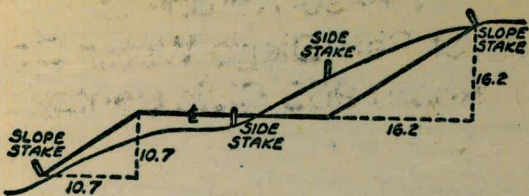


W 937

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



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.

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	.58	.65	.72	.79
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	.89	.99	1.09	1.20	1.31	1.42	1.54
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	4.55	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	.032	.037	.043	.049	.054	.061	.067
20°	.006	.011	.017	.022	.028	.034	.039	.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°	.046	.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	.617	.707	.797	.887	.977	1.07	1.18	1.29
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

INDEX

Viking Way ST Louis Terrace 1-2 ✓  
 STks for 6" AC alicé  
 To Torrey pines Rd  
 Preliminary  
 Santa FE St Balboa to 1200' Nly 3-5 ✓  
 alicé  
 Pacific Hwy Balboa to Rosewood  
 Pelim Group 103 Ely Line  
 Pelim Group 103 wly line ✓  
 Pacific Hwy Balboa to 1750' Sly 15 ✓  
 alicé  
 San Orific Terr Olyera Ave  
 STks for 6" AC ✓  
 to Santa Inaba Dr Group 103 15-19 ✓  
 alicé  
 Los Angeles Pl. Trinidad Way ✓  
 Group 103  
 to Lane 290' South STks for 6" AC 20 ✓  
 MANZANARES WAY West Subdivision Boundary  
 Group 103  
 to San Joaquin Dr STks for 6" AC 21 ✓  
 Orange Ave Wly of 54th St 22 ✓  
 alicé  
 STks for lowering Existing main ✓  
 Maple Ct STks for lowering 23  
 Existing main STks for meters ✓  
 alicé  
 Allegheny St Raphael to Res Dr 24 ✓  
 alicé

## VIKING WAY

ST Louis Terr to Torrey Pines Rd

STKS FOR 6" AC

1229	49.63		37.34
11.91	60.66	0.88	48.75
0+15 <sup>5</sup>		6.5	54.2
0+50		6.2	54.5 51.2
0+54		5.8	54.9 51.7
0+54		5.2	55.5 55.6
0+54		5.26	55.40
1+00		0.8	59.9 56.9
12.94	73.02	0.58	60.08
1+50		6.9	66.1 62.6
2+00		3.7	69.3 66.0
+50		1.7	71.3 68.0
12.07	84.84	0.25	72.77
3+00		11.4	73.4 70.1
+50		9.3	75.5 72.3
4+00		7.0	77.8 74.6
+50		4.9	79.9 76.7
5+00		2.7	82.1 78.8
+97	split	0.8	84.0 79.7

West  
Williams  
Paulson

10/2/56 WARM

BM SE BP Spindrift + St Louis

C TO EXISTING Begin work install 6" x 6" Tee

C3<sup>3</sup>C3<sup>2</sup> FH TeeFO L TO FLANGE (2) FH C3<sup>8</sup> To Ell.

Top of Ob

C3<sup>0</sup>C3<sup>5</sup>C3<sup>3</sup>C3<sup>3</sup>C3<sup>3</sup>C3<sup>2</sup>C3<sup>2</sup>C3<sup>2</sup>C3<sup>3</sup>C4<sup>3</sup>

Viking Way Cont

~~94.88~~

12.30 96.47 0.67 84.17

6+00 10.0 86.5 82.0

C4 <sup>5</sup>

+50 6.5 90.0 85.7

C4 <sup>3</sup>

+95 3.2 93.3 89.6

C3 <sup>1</sup>

7+28 0.3 96.2

C To EXISTING end of work

0.09 96.38 =

96.32

NW Cor. Viking Way  
Torrey Pines Rd

10/2/56

SANTA FE ST 650' Nly of  
Balboa to 1200± Nly

Palma

11+70 EC

$\Delta = 11^{\circ}30'$   
 $R = 1345.20$   
 $L = 270$  } Curve Calculated  
To Run Parallel  
to Edge of State  
Access Road

9+00 BC

7+52 <sup>33</sup>

90° Lt 43.72± State Hwy Man

6+51 <sup>5</sup>

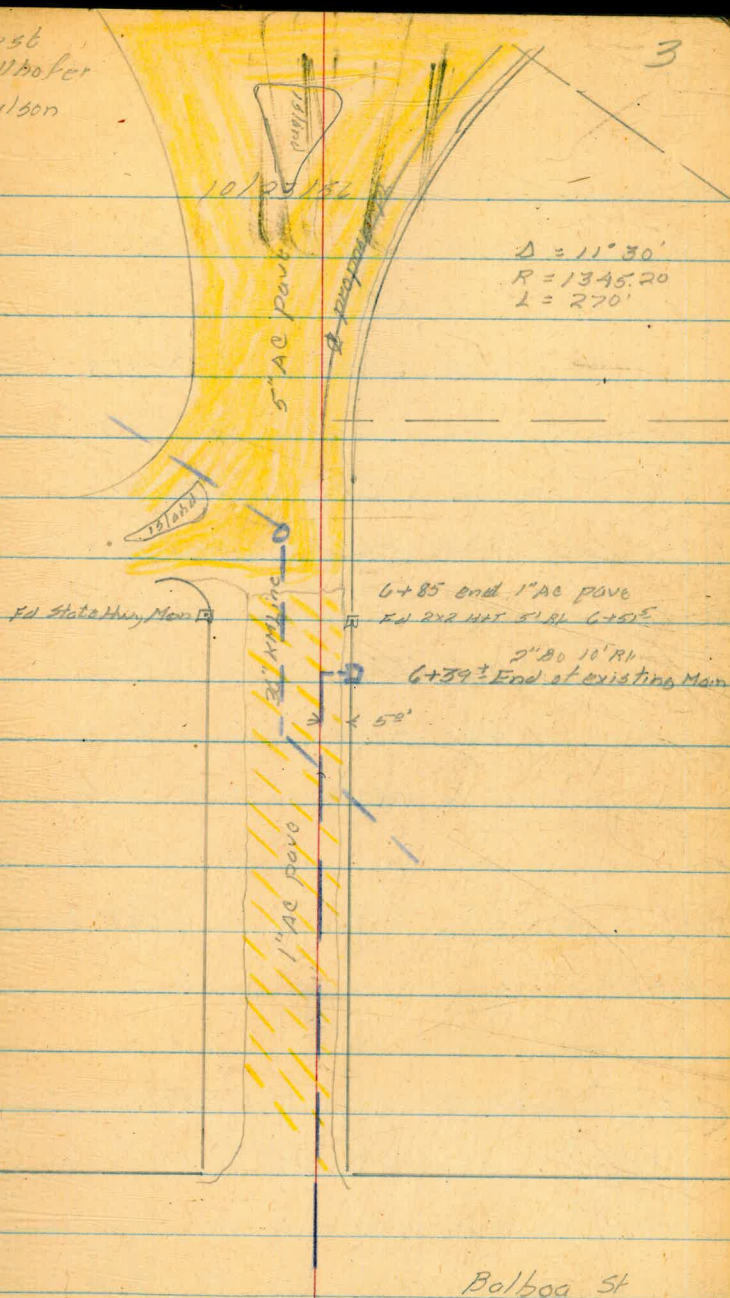
POT EA 2'x2" H+T 5' RB

0+00

5ly prop line Balboa

West  
Kellhofer  
Paulson

3



Ref:

CHIEF Clark

ENGINEERING DEPARTMENT FIELD NOTES

INDEX LOCATION D-13

F.B. 1851-61

INSTR. GARBER

Job Description and Location X-SECTION SANTA FE ST.

