

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.

MICROFILMED

APR 15 1965

849  
923  
12.74  
6

24.25  
38.49  
82.74  
41.37

TABLE IX  
MIDDLE ORDINATES OF RAILS  
Length of Rail (feet)

C o'	R Feet	30 Inch	28 Inch	26 Inch	24 Inch	22 Inch	20 Inch	C o'	R Feet	30 Inch	28 Inch	26 Inch	24 Inch	22 Inch	20 Inch
0-20	17189	.08	.07	.06	.05	.04	.03	8	716.8	1.88	1.64	1.42	1.20	1.01	.84
0-40	8594	.16	.14	.12	.10	.08	.07	9	637.3	2.12	1.84	1.60	1.35	1.14	.94
1-0	5730	.24	.20	.18	.15	.13	.10	10	573.7	2.36	2.05	1.78	1.50	1.27	1.04
1-20	4297	.31	.27	.23	.20	.17	.13	11	521.7	2.59	2.26	1.95	1.65	1.39	1.15
1-40	3438	.39	.34	.29	.25	.21	.17	12	478.3	3.83	2.47	2.15	1.81	1.54	1.26
2-0	2865	.47	.41	.35	.30	.25	.20	13	441.7	3.05	2.66	2.30	1.96	1.66	1.36
2-20	2456	.55	.48	.41	.35	.29	.23	14	410.3	3.30	2.87	2.48	2.10	1.78	1.46
2-40	2149	.63	.55	.47	.40	.33	.27	15	383.1	3.54	3.08	2.68	2.26	1.91	1.57
3-0	1910	.71	.62	.53	.45	.38	.31	16	359.3	3.76	3.28	2.83	2.40	2.04	1.67
3-20	1719	.78	.68	.59	.50	.42	.35	17	338.3	4.00	3.48	3.02	2.57	2.16	1.78
3-40	1563	.86	.75	.65	.55	.46	.38	18	319.6	4.21	3.67	3.18	2.70	2.28	1.87
4-0	1433	.94	.82	.71	.60	.50	.42	19	302.9	4.45	3.89	3.36	2.86	2.41	1.98
4-20	1323	1.02	.89	.77	.65	.55	.45	20	287.9	4.70	4.09	3.55	3.00	2.54	2.09
4-40	1228	1.10	.96	.83	.70	.59	.48	22	262.0	5.16	4.44	3.84	3.30	2.80	2.29
5	1146	1.18	1.03	.89	.75	.63	.52	24	240.5	5.64	4.92	4.20	3.59	3.04	2.50
6	955.3	1.41	1.23	1.06	.90	.76	.62	26	222.3	6.07	5.29	4.58	3.88	3.29	2.70
7	819.0	1.65	1.44	1.24	1.05	.89	.73								

TABLE X  
SHORT RADIUS CURVES

Radius Feet	Chord Feet	Central Angle	Deflection Angle	Deflection for 1 Foot
35	10	16-26	8-13	49.3
45	10	12-46	6-23	38.3
50	15	17-16	8-38	34.5
60	15	14-22	7-11	28.8
75	15	11-30	5-45	23.0
100	20	11-30	5-45	17.3
120	20	9-34	4-47	14.3
150	20	7-39	3-49	11.5
190	25	7-32	3-46	9.15
200	25	7-10	3-35	8.6
225	25	6-25	3-12	7.7
240	25	5 58	2-59	7.2
250	25	5 44	2-52	6.9
275	25	5-12	2-36	6.2
288	50	9-58	4-59	6.0
300	50	9-32	4-46	5.7
350	50	8-12	4-06	4.9
376	50	7-40	3-50	4.6
400	50	7-10	3-35	4.3
410	50	7-00	3-30	4.2

To find length of curve divide angle from P. C. to P. T. by central angle of chord, and multiply by length of chord.

TABLE XI  
INCLINED DISTANCE OF 100 FT. REDUCED TO HORIZONTAL.

Slope	Horizontal Distance	Correction	Rise	Slope	Horizontal Distance	Correction	Rise
0°00'	100.000	0.000	0.000	8°00'	99.027	0.973	0.199
15'	99.999	0.001	0.004	15'	98.965	1.035	0.143
30'	99.996	0.004	0.009	30'	98.902	1.098	0.148
45'	99.991	0.009	0.013	45'	98.836	1.164	0.152
1 00	99.985	0.015	0.017	9 00	98.769	1.231	0.156
15	99.976	0.024	0.022	15	98.700	1.300	0.161
30	99.966	0.034	0.026	30	98.629	1.371	0.165
45	99.953	0.047	0.031	45	98.556	1.444	0.169
2 00	99.939	0.061	0.035	10 00	98.481	1.519	0.174
15	99.923	0.077	0.039	15	98.404	1.596	0.178
30	99.905	0.095	0.044	30	98.325	1.675	0.182
45	99.885	0.115	0.048	45	98.245	1.755	0.187
3 00	99.863	0.137	0.052	11 00	98.163	1.837	0.191
15	99.839	0.161	0.057	15	98.079	1.921	0.195
30	99.813	0.187	0.061	30	97.992	2.008	0.199
45	99.786	0.214	0.065	45	97.905	2.095	0.204
4 00	99.756	0.244	0.070	12 00	97.815	2.185	0.208
15	99.725	0.275	0.074	15	97.723	2.277	0.212
30	99.692	0.308	0.078	30	97.630	2.370	0.216
45	99.657	0.343	0.083	45	97.534	2.466	0.221
5 00	99.619	0.381	0.087	13 00	97.437	2.563	0.225
15	99.580	0.420	0.092	15	97.338	2.662	0.229
30	99.540	0.460	0.096	30	97.237	2.763	0.233
45	99.497	0.503	0.100	45	97.134	2.866	0.238
6 00	99.452	0.548	0.105	14 00	97.030	2.970	0.242
15	99.406	0.594	0.109	15	96.923	3.077	0.246
30	99.357	0.643	0.113	30	96.815	3.185	0.250
45	99.307	0.693	0.118	45	96.705	3.295	0.255
7 00	99.255	0.745	0.122	15 00	96.593	3.407	0.259
15	99.200	0.800	0.126	15	96.479	3.521	0.263
30	99.144	0.856	0.131	30	96.363	3.637	0.267
45	99.087	0.913	0.135	45	96.246	3.754	0.271

For each foot take one one-hundredth of each reading.

TABLE XII  
MINUTES IN DECIMALS OF A DEGREE.

0'30''	.00833	10'30''	.17500	20'30''	.34167	30'30''	.50833	40'30''	.67500	50'30''	.84167
1 00	.01667	11 00	.18333	21 00	.35000	31 00	.51667	41 00	.68333	51 00	.85000
30	.02500	30	.19167	30	.35833	30	.52500	30	.69167	30	.85833
2 00	.03333	12 00	.20000	22 00	.36667	32 00	.53333	42 00	.70000	52 00	.86667
30	.04167	30	.20833	30	.37500	30	.54167	30	.70833	30	.87500
3 00	.05000	13 00	.21667	23 00	.38333	33 00	.55000	43 00	.71667	53 00	.88333
30	.05833	30	.22500	30	.39167	30	.55833	30	.72500	30	.89167
4 00	.06667	14 00	.23333	24 00	.40000	34 00	.56667	44 00	.73333	54 00	.90000
30	.07500	30	.24167	30	.40833	30	.57500	30	.74167	30	.90833
5 00	.08333	15 00	.25000	25 00	.41667	35 00	.58333	45 00	.75000	55 00	.91667
30	.09167	30	.25833	30	.42500	30	.59167	30	.75833	30	.92500
6 00	.10000	16 00	.26667	26 00	.43333	36 00	.60000	46 00	.76667	56 00	.93333
30	.10833	30	.27500	30	.44167	30	.60833	30	.77500	30	.94167
7 00	.11667	17 00	.28333	27 00	.45000	37 00	.61667	47 00	.78333	57 00	.95000
30	.12500	30	.29167	30	.45833	30	.62500	30	.79167	30	.95833
8 00	.13333	18 00	.30000	28 00	.46667	38 00	.63333	48 00	.80000	58 00	.96667
30	.14167	30	.30833	30	.47500	30	.64167	30	.80833	30	.97500
9 00	.15000	19 00	.31667	29 00	.48333	39 00	.65000	49 00	.81667	59 00	.98333
30	.15833	30	.32500	30	.49167	30	.65833	30	.82500	30	.99167
10 00	.16667	20 00	.33333	30 00	.50000	40 00	.66667	50 00	.83333	60 00	1.00000

## INDEX

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77	SUBGRADES BALBOA VISTA DR & SEIFERT		

See Sheet 18

Lt.

±

Rt.

①

ROUGH GRADES ALLEY BIK B  
BALBOA VISTA.

INDETER

1+03

RE6752

0+82.76 = 2" Sub. Bdy Pipe Set R.P. Hub 25' Ely

C 0.03  
300.56  
300.53

C 1.20  
302.03  
300.83

0+63

C 0.42  
300.72  
300.30

C 1.52  
302.12  
300.60

40

C 1.18  
301.26  
300.08

299.83

C 2.35  
302.73  
300.38

0+23.11

(see G-320-P911) (see Sheet 18)

0+00 = B.C.N.E. Ch. Ret. Alley-B & Laurel

13.23 d = 55.9529  
R = 30.72

At 0+00 Def. Lt. 12° 20' 15"

C 0.68  
300.63  
299.95  
10

299.70

C 1.74  
301.99  
300.23  
10

0-13.23° N.E.

C 0.55  
300.27  
299.72  
11.75

299.66

300.25  
10.85

B.M.

303.48 ± P.I. on Laurel St see G-320

12

GRADES ALLEY BLK B

3+43

C 0.20  
302.07  
301.87

C 0.51  
302.68  
302.17

40

3+03

F 0.25  
301.40  
301.65

C 0.78  
302.73  
301.95

40

T.P. P.K. in Pole #273045 303.19  
2+63

F 0.60  
300.82  
301.42

C 1.00  
302.72  
301.72

40

2+23

F 0.58  
300.62  
301.20

C 1.18  
302.68  
301.50

40

1+83

F 0.65  
300.32  
300.97

C 1.45  
302.73  
301.28

40

1+43

F 0.89  
299.86  
300.75

C 1.36  
302.41  
301.05

40

GRADES ALLEY BLK B

6+03		F 0.57 313.39 313.96	C 0.87 315.13 314.26
PK, PPN <sup>o</sup> P. 170667			
T.B.M. Sewer Sta 5750 ± (Sec G 323)	310.03		
50		F 0.48 309.11 309.59	C 0.62 310.51 309.89
5+53			
		F 0.24 306.27 306.51	C 1.04 307.85 306.81
5+13			
		F 0.14 304.10 304.24	C 1.53 306.07 304.54
4+73			
		F 0.48 302.30 302.78	C 1.31 304.39 303.08
4+33			
		F 1.20 300.95 302.15	C 0.40 302.85 302.45
40			
3+93			
50'			

3482.764 2" Rps Sub - Adj RF 6752 - Set R.P. Hubs 25' & 25' R 44

GRADES ALLEY BLK B

Lt. Rt. (4)

8+33

F 0.76  
23.77  
324.53

C 1.36  
26.19  
324.83

8+13



F 0.55  
24.23  
324.78

C 1.74  
26.82  
325.08

8+07.46 P.O.T. Tied # 50 # 25 #

7+73

F 0.74  
23.84  
324.58

C 1.75  
26.63  
324.88

7+33

F 0.22  
23.22  
323.44

C 2.13  
25.87  
323.74

6+93

F 0.67  
20.69  
321.36

C 1.53  
23.19  
321.66

6+53

F 0.85  
17.48  
318.33

C 2.24  
20.87  
318.63

T.P.  
50

319.09



GRADES ALLEY BIK B

11+13 End Curb on Lt.

CO.32  
1654  
316.22      315.97      316.52  
cb

40

FO.13  
1912      C3.25  
319.25      2280  
319.55

10+73

40

FO.65      C2.36  
2016      2347  
320.81      321.11

10+33

TP

320.16

FO.62      C2.14  
2112      2418  
321.74      322.04

9+83

FO.78      C1.53  
2189      2450  
322.67      322.97

9+33

F1.55      C1.18  
2205      2508  
323.60      323.90

8+83

50

GRADES ALLEY BLK B

⑥

	Lt.	Ct.	
Curb	Gut	Gut	Curb

opposite sta 10+33  
 B.M. P.N. 170664 Lt. Side Alley "B" 314.22 ~ 314.21 (See Pg. 28)

T.B.M. 321.66

11+40.03 E.C. Curb Ret. S. 313.99 314.82 316.70

cb. R=2'  $\angle = 90^{\circ}06'30''$  Lt.  $\angle = 89^{\circ}53'30''$  Rt.  
 11+38.03 = B.C. Cb Ret. S.  $\angle = 3.14'$  314.25 316.06 316.46

519 PL. Olive St.  
 11+33.04 End Curb on Rt. 314.35 313.95 314.92 316.16 316.56

Curb  
Rough

4. (See Sheet 17)  
Curb 9-10-54

INDEXED

PAVING GRADES FAULKNER ST. FROM  
BLACKTON DRIVE NELY TO 55-TH. ST.

