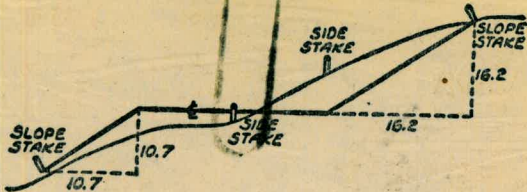


W

869



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING
SLOPE 1 TO 1. ROADWAY OF ANY WIDTH

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.00	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0
1	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	1
2	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	2
3	3.00	3.10	3.20	3.30	3.40	3.50	3.60	3.70	3.80	3.90	3
4	4.00	4.10	4.20	4.30	4.40	4.50	4.60	4.70	4.80	4.90	4
5	5.00	5.10	5.20	5.30	5.40	5.50	5.60	5.70	5.80	5.90	5
6	6.00	6.10	6.20	6.30	6.40	6.50	6.60	6.70	6.80	6.90	6
7	7.00	7.10	7.20	7.30	7.40	7.50	7.60	7.70	7.80	7.90	7
8	8.00	8.10	8.20	8.30	8.40	8.50	8.60	8.70	8.80	8.90	8
9	9.00	9.10	9.20	9.30	9.40	9.50	9.60	9.70	9.80	9.90	9
10	10.00	10.10	10.20	10.30	10.40	10.50	10.60	10.70	10.80	10.90	10
11	11.00	11.10	11.20	11.30	11.40	11.50	11.60	11.70	11.80	11.90	11
12	12.00	12.10	12.20	12.30	12.40	12.50	12.60	12.70	12.80	12.90	12
13	13.00	13.10	13.20	13.30	13.40	13.50	13.60	13.70	13.80	13.90	13
14	14.00	14.10	14.20	14.30	14.40	14.50	14.60	14.70	14.80	14.90	14
15	15.00	15.10	15.20	15.30	15.40	15.50	15.60	15.70	15.80	15.90	15
16	16.00	16.10	16.20	16.30	16.40	16.50	16.60	16.70	16.80	16.90	16
17	17.00	17.10	17.20	17.30	17.40	17.50	17.60	17.70	17.80	17.90	17
18	18.00	18.10	18.20	18.30	18.40	18.50	18.60	18.70	18.80	18.90	18
19	19.00	19.10	19.20	19.30	19.40	19.50	19.60	19.70	19.80	19.90	19
20	20.00	20.10	20.20	20.30	20.40	20.50	20.60	20.70	20.80	20.90	20
21	21.00	21.10	21.20	21.30	21.40	21.50	21.60	21.70	21.80	21.90	21
22	22.00	22.10	22.20	22.30	22.40	22.50	22.60	22.70	22.80	22.90	22
23	23.00	23.10	23.20	23.30	23.40	23.50	23.60	23.70	23.80	23.90	23
24	24.00	24.10	24.20	24.30	24.40	24.50	24.60	24.70	24.80	24.90	24
25	25.00	25.10	25.20	25.30	25.40	25.50	25.60	25.70	25.80	25.90	25
26	26.00	26.10	26.20	26.30	26.40	26.50	26.60	26.70	26.80	26.90	26
27	27.00	27.10	27.20	27.30	27.40	27.50	27.60	27.70	27.80	27.90	27
28	28.00	28.10	28.20	28.30	28.40	28.50	28.60	28.70	28.80	28.90	28
29	29.00	29.10	29.20	29.30	29.40	29.50	29.60	29.70	29.80	29.90	29
30	30.00	30.10	30.20	30.30	30.40	30.50	30.60	30.70	30.80	30.90	30
31	31.00	31.10	31.20	31.30	31.40	31.50	31.60	31.70	31.80	31.90	31
32	32.00	32.10	32.20	32.30	32.40	32.50	32.60	32.70	32.80	32.90	32
33	33.00	33.10	33.20	33.30	33.40	33.50	33.60	33.70	33.80	33.90	33
34	34.00	34.10	34.20	34.30	34.40	34.50	34.60	34.70	34.80	34.90	34
35	35.00	35.10	35.20	35.30	35.40	35.50	35.60	35.70	35.80	35.90	35
36	36.00	36.10	36.20	36.30	36.40	36.50	36.60	36.70	36.80	36.90	36
37	37.00	37.10	37.20	37.30	37.40	37.50	37.60	37.70	37.80	37.90	37
38	38.00	38.10	38.20	38.30	38.40	38.50	38.60	38.70	38.80	38.90	38
39	39.00	39.10	39.20	39.30	39.40	39.50	39.60	39.70	39.80	39.90	39
40	40.00	40.10	40.20	40.30	40.40	40.50	40.60	40.70	40.80	40.90	40
41	41.00	41.10	41.20	41.30	41.40	41.50	41.60	41.70	41.80	41.90	41
42	42.00	42.10	42.20	42.30	42.40	42.50	42.60	42.70	42.80	42.90	42
43	43.00	43.10	43.20	43.30	43.40	43.50	43.60	43.70	43.80	43.90	43
44	44.00	44.10	44.20	44.30	44.40	44.50	44.60	44.70	44.80	44.90	44
45	45.00	45.10	45.20	45.30	45.40	45.50	45.60	45.70	45.80	45.90	45
46	46.00	46.10	46.20	46.30	46.40	46.50	46.60	46.70	46.80	46.90	46
47	47.00	47.10	47.20	47.30	47.40	47.50	47.60	47.70	47.80	47.90	47
48	48.00	48.10	48.20	48.30	48.40	48.50	48.60	48.70	48.80	48.90	48
49	49.00	49.10	49.20	49.30	49.40	49.50	49.60	49.70	49.80	49.90	49
50	50.00	50.10	50.20	50.30	50.40	50.50	50.60	50.70	50.80	50.90	50

Distance of slope stake from side or shoulder stake for any width roadway, slope 1 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 from side stake to slope stake. If ground is not level estimate the difference in elevation between the side stake and slope stake, lower target by this amount if cut, elevate if fill. Add this amount to cut or fill and find distance in table. Set up rod at this point, and line of sight should cut target. If it does not make the slight adjustment necessary.

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

TABLE XIII—CORRECTIONS FOR TANGENTS AND EXTERNALS

These corrections are to be added to the approximate values, found by dividing the tangent, or external, for a 1° curve (Table VIII) by the degree of curve, in order to obtain the true tangents, or externals. Intermediate values may be obtained by interpolation.

FOR TANGENTS ADD

Central Angle	DEGREE OF CURVE													
	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°
10°	.03	.06	.09	.13	.16	.19	.22	.25	.28	.31	.34	.38	.42	.46
15°	.04	.10	.14	.19	.24	.29	.34	.39	.45	.51	.53	.58	.63	.68
20°	.06	.13	.19	.26	.32	.39	.45	.51	.58	.65	.72	.79	.84	.90
25°	.08	.16	.24	.33	.40	.49	.58	.67	.75	.83	.90	.99	1.06	1.14
30°	.10	.19	.29	.39	.49	.59	.69	.79	.89	.99	1.09	1.20	1.29	1.39
35°	.11	.22	.34	.47	.58	.69	.79	.81	.92	1.04	1.29	1.42	1.54	1.66
40°	.13	.26	.40	.53	.67	.80	.93	1.06	1.20	1.34	1.49	1.64	1.79	1.94
45°	.15	.30	.44	.60	.76	.91	1.06	1.21	1.37	1.52	1.70	1.87	2.04	2.21
50°	.17	.34	.51	.68	.85	1.02	1.19	1.36	1.54	1.72	1.91	2.10	2.29	2.48
55°	.19	.38	.57	.76	.95	1.14	1.32	1.52	1.72	1.92	2.14	2.35	2.56	2.77
60°	.21	.42	.63	.84	1.05	1.27	1.49	1.71	1.94	2.17	2.38	2.60	2.83	3.07
65°	.23	.46	.69	.93	1.16	1.40	1.64	1.88	2.13	2.38	2.63	2.88	3.13	3.39
70°	.25	.51	.76	1.02	1.28	1.54	1.80	2.06	2.33	2.60	2.88	3.16	3.44	3.72
75°	.27	.56	.83	1.12	1.40	1.69	1.98	2.27	2.57	2.87	3.16	3.47	3.78	4.09
80°	.30	.61	.91	1.22	1.53	1.84	2.15	2.46	2.78	3.10	3.44	3.78	4.12	4.46
85°	.33	.66	1.00	1.33	1.68	2.02	2.36	2.70	3.05	3.40	3.77	4.14	4.53	4.89
90°	.36	.72	1.09	1.45	1.83	2.20	2.57	2.94	3.32	3.70	4.10	4.50	4.91	5.32
95°	.39	.79	1.19	1.55	2.00	2.40	2.80	3.20	3.61	4.02	4.40	4.98	5.38	5.83
100°	.43	.86	1.30	1.74	2.18	2.62	3.06	3.50	3.95	4.40	4.88	5.37	5.85	6.34
110°	.51	1.03	1.56	2.08	2.61	3.14	3.67	4.21	4.76	5.31	5.86	6.43	7.01	7.60
120°	.62	1.25	1.93	2.52	3.16	3.81	4.45	5.11	5.77	6.44	7.12	7.80	8.50	9.22

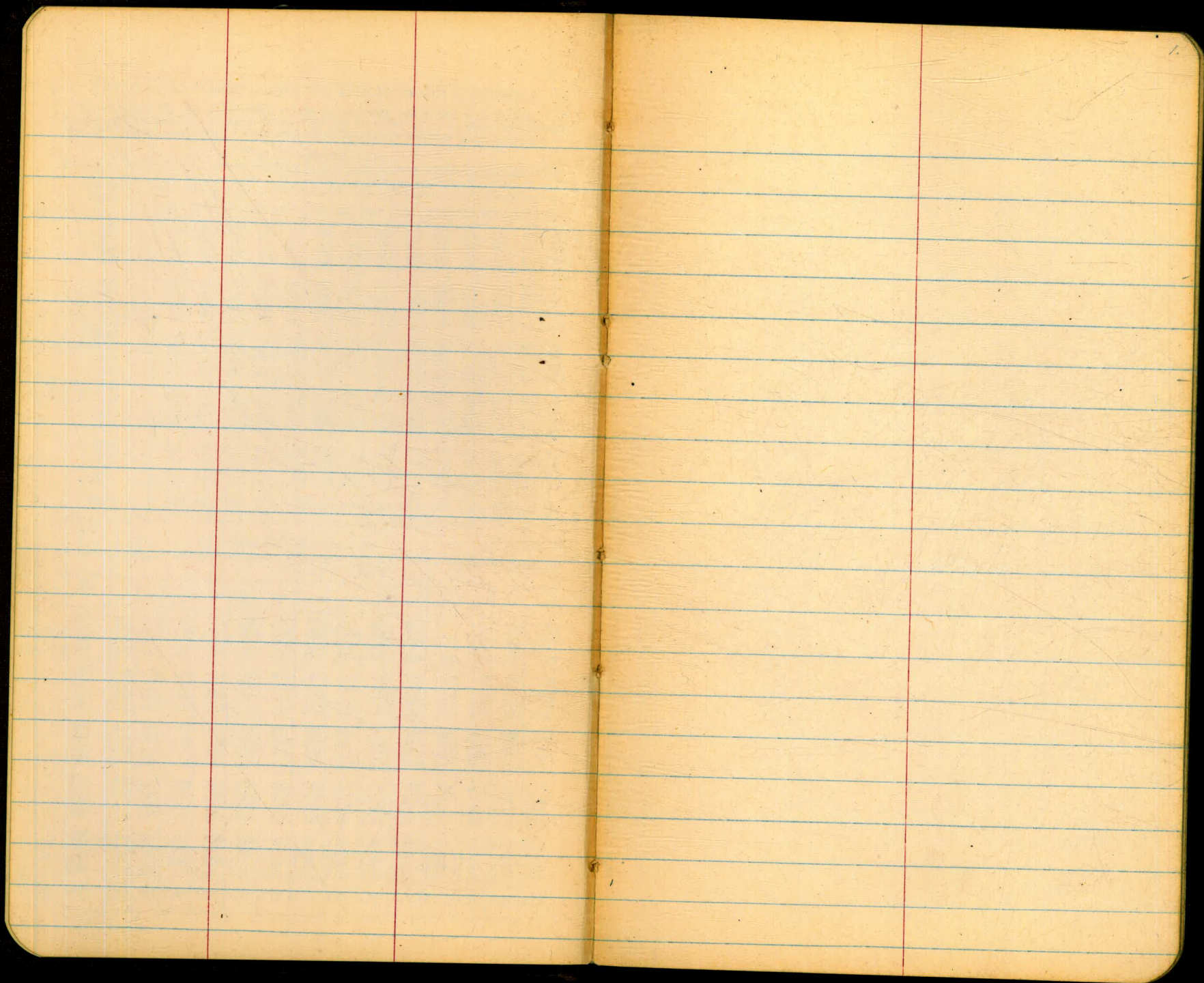
FOR EXTERNALS ADD

Central Angle	DEGREE OF CURVE													
	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°
10°	.001	.003	.004	.006	.007	.008	.009	.011	.012	.014	.015	.017	.018	.020
15°	.003	.007	.010	.014	.018	.023	.027	.029	.032	.035	.039	.043	.047	.051
20°	.006	.011	.017	.022	.028	.034	.038	.045	.051	.057	.063	.070	.076	.083
25°	.009	.018	.027	.036	.046	.056	.065	.074	.083	.093	.106	.120	.127	.135
30°	.013	.025	.038	.051	.065	.078	.090	.103	.116	.129	.149	.170	.179	.188
35°	.018	.035	.054	.072	.086	.109	.131	.153	.175	.197	.213	.230	.247	.264
40°	.023	.046	.070	.093	.117	.141	.172	.203	.234	.265	.277	.290	.315	.341
45°	.030	.060	.093	.119	.153	.184	.216	.254	.289	.325	.351	.378	.411	.445
50°	.037	.075	.116	.151	.189	.227	.266	.305	.345	.384	.425	.467	.508	.550
55°	.048	.093	.142	.188	.236	.283	.332	.381	.420	.479	.530	.582	.641	.700
60°	.056	.112	.168	.225	.283	.340	.398	.457	.516	.575	.636	.697	.774	.851
65°	.067	.135	.204	.273	.343	.412	.483	.554	.625	.697	.771	.845	.922	1.01
70°	.080	.159	.240	.321	.403	.485	.568	.652	.735	.819	.906	.994	1.08	1.17
75°	.095	.182	.266	.353	.440	.528	.618	.707	.797	.877	.971	1.07	1.18	1.39
80°	.110	.220	.332	.445	.558	.671	.787	.903	1.02	1.13	1.25	1.38	1.50	1.62
85°	.128	.259	.391	.524	.657	.790	.926	1.06	1.20	1.34	1.47	1.62	1.76	1.91
90°	.149	.299	.450	.603	.756	.910	1.07	1.22	1.38	1.54	1.70	1.87	2.03	2.20
95°	.174	.350	.522	.706	.885	1.06	1.25	1.43	1.62	1.80	1.99	2.18	2.38	2.58
100°	.200	.401	.604	.809	1.01	1.22	1.43	1.64	1.85	2.06	2.28	2.50	2.73	2.96
110°	.268	.536	.806	1.08	1.35	1.63	1.91	2.20	2.48	2.76	3.05	3.35	3.66	3.96
120°	.360	.721	1.08	1.45	1.82	2.19	2.57	2.95	3.33	3.72	4.11	4.50	4.91	5.32

Stays for Morris Canyon

INDEX

SAN VICENTE AQUEDUCT CONNECTION - Route 5-1
 SAN DIEGO AQUEDUCT - SAN VICENTE PIPE LINE;
 " " " " " " Fly LINE; 2-30
 " " " " " " & PROPOSED PIPELINE 5-80
 " " " " " " & PROFILE 9-24
 " " " " " " SV Tunnel Alice
 R2 - X-sects Portal 42-44 ✓
 " " " " " " R2 - Fly line Align 43 ✓
 ALICE
 X SAN VICENTE AQUEDUCT CONNECTION; & proposed RL 467 ✓
 49 ✓
 X San Vicente Aqueduct Connection Alternate route 50 ✓
 ALICE
 " " " " " Additional Details 51-52 ✓
 " " " " " Misc. Elous 53 ✓
 SAN VICENTE AQUEDUCT CONN. X-SECTS. of Channel 54-56 ✓
 ALICE
 N of Thorn's
 stks for meters Alley BK 11 E of Highland 77 ✓
 ALICE



JAN DIEGO AQUEDUCT -
 - SAN VICENTE PIPE LINE
 FLY-LINE Rte S-1
 .3% Hyd. Grt.