DATE: 1-6-56

STATE T.R.S (No Number)

WIN BRUNER

BALBOA, N.W.

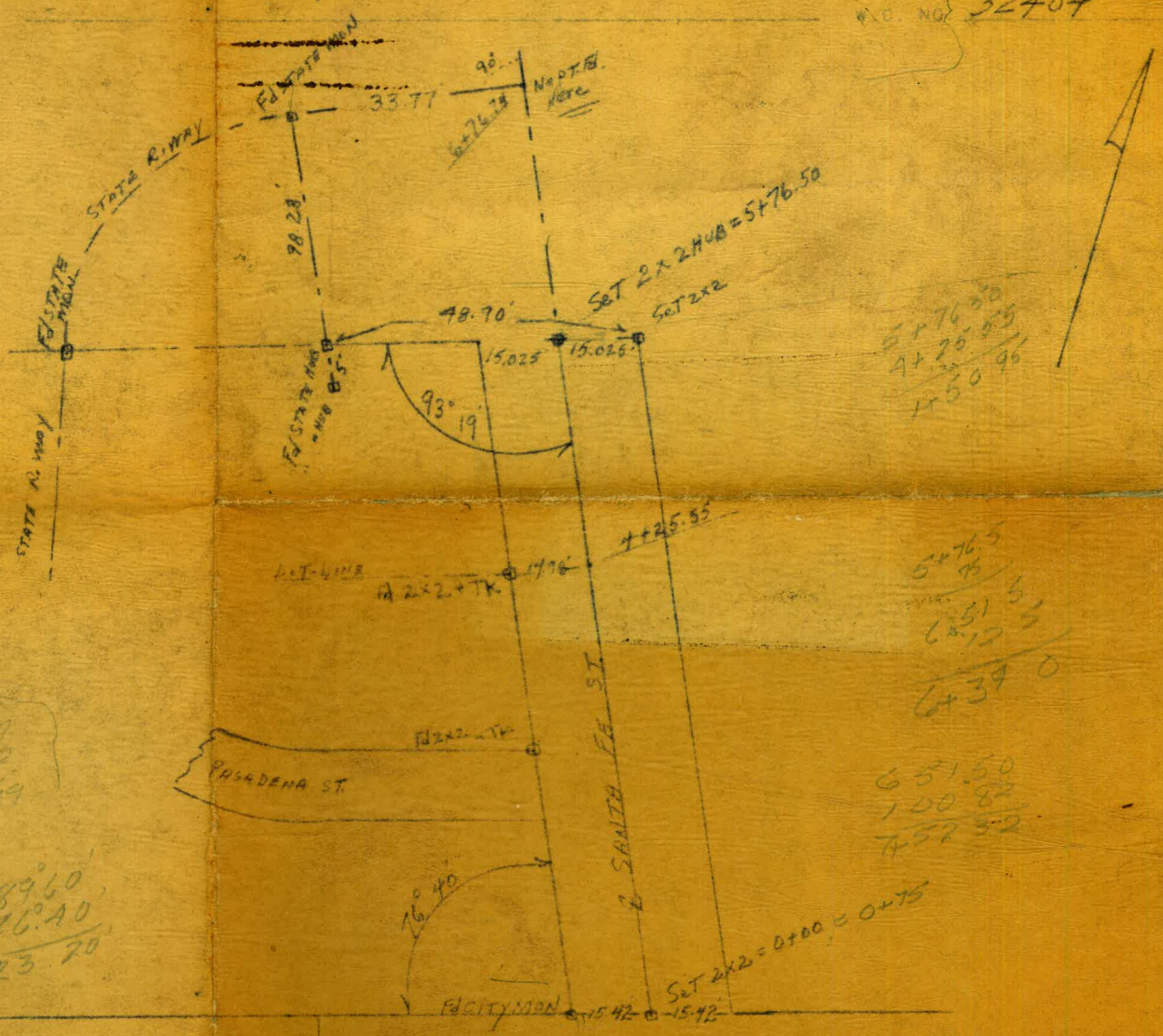
W.P.O. NO. 32404

(R. of MAP SHEET)

CHN ONEIL

459

6+39 End of Pipe  
6+51' 6" PD 7" HAT 10" LT  
7+52 32



5+76.50  
4+25.55  
1+50.95

5+76.50  
6+51.50  
1+39.00

6+51.50  
1+00.82  
7+52.32

100.87  
33.77  
15.02  
48.79

89.60  
76.40  
13.20

N.W. LINE BALBOA AVE

25.69

BY ONEIL  
HIGHWAY 101  
PD STATE MAP

60





SANTA FE ST 650' Nly of  
Balboa to 1200± Nly

Delim

11+70 EC

$\Delta = 110^{\circ}30'$   
 $R = 1345.20$   
 $L = 270$  } Curve Calculated  
To Run Parallel  
To Edge of State  
Access Road