1+85.19 = B.C.N.W. Ch. Ref. Alley-H. (see sht. 20)  
CBE = 5'4" = 89°45'30"

F0.63  
21.28  
321.91  
CO<sup>01</sup>  
21.92  
321.91  
514  
321.82

1+50

F1.09  
318.10  
319.19  
FO<sup>09</sup>  
19.10  
319.19  
319.09

T.P.

317.32

1+25

F0.47  
316.77  
317.24  
CO<sup>08</sup>  
17.32  
317.24  
317.14

0+99.56

CO.21  
315.51  
315.30  
CO<sup>06</sup>  
15.36  
315.30  
315.29

31.48

0+68.08 = E.C.N.E. Ch. Ref. Blackton H

C1.00  
138.80  
312.80  
C1.20  
14.00  
312.80  
313.87

0+00 = W. Line Blackton Drive

B.M.

313.46

313.40  
2201 Chis/Cross & Blackton & S. Ch. Faulkner  
12

Curb Lt. E Lt Curb (8)  
 Rough Curb 9-10-59

GRADES FAULCONER ST.

3+00

F1.21  
 F0.97 F0.19  
 329.88 30.66  
 330.85 330.85 330.75

2+75

C0.10  
 29.00  
 328.90

2+50

F1.19 C0.02  
 325.77 26.98  
 326.96 326.96 326.86

2+34.81

T.P.

326.22

C0.18

B.C. Ch Ret Alley-H

323.96 29.19  
 323.96 W19

4=900/4'30 CbR=5'  
 2+15.19 = EC. NE Ch Ret Alley-H.

F0.80 C0.19  
 323.45 24.44  
 324.25 324.25 324.15  
 5/4

Hubon & Alley H + My Line Faulconer tied to PK N 1/4 } Alley extended  
 20' South of hub + chisel 'x' in drive 50' South of Hub

2+00.19 = E Alley-H

30.

E.C. N.W. Ch Ret Alley-H

F0.29  
 22.11  
 322.40 322.40  
 E14'

GRADES FAULCONER ST.

1+60.24  
 TP 347.58  
 1+40.24  
 1+20.24  
 1+00.24  
 0+80.24  
 0+52.74  
 $\Delta = 90^{\circ}14'30''$  Cb. R = 36.99'  
 0+25.24 = E.C. Cb. Ret. N.E. Faulconer & 55th  
 (see G-320 for Cb. Ret Elev's)  
 0+52.74  
 0+00 = & Faulconer & Ely Line 55th  
 Cb R = 20' =  $89^{\circ}45'30''$   
 3+32.15 = B.C. N.W. Cb. Ret. 55th & Faulconer  
 (see G-320) For Cb. Ret.

B.M. 334.72

Lt.      Rt.      (9)

Curb      Curb  
 Rough      Curb

C.I. 35      FO<sup>13</sup>  
 352.18      5070  
 350.83      350.83      350.59

FO<sup>08</sup>  
 49.32  
 349.40

C.I. 54      FO<sup>40</sup>  
 349.52      47.58  
 347.98      347.98      347.69

FO<sup>14</sup>  
 45.98  
 346.12

C.I. 67      FO<sup>37</sup>  
 345.92      43.88  
 344.25      344.25      343.96

FO<sup>32</sup>  
 41.05  
 344.37

C.I. 16      FO<sup>29</sup>  
 340.65      38.45  
 338.49      338.49      338.21

F.I. 17  
 332.16  
 333.33      333.33      332.72

334.74 Top 3ly Christ Cross Sewer M.H  
 55th & Faulconer

GRADES FAULKNER ST.

	Curb Rough	Curb	Left	Right	Curb
		4.62	FO.24		
4+00	354.02	49.16			
	349.40	349.40	349.07		
3+80.22		FO.03			
		50.42			
		350.45			
3+60.44	c 3.87	FO.05			
	355.37	51.45			
	351.50	351.50	351.21		
3+40.34		FO.08			
		52.25			
		352.33			
3+20.24	c 3.18	FO.37			
	56.34	52.79			
	353.16	353.16	352.87		
3+00.24		CO.17			
		53.71			
		353.54			
2+80.24	c 2.23	FO.02			
	356.16	53.91			
	353.93	353.93	353.64		
2+60.24		FO.10			
		53.76			
		353.86			
2+40.24	c 1.61	FO.01			
	355.46	53.78			
	353.79	353.79	353.50		
2+20.24		FO.03			
		53.24			
		353.27			
2+00.24	c 1.29	FO.12			
	354.04	52.58			
	352.75	352.75	352.46		
1+80.24		FO.27			
		51.52			
		351.79			

GRADES FAULCONER ST.

$\angle = 89^{\circ}45'30''$   
 E.C. NW Cb Ref. Falconer & Balboa Vista

4/5  $71^{\circ}48'24''$

3/5  $53^{\circ}51'18''$

2/5  $35^{\circ}54'12''$

1/5  $17^{\circ}57'06''$

CBR=32'  $\angle = 89^{\circ}45'30''$  L=  
 1445.25 = BC NW Cb Ref. Balboa Vista &  
 = P.L.B.C. Falconer

4+22.62

Curb  
 Rough

Curb

Curb

FD<sup>10</sup>

C 3.37  
 349.55 49.45  
 349.55

FD<sup>03</sup>

C 4.19  
 348.28 48.25  
 348.28

LO<sup>06</sup>

C 4.78  
 347.36 47.42  
 347.36

LO<sup>04</sup>

C 4.97  
 346.82 46.86  
 346.82

FO<sup>02</sup>

C 5.12  
 346.65 46.56  
 346.65

C 5.12 FO<sup>02</sup>

352.11 46.90  
 346.99 346.99 346.61

FO.24

47.95  
 348.19

Lt. &  
(See Sheet 17)

Curb  
Depth  
FO. 45

GRADES FAULCONER ST.

NE. Curb Ref. Faulconer & Balboa Vista Dr  
B.C.  $\Delta = 90^{\circ}14'30''$

49.10  
349.55

4/5  $\Delta = 72^{\circ}10'36''$

60.19  
4814  
347.95

3/5  $\Delta = 54^{\circ}07'42''$

60.91  
4761  
346.70

2/5  $\Delta = 36^{\circ}05'48''$

61.23  
4713  
345.90

1/5  $\Delta = 18^{\circ}02'54''$

61.29  
4684  
345.55

5+45.25 cb. R=32'  $\Delta = 90^{\circ}14'30''$  L=50.40  
E.C. Curb Ref. Faulconer & Balboa Vista Dr  
=P.L.E.C.

60.57  
4622  
345.65



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GRADES BALBOA VISTA DRIVE

1+40.17 P.O.C. Def $\Delta$  = 9°33'43" 362.68  
 20' c = 19.99

1+20.17 Def $\Delta$  = 7°00'56"  
 20' c = 19.99

1+00.17 P.O.C. Def $\Delta$  = 4°28'08"  
 17.55 c = 17.55 TP. 54.88

0+82.62 P.O.C. Def $\Delta$  = 2°14'04"  
 17.55 TP. 353.67

0+65.07 =  $\phi$  B.C. L = 254.67 d = 7.6394  
 L $\phi$ R = 225'  $\Delta$  = 64°51' T = 142.93

Set 2x2 PP Hubs To  $\phi$  B.C. 35' 65'

$\Delta$  = 90°14'30" Cb R = 32' Falconer & Balboa Vista

NOTE: See Pg 12 for cb. Set.

0+40 0.42

$\Delta$  = 89°45'30" Cb R = 32' Falconer & Balboa Vista

0+51.79 = E.C. N.W. Cb Ret. Balboa Vista

NOTE: See Pg 11 for Cb. Ret.

0+20 Balboa Vista = 50' Curbs = 36'

0+00 =  $\phi$  Falconer & Balboa Vista Dr

0+00 fd. Put Nail in d.c.  $\phi$  Balboa Vista & Falconer

4-29-59 T.A.S. 1 1/2" Pipe

Ed. Nail  $\phi$  Balboa Vista (outlet) 1 1/2" Pipe

47.47 87.36

B.M. 48.175 45.2412

From Nail

ct. (See Sheet 13) E ct. (13)

Curb Rough curb 9-2-54 Curb Rough Curb

CO. 92	FO 43		FO 12	C-1.06
364.03	62.68		63.31	364.49
363.11	363.11	363.23	363.43	363.43
	FO 13	62.81	FO 03	
	60.37		60.70	
	360.50		360.73	
C-1.34	FO.28		FO.24	F-1.36
358.78	57.16		57.32	356.120
357.44	357.44	357.46	357.56	357.56
	FO.26	57.04	FO.41	
	54.26		54.16	
	354.52		354.57	
C-2.81	CO. 01		FO.52	F-2.30
354.41	51.61		50.97	349.29
351.60	351.60	351.56	351.59	351.59
		51.14		

FO 45

9.10

349.55 349.55

05

48.42

347.40

90

47.62

FO 10

9.45

349.55 349.55

45.30

344.88

44.80

345.08

Top FH SW COR Timothy & Falconer

2165 / 13 (348.94)

GRADES BALBOA VISTA DRIVE

E.C. + 5' = Wly P.L. Balboa Vista & Alley G

Curb  
C009  
8.25  
368.16

LT C Rt Curb (19)  
9-2-54 Curb Rough

E.C. NW. Ch Ret. Alley G & Balboa Vista

C0.02  
8.08  
368.06  
E14

$\Delta = 90^\circ 33' 32''$  Ch. R = 2' L = 3.16  
1 + 98.11 = E.C. NW. Ch. Ret. Alley G & Balboa Vista

F0 11  
8.08  
368.19  
514

368.36  
67.94

$\Delta 33.31$  C = 33.28  $\Delta$  Def L =  $16^\circ 56' 21''$

1 + 95.90 def L =  $16^\circ 39' 28''$

F0 37  
65.90  
366.27

E.C. + 6.52 = Wly P.L. Balboa Vista & Alley G

( $\Delta$  Alley Only 1 + 82.93) def L =  $15^\circ 00' 23''$

F0 72  
5.08  
365.80  
N14

F0 26  
67.17  
367.43

1 + 80.17 - Rt. def L =  $14^\circ 39' 18''$

E.C. S.W. Ch. Ret. Alley G

$\Delta = 64^\circ 50' 41''$  Ch. R = 2' L = 2.25  $\Delta$  def L =  $12^\circ 41' 53''$

F0 60  
5.08  
365.68  
E14

1 + 64.80 = B.C. S.W. Ch. Ret. Alley G, F & W.