May 27 1954
 Beatty
 Sporey
 Marcell

2

STATION DEF. Δ ELEV. Mag. BRG

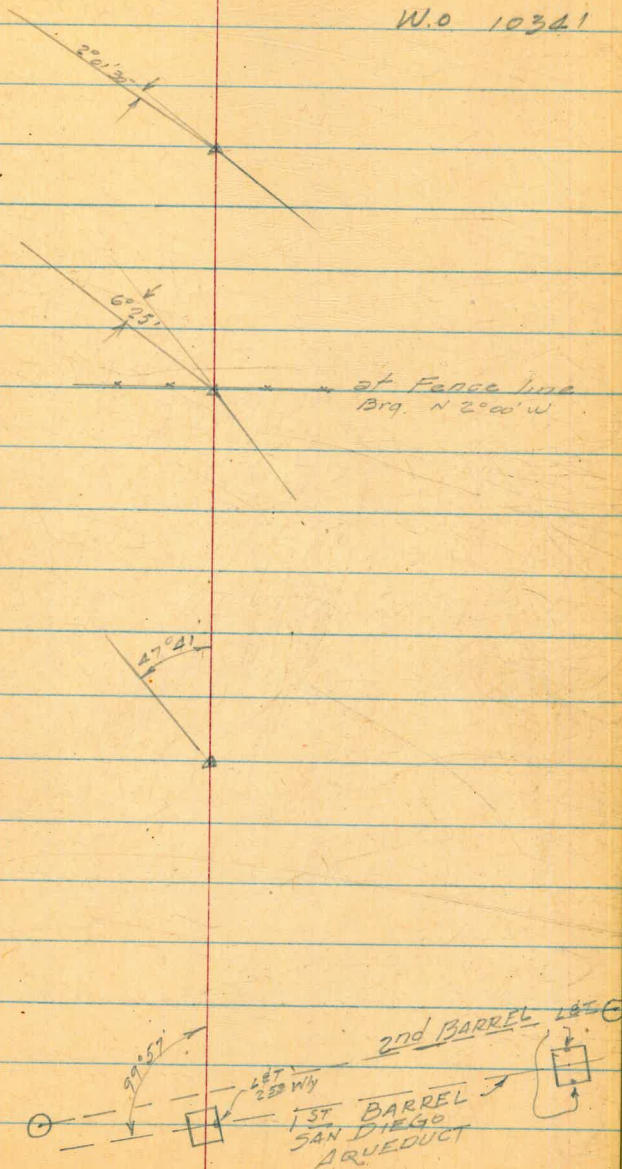
46+51 P.I. 752.95
 $\frac{13.36}{2.01} = 6.65$
 $6.65 \times .003 = 7805$
 $\Delta 6^{\circ}25' \text{ LT.}$
 563.00E

37+16 P.I. 755.76
 $\frac{13.36}{3.22} = 4.15$
 $\frac{4.15}{2.92} = 1.42$
 $1.42 \times .003 = 5966$
 $\Delta 47^{\circ}41' \text{ LT.}$
 556.30E

17+28 P.I. 761.72
 $\frac{13.36}{4.72} = 2.83$
 $\frac{2.83}{8.62} = 0.33$
 $0.33 \times .003 = 5184$
 $\Delta = 99^{\circ}57' \text{ RT.}$
 590.00E

0+00 = AV. S. 43+26 766.90
 N 71.00 E

W.O. 10341



S.D. Aqueduct - San Vicente
Fly Line
(Cont'd.)

5/27/54



58+00 P.O.T.

696.40

S 53° 00' E

37+16 P.I.

Δ 3° ± RT

755.76

ALTERNATE LINE

57+69

P.I. (STOP)

749.60

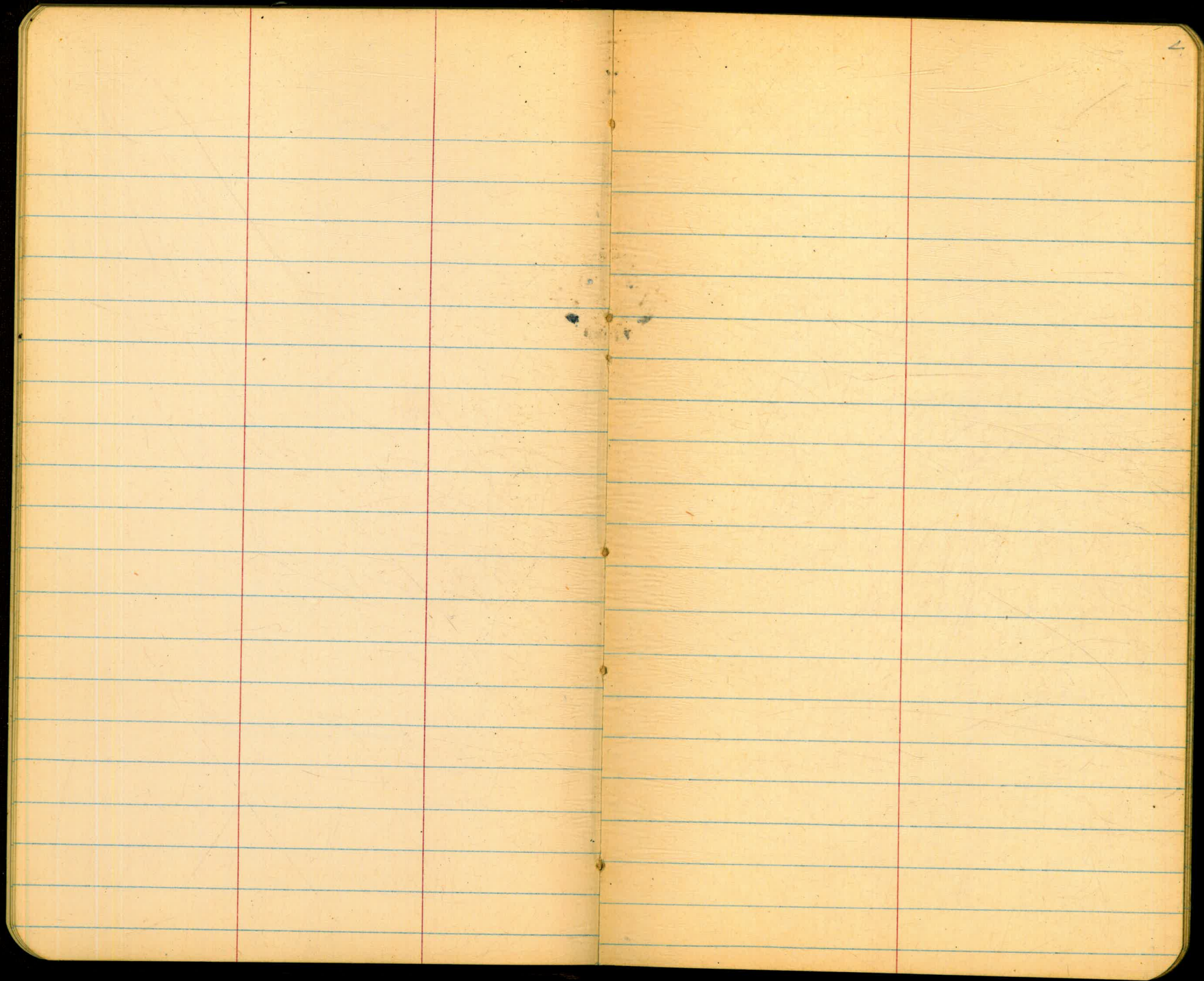
13.36

2.18

11.18 x .003 335'

Δ 2° 01' 30" LT

S 65° 00' E



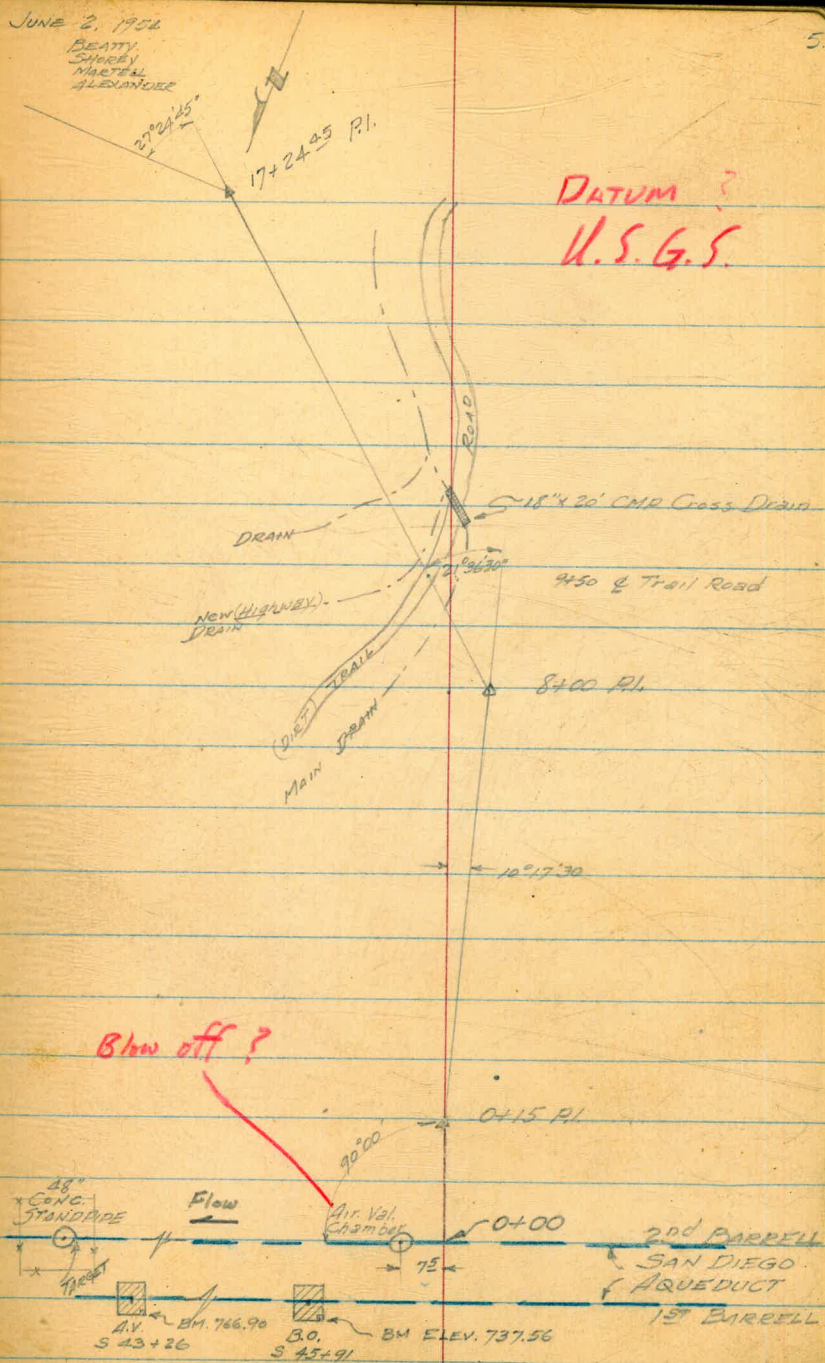
SAN DIEGO AQUEDUCT -
SAN VICENTE
& PROPOSED PIPE LINE

JUNE 2, 1954

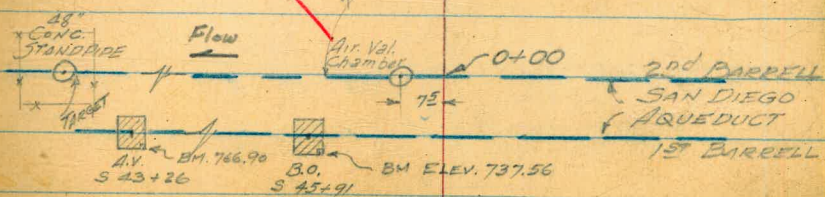
BEATTY
SHERRY
MAYHELL
ALEXANDER

5.

STATION	Δ DEF'X	Mag. BEG.
17+24.45 P.I. (17+28 FLYLINE)	27°22'45" LT	S 56°15' E
9+50	2 Trail Road	S 28°50' E
8+00 P.I.	21°36'30" LT	
7+50 P.O.T.		
0+55 P.O.T.		S 7°15' E
0+15 P.I.	10°17'30" RT	S 17°30' E
0+00		N 71°30' E



DATUM ?
U.S.G.S.



S.D. AQUEDUCT - SAN VICENTE
(Cont'd)

57+63⁹⁸ P.O.T. = (38+00 Fly Line)

49+00 P.O.T.

47+75 P.O.T.

46+00 P.O.T.

42+00 P.O.T.

37+01⁵² P.L. 2°25'15" RT
(37+16 FLY LINE)

E Highway

31+50 P.O.T. (Nail)

19+50 P.O.T.

18+33⁴⁰ P.O.T.

6/16/52

6.

55300E

6/16/52
6/3/52

55615E

SAN DIEGO AQUEDUCT
 SAN VICENTE PL
 (Cont.d)

6/16/54

7.

81+12 P.L. 1°49' RT

79+19²³ POT.

74+61¹⁸ POT.

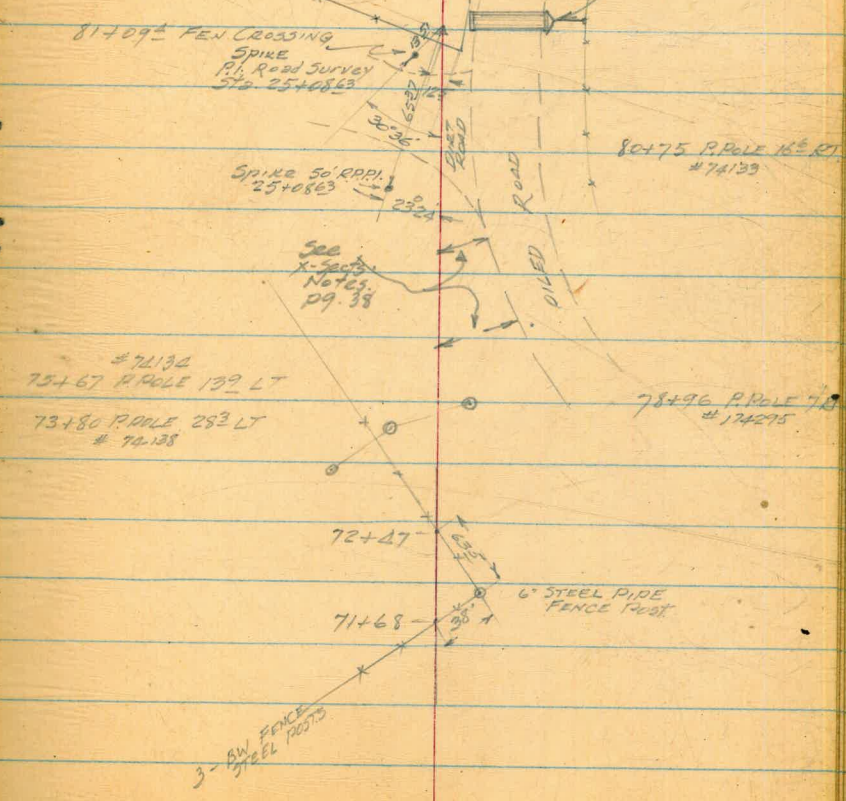
60+25 POT.

58+65 POT.

S 51°10' E

59°15'

S 53°00' E



3-4W FENCE
 STEEL POSTS

6" STEEL PIPE
 FENCE POST

80+75 P. POLE 166 RT
 # 74-139

See
 X-260
 Notes
 pg. 38

81+09 FEN CROSSING
 SPIKE
 P.L. ROAD SURVEY
 STA. 25+0863

SPIKE 50' RR.P.L.
 25+0863

74-134
 75+67 P. POLE 132 LT

73+80 P. POLE 283 LT
 # 74-138

78+96 P. POLE 718
 # 74-295

72+47

71+68

SAN DIEGO AQUEDUCT
 SAN VICENTE P.L.
 (Cont'd)

6/17/52

5.

94+51.79 POT

94+17.55

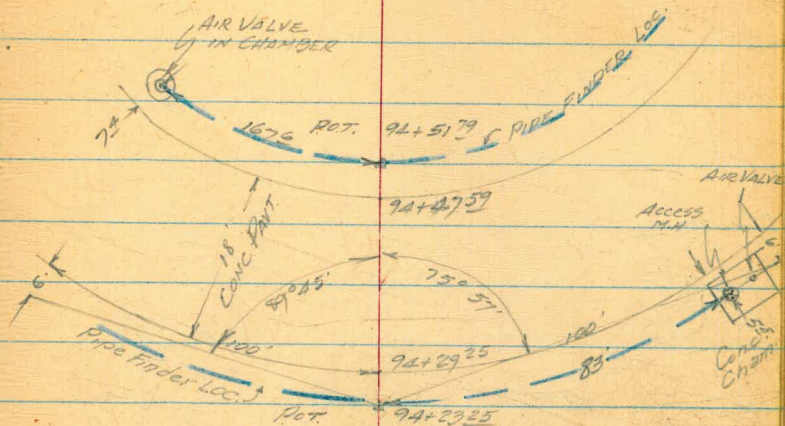
94+29.25

94+23.25 POT

} Edge Conc Part

S 51°10' E

81+12 P1



94+00 FEN CROSSING

SAN DIEGO AQUEDUCT —
 SAN VICENTE PL.
 & PROFILE
 PROPOSED PIPELINE

STATION	+B.S.	H.I.	-F.S.	ELEV.
BM.	0.66	738.22		737.56
0+00			0.6	737.6
0+15			1.7	736.5
0+26			3.4	734.8
0+29			3.0	735.2
0+53			1.9	736.3
0+55	P.O.T.		2.6	735.6
0+62			3.1	735.1
P _{rock}	0.03	720.98	13.27	720.95
0+83			1.1	723.9
1+00			2.2	722.8
1+50			4.8	720.2
1+56			5.2	719.8
1+78			11.3	713.7
P _{rock}	0.31	712.32	12.97	712.01
2+00			1.5	710.8
2+50			8.8	703.5
2+54			8.8	703.5
2+59			10.5	701.8
P _{rock}	0.31	699.74	12.92	699.20

June 17, 1952

QUITE
WARN!

