F.B.384

Published by H. S. Crocker Company, Stationers, Drawing Materials, and Mathematical Instruments, San Francisco.

Table showing the difference of latitude and departure in running 80 chains at any course from 1 to 60 minutes.

MINUTES.	LKS.	MINUTES.	LKS.	MINUTES.	LKS.
1	2⅓	21	49	41	95⅔
2	4⅔	22	51⅓	42	98
3	7	23	53⅔	43	100⅓
4	9⅓	24	56	44	102⅔
5	11⅔	25	58⅓	45	105
6	14	26	60⅔	46	107⅓
7	16⅓	27	63	47	109⅔
8	18⅔	28	65⅓	48	112
9	21	29	67⅔	49	114⅓
10	23⅓	30	70	50	116⅔
11	25⅔	31	72⅓	51	119
12	28	32	74⅔	52	121⅓
13	30⅓	33	77	53	123⅔
14	32⅔	34	79⅓	54	126
15	35	35	81⅔	55	128⅓
16	37⅓	36	84	56	130⅓
17	39⅔	37	86⅓	57	133
18	42	38	88⅔	58	135⅓
19	44⅓	39	91	59	137⅔
20	46⅔	40	93⅓	60	140

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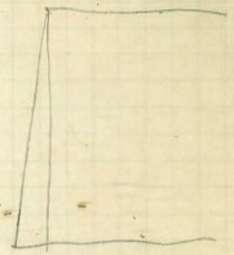
TABLE FOR RUNNING ON SLOPES.

In the following table the first column shows the angle, the second the number of links to be added to a chain on the slopes, to make one chain, horizontal measurement.

ANGLE	COR. IN LINKS	ANGLE	COR. IN LINKS	ANGLE	COR. IN LINKS	ANGLE	COR. IN LINKS
°		°		°		°	
4	0.24	11	1.88	18	5.14	25	10.54
5	0.38	12	2.24	19	5.76	26	11.26
6	0.55	13	2.63	20	6.42	27	12.24
7	0.76	14	3.06	21	7.11	28	13.37
8	0.98	15	3.53	22	7.85	29	14.34
9	1.24	16	4.02	23	8.64	30	15.47
10	1.55	17	4.56	24	9.47	35	22.07

FROM
Loring's Book Store



x-section Olive St. from 30th st for 400' E
" " 60' wide 5' "

4/18/10 Dimitle Sharin Evans

1

B.M. con Mon brass plg N.E. end 3 s/z bridge				280.75
B.M.	11.14	291.89		
E.L. 30th St.				
S			11.3	280.6
crb			11.1	280.8
"q			10.6	281.3
M			10.7	281.2
"q			10.5	281.4
crb			10.3	281.6
N			9.8	282.1
T.P.	7.42	299.08	0.33	291.66
0+06 on N & 0+09 on S - E of 30th				
N			1.6	297.5
crb			2.4	296.7
"q			2.9	296.2
M			1.4	297.7
"q			5.3	293.8
crb			5.2	293.9
S			6.0	293.1

299.08

0+25E of 30th St

S		5.7	293.4
Crb		3.2	295.9
"/4		3.8	295.3
M		2.1	297.0
"/4		0.9	298.2
Crb		2.0	297.1
N		2.1	297.0
	0+50		
N		2.4	296.7
Crb		3.8	295.3
"/4		4.5	294.6
M		5.8	293.3
"/4		6.8	292.3
Crb		7.1	292.0
S		7.3	291.8

299.08

0+75

S		6.6	292.5
Crb		6.0	293.1
"/4		6.3	292.8
M		5.6	293.5
"/4		4.6	294.5
Crb		4.1	295.0
N		2.8	296.3
	1+0		
N		3.0	296.1
Crb		5.0	294.1
"/4		5.6	293.5
M		5.3	293.8
"/4		6.4	292.9
Crb		6.6	292.5
S		7.1	292.0

2

	299.08		
	1+25		
S		7.3	291.8
Crk		6.8	292.3
"/4		6.5	292.6
M		5.6	293.5
"/4		5.4	293.7
Crk		4.5	294.6
N		3.2	295.9
	1+50		
N		3.2	295.9
Crk		4.2	294.9
"/4		5.0	294.1
M		5.7	293.4
"/4		6.7	292.4
Crk		7.9	291.2
S		7.9	291.2