(see Sheet 20)

$\Delta 4.63$  C = 4.63  $\Delta$  Def L =

365.28

F0 10  
65.57  
365.67  
365.16  
365.67

1 + 60.17 P.O.C. Def L =  $12^\circ 06' 30''$

365.44

65.02

$\Delta 20'$  C = 19.99'

T.P. 363.75

# GRADES BALBOA VISTA DRIVE

4+00.17 P.O.C. Defc = 6° 08' 40"  
 20' PRC W/40' RP TBM, 366.97 ~ 367.00  
 3+80.17 P.O.C. Defc = 4° 37'  
 20'  
 3+60.17 P.O.C. Defc = 3° 05' 19"  
 20.22'  
 3+39.95 P.O.C. Defc = 1° 32' 38"  
 70' PRC. 40.21' ~ 40.51'  $\frac{1}{2}$   
 5 of 2 x 2 RP Hubs 40' 40'  $\frac{1}{2}$   
 PRC.  $\frac{1}{2}$  = 64° 51',  $\frac{1}{2}$  L = 424.44' d = 4.5836  
 3+19.74  $\frac{1}{2}$  R = 375 T = 238.21'  $\frac{1}{2}$  Defc = 32° 25' 36"  
 19.79'  
 2+99.95 P.O.C. defc = 29° 54' 25"  
 19.78  
 39.57' C = 39.58'  
 2+80.17 P.O.C. Defc = 27° 23' 19"  
 20'  
 40' C = 39.95'  
 2+60.17 P.O.C. defc = 24° 50' 31"  
 20'  
 2+40.17 P.O.C. defc = 22° 17' 44"  
 20'  
 2+20.17 P.O.C. defc = 19° 44' 57"  
 40' C = 39.95'  
 20'  
 2+00.17 P.O.C. defc = 17° 12' 10"  
 2.07' C = 2.07

Curve Rough	Curve 9-02-54	Curve Rough	Curve Rough
F0.01	F0.38	F0.22	C 5.12
362.94	62.57	6308	368.42
362.95	362.95 ~ 363.09	363.30	363.30
	F0.11	F0.20	
	64.23	64.41	
	364.34	364.61	
F0.55	F0.51	F0.13	C 3.59
365.19	65.23	65.79	369.51
365.74	365.74 ~ 365.79	365.92	365.92
	F0.10	C 0.46	
	66.65	67.27	
	366.75	366.81	
F0.21	F0.22	C 0.27	C - 3.29
367.26	67.55	67.96	370.98
367.77	367.77 ~ 367.69	367.69	367.69
	F0.02	C 0.30	
	68.42	68.78	
	368.44	368.48	
F0.22	F0.40	C 0.02	C - 3.12
368.89	68.71	69.31	372.39
369.11	369.11 ~ 369.15	369.27	369.27
	F0.26	F0.17	
	69.31	69.67	
	369.57	369.84	
F 0.68	F0.14	F0.14	C - 2.31
368.91	69.45	69.80	372.25
369.59	369.59 ~ 369.73	369.94	369.94
	F0.16	F0.04	
	68.99	69.53	
	369.17	369.57	
Grade (C 0.05)		F0.02	C - 2.01
368.38		68.65	370.75
368.32	(368.32) 368.49	368.74	368.74
	omit		

# GRADES BALBOA VISTA DRIVE

cb. Ref.  
(See Sheet 20)

$\Delta = 89^\circ 42' 36''$  Cbr = 2' L = 3.13'  
= E.C.N.W. Ch Ref. Alley G  
5+23.17 = P.O.C. Defc =  $15^\circ 32' 27''$

$\Delta 22.79'$  C = 22.79'

E.C. + 5' = Wly Pl. Balboa Vista & Alley G

E.C.S.W. Alley Ch Ref.

$\Delta = 86^\circ 48' 26''$  Cbr = 2' L = 3.03'  
= B.C.S.W. Ch Ref. Alley G N+5ly  
5+00.38 = P.O.C. Defc =  $13^\circ 48'$

$\Delta 20.21'$  C = 20.21'

4+80.17 P.O.C. Defc =  $12^\circ 15' 21''$

20' TP 358.34

4+60.17 P.O.C. Defc =  $10^\circ 43' 40''$

20' 359.12  
4+40.17 P.O.C. Defc =  $9^\circ 12' 00''$

20' 359.38  
 $\Delta 20'$  C = 20.00'  
4+20.17 P.O.C. Defc =  $7^\circ 40' 20''$

Lt. Rt. (16)

Curb  
Rough

Curb

9-2-54

Curb

Curb  
Rough

FO<sup>15</sup>  
501.2  
350.27 350.27 350 49 5090 355.77  
Ely 350.79 350.79

F1<sup>22</sup>  
52.44  
352.66 352.66  
PL.

FO<sup>70</sup>  
1.86  
352.56 352.56  
Nly.

FO<sup>87</sup>  
1.86  
352.73 352.73 352.94 5337 353.24  
Ely

F1<sup>28</sup> FO<sup>67</sup> FO<sup>08</sup> C-15.17  
353.74 54.35 55.44 360.69  
355.02 355.02 355.23 355.52 355.52

CO<sup>02</sup> FO<sup>06</sup>  
57.24 57.62  
357.20 357.68  
FO<sup>26</sup> FO<sup>54</sup> C-4.57  
359.12 59.04 59.30 364.51  
359.38 359.38 359.57 359.84 359.84

CO<sup>11</sup> FO<sup>23</sup>  
61.27 61.34  
361.16 361.57

# GRADES BALBOA VISTA DRIVE

6+80.17 P.O.C. Def $\angle$  = 27° 32' 04"

20' TP 340.21

6+60.17 P.O.C. Def $\angle$  = 26° 00' 24"

20' 6+40.17 P.O.C. Def $\angle$  = 24° 28' 43"

20' 6+20.17 P.O.C. Def $\angle$  = 22° 57' 03"

20' 6+00.17 P.O.C. Def $\angle$  = 21° 25' 23"

20' 5+80.17 P.O.C. Def $\angle$  = 19° 53' 42"

20' 5+60.17 P.O.C. Def $\angle$  = 18° 22' 02"

18.50 ↑ ~~37' 8" = 30' 28"~~ TP 349.34

B.C. + 5' = Wly P.L. Balboa Vista & Alley G

18.50 ↓ 5+41.67 Rt. Only P.O.C. Def $\angle$  = 16° 57' 20"

18.50 ↑ B.C. N.W. Cb Ref. Alley G

Curb  
Rough

Curb

9-02-54

Curb

Curb  
Rough

(17)

F6.75	CO <sup>08</sup>		F0.15	c-3.18
331.55	38.38		38.97	342.30
338.30	338.30	338.67	339.12	339.12

	CO <sup>07</sup>		F0.59	
	39.49		39.58	
	339.42		340.17	

F8.02	CO <sup>34</sup>		CO <sup>03</sup>	CO.87
332.52	40.88		41.26	342.10
340.54	340.54	340.85	341.23	341.23

	FO <sup>04</sup>		FO <sup>33</sup>	
	41.88		42.25	
	341.92		342.58	

F7.66	CO <sup>07</sup>		FO <sup>50</sup>	c-2.43
335.65	43.38		43.43	346.36
343.31	343.31	343.58	343.93	343.93

	CO <sup>04</sup>		FO <sup>25</sup>	
	45.02		45.32	
	344.98		345.57	

F5.04	FO <sup>06</sup>		CO <sup>08</sup>	c 2.56
341.61	46.59		47.29	349.77
346.65	346.65	346.89	347.21	347.21

	FO <sup>26</sup>			
	50.24			
	350.59	350.50		

	FO <sup>21</sup>		CO <sup>26</sup>	
	48.45		49.26	
	348.44		349.00	

	FO <sup>37</sup>			
	50.12			
	350.49	350.49		

	51.4			
--	------	--	--	--

GRADES BALBOA VISTA DRIVE

			LT.	RT.
			Curb Rough	Curb Rough
24.91			F 1.93 326.71	FO <sup>05</sup> 285.9
8+80.17			328.64	329.10
40' T.P.		331.98		
			F 1.63 329.52	CO <sup>02</sup> 31.17
8+40.17			331.15	331.61
40'				
			F 2.83 330.49	FO <sup>05</sup> 33.27
8+00.17			333.32	333.78
40'				
			F 3.90 331.26	FO.32 34.84
7+60.17			335.16	335.60
16.00'				
			F 4.81 331.25	FO.15 35.61
P.O.C. 7+44.18	def L = 32° 25' 30"		335.76	336.19
24.01	C = 24.01'			
			F 4.93 331.72	CO.18 36.83
7+20.17	P.O.C. Def L = 30° 35' 25"		336.65	337.08
20'				
40' C = 20.00'				
7+00.17	P.O.C. Def L = 29° 03' 44"			
20'				

FO<sup>10</sup> C-6.12  
9.54 335.76  
329.64 329.64

FO<sup>17</sup> C 7.41  
31.98 339.58  
332.15 332.15

CO<sup>39</sup> C-6.71  
34.70 341.02  
334.31 334.31

CO<sup>06</sup> C 5.35  
36.18 341.47  
336.12 336.12

FO<sup>15</sup> C 4.87  
336.55 341.57  
336.70 336.70

Grade C-4.29'  
37.59 341.88  
337.59 337.59

CO<sup>07</sup>  
37.88  
337.47  
38.42  
338.35

GRADES BALBOA VISTA DRIVE

$CBR = 36.19' \angle = 132^{\circ} 53' 20'' L = 83.94'$   
 $0+92.33 = N.E. Ch. Ret. Balboa Vista \& Laurel$   
 (0+91.46 = P.L.E.C. for Ch. Ret. Grades See G-320 P9 22)  
 $43.33' TP. 356.49$   
 $0+49.00$   
 $CB.R = 65.43' \angle = 50^{\circ} 48' 10'' L = 58.02$   
 ~~$0+69.57 = E.C. N.W. Ch. Ret. Balboa Vista \& Laurel$~~   
 (for Ch. Ret. Grades See G-320 P9 19)

Balboa Vista is 60' St. from Laurel Nly.  $Ch.S = 36'$   
 $0+00 = N.W. P.L.E.C. Balboa Vista = 34.85' N. of Laurel$   
 $P.L.R = 50' \angle = 50^{\circ} 48' 10''$

(P.L.B.C. 10+00.20 Sisson-2165) (Rec. P.L.B.C. 9+99.87)  
 $Ch.R = 30.32' \angle = 68^{\circ} 59' 43'' L = 36.51' Ch.T = 20.84'$   
 $10+04.57 = B.C.S. E. Ch. Ret. Balboa Vista \& Laurel$   
 (for Ch. Ret. Grades See G-320-18)

$30.69'$   
 $CBR = 32.59' \angle = 104^{\circ} 15' L = 59.30'$   
 $9+73.88 = B.C.S. N. Ch. Ret. Balboa Vista \& Laurel$   
 (For Ch. Ret. See G-320-16)  
 (P.L.B.C. = Sta. 9+72.05 Sisson) (Rec. 9+71.72)  
 $21.94$   
 $9+51.94$   
 $21.94$   
 $9+30$

$24.92'$   
 $9+05.08$

Lt. & Rt. (See Sheet 13)  
 Curb Rough  
 Curb 8-26-54 Curb  
 Curb Rough

Grade	Curb
F0.50	
F1.94	
357.52	
359.50	
F5.19	
348.92	
354.11	
F4.39	
343.10	
347.49	
F0.50	
F0.37	
59.87	
357.50	37
360.57	
F0.03	
3.97	
354.76	
F0.19	
47.30	
347.49	
Grade	Curb
60.59	360.85
360.59	360.59
C0.24	C4.28
23.59	323.33
323.35	323.35
C0.69	
7.31	
24.24	
323.55	323.55
C0.30	
25.28	
324.98	
F0.02	C4.48
26.39	330.89
326.41	326.41
F4.76	
320.52	
325.28	
F0.44	
24.84	
325.28	325.78
F0.32	
26.59	
326.91	
F0.06	
27.96	
328.02	





Curv. Lt. Rt. Curv. 8-26-54 Curv. Curv. Rough

GRADE BALBOA VISTA

(Parallel to 418' from Rt. cb.)  
5+50.59 ± = E.C. Rt. Ch. defc = 7° 14' 45"

CO 19 c-2.06  
464 376.51  
374.45 374.45

14.59' c = 74.58' 3' 5k cb = 12.20'

CO 28 c-2.34  
74.58 376.64  
374.30 374.30

5+36. P.O.C. ± Rt. Ch 3° 38' 30"

15' c = 74.99' 3' 8k cb = 72.32'

± T = 15.00' d = 14.5667  
± R = 118' ± L = 29.59' cb - L = 25.29' cb. T = 12.74'

LO 19  
FO 15

CO 47 c-2.54  
74.63 376.70  
374.16 374.16

5+21 = B.C. Curv Rt. Ch R = 100' ± = 142930"  
(See Pg 22 for 45th)  
Ahead

374.01 374.01 374.08  
3.86  
3.67 3.66

21'

FO 06 FO 10 CO 11 c-2.28  
378.36 73.32 74.02 376.19  
373.42 373.42 373.78 373.91

5+00

25'

4+75

25'

4+50

FO 18 FO 26  
72.94 73.41  
373.72 373.61  
FO 01 FO 05 c-2.30  
371.94 72.84 3.27 375.62  
372.83 372.83 373.16 373.32 373.32

4+25

4+00

25

3+75

25'

FO 32 FO 32  
72.22 3.14  
372.54 373.03  
FO 72 Grade CO 18 c-3.74  
371.53 72.25 2.92 376.48  
372.25 372.25 372.54 372.74 372.74  
CO 17 CO 11  
72.12 2.55  
371.95 372.44

GRADES BALBOA VISTA

Curb  
 Road  
 Curb  
 8-26-54  
 Curb  
 Curb  
 Road

1/2 P.O.C. SW, Ret.  $\alpha = 45^{\circ} 03' 15''$

C-1.93  
 376.26  
 374.33  
 FO<sup>08</sup>  
 4.25  
 374.33

1/4 P.O.C. SW, Ret.  $\alpha = 22^{\circ} 31' 37''$

C-2.16  
 376.41  
 374.25  
 CO<sup>06</sup>  
 4.31  
 374.25

T.P.