BESSIE
SHOREY
MARTELL
ALEXANDER

9.

Datum?

Beit NW Cor Bro. Chamber 545+91

1/2 cu yd Boulder on & 0+83

714.0	719.2	720.2	720.5
11.0	5.8	4.8	4.5
18	10		20

712.8	713.7	713.1
12.2	11.3	6.9
15		7

710.4	710.3	710.0	709.3
1.7	1.5	1.0	4.5
10		2	12

JAN DIEGO AQUEDUCT
 SAN VICENTE P.L.
 (Cont'd)

6/17/54

10.

	699.71 ✓		
3+00		2.4	697.3 ✓
3+50		9.3	690.4 ✓
4 P rock	0.40	687.39 ✓	12.72 686.99 ✓
4+00		4.3	683.1 ✓
4+50		10.6	676.8 ✓
4 P rock	0.76	675.09 ✓	13.06 674.33 ✓
4+86		2.6	672.5 ✓
4+100		3.3	671.8 ✓
4+108		4.5	670.6 ✓
4+127		6.0	669.1 ✓
4+132		7.1	668.0 ✓
4+150		9.0	666.1 ✓
4 P rock	0.45	662.19 ✓	13.35 661.74 ✓
4+100		1.8	660.4 ✓
4+150		7.1	655.1 ✓
4+157		8.4	653.8 ✓
4+186		10.8	651.4 ✓
4+190		12.0	650.2 ✓
4+100		12.7	649.5 ✓
4 P rock	0.32	649.22 ✓	13.09 649.10 ✓

SAN DIEGO AQUEDUCT —
 SAN VICENTE PL.
 (Cont'd)

6/17/54

11

629.42 ✓

7410		2.7	646.5	✓
7450 P.O.T		7.7	641.7	✓
7462		11.2	638.2	✓
7473		12.8	636.6	✓
TP on rock	0.17	636.60	12.99	636.43 ✓
7478		2.7	633.9	✓
8400 & Pt. (P1.)		8.0	628.6	✓
TP on rock	0.59	624.09	13.10	623.50 ✓
8413		1.4	622.7	✓
8427		7.2	616.9	✓
8438		11.9	612.2	✓
TP rock	0.18	610.91	13.36	610.73 ✓
8450		2.7	608.2	✓
8454		2.5	608.4	✓
8456		5.3	605.6	✓
8463		7.9	603.0	✓
8465		8.4	602.5	✓
8469		10.9	600.0	✓
TP rock	0.07	598.59	12.79	598.12 ✓

SAN DIEGO AQUEDUCT.
 SAN VICENTE P.L.
 (Cont'd)

6/17/54

12.

598.59

8+82		3.6	595.0 ✓
8+87		9.0	589.6 ✓
8+96	} DRY CREEK	10.6	588.0 ✓
9+00		12.1	586.5 ✓
9+03		12.0	586.6 ✓
9+04		10.5	588.1 ✓
9+08		10.5	588.1 ✓
9+09		9.0	589.6 ✓
9+10		9.0	589.6 ✓
9+11		10.0	588.6 ✓
9+22		10.0	588.6 ✓
9+30		8.0	590.6 ✓
9+38	Edge Trail road	7.5	591.1 ✓
9+50		8.7	589.9 ✓
9+55		8.7	589.9 ✓
9+64	Edge Trail road	8.8	589.8 ✓
9+70		6.4	592.2 ✓
9+77		8.6	590.0 ✓
9+82	# Drainage (New) (Highway)	9.5	589.1 ✓

9+42 Inlet

584.2
 12.50
 21. RT

18" x 32' CMP.

} # Elev.

9+71 Outlet

584.0
 12.6
 36' RT

SAN DIEGO AQUEDUCT
SAN VICENTE P.L.

6/17/54

13

		598.59 ✓		
10+00			7.7	590.9 ✓
10+12			7.4	591.2 ✓
10+50			1.1	597.5 ✓
P rock	12.81	611.12 ✓	0.28	598.31 ✓
11+00			8.8	602.3 ✓
11+50			2.5	608.6 ✓
11+60			1.4	609.7 ✓
11+80			1.0	610.1 ✓
12+00			3.0	608.1 ✓
12+04	♀ Gully		4.1	607.0 ✓
12+07			3.0	608.1 ✓
12+10			1.6	607.2 609.5
P rock	13.12	623.88 ✓	0.36	610.76 ✓
12+27			9.6	614.3 ✓
P rock	12.81	635.97 ✓	0.72	623.16 ✓
12+50			11.8	622.2 624.2
12+75			3.5	632.5 ✓
P rock	12.99	648.10 ✓	0.86	635.11 ✓
13+00			7.5	640.6 ✓

JAN DIEGO AQUEDUCT ✓
 SAN VICENTE P.L.
 (Contd)

6/17/52

14

		648.10 ✓		
11 P rock	12.12	660.11 ✓	0.11	647.99 ✓
13+50			3.3	656.8 ✓
11 P rock	12.94	672.44 ✓	0.61	659.50 ✓
14+00			1.4	671.9 ✓
11 P rock	13.22	685.34 ✓	0.32	672.12 ✓
14+07			11.9	673.4 ✓
14+50			1.1	684.2 ✓
11 P rock	13.29	698.20 ✓	0.43	682.91 ✓
14+82			4.5	693.7 ✓
15+00			0.6	697.6 ✓
11 P rock	13.15	711.25 ✓	0.10	698.10 ✓
11 P rock	12.63	722.05 ✓	1.83	709.22 ✓
15+50			8.9	712.1 ✓
11 P rock	12.27	734.04 ✓	0.28	721.77 ✓
15+91			5.5	728.5 ✓
11 P rock	13.12	746.41 ✓	0.75	733.29 ✓
16+00			12.4	734.0 ✓
16+10			7.0	739.2 ✓
16+25			1.7	742.7 ✓
11 P rock	12.96	759.10 ✓	0.27	746.14 ✓

6/18/52

SAN DIEGO AQUEDUCT
 SAN VICENTE P.L.
 (Cont'd.)

6/18/54

15.

759.10 ✓

16+35		10.3	748.8 ✓	
16+50		8.0	751.1 ✓	
16+75		2.8	756.3 ✓	
Peak	10.44	769.29	0.25	758.85 ✓
16+92		9.8	759.5 ✓	
17+00		9.3	760.0 ✓	
17+24 ⁴⁵	x PT (P.L.)	7.53	761.76 = 761.72	(44.100; 792)
17+50		4.8	764.5 ✓	
17+70		4.6	764.7 ✓	
18+00		7.0	762.3 ✓	
18+20		8.8	760.5 ✓	
18+33 ⁴	POT.	10.9	758.4 ✓	
18+50		13.4	755.9 ✓	
Peak	0.39	756.41	13.27	756.02 ✓
18+58		1.6	754.8 ✓	
18+75		6.7	749.7 ✓	
19+00		12.1	744.3 ✓	
Peak	0.55	743.65	13.31	743.10 ✓
19+25		6.0	737.7 ✓	
19+40		12.3	741.2 731.4	

SAN DIEGO ARQUEDUCT CO
 SAN VICENTE PL.
 (Cont'd)

6/18/50

16.

	743.65 ✓		
Peak	0.50 731.08 ✓	13.07	730.58 ✓
19+50		2.3	728.8 ✓
19+65		8.2	722.9 ✓
19+74		10.5	720.6 ✓
Peak	0.36 718.31 ✓	13.13	717.95 ✓
19+85		2.3	716.0 ✓
20+00		2.1	711.2 ✓
20+19		11.9	706.4 ✓
Peak	0.40 705.70 ✓	13.01	705.30 ✓
20+30		2.5	703.2 ✓
20+50		9.5	696.2 ✓
Peak	0.49 692.92 ✓	13.27	692.43 ✓
20+75		5.2	687.7 ✓
Peak	0.08 680.05 ✓	12.95	679.97 ✓
21+00		2.2	677.9 ✓
Peak	0.20 667.13 ✓	13.12	666.93 ✓
21+50		4.7	662.4 ✓
Peak	0.68 654.77 ✓	13.04	652.09 ✓
21+96		6.5	648.3 ✓

SAN DIEGO ARQUEDUCT ON
SAN VICENTE P.L.

6/18/54

17.

(Contd.)

	654.77 ✓		
22+00		8.1	646.7 ✓
\bar{P}_{reach}	0.23	641.87 ✓	13.13 641.64 ✓
22+50		7.9	634.0 ✓
\bar{P}_{reach}	0.21	628.88 ✓	13.20 628.67 ✓
23+00		7.0	621.9 ✓
23+25		12.3	616.9 616.6
\bar{P}_{reach}	0.31	616.08 ✓	13.11 615.77 ✓
23+35		1.4	614.7 ✓
23+50		5.0	611.1 ✓
23+62		8.4	607.7 ✓
23+66		9.3	606.8 ✓
23+75		9.9	606.2 ✓
23+76	} Dry Gully	11.0	605.1 ✓
23+79		11.7	604.4 ✓
23+81		10.1	604.1 606.0
23+87		11.5	604.6 ✓
23+94		12.4	603.7 ✓
24+00		12.7	603.4 ✓
24+06		11.3	602.8 ✓

6/18/54

18.

SAN DIEGO AQUEDUCT CR.
SAN VICENTE P.L.

616.08 ✓

24+50		9.1	607.0	✓
24+56		8.7	607.4	✓
25+00		10.7	605.4	✓
25+23		12.1	604.0	✓
25+34		12.9	603.2	✓
25+41		12.3	603.8	✓
25+46		13.4	602.7	✓
4 ^{Peak}	0.10	602.83	12.35	602.73 ✓
25+50		0.6	602.2	✓
25+82		2.0	600.8	✓
25+90		3.8	599.0	✓
26+00		5.2	597.6	✓
26+16		6.6	596.2	✓
26+19		7.8	595.0	✓
26+50		12.8	590.0	✓
4 ^{Peak}	7.54	597.18	13.19	589.64 ✓
26+71		9.9	587.3	✓
26+72		11.4	585.8	✓
26+75	} Dry Gully	12.6	584.6	✓

SAN DIEGO AQUEDUCT C/S
 SAN VICENTE P.L.
 (Cont'd)

6/18/52

19.

26+77	} Dry Gully	597.18 ✓	12.1	585.1 ✓
26+78			11.2	586.0 ✓
26+88			11.3	585.9 ✓
27+00			10.7	586.5 ✓
27+29			6.5	590.7 ✓
27+50			2.4	594.8 ✓
TP	12.91	609.87 ✓	0.22	596.96 ✓
28+00			5.3	604.6 ✓
TP	12.67	622.48 ✓	0.08	609.79 ✓
28+50			10.5	612.0 ✓
28+65			7.9	614.6 ✓
28+80			6.2	616.3 ✓
29+00			2.7	619.6 ✓
TP	13.21	635.62 ✓	0.00	622.48 ✓
29+50			8.7	627.0 ✓
29+75			6.0	629.7 ✓
29+80			5.4	630.3 ✓
30+00			4.0	631.7 ✓
30+50			1.6	634.1 634.1

SAN DIEGO AQUEDUCT
 SAN VICENTE PL.
 (Cont'd.)

6/8/52

20.

635.69 ✓

30+80 @ PW Fence	2.1	633.6 ✓
31+00	2.5	633.2 ✓
31+27	3.5	632.2 ✓
31+36	9.5	626.2 ✓
31+39	9.0	626.7 ✓
31+45	4.6	631.1 ✓
31+48	4.2	631.5 ✓
31+50 Edge oiled ditch	4.62	631.07 ✓
31+52.5 Bottom oiled ditch	8.00	630.37 ✓
31+55 Shldr oiled road	7.42	630.95 ✓
31+69.5 4 oiled road	7.75	630.62 ✓
31+84 Shldr of oiled rd	8.61	629.76 ✓
31+85.5 Bottom oiled ditch	9.11	629.26 ✓
31+88 Edge of oiled ditch	8.45	629.92 ✓
31+91	6.2	632.2 ✓
32+00	6.4	632.0 ✓
SET TBM 10.96	6.04	632.33 ✓
32+06	11.3	632.01

627.16 E Elev

11.21

31+40 outlet

4.7 LT

36" x 20" CMP

628.44 E Elev

9.93

31+69.5 Inlet

36" LT

Chis 17 in inside Cor. Cube H/d wall.



SAN DIEGO AQUEDUCT vs
 SAN VICENTE PL
 (Cont'd)

4/18/54

21

643.29 ✓

32+13		10.4	632.9 ✓
32+26		8.1	635.2 ✓
32+50		2.6	640.7 ✓
32+59 @ B.W. FENCE		0.8	642.5 ✓
1 P. ROCK	13.16	656.22	0.23 643.06 ✓
32+76		11.2	645.0 ↓
32+89		7.0	649.2 ✓
32+93		6.8	647.4 ✓
33+00		4.6	651.6 ✓
1 P. ROCK	12.82	668.41	0.63 655.59 ✓
33+50		3.6	664.8 ✓
1 P. ROCK	13.00	681.07 ✓	0.34 668.07 ✓
33+67		11.1	670.0 ↓
33+73		7.7	673.4 ✓
33+87		2.2	678.9 ↓
33+94		0.3	680.8 ✓
1 P. ROCK	12.63	693.36 ✓	0.34 680.73 ✓
34+00		10.5	682.9 ↓
1 P. ROCK	12.92	706.25 ✓	0.03 693.33 ✓

SAN DIEGO AQUEDUCT
SAN VICENTE P.L.
(Cont'd)

6/18/54

22

706.25

34+35		9.5	696.8	↓	
34+50		3.8	702.5	✓	
TP Deck	12.93	718.93	0.25	706.00	↓
34+85		4.6	713 714.3		
35+00		0.4	718.5	✓	
TP Deck	13.16	732.08	0.01	718.92	↓
35+20		6.3	725.8	↓	
TP Deck	13.33	745.20	0.21	731.87	↓
35+50		12.3	732.9	↓	
35+65		7.8	737.4	↓	
35+75		3.8	741.4	↓	
TP	13.34	758.46	0.08	745.12	↓
36+00		12.9	745.6	↓	
36+22		8.1	750.4	↓	
36+50		5.1	753.4	↓	
37+00		2.5	756.0	↓	
TP ^{PI. HUB.}	13.10	768.88	2.68	755.78 (755.76)	fly line pp. 3)
37+01.52	x PT (PI.)				
TP	8.05	776.81	0.12	768.76	✓
SET TBM	1.73	776.58	1.96	774.85	✓

on 2" 11P E 1/4 Cor SEC 35
150' ± LT 37+00 P.I.

RE 32
1/4 Cor 35 | 36
1947

SAN DIEGO AQUEDUCT
 SAN VICENTE PL.
 (Cont'd)

7/18/54

23

	776.58 ✓		
H _{Peak}	0.62 763.95 ✓	13.25	763.33 ✓
CK. H. P. HUB	0.55 756.33 ✓	8.17	755.78 = 755.78 ✓
37+24		3.6	752.7 ✓
37+50		10.2	746.1 ✓
37+58		13.3	743.0 ✓
H _{Peak}	0.24 743.44 ✓	13.13	743.20 ✓
37+68		2.5	740.9 ✓
37+86		8.3	735.1 ✓
H _{Peak}	0.29 730.74 ✓	12.99	730.45 ✓
38+00 POT.		1.2	729.5 ✓
38+09		5.1	725.6 ✓
38+17		9.5	721.2 ✓
H _{Peak}	0.37 718.05 ✓	13.06	717.68 ✓
38+50		12.0	706.1 ✓
H _{Peak}	0.15 706.11 ✓	12.09	705.96 ✓
38+62		6.0	700.1 ✓
38+78		12.0	694.1 ✓
H _{Peak}	0.33 693.37 ✓	13.07	693.04 ✓
38+92		7.1	686.3 ✓

(27+01.93 PL.)

