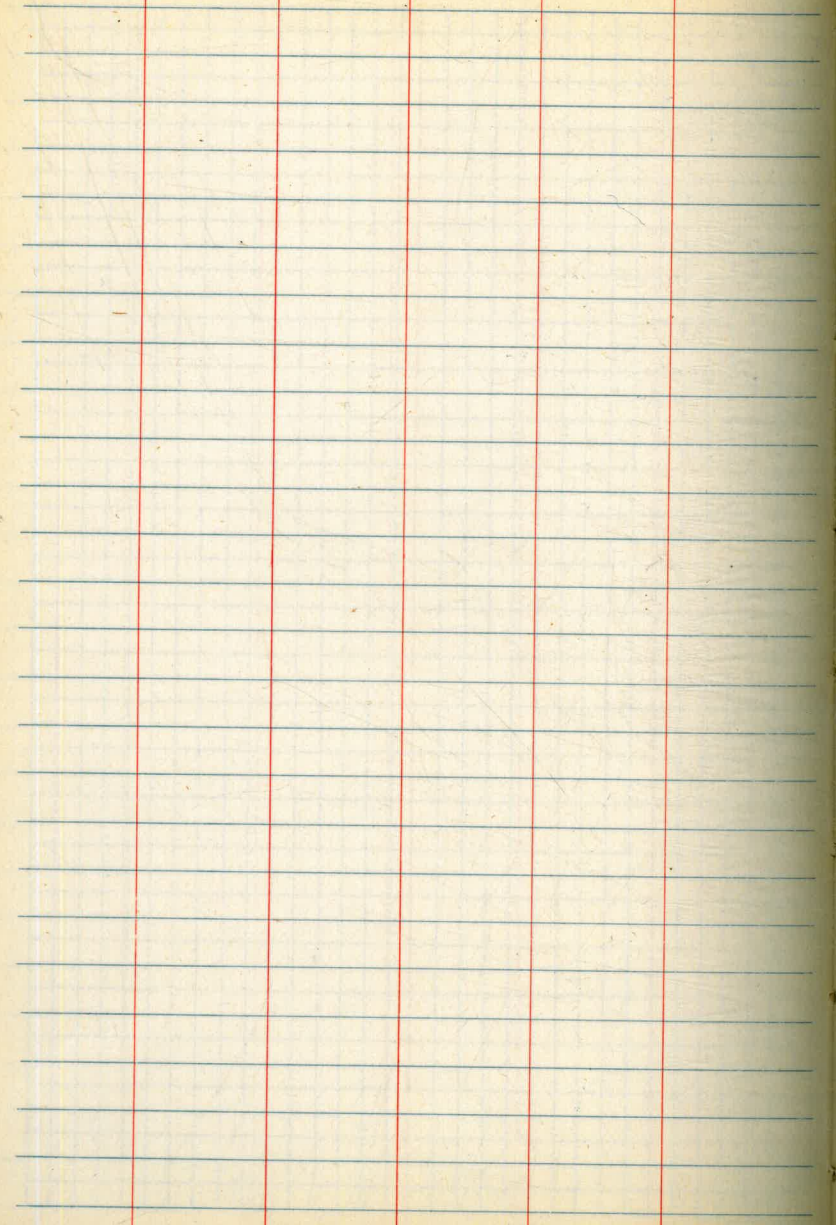
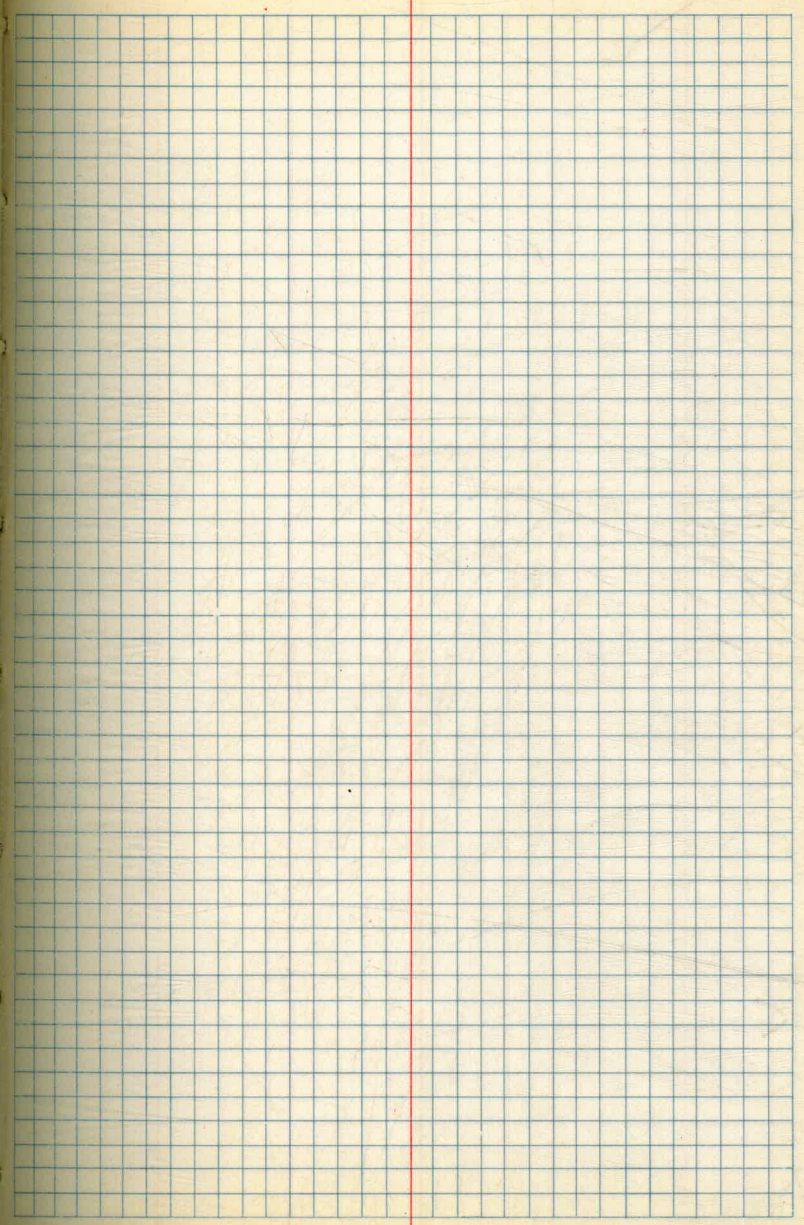
Blank grid page with a blue grid pattern and one vertical red margin line.





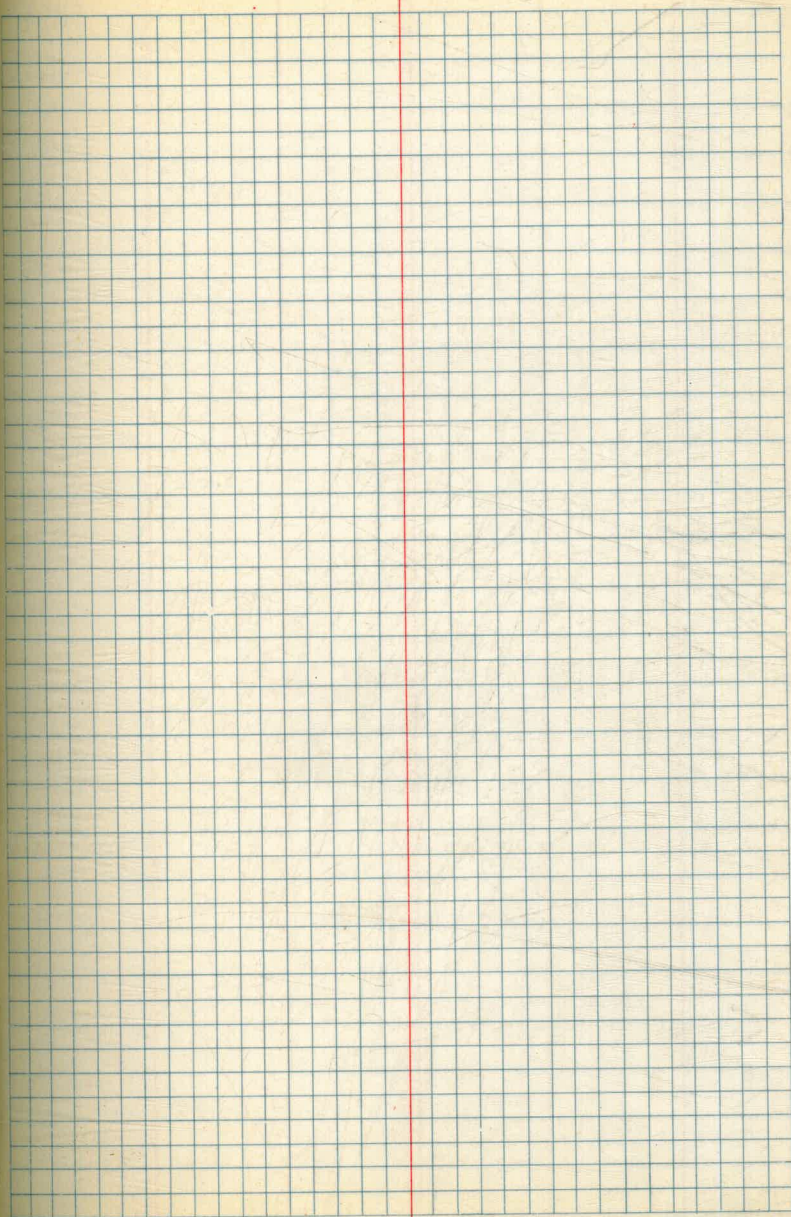
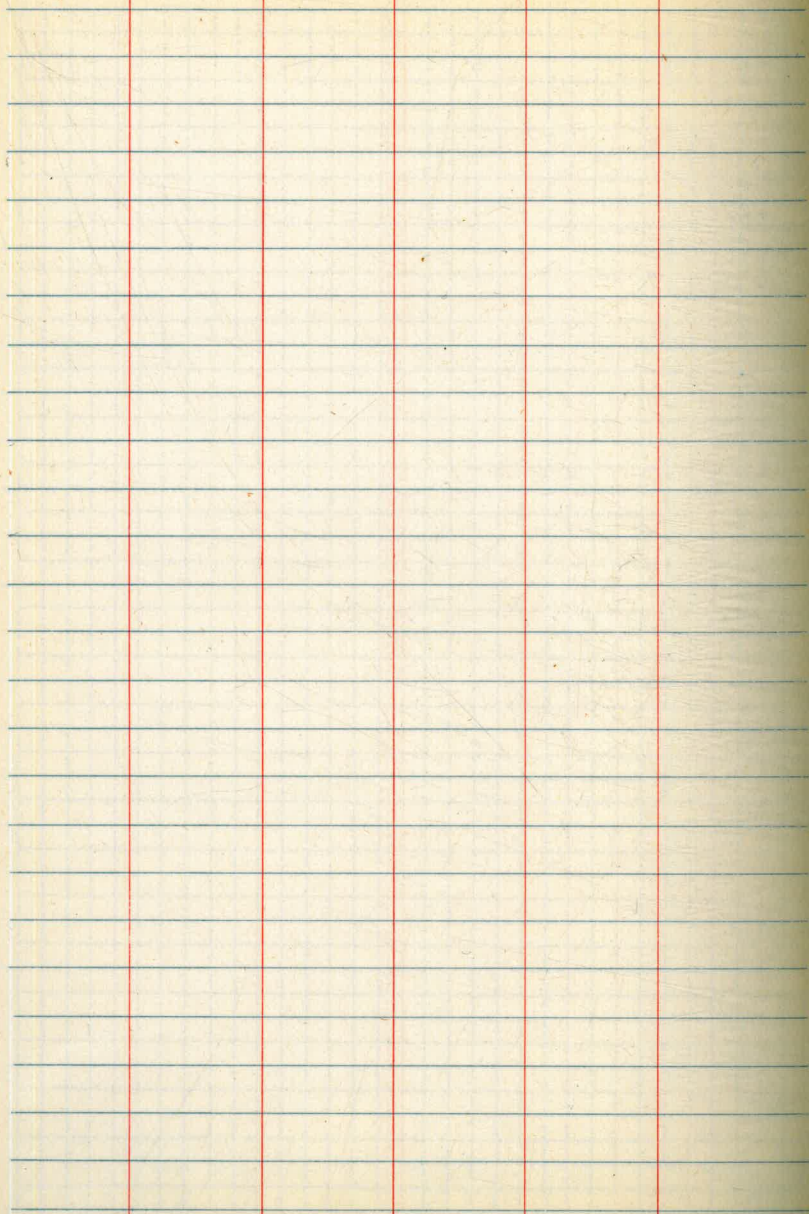






Blank lined page with horizontal blue lines and vertical red margin lines.