9+00 BC

7+52 <sup>32</sup>

90° Lt 43.72± State Hwy Man

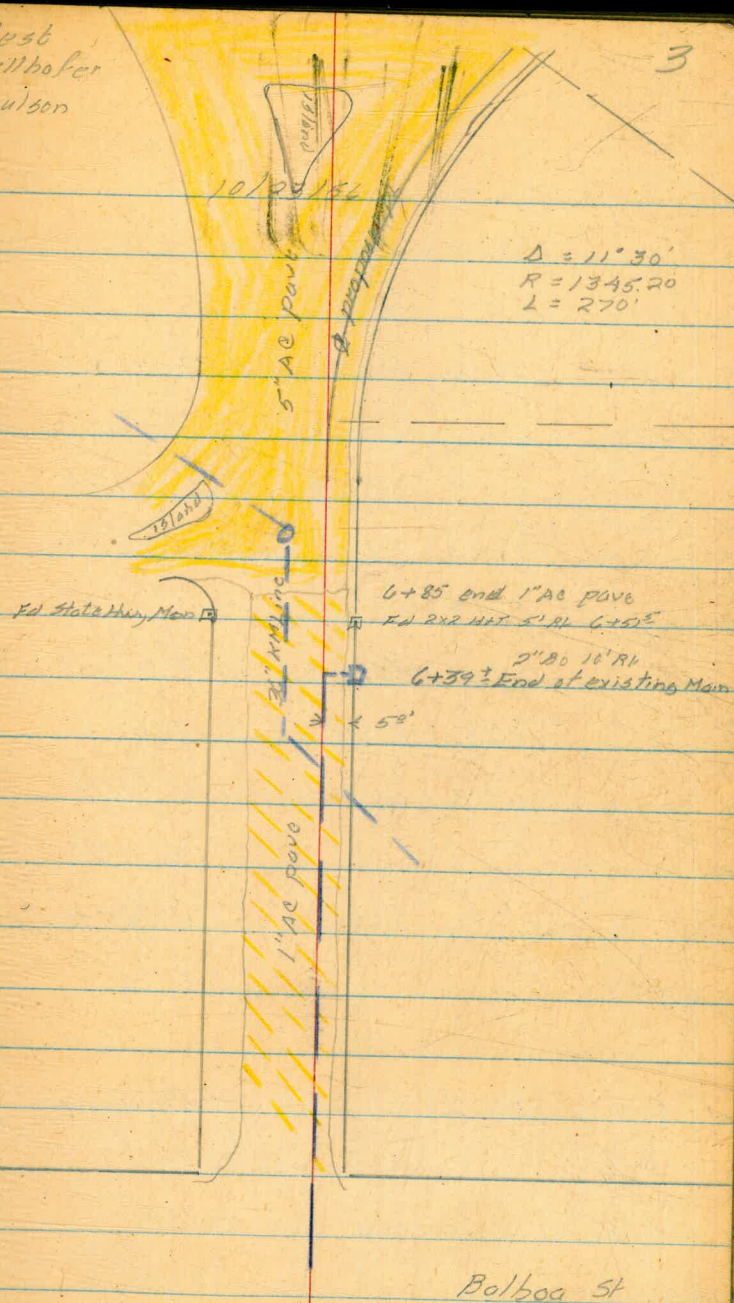
6+51 <sup>5</sup>

POT EN 2x2 H+T 5' RT

0+00

5ly prop line Balboa

West  
Kellhofer  
Paulson



$\Delta = 110^{\circ}30'$   
 $R = 1345.20$   
 $L = 270'$

6+85 end 1' AC PAVE  
EN 2x2 H+T 5' RT 6+51.5  
2' 10' 10' RT  
6+39.2 End of existing Man

Balboa St

Profile Santa Fe St

12.25 32.01 19.76

SEBP Balboa & Pacific Hwy

10.65 42.64 0.02 31.99

12.16 53.56 1.24 41.40

12.63 65.46 0.53 53.03

8.19 72.95 1.00 64.66

8.43 75.69 5.59 67.26

TBM on State Hwy Mon

0.44 65.32 10.81 64.88

0.98 53.63 12.67 52.65

1.88 42.51 13.00 40.63

0.53 31.94 11.10 31.41

12.17 19.77 = 19.76

5.28 72.54 67.26

TBM on State Hwy Mon

6+39 2.32

+51<sup>2</sup> 2.65

$\frac{2.7}{5' RT}$  edge 20 pave

7+00 4.19

2' RT to AC Cb

+52<sup>32</sup> 6.21

$\frac{6.28}{3' RT}$  base AC Cb

+72<sup>3</sup>

15' Lt to Air Valve chamber on Kearney Mesa Line

8+00 8.00

$\frac{8.08}{4' RT}$  to bolt AC Cb

+50 9.28

72.54

9400 BC

10.48

10.57

48 RT to Batt AC Ob

+50

12.22

1.03

61.69

11.88

60.66

3.91

33 RT Batt AC Ch

10400

3.76

+50

6.98

10.84

46 RT Batt AC Ch

11400

10.71

+50

13.9

+70 EC

14.8

50 RT Batt AC Ob

9.58

69.55

1.72

59.97

2.32

67.23 = 67.20

PACIFIC HWY BALBOA AVE

Ø of Large Gas Main 12' to 15' L<sub>6</sub>  
of Ø of Ely Transit Line

3° 22' RT To Forward Tang

5+36.50 P.C.C.