	299.08		
	1+75		
S		8.3	290.8
Crk		7.4	291.7
"/4		6.9	292.2
M		5.8	293.3
"/4		4.9	294.2
Crk		4.9	294.7
N		3.3	295.8
	2+0		
N		3.8	295.3
+4		4.1	295.0
45		4.5	294.6
Crk		48	294.3
"/4		5.5	293.6
M		6.0	293.1
"/4		7.5	291.6
Crk		7.9	291.2
S		8.7	290.4

	299.05		
	2+75		
S		12.8	286.3
crk		11.3	287.8
"/4		9.5-	289.6
M		6.7	292.4
"/4		5.7	293.4
crk		5.6	293.5
+4		5.2	293.9
+5		4.5	294.6
N		4.2	294.9
	2+50		
N		4.3	294.8
+5		4.8	294.3
+6		5.3	293.8
crk		5.7	293.4
"/4		6.0	293.1
M		7.1	292.0
"/4		8.2	290.9
crk		10.4	288.7
S		14.6	284.5

	299.05		
	2+75		
S		9.7	289.4
crk		9.3	289.8
"/4		8.5-	290.6
M		7.2	291.9
"/4		6.1	293.0
crk		5.9	293.2
+4		5.5-	293.6
+5		5.0	
N		4.6	294.5
	3+0		
N		4.9	294.2
+5		5.4	293.7
+6		6.0	293.1
crk		6.2	292.9
"/4		6.5	292.6
M		7.7	291.4
"/4		9.1	290.0
crk		9.5	289.6
S		10.1	289.0

	249.08		
	3+25		
S		11.0	278.1
Crk		10.0	289.1
1/4		9.6	289.5
M		7.8	291.3
1/4		6.5	292.6
Crk		6.3	292.8
+3		6.2	292.9
+4		5.6	293.5
N		5.2	293.9
	2+50		
N		5.7	293.4
Crk		6.9	292.2
1/4		7.2	291.9
M		9.1	290.0
1/4		11.0	288.1
Crk		11.9	287.2
S		12.3	286.8

	249.08		
	3+75		
S		23.5	275.6
Crk		17.8	281.3
1/4		13.7	285.4
M		11.7	287.4
1/4		10.1	289.0
Crk		9.6	289.5
N		6.7	292.4
	At o E of 30th St		
N		9.5	289.6
Crk		12.3	286.8
1/4		13.1	286.0
M		15.9	283.2
+6		17.6	281.5
1/4		25.9	273.2
Crk		30.2	268.9
S		34.8	264.3

Y-section Palm St 30th to 31st St — 4/18/10 Dunkle, Shaw, Evans.
" 60 wide 5 1/4's

B.M. Con. Iron N.E. end Switzer bridge 280.75

B.M.	11.14	291.89			
T.P.	7.42	299.08	0.23	291.66	
T.P.	12.72	310.75	1.05	298.03	

E.L. 30th St.

S	9.6	301.2
crh	9.3	301.5
1/4	8.7	302.1
M	8.6	302.2
1/4	8.6	302.2
crh	8.0	302.8
N	7.6	303.2

0+25 E

N	6.5	304.3
	7.2	303.6
crh	7.0	303.8
+1		
1/4	7.7	303.1
M	7.4	303.4
1/4	8.6	302.2
+4	8.6	302.2
crh	7.9	302.9
S	8.4	302.4

310.75

0+50

S	7.1	303.7
crh	7.2	303.6
+	7.7	303.1
1/4	7.4	303.4
M	6.5	304.3
1/4	6.9	303.9
+4	7.1	303.7
crh	6.3	304.5
N	6.2	304.6

0+75

N	5.1	305.7
crh	5.4	305.4
+1	6.1	304.7
1/4	6.0	304.8
M	5.5	305.3
1/4	6.8	304.0
+4	6.7	304.1
crh	6.3	304.5
S	6.1	304.7

310.75

1+00

S	5.0	305.8
crb	5.3	305.5
+1	5.8	305.0
⅓	5.6	305.2
M	4.6	306.2
⅓	5.0	305.8
+4	5.1	305.7
crb	4.5	306.3
N	4.4	306.4

1+25

N	3.2	307.6
+2	3.7	307.1
crb	3.7	307.1
+1	4.4	306.4
⅓	4.5	306.3
M	4.1	306.7
⅓	4.7	306.1
crb	4.7	306.1
S	4.2	306.6