374.18

C-1.59  
 375.68  
 374.09  
 CO<sup>09</sup>  
 74.18  
 374.09  
 73.88  
 374.30

EO<sup>01</sup>  
 75.31  
 375.30

Ch. R = 371'  $\alpha = 90^{\circ} 06' 30''$  L = 58.19'  
 (5+54.10)  $\alpha$  Sta = B.C. S.W. Ch. Ret. Balboa Vista  
 (Sisson) (5+56.13 Rec) & Seifert St.  
 Pl. B.C. = (5+61.13 Rec) = (5+62.10 Sisson) (see Sheet 16 ch. ret)

36.10 - contd from Sta 5+21 P<sub>21</sub>

E.C. S.E. Ch. Ret. Seifert & Alley Opening E.C. +9.30

E.C. +9.39  
 FO<sup>22</sup>  
 4.95  
 375.17

(Parallel to 4/18' W/4 of Pt. Ch.) cbr = 4'  $\alpha = 75^{\circ} 24' 16''$  L = 5.26'  
 6+21.03 = B.C. S.E. Ch. Ret. Balboa 1/2 Sta Alley  
 (see Sisson)

FO<sup>32</sup>  
 4.95  
 375.27  
 CO<sup>07</sup>  
 375.30  
 375.27

17.61'

6+03.42

17.61'

5+85.81 P.O.T. Rt. Ch

FO<sup>26</sup>  
 74.80  
 375.06  
 CO<sup>09</sup>  
 74.95  
 374.86  
 C-1.51  
 376.37  
 374.86

17.61'

5+68.20

CO<sup>06</sup>  
 4.71  
 374.65

17.61'

Corb

Lt. & Rt.

(23)

8-26-54

Corb

GRADES BALBOA VISTA ST.

6+17.10

F 0.04

374.75  
374.79

74.86  
375.28

Raise # 0.25

Elev. Top 18" P.P.C. 371.72

10' Et. E

5+96 = Water. M.H. Balboa Vista. 18" Line

375.02 374.79 374.53

Fingv  
over 40

1.24 80

T.B.M. on 30' tie out PL Radius SWly cor (To Wly) Seifert + Balboa Vista  
372.99  
373.09  
373.01 OK.

$\alpha = 90^{\circ} 06' 30''$

E.C. R. & Corb Ref SW. Balboa Vista & Seifert

C-1.37 FO 18  
375.57 402  
374.20 374.20

C-1.67 FO 02  
375.97 423  
374.30 374.30

3/4

$\beta = 67^{\circ} 34' 53''$

INDEXED

PAVING GRADES SEIFERT ST.  
BALBOA VISTA. (see sheet 16)

E.C. +5' = S/4 P.L. Seifert & S.W. Alley C

E.C. S.W. Ch Ref Seifert & Alley C

Ch R = 2' A = 90° 06' 30"  
0+98.05 = B.C. S.W. Ch Ref. Seifert & Alley C

0+48.85 TP. 360.58

0+50 TP. 351.58

0+25  
= Ch. E.C. Ch R = 37' A = 89° 53' 30"  
0+00 = SE P.L. E.C. & Seifert St. 455.10  
(NOTE: For Ch Ref Elev's @ Seifert & 55th. See G-320-51)

B.M.

Curb  
Rough

Curb

Lt.

±

Rt.

(39)

Curb

Curb  
Rough

FO.52

383  
364.35 364.48

FO.12

63.80  
363.92 364.32

C-1.62 CO.17

366.11 4.66  
364.49 364.49 364.20

CO.51

60.58  
360.07

FO.41 CO.30

354.60 55.81  
355.51 355.51 355.22

FO.22

50.55  
350.77

FO.19

60.40  
63.80 364.39  
363.99 363.99

FO.05

59.52  
359.57

FO.14 C-2.71

54.87 357.92  
355.01 355.01

FO.16

50.71  
350.27

C-3.78

346.03 346.03 345.74 345.53 345.53

49.25

PAVING GRADES SEIFERT ST.

Corb  
Rough

Corb

Corb

Corb  
Rough

2+20.03 = B.C. S.W. Pl. & Cb Ret. Seifert & Balboa Vista  
(NOTE: For Cb. Ret. Grades See Pg. 22)

1+97.50  
45.03

1+72.4  
1+75 Rb

1+65.5

1+35

T.P.

368.98

E.C. + 5 = End Cb. & 5/4 Pl. Seifert & W 1/4 Pl. Alley-C

E.C. SE. Cb Ret Seifert & Alley-C

$\Delta = 89^{\circ} 53' 30''$  Cb R = 2'

1+22.05 = E.C. SE. Cb. Ret. Seifert & Alley-C

24'

Corb Rough	Corb		Corb	Corb Rough
F0.03	CO <sup>09</sup>		F0 <sup>18</sup>	
374.67	7479		7402	
374.70	374.70	374 41	374.20	374.20
	F0 <sup>05</sup>		F0 <sup>21</sup>	
	7432		7666	
	374.37		373.87	
	F0 <sup>01</sup>		F0 <sup>05</sup>	F0.27
F0.82	7324		7287	372.65
372.60	373.25	373 13	372.92	372.92
373.42	F0.16		CO <sup>05</sup>	
	7164		1.35	
	371.80		371.30	
	F0.10		F0.40	F1.07
F0.68	6978		368.98	368.29
267.10	369.88	369.59	369.38	369.38
369.88				
			F0 <sup>20</sup>	
			6213	
			367.33	367.33
			F0 <sup>29</sup>	
			66.94	
			367.23	367.23
	F. 2.26		F0.55	F0.73
	365.73		66.94	366.76
	367.99	367.99	367.49	367.49
		367.70		

PAVING GRADES SEIFERT ST.

3+27.11' on tangent  
3+28.05 = End Curb

13.94

3+14.11 E.C. Def  $\angle = 12^\circ 13' 18''$

7.73' C = 8.36' = 3' bk cb

3+06.38 Def  $\angle = 6^\circ 06' 39''$

7.74 C = 8.36' 3' bk cb.

Def  $\angle = 12^\circ 13' 18''$

2+98.64 = P.R.C. (Curve Data Same As B.C.)

7.73 C = 7.70 C = 7.08' 3' bk cb

2+90.91 Def  $\angle = 6^\circ 06' 39''$

7.74 C = 7.71 C = 7.08' 3' bk cb.

d = 47.4171 T = 7.85'

~~A~~@ cb. line Lt.  $\angle = 24^\circ 26' 36''$  L = 15.47'

2+83.17 = B.C. Lt. Cb. ChR = 36.25

33.17

2+50

30'

Rough

Curb

F 4.68  
370.52  
375.20

F 3.24  
371.90  
375.14

F 1.35  
273.72  
375.07

C 0.10  
375.10  
375.00

C 0.02  
374.86  
374.84

Curb  
F 1.65  
73.55  
375.20

F 1.17  
73.97  
375.14

F 0.15  
74.95  
375.10

F 0.10  
74.97  
375.07

F 0.07  
74.96  
375.03

F 0.14  
74.86  
375.00

C 0.06  
4.90  
374.84

Lt. Rt.

Curb

INDIVIDUAL

LT. E RT

4-26-54

Curb

Conv  
Road

(27)

PAVING GRADES OLIVE ST. FROM

54-TH. ELY

2+00

290 12

291.15

CO.21

9136

291.15

T.P.

59.87

288.65

CO.44

6.97

$\angle E + 03 = 98^{\circ}06'30''$   
1+40.13 =  $\angle$  Alley "A" Set P.K. in Part.  
(N 100.09')

285 44

286.53

286.53

1+00

282 31

283.44

CO.84

84.28

283.44

0.0

0+75

281.51

CO.62

0+50

278 41

279.58

81.20

279.58

24.72

CO.243

0+25.28 = E.C.S.E. Cb. Ref. Olive & 54-th

277.63

277.67

80.18

277.67

cb. Face = 23'-Rt.

Fd. L. & Disk  $\angle$  54-th + My Line Balboa Disk  
0+00 = Ely Line 54-th. St. = 40'E.  $\angle$  54-th

B.M.

288.86

Nail in Pole N<sup>o</sup> 584568-H 9'-Rt.  $\angle$  Sta 8+78 Alley "A"

G-320-72

GRADES OLIVE ST.

Curb

Curb  
Rough

$\angle E \text{ to } S = 90^{\circ} 06' 30''$   
4+80.33 =  $\angle$  Alley "B" & Olive

314.29 315.31 315.31

C 1.69

17.00

Set. Pk. E. side Pole S.W.

T.B.M. P-17064.3 Alley B & Olive 314.21

C 0.95

13.09

4+50

311.09 312.14 312.14

C 1.10

8.83

4+00

305.36 307.73 307.73

T.B.M.

305.30 ~ 305.30 TOP S.E. P.W.E.C. 3/4" Pipe Blackton & Olive

$\angle = 89^{\circ} 53' 30''$  R=25' cb=5' W/4 R=32'  
3+65.25 = S.E. P.L. Ret. F.C. Blackton & Olive

300.02 304.74 304.74

C 0.62

536

3+20.30

$\angle E \text{ to } S = 90^{\circ} 06' 30''$   
3+10.30 =  $\angle$  Blackton & Olive Set. 2x2 Hub & TR.

299.51 F 0.64

99.45

300.09 300.09

$\angle = 90^{\circ} 06' 30''$  R=25' cb, R 5' Ahead = 32'  
2+55.25 = P.L. B.C. S.W. Ret. Blackton & Olive

294.43 F 0.21

95.23

295.44 295.44

T.B.M.

295.66  
296.44 ~ 296.42 Pole Moved



GRADES OLIVE ST.

B.M.

334.02

(G-320-60)

(R4.)

334.00 Top S.W. 25' Radius Hub Olive & 55th

6+20.35 = Wly Line 55-th St.

334.92  
331.92

335.30 335.30

A = 90° 06' 30" R = 25' Cb. R = 321 = 5' Fl 4  
5+95.30 = B.C. 15 W. P.L. Ret Olive & 55th

331.70

330.10 330.10

T.P. Top Stub 5+95.30 - 5' Bk Pl. Rt.

332.81

C 2.90  
27.62

5+50

324.72

324.72 324.72

T.P.

323.32

C 1.82  
19.68

5+00

317.50

317.86 317.86

Corb

4-26-57

Corb

Corb  
Rough

INDEXED

Lt. & Rt.

(30)

Rough

4-29-59 Rough

Fin.

9-11-59 finish

Emb

Rough

PAVING GRADES EAST & WEST ALLEY "G"

BALBOA VISTA

TR.

344.00

C 0.34

C 0.09

C 1.90

C 1.93

39.92

39.67

41.78

41.81

0+60

339.58

339.58

339.88

339.88

C 1.25

C 1.25

C 2.26

C 2.63

38.32

38.32

39.63

39.90

0+40

337.07

337.07

337.37

337.37

C 2.35

C 2.38

C 2.42

C 3.10

36.45

36.48

36.82

37.50

0+20

334.10

334.10

333.85

334.40

334.40

F 0.19

C 0.06

30.85

31.78

0+00 = 4 Alley & Fly Line 55th St.

331.04

331.04

330.80

331.72

331.72

Curb

Curb

Curb

Curb

F 0.72

30.12

0-10 = E.C. Curb Ret's

330.84

330.84

330.74

331.52

331.52

Curb

Curb

Curb

Curb

B.M.

334.74

Top of 5/4 Chisel Cross M.H. Rim 55th & Falconer

PAVING GRADES E. & W. ALLEY "G"

			C 2.95	C 2.99		C 0.60	C 0.70
			5777	5781		55.72	55.82
2+20			354.82	354.82		355.12	355.12
			C 3.45	C 3.47		C 1.50	C 1.51
			56.37	56.39		54.72	54.73
2+00			352.92	352.92		353.22	353.22
				C 3.55		C 2.12	
TP 1+72.50		354.73		53.76		52.53	
				50.21		50.41	
TP		351.37	C 3.32	C 2.16		C 2.81	C 4.59
			50.82	49.66		50.41	52.14
1+45 = Fly Line N. & S. Alley			347.50	347.50		347.60	347.60
				C 2.71		C 2.96	C 3.88
				49.66		50.41	51.33
Tied 50' & 100' Sly of E Alley			346.95	346.95		347.45	347.45
1+35 = E N & S Alley G							
			C 1.06	F 0.49		C 1.51	C 2.73
			48.26	46.76		48.31	50.03
1+25 = Wly Line N & S Alley			347.20	347.20		347.30	347.30
				err. Nly & 2' Wly			
			C 0.56	C 0.62		C 1.48	C 1.91
			44.83	44.89		45.92	46.35
1+00			344.27	344.27		344.44	344.44
TP		341.95					

PAVING GRADES E. & W. ALLEY - "G"

4+42<sup>39</sup>  
 cb. R = 2'  $\phi$  = 90° 33' 32"

B.C. N.W. Ch. Ret. Alley "G" & Balboa Vista (90° Lt. to Center)

4+30

4 Lt. 33° 04' 30"  
 @ cb. 0° 00' = Alley Line Produced.

4+37.12 = Wly Line Balboa Vista Begin Curb

39

4+17.12

4+00

3+50

TP

3+00

TP

2+50

Lt.  $\phi$  Rt.