Blank grid page with a blue grid pattern and a vertical red margin line.



This page features horizontal blue lines for writing. It is divided into four vertical columns by three red margin lines. The columns are of varying widths, with the two inner columns being the narrowest and the two outer columns being wider.

This page is a grid page with a blue grid pattern. A single vertical red margin line is positioned on the left side of the grid, creating a narrow left margin. The grid covers the majority of the page area.

CATALINA PUMP PLANT
Sub-grd Blueprints for paving of
Access Road & Adjacent to BLDGS.

Aug. 12 1954

EGG
SHAW
MARTIN
ALEXANDER

54

BM	2.67	253.49	250.82	250.82
0+18.5	(75 RT & LT)			251.25
0+40	" " "			249.65 249.95
0+80	(" " ") (Begin Berm 1Ely)			246.30 246.75
1+30	85 RT & LT			242.05 242.25
IP	1.13	241.63	12.99	240.50
1+60	(" " ")			238.77
1+93	(85 LT, 105 RT BC)			234.95
2+18	(2 & 85 LT)			232.75 232.85
2+24.62	(2 & 85 LT BC)			232.65 232.75
PRC	LT			232.35 232.45
EC	LT wly line Bldg			232.25 232.30
2+60.74	End Berm			231.75
2+63.74	Nwly Cor Chamb.			231.85
	Sully Cor Chamb.			231.95
IP	5.15	237.43	9.35	232.28
OK TOM		5.12	237.31	232.32
	NE Cor Bldg.			232.25
	NW Cor Bldg, Sw Cor Bldg.			233.00
	DC on RT			234.75
	11.4 on Curve RT			234.07
	13' on Curve RT			233.29
	13.6 on Curve RT to EC.			232.55
	BC, 10' Rad.			232.15
	EC 10 RAD.			232.05

BP SW Cor Varona & Catalina				
& Shldr				
2.24	2.44	✓		
3.76	3.74	✓	1.38	4.02
6.74	6.94		7.19	7.39
11.24	11.44		11.44	11.64
2.86	2.06	✓		
6.68	6.88	✓		
8.78	8.98	°	8.88	9.08
8.88	9.08		8.98	9.18
9.18	9.28			
9.33	9.43			
9.88				
9.78				
9.68				

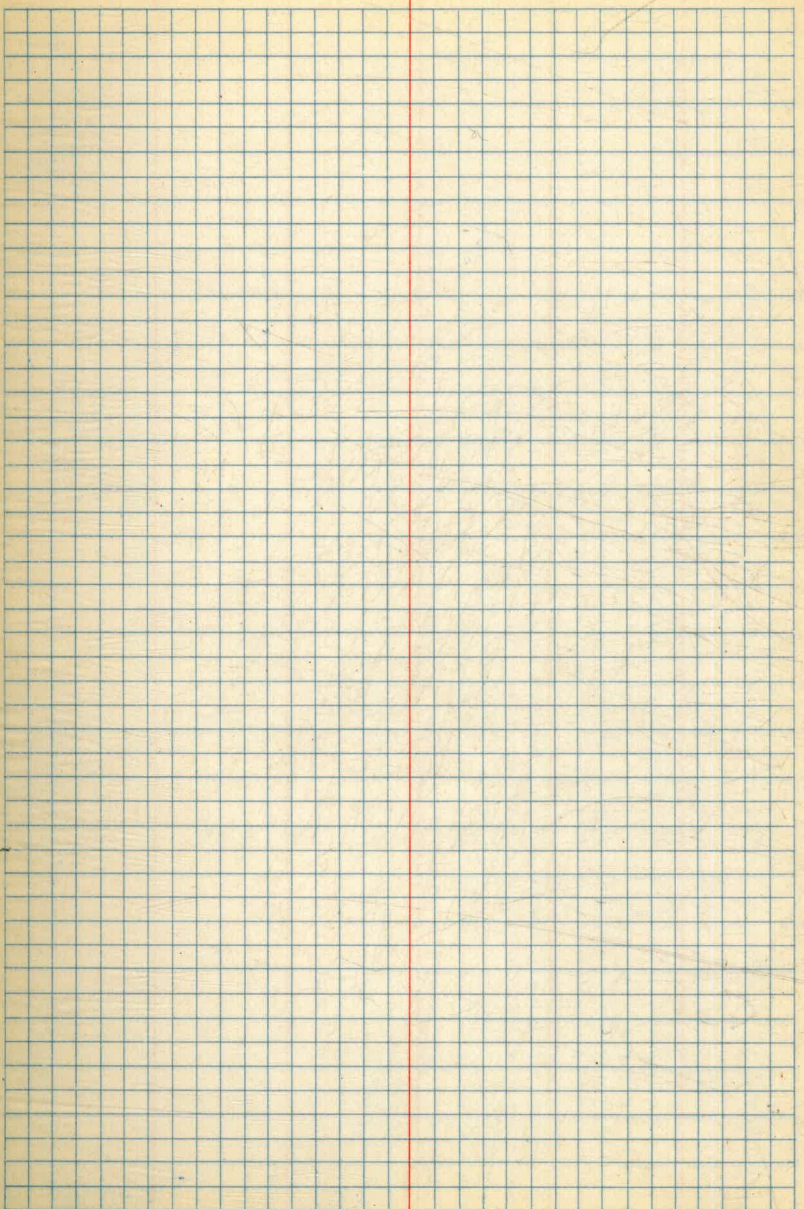
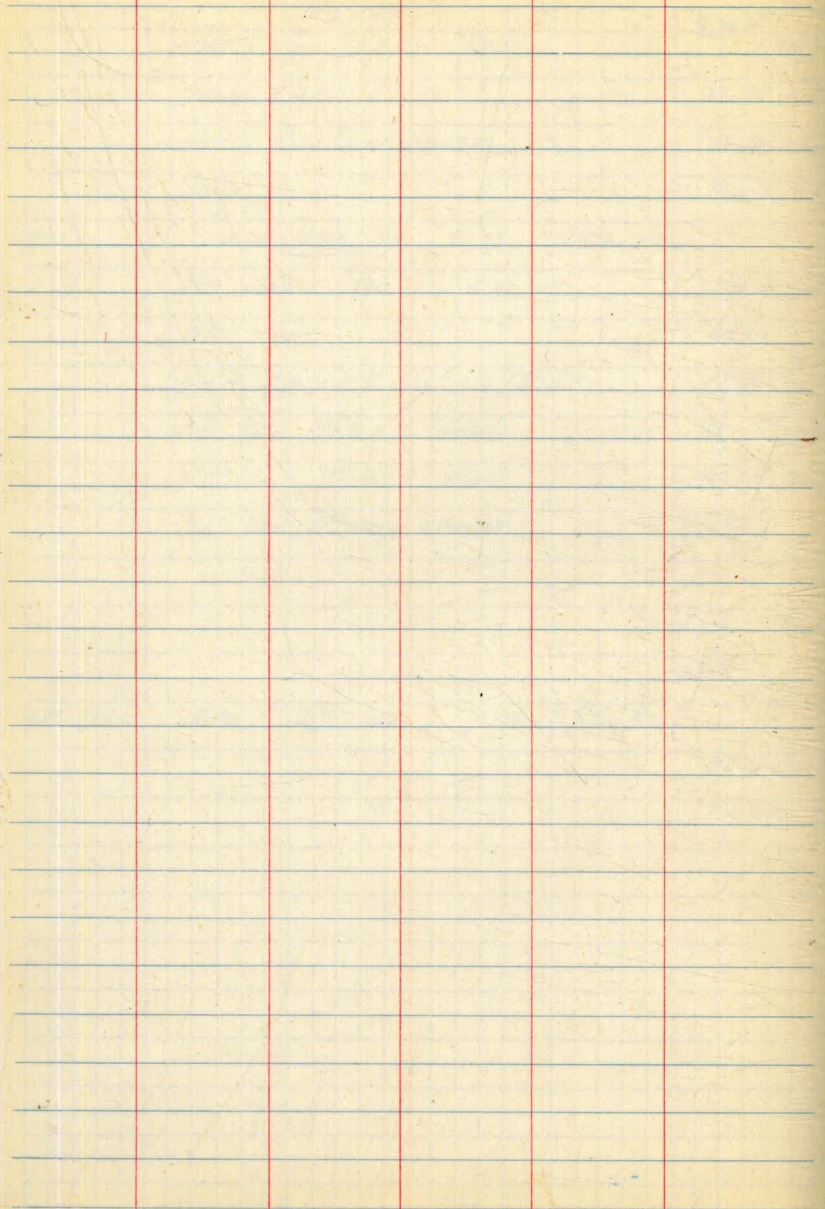
Chas II SE Cor Chamber