310.75

1+50

S	4.3	306.5
crb	4.4	306.4
⅓	4.5	306.3
M	3.9	306.9
⅓	4.3	306.5
+3	3.9	306.9
crb	3.8	307.0
N	3.4	307.4

1+75

N	3.8	307.0
+8	3.9	306.9
crb	4.3	306.5
⅓	4.1	306.7
M	3.8	307.0
⅓	4.6	306.2
crb	4.6	306.2
S	4.9	306.4

310.75

2+00

S	4.7	306.1
Crk	4.9	305.9
1/4	4.6	306.2
M	4.1	306.7
1/4	4.4	306.4
Crk	4.6	306.2
N	4.0	306.8

2+25

N	4.4	306.4
Crk	4.5	306.3
1/4	4.6	306.2
M	4.5	306.3
1/4	4.8	306.0
Crk	4.5	306.3
S	4.6	306.2

310.75

2+50

S	5.2	305.6
Crk	5.1	305.7
1/4	5.1	305.7
M	4.7	306.1
1/4	4.4	306.4
Crk	4.5	306.3
N	4.2	306.6

2+75

N	4.0	306.8
Crk	4.7	306.1
1/4	4.5	306.3
M	4.7	306.1
1/4	5.2	305.6
Crk	5.1	305.7
S	5.3	305.5

	310.75		
	3+0		
S		5.7	305.1
Crk		5.6	305.2
1/4		5.6	305.2
M		5.0	305.8
1/4		5.1	305.7
Crk		5.2	305.6
N		4.8	306.0
	3+25		
N		5.8	305.0
Crk		6.1	304.7
1/4		6.0	304.8
M		6.3	304.5
1/4		6.7	304.1
Crk		6.5	304.3
S		6.7	304.1

		3+50		
S			8.7	302.1
Crk			8.8	302.0
1/4			8.6	302.2
M			8.0	302.8
1/4			7.7	303.1
Crk			7.9	302.9
N			7.4	303.4
		3+75		
N			9.8	301.0
Crk			10.1	300.7
1/4			10.0	300.8
M			10.0	300.8
1/4			10.8	300.0
Crk			11.0	299.8
S			10.8	300.0
T.P.	2.84	300.98	12.61	298.14

300.98

4+0

S	3.2	297.8
Crk	3.5	297.5
1/4	3.3	297.7
M	2.4	298.6
1/4	2.5	298.5
Crk	2.7	298.3
N	2.3	298.7

4+25

N	4.4	296.6
Crk	4.9	296.1
1/4	4.8	296.2
M	5.0	296.0
1/4	5.5	295.5
Crk	5.7	295.3
S	5.6	295.4

4+50

S	8.0	293.0
Crk	8.2	292.8
1/4	8.0	293.0
M	7.4	293.6
1/4	7.6	293.4
Crk	7.9	293.1
N	7.5	293.5

4+75

N	9.8	291.2
Crk	10.2	290.8
1/4	10.0	291.0
M	9.8	291.2
1/4	10.3	290.7
Crk	10.6	290.4
S	10.6	290.4

		300.98		
		5+00		
S			13.2	287.8
Crk			13.1	287.9
"/4			12.8	288.2
M			12.4	288.6
"/4			12.5	288.5
Crk			12.1	288.9
N			11.9	289.1
T.P.	1.70	289.75	12.93	288.05
		5+25		
N			3.1	286.7
Crk			3.3	286.5
"/4			3.8	286.0
M			3.5	286.0
"/4			4.6	285.2
Crk			4.7	285.1
S			4.7	285.1

		289.75		
		5+50		
S			7.5	282.3
Crk			7.0	282.8
"/4			6.6	283.2
M			6.3	283.5
"/4			5.7	284.1
Crk			5.6	284.2
N			5.6	284.2
		5+75		
N			8.6	281.2
Crk			8.5	284.3
"/4			8.6	284.2
M			9.0	280.8
"/4			9.4	280.4
Crk			9.7	280.1
S			10.2	279.6

289.75

5783

S	11.5	278.3
calc	11.1	278.7
H	10.8	279.0
M	10.5	279.3
H	10.0	279.8
calc	10.3	279.5
N	12.0	277.8