9-11-54

(32)

368.06 368.06

6'      69.00  
 368.16      368.16  
 cb      cb

C 2.06      C 2.02      FO 35      FO 79  
 68.56      68.52      65.85      65.41  
 366.50      366.50      365.95      366.20      366.20

C 2.49      C 2.27      Grade      FO.26  
 67.79      67.57      65.00      64.74  
 365.30      365.30      364.75      365.00      365.00

C 2.58      C 2.48      FO 20      CO.02  
 65.23      65.13      62.40      62.64  
 362.65      362.65      362.60      362.60

359.78  
~~36~~

C 2.75      C 2.23      FO.41      FO.64  
 62.74      62.22      59.78      59.55  
 359.99      359.99      360.19      360.19

362.14

C 2.41      C 2.07      FO.16      FO.49  
 59.56      59.22      57.29      56.96  
 357.15      357.15      357.45      357.45

4-29-54

curb

PAVING GRADES E. & W. ALLEY - "G"

T.B.M.

± Hub ± Balboa Vista  
367.52 ~ 367.47 P.R.C. Sta 3+12.74 2098  
78

365.18 365.68  
Gut. cb

E.C. S.W. cb ret. Alley G & Balboa Vista

cb R = 2' ± = 64°50'41"

4+55.78 = B.C. S.W. cb ret. Alley G & Balboa Vista  
45

365.40 365.80  
Gut. cb

cb L = 2' (to center) ± = 64°50'41"

4+48.66 = W 1/4 line Balboa Vista & P. Alley "G" W 1/4  
93

F 0.23  
65.80  
366.12 366.27  
Gut. cb

T.B.M.

Set. P.P. 2x2" Hub 75' E. of ± Alley 4+42.89 541 367.80

4+42.89 = ± Alley "G" & W 1/4 line Balboa Vista  
43 54 M.

366.90

Tied 74<sup>35</sup> Ely of W. line Balboa Vista & ± Alley

E.C. N.W. cb. Ref. Alley G & Balboa Vista

368.19 368.19  
cb cb

INDEX

7.1954

Lt.

E

Rt

(34)

PAVING GRADES NORTH &amp; SOUTH.

ALLEY "G" BALBOA VISTA.

Tied 54.86 Nly 44.0' Wly

1+58.93 = E P.L. &amp; Rt. = 55° 57' 49"

	F 1.76			
	46.57			
348.13	348.13	347.88		

1+4.93 = E P.L. &amp; Rt. = 55° 57' 49"

F 0.25 F 0.05

1+53.62 = L P.L. 10 P.L. on Rt.

348.04	348.04	347.79	48.18	48.38
			348.43	348.43

17'

	F 3.73	F 0.81	F 0.35	F 0.02
	44.15	47.07	47.83	48.16

1+37.

347.88	347.88	347.63	348.18	348.18
--------	--------	--------	--------	--------

1+00.

	F 2.07	F 0.79	F 0.63	F 0.37
	45.63	46.91	47.37	47.63
347.70	347.70		348.00	348.00

0+50

	F 2.45	F 0.39	C 0.37	C 0.21
	45.00	47.06	48.12	48.66
347.45	347.45		347.75	347.75

0+00 = 1+35 Nly Side E. + W. Alley "G"

	F 1.73			Grade
	345.57			347.50
347.20	347.20	346.95	347.50	347.50

B.M.

334.74

(see Pg 30)

PAVING GRADES N. 45. ALLEY - "G"

E.C. Curb Ref's			350.27	349.77	350.97	352.23 Gut	352.73 Cb
B.C. Curb Ref's	Rt. $\angle = 86^\circ 48' 26''$ cbr = 2' Lt. $\angle = 89^\circ 42' 36''$ cbr = 2'		350.49 Cb	349.99 Gut	351.10	352.25 Gut	352.56 Cb
+5'							
+36.92 Sly RL			F3.36	F3.24		60.82	F6.05
+36.66			47.26	47.26		52.27	52.00
2+36.44 = NWly P.L. Balboa Vista Drive			350.59 Cb	350.50 Gut	351.10	352.05 Gut	352.66 Cb
Line Hub to Alley "G" Set on Ely Line Balboa Vista							
			F5.40	F0.54		60.48	F0.61
2+17			47.76	49.62		50.94	350.48
			350.16	350.16	349.91	350.46	350.46 Gut
			F6.00	F0.79		F0.14	Grade
1+77			42.55	47.76		48.71	48.85
			348.55	348.55	348.30	348.35	348.85
			F6.24	F1.36			
1+64			348.24	46.88			Same as BK Tent
			348.24	348.24	347.99		

INDEVEN

(36)

PAVING GRADES 56-TH STREET.

1+91.66 BALBOA VISTA def $\angle$  = 28° 58' 45"  
 20'

1+71.66 P.O.C. def $\angle$  = 25° 23' 53"  
 20'

1+51.66 P.O.C. def $\angle$  = 21° 49' 02"  
 20'

1+31.66 P.O.C. def $\angle$  = 18° 14' 10"  
 20'

1+11.66 P.O.C. def $\angle$  = 14° 39' 19"  
 25.83' C = 25.80'

0+85.83 P.O.C. def $\angle$  = 10° 01' 49"  
 25.83' C = 25.80'

0+60 P.O.C. def $\angle$  = 5° 24' 20"  
 15.10"

0+44.90 P.O.C. def $\angle$  = 2° 42' 07"  
 15.09

B.CRT.  $\angle R = 160'$   $\angle T = 132.94'$

0+29.81  $\angle = 79° 26' 45''$   $L = 221.95'$   $d = 10.742952$

Corb Rough	Corb	8-31-54	Corb Rough
C-2.44	C0.18		FO.12
392.91	90.65		9080
390.47	390.47	390.74	390.97
	C0.64		Grade
	1.27		91.13
	390.63		391.13
C-1.78	C0.05		F&O.35
392.57	0.84		90.94
390.79	390.79	391.06	391.29
	C0.01		C0.14
	90.11		90.74
	390.10		390.60
C0.04	FO.01		C0.24
389.46	89.41		0.16
389.42	389.42	389.69	389.92
	C0.06		C0.44
	88.00		88.92
	387.94		388.48
F 3.44	C0.21		C0.22
383.12	86.77		87.27
386.56	386.56	386.82	387.05
	C0.12		FO.08
	85.94		86.13
	385.72		386.21
F 4.02	FO.06		C0.09
380.86	84.82		85.42
384.88	384.88	385.15	385.38
	C0.53		C0.44
F 3.32	83.60		C-1.29
379.75	83.60		84.32
383.07	383.07	383.50	383.88
	10' Prop		10' Prop
	Hub		Hub
	F 2.29		C-2.58
	on 5' br		5' br

29.81

4 N to W 79° 26' 45"

0+00 =  $\angle$  56-th St. & Ely Line Balboa Vista

50' Normal P.L.

50.86 = Width P.L. Along Balboa Vista

36.62' = " CURB " " "

36' Normal " "

B.M. on 3/4" Pipe 25' rt station 2+51.66

F 3.32	C0.53		C0.44
379.75	83.60		84.32
383.07	383.07	383.50	383.88
	FR 2165-15		CRON 3/4" Pipe 56 COR
	EC-RE 2718-FL = 392.97		fence at 1+79.5



PAVING GRADES 56-TH ST.

Curb Rough Curb Lt. Rt. Curb Rough  
8-27-54

4+11.66		F 2.77 370.63 373.40	CO <sup>10</sup> 3.50 373.40	373.67	Grade 73.90 373.90	FO.24 373.66 373.90
40'		F 3.71 372.31 376.08	CO <sup>10</sup> 76.18 376.08	376.35	FO.26 76.32 376.58	F 1.96 374.22 376.58
3+71.66	TOP F Hyd. Ely Side T.B.M. 56-TH ST. Sta 3+52 40'					379.97
3+31.66		F 3.86 375.58 379.44	CO.13 9.57 379.44	379.71	FO <sup>02</sup> 9.92 379.94	C-1.57 381.51 379.94
40						
2+91.66		F 1.92 381.20 383.13	CO <sup>22</sup> 83.35 383.13	383.40	C 1.14 84.77 383.63	C-2.59 386.24 383.63
40						
2+51.66	40' RR TO E.C. T.B.M. 56-TH ST. W14 E.C. def $\angle$ = 39° 43' 22.5"	F 0.14 386.69 386.83	CO.38 87.21 386.83	387.10	CO.58 87.91 387.33	C-6.40 393.73 387.33
15'			CO.89 88.74 387.90		CO.14 88.54 388.40	
2+36.66	P.O.C. def $\angle$ = 37° 02' 11"		C-2.05 391.02 388.97	CO.40 9.37 388.97	FO.21 89.26 389.47	C-6.69 396.16 389.47
15'						
2+06.66	P.O.C. def $\angle$ = 31° 39' 54"		CO.36 0.08 389.72		Grade 90.22 390.22	
15'						

PAVING GRADES 56-TH. ST.

P.O.C. 20°31'49"

11.90

$d = 51.754 \times 2 = 103.514$   $L = 77.03$   
 $cb, R = 33.21'$   $P.L., R = 25'$   $sw, R = 56'$   $th \& havel$   
 $5 + 87.90 = Cb, B.C., Lt. X = 132°53'20''$   
 $(5 + 86.59 = P.L., B.C.)$

20'

5766.59

34.93

5731.66

40'

4791.66

40'

4751.66

40'

Corb Lt. Rt. (38)  
 Rough Corb 8-27-54 Corb Rough

F 1.36  
 367.24  
 368.60 368.60

F 1.89 368.96 C 0.32 C-9.53  
 367.11 80 69.82 379.03  
 369.00 369.00 368.40 369.50 369.50

F 1.23 Grade C 0.27 C-9.81  
 367.93 916 69.93 379.47  
 369.16 369.16 369.13 369.66 369.66

F 0.31 C 0.54 F 0.15 C-8.80  
 369.12 997 69.78 378.72  
 369.43 369.43 369.70 369.93 369.93

F 0.39 C 0.08 C 0.35 C-6.62  
 369.68 7015 70.92 377.19  
 370.07 370.07 370.39 370.57 370.57

F 1.55 C 0.24 F 0.09 C-1.34  
 369.85 7164 71.86 373.24  
 371.40 371.40 371.67 371.90 371.90

PAVING GRADES 56-TH. ST.

Curb  
Rough

Curb

Curb

Curb  
Rough

56-TH Laurel  
6+32.159 P.O.T.  
23'33"

$\angle = 132^{\circ} 53' 20''$

360.36

370.38

F 0.24  
70.66  
370.90

C-9.03  
379.93  
370.90

6+09.59 P.O.T.  
23'32"

369.25

C 0.19  
70.09  
369.90

C-8.83  
378.73  
369.90

56-TH Laurel  
E.C. SW. Cb. Ref.  $\angle = 132^{\circ} 53' 20''$

360.36

360.36

19.35' P.O.C. SW Ref  $\angle = 109^{\circ} 42' 24''$

P.O.C. SW Ref  $\angle = 99^{\circ} 30' 41''$

C 0.46  
363.68  
363.22

363.22

19.34'

P.O.C. SW Ref.  $\angle = 66^{\circ} 08' 43''$

F 0.07  
366.06  
366.08

366.08

13.22

P.O.C. SW. Cb. Ref.  $43^{\circ} 20'$

F 0.44  
367.10  
367.54

367.54

13.22'

Curb

Lt. Rt.

Curb  
Rough

(40)

PAVING GRADES 56-TH. ST.

B.M. - 2" x 2" RW Hub - 33.21 Curb Radius point SWly cor Laurel 456<sup>72</sup> - El = 363.86

56-th of Laurel  
E.C. SE. Ch Ret.  $\angle = 47^{\circ}06'40''$

C. 4.36  
384.90  
380.54 380.54

8.78'

P.O.C. SE. Ret.  $\angle = 23^{\circ}33'50''$

379.20 379.20

8.77

Ch R = 21.35  $\angle = 47^{\circ}06'40''$  L = 17.55'  
6 + 90.95 = SE. Ch Ret. 56-th of Laurel

F 0.28 C. 6.18  
77.57 384.03  
377.85 377.85

11.47'

6 + 79.48 = P.B.C.