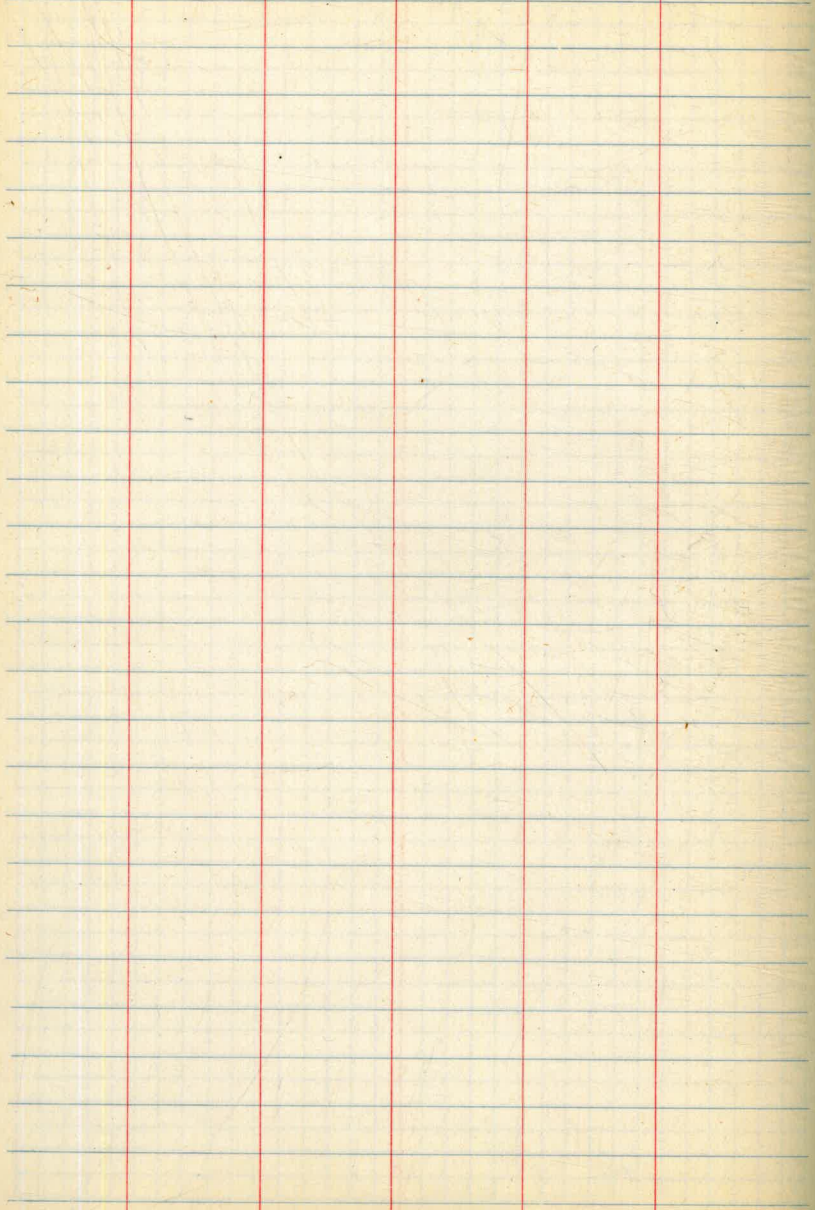
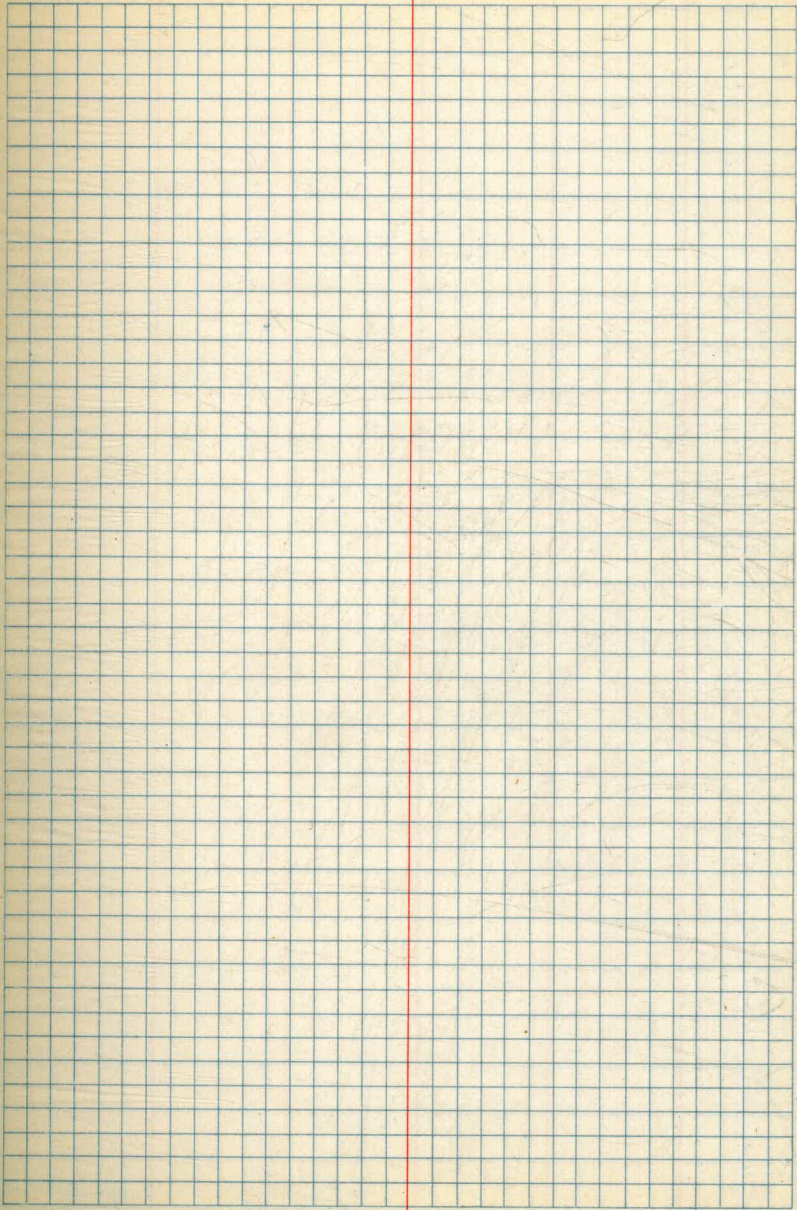
5.18	
4.43	
3.35	
4.14	
4.88	
5.28	
5.38	

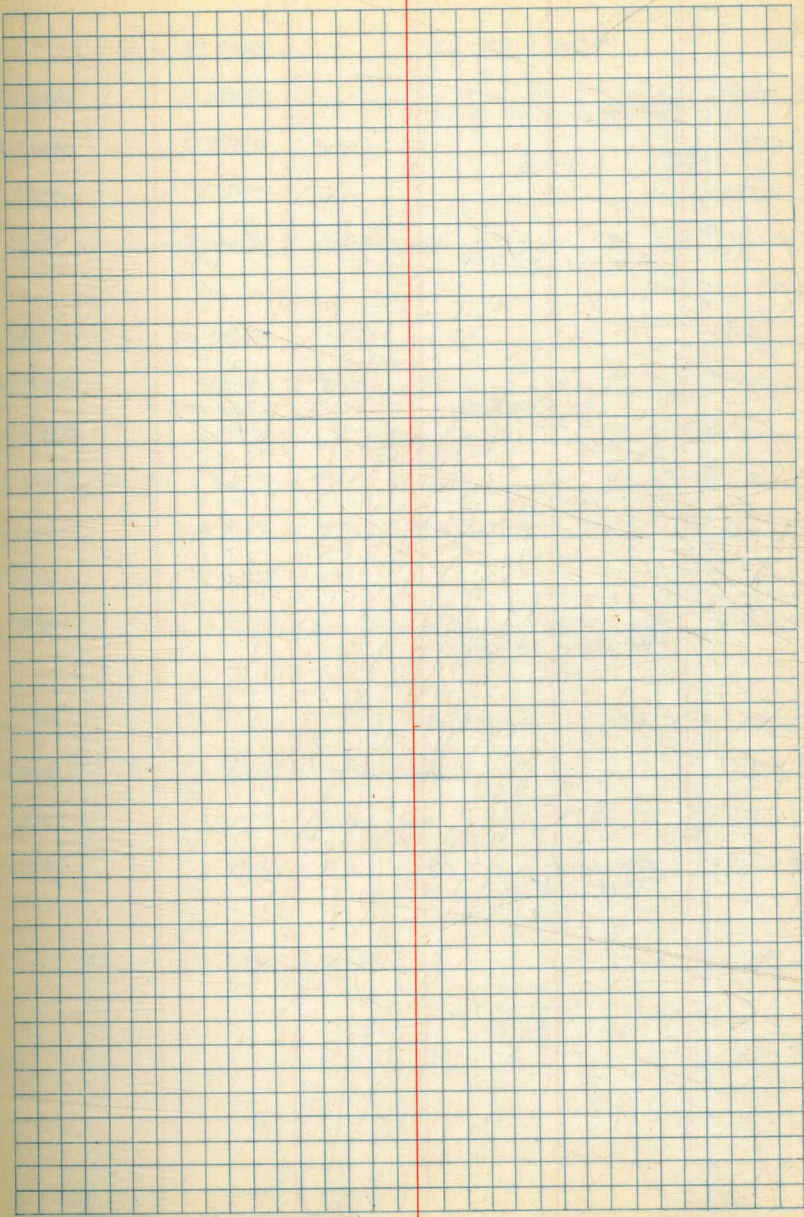
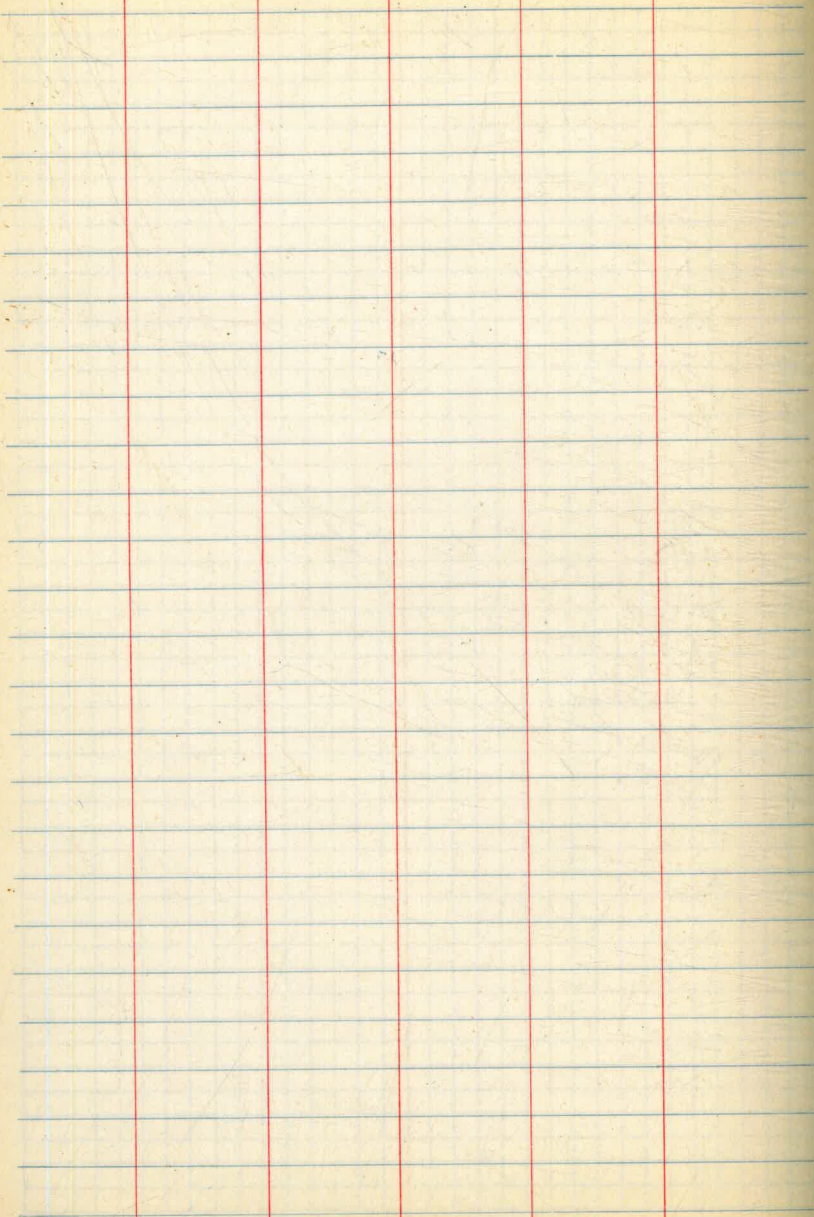
8/12/52