$\Delta = 8^{\circ} 19' 40''$

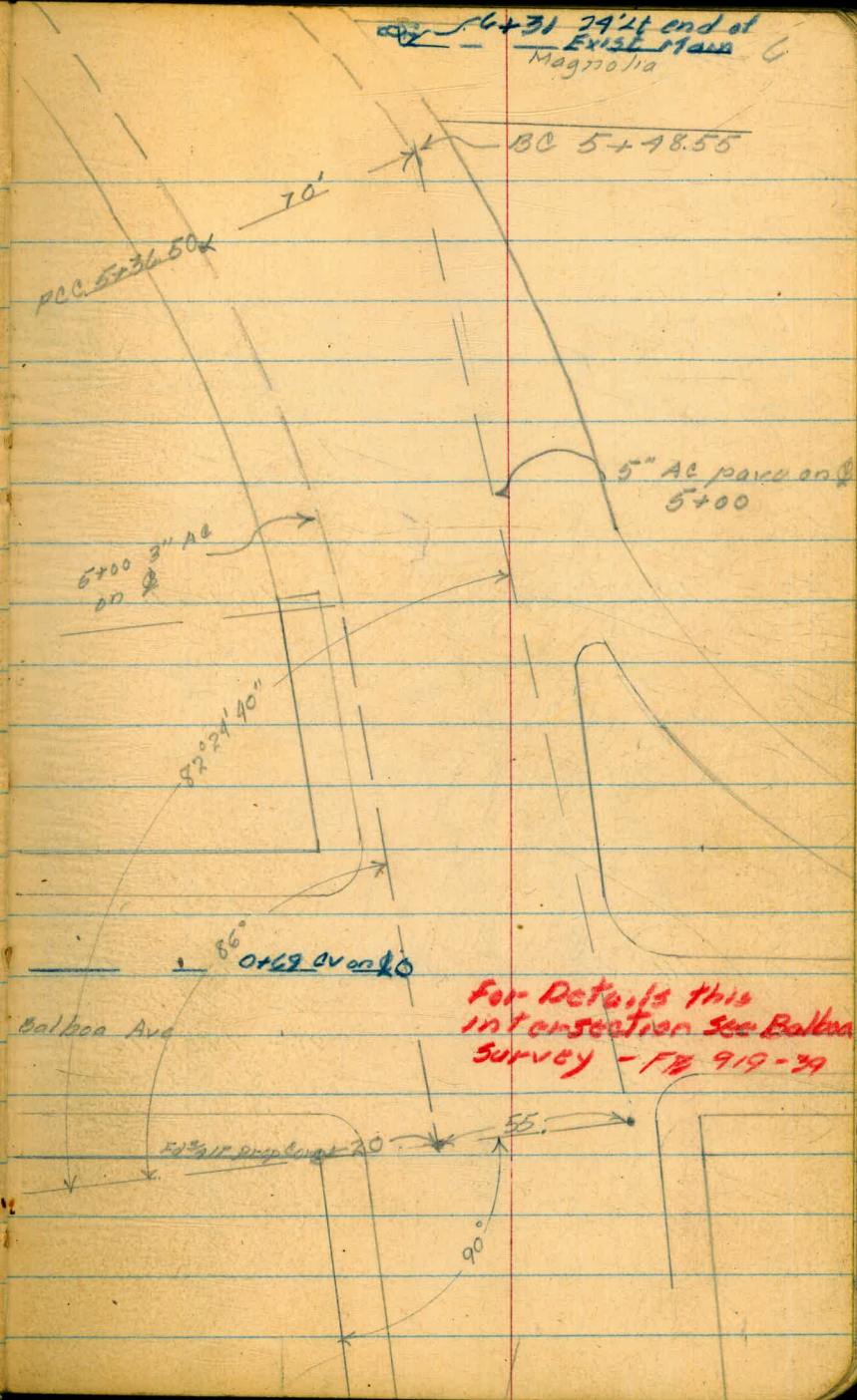
$L = 409.24$

$R = 278.68$

1+32 26 B.C.