SAN DIEGO AQUEDUCT
SAN VICENTE PL.
(Cont'd)

7/18/52

24

		693.37 ✓		
Prick	0.27	680.38 ✓	13.26	680.11 ✓
39+00			0.4	680.0 ✓
39+13			8.6	671.8 ✓
Prick	0.28	667.49 ✓	13.17	667.21 ✓
39+35			1.9	665.6 ✓
39+00			4.2	663.3 ✓
39+06	} Dry Gully		9.1	658.4 ✓
39+50			9.0	658.5 ✓
39+35			7.6	659.9 ✓
39+69			5.5	662.0 ✓
39+90			7.1	660.8 ✓
39+95			5.6	661.9 ✓
40+00			4.1	663.4 ✓
Prick	13.28	680.63 ✓	0.14	667.35 ✓
40+22			10.1	670.5 ✓
40+40			6.4	674.2 ✓
40+50			5.5	675.1 ✓
40+90			0.6	680.0 ✓
Prick	5.35	685.41 ✓	0.57	680.06 ✓

SAN DIEGO AQUEDUCT
 SAN VICENTE P.L.
 (Cont'd)

6/18/52

25

	685.41		3.5	681.9 ✓
41+00			0.8	684.6 ✓
41+33			1.5	683.9 ✓
41+50			2.0	683.4 ✓
41+25 ?+75			4.5	680.9 ✓
42+00			5.2	680.2 ✓
42+12			5.5	679.9 ✓
42+24			7.3	678.1 ✓
42+35			8.4	677.0 ✓
42+50			0.41	672.52 ✓
11 Deck	0.41	13.30		672.11 ✓
42+90			2.8	669.7 ✓
43+00			5.7	666.8 ✓
43+18			10.8	661.7 ✓
11 Deck	0.23	11.01		661.51 ✓
43+18			0.01	661.73 *
3ET 11 Deck			7.2	654.5 ✓
43+29			2.2	659.5 ✓
<u>44+18</u>			5.5	656.2 ✓
<u>44+10</u>			10.8	650.9 ✓
<u>44+00</u>			0.12	648.61 ✓
11	0.12	13.25		648.29 ✓

6/21/52

Note Stations underlined
 are correct! They
 were taken simultaneously
 with regular station
 progression #

SAN DIEGO AQUEDUCT
SAN VICENTE P.L.
Cont'd.

6/21/52

26

648.61 ✓

43+50		29	645.7 ✓
43+67		72	641.4 ✓
43+75	} Dry Gully	83	640.3 ✓
43+78		90	639.6 ✓
43+82		73	641.3 ✓
9. Dec	12.96	672.69 ✓	661.73 * from pg. 25
44+37		71	667.6 ✓
44+50		28	671.9 ✓
9. Dec	13.17	687.58	0.28 674.41 ✓
44+75		9.8	677.8 ✓
45+00		5.2	682.4 ✓
45+30		2.3	685.3 ✓
45+47		0.9	686.7 ✓
45+50		1.2	687.4 x 686.4
9. Dec	2.62	687.34 ✓	2.86 684.72 ✓
46+00	P.O.T.	1.8	686.5 1685.5
46+25		1.2	686.1 ✓
46+50		2.8	684.5 ✓
46+75		1.9	685.4 ✓

6/21/54

27.

SAN DIEGO AQUEDUCT
SAN VICENTE P.L.
(Cont'd)

687.32

47+00		2.4	684.9 ✓
47+25		3.0	683.9 ✓
47+50		5.1	682.2 ✓
47+75 POT		8.4	678.9 ✓
48+00		13.2	674.1 ✓
48+00	0.35	12.73	674.96 ✓ 674.61 ✓
48+25		6.7	667 668.3
48+25	0.26	13.29	661.93 ✓ 661.67 ✓
48+50		1.08	660.85 *
48+50		0.7	661.2 ✓
48+69		7.4	650.5 ✓
<u>56+00</u>		1.9	660.0 ✓
<u>55+90</u>		5.0	656.9 ✓
48+90	0.36	13.15	649.14 ✓ 648.78 ✓
48+90		4.8	644.3 ✓
49+00 POT		6.9	642.2 ✓
49+12		12.1	637.0 ✓
<u>55+63</u>		2.5	646.6 ✓
<u>55+50</u>		7.4	641.7 ✓

(ILT 56401.)

NOTE: Stations underlined are
Correct! They were taken
simultaneously with stations
in regular progression. ~~no~~

SAN DIEGO ARQUEDUCT ^{LN}
 SAN VICENTE PL
 (Cont'd)

6/21/54

28.

	649.12 ✓			
<u>55+40</u>		10.9	638.2 ✓	
W. Deck	0.40	636.33 ✓	13.21	635.93 ✓
49+50		12.9	623.4 ✓	
<u>55+15</u>		7.0	629.3 ✓	
<u>55+00</u>		12.6	623.7 ✓	
W. Deck	0.59	623.58	13.34	622.99 ✓
49+53		1.3	622.3 ✓	
49+60		5.0	618.6 ✓	
49+72		10.5	613.1 ✓	
<u>54+85</u>		7.2	616.4 ✓	
W. Deck	0.32	610.67 ✓	13.23	610.35 ✓
49+82		1.5	609.2 ✓	
50+00		9.2	601.5 ✓	
<u>54+50</u>		8.5	602.2 ✓	
W. Deck	0.11	597.91 ✓	12.87	597.80 ✓
<u>54+35</u>		1.5	596.4 ✓	
<u>54+06</u>		11.4	586.5 ✓	
<u>54+04</u>		13.0	584.9 ✓	
W. Deck	0.14	584.97 ✓	13.08	584.83 ✓

see note previous page.

JAN DIEGO AQUEDUCT
SAN VICENTE P.L.
(Cont'd)

6/21/54

29.

582.97 ✓

50+50 4.5 580.5 ✓

50+71 12.7 572.3 ✓

54+00 1.0 580.0 ✓

53+95 1.6 583.4 ✓

53+90 3.5 581.5 ✓

53+70 Dry gully 8.6 576.4 ✓

53+65 8.1 576.9 ✓

53+50 10.0 575.0 ✓

Peak 0.20 571.99 13.18 571.79 ✓

50+84 6.4 565.6 ✓

51+00 12.2 559.8 ✓

53+00 1.3 570.7 ✓

52+75 3.6 568.4 ✓

52+50 8.3 563.7 ✓

52+37 9.9 562.1 ✓

Peak 0.22 559.02 13.19 558.80 ✓

51+05 2.3 556.7 ✓

51+07 4.3 554.7 ✓

51+11 6.2 552.8 ✓

SAN DIEGO AQUEDUCT
 SAN VICENTE P.L.
 (Contd.)

6/2/52

30.

559.02 ✓

5	51+15		8.0	551.0 ✓
3	51+17		11.1	547.9 ✓
2	51+22		12.1	546.9 ✓
2	51+24		12.7	546.3 ✓
2	51+26		12.2	546.8 ✓
2	51+28	} Dry Gullys	10.6	548.4 ✓
2	51+33		10.2	548.8 ✓
2	51+40		8.9	550.1 ✓
4	51+50		9.1	549.9 ✓
2	51+56		8.8	550.2 ✓
2	51+58		9.2	549.8 ✓
2	51+64		10.6	548.4 ✓
2	51+73		11.9	547.1 ✓
2	51+88		7.0	552.0 ✓
2	52+00		4.2	554.8 ✓
1	527 P rock		4.58	552.44 ✓
2	PD	12.88	673.73 ✓	660.85 *
2	56+22		5.8	667.9 ✓
2	PD rock	12.02	685.73 ✓	0.02 673.71 ✓

(4' at 51+95)

(from pg 27)

JAN DIEGO AQUEDUCT
 SAN VINCENT PL.

Cont'd.

685.73 ✓

6/21/54

31.

56+32		11.9	673.8	✓	
56+44	} TRAIL ROAD	13.5	672.2	✓	
56+47		12.9	672.8	✓	
56+50		11.3	674.4	✓	
56+54		8.4	677.3	✓	
7/ Perch	12.92	698.62	0.03	685.70	✓
56+75		12.2	684.4	✓	
57+00		7.8	690.8	✓	
57+25		3.4	695.2	✓	
57+37		2.2	696.4	✓	
57 57+50		1.8	696.8	✓	
7/ ^{P.R. 4/10} 57+6398	POT		2.06	696.56 = 696.4	(Fly 100 pg. 2)
	0.74	697.30			
57+80		2.8	694.5	✓	
58+00		6.8	690.5	✓	
58+10		9.0	688.3	✓	
7/ Perch	0.54	684.73	13.11	684.19	✓
58+50		10.6	674.1	✓	
7/ Perch	0.26	672.15	12.84	671.89	✓
58+65	POT		3.9	668.2	✓

SAN DIEGO AQUEDUCT
SAN VICENTE P.L.
(Cont'd)

6/21/54

32

672.15

58+75		7.2	665.0 ✓
58+80		8.9	663.3 ✓
H. Perch	0.22	659.51 ✓	12.86 659.29 ✓
59+00		5.2	654.3 ✓
59+20		12.3	647.2 ✓
H. Perch	0.79	647.16	13.14 646.37 ✓
59+34		8.3	638.9 ✓
59+42		13.0	634.2 ✓
H. Perch	0.38	634.26	13.28 633.88 ✓
59+50		3.0	631.3 ✓
H. Perch	0.25	621.43 ✓	13.08 621.18 ✓
60+00		11.1	610.3 ✓
H. Perch	0.33	608.77 ✓	12.99 608.44 ✓
60+12		4.2	604.6 ✓
60+25		9.9	598.9 ✓
H. Perch	0.32	596.19 ✓	12.90 595.87 ✓
60+36		1.4	594.8 ✓
60+50		7.6	588.6 ✓
H. Perch	0.45	583.28	13.36 582.83 ✓

JAN DIEGO AQUEDUCT
 JAN VICENTE P.L.
 (Cont'd)

6/21/34

32

583.28 ✓

60+75		5.1	578.2 ✓
7 Deck	0.35	570.93	12.70 570.58 ✓
61+00		1.6	569.3 ✓
61+27		11.6	559.3 ✓
7 Deck	0.48	558.30	13.11 557.82 ✓
61+50		5.5	552.8 ✓
61+65		9.6	548.7 ✓
7 Deck	0.22	545.35	13.17 545.13 ✓
61+74		1.0	544.4 ✓
61+81	Eroded Rotten Granite	3.3	542.1 ✓
61+82		5.1	540.3 ✓
61+825		50	540.4 ✓
61+84		3.2	542.2 ✓
62+00		5.9	539.5 ✓
7 Deck	0.16	532.23	13.28 532.07 ✓
62+50		1.4	530.8 ✓
62+75		6.3	525.9 ✓
62+80		7.4	524.8 ✓
63+00		8.9	523.3 ✓
63+17		10.7	521.5 ✓

61+74 →

Road

TRAIL

dirt rock

63+00 →

JAN DIEGO AQUEDUCT
 JAN VICENTE P.L.
 (Cont'd.)

6/21/52

32

532.23

63+25		12.5	519.7 ✓
TP rock	0.21	519.43 ✓	13.01 519.22 ✓
63+50		2.4	517.0 ✓
63+70		4.2	515.2 ✓
63+89		7.1	512.3 ✓
64+00		8.1	511.3 ✓
TP rock	0.24	506.44 ✓	13.23 506.20 ✓
64+50		0.6	505.8 ✓
64+61		2.2	504.2 ✓
64+71		2.9	503.5 ✓
65+00		7.8	498.6 ✓
65+10		9.9	496.5 ✓
65+14		9.5	496.9 ✓
65+20		10.8	495.6 ✓
65+25		10.0	496.4 ✓
65+34		10.1	496.3 ✓
65+50		11.9	494.5 ✓
TP rock	0.44	493.57 ✓	13.31 493.13 ✓
65+75		1.6	492.01 ✓

6/21/56

34

SAN DIEGO AQUEDUCT
SAN VICENTE P.L.
(Cont'd)

493.57 ✓

66+00		3.2	490.4 ✓
66+15		4.8	488.8 ✓
66+30		5.1	488.5 ✓
66+50		6.8	486.8 ✓
67+00		11.6	482.0 ✓
7 th Pipe	0.18	480.75	13.00 480.57 ✓
67+50		3.7	477.1 ✓
68+00		10.3	470.5 ✓
7 th Pipe	0.53	468.23	13.05 467.70 ✓
68+50		3.1	465.1 ✓
69+00		6.4	461.8 ✓
69+14		7.2	461.0 ✓
69+25	} Dry Gully	8.8	459.4 ✓
69+32		8.9	459.3 ✓
69+42		8.2	460.0 ✓
69+50		8.2	460.0 ✓
69+75		8.2	460.0 ✓
69+86		9.0	459.2 ✓
70+00		9.0	459.2 ✓

SAN DIEGO AQUEDUCT ✓
JAN VICENTE P.L.
(Cont'd)

468.23 ✓

SET TBM.	0.06	468.02 ✓	0.27	467.96 ✓
70+50			7.3	460.7 ✓
71+00			5.0	462.6 ✓
71+30			4.5	463.5 ✓
71+50			5.2	462.8 ✓
71+68 @ BW FENCE			5.4	462.6 ✓
72+00			6.1	461.9 ✓
72+25			6.8	461.2 ✓
72+41			9.8	458.2 ✓
72+47 @ BW Fence			8.4	459.6 ✓
72+50			8.3	459.7 ✓
72+66			8.3	459.7 ✓
72+74			9.5	458.5 ✓
72+83			9.4	458.6 ✓
73+00			6.0	462.0 ✓
73+04			4.6	463.4 ✓
73+18			2.9	465.1 ✓
73+50			1.6	466.4 ✓
4. Deck	4.04	471.89	0.17	467.85 ✓

6/21/50

35.

Nailin Pa. Pole Co. LT 69+75 # 74136

SAN DIEGO AQUEDUCT
SAN VICENTE P.L.
(Cont'd.)

6/21/54

36

471.89

73+83	4.3	467.6 ✓
74+00	4.5	467.4 ✓
74+09	4.7	467.2 ✓
74+13	5.2	466.7 ✓
74+20	3.5	468.4 ✓
74+50	2.2	469.7 ✓
74+61 ¹⁸ POT.	2.1	469.8 ✓
75+00	5.1	466.8 ✓
75+29	7.2	464.7 ✓
75+45	12.4	459.5 ✓
75+50	12.9	459.0 ✓
75+63	10.0	461.9 ✓
75+75	9.2	462.7 ✓
76+00	10.9	461.9 X 461.0
76+05	10.7	461.2 ✓
76+12	9.3	462.6 ✓
9 Decr	0.37	459.00 13.26 458.63 ✓
76+18	0.4	458.6 ✓
76+36	4.3	454.7 ✓

SAN DIEGO AQUEDUCT
 SAN VICENTE PL.
 (Cont'd.)

6/21/54

37.

459.00

76+50	6.1	452.9	✓
76+70	11.2	447.8	✓
76+78	11.9	447.1	✓
77+00	12.2	446.8	✓
77+07	11.6	447.4	✓
77+25	13.1	445.9	✓
77+50	13.2	445.8	✓
77+73	13.2	445.8	✓
78+00	14.0	445.0	✓
78+10	14.0	445.0	✓
78+50	12.5	446.5	✓
78+71	11.2	447.8	✓
78+80	8.2	450.8	✓
78+90	7.1	451.9	✓
79+00	7.7	451.7	✓
79+10	6.6	452.4	✓
79+18	4.4	454.6	✓
79+19 ²³ P.C.	4.4	454.6	✓
Drain } Trail Road ✓	10.47	460.57	8.90 450.10 ✓

SAN DIEGO AQUEDUCT
SAN VICENTE P.L.
(Cont'd)

6/21/54

38.

	460.57 ✓		
79+50	} Trail road.	9.2	451.4 ✓
79+60		9.8	450.8 ✓
79+84		6.6	454.0 ✓
79+87		7.6	453.0 ✓
79+93		6.3	454.3 ✓
79+95		6.4	454.2 ✓
80+00		7.8	452.8 ✓
80+10		8.3	452.3 ✓
80+11		12.3	448.3 ✓
TP	154 449.31	12.80	447.77 ✓
SET TOM	2.98 449.08 ✓	2.81	446.50 ✓
80+50		3.3	446.2 ✓
80+98		3.1	446.4 ✓
81+00		3.8	445.7 ✓
81+09 ⁴	@ B.W. Fence	5.1	444.4 ✓
81+12	P.L.	5.2	444.3 ✓
81+50	(81+20 Begin Alfalfa)	5.5	444.0 ✓
82+00		5.4	444.1 ✓
82+50		5.3	444.2 ✓

459.6	457.6	451.9	451.4	449.9	446.6	446.4
10	30	8.7	9.2	10.7	12.0	14.2
10	7	2		15	25	29

Edge oiled road

458.3	455.6	452.8	448.7	446.7	446.1
2.3	5.0	7.8	12.5	13.9	14.5
10	2	2	2	25	

Edge oiled road

center & top of cattle guard curb fly end.

446.2	446.2
2.3	2.3
	2.3

Edge oiled road

SAN DIEGO AQUEDUCT
 SAN VICENTE P.L.
 (Cont'd)

6/21/54

39

449.48 ✓

7	83+00		53	444.2 ✓
7	83+50		50	444.5 ✓
7	84+00		53	444.2 ✓
7	84+50		50	444.1 ✓
7	85+00		53	444.2 ✓
7	85+50		52	444.3 ✓
8	86+00		52	444.3 ✓
8	86+50		51	444.4 ✓
8	87+00		49	444.6 ✓
7	Top grid str.	3.67	448.49	4.66 444.82 ✓
5	87+50		37	444.8 ✓
8	88+00		34	445.1 ✓
8	88+50		32	445.3 ✓
8	89+00 (End Alfalfa)		32	445.3 ✓
8	89+50		35	445.0 ✓
8	90+00		35	445.0 ✓
8	90+50		41	444.4 ✓
8	91+00		49	443.6 ✓
8	91+20		45	444.0 ✓

88+88 18' LT
 22' RT
 6x6 private
 power line
 poles

SAN DIEGO AQUEDUCT
SAN VICENTE P.L.
(Cont'd)

6/21/52

20.