55

	237.29			subgrd	4.43
				233.0	
				232.65	4.78
				232.65	4.78
				232.35	5.08
PD	4.18	236.28	5.73	232.10	
				232.25	4.03
				232.55	3.73
				231.75	4.53
				232.55	3.73
				232.75	3.53
				232.75	3.53
				232.86	3.42
				232.75	3.53
CK BM	5.10	237.42	3.96	232.32	
				233.57	3.85
				232.79	4.63







CATALINA PUMP PLANT
 (4) GRDS for ELECTRIC CONDUIT

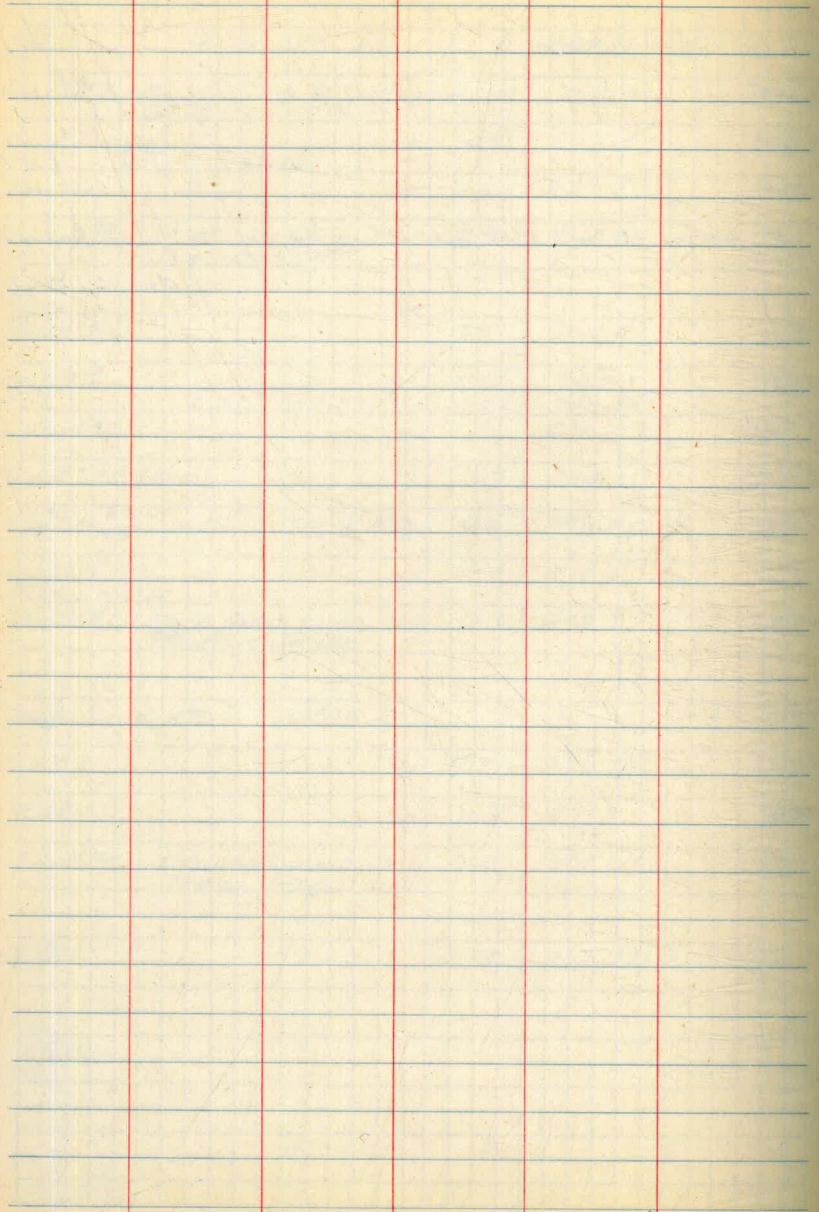
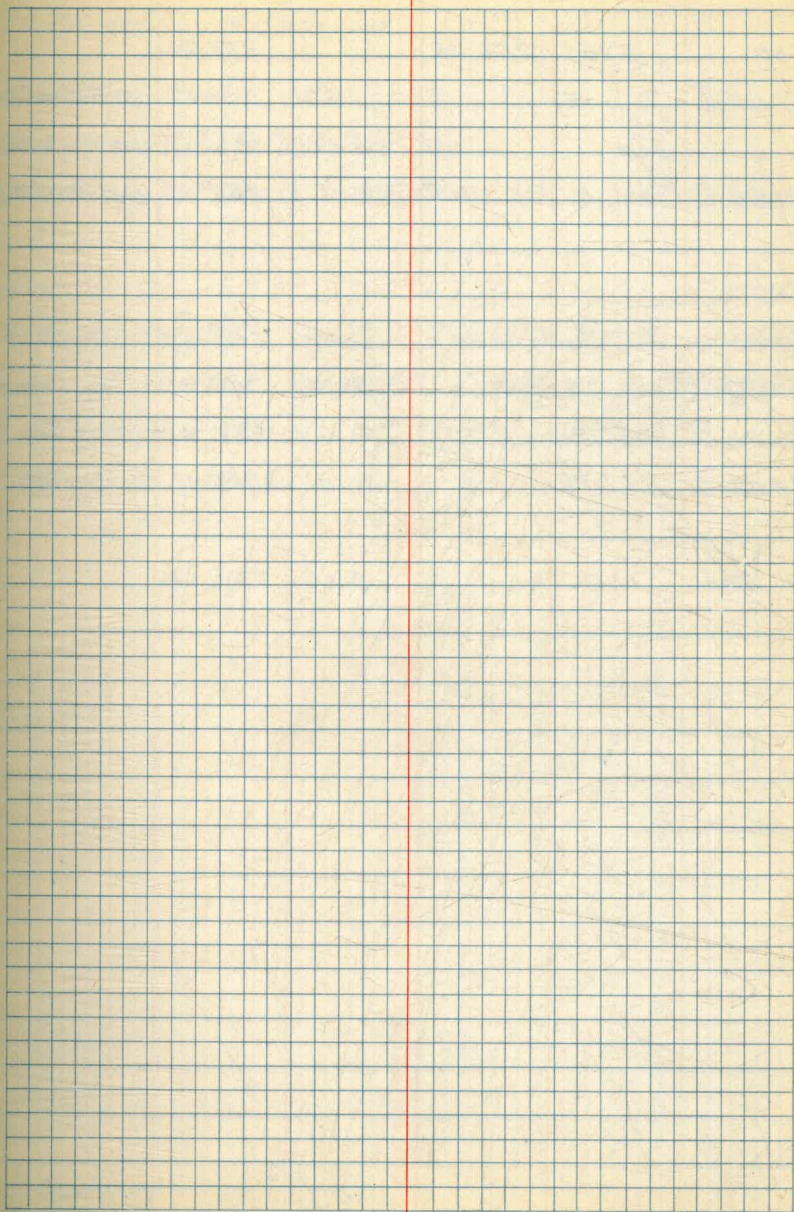
BM	2.76	253.58		250.82	
0+00	OK of Curb W. side CATALINA BLVD.	+0.4	254.0	249.5	
0+28		0.9	252.7	248.4	
0+50		1.8	251.8	247.6	
0+69.80	at Fly pipe line $\Delta = 17^{\circ}33' RT$	3.7	249.9	246.7	
1+09.80		7.2	246.4	243.5	
1+59.80		11.6	242.0	239.0	
2+09.80	1.51 243.51	11.58	242.00		
2+22.80	(B.C.)	7.1	236.4	233.2	
2+22.80		8.7	234.8	231.7	
2+30	X PT 30°14' RT	9.6	233.9	230.9	
2+55		11.0	232.5	229.4	
2+75					
2+79.5	FACE Pump house 820 from SW Cor.	10.6	232.9	230.0	
2+30	X PT 43°05' RT			230.9	
2+55		11.0	232.5	229.4	
2+80		10.5	233.0	229.7	
3+02.6	Stub up position Trans. Road.	10.9	232.6	230.0	
OK BM		11.19	232.32	= 232.32	

May 2, 1952
 Beatty
 Storey
 Nares
 Alexander

51

SW Cor. Catalina & Varona

C45	+ 0.5			
C42	0.9			
C42	1.6	0+45.1	251.6	248.0
C32	3.5	below Fingrd & Access Rd.		
C29	7.3			19.0" 12" 248.9
C30	11.5			1.3
C32	21.1			247.6
C31	26.6			
C29	36.1			
C31	46.6			
C29	56.2			
C31	66.7			
C33	76.2			
C29	86.7			
C31	96.2			
C33	106.7			
C29	116.2			
C31	126.7			
C33	136.2			
C29	146.7			
C31	156.2			
C33	166.7			
C29	176.2			
C31	186.7			
C33	196.2			
C29	206.7			
C31	216.2			
C33	226.7			
C29	236.2			
C31	246.7			
C33	256.2			
C29	266.7			
C31	276.2			
C33	286.7			
C29	296.2			
C31	306.7			
C33	316.2			
C29	326.7			
C31	336.2			
C33	346.7			
C29	356.2			
C31	366.7			
C33	376.2			
C29	386.7			
C31	396.2			
C33	406.7			
C29	416.2			
C31	426.7			
C33	436.2			
C29	446.7			
C31	456.2			
C33	466.7			
C29	476.2			
C31	486.7			
C33	496.2			
C29	506.7			
C31	516.2			
C33	526.7			
C29	536.2			
C31	546.7			
C33	556.2			
C29	566.7			
C31	576.2			
C33	586.7			
C29	596.2			
C31	606.7			
C33	616.2			
C29	626.7			
C31	636.2			
C33	646.7			
C29	656.2			
C31	666.7			
C33	676.2			
C29	686.7			
C31	696.2			
C33	706.7			
C29	716.2			
C31	726.7			
C33	736.2			
C29	746.7			
C31	756.2			
C33	766.7			
C29	776.2			
C31	786.7			
C33	796.2			
C29	806.7			
C31	816.2			
C33	826.7			
C29	836.2			
C31	846.7			
C33	856.2			



CATALINA PUMP PLANT
12" & 16" C.I. Pipe STR.D

April 15 1954

BETTY
SHUREY
MARTEL
ALEXANDER

61

BM	3.26	254.08	250.82
1+00 ⁰⁵	Top Existing 12" C.I.	4.21	249.87
	Bot		248.74
	Top "	12" C.I. 9.45	244.63
	Bot		243.50
0+00	Top "	16" Cross 11.13	242.95
	Bot		241.42
0+00			241.4
0+11	45° Bend (16")	8.43	245.65
0+35 ⁵⁵	C 16" Wye	7.10	246.98
0+42 ⁶⁵	45° Bend (12")	6.67	247.41
1+00 ⁰⁵	12" TEE (12)	3.10	250.98
			248.7

CK BM 3.26 250.82

SW Cor Vardna & Catalina

in Catalina Blvd.