640 = Wilt 315

N	22.6	267.2
calc	20.7	269.1
H	19.8	270.0
M	18.2	271.6
H	15.7	274.1
calc	14.5	275.3
S	14.5	275.3

x-section Quince st 30th to 31st 60' wide 5' gutters, H. Durkee
" " " "

	314.45		
	1+00		
S	5.7	308.8	
Crk	5.9	308.6	
⅛	5.8	308.7	
M	5.2	309.3	
⅛	5.9	308.6	
Crk	5.7	308.8	
N	5.6	308.9	
	1+25		
N	6.5	308.0	
Crk	6.3	308.2	
⅛	5.9	308.8	
M	5.3	309.2	
⅛	6.2	308.3	
Crk	6.4	308.1	
S	6.2	308.3	

	314.45		
	1+50		
S	6.6	307.9	
Crk	7.0	307.5	
⅛	6.5	308.0	
M	6.5	308.0	
⅛	6.6	307.9	
Crk	6.6	307.9	
N	6.4	308.1	
	1+75		
N	6.9	307.6	
Crk	6.5	308.0	
⅛	6.4	308.1	
M	6.1	308.4	
⅛	6.5	308.0	
Crk	6.4	308.1	
S	6.3	308.2	

	314.45		
	2+00		
S		6.7	307.8
Crk		7.0	307.5
1/4		6.8	307.7
M		7.0	307.5
1/4		7.1	307.4
Crk		7.2	307.3
N		7.3	307.2
	2+25		
N		8.4	306.1
Crk		7.8	306.7
1/4		7.4	307.1
M		6.8	307.7
1/4		6.6	307.9
Crk		6.7	307.8
S		6.4	308.1

	314.45		
	2+50		
S		6.7	307.8
Crk		6.9	307.6
1/4		6.9	307.6
M		7.6	306.9
1/4		8.6	305.9
Crk		8.9	305.6
N		10.3	304.2
	2+75		
N		19.0	295.5
Crk		14.4	300.1
1/4		13.0	301.5
M		9.2	305.3
1/4		8.0	306.5
Crk		7.8	306.7
S		7.6	306.9

		314.45		
		3+0		
S			8.7	305.8
crk			9.7	304.8
"A			10.4	304.1
M			13.0	301.5
T.P.	0.70	302.30	12.85	301.60
"A			6.1	296.2
crk			8.1	294.2
N			15.3	287.0
		3+25		
N			23.0	279.3
crk			16.2	286.1
"A			13.5	288.8
M			8.6	293.8
"A			3.3	
crk			2.1	
S			0.7	301.6

		302.30		
		3+50		
S			9.6	292.7
T.P.	0.44	290.34	12.40	289.90
crk			1.4	
"A			2.7	
M			6.7	283.6
"A			12.4	277.9
crk			14.3	276.0
N			18.3	272.0
		3+75		
N			26.6	263.7
crk			24.7	265.6
"A			23.8	
M			21.1	269.2
"A			14.8	
crk			13.5	
S			10.1	280.2
T.P.	0.71	278.04	13.01	277.33

		278.04		
		470		
S			7.7	270.3
Crk			11.5	
1/4			13.8	
M			20.2	257.8
1/4			21.0	
Crk			21.9	
N			22.2	255.8
		4725		
N			23.3	254.7
Crk			23.9	
1/4			23.4	
M			23.9	254.1
1/4			22.9	
Crk			20.1	
S			14.4	263.6
T. P.	0.72	265.97	12.79	265.25

		265.97		
		4750		
S			8.5	257.5
Crk			13.5	
1/4			15.6	
M			12.9	253.1
1/4			12.7	
Crk			10.3	
N			9.0	257.0
		4775		
N			5.2	260.8
Crk			9.1	
1/4			10.6	
M			13.7	252.3
1/4			14.6	
Crk			15.0	
S			14.4	251.6

		265.97		
		5+0		
S			15.5	250.5
Crb			15.5	
½			14.8	
M			12.4	253.6
½			5.4	
Crb			2.5	
T.P.	11.86	277.48	0.35	265.62
N			9.5	268.0
		5+25		
N			1.0	276.5
Crb			5.5	
½			7.5	
M			14.7	262.8
½			22.3	
Crb			23.7	
S			26.6	250.9