448.49 ✓

91+36

5.3 443.2 ✓

91+50

5.0 443.5 ✓

92+00

5.0 443.5 ✓

92+50

5.1 443.4 ✓

92+75

4.9 443.6 ✓

92+90

5.2 443.3 ✓

93+00

4.3 444.2 ✓

93+17

5.3 443.2 ✓

93+50

5.5 443.0 ✓

93+52

5.1 443.4 ✓

93+87

4.9 443.6 ✓

94+00 @ B.W. Fence

2.8 445.7 ✓

Top of stn

11.37 457.55

2.31 446.18 ✓

94+02

11.7 445.9 ✓

94+10

6.6 451.0 ✓

94+14

3.7 453.9 ✓

94+15

3.6 454.0 ✓

94+16

4.0 453.6 ✓

94+23²⁵ @ SV PL #2

3.85 453.70 ✓

SAN DIEGO AQUEDUCT
SAN VICENTE P.L.
(Cont'd)

6/21/56

21

457.55 ✓

94+29²⁵ Edge Conc part 3.73 453.82 ✓

94+47⁵⁹ " " " 4.34 453.21 ✓

94+51⁷⁹ @ S.V. P.L. #1 4.48 453.07 ✓

SET TBM 3.65 453.90 ✓

ELY Cor. Access M.H. & AVA Chamber
83' LT 94+45

SAN DIEGO ARQUEDUCT - SAN VICENTE PIPELINE
 - R2 -
 CROSS-SECTIONS AT TUNNEL PORTAL
 (SEE SKETCH Pg. 44)

Aug. 2, 1954
 BEATH
 HOOBY
 MARTELL
 ALEXANDER

B.M. 9.41 775.07 765.66
 0+00 = Nail in Rock 10' wly T.P.
 0+10 Face of Tunnel Portal

See FB 898A
 for Final Alignment

4 ft Tunnel Portal	LEFT (N1/4)	TUNNEL	(3/4) RIGHT
773.6	773.5	769.6	764.7
15	1.6	5.5	10.36
15	13	7	7
753.1	750.0	755.7	757.0
220	251	194	181
210	199	194	177
770.3	766.7	764.0	763.2
48	82	11	11.9
15	7	7	6
771.8	769.1	766.7	764.1
233	280	284	280
182	168	165	156
769.5	768.4	762.3	753.9
56	6.2	12.8	21.2
20	17	7	6
772.9	770.7	768.1	765.9
22.2	24.4	27.0	28.3
182	175	158	154
769.9	762.3	761.4	758.9
7.2	12.5	15.7	16.2
19	8	8	6
773.1	772.1	771.4	771.4
220	270	277	29.7
180	160	154	136
767.8	767.3	767.3	767.3
22	2.7	10.2	15.2
182	185	157	150
180	175	157	150

0+20

0+30

0+40

OK B17

A.30 769.96 941 765.66

0+50

SAN DIEGO AQUEDUCT - SAN VICENTE
PIPELINE
R2
X-SECT. 5 CONT'D

8/2/54

43

0+60

769.96

P

4.34 764.24 10.06 759.90

0+70

0+80

P 2x2 HUB
190'± RT
0+70

6.54 767.78 3.00 761.24

BM? 4x4" CONC. Mon. 1/2" Iron Pin Intop.
200' RT 0+70±

1.83 765.96

0+90

OK B.M.

2.09 765.69 = 765.66

Hi Pt. on Tunnel Portal

reduced by
GFA (8-11-54)

N₁ TUNNEL S₁

768.0	764.2	760.0	758.8	759.7	754.4	757.2	759.4	760.7	761.7	764.4	766.9					
2.0	5.8	10.0	11.2	16.3	15.6	12.8	10.6	9.3	8.3	5.6	3.1					
27	16	8	6	6	8	9	12	16	25	36	48					
FEN																
			756.8	749.7	748.2	742.9	739.7	740.6	739.1	737.7	747.2	767.4	766.0			
			13.2	20.3	21.8	27.1	30.3	29.4	30.9	32.3	22.8	10.6	4.0			
			187	169	162	146	138	130	124	121	105	83	69			
764.2	762.2	758.5	757.3	753.0	753.5	754.7	757.4	758.1	759.9	761.4	763.2					
2.0	2.0	5.7	6.9	11.2	10.7	9.5	6.8	6.1	4.3	2.8	1.0					
27	17	7	6.5	6.5	7	9	11	14	25	31	25					
FEN																
		752.7	748.5	744.0	737.5	736.0	737.0	733.9	739.2	745.1	751.5	752.7	762.7			
		11.5	15.7	20.2	24.7	28.2	27.2	30.3	25.0	19.1	12.7	5.5	1.5			
		180	169	150	138	133	130	125	111	101	90	73	58			
764.2	759.8	758.1	755.0	753.3	752.8	754.0	754.9	756.7	757.4	758.5	758.6	759.6	751.1			
2.0	4.4	6.1	9.2	10.9	11.2	10.2	9.3	7.5	6.8	5.7	5.6	4.6	13.1			
28	15	8	7	6	15	7	11	13	17	25	26	44	78			
FEN																
		751.3	748.2	744.6	743.9	738.4	732.4	731.7	729.5	727.6	730.5	736.8	741.4	746.9		
		12.9	16.0	19.6	20.3	25.8	31.8	32.5	34.7	34.6	33.7	27.4	22.8	17.3		
		180	169	157	152	141	134	132	130	127	123	113	101	91		
		761.3	759.6	757.8	754.8	751.6	750.9	755.0	756.6	757.2	755.9	754.7	749.4	748.5		
		6.5	8.2	10.0	13.0	16.2	16.7	12.8	11.2	10.6	11.9	13.1	18.4	19.5		
		27	21	13	11	11	13	16	25	35	39	53	61	67		
		750.0	745.3	742.6	738.1	735.1	729.3	728.0	723.5	730.7	735.2	737.7	736.3	732.3	749.6	747.1
		17.8	22.5	25.2	29.7	32.7	38.5	39.8	39.3	37.1	32.6	34.1	31.5	29.5	24.2	20.7
		180	168	158	143	138	132	126	122	120	110	108	103	101	93	74

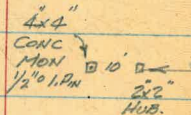
SAN DIEGO ARQUEDOCT - SAN VICENTE
 PROPOSED PIPELINE
 R2
 SKETCH SHOWING AREA X-SECTIONED

8/2/54

IV

44

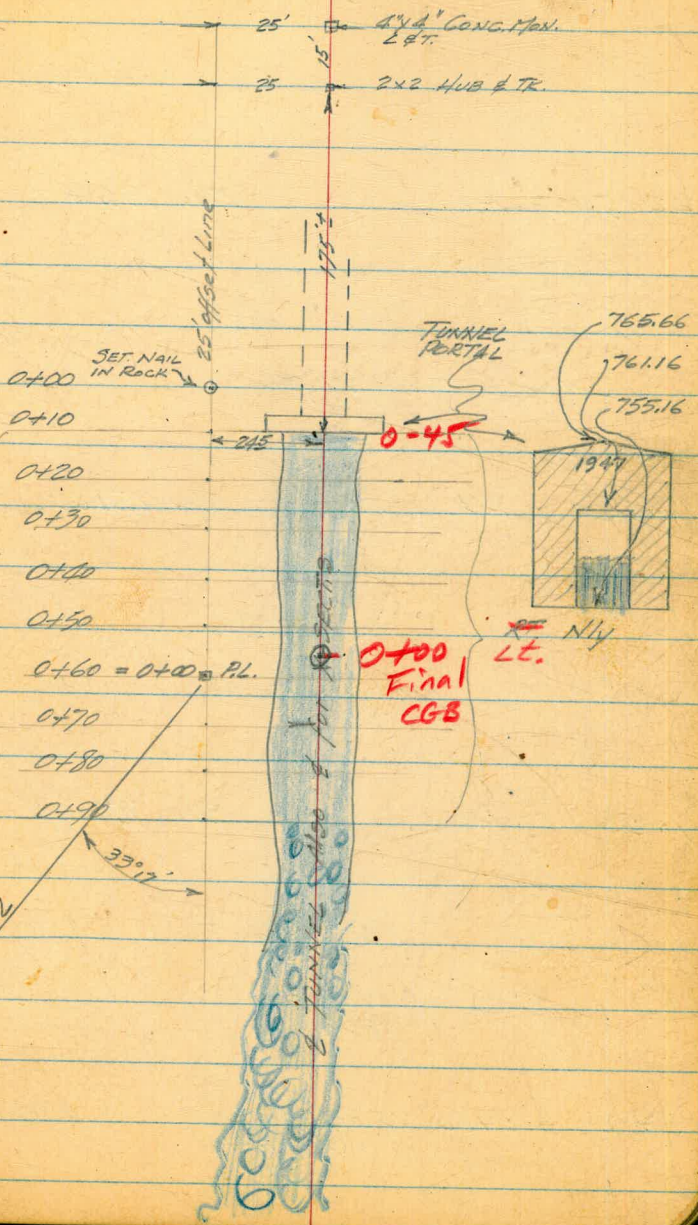
See FB 898A for final
 Alignment of 0+00 is 45' from
 Portal Face on q of Tunnel
 C.B.



RT.
 ST. 514

190'±

to Proposed PL



SAN DIEGO ARQUEDUCT - SAN VICENTE
PIPELINE
R2 ALIGN.
"FLY LINE"

8/2/54

BEATTY
SHOREY
MARTELL
ALEXANDER

45

(Fly-line Cont'd FB 873 pg. 2)

22+54 P.L. Elev. 753.26

Stadia 534'

N 60° 00' E

Δ 1) 54° 59' LT.
2) 109° 58'

17+20 P.L. Elev. 754.62

565° 00' E
B.S.

Stadia 970'

564° 15' E
F.S.

Δ 1) 40' 11" LT.
2) 8° 22'

7+50 P.L. Elev. 757.09

560° 00' E
(D.S. MAG. BRG)

Stadia 750'

560° 30' E
(F.S. MAG. BRG)

Δ 1) 33° 17' RT.
2) 66° 33' 30"

0+00 = 0+60 25' offset line
(see pg. 44) Elev. 761.7

SAN VICENTE AQUEDUCT.
CONNECTION.
- R2 -
& PROPOSED PIPELINE

AUG. 5 1954
BRADY
SHOREY
MARTELL
ALEXANDER

~~17+06.80 P.I. (17+20 fly line) 14+00 P.O.T.~~

14+97 Bottom of Draw $\Delta 1) 17^{\circ}02'30''$ LT.
13+90 " " " $2) 34^{\circ}05'$

12+75 " " "

12+00 Bottom of draw 12+00 P.I.

11+15 P.O.T.

9+50 P.O.T.

$\Delta 1) 4^{\circ}11'$ LT.
 $2) 8^{\circ}22'$

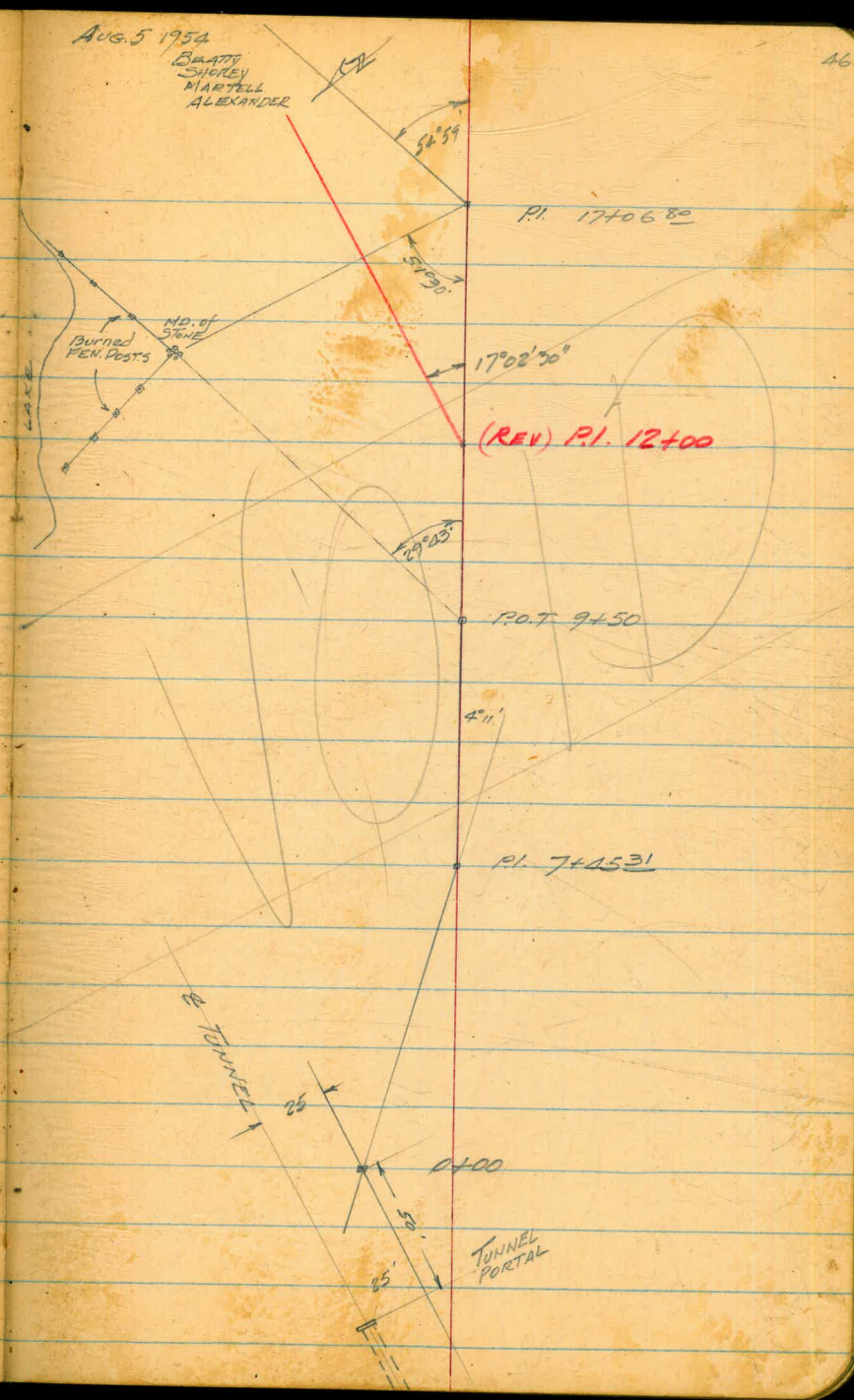
7+45.31 P.I. = (7+50 fly line)
see pg. 45

6+00 P.O.T.

4+00 }
3+95 } Bottom of draw

3+50 P.O.T.

0+00



SAN VICENTE AQUEDUCT
 CONNECTION
 - R2 -
 (Contd)

Aug. 9, 1954

BEATTY
 SHREY
 MARTELL
 ALEXANDER

47.

31+43⁷³ P.I. (= 31+65 fly line)

29+14 Bottom of draw 597°05' E

28+00 P.O.T.

Δ 1) 33°36' RT.
 2) 67°11'

27+14³³ P.I. (= 27+34 fly line)

24+55 Bottom of draw N 88°30' E

23+25 P.O.T.

Δ 1) 27°46' RT.
 2) 55°12' ?

22+38⁸⁰ P.I. (= 22+54 fly line)

Δ 1) 37°56'15" LT
 2) 75°52'30"

19+34 Bottom of draw 19+50 AH
 18+76 BK P.I.

N 0°30' E

Δ 1) 54°59' LT
 2) 109°58'

17+75 P.O.T.