Ben end of Catalina Pipeline

Existing 16" Cross to be replaced by 16" 45° Bend

(45) offset c225 0+11 = 10^{3/4} LT & 1+04⁵⁵

(45) offset c945 0+35⁵⁵ = 10^{3/4} LT & 5^{1/2} 0+80

(C) offset c388

(C) offset c228

CATALINA
PUMP PLANT

& # Grd Pump Bases.

BM	5.21	237.53	232.32	
		4.90	232.63	234.54
		4.71	232.82	234.54
		4.71	232.82	235.13
		4.70	232.83	235.13
		4.61	232.92	235.13

CK on Subgrade

NW Cor Pump House	233.00
NW Cor Trans Plat	233.00
SW Cor Trans pad	232.65
SW Cor Control House	232.25
NE Cor pump House	232.95
	232.25
SE Pump House	232.75
SE Cor Trans pad	232.55

CK BM

5.21 237.32

BM	12.71	245.03	232.32
		6.93	244.10 244.8

4/2/59

62

2.99 F191 N (2)

F172 S (2)

2.34 F231 N (2)

2.34 F230 S (2)

2.34 F221 S (2)

4.53

4.53

4.84

5.18

4.58

5.28

4.78

4.98

F07

CATALINA DUMP PLANT
SUB-GRADE STK.5

MAR. 30, 1954

63

BM.	2.92	253.74	250.82	sub-grad.
0+18.5				251.25
0+40				249.95
0+80				246.75
1+30				242.25
1+93	0.23	243.29	11.18	242.56
1+93				236.95
2+18				232.85
2+24.67				
2+43				233.00
2+63				232.95
				232.25
				231.95
				231.85
				231.75
				232.65
				232.45
				232.30
BM.				232.32
				232.75
				232.55
				233.65

BC. LT.

PRG. LT.

EC. LT.

10.97 232.32

EC. RT

1/4 PT.

# Grid Rod	Stk. 5
2.49	2.69
3.79	3.99
4.99	7.19
11.49	11.69
8.74	8.54
10.44	
10.29	
10.34	
11.04	
11.34	
11.44	
11.54	
10.64	
10.84	
10.99	
10.54	
10.74	
9.64	

3.79 3.99

4.99 7.19

11.49 11.69

8.74 8.54

10.44

10.29

10.34

11.04

11.34

11.44

11.54

10.64

10.84

10.99

10.54

10.74

9.64

243.29

P.C. 10' RAD

232.15

1/4 PT

EC 10' RAD

232.05

Bldg. line

231.95

Bldg. line

231.75

230.8

231.0

231.2

232.85

64

11.14

11.24
8.0 C2E

11.34
7.5 C1E 7.5

11.52

13.30 20' cut

12.5 C1E
11.5

12.3
10.8 C1E

12.2 C1E
12.1 11.1 C1E

10.44

CATALINA PUMP PLANT
Intercepting Ditch
SLOPE STAKES SET

BM.	12.91	245.23	232.32	
0+00 = 15' RT 1430		1.1	244.1	244.0
0+06 = 15' RT 1436		1.3	243.9	242.9
0+31		2.2	243.0	241.7
0+56		3.4	241.8	240.7
0+81		4.4	240.8	239.7
0+93 ⁹⁶ P.R.C.		3.8	241.4	239.4
1+06		4.1	241.1	238.6
1+18 ⁵		5.5	239.7	237.7
1+31		6.8	238.4	236.8
1+44 ²² FC		8.7	236.5	235.5
1+50 ⁹		9.4	235.8	234.7
1+79 ⁹ End Ditch		11.6	233.6	232.6

Mar. 26 1954
Deddy
Shorley
Harrell
Alexander

65

C15 = 2.0 base	0.8	C15	
	3.5	15 out	
C18 = 2.3 base	1.6	C18	
	4.2	13 out	
C11 = 2.1 base	2.8	C17	
	3.8	13 out	
C11 = 2.1 base	3.5	C20	
	4.1	22 out	
C20 = 3.0 base	3.4	C24	
	5.4	24 out	
C25 = 3.5 base	3.2	C32	
	6.9	32 out	
C25 = 3.5 base	4.5	C30	
	6.0	30 out	
C16 = 2.6 base	4.5	C19	
	4.5	19 out	
C10 = 2.0 base	7.9	C18	
	3.8	18 out	
C11 = 2.1 base	9.3	C13	
	3.3	13 out	
C10 = 2.0 base	11.4	C10	
	3	10 out	

CATALINA PUMP PLANT
Cont'd

3/25/53

66

BM 2.45 253.27 250.82

0+40 2.70 250.6 250.2

0+80 Begin Berm 6.2 247.1 247.0

1+30 9.5 243.8 242.5

HP 276 243.25 12.78 240.49

1+93 4.6 238.7 235.2

2+20.67 (B.C) LT 8.1 235.2 233.0

P.R.C LT 232.8

EC LT 232.7

End cut LT 232.3

Mid pt Curve RT 232.9

EC Curve RT 232.8

BC Curve 10' RAD 232.4

MID pt 232.3

EC Curve 10' RAD

SW BP Varona @ Catalina

RT 5/4

LT NY 6:1 C03 9.2 C04 11.2 2:1 3.3

1:1 C06 9.1 C07 9.2 C08 9.2 1:1 4.5

1:1 C17 10.2 C18 10.2 C19 10.2 1:1 11.0

C35 4.8 C36 4.3 C40 12.5 8.3

10.5 1:1 C50 12.5 C37 12.5

10.5 1:1 C47 19.7

10.6 1:1 C12 9.4 16.2

11.0 C02 @ Cor Chamber

9.4 C42 5.3 4.2

11.5 C61 4.4 6.1

10.9 C73 3.2 7.2

11.0 1:1 C61 4.9 6.1

CATALINA DUMP PLANT

Cont'd

3/25/54

67

	243.25		
FC CURVE 10' RAD			232.3
25' Ely			232.2
50' Ely			232.0

110	C33 38		
	32		
111	C35 76		
	32		
113	C16 97		
	12		

Control House

NE	9.53	233.72	C088
NW	8.50	234.75	C191
SE	8.92	234.31	C147
SW	8.35	234.90	C206

232.84	233.17
Subgrade	33
	232 84

TRANSFORMER PAD

NW	8.91	234.34	233.0
SW	8.64	234.61	233.0
NE	10.79	232.46	232.8
SE	10.57	232.68	232.8

C134
C161
F034
F012

PUMP HOUSE

NE	11.35	231.90	233.17
NW	10.18	233.07	
SE	10.93	232.32	
SW	9.17	234.08	

F127
F01
F083
C091

CK BM	10.94	232.31	= 232.32
-------	-------	--------	----------

VALVE CHAMBER		233.30	
---------------	--	--------	--

9.95	NW 1218	SW 1218	NE 1225	SE 1220
	295	295	295	295
	F 2.23	F 2.23	F 2.30	F 2.25

CATALINA PUMP PLANT
ELEV. TOP 16" C.I.

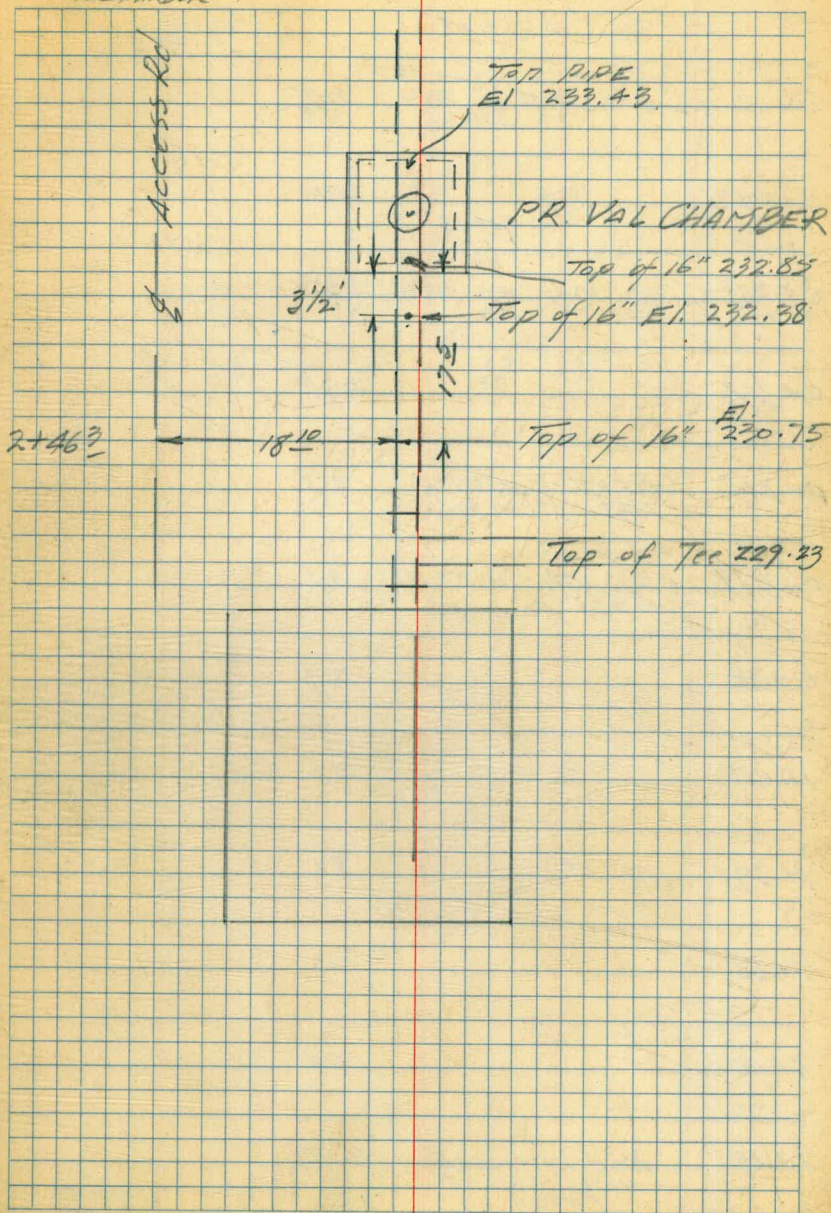
BM	8.13	240.45	232.32
Top 16" C.I. 35° E. VAL CH	8.07		232.38
Top 16" C.I. inside E. VAL CH	7.60		232.85
Top 16" C.I. inside W. VAL CH	7.02		233.43
CK BM	8.13		232.32