		277.46		
		5+50		
S			18.9	258.6
Crb			15.6	
½			13.5	
M			8.0	269.5
T.P.	12.41	289.29	0.60	276.88
½			11.7	
Crb			9.5	
N			4.3	285.0
T.P.	-5.04	293.37	0.94	288.33
		5+75		
N			4.4	289.0
Crb			6.8	
½			8.5	
M			14.3	279.1
½			21.3	
Crb			23.0	
S			26.1	267.3

~~313.37~~

670 = W.L. 31st St

S	15.6	278
Calv	11.9	
"	9.0	
M	6.0	287.4
"	3.8	
Calv	3.1	
M	4.9	291.5

19

1-section Front St Walnut to UP33 — 9/17/10 Dunkle Shaw Evans
" " 80' wide 5'½"
B.M. brass M/g 1st & Walnut 250.90

B.M.	2.42	253.32			
			0+15		
	5. L. Walnut				
W		3.6	249.7	5.7	247.6
				4.6	
Crb		3.3		8.9	
½				9.2	
¼		3.2			
M		3.5	249.8	8.7	244.6
½		9.0		6.9	
Crb		3.5		6.9	
E		2.9	250.4	T.P. 3.77	346.51 10.58 242.74
				E	+0.8 347.3
	0+07 3			0+25	
E		9.7	245.6	E	1.1 245.2
Crb		5.4		Crb	1.4
½		5.0		¼	1.5
M		3.9	249.4	M	2.7 243.8
½		3.8		+16	3.7
Crb		3.6		½	2.4
W		3.7	249.6	Crb	2.6
				+8	0.0
				W	1.4 245.1

	246.51		
	0+50		
W	3.6	242.9	
+3	3.5		
+7	5.5		
crk	5.5		
1/4	5.2		
M	3.9	242.6	
1/4	3.3		
crk	2.9		
E	2.2	244.3	
	0+75		
E	2.8	243.7	
crk	3.7		
1/4	4.0		
M	5.1	241.4	
1/4	6.4		
crk	6.7		
W	6.6	239.9	

	246.51		21
	1+0		
W	7.1	239.4	
crk	7.1		
1/4	7.0		
M	5.2	241.3	
1/4	4.2		
crk	3.9		
E	3.0	243.5	
	1+25		
E	3.4	243.1	
crk	4.5		
1/4	4.6		
M	5.8	240.7	
1/4	7.2		
crk	7.5		
W	8.8	237.7	

2+16.51

1+50

W	8.4	238.1
crb	7.6	
1/4	7.3	
M	5.9	240.6
1/4	4.8	
crb	4.4	
E	3.2	243.3

1+66 = N.L. UP 85

E	3.9	242.6
crb	4.7	
1/4	5.0	
M	6.4	241.1
1/4	7.5	
Crb	7.6	
W	8.5	238.0

9 Hatch X Sec. Florence St from
6 Moore
1910. Rogers 34th & 35th

BM	9.45	16.85		6.396	SE Cor 34th and National
	1062	24.27	220	13.65	
		Et. 34th			
S			12.5	12.8	
ab			12.1	12.2	
1/4			11.4	12.9	
C			11.4	12.9	
1/4			10.7	13.6	
ab			11.7	12.6	
N			11.7	12.6	
		25' E			
N			8.2	16.1	
ab			8.3	16.0	
1/4			8.3	16.0	
C			8.2	16.1	
1/4			8.7	15.6	
ab			8.8	15.5	
S			9.4	14.9	

2427
50' E

S		6.0	15.3	
ab		5.6	18.7	
1/4		5.4	18.9	
C		4.6	19.7	
1/4		4.7	19.6	
ab		5.1	19.2	
N		5.2	19.1	
	75' E			
N		2.5	21.5	
ab		2.4	21.9	
1/4		1.9	22.5	
C		1.7	22.6	
1/4		2.5	21.9	
ab		2.1	22.2	
S		2.2	22.1	
TP	12.28	3.632	023	24.04

36,32

100' E

S	11.2	25.1
sb	12.3	25.0
sa	11.9	24.4
C	11.6	24.7
na	11.5	24.8
Nb	12.0	24.3
N	12.5	23.8