F 0.69  
75.41  
376.10 376.10

6 + 55.59

FD <sup>43</sup>  
72.57 C. 7.87  
373.00 380.87  
373.00 373.00

372.40

✓ INDEXED SHEET 10

PAVING GRADES ALLEY BIKD  
BALBOA VISTA

PORTION OUT OF 040 SEC FB 2165. Page 5

0+00 = E Alley-D & Nly Line Laurel Str

380.93  
E.P.

380.70

0-09 = End W. Curb & Nly P.L. Laurel

379.30    379.30  
Cb  
10'

0-13.65 = E Gutter Line Alley-D & Laurel

379.25

$\Delta = 47^{\circ}06'40''$   
E.C. N.W. Cb Ret Alley D & Laurel

280.65  
Cb

cb R = 2'  $\Delta = 47^{\circ}06'40''$

0-22.07 = B.C. N.W. Cb Ret Alley-D & Laurel

280.71    280.71  
Cb

B.M.

Lt    E    Rt.

9-14-54

(A)

PAVING GRADES ALLEY-D

Rough				Rough
F0.14	F0.16		C 1.32	C-1.85
386.22	86.50		8826	388.79
386.66	386.66		386.94	386.94

0+60

F0.61	F0.39		C 2.26	C-2.52
384.78	85.00		87.89	388.15
385.39	385.39		385.63	385.63

0+40

F1.04	F0.59		C 2.29	C-3.37
382.27	82.72		85.76	386.84
383.31	383.31	382.99	383.47	383.47

0+20

383.14	382.64
cb.	gut.

E.C.N.E.Cb. Ret. Alley-D  $\angle = 90^\circ$   
& Laurel

Plans  
(See Sheet 19)

382.94	382.64
cb	gut

$\angle = 90^\circ$  cb. R=2  
B.C.N.E.Cb. Ret. Alley-D & Laurel

$\uparrow 10.00' S. =$

$\nearrow @ 0+09.29 - 10' - Rt. 0^\circ 00' N. Defl. Lt. S. 47^\circ 06' 40''$

383.14	382.49
cb	gut.

0+09.29 = End E.Cb & Nly P.L. Laurel

B.M.

382.91 ~ 382.87 NE  $\nearrow$  stub Laurel & Alley "D"

## PAVING GRADES ALLEY - D

Pot at 2 feet tied 50'496' to cly at 90°

2+00

Rough

F0.14	C008
85.44	85.66
385.58	385.58

Rough

C150	C-1.83
87.14	387.67
385.89	385.89

1+80

F0.14	F0.14
86.45	86.48
386.59	386.59

C153	C-1.71
88.40	388.58
386.87	386.87

1+60

F0.29	F0.29
86.66	86.87
387.16	387.16

C115	C-1.05
88.60	388.50
387.45	387.45

TP.

1+40

386.90

F0.45	F0.41
86.86	86.90
387.31	387.31

C144	C-1.54
89.05	89.15
387.61	387.61

30

1+10

F0.24	F0.16
86.98	87.04
387.22	387.22

C158	C-1.88
89.10	387.40
387.52	387.52

30

0+80

F0.67	F0.06
86.46	87.07
387.13	387.13

C149	C-2.13
88.92	387.56
387.43	387.43

PAVING GRADES ALLEY - D

TP  
4+00 361.62

3+50

TP 370.56

3+00

TP 379.10

40  
2+60

2+40

2+20

W4 Lt. Rt. (4)

Rough

C-3.13 C 2.95  
365.70 64.63  
362.57 361.68

C 3.62 C 2.74  
372.42 70.96  
368.80 368.22

C-1.30 C 0.14  
376.32 74.90  
375.02 374.76

F 0.31 C 0.02  
379.63 80.02  
380.00 380.00 ✓

F 0.19 F 0.05  
382.10 2.24  
382.29 382.29

F 0.04 C 0.12  
384.10 84.26  
384.14 384.14

NOTE: GRADES REVISED TO CORRECT DISCREPANCY AT E. & W. ALLEY & ALLEY BLK D T.A.S. 9-14-54 GRADES ON SHEETS 19 & 21 DIFFER BY 1.26' (See Plans)

C 0.35 F 1.98  
61.87 360.43  
361.52 362.41

C 1.37 C 0.69  
69.54 369.14  
368.17 368.75

C 1.12 C 0.54  
76.00 375.63  
374.83 375.09

C 0.18 F 0.51  
80.34 379.63  
380.16 380.16 ✓

C 1.06 C-1.02  
83.55 383.51  
382.49 382.49

C 1.62 C-1.77  
86.00 386.15  
384.38 384.38

Rough



INDEXED

9-14-54

PAVING GRADES E. & W. ALLEY FROM  
ELY LINE BALBOA VISTA DRIVE ALONG  
ELY PROLONGATION OF NLY LINE SEIFFERT

	Rough			Rough
ST. (SEE Sheet 4-1071B-L) W.O. 31973	C 2 16 355.86 353.70	C 1 13 54.83 353.70		C 1 63 35.63 354.00
1+03 = Wly Line Alley - D				
TP.	358.60			
28				
0+75	F 0 10 359.31 359.41	C 0 15 59.56 359.41		C 2 05 61.76 359.71
T.B.M. 50' RP. SELY & Alley "D"	353.43			
0+50				
TP.	367.68			
0+25				
0+00 = E Alley & Ely Line Balboa Vista Drive				
B.M.	373.01			

20-38 90

F 4 28  
370.52  
375.20  
Gutter Tapcb CB

F 0 52  
375.02  
375.54  
CB Tapcb Gutter

(see Pg 23)

1. GRADES E. + W. ALLEY

B.M. - ON 30' R.P. Hub to NECOR

Balboa Vista sub- DUE EAST

of Pipe ON 2+78 - EL = 329.23

Rough

Rough

	F 3.00			C 2.45
2+78 = Ely Line 56-th St. = End Grading	328.54			334.29
	331.54	331.54	331.84	331.84

30'	C-2.10			C-6.07
2+48 = W/4 Line 56-th St.	333.64			337.91
	331.54	331.54	331.84	331.84

48'	C-2.23			C-3.04
2+00	342.16			343.27
	339.93	339.93	340.23	340.23

50'	C-3.31			C-0.48
1+50 Rough Grading Only	351.99			349.42
	348.68	348.68	348.98	348.98

27'	C-2.59			C-0.01
1+23 = End Point @ Ely Line Alley - D	355.99			353.71
+ 5' off ENT ST. (SE 1/4 of 2) - EL = 353.45	352.40	353.40	353.70	353.70

TBM - ON 50' tie OUT Hub & Alley Block D

20

1+23 = W/4 Line Alley - D

Rough

351.00

Lt

Et

Rt

(47)

INDEXED

7-16-54

Stampes (48)  
Sisson  
Nordahl Curb

PAVING GRADES 54-TH. ST FROM  
LAUREL TO BILOXI (sidewalk & Curbs  
& Grading)

1+57.72

275.14

<sup>0.53</sup> FO<sup>03</sup>? C 3.92  
74.35 7830  
274.88 27438

40'

1+17.72

274.08

FO<sup>07</sup> C 3.72  
73.75 7754  
273.82 27382

37.72

0+80

272.98

FO<sup>12</sup> C 3.35  
7260 7607  
272.72 27272

0+40

271.81

FO<sup>12</sup> C 1.65  
7143 7320  
271.55 27155

0+00 = P.L.E.C. N.E. Ref. Laurel & 54-th.  
= 82.88' Nly of L. & Disk @ 54-th & Laurel

270.64

C 1.88  
272.26  
270.38 27038

B.M.

269.09

Top S.E.F.H. 54-th & Laurel

PAVING GRADES 54-TH. ST.

CK. 5' R.P. slab. B.C. SE. Ret. 54<sup>th</sup> Biloxi 28263 ~ 282.64 See G-320

4+23.41 = B.C. SE. Ch Ret + P.L. B.C.

54-<sup>th</sup> Biloxi

4+00

3+50

3+00

22.28

2+77.72

2+37.72

1+97.72

40'

TP

275.08

Lt

±

RT

(49)

7-16-54

Curb

LO<sup>08</sup>

77.70

277.62

277.62

NOTE: Stakes Set. 3' Be

Curb Unless Noted  
Otherwise

C 0.21

77.68

277.47

C 4.75

82.22

277.47

FO<sup>12</sup>

77.03

277.15

C 4.73

81.88

277.15

FO<sup>11</sup>

76.71

276.82

C 2.74

79.56

276.82

FO<sup>07</sup>

76.61

276.94

276.68

C 3.70

80.38

276.68

FO<sup>09</sup>

76.22

276.57

276.31

C 3.00

79.31

276.31

FO<sup>08</sup>

75.63

275.97

275.71

C 2.86

78.57

275.71

Stamper Lt.  
Cota  
Nordahl  
Moralez

7-15-54

50  
Curb

PAVING GRADE 54-TH ST FROM

BILOXI TO OLIVE - BALBOA VISTA

+ 50

CO <sup>04</sup>	CO.80
79.98	80.74
279.94	279.94

2+00

CO <sup>06</sup>	CO.56
79.68	80.18
279.62	279.62

+ 50

CO <sup>07</sup>	CO.56
79.37	79.86
279.30	279.30

1+00

CO <sup>04</sup>	CO.76
79.02	79.74
278.98	278.98

0+50

FO.07	CO.72
78.58	79.37
278.65	278.65

T.P.

278.36

0+00 = E.C.N.E.R.I. Ret 54-th & Biloxi St.

278.33	278.33
--------	--------

0-04<sup>78</sup> = Ch. B.C.

B.M.

282.84

0+63.69 PREC. Biloxi (See G 320 P. 61)

7-15-54

Corb

GRADES 54-TH ST.

+ 30

CO<sup>06</sup> C1.25  
81.81 83.00  
281.75 281.75

30'

CO<sup>10</sup> C1.70  
81.66 83.26  
281.56 281.56

5+00

CO<sup>11</sup> C2.34  
81.35 83.58  
281.24 281.24

+ 50

CO<sup>06</sup> C1.24  
280.97 82.15  
280.91 280.91

4+00

T.P.

280.97

+ 50

CO<sup>03</sup> C1.37  
80.62 81.96  
C 0.92 280.59 280.59

3+21.83 = Sewer M.H. changed to grade

81.12  
280.20  
T.P.M.H.

T.P. on 5' R.P. stub  
3+00

280.90

C 0.21 C 0.63  
80.48 80.90  
280.27 280.27

Curb

GRADES 54-TH. ST.

+63.32

CO<sup>01</sup> 27.88  
80.10 82.97  
280.09 280.09

+23.32

CO<sup>15</sup> 2.42  
81.12 82.39  
280.97 280.97

+83.32

CO<sup>10</sup> 1.32  
81.70 82.92  
281.60 281.60

+43.32

FO<sup>10</sup> 0.93  
81.88 82.91  
281.98 281.98

6+03.32

CO<sup>25</sup> 0.81  
36 82.15 82.91  
61.45 282.10 282.10  
8301  
281.86 65

5+84.88 = Sewer M.H. Set to fin. Grade  
40'

FO<sup>02</sup> 1.15  
81.95 83.12  
281.97 281.97

T.P. on 5' R.P. stub  
5+63.32

283.12

33.32

GRADES 54-TH. ST.

B.M.

288.86 Nail in Pole No 58456-H.-9' Rt & Alley "A"  
Sta 8+78 (see G-320 Pg 72)

NOTE:

(See Curb Ref S.E. Olive & 54-th Pg 54)

9+03; 89-B.C. Curb & PL. S.E. 54-th & Olive

C.O. 28	C-393
7597	79.62
275.69	275.69

20.57

C.O. 94	C-376
7730	80.72
276.36	276.36

+83.32

40

C.O. 34	C-368
78.00	81.34
277.66	277.66

+43.32

40

FD <sup>05</sup>	C-334
78.91	82.30
278.96	278.96

8+03.32

T.P.

278.00



Lt. E. Pt.