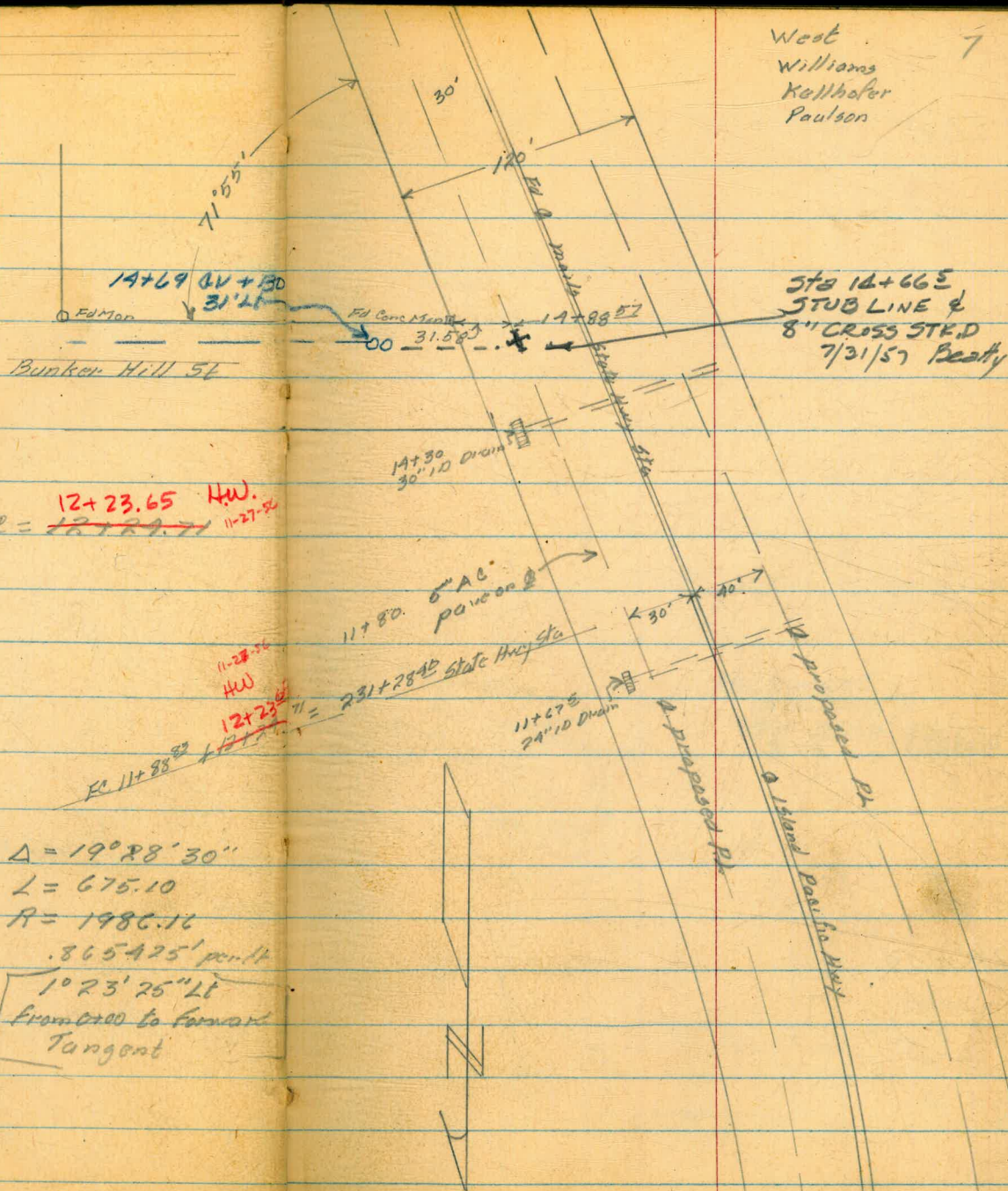
0+59 35 Pacific Hwy = 0+15 28 Balboa

@ 90° to Ely prop Pacific Hwy  
0+00 Nly Prop Line Balboa



Pacific Hwy Cont

West  
Williams  
Kellhofer  
Paulson



EC = 11+88.83

EC = ~~12+23.65~~ <sup>11-27-52</sup> ~~12+29.71~~ <sup>HW</sup>

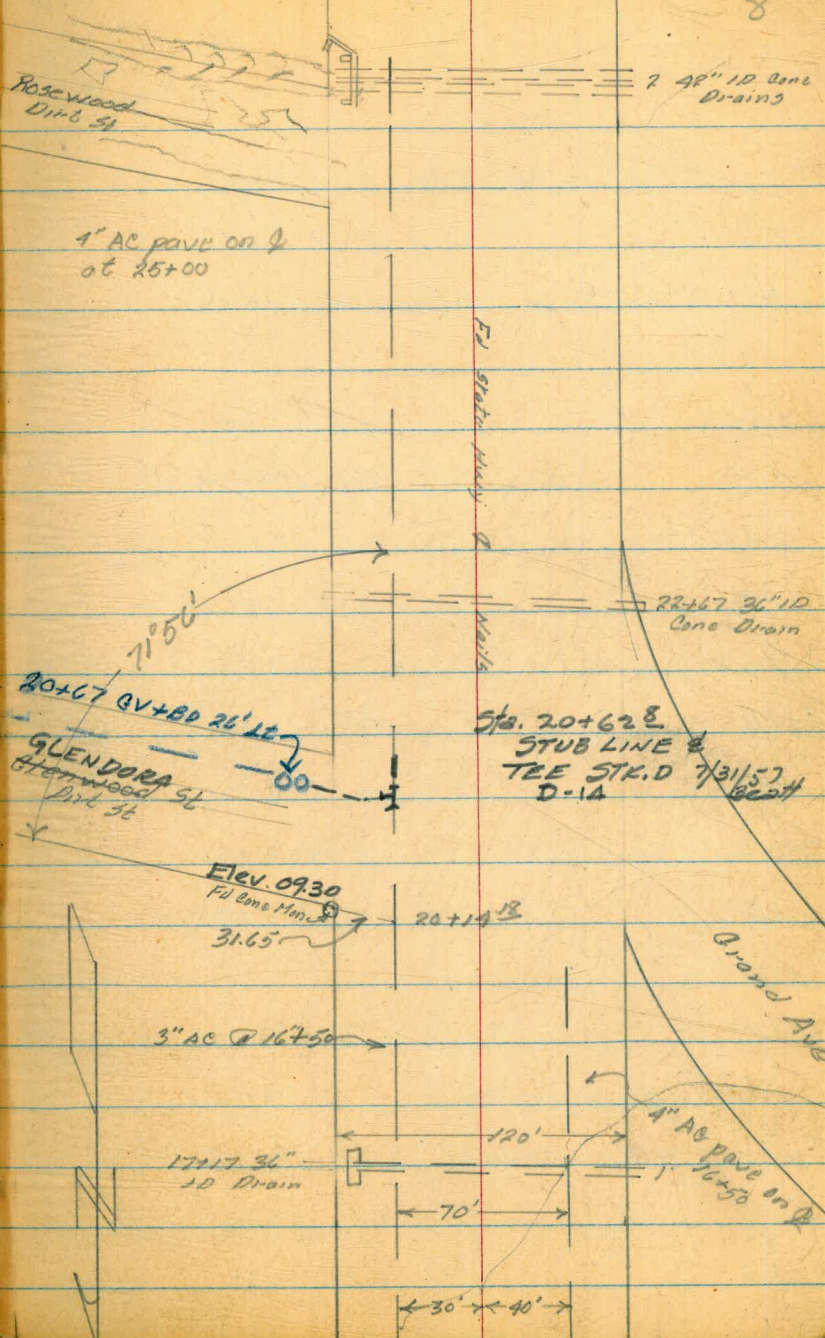
$\Delta = 190^{\circ}30'20''$   
 $L = 652.33$   
 $R = 1916.16$   
 $.89704'$  per ft

$\Delta = 190^{\circ}28'30''$   
 $L = 675.10$   
 $R = 1986.16$   
 $.865425'$  per ft

10°23'25" Lt  
 from 0+00 to forward  
 Tangent

26+67 POT = 216+50 State Hwy Sta

19+50 POT



Rosewood Div. St

2 48" ID Cone Drains

1' AC pave on 26 at 25+00

State Hwy

22+67 36" ID Cone Drain

20+67 QV+BD 26' 10"  
GLENDORA St  
Div. St

Sta. 20+62 E  
STUB LINE  
TEE STR. D 7/31/57  
D-1A

Elev. 09.30  
Full Cone Manhole

20+14 18

Grand Ave

3" AC @ 16+50

17+17 36" ID Drain

120'

4" AS pave on 19+50

70'

30' 40'

## Pacific Hwy 2 Profile

Wly Line

Reduced by  
H. Wada  
11-20-56

	1.22	20.98	19.76
0+00		2.68	18.30 ✓
+50		2.65	18.33
+89			
1+00		2.76	18.22
+50		2.95	18.03
+93			
2+00		3.33	17.65 ✓
+50		3.83	17.15
3+00		4.31	16.67
+50		4.78	16.20 ✓
4+00		5.34	15.64
+50		5.70	15.28
+65			
5+00		6.71	14.77
+48 <sup>53</sup> BC		6.72	14.26 ✓
T.P.	4.96	18.60	7.34 13.64 ✓
6+00		4.91	13.69 ✓
+43			
+50		4.69	13.91

West  
Williams  
Kellhofer  
Pauleon

9

11/8/56

SE BP Pacific Hwy + Balboa

9' RT to EC of Ch on Traffic Island

6' RT to Ch of Island

4<sup>5</sup>' RT to end of Ch of Islandof pave  
9 on edge of main pave 12' RT to edge2<sup>5</sup>' LT edge <sup>main</sup> AC pave

7' RT to Edge AC

7<sup>5</sup>' LT edge main pave2<sup>5</sup>' RT edge AC pave

10' RT Begin Ch

12' LT to edge <sup>AC pave</sup> Main7<sup>5</sup>' RT to Ch

5' RT to Ch

Beg. AC DRIVEWAY

West  
Williams  
Kellhofer  
Poulson

10

11-8-56

7+00	18.60	5.23	13.37	END A.C. DRIVEWAY	
+50		5.8	12.80	5° LT. TO EDGE A.C. PAVT.	
+97				BEG. A.C. DRIVEWAY	
8+00		5.78	12.82		
+50		5.99	12.61		
+55				END A.C. DRIVEWAY	
9+00		7.1	11.5	4.5 RT 8.9	
+50		6.9	11.7	6.12 6.2 2' 7'	
10+00		6.6	12.0	6.24 6.3 2' 9.3 6'	
+50		6.5	12.1	6° LT. TO EDGE A.C. PAVT.	
TP.	3.94	16.07	6.47	12.13	
11+00		4.2	11.87	6° LT. TO EDGE A.C. PAVT. BEG. A.C. DRIVEWAY	
+32					
+50		4.28	11.79		
+68				END A.C. DRIVEWAY	
12+00		4.8	11.27	6° LT. TO EDGE A.C. PAVT.	
+23 <sup>65</sup> BL		5.0	11.07		
+31		5.56	10.51	EAST. RIM SEWER N.H. 15' RT.	
+50		5.2	10.87		
13+00		5.6	10.47	4° LT. TO EDGE A.C. PAVT.	
+50		5.8	10.27		