125' E

N	9.6	26.7
Nb	9.2	27.1
na	8.7	27.6
C	8.3	28.0
sa	8.4	27.9
Sb	7.1	29.2
S	6.3	30.0

36,82

150 E

S	2.1	34.2
Sb	2.9	33.4
sa	4.5	31.8
C	5.7	30.6
na	6.9	29.4
Nb	7.3	29.0
N	7.9	28.4

175 E

N	6.0	30.3
Nb	6.0	30.3
na	5.1	31.2
C	4.2	32.1
sa	3.1	33.2
Sb	1.7	34.6
S	1.3	35.0

36.32

200' E

S	1.7	34.6
S	1.9	34.4
1/4	3.3	33.0
C	3.5	32.8
1/4	4.1	32.2
S	4.6	31.7
N	4.8	31.5

225' E

N	3.9	32.4
S	3.7	32.6
1/4	3.3	33.0
C	3.1	33.2
1/4	3.0	33.3
S	2.1	34.2
S	1.6	34.7

36.32

250' E

S	1.1	35.2
S	1.2	35.1
1/4	2.0	34.3
C	2.1	34.2
1/4	2.2	34.1
S	2.5	33.8
N	2.6	33.7

270' E

N	0.9	35.4
S	0.8	35.5
1/4	0.5	35.8
C	0.4	35.9
1/4	0.3	36.0
S	+0.4	36.7
S	+0.5	36.8
TP	1302 49.04	030 36.02

A904

300 E

S	10.3	38.7
ab	10.5	38.5
1/4	11.4	37.6
c	11.5	37.5
1/4	11.6	37.4
d	11.9	37.1
N	12.1	36.9

325 E

N	10.7	38.3
ab	10.5	38.5
1/4	10.0	39.0
c	10.0	39.0
1/2	10.0	39.0
cd	8.9	40.1
S	8.7	40.3

A904

350 E

S	7.1	41.9
ab	7.2	41.8
1/4	8.0	41.0
c	8.4	40.6
1/4	8.5	40.5
cd	8.9	40.1
N	9.1	39.9

375 E

N	7.9	41.1
ab	7.7	41.3
1/4	7.4	41.6
c	7.1	41.9
1/4	6.9	42.1
cd	5.9	43.1
S	5.6	43.4

	49.04		
	400' E		
S		4.4	44.6
A		4.7	44.3
1/a		3.6	43.4
E		5.7	43.3
1/4		6.1	42.9
Ch.		6.6	42.4
N		6.6	42.4
	425' E		
N		5.4	43.6
Ch.		6.3	43.7
b		4.7	44.3
C		4.5	44.5
1/4		4.1	44.9
Ch.		3.5	45.5
S		3.1	45.9

		49.04		
		450 E		
S			1.5	47.5
A			1.9	47.1
1/a			2.7	46.3
C			3.1	45.9
1/a			3.8	45.2
A			4.2	44.8
N.			4.3	44.7
		475 E		
N.			2.8	46.2
A			2.6	46.4
b			1.8	47.2
C			1.4	47.6
1/a			1.1	47.9
A			0.4	48.6
S			0.1	48.9
T.P	7.21	56.11	0.14	48.90

56.11

500 E

S	5.2	50.9
ab	5.6	50.5
1/4	5.3	50.8
C	6.5	49.6
1/4	7.2	48.9
ab	8.0	48.1
N	8.4	47.7

525 E

N	7.2	48.9
ab	5.7	50.4
1/4	6.0	50.1
C	4.4	51.7
1/4	4.0	52.1
ab	4.2	51.9
S	4.1	52.0

56.11

550 E

S	8.0	59.1
ab	2.9	53.2
1/4	3.8	52.3
C	4.2	51.9
1/4	5.0	51.1
ab	5.8	50.3
N	6.0	50.1

575 E

N	5.6	50.5
ab	5.2	50.9
1/4	4.6	51.5
C	4.1	52.0
1/4	3.6	52.5
ab	3.2	52.9
S	2.5	53.6

56 11

600 E = Wh. 35 1/2

s	2.96	53.75	Hub.
ab	2.9	53.12	
1/a	3.2	52.9	
c	2.5	54.6	
1/c	3.9	52.2	
b	4.9	51.2	
N	4.9	51.1	

9/6 Hatch Dec Alley between Cleveland Moore and Maryland Meade and 10. Rogers Monroe.