(54)

7-15-54

CURB

S.E. CURB RETURN 54-TH. &amp; OLIVE

T.B.M.		280.13	280.10 (See Pg. 27)	C 1.97
E.C.	45° 08' 45"			79.64 277.67
				C 2.65
4/5	36° 07'			79.50 276.85
				C 2.79
3/5	27° 05' 15"			78.94 276.15
				C 3.19
2/5	18° 03' 30"			78.89 275.70
				C 0.58
1/5	9° 01' 45"			75.89 275.51
C = 9.10' = 3.85' cb				
C = 10.07'				
N @ B.C.				C 0.28
Ch. R = 32' X = 90° 17' 30" L = 50.43				75.97
B.C. S.E. CB & P.L. Ret. 54-TH & OLIVE				275.69

INDEXED

7 1951  
 PAVING GRADES ALLEY BLK "C" BALBOA  
 VISTA W.O. 31973

E.C.N.E. Cb Ret. 323.48 322.98  
 cb g

B.C.N.E. Cb Ret. cbr = 2'  $\angle$  =  $90^{\circ}22'10''$   
 Thence S.E. 8' = 323.27 322.87  
 $\angle$  def. Lt. N. to S.E.  $16^{\circ}03'30''$   
 $\angle$  @ 0+02.54 N. line Laurel & Fly #. Alley

0-10.36 321.43  
 g

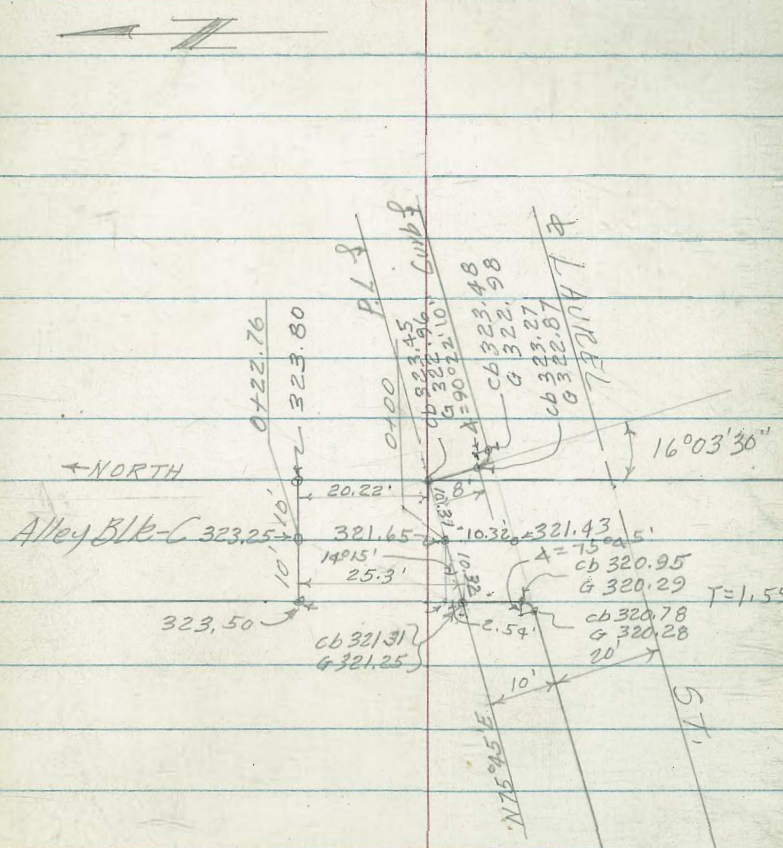
E.C.N.W. Cb Ret. 320.78 320.28  
 cb g

cbr = 2'  $\angle$  =  $75^{\circ}45'$   
 0-12.86 = B.C.N.W. Cb Ret. 320.95 320.29  
 cb g

0+00 = N/4  $\angle$  Laurel St & Alley C

T.B.M. 321.51

B.M. 317.65



Top Stub. 2' Wly N.W.  $\angle$  Alley "C" & Laurel St.  
 Chis! Cross 10' Wly Gar Entrance @ Nly Side  
 @ House No 5505 Laurel St. G-320-17

GRADES ALLEY C - BALBOA VISTA

1+62.76

35'

1+27.76

1400 TP  
35'

0+92.76

35'

0+57.76

35  
0+30

0+22.76

22.76

0+02.54 Rt = End cb. Rt.

0+00 = Alley @ N/4 P. Lt (see Sketch p. 55)

0-02.54 Lt = End cb Lt.

Rough

F1.11 FO 28

332.54 333.7  
333.65 333.65

CO<sup>04</sup>

331.11 31.15  
331.11 331.11

F1.07  
328.02  
329.70

FO<sup>36</sup>

328.57 28.21  
328.57 328.57

FO<sup>45</sup>

326.04 25.59  
326.04 326.04

F0.78  
324.67  
325.97

FO<sup>06</sup>

322.87 23.44  
323.50 323.50

G

321.31  
cb

321.31  
cb

321.67

323.45

323.45

cb

cb

Lt. E Rt.

9-13-54

(56)

Rough

C2.77

36.72 34.00  
333.95 333.95

C1.71

33.12  
331.41 331.41

C1.49  
330.87 TP  
329.40

C1.19

20.06  
328.87 328.87

CO<sup>93</sup>

27.27  
326.34 326.34

C-1.45  
327.22  
325.77

C1.02

24.82  
323.80 323.80

C-1.26  
325.06

Lt. E Rt.

9-13-59

PAVING GRADES ALLEY C

Rough

Rough

F0.84	Grade	C031	C-6.05
343.30	4414	4475	350.49
344.14	344.14	344.44	344.44

4+00

F2.70	F0 51	C160	C-2.43
339.71	4190	4431	345.14
342.41	342.41	342.71	342.71

3+50

F2.66	F0 76	C231	C-3.27
338.02	3992	4329	344.25
340.68	340.68	340.98	340.98

3+00

F2.52	F0.88	C279	C-3.52
337.52	3920	4317	343.90
340.08	340.08	340.38	340.38

17.28'

2+82.72 (74)

@ 90° to E  
2+50 Tied 50' E 100' Ely of E Alley. E 50' N 50' E

40'

F2.04	F0 98	C344	C-4.65
336.40	3746	4218	343.39
338.44	338.44	338.74	338.74

2+42.76

40

F0.86	C002	C433	C-6.14
335.44	3632	4093	342.74
336.30	336.30	336.60	336.60

2+02.76

40'

9-13-54

PAVING GRADES ALLEY-C

Rough

Rough

6+42.76  
 PPN# 473406  
 TBM. W/4 Side Alley C.  
 Approx Sta 6+00+

F1.32	FO 41	C 2.13	C-2.50
360.48	6139	6423	364.60
361.80	361.80	362.10	362.10

F 1.79	CO.32	C 2.34	C-3.17
356.58	5809	6041	361.24
357.77	357.77	358.07	358.07

6+02.76  
 TP.  
 349.09

F 2.23	FO 52	C 1.43	C-2.18
351.51	5322	55.47	356.22
353.74	353.74	354.04	354.04

5+22.76  
 F 3.77 F 1.24 F 0.27 C-0.18  
 346.39 4892 5019 350.44  
 350.16 350.16 350.46 350.46

4+82.76  
 F 2.29 F 1.19 C 2.91 C-4.78  
 345.16 4626 50.66 352.53  
 347.45 347.45 347.75 347.75

4+42.76  
 F 0.76 CO 22 C 3.18 C-6.23  
 344.86 4584 49.10 352.15  
 345.62 345.62 345.92 345.92

PAVING GRADES ALLEY-C

Lt.                      E                      Rt.

(59)

9-13-54

T.B.M.

363.87<sup>2</sup> - 363.83 SW # Alley "C" & Seifert 2<sup>nd</sup> St. 1/4

Rough

Rough

<sup>21 M</sup>  
6 + 83.41 = 5/4 Line Seifert St.

	Co. 09		Co. 71
	364.44		367.40
	364.35	364.35	366.69
			366.69

6 + 62.76

	F 1.28		C 1.24
	6275		6555
	364.03	364.03	364.31
			364.31

Final grades for paving Blackton Drive  
 Faulconer to Laurel  
 for Rough Grades See FA 6320 - Page 36 et al

BM = chisel x. sly curb  
 Faulconer at Blackton 313.40

6" C.I. (60)  
 Waterline  
 Elev. based on  
 2 1/4 grades

Station	Top wly Curb	Wly gutter	Wly 1/4	grade	ely 1/4	ely gutter	Top ely curb	
2+00	293.68	293.18		293.89	293.89	293.68	294.18	F0.62 293.27 293.89
1+80	295.14	294.64		295.35	295.35	295.14	295.64	F0.62 294.73 295.35
1+60	296.74	296.24		296.95	296.95	296.74	297.24	F0.61 296.34 296.95
1+40	298.49	297.99		298.70	298.70	298.49	298.99	F0.65 298.05 298.70
1+20	300.37	299.87		300.58	300.56	300.37	300.87	F0.68 299.28 300.56
1+00	302.40	301.90		302.61	302.61	302.40	302.90	F0.65 301.96 302.61
0+60	306.47	305.97	306.43	306.68	306.68	306.47	306.97	F0.53 306.15 306.68
0+40	308.50	308.00		308.71	308.71	308.50	309.00	F0.71 308.00 308.71
0+20	310.50	310.00		310.61	310.56	310.30	310.80	F0.49 310.09 310.56
0+15	310.93	310.43		310.98	310.97	310.74	311.24	F0.60 310.37 310.97
0+05	Make Correction #7 on 6" CI Water Line			BM = 'x' sly curb Faulconer + Blackton - 313.40				

180 NELY 26  
 Ret - Faulconer  
 + Laurel -

Final Station	Grades Top wly cb	Blackton Dr cont wly gutter wly 1/4	2 grade	ely 1/4	ely gutter	Top ely curb	Remarks	6" CI wafer line in ely 1/4 Blackton Dr
4+496 <sup>3</sup>	281.31	280.81	281.76	282.01	282.10	282.60		F 0.62 281.39 282.01
4+20	282.55	282.05	282.93	283.05	282.95	283.45		F 0.75 282.30 283.05
4+00	283.44	282.94	283.71	283.74	283.55	284.05		F 0.64 283.10 283.74
3+80	284.40	283.90	284.65	284.67	284.48	284.98		F 0.71 283.96 284.67
3+60	285.36	284.86	285.57	285.57	285.36	285.86		F 0.79 284.78 285.57
3+20	287.28	286.78	287.49	287.49	287.28	287.28		F 0.68 286.81 287.49
2+80	289.20	288.70	289.41	289.41	289.20	289.70		F 0.67 288.74 289.41
2+60	290.16	289.66	290.37	290.37	290.16	290.66		F 0.61 289.76 290.37
2+40	291.19	290.69	291.40	291.40	291.19	291.69		F 0.50 290.90 291.40
2+20	292.37	291.87	292.58	292.58	292.37	292.87		F 0.56 292.02 292.58



Elevations on Water Laterals  
Blackton Dr. Laurel to Olive

Cont Page 64

	Lateral on LEFT-WLY	Lateral on RT. ELY	Station	Lateral on LT. (WLY)	Lateral on RT (ELY)
2+44 <sup>14</sup>	290.06	290.06	6+14 <sup>01</sup> LT		
2+08 <sup>15</sup>		290.26	5+69 <sup>01</sup> (RT)		
2+04 <sup>15</sup>	289.71	289.71	5+65 <sup>59</sup> LT		
1+68 <sup>15</sup>		289.66	5+19 <sup>01</sup> (RT)		
1+54 <sup>14</sup>	288.89	288.89	4+69 <sup>01</sup> (RT) Line only- 4+39 <sup>01</sup>		
1+18 <sup>15</sup>		288.58	4+19 <sup>01</sup> (RT)		
1+04 <sup>14</sup>	287.69	287.69	3+58 <sup>15</sup>		291.22
0+54 <sup>14</sup>	286.34		3+08 <sup>15</sup>		290.93
0+48.15		286.68	2+94 <sup>14</sup>	290.27	
0+04.14	284.88	284.88	2+58 <sup>15</sup>		290.64

See page 64

See page 64 total

Elevations on water laterals -  
in Blackton or - Laurel to Olive

	Top of Curb elev LT = Wly	Top of Curb elev RT = cly	Station	LT = Wly F 0.94 2.93.66 294.60 514	RT = cly
2+08.15		<del>F 0.81</del> F 0.94 289.45 89.32 290.26 - 290.26	5+65.5 (RT) 295.22 } 062 294.60 } N14		
2+04.15	<del>F 0.19</del> F 0.19 289.52 289.54 289.71 - 289.71		5+190 (LRT)		F 0.52 93.48 294.00
1+68.15		<del>F 0.17</del> F 0.34 289.49 89.32 289.66 - 289.66	4+69.01 (LRT)		F 0.80 91.70 292.50
1+54.14 (GP)	<del>F 0.58</del> / F 0.61 288.31 } 828 288.89 } 288.89		Line to Wly - 4+39.01		
1+18.15		<del>F 0.02</del> F 0.86 289.56 87.72 288.58 - 288.58	4+19.01 (RT)		F 0.37 291.25 291.62
1+04.14	<del>F 0.08</del> (F 0.58) 287.61 } 87.11 287.69 } 287.69		3+58.15		<del>F 0.20</del> } F 0.10 291.02 } 91.12 291.22 } 291.22
0+54.14	<del>C 0.01</del> / grade 286.35 } 86.34 286.34 } 286.34		3+08.15		<del>F 0.44</del> } F 0.27 290.49 } 90.66 290.93 } 290.93
0+48.15		<del>C 0.20</del> F 0.08 286.88 86.60 286.68 - 286.68	2+94.14	<del>F 0.06</del> F 0.24 290.21 90.63 290.27 - 290.27	
0+04.14	C 0.15 285.03 <del>284.88</del> 284.88 grade		2+58.15		<del>F 0.54</del> F 0.67 290.70 89.97 290.64 290.64
PC NELY cb rec Laurel & Blackton D+00			2+44.14	<del>F 0.63</del> (F 0.32) 289.13 89.74 290.06 - 290.06	

18+14.01 (LT)

6" WATER BLACKTON ST.