6/23/53

BM	5.51	237.83	232.32
Top 16" C.I. 17° E VAL CH	7.08		230.75
NAT. GRD " " "	4.5		233.33
CK BM	5.51		232.32

6/11/53
BOOTH
MARTELL
ALEXANDER

~~ZED~~ 68



CATALINA PUMP PLANT
& Profile Proposed
Intercepting Ditch

N. 254.48

0+00 25 RT Edge Conc Dr.
845 LT to Car Fire Station 2.55

0+089 26 247.55 2.70

0+293 2.35

0+303 2.35

0+367 (90° RT) = 16' RT of
1432 Access Road 2.7

0+372 (45° RT) = 16' RT of
1435 Access Rd. 3.1

0+50 2.3

1+00 4.2

1+39 (45° LT.) 8.2

1+50 9.3

2+00 14.4

2+19 End proposed
intercepting
Ditch 16.5

6-3-53

(5)

LT (Wly)		RT (Ely)		
2.40	2.55	2.42		}
2.5	C	2.5		
2.50	2.70	2.55		} on
2.5	C	2.5		
2.0	2.1	2.30	2.25	} Conc
2.5	1.5	0.8	0.8	
		1.95	2.20	} Drain
		1.6	2.5	
2.2	2.3	2.30	1.95	}
3.8	2.7	1.7	1.7	
		2.30	2.30	
		0.9	2.5	

CATALINA PUMP PLANT
& Profile & X-SECTS
ACCESS ROAD

BM	3.66	252.48		250.82
0+40 = Ely prop. line Catalina				
0+50			4.75	
1+00			8.8	
P	3.03	247.55	9.96	244.52
1+35			3.95	
		Rim of M.H. Val Chamber	3.62	243.93
1+50			4.7	
1+65			6.9	
2+00			9.4	
2+02.25	{ 500 = N100	} GRID	9.9	237.7
P	11.8	239.19	9.54	238.01
		Top Val Chamber 10" RT 2+72.65	8.15	231.04
		Top 16" C.I. 6" RT 2+76	11.45	227.74
		Top 18" Conc & Steel 30' LT 2+58.2	10.22	228.97
		Remained of elev.s Chambers, top of pipes are shown on topo. sheet.		
ck BM			6.88	232.31 - 232.32

6/4/33

BM SW Cor. Vanna & Catalina	2497	2500	2502	RT (Sly)
LT (WH)	2497 10 4.8	2500 10 4.8	2502 10 3.6	
	2461.3	2459	2457	2458
Top Conc. curb.	8.35 11.7 10	8.6 8 10	8.8 8.7 6	8.6 8.0 10
	2440	2436	2437	
	3.6 10	3.95 8	3.8 10	
	2434	2429	2422	2428
	3.8 10	4.7 8	5.3 7.3 10	4.8 10
	2413	2407	2411	
	4.3 10	5.9 8	5.3 10	
	2384	2382	2383	
	9.5 10	7.4 8	7.4 10	
	2378	2377	2372	
	9.8 10	8.9 8	7.7 10	

Moles reduced
by JTT + G-12-53

SW Cor Val Chamber

TIES MADE FROM E ACCESS ROAD

2+72²⁰ 75 RT Press Riser pipe (20'± Hght.)
 2+80²⁰ 555 RT 1555 RT } Val Chamber Conc
 2+72⁶⁵ 555 RT 1555 RT } wood top.
 2+80⁷⁵ 75 LT }
 2+81¹⁰ 218 LT } Conc Val Chamber
 2+83⁵³ 75 LT }
 2+63⁷⁴ 218 LT }
 2+58² 234 LT to GV, 40'± to 3/4 RT in. Line 45° LT.?
 2+28⁷⁵ 1455 LT 2155 LT }
 2+20⁷⁵ 1455 LT 2155 LT } Conc Val Chamber
 2+02²⁵ Intersection of Grid. (see pg. 70)
 1+64 27 RT Acacia Clump.
 1+45 19° RT. Acacia Clump.
 1+54 End 1 1/2" AC 8 LT
 1+35⁵ 17 RT }
 1+30⁵ 17 RT } Conc. Drain from Fire station
 1+40³⁰ LT. 82 x 92 Conc Val Chamber
 1+32 Begin 1 1/2" AC 2 LT.
 1+32 125 LT, 82 x 92, Conc Val Chamber
 1+26⁵ 24 LT 8" Avocado tree
 1+19 20 RT 7" Acacia tree
 1+17 23 LT 5" Locquat Tree
 1+06⁹⁰ 1175 LT. End 6" Curb
 1+00⁷⁵ 1592 LT, 5172 LT. Cor Existing Pump House
 0+84⁴ 175 RT 2" Locquat Tree
 0+80 119 LT Beg Conc Curb.
 0+84⁴ 112 LT Edge Conc Curb, 15² LT Cor ^{Exista} Plant ^{Pump} Bldg
 0+85 5² LT 8" Mock Orange Tree (2-4" Trunks)
 0+76⁶ 9² LT Po. Pole
 0+51 11² RT near edge 36" Dia Date Palm
 0+40 = Prop. LINE
 0+36⁶ 281 LT Po. Pole (#P.C 1172)
 0+00 = E CATALINA Blvd. & Access Road.

6-4-53

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2+76 ⁴	} 22 RT & 16" MAINS	} TO RESERVIOR
2+67 ¹		
2+66 ²	} 81 RT & 16" MAINS	
2+76 ²		
2+76 ⁵	} 100 RT & 16" MAINS	
2+67 ⁵		
0+72 ⁵⁰	} 38 ⁵⁵ LT, 44 ²⁵ LT Conc Val Chamber wood top	
0+80		
0+76 ⁴	} 20 ⁹ LT, 26 ⁶ LT Conc Val Chamber wood top.	
0+66 ²		

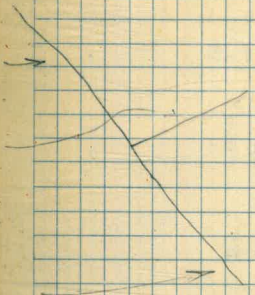
PROPOSED CATALINA DUMP PLANT
Additional X-Sections

May 13, 1953

72

TBM				SE Cor. Dbl Val. Chamber
N 00	E 70	234.37	232.32	
N 00	E 81	1.1	233.2	
N 00	E 81	2.5	231.8	E Ravine
N 00	E 89	0.8	233.5	Top Dike
N 00	E 97	3.7	230.6	Bottom Dike
N 00	E 120	5.1	229.2	
N 00	E 140	6.2	228.1	
N 00	E 145	6.5	227.8	
N 20	E 120	5.4	228.9	
N 20	E 129	4.4	229.9	Top dike
N 20	E 136	6.8	227.5	
N 20	E 140	6.9	227.4	
N 20	E 145	7.4	226.9	
N 40	E 105	1.9	232.4	Top dike
N 40	E 120	5.6	228.7	
N 40	E 140	8.4	225.9	
N 40	E 145	8.8	225.5	
N 60	E 116	6.7	227.6	E Ravine
N 60	E 120	5.9	228.4	
N 60	E 140	9.9	224.4	E Ravine
N 60	E 145	10.6	223.5	
N 80	E 120	7.7	226.6	
N 80	E 134	10.0	224.3	E Ravine
N 80	E 137	9.2	225.1	
N 80	E 140	10.2	224.1	
N 80	E 145	10.8	223.5	

Notes Reduced
by JFT



CATALINA PUMP PLANT
Cont'd

N 100	E 120	234.33	8.8	225.5	
N 100	E 140		10.9	223.4	
N 100	E 145		11.5	222.8	
N 100	E 147		12.9	221.4	
N 100	E 148		13.4	220.9	& Ravine
N 100	E 153		10.9	223.4	
N 120	E 120		11.5	222.8	
N 120	E 140		13.3	221.0	
N 140	E 145		13.8	220.5	
N 140	E 120		13.0	221.3	
N 140	E 100		14.0	220.3	
N 140	E 145		14.2	220.1	
OK BM			2.01	232.32	

Cross Section Intersection of

BM	4.71	255.53	250.82	OP 56 Cor Varona & Cat
0+00	Ely. Prop line Catalina Blvd (on dirt)	4.8	250.7	
0+21E	Edge 1/2" AC Pavt	4.0	251.5	
0+23	Gutter line 3" AC Pavt	4.2	251.3	
0+26	on 2" AC	3.9	251.6	
0+40	& Catalina 4" AC Pavt.	3.2	252.3	
OK BM		4.71	250.82	

5/13/53

73

Notes Reduced
by JST

Access Road & Catalina Blvd. (see sketch pg 74)

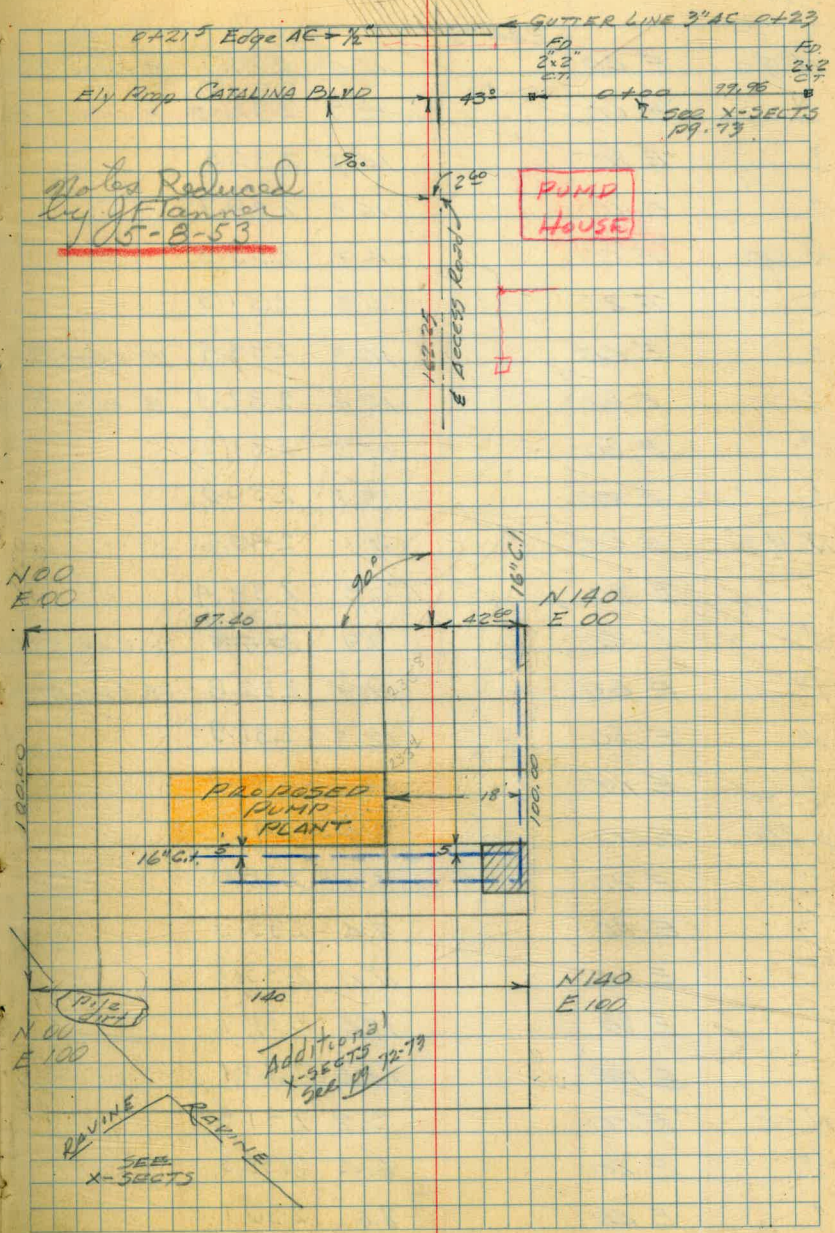
LEFT Sky	2.1	3.7	4.5	4.8	5.8	RIGHT Sky
	18	11	6	2	25	
		3.6		4.0	4.4	
		25		2	25	
		3.7		4.2	4.6	
		25		0	25	
		4.3		3.9	3.5	
		25		2	25	
		2.6		3.2	3.8	
		25		2	25	

PROPOSED CATALINA DUMP PLANT.
CROSS-SECTIONS
20' GRID.