BM	3.35	35108	34773	St. Cleveland Cor Monroe
		St. Monroe		
E		4.1		
Cr		4.4		
W		5.2		
		25' S		
W		5.1		
Cr		4.2		
E		4.2		
		150' S		
E		4.3		
Cr		4.4		
W		4.8		
		75'		
W		5.2		
Cr		4.7		
E		4.4		

30

30

		35108		
		100' S		
E		5.1		
Cr		5.2		
W		5.2		
		125' S		
W		5.4		
Cr		5.3		
E		5.4		
		150' S		
E		4.4		
Cr		5.0		
W		5.3		
		175' S		
W		6.2		
Cr		6.1		
E		6.1		

351.08

200'S

E 4.3
Cr 6.1
W 5.9

225'S

W 5.3
Cr 5.9
E 6.1

250'S

E 4.9
Cr 5.2
W 5.4

275'S

W 5.6
Cr 6.0
E 6.1

357.08

300'S

E 5.6
Cr 5.9
W 5.9

TP 5.21 350.74 5.55 345.53

325'S

W 5.4
Cr 5.2
+S 4.8
E 4.7 / 3.2

350'S

E 5.1
Cr 5.8
W 5.7

375'S

W 5.6
Cr 5.2
E 4.9

3507.74

400'S

E 5.1

CR 4.6

W 4.4

455'S

W 5.8

CR 5.5

E 5.6

450'S

E 5.7

CR 5.8

W 5.9

475'S

W 5.4

CR 4.6

E 4.6

32

3507.74

500'S

F 6.1

CR 5.9

W 6.1

525'S

W 6.0

CR 6.2

E 4.8

550'S

E 5.9

CR 5.7

W 6.0

575'S

W 6.5

CR 6.8

E 6.6

350.74
596 S.

E 7.0
Cr 6.8
W 6.8
600 = Nt Mud.
W 8.8
Cr 9.0
E 9.6

Levels on Grand Ave (Pac Beach) between 1/3 Dunkle, Pendleton & intersection of S.L. Garnet on N.L. & between 1/3 Shaw Hotham
" " " W.L. of Pac Beach Add on S.L.
Levels taken on curb line as graded distances taken on property L.

B.M. spk in pole 0.99	34.54	33.55

S. Curb Line Grand Ave

E.L. Pendleton	6.1	28.4
0+25 - E	6.4	28.1
0+50	6.5	28.0
0+75	6.8	27.7
1+0	7.2	27.3
1+25	7.4	27.1
1+50	7.7	26.8
1+75	8.0	26.5
2+0	8.2	26.3
2+25	8.5	26.0
2+50	8.8	25.7
2+75	9.0	25.5
3+0 = end of curb as graded	9.4	25.1
3+18½ = E.L. Pac Beach Add. Prop. L.	9.7	24.8

N. curb Line Grand Ave

E.L. Pendleton	5.2	29.3
0+25 E	5.7	28.8
0+50	6.2	28.3
0+75	6.6	27.8
1+0	6.9	27.6
1+25	7.4	27.1
1+50	7.7	26.8
1+85 = Intsection S.L. Garnet	7.8	26.7

2/7/14 Clear Warm Fair

X Sec of 29th St (80')
N & of S Park to S & of Park Date St
(20' walks)

	1084	22387	212.99	Bm MW Beam & Cedar

119.5 S of Date St = N & S Park

W		5.9	218.0
bl		6.1	217.8
	Gutter	6.7	217.2
y		6.5	217.4
b		6.1	217.8
y		6.5	217.4
	Gutter	6.8	217.1
W		6.5	217.7
E		6.0	217.9

116' of Date St

W		3.2	220.7

22387

100 S of Date St

E		1.3	222.6
bl		2.8	221.1
y		3.4	220.5
b		4.0	219.9
y		3.5	220.4
bl		3.3	220.6
W		2.8	221.1

75' S of Date St

W		2.9	221.0
bl		2.8	221.1
y		2.4	221.5
b		2.6	221.3
y		2.7	221.2
bl		2.6	221.3
	+15	2.0	221.9
E		1.3	222.6

22387

	50	S of	Date	at
E			1,8	222,1
bk			2,8	221,1
4			3,0	220,9
6			2,7	221,2
4			3,0	220,9
bk			3,4	220,5
W			3,4	220,5

	25'	S of	Date	at
W			4,6	219,3
bk			3,7	220,2
4			3,1	220,8
6			2,9	221,0
4			2,7	221,2
bk			2,3	221,6
E			1,7	222,7

22387

		S Sin	of	Date	at	(60)
E				0,8		223,0
bk				1,8		222,0
4				2,3		221,6
6				2,9		221,0
4				3,4		221,5
bk				3,8		220,1
W				4,3		219,6
	TP	1018	23175	2,30		221,7