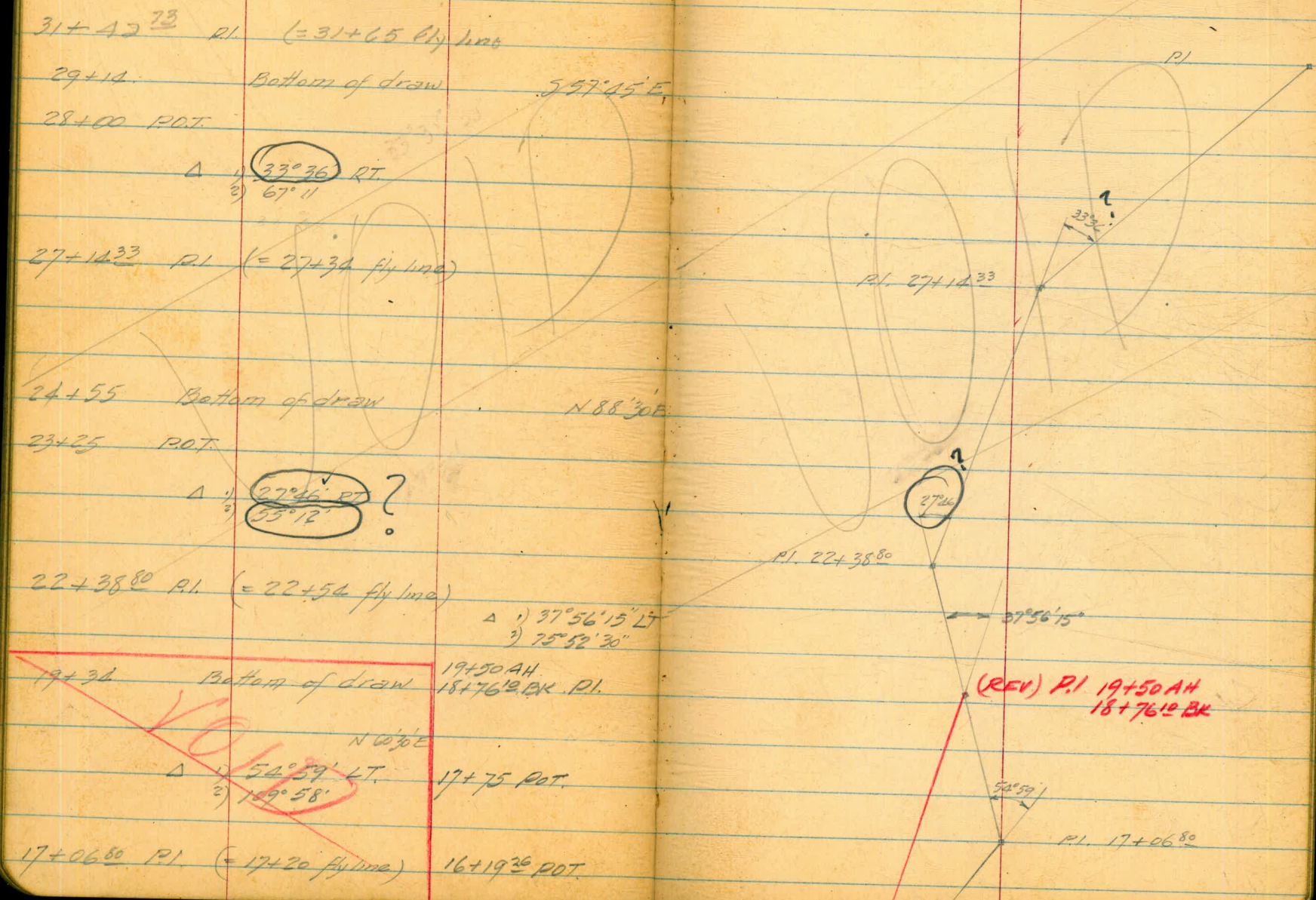
17+06⁸⁰ P.I. (= 17+20 fly line) 16+19²⁶ P.O.T.

P.I. 27+14³³

P.I. 22+38⁸⁰

(REV) P.I. 19+50 AH
 18+76 BK

P.I. 17+06⁸⁰



San Vicente Aqueduct
Connection

Aug 11 54
West
Williams
Kellhofer
Varonakis

48

54+79²¹ POT = 55+30 Fly line

53+00 POT

47+63 Bott of East west draw

47+27 @ dirt road

46+59 Bottom side Draw S 04° 00 W

1) 22° 38' 30" RL

2) 45° 16' 30"

42+80 POT

39+55^{8A} PI = (39+80 Fly line)

37+00 POT Hub 2 Tack

35+55 Bottom of draw

33+80 POT spike

Δ = 8° 58' 30" RL S 18° 30" E

2) 17° 58' 00"

32+83⁰⁹ PI = (33+05 Fly line)

① 29° 04' RL S 27° 00' E

2) 58° 08' 30"

31+42⁷³ PI

39+55^{8A} PI

32+83⁰⁹

PI 31+42⁷³

San Vicente Aqueduct
Connection

Aug 13 1954

West
Williams
Varonakis
Kallbater

Warm

49

See Additional Details pg 51

REV. 76+31³⁷ see pg. 52

~~76+29³¹ = (76+26⁴⁰ Fly line end of line)~~

No. 1

4 ~~77+20~~ 5' High chicken wire fence

~~75+30⁸⁵ POT = 74+00⁴⁴~~

74+13 East side road thru

73+95 West edge same thru

65+65 POT Top large dump of rocks

65+25 POT Top 10' dia rock

62+70 POT

550° 00 E

60+10 POT $\Delta = 14^{\circ} 16' \Delta$

20 28° 32'

59+31⁸⁶ PI = (59+82 Fly line)

$\Delta = 39^{\circ} 20' \Delta$ S 36° 00 E

20 78° 40'

55+88⁸³ PI = (56+70 Fly line)

See FB 873 p 4
for Ties to
SV#2 PL.

74+19 ± & SUPPL #1 (from Dwg)

446
442

59+31⁸⁶ PI

39° 20'

55+88⁸³ PI

San Vicente Aqueduct

Alternate Line

55+88⁶³ fly line = 0+00

$\Delta = 24^{\circ} 29' 30''$
 $24 = 49^{\circ} 18'$

5 51' 00" E

PI 16+96⁸⁹ = 71+00

$\Delta 45^{\circ} 20' 46''$

5 75' 00" E

PI 9+00

5+50 P.O.T. Top Large East West Rock

5 29' 00" E

$\Delta 25^{\circ} 45' 30''$ L

PI 2+65

$\Delta 7^{\circ} 08' 30''$ L 5 03' 30" E

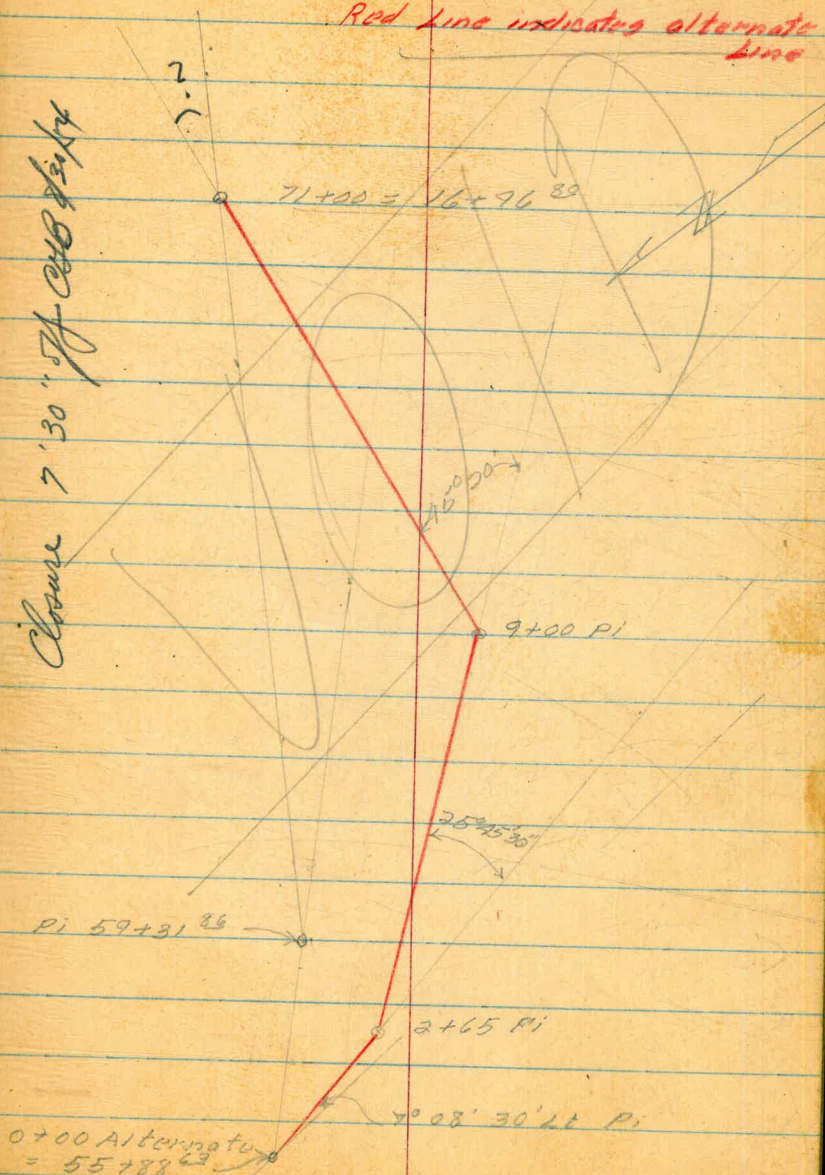
PI 0+00 Alternate = 55+88⁶³

West
Williams
Varonfakis
Kellhofer

50.

Red line indicates alternate line

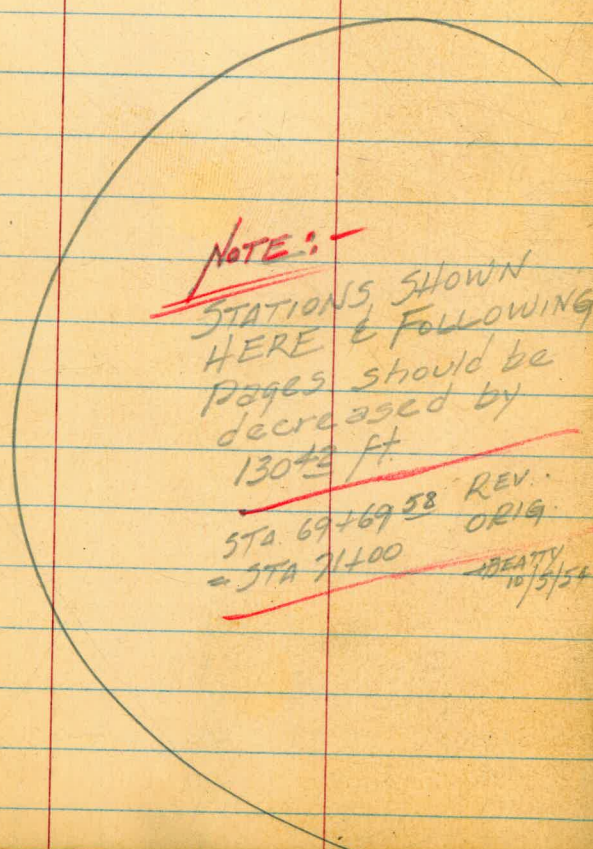
Course 7' 30" off center



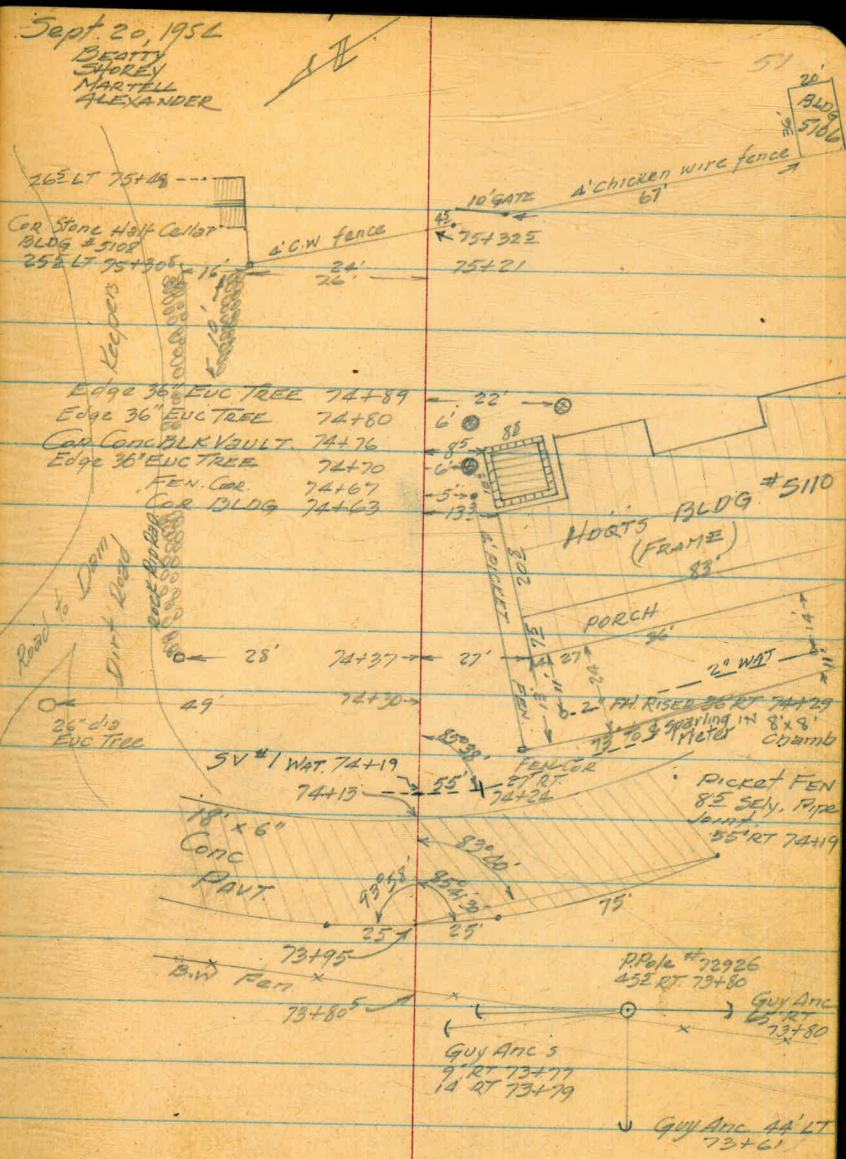
0+00 Alternate = 55+88⁶³

R-2
 SAN VICENTE AQUEDUCT. CONN.
 Additional Details

Bottom of Tree 73+48 5 75 RT
 " " " 73+40 4 75 RT



NOTE:
 STATIONS SHOWN
 HERE & FOLLOWING
 PAGES should be
 decreased by
 130 1/2 ft
 STA. 69+69 58 REV.
 = STA 71+00 ORIG.
 BEATTY
 10/5/54



R-2
 SAN VICENTE Aqueduct Conn
 Details Cont'd.

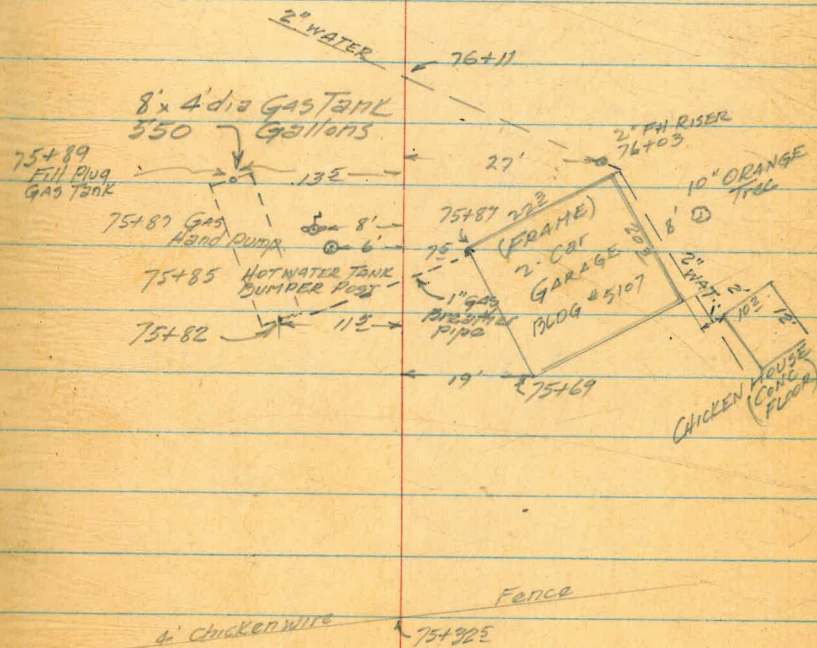
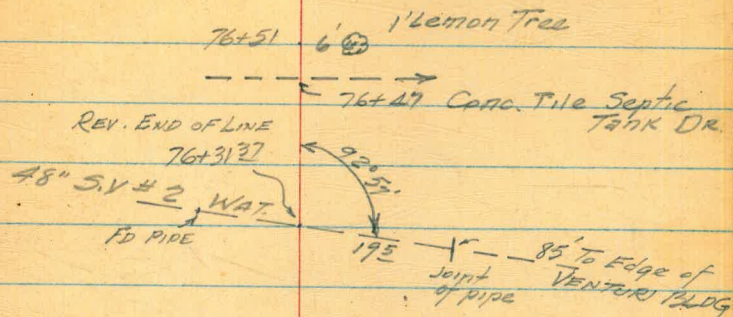
9/20/54

52

~~75+00.95~~
~~76+31.37~~

Intersection with ϕ 48"
 San Vicente #2 Pipe line

SEE NOTE
Pg 51



R-2
 SAN VICENTE AQUEDUCT CONN
 MISC. ELEV'S

Sept 21, 1954

53

SEE NOTE
 P9-51

BM.	5.49	461.03	455.54	
Top 42 1/2" SV # 1		10.69	450.34	
		10.80	450.23	Elly Side
Top " " "		10.83	450.20	Wly Side
Ground Elev.		7.8	453.2	