BM.	4.26	255.08		250.82	BR. SW COR VARIOUS CATALINA
IP	0.40	242.97	12.51	242.57	
SET TBM	12.43	244.75	10.65	232.32	SE COR DRAIN VAL CHAMBER
N 140	E 00		+3.75	241.0	?
"	E 09		+3.75	241.0	(RES. ROOF)
"	E 09		0.92	243.8	(RES. ROOF)
"	E 20		2.0	242.5	
"	E 40		10.5	234.2	
"	E 60		13.3	231.4	
"	E 80		15.6	229.1	
"	E 100		19.2	225.5	
N 120	E 00		3.6	241.1	
"	E 20		6.6	238.1	
"	E 40		10.5	234.2	
"	E 60		13.1	231.6	
"	E 80		14.8	229.9	
"	E 100		18.6	226.1	
N 100	E 00		7.1	237.6	
"	E 20		8.9	235.8	
"	E 60		11.3	233.4	NW COR BUILDING
"	E 60		12.7	232.0	NE COR BLDG.
"	E 80		14.4	230.3	
"	E 100		16.2	228.5	
N 80	E 00		6.0	238.7	
"	E 20		8.4	236.3	

MAY 8, 1953
BEATTY
MARTELL
ALEXANDER

CATALINA 0440 74



CATALINA PUMP PLANT
Cont'd

5/8/53

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		244.75		
N 80	E 40	11.0	233.7	w. edge Bldg
"	E 60	12.7	232.0	E. edge Bldg
"	E 80	14.2	230.5	
"	E 100	16.0	228.7	
N 60	E 00	4.9	239.8	
"	E 20	6.8	237.9	
"	E 40	10.3	234.4	w. edge Bldg
"	E 60	12.4	232.3	E. edge Bldg
"	E 80	13.5	231.2	
"	E 100	13.8	230.9	
N 40	E 0.0	4.1	240.6	
"	E 20	6.3	238.4	
"	E 40	9.9	244.8 234.8	sw. Cor. Bldg
"	E 60	11.9	232.8	SE Cor. Bldg
"	E 80	12.8	231.9	
"	E 100	13.8	230.9	
N 20	E 00	3.5	241.2	
"	E 20	6.7	238.0	
"	E 40	9.4	235.3	
"	E 60	11.0	233.7	
"	E 80	13.0	231.7	
"	E 100	14.6	230.1	
N 00	E 00	3.2	241.5	
"	E 20	6.4	238.3	
"	E 40	8.6	236.1	

Notes Reduced
by G. F. Penner
5-8-53

CATALINA PUMP PLANT
(Cont'd)

5-8-53

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N 00	E 60	242.75	10.4	234.3
"	E 80		12.6	232.1
"	E 100		13.5	231.2
CK TBM			12.43	232.32
TR	11.04	252.49	1.30	263.45
CK BM			3.67	250.82 = 250.82

Notes reduced
by JF Tanner
5-8-53

SE Cor. Dbb'l Val. Chamber

BP. SW Cor. Valencia & Catalina.

Elevations of Top of
pipes at Catalina Pump Plant

Sta	+ HI	-
2.56	253.38	250.82
	3.66	249.72
	10.44	242.94
	2.56	250.82 = 250.82

West
Williams
Varonakis

6-30-53

77

BM BP SW cor Varona + Catalina
Top 15" Pl. 125' south of 2x0
Hub & Tack on Pl.
Top of 16" CROSS 11.3 east of pump house

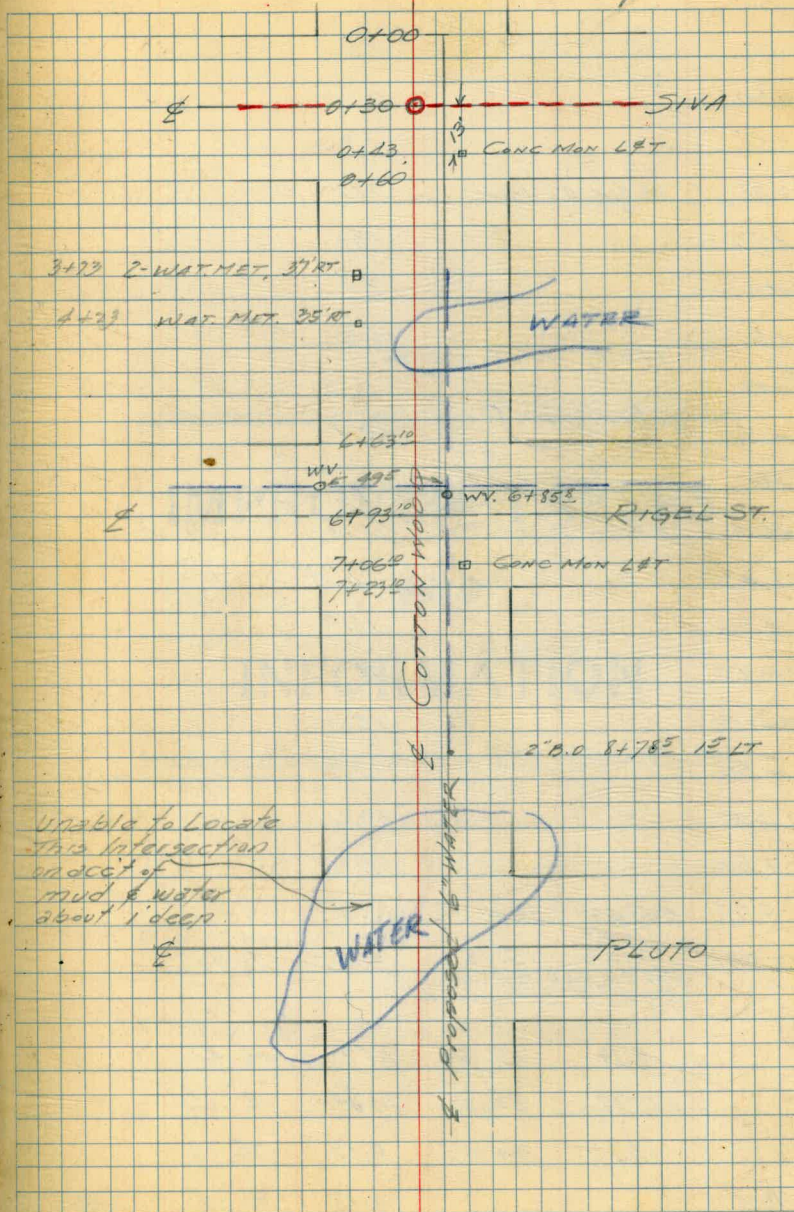
BM BP

COTTON WOOD ST.
SIVA To PLUTO
PROPOSED 6" WATER MAIN
H.I.

BM	4.20	11.48 ✓	07.28	CHS II SW Cor MAIN & TADR
P	9.96	14.49 ✓	6.95	04.53 ✓
Elev. CONC MAN 13' offset		10.86		Note: Conc Cover Cemented off.
Elev. Top SEWER M.H.		7.17		
0+00		10.5		
+50		10.8		
1+00		10.7		
+50		10.8		
2+00		10.8		
+50		10.7		
3+00		11.6		
+50		12.1		
+60		12.4		
+71 at P.O.		11.1		
773 2-WAT. MET. 37' RT.				
4+00		4.0		
+12		2.5		
+23 WAT. MET. 35' RT		2.3		
+38		2.8		
+50		5.6		
+70 Edge of water		12.2		
5+00 in water		14.2		
+31 Edge of water		12.2		
+50 WAT MET 20' LT		6.6		
+80		1.1		
P	3.69	17.35 ✓	0.83	13.66 ✓

MAR. 29, 1952
BEATTY
PUNELL
DORRER

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COTTONWOOD ST
Cont'd

		17.35		
6+00			2.5	
+50			0.5	
+66			1.0	
+76	Edge A.C. Pavt.		2.3	
+93			1.85	
7+00			2.1	
+50			4.5	
	7+87	16' LT WAT. MET		
8+00			6.8	
	8+08	31' RT WAT. MET		
+50	8+25	18' LT " "	9.1	
	8+58	13' LT " "		
9+00	8+60	34' RT " "	10.1	
	8+80	33' R 2-WAT. MET		
9+04	End A.C. pavt.		10.2	
+45			12.4	
+50			11.9	
+75			11.2	
10+00			12.3	
+50			13.3	
11+00			13.6	
+50			13.9	
+75	Edge of Water		14.3	
SET TBM	2.08	15.98	3.45	13.90
	Nail in pole SW Cor Rigel & Cottonwood			
P	8.79	15.20	9.57	06.41
P	13.19	25.85	2.54	12.66
P	13.31	39.03	0.13	25.72
OK B.M.			0.18	38.85 = 38.86

BP. NE COR
32' 70 & MAIN

DIRECTIONS FOR USE OF TABLES

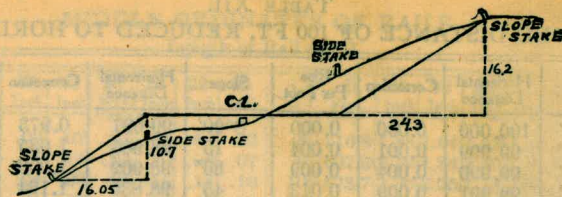
TABLE No. 1.

Distance of slope stake from side or shoulder stake for any width roadway, slope 1 1/2 to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body of table in same row and column gives distance

IMPROVED TABLES
AND
INFORMATION

TABLE No. 2.

To find Tangent and External for curve of any other degree, divide by degree of curve and add correction found in column of corrections. Degree of curve with a given I may be found by finding tangent (or external), opposite by given tangent (or external). The distance from a point on the tangent to the curve is very nearly the square of the tangent length divided by twice the radius.



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.