		16.07 ✓			
14400			5.76	10.31	± ON EDGE AC. PAVT.
+50			5.55	10.52	± ON EDGE AC. PAVT.
+52					BEG. CONC. CURB 0.5' RT, 4" AC PAVE ON ±
+64			10.99	5.08 ✓	9' RT. TO 30" CONC. DRAIN PIPE (INVERT) <sup>XING.</sup>
15+00		HW 11/27/56	5.48 9.18	10.59 6.59	1' RT. TO GUTTER APRON - 25' RT. TO CURB.
T.P.	4.67	15.74	5.00	11.07 ✓	
+50			5.30	10.44 ✓	
16+00			5.42	10.32	45' TO GUTTER APRON - 55' TO CURB.
+50			5.57	10.23	
+78			9.74	6.00	19' RT. TO 18" CONC. STORM DRAIN PIPE (INVERT) <sup>XING</sup>
17+00			5.61	10.13	33' <sup>RT.</sup> TO GUTTER APRON - 43' <sup>RT.</sup> TO CURB.
+50 END WORK			5.70	10.04	± ON GUTTER APRON - 12' RT. TO CURB.
+53			10.90	4.84 ✓	122' RT. TO 36" CONC. DRAIN PIPE (INVERT) <sup>XING</sup>
Set T.B.M.	6.62	15.84	6.52	9.22 ✓	N.E. Prop. Conc. Man. Pacific Hwy of GLENDORA
T.P.	5.51	17.16	4.19	11.65 ✓	
T.P.	6.53	19.38	4.31	12.85	
T.P.	8.33	23.05	4.66	14.72	
			3.30	19.75 ✓	
					= 19.76 PAGE 9

## Pacific Hwy.

BALBOA TO ROSEWOOD.

## Fly Side Profile

B.M.	3.30	23.06 ✓	19.76
0+00		3.55	19.51 ✓
+45 <sup>E</sup>		3.52	19.54
+50		3.76	19.30
+69 <sup>3</sup>			
1+00		4.59	18.47
+14			
+32 <sup>26</sup> B.C.		5.08	17.98
+50		5.77	17.89
2+00		5.48	17.58
+26 <sup>E</sup>			
+50		5.83	17.23
3+00		6.20	16.86
+50		6.75	16.31
+52		6.63	16.43
4+00		7.17	15.89
+50		7.67	15.39
5+00		8.18	14.88 ✓
+36 <sup>50</sup> P.C.C.		8.58	14.58 ✓

West  
Williams  
Kellhofer  
Paulson

12

11-8-56

S.E. BR Pacific Hwy of Balboa

7' LT. To W. Rim Sewer M.H. See Balboa Ave Survey <sup>For Invert Elev</sup>

Gate Valve on 4

50' LT. To CURB.

42' LT. To GUTTER APRON - 62' LT. To CURB.

70' LT. To END. CONC CURB.

80' LT. To EDGE AC. PAVT.

40' RT. To EDGE OF STOP LIGHT SIGNAL TRAP.

80' LT. To EDGE AC. PAVT.

60' LT. To EDGE AC. PAVT.

CONT.

13

11-8-56

23.86 ✓  
 T.P. 4.29 18.53 8.82 14.24 ✓

+50 4.16 14.37 ✓

6+00 4.57 13.96

+50 5.12 13.41

7+00 5.55 12.98

+50 5.90 12.63

8+00 6.25 12.28

+50 6.54 11.99

9+00 6.74 11.79

+50 6.80 11.73

10+00 6.94 11.59

+50 7.02 11.51

T.P. 4.86 15.73 7.66 12.87 ✓

11+00 4.40 11.33 ✓

+50 4.61 11.12

+67.5 8.25 7.48 ✓

+88.83 EC. 4.65 11.08

12+00 4.65 11.08

+50 4.75 10.98

6° LT. TO EDGE AC. PAVT.

5° LT. TO EDGE AC. PAVT.

5° LT. TO EDGE AC. PAVT.

4° LT. TO EDGE AC. PAVT.

5° LT. TO EDGE AC. PAVT.

4° LT. TO EDGE AC. PAVT.

9° LT. TO 24" I.D. CONC. DRAIN KING. (INVERT)

5° LT. TO EDGE AC. PAVT.

	15.73				
13+00		4.96	10.77	5° LT. TO EDGE A.C. PAVT.	
+50		5.08	10.65		
14+00		5.26	10.47	5° LT. TO EDGE A.C. PAVT.	
T.P.	5.08	15.21	5.60	10.13	
+30			8.54	6.67	5° LT. TO 30" I.D. DRAIN PIPE (INVERT)
14+50			4.76	10.45	
15+00			4.89	10.32	6° LT. TO EDGE A.C. PAVT.
+13			4.98	10.23	26' LT. TO SEWER M.H. WEST. RIM
+50			5.01	10.20	
16+00			5.06	10.15	5° LT. TO EDGE A.C. PAVT.
+50			5.21	10.00	
17+00			5.34	9.87	5° LT. TO EDGE A.C. PAVT.
+17			9.04	6.17	6° LT. TO 36" I.D. DRAIN PIPE (INVERT)
+50			5.32	9.89	
18+00			5.48	9.73	5° LT. TO EDGE A.C. PAVT.
+50			5.58	9.63	
19+00			5.72	9.49	4 A.C. DRIVEWAY TO SERVICE STATION AT LT. <sup>30'</sup>
+39					6' LT. TO BASE OF SIGNAL LAMP.
+50			5.93	9.28	
T.P.	3.33	14.68	3.86	11.35	ON WBY BOIT OF SIGNAL LAMP 19+39 6' LT.

	14.68 ✓		
20+00	5.46	9.22 ✓	
+50	5.42	9.26	
21+00	5.57	9.11	
+50	5.64	9.04	
22+00	5.73	8.95	
+50	5.94	8.74	
+67	10.92	3.76 ✓	
+84			
23+00	6.25	8.43 ✓	
+50	6.25	8.43	
24+00	6.61	8.07	
+50	6.60	8.08	
25+00	6.76	7.92	
+50	6.87	7.81	
26+00	6.97	7.71	
+50	7.13	7.55	
+77	12.50	2.18 ✓	
+77			
27+00	7.32	7.36 ✓	
CHK. TBM.	5.43	9.25 = 9.22	

A.C. Driveway to Sea. STAT. ARE W.

6" LT. TO EDGE A.C. PART.

2 A.C. Driveway To LT.

9" LT. TO 36" ID CONC. DRAIN PIPE (INVERT)

8" RT. EDGE of Signal PAD.

6" LT. TO EDGE A.C. PART.

4 A.C. Driveway To LT.

6" LT. TO EDGE A.C. PART.

6" LT. TO EDGE A.C. PART.

5" LT. TO EDGE A.C. PART.

2 of 2 42" ID. DRAIN PIPES (INVERT)

4' LT. 25' of GRADE RAIL

5" LT. TO EDGE A.C. PART.

Page 11

How wide?