NAIL IN R.Pole

39' RT. ~~74+19~~ ⁷²⁺⁸⁸⁵⁸ ✓

Pipe joint 55' RT; 85°38' RT, ~~74+19~~ ⁷²⁺⁸⁸⁵⁸ ✓

Top 48" SV # 2		9.04	451.99	Wly Side
		9.02	452.01	Elly Side
Ground Elev.		6.6	450.4	

Pipe joint 19⁵ RT; 92°57' RT, ~~76+3137~~ ⁷⁵⁺⁰⁰⁷⁵ ✓

Top 48" SV # 2		8.35	452.68	
----------------	--	------	--------	--

on Conc pipe 8⁵ LT ~~76+3137~~ ⁷⁵⁺⁰⁰⁹⁵ ✓

74+586 75+89	13 ⁵ LT End gas tank	8.13	452.90	Top tank
----------------------------	---------------------------------	------	--------	----------

13⁵ LT 75+89 ~~74+586~~ ✓

75+82 74+516	11 ⁵ LT End gas tank	8.15	452.88	Top tank
----------------------------	---------------------------------	------	--------	----------

11⁵ LT 75+82 ~~74+516~~ ✓

72+6460 73+95	on Conc part.	6.83	454.20	
-----------------------------	---------------	------	--------	--

Notes checked and plotted 9/24/54 R9

"	25' LT. " " "	6.99	454.70	
---	---------------	------	--------	--

"	25' RT " " "	7.26	453.77	
---	--------------	------	--------	--

"	100' RT " " "	7.80	453.23	
---	---------------	------	--------	--

72+8260 74+13	on conc part.	6.88	454.15	
-----------------------------	---------------	------	--------	--

"	25' LT " " "	6.41	454.62	
---	--------------	------	--------	--

"	25' RT " " "	7.31	453.72	
---	--------------	------	--------	--

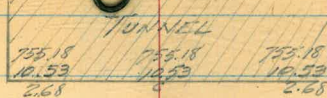
"	100' RT " " "	7.81	453.22	
---	---------------	------	--------	--

OK BM		5.49	455.54	
-------	--	------	--------	--

SAN VICENTE AQUEDUCT
CONNECTION
CROSS-SECTIONS OF CHANNEL
EN FROM TUNNEL PORTAL
(see sketch pp. 54)

OCT 15 1954
Eggers
Shroy
Mertel
Alexander

BM (pp. 42) 0.05 765.71 765.66 Hi. Pt.
Tunnel
Portal



0-45 Face Tunnel Portal

LT. (N.Y.) RT. (S.V.)
758.06 754.56 754.26 753.36 753.31 753.26 754.08 754.56
7.6 11 11.2 12.3 12.35 12.4 11.6 11.1
6 5 4 3 2 3 4 4.5

0-43

761.86 759.56 752.36 752.46 752.66 754.16 756.46
3.8 12.1 13.3 13.2 13.0 11.5 9.2
6 4 3 2 3 2 6

0-40

761.66 752.66 751.76 751.56 752.66 754.46 756.96 757.66
1.0 13.0 13.9 14.1 13.0 11.2 8.7 8.0 3.0
6 3 3 2 3 3 6 7

0-30

761.46 757.66 757.16 753.16 752.76 752.76 753.86 753.66 755.06 755.26 755.96 756.26
2.2 8.0 8.5 12.5 13.9 13.9 11.8 12.0 10.6 10.4 9.7 7.3
5 5 4 2 2 3 2 5 5 6 7 9

0-27

761.66 757.66 757.26 753.56 753.16 753.66 754.06 754.96 755.36 758.46
4.0 8.0 8.4 12.1 12.5 12.0 11.6 10.7 10.3 7.2
6 5 4 2 2 3 5 5 6 9

0-25

762.16 755.16 754.46 753.86 753.46 753.76 754.46 755.26 756.76 758.16
3.5 10.5 11.2 11.8 12.2 11.9 11.2 10.3 8.9 7.5
7 6 5 5 2 5 6 8 9 10

0-17

762.86 761.86 758.76 756.46 755.76 753.46 753.36 753.16 753.76 754.46 757.86 760.96
2.8 4.3 6.9 9.2 9.9 12.2 12.3 12.5 11.9 11.1 7.8 4.7
11 8 7 6 5 4 2 3 4 6 7 10

0-10

762.86 760.16 755.16 753.16 752.96 752.96 753.86 754.46 756.16 759.86
2.8 5.5 7.5 12.5 12.7 12.7 11.8 11.2 9.0 5.8
10 7 5 5 2 5 6 7 8 11

0+00

760.56 758.66 752.66 752.96 753.26 754.46 757.06
5.1 2.0 13.0 12.7 11.8 11.2 8.9 5.9
7 5 5 2 7 8 8.5 13

JAN VICENTE AQUEDUCT
CONN
(Cont'd)

10/15/54

55

N₁

S₁

0+10 X.P.T. 765.71

0+20 (Back Tang produced) RT. & To

0+30 (" " " ")

0+32 (" " " ")

0+40 (on Back Tang produced)

P 194 758.38 9.27 756.44

0+30

0+40

0+47

0+55

0+65
CK ANT. 9.75 766.34 1.59 756.79
0.33 765.66 = 765.66

760.16 756.66 756.06 754.46 754.46 752.96 752.86 753.26 753.26 754.16 754.56 757.46
55 9.0 9.6 11.2 11.2 12.7 12.8 12.4 12.4 11.5 11.1 8.2
95 7 6 5 5 5 2 3 5 8 8.5 10

758.46 753.56 753.36 752.56 752.86 752.96 753.26 753.86 754.36 753.26 757.16
72 12.1 12.3 13.1 13.8 12.7 12.4 11.9 11.3 10.4 8.5
8 5.2 5 4.2 2 2 3 7 9 10 12

759.56 754.56 752.56 752.66 752.96 752.56 752.76 753.56 753.76 754.46
61 11.1 13.1 13.0 12.7 13.1 13.3 12.8 12.1 11.9 10.2
8 6.5 6 2 2.5 3.5 4 7 10 15

757.26 752.76 752.36 751.46 750.66 750.26 749.66 752.26 752.26 752.46 752.46 752.46
8.4 12.9 13.3 14.2 15.0 15.4 16.0 12.4 13.4 12.9 12.2 12.4
10 8 7 5.2 2 2 4 4 5 5 7 10

752.26 752.36 751.46 750.06 748.46 748.86 750.06 749.76 754.56
74 13.3 14.2 15.6 17.2 16.9 15.6 15.7 13.8
11 9 5 6 8 11 11 18 20

on 1/2" gink 0+30

746.38 749.38 748.96 751.58 752.08 752.18 753.28 754.78 756.48
120 9.0 9.4 6.8 6.3 6.2 5.1 3.6 1.2
20 18 12.5 11 10.5 9.5 9 3 2

743.94 744.24 745.34 746.24 748.74 748.54 753.04 754.84
12.5 12.2 10.6 10.2 8.1 7.9 3.4 1.6
20 16 15 11 11 8 5.5 2

741.88 744.58 749.58 751.38 754.38 756.18
16.5 14.5 8.8 7.0 4.8 3.2
20 16 12 9 8.5 6

746.98 746.88 753.78 753.48 754.28 755.08
11.4 11.5 8.6 4.9 4.1 3.3
20 16 15 10 7 2

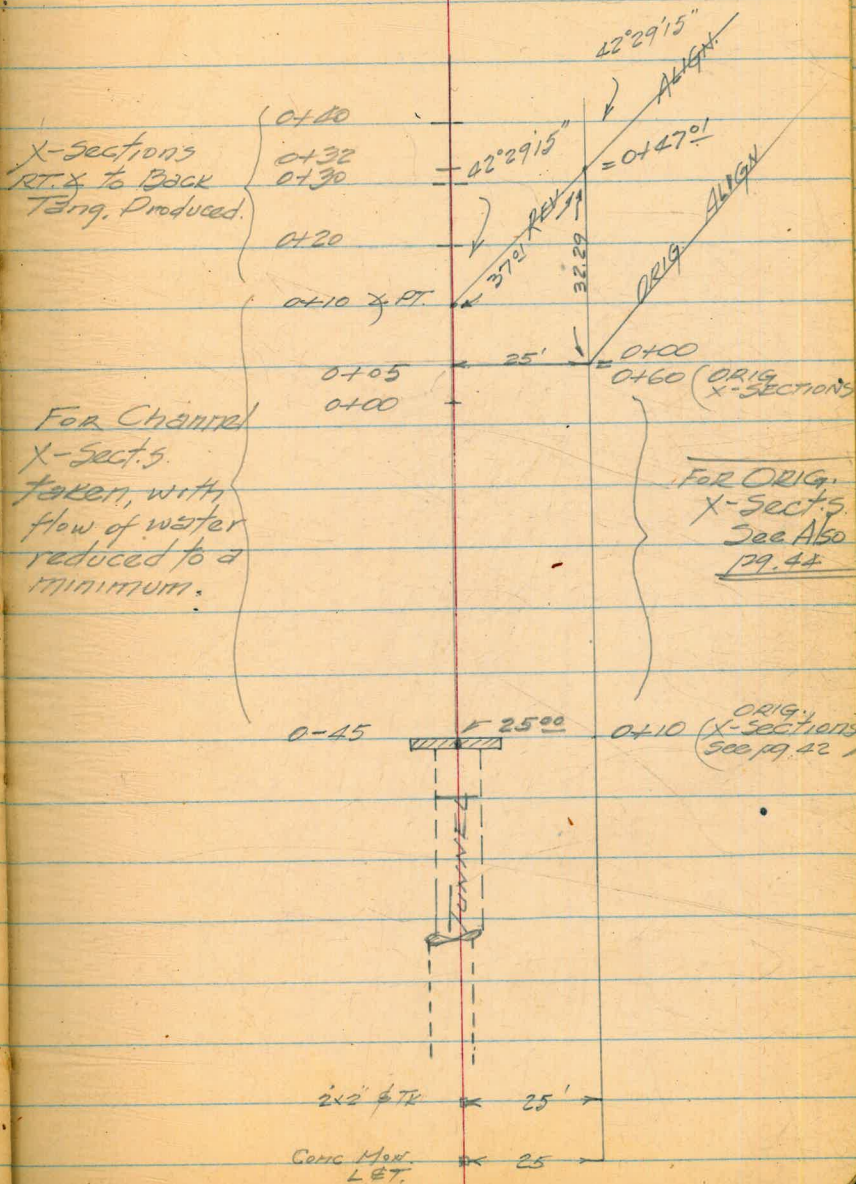
744.38 751.38 752.38 751.08 753.48
14.0 7.0 6.0 7.9 4.9
26 23 17 14 2

SECTIONS
Taken to Left
of proposed E,
to show close
proximity of
cut bank to Ely.

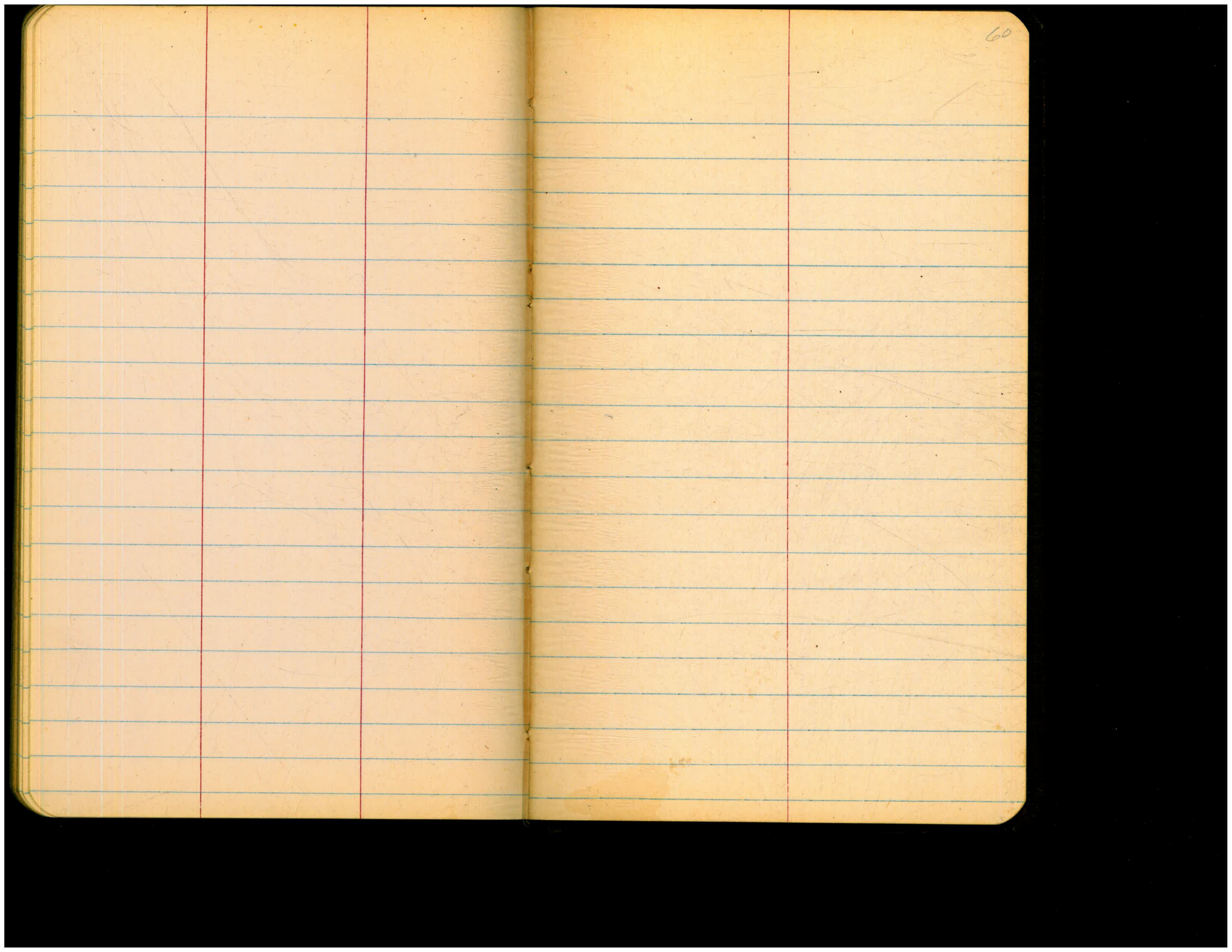
SAN VICENTE AQUEDUCT
CONN.
Cont'd

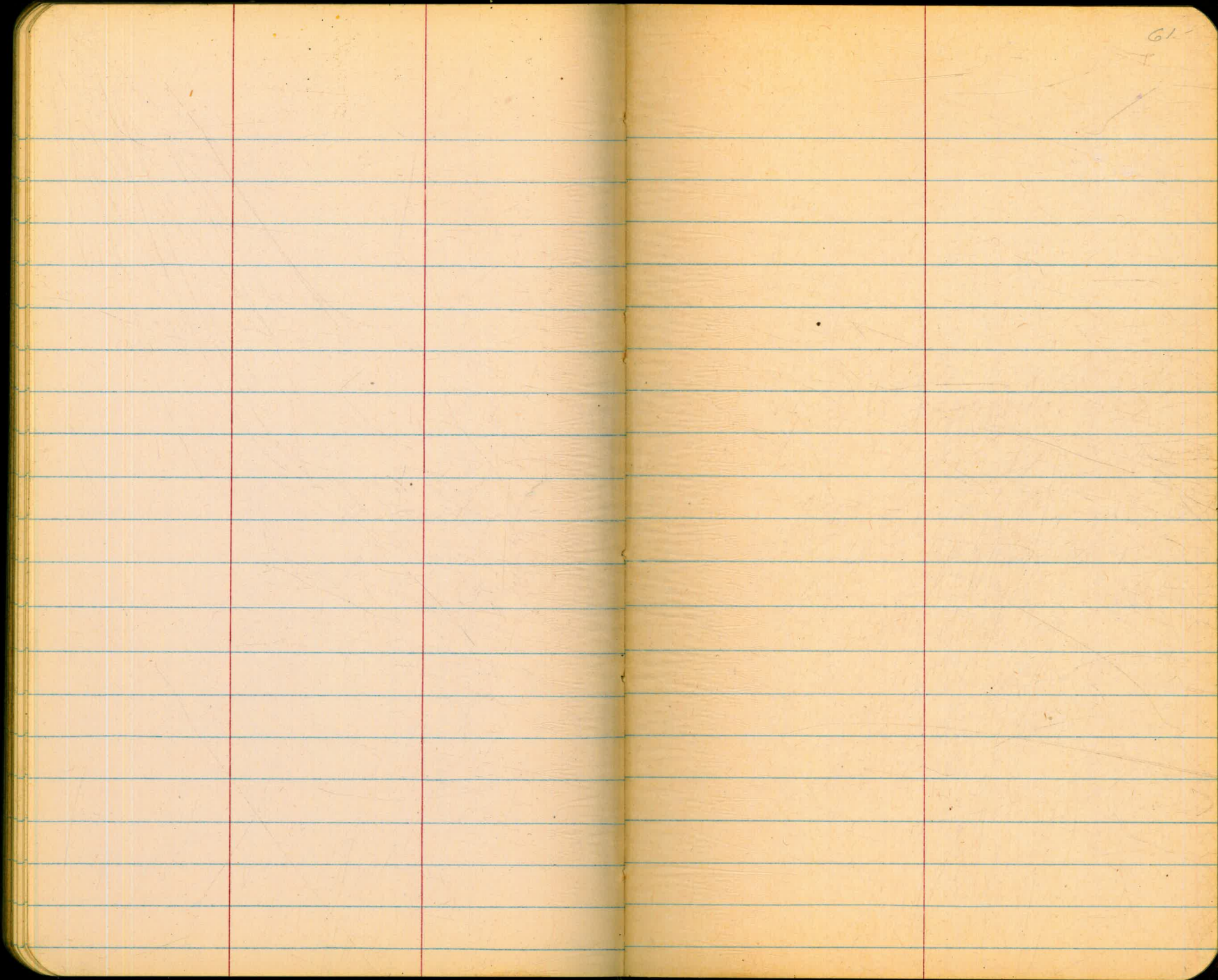
OCT. 15 1954
BEATTY
SPOREY
HARRILL
ALEXANDER