SLOPE 1 1/2 TO 1. ROADWAY OF ANY WIDTH.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.00	0.15	0.80	0.45	0.60	0.75	0.90	1.05	1.20	1.85	0
1	1.50	1.05	1.80	1.95	2.10	2.25	2.40	2.55	2.70	2.85	1
2	3.00	3.15	3.80	3.45	3.60	3.75	3.90	4.05	4.20	4.85	2
3	4.50	4.65	4.80	4.95	5.10	5.25	5.40	5.55	5.70	5.85	3
4	6.00	6.15	6.30	6.45	6.60	6.75	6.90	7.05	7.20	7.35	4
5	7.50	7.65	7.80	7.95	8.10	8.25	8.40	8.55	8.70	8.85	5
6	9.00	9.15	9.30	9.45	9.60	9.75	9.90	10.05	10.20	10.85	6
7	10.50	10.65	10.80	10.95	11.10	11.25	11.40	11.55	11.70	11.85	7
8	12.00	12.15	12.30	12.45	12.60	12.75	12.90	13.05	13.20	13.85	8
9	13.50	13.65	13.80	13.95	14.10	14.25	14.40	14.55	14.70	14.85	9
10	15.00	15.15	15.30	15.45	15.60	15.75	15.90	16.05	16.20	16.85	10
11	16.50	16.65	16.80	16.95	17.10	17.25	17.40	17.55	17.70	17.85	11
12	18.00	18.15	18.30	18.45	18.60	18.75	18.90	19.05	19.20	19.85	12
13	19.50	19.65	19.80	19.95	20.10	20.25	20.40	20.55	20.70	20.85	13
14	21.00	21.15	21.30	21.45	21.60	21.75	21.90	22.05	22.20	22.85	14
15	22.50	22.65	22.80	22.95	23.10	23.25	23.40	23.55	23.70	23.85	15
16	24.00	24.15	24.30	24.45	24.60	24.75	24.90	25.05	25.20	25.85	16
17	25.50	25.65	25.80	25.95	26.10	26.25	26.40	26.55	26.70	26.85	17
18	27.00	27.15	27.30	27.45	27.60	27.75	27.90	28.05	28.20	28.85	18
19	28.50	28.65	28.80	28.95	29.10	29.25	29.40	29.55	29.70	29.85	19
20	30.00	30.15	30.30	30.45	30.60	30.75	30.90	31.05	31.20	31.85	20
21	31.50	31.65	31.80	31.95	32.10	32.25	32.40	32.55	32.70	32.85	21
22	33.00	33.15	33.30	33.45	33.60	33.75	33.90	34.05	34.20	34.85	22
23	34.50	34.65	34.80	34.95	35.10	35.25	35.40	35.55	35.70	35.85	23
24	36.00	36.15	36.30	36.45	36.60	36.75	36.90	37.05	37.20	37.85	24
25	37.50	37.65	37.80	37.95	38.10	38.25	38.40	38.55	38.70	38.85	25
26	39.00	39.15	39.30	39.45	39.60	39.75	39.90	40.05	40.20	40.85	26
27	40.50	40.65	40.80	40.95	41.10	41.25	41.40	41.55	41.70	41.85	27
28	42.00	42.15	42.30	42.45	42.60	42.75	42.90	43.05	43.20	43.85	28
29	43.50	43.65	43.80	43.95	44.10	44.25	44.40	44.55	44.70	44.85	29
30	45.00	45.15	45.30	45.45	45.60	45.75	45.90	46.05	46.20	46.85	30
31	46.50	46.65	46.80	46.95	47.10	47.25	47.40	47.55	47.70	47.85	31
32	48.00	48.15	48.30	48.45	48.60	48.75	48.90	49.05	49.20	49.85	32
33	49.50	49.65	49.80	49.95	50.10	50.25	50.40	50.55	50.70	50.85	33
34	51.00	51.15	51.30	51.45	51.60	51.75	51.90	52.05	52.20	52.85	34
35	52.50	52.65	52.80	52.95	53.10	53.25	53.40	53.55	53.70	53.85	35
36	54.00	54.15	54.30	54.45	54.60	54.75	54.90	55.05	55.20	55.85	36
37	55.50	55.65	55.80	55.95	56.10	56.25	56.40	56.55	56.70	56.85	37
38	57.00	57.15	57.30	57.45	57.60	57.75	57.90	58.05	58.20	58.85	38
39	58.50	58.65	58.80	58.95	59.10	59.25	59.40	59.55	59.70	59.85	39
40	60.00	60.15	60.30	60.45	60.60	60.75	60.90	61.05	61.20	61.85	40
41	61.50	61.65	61.80	61.95	62.10	62.25	62.40	62.55	62.70	62.85	41
42	63.00	63.15	63.30	63.45	63.60	63.75	63.90	64.05	64.20	64.85	42
43	64.50	64.65	64.80	64.95	65.10	65.25	65.40	65.55	65.70	65.85	43
44	66.00	66.15	66.30	66.45	66.60	66.75	66.90	67.05	67.20	67.85	44
45	67.50	67.65	67.80	67.95	68.10	68.25	68.40	68.55	68.70	68.85	45
46	69.00	69.15	69.30	69.45	69.60	69.75	69.90	70.05	70.20	70.85	46
47	70.50	70.65	70.80	70.95	71.10	71.25	71.40	71.55	71.70	71.85	47
48	72.00	72.15	72.30	72.45	72.60	72.75	72.90	73.05	73.20	73.85	48
49	73.50	73.65	73.80	73.95	74.10	74.25	74.40	74.55	74.70	74.85	49
50	75.00	75.15	75.30	75.45	75.60	75.75	75.90	76.05	76.20	76.35	50

Computed by L. Leland Locke.

8 + 70 = 4.7 = 158.76
 B.L. line 4.6 = 158.86

163.46
 4.60
 158.86

227.72
 38.1
 218.62

233.50
 4.10
 237.60

10 x 7 = 40575

13 x 18 = 46660

233.89
 12.37
 221.58
 0.14
 221.74
 11.56
 210.56
 12.77
 197.79
 0.76
 198.55
 12.35
 186.20
 0.73
 186.93
 12.66
 174.27
 0.99
 175.26
 12.62
 162.64
 0.82
 163.46
 12.61
 150.85
 4.78
 155.63

705

19.2
 233-22
 58.20430
 31 31 20

101.75
 1414
 40700
 10175
 40700
 10175
 10387450
 3720
 18207

245.7
 11.3
 239.4

150
 120

255.62
 771
 277.91

BM 38.85
 +0.18
 39.03
 -13.31
 25.72
 -0.13
 25.59
 -13.17
 12.66
 +2.54
 15.20
 -8.79
 6.41
 +9.57
 15.98

71.75
 1414
 28700
 2175
 28700
 7175
 10145450
 3720
 138.65

587
 3+32
 838
 419

516
 450
 .66

504
 +38
 86
 65
 21

524
 159
 65

28267
 14233

255.07
 53
 255.60
 7.70
 58

1598
 208
 17.35
 -3.69
 13.66
 82
 14.88
 2.55
 17.43
 2.53
 19.96
 2.20
 22.16

Please Return to
 City of San Diego Water Dept.
 Room 903 Civic Center

254.16
 10.26
 243.90
 62

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.
 Roadway 16 feet wide. Side Slopes 1 on 1 1/2
 For Single Track Embankment. 33.50

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.4	0
1	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.9	1
2	11.0	11.2	11.3	11.5	11.6	11.8	11.9	12.1	12.2	12.4	2
3	12.5	12.7	12.8	13.0	13.1	13.3	13.4	13.6	13.7	13.9	3
4	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.1	15.2	15.4	4
5	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.6	16.7	16.9	5
6	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.1	18.2	18.4	6
7	18.5	18.7	18.8	19.0	19.1	19.3	19.4	19.6	19.7	19.9	7
8	20.0	20.2	20.3	20.5	20.6	20.8	20.9	21.1	21.2	21.4	8
9	21.5	21.7	21.8	22.0	22.1	22.3	22.4	22.6	22.7	22.9	9
10	23.0	23.2	23.3	23.5	23.6	23.8	23.9	24.1	24.2	24.4	10
11	24.5	24.7	24.8	25.0	25.1	25.3	25.4	25.6	25.7	25.9	11
12	26.0	26.2	26.3	26.5	26.6	26.8	26.9	27.1	27.2	27.4	12
13	27.5	27.7	27.8	28.0	28.1	28.3	28.4	28.6	28.7	28.9	13
14	29.0	29.2	29.3	29.5	29.6	29.8	29.9	30.1	30.2	30.4	14
15	30.5	30.7	30.8	31.0	31.1	31.3	31.4	31.6	31.7	31.9	15
16	32.0	32.2	32.3	32.5	32.6	32.8	32.9	33.1	33.2	33.4	16
17	33.5	33.7	33.8	34.0	34.1	34.3	34.4	34.6	34.7	34.9	17
18	35.0	35.2	35.3	35.5	35.6	35.8	35.9	36.1	36.2	36.4	18
19	36.5	36.7	36.8	37.0	37.1	37.3	37.4	37.6	37.7	37.9	19
20	38.0	38.2	38.3	38.5	38.6	38.8	38.9	39.1	39.2	39.4	20
21	39.5	39.7	39.8	40.0	40.1	40.3	40.4	40.6	40.7	40.9	21
22	41.0	41.2	41.3	41.5	41.6	41.8	41.9	42.1	42.2	42.4	22
23	42.5	42.7	42.8	43.0	43.1	43.3	43.4	43.6	43.7	43.9	23
24	44.0	44.2	44.3	44.5	44.6	44.8	44.9	45.1	45.2	45.4	24
25	45.5	45.7	45.8	46.0	46.1	46.3	46.4	46.6	46.7	46.9	25
26	47.0	47.2	47.3	47.5	47.6	47.8	47.9	48.1	48.2	48.4	26
27	48.5	48.7	48.8	49.0	49.1	49.3	49.4	49.6	49.7	49.9	27
28	50.0	50.2	50.3	50.5	50.6	50.8	50.9	51.1	51.2	51.4	28
29	51.5	51.7	51.8	52.0	52.1	52.3	52.4	52.6	52.7	52.9	29
30	53.0	53.2	53.3	53.5	53.6	53.8	53.9	54.1	54.2	54.4	30
31	54.5	54.7	54.8	55.0	55.1	55.3	55.4	55.6	55.7	55.9	31
32	56.0	56.2	56.3	56.5	56.6	56.8	56.9	57.1	57.2	57.4	32
33	57.5	57.7	57.8	58.0	58.1	58.3	58.4	58.6	58.7	58.9	33
34	59.0	59.2	59.3	59.5	59.6	59.8	59.9	60.1	60.2	60.4	34
35	60.5	60.7	60.8	61.0	61.1	61.3	61.4	61.6	61.7	61.9	35
36	62.0	62.2	62.3	62.5	62.6	62.8	62.9	63.1	63.2	63.4	36
37	63.5	63.7	63.8	64.0	64.1	64.3	64.4	64.6	64.7	64.9	37
38	65.0	65.2	65.3	65.5	65.6	65.8	65.9	66.1	66.2	66.4	38
39	66.5	66.7	66.8	67.0	67.1	67.3	67.4	67.6	67.7	67.9	39
40	68.0	68.2	68.3	68.5	68.6	68.8	68.9	69.1	69.2	69.4	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 41.9. For same slopes but other widths of roadbed correct above figures by one-half difference in width of roadbed; thus in example above for 20 ft. roadbed distance will be 41.9 + (20-16) ÷ 2 or 2 ft. added to 41.9 = 43.9. For slopes of 1 on 1 see inside of front cover.