## SAN ONOFRE TERR.

Olvera Ayo to Santa Isabel Dr  
Stks for G<sup>n</sup> AC Group 103

13.04	164.81		151.77	
12.73	177.54	0.00	164.81	
12.93	190.12	0.35	177.19	
12.09	201.78	0.43	189.69	
8.68	204.06	6.40	195.38	
0+47		1.3	202.8	
+57 $\frac{2}{3}$		1.9	202.2	198.4
+68 FC + $\frac{2}{3}$		2.8	201.3	197.5
1+00		4.8	199.3	195.9
+25		6.1	198.0	194.5
+50		6.9	197.2	194.0
2+00		7.7	196.4	192.4
+06 <sup>28</sup> FC		7.8	196.3	192.8
+50		8.4	195.7	192.0
3+00		9.6	194.5	190.9
+15 <sup>85</sup> FC		10.3	193.8	190.6
+50		12.0	192.1	188.1
006	191.10	13.02	191.04	186.0
4+00		1.6	189.5	186.0

West

Paulsen

Smith

151.77

18

10/29/56

151.77 BM BP of Santa Inacia Terr. &amp; Trinidad

Begin work

C 3<sup>8</sup> 30° BendC 3<sup>8</sup> 11½ BendC 3<sup>4</sup>C 3<sup>5</sup>C 3<sup>2</sup>C 3<sup>0</sup>C 3<sup>5</sup>C 3<sup>2</sup>C 3<sup>6</sup>C 3<sup>2</sup>C 3<sup>5</sup>C 3<sup>5</sup>



191.10

4+50	4.0	187.1	183.1	C 3 <sup>2</sup>
+75	4.8	184.3	182.0	C 3 <sup>3</sup>
5+00	5.0	<sup>on 86</sup> 186.1	181.9	C 4 <sup>3</sup>
+50	5.9	<sup>on 86</sup> 185.2	181.2	C 4 <sup>2</sup>
6+00	6.4	<sup>on 86</sup> 184.7	180.7	C 4 <sup>0</sup>
+22 <sup>56</sup> pcc	7.0	184.1	180.5	C 3 <sup>4</sup>
4.77	188.99	6.88	184.22	
+50	4.7	<sup>on 86</sup> 184.3	180.2	C 4 <sup>1</sup>
+87 (A)	5.6	183.4	179.9	C 3 <sup>5</sup>
7+12 (A)	5.8	183.2	177.5	C 5 <sup>2</sup>
+30	5.8	183.2	177.5	C 5 <sup>2</sup>
+70 <sup>01</sup> 50 (A)	6.2	182.8	179.3	C 3 <sup>5</sup>
+94	6.3	182.7	179.2	C 3 <sup>5</sup>
9+00	6.1	182.9		
7+70 <sup>01</sup> Q	6.00	183.99		
7+50	6.0	183.0	179.5	C 3 <sup>5</sup>

105 ANGEL'S PL.

Trinidad Way to Lane 290' South

Stks for 6" AC

	12.69	164.46	151.77	
	12.10	176.25	0.31 164.15	
	13.22	189.31	0.16 176.09	
	12.91	201.70	0.52 188.79	
0+38			1.4 200.3	
+50			2.0 199.7 195.5	
+62			2.2 199.5 195.5	
1+00			0.4 201.3 197.3	
	3.64	204.54	0.80 200.90	
+50			1.3 203.2 199.5	
2+00			1.1 203.4 199.3	
+25			2.3 202.2 198.2	
+50			4.3 200.2 196.3	
+82 BC			7.1 197.4 193.9	
3+00			8.4 196.1 192.5	
+32			10.5 194.0 190.5	
			6.45 199.09	
0.05	198.93	5.64	198.90	
0.36	187.25	12.04	186.89	
0.53	175.23	12.53	174.70	
0.36	164.48	12.11	164.12	
		12.75	151.72 =	

West  
Kellhofer  
Paulson

20

11/2/56

BM BP on Santa Maria + Trinidad

Cut to Existing  
22' Bend Begin Work

C 4<sup>e</sup>

C 4<sup>e</sup>

C 4<sup>e</sup>

C 3<sup>e</sup>

C 4<sup>e</sup>

C 4<sup>e</sup>

C 3<sup>e</sup>

C 3<sup>e</sup>

C 3<sup>e</sup>

Cut to Exist  
BC Copper Disc 33' At 2+82 BC

151.77

MANZANARES WAY

West Subdivision Bndry to San Jacinto

STKS for 6" AC

	9.37	183.61	174.24
0+00		8.4	175.2 171.9
+50		10.7	172.9 169.0
+75		11.5	172.1 167.6
+95		12.1	171.5 167.1
1+25		11.0	172.6 167.8
+50		9.8	173.8 169.8
2+00		6.0	177.6 174.0
+50		4.7	178.9 175.0
3+00		5.1	178.5 175.0
+50		5.2	178.4 173.8
+81		5.8	177.8
	9.38	174.23 =	174.24

West  
Kellhofer  
Paulson

21

11/2/56

San Jacinto + Manzanares Way

SE Cor DISC S end of Rd

C. To EXISTING

Begin Work

c3<sup>9</sup>

c4<sup>5</sup>

c4<sup>4</sup>

c4<sup>8</sup>

c4<sup>0</sup>

c3<sup>6</sup>

c3<sup>9</sup>

c3<sup>5</sup>

c4<sup>6</sup>

End Work C To EXISTING

174.24

ORANGE AVE West of 54th  
 32 stakes for lowering existing Main

0+00 on West side of New 54th st is  
 Ely of sly prolongation of why line

3.66	355.33	-	351.67
12.19	367.10	0.42	354.91
12.50	379.29	0.31	366.79
12.60	391.63	0.26	379.03

0+00	9.5	382.1
+50	7.9	383.7
1+00	6.8	384.8

120' Ely of  
 0+00 Ely edge of New 54th alignment

0+00	4.3	387.3
+50	5.0	386.6
1+00	7.8	383.8
0.20	379.23	12.60 379.03
+50	1.4	377.8
2+00	8.4	370.8
0.60	367.40	12.43 366.80
+55 <sup>79</sup>	2.7	344.7
0.56	355.17	12.49 354.91
	3.83	351.67