7+69.01 (RT)

7+64.01 (LT)

~~7+19.01 (LT)~~

7+14.01 (LT)

6+69.01 (RT)

6+64.01 (LT) ✓

**F.H. RT**  
**6+39.01**

6+19.01 (RT)

6+14.01 (RT)

5+69.01 (RT)

LT=WHY

Grades are top of curb

302.45 = stake  
302.97

F0.52

F0.89

301.37

302.26

F0.81

300.82

301.63

**T.A.S. 7-8-54**  
**Omitted**

F0.52

99.68

300.20

~~F0.93~~

~~300.00~~

~~300.93~~

F1.04

298.34

299.38

F0.44

298.29

298.73

F0.82

97.56

298.38

NY stake

F1.14

97.24

298.38

stake

F0.96

96.72

297.68

F1.04

85.86

296.90 - 286.90

stake

F0.59

95.22

295.81

RT=ELY

10+59.01 RT

10+59.01 LT

10+19.01 (RT)

10+09.01 (LT)

9+69.01 (RT)

9+64.01 (LT)

9+19.01 (RT)

9+14.01 (RT)

8+69.01 (RT)

8+64.01 (LT)

8+19.01 (RT)

LT=WHY

RT=ELY <sup>65</sup>

F0.67 ✓

306.37

307.04

F0.89 ✓

306.27

307.16

F0.49 ✓

306.25

306.74

F0.44 ✓

305.20

305.64

F0.58 ✓

303.73

304.31

F0.72 ✓

306.87

307.59

F0.98 ✓

306.73

307.71

F0.99 ✓

306.31

307.30

F0.88 ✓

305.43

306.31

F0.86 ✓

304.09

304.95

F0.72 ✓

302.90

303.62

Finish grades over 6" C.I. water <sup>66</sup>  
 Main in Blackton - Laurel to Olive  
 see also page 60 etc.

6" WATER MAIN BLACKTON DRIVE

Grades Are Top of Curb on Laterals

Lt. Wly

Rt. Fly

4+00

F0.62  
 90.10  
 290.72

3+50

F0.49  
 9.95  
 290.44

Olive ST

3+17

F0.68  
 9.57  
 290.25

13+09.0 (LT)

F0.73  
 98.83  
 299.56

2+77

F0.64  
 9.24  
 289.88

13+04.01 (RT)

F0.88  
 300.50  
 301.38

2+37

F0.73  
 88.50  
 289.23

12+59.0 (RT)

F1.04  
 300.40  
 301.44

1+97

F0.53  
 87.76  
 288.29

12+59.0 (LT)

1+50

F0.43  
 86.58  
 287.01

12+09.01 RT

F0.59  
 302.60  
 303.19

0+98.78

F0.58  
 85.05  
 285.63

11+59.0 RT

F0.88  
 304.04  
 304.92

0+79.63

{ Ob No NELCOR  
 Laurel & Blackton

F0.66  
 84.38  
 285.04

11+59.0 LT

0+39.81

C0.01  
 83.54  
 283.53

11+09.0 (LT)

F0.59  
 305.70  
 306.29

0+00 = & Laurel & Blackton

C0.22  
 282.25  
 282.03

6" WATER MAIN LAUREL TO OLIVE

			11+97	F 0.85 05.51 306.36
7+37	98.05 298.81	F 0.76		F 0.81 06.30 307.11
EC LT 7+22.42	F 0.65 97.64 298.29		11+57	F 0.79 306.64 307.43
6+97	F 0.60 96.80 297.40		11+17	F 0.94 306.43 307.37
6+50	F 0.60 95.09 295.69		10+77	F 0.75 306.15 306.90
6+25	F 0.62 94.16 294.78		10+37	F 0.61 305.42 306.03
5+77	F 0.64 92.39 293.03		9+97	F 0.50 304.27 304.77
5+37	F 0.66 291.32 291.98		9+50	F 0.52 302.91 303.43
4+97	F 0.51 90.83 291.34		9+00	F 0.64 07.45 302.09
BC SW Ret. B/10X1 + Blackton 4+69.82			8+50	F 0.79 300.42 301.21
4+40	F 0.69 90.26 290.95 wly stake	F 0.55 90.40 290.95 EL-y stake	8+17	F 0.96 99.11 300.07
			7+77	

6" WATER MAIN LAUREL TO OLIVE  
ALONG BLACKTON BR.

intersection of water  
olive & Blackton.

C-1.32  
300.82  
299.50

13+78 ✓

F027 ✓  
300.37 = stake  
300.64

13+63 ✓

F038 ✓  
300.66 = stake  
301.04

13+43

F052 ✓  
01.14  
301.66

12+90

F049 ✓  
02.95  
303.44

12+37

F076 ✓  
04.46  
305.22

24

INTERSECTION DETAILS LAUREL & BLACKTON

Lt.

Rt.

Sta.	Lt.		Lt.		Rt.	
	curb	gut.	1/4	1/4	gut	curb
2+98.82 0°41'30"		281.96 <sup>✓</sup>	282.21	282.21 <sup>✓</sup>	281.96	281.46 <sup>✓</sup>
6.52 2+92.30 - B.C. d = 6.3662		81.29		81.59		80.79
2+78.82		280.89	281.15	281.14 <sup>✓</sup>	280.85	280.29 <sup>✓</sup>
				80.47		79.62
2+58.82	280.23	279.73	280.03	280.07 <sup>✓</sup>	279.83	279.32 <sup>✓</sup>
				79.40		78.65
2+37.14		278.55	278.80	278.88 <sup>✓</sup>	278.64	278.13
				8.21		
20 B.C. S.W. cb Ref. Laurel						
2+17.14	277.97	277.47	277.76	277.81 <sup>✓</sup>	277.63	277.24
				77.14		

Curb

Gut

1/4

£

1/4

Gut

Curb

# Blackton  
E.C.N.E. cb Ref. Laore

3+83.38

9°39'50"

285.50

286.37

286.75

286.62

286.00

86.08

23.07

3+60.31

7°13'

285.24

285.49

284.74

84.82

20'

3+40.31

5°05'38"

284.15

284.40

283.65

284.15

83.48

83.73

21.49

3+18.82 defd = 2°48'50"

283.03

283.28

283.28

283.03

282.53

82.36

82.61

81.86

20



INDEXED

7 1051

(See Sheet 17)

9-03-54

Stamper  
Sisson  
Huffman  
Sherry

(21)

PAVING GRADES OLIVE ST. FROM

54-TH ST To 55-TH ST, W.O. 31973  
B.C. S.W. Cb. Ref. Alley A  $\angle = 90^{\circ}06'30''$   
1+28<sup>43</sup> #Olive R=2'

Curb

FO 13  
85.50  
285.63  
N14

1+00

C 0.61  
284.05  
283.44  
CHISL CROSS

T.P.

284.05

Chisl Cross Sta 1+00.3 BK  
Cb.

C 0.98  
82.49  
281.51

0+75

0+50

C 0.84  
80.42  
279.58

24<sup>72</sup>

54-TH Olive  
E.C. S.E. Cb. Ref.  
0+25<sup>28</sup>

77.67  
277.67

54th St.  
0+00 = Flyline

B.M.

9-03-54

(72)

Carb

GRADES OLIVE ST.

C0.34

89.56  
289.22

1+75

F0.14

87.29  
287.43

B.C. +5 = R.

C0.08

87.41  
287.33  
N14

S.E. Cb. Ret. Alley "A"  
B.C. 4 Olive  
W14

F0.02

87.41  
287.43  
N14

Olive & Alley "A"  
E.C. S.E. Cb. Ret.  
1+51.23  
N14

C0.27

86.16  
285.89

E.C. +5  
R.

F0.29

5.50  
285.79  
E14

S.W. Cb. Ret.  
E.C. Olive & Alley A.

9-03-34

Et  
Curb

(73)

## GRADES OLIVE ST.

				CD <sup>02</sup>
4+00				07.80
T.B.M.			out. TOP S.E. P.E.C. 305.30 3/4" I. Pipe	307.78
				FO.14
				+72
3+80				05.89
T.B.M.		295.66	P.K. P.P.N. = 170662 G-325 9	<del>301.17</del> 306.03
				FO <sup>06</sup>
E.C. S.E. Ch. Ref. Olive $\angle = 89^{\circ}53'30''$				04.22
3+60 <sup>25</sup> Blacktop Ch. R = 32' L = 50 <sup>24</sup>				304.28
				FO 47
B.C. S.W. Ch. Ref. Olive $\angle = 90^{\circ}06'30''$ Ch. Ref				5.34
2+60 <sup>25</sup> Blacktop R = 32' (See G-320 for)				295.81
T.P.		300.96		
				FO.57
2+30				92.92
T.P.		291.99		293.49
				FO.38
2+00				90.77
				291.15

CORR

GRADES OLIVE ST.

Wly. Alley B<sup>3</sup>  
P. + 20 = End cb.

C0.29  
1691  
316.62

E.C. + 5 = R.

C0.58  
1493  
314.35  
R

Alley B<sup>3</sup> & Olive  
E.C. S.W. cb. Ret.

F0.55  
1370  
314.25  
Ely

B.C. S.W. cb. Ret. Alley B 4 = 90° 06' 30"  
4 + 68<sup>90</sup> & Olive cb. R = 2'

F0.29  
1370  
313.99  
Nly

4 + 50

F0.34  
1180  
312.14

4 + 25

TR

309.67

F0.14  
0967  
309.81

9-03-54

(75)

Curb.

## GRADES OLIVE ST.

5+50

FO.28  
4.35  
324.63

5+25

T.B.M.

Gull Lake  
Set. P.K. T.B.M.  
SE Cor. Alley B  
& Olive.

318.74

FO.34  
20.90  
321.24

5+00

CO.25  
18.02  
317.77

End. Ch.

E.C.+5 = P.

CO.63  
17.19  
316.56  
R.

Alley B &amp; Olive

B.C. S.E. Ch. Ret.

FO.19  
16.27  
316.46  
wly.E.C. S.E. Ch. Ret. Alley B  $\angle = 89^{\circ}53'30''$  $\angle + 92^{\circ}40'$  & Olive Ch. R = e'FO.43  
16.27  
316.70  
N19

9-03-54

(76)

GRADES OLIVE ST.

Corb.

B.M.

334.00 Top S.W. 25' R. R. Hub. 55th. & Olive

S.C. S.W. Ch. Ref. Olive  $\angle = 90^{\circ}06'30''$   
6+00<sup>30</sup> - 455th. St. Ch. R = 321 L = 50.33'

FO 46  
30.24  
330.70

T.P.

327.47

5775

FO 21  
27.47  
327.68

SUBGRADES BALBOA VISTA &  
SEIFFERT ST.

6+12<sup>10</sup>

374.80

5+97<sup>10</sup>

374.62

5+77<sup>10</sup>

374.37

5+62<sup>10</sup> SW P.B.C.

374.19

B.M.

SUBGRADES LAUREL & BLACKTON

4.                      \$                      P/L

0+40 <sup>90</sup>                      282 63

0+20 <sup>45</sup>                      283 57

NE RET.  
0+00 = F.C.                      284 39

0+52 <sup>69</sup>                      280 13

0+27 <sup>69</sup>                      280 29

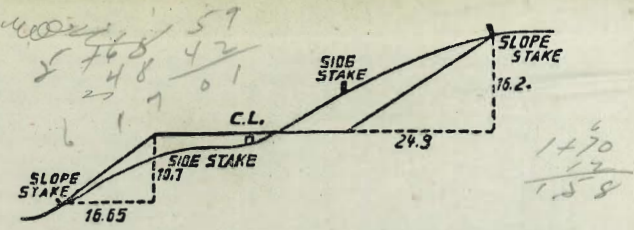
0+00 = B.C.  
S.W. Cb Ref.                      281 15



1790195  
6 + 58 89  
35 36

2.85  
1.90  
0.95

32  
15/1



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	71.20	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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