56

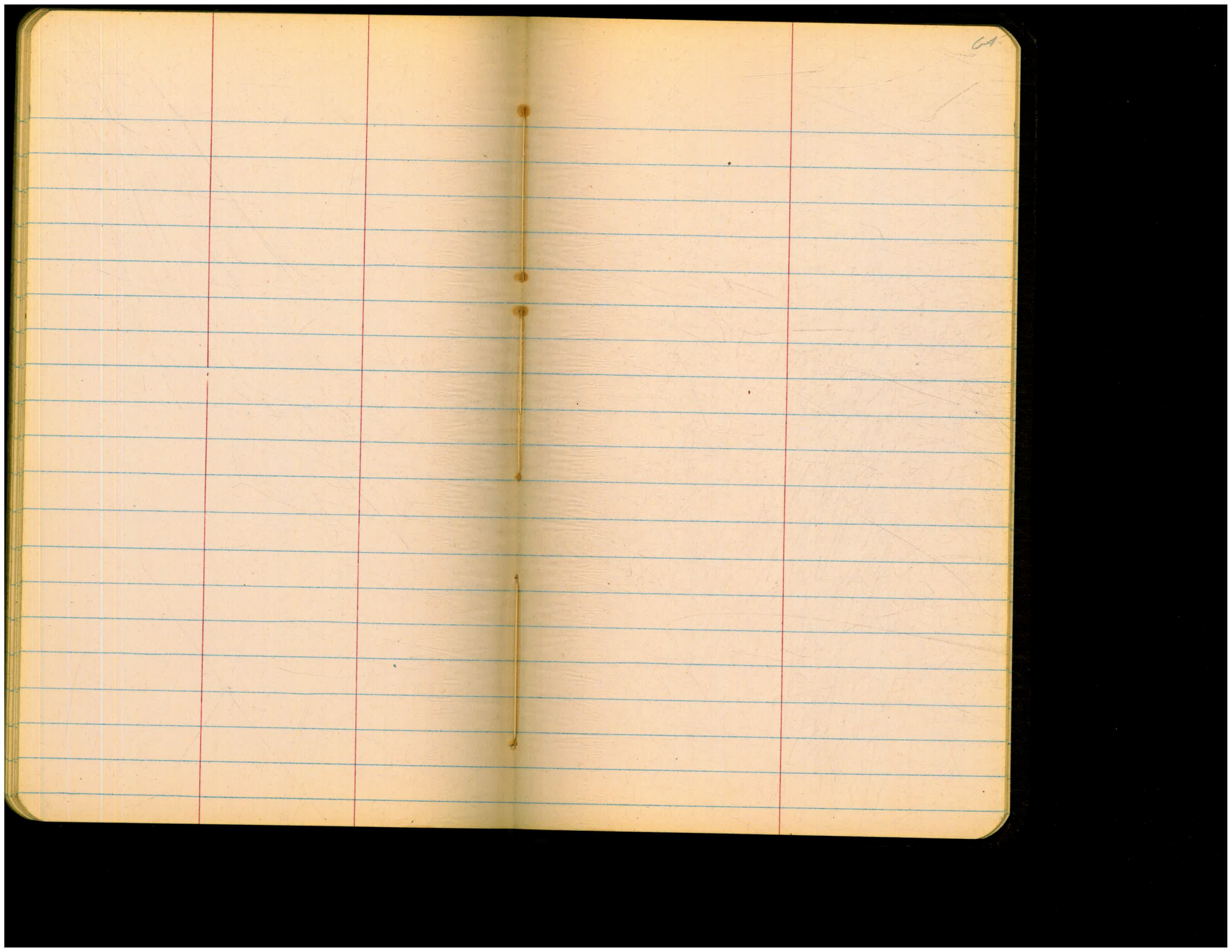


The image shows an open notebook with two facing pages. The pages are cream-colored and feature light blue horizontal ruling. A vertical red margin line is present on the left side of each page. The notebook is bound in the center, and the pages appear slightly aged. The number '57' is written in the top right corner of the right page. There is no text or other markings on the pages.



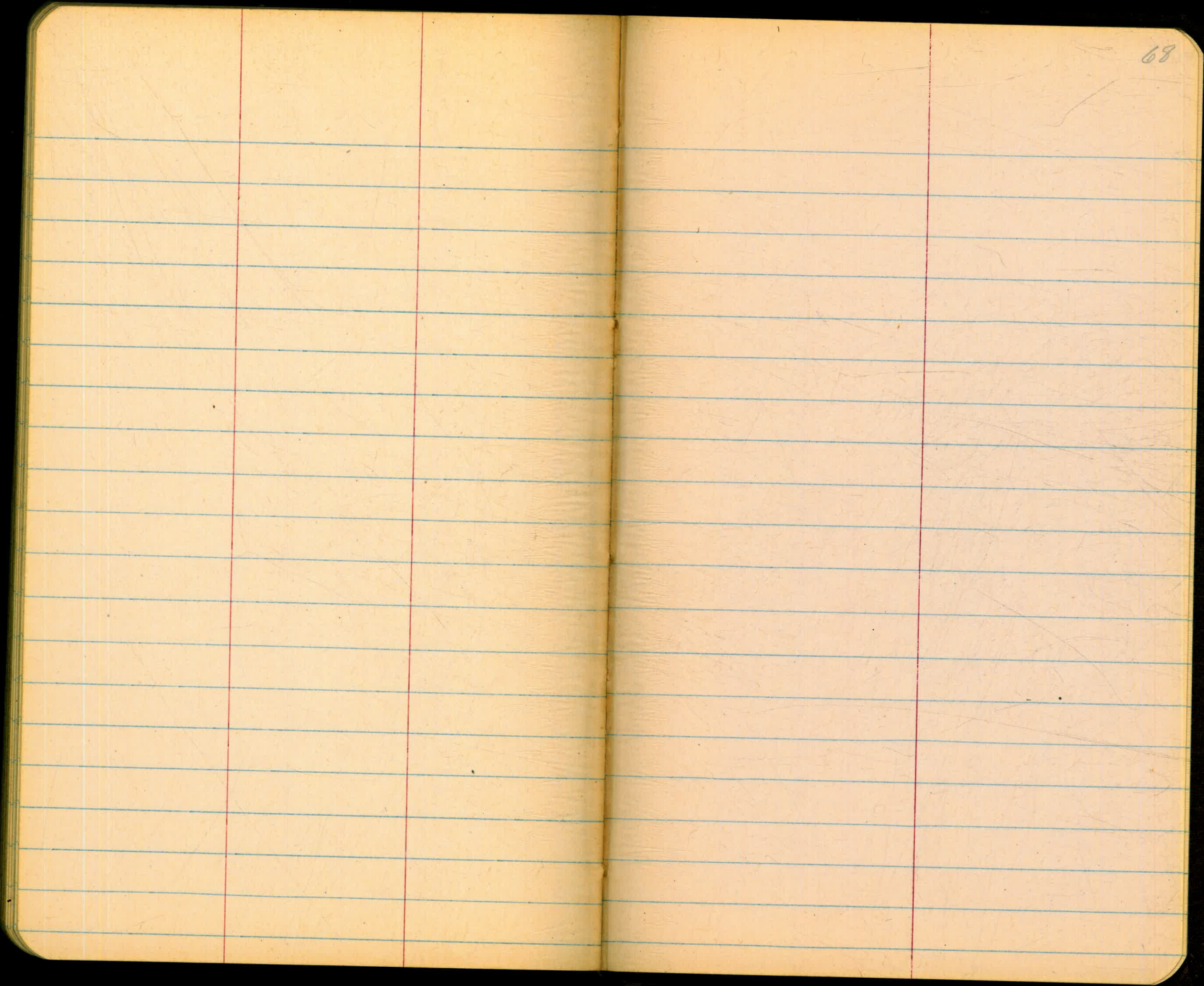


61

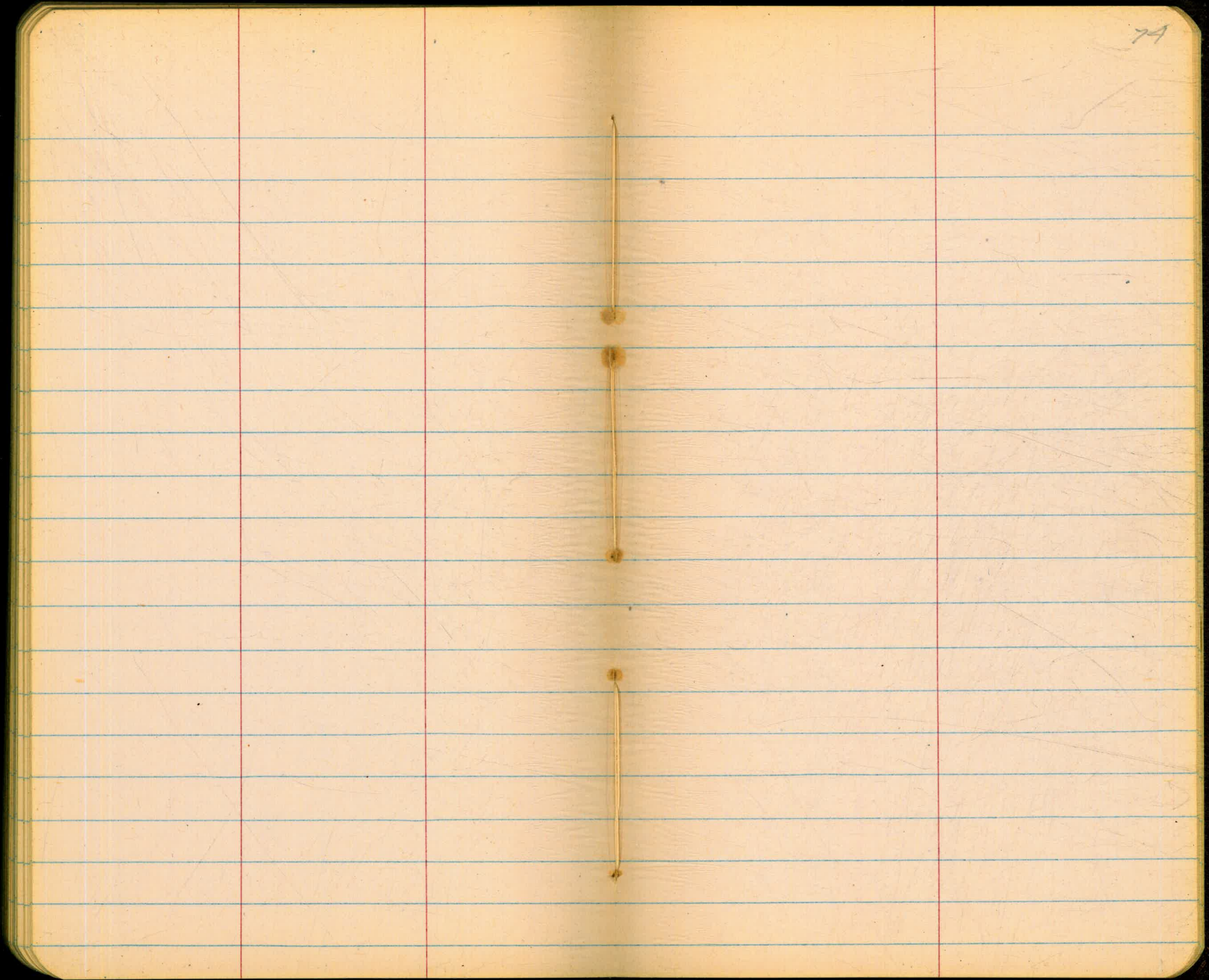


The image shows an open notebook with two facing pages. The pages are cream-colored and feature light blue horizontal ruling. Each page is divided into three vertical columns by two red margin lines. The right page has the number '65' written in the top right corner. The notebook is set against a black background.

The image shows an open notebook with two facing pages. The pages are cream-colored and feature light blue horizontal ruling. A vertical red margin line is present on the left side of each page. The notebook is bound in the center, and the pages are slightly aged. The number '66' is written in the top right corner of the right page.



An open notebook with two blank, lined pages. The pages are cream-colored with light blue horizontal ruling. Each page has two vertical red margin lines. The right page has the number '71' written in the top right corner. The notebook is set against a black background.



Scks for Water Meters
Alley BIK 11 City Hts
E of Highland
N of Thorn

West
Williams
Varen Poles
Kellhofer

77
8/17/54

6.78 329.37 322.54

BM BP NW Cor Highland & Thorn St

9.28 337.58 1.07 328.30

D+27	8.8	328.8	327.1	C1 $\frac{7}{1}$	WMW
+75	7.3	330.3	330.0	CO $\frac{3}{1}$	WME
+97	6.4	331.2	330.5	CO $\frac{7}{1}$	WMW
H+14	6.1	331.5	330.7	CO $\frac{8}{1}$	WMW
+21	6.0	331.6	331.1	CO $\frac{5}{1}$	WME
+67	5.3	332.3	331.6	CO $\frac{7}{1}$	WME
+76	5.1	332.5	331.5	C1 $\frac{0}{1}$	WMW
2+10	4.5	333.1	331.9	C1 $\frac{2}{1}$	WMW
+10	4.9	332.7	332.1	CO $\frac{6}{1}$	WME
2+66	3.8	333.8	332.8	C1 $\frac{0}{1}$	WME
3+25	3.7	333.9	333.3	CO $\frac{6}{1}$	WMW
+38	3.5	334.1	333.7	CO $\frac{4}{1}$	WME
+74	2.1	334.5	334.0	CO $\frac{5}{1}$	WMW
+86	2.8	334.8	334.4	CO $\frac{4}{1}$	WME
5.72	342.25	1.05	336.53		
4+24	6.2	336.1	335.0	C1 $\frac{1}{1}$	WMW
+20	6.5	335.8	335.0	CO $\frac{8}{1}$	WME

Alley BIK 11 Cont.

8/17/54

78

342.25

A+52	5.9	336.4	335.6	CO	⁸ / ₆	WME
+83	5.7	336.6	336.0	CO	⁶ / ₆	WMW
+83	5.5	336.8	336.2	CO	⁶ / ₆	WME
5+08	4.7	337.6	336.7	CO	⁹ / ₆	WME
+21	5.0	337.3	336.7	CO	⁶ / ₆	WMW
+36	4.5	337.8	337.2	CO	⁶ / ₆	WME
+69	4.1	338.2	337.7	CO	⁵ / ₆	WME
+79	3.8	338.5	337.8	CO	⁷ / ₆	WMW

2.23 336.78 7.70 334.55

3.16 327.64 12.30 324.48

5.04 322.60 = 322.59

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

RJ 1751

NE 1/4 of SE 1/4

Sec 35 14-5 1W

0-30 42
 0-25 65
 0-17 62
 0-10 52
 0-00 55
 0-10

N 69-30 E
 90
 159-30
 S 20-30 E

180
 55
 125
 112
 142
 38

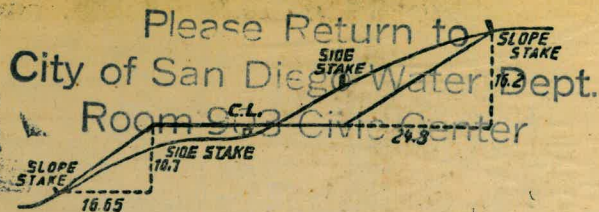
765.60

452

10341-R2

29°-03'
 59°-26'

17-02-30 L1
 34-05



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	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	0
1	1.50	1.65	1.80	1.95	2.10	2.25	2.40	2.55	2.70	2.85	1
2	3.00	3.15	3.30	3.45	3.60	3.75	3.90	4.05	4.20	4.35	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	10.35	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	13.35	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	16.35	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	19.35	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	22.35	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	25.35	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	28.35	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	31.35	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	34.35	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	37.35	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	40.35	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	43.35	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	46.35	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	49.35	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	52.35	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	55.35	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	58.35	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	61.35	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	64.35	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	67.35	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	70.35	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	73.35	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

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 NEW YORK CHICAGO BOSTON SAN FRANCISCO