West  
 Williams X  
 Kellhofer +  
 Paulsen

22

230.74 11/5/56  
 of Orange Crest 35560

WARM

BIT & LET 54th + Orange

378.2	C 3 <sup>2</sup>
381.0	C 2 <sup>2</sup>
382.0	C 2 <sup>2</sup>

382.0	C 5 <sup>3</sup>
380.3	C 6 <sup>3</sup>
377.8	C 6 <sup>2</sup>

373.8	C 4 <sup>2</sup>
368 <sup>2</sup>	C 2 <sup>2</sup>

362.0	C 2 <sup>2</sup>
351.67	

MAPLE CT

STKS For Lowering Existing Man

4.31 294.02 289.71

4.17 385.51 1268 281.34

0+00 5.1 280.4 275.1

+26 2.9 282.6 278.0

0+00 5.8 279.7

+25 5.9 279.6

10.76 394.11 216 283.35

4.41 289.70 = 289.71

West  
Williams x  
Kellhofer +  
Poulson

23

11/5/56 WARM

BM SE BP 30<sup>th</sup> + Kalmia

053 wly prop line 30<sup>th</sup> st

046

274.3 054 Top of existing Man

276.3 033

Allegheny St Rachael + Reo Dr  
 Stks for Meters Fly side 51  
 Vert Riser set 22<sup>5</sup> from 9

West  
 Williams X  
 Kellhofer +

AT 3 2211  
 1700 min

2A

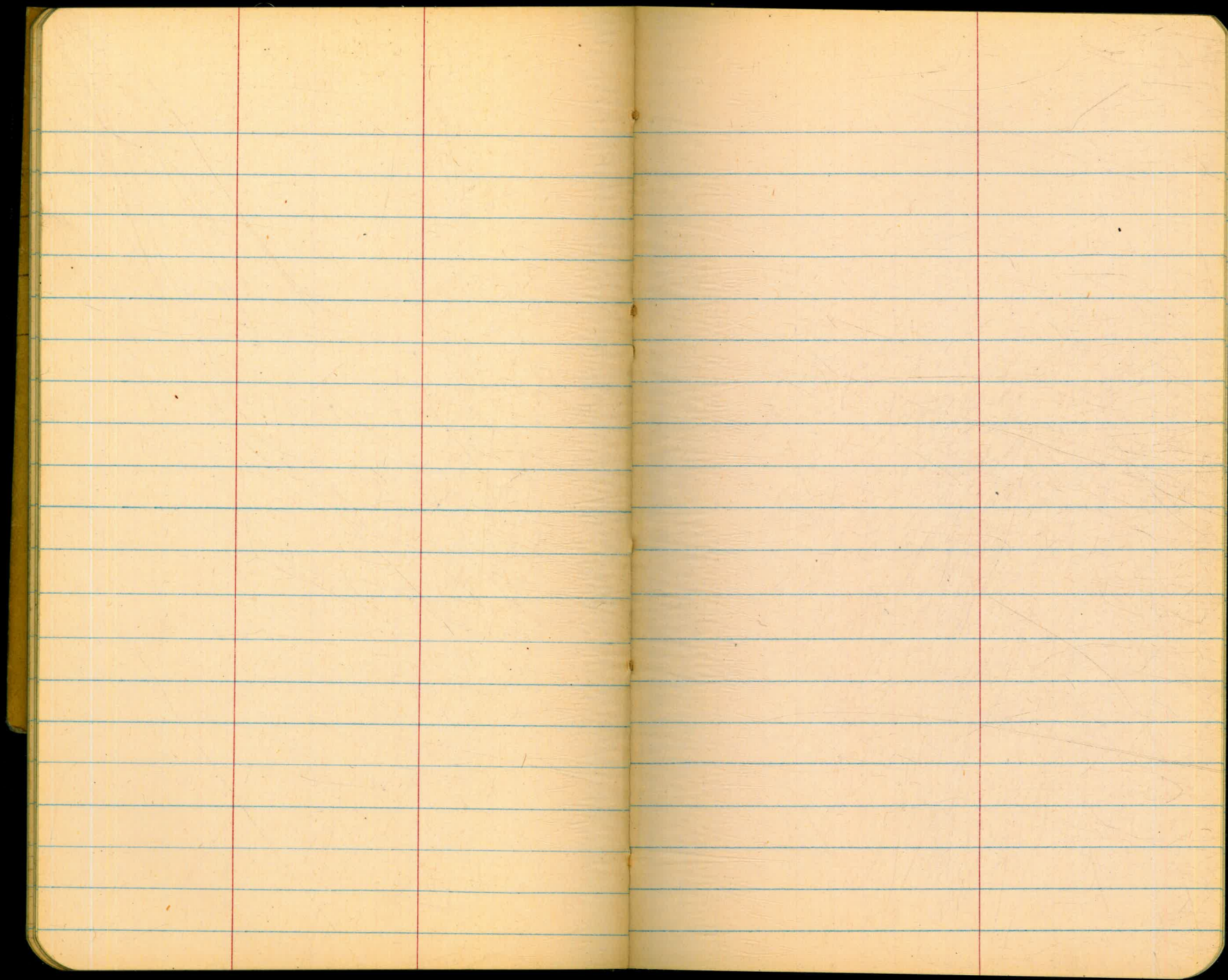
11/14/58

BM SE BP Rachael + Allegheny

	9.82	190.01		180.19		
2+64			5.1	184.9	184.7	CO <sub>2</sub> 5529
3+17			3.8	186.2	186.0	CO <sub>2</sub> 5536
3+74			2.3	187.7	187.5	CO <sub>2</sub> 5548
4+15			1.3	188.7	188.5	CO <sub>2</sub> 5604
	10.34	199.38	0.97	189.04		
5+10			8.2	191.8	190.7	CO <sub>2</sub> 5614
6+06			5.8	193.6	193.1	CO <sub>2</sub> 5628
7+04			3.9	195.5	195.5	CO <sub>2</sub> 5640
7+56			2.5	196.9	196.9	CO <sub>2</sub> 5710
9+54	12.84	211.95	0.27	199.11		
8+58			12.6	199.4	199.5	FO <sub>2</sub> 5720
9+32			10.9	201.1	201.3	FO <sub>2</sub> 5732

+0.42 212.37  
 0.12  
 218.49 = 218.5

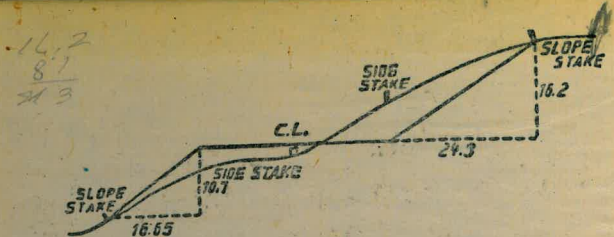
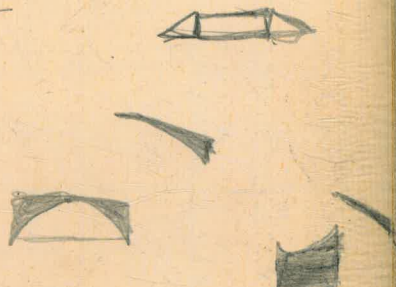






Please Return to  
 City of San Diego Water Dept.  
 Room 903 Civic Center

10.02  
 4.26  
 -----  
 14.28  
 10.7  
 -----  
 3.6



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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