	N Sin	of	Date	at	(60)
W					
bk					
		22387			
		230			
		221.57			
		10.18			
		231.75			

29 at

23.75

X-sec 29th St (60' wid)

N Side of Date to S Side of N Park

W		9.8	222.0
bk		9.9	221.9
y		9.1	222.7
b		8.8	223.0
y		7.6	224.2
bk		7.1	224.7
E		6.3	225.5
E			

25' n of Date St

E		5.3	226.5
bk		6.3	225.5
y		7.1	224.7
b		7.6	224.2
y		8.0	223.8
bk		9.0	222.8
W		9.1	222.7

23.75

50' n of Date St

W		8.8	223.0
bk		7.9	223.9
y		7.3	224.5
b		6.3	225.5
y		5.7	226.1
bk		5.5	226.3
E		4.9	226.9

75' n of Date St

E		3.6	228.2
bk		4.3	227.5
y		5.4	226.4
b		6.0	225.8
y		6.9	224.9
bk		7.2	224.1
W		8.3	223.5

231.75

	100	n f	Date	st
W			7.0	224.8
bb			6.6	225.2
y			6.0	225.8
b			5.3	226.3
y			4.7	227.1
bb			4.0	227.8
E			3.2	228.6

	125'	n f	Dat	st
E			1.5	229.3
bb			3.1	228.7
y			3.9	227.9
b			4.9	226.9
y			5.0	226.8
bb			5.5	226.3
W			6.4	225.4

231.75

	150'	n f	Date	st
W			5.8	226.0
bb			5.0	226.8
y			4.3	227.5
b			4.0	227.8
y			3.8	228.0
bb			3.0	228.8
E			2.1	229.7

	175'	n f	Dat	st
E			2.1	229.7
bb			3.0	228.8
y			3.4	228.4
b			3.6	228.2
y			4.1	227.7
bb			4.6	227.2
W			5.2	226.6

	231,75			
	200	m f	Dat	et
W			4,5	227,3
bl			4,0	227,8
y			3,7	228,1
b			3,0	228,8
y			2,7	229,1
bl			2,3	229,5
E			1,9	229,9
	225	m f	Dat	et
E			1,4	230,4
bl			2,0	229,8
y			2,3	229,5
b			2,8	229,0
y			3,2	228,6
bl			3,4	228,4
W			3,8	228,0

	231,75			29 IX
	250	m f	Dat	et
W			2,5	229,3
bl			2,4	229,4
y			2,2	229,6
b			1,9	229,9
y			1,6	230,2
bl			1,0	230,8
E			0,8	231,0
	275	m f	Dat	et
E			0,0	231,8
bl			0,3	231,5
TP	3,49	235,03	0,21	231,54
y			3,9	231,1
b			4,1	230,9
y			4,4	230,6
bl			4,5	230,5
W			4,5	230,1

23503

E	300'		
W		4.8	230.2
bk		4.5	230.5
4		4.0	231.0
b		3.5	231.5
4		3.2	231.8
W		2.8	232.2
E		2.2	232.8
	320'	N 4 = S 2 Elm	(60)'
E		1.8	233.2
bk		2.4	232.6
4		2.9	232.1
b		3.4	231.6
4		3.8	231.2
bk		4.1	230.9
W		4.7	230.3
TP	372	233.44	5.31	229.72

23344

29 A 20

40

N line of Elm St

W	11.6	221.8
bk	11.8	221.6
4	11.0	222.4
b	9.7	223.7
4	7.7	225.7
bk	5.3	228.1
E	3.3	230.1

7' N 4 Elm

W2	14.0	219.4
E2	6.0	227.4

Holes are regular V

2334.4

	25'		Elev	
E			1.4	232.0
bb			2.0	231.4
y			2.5	230.9
b			3.0	230.4
y			3.8	229.6
bb			5.2	228.2
W			8.6	224.8
	50	n y	Elev	
W			4.3	229.1
bb			3.5	229.9
y			2.7	230.7
b			2.0	231.4
y			1.5	231.9
bb			0.6	232.8
E			0.0	233.4

2334.4

	75'	2 y	Elev	
E			0.1	233.3
bb			1.1	232.3
y			2.2	231.2
b			3.0	230.4
y			3.9	229.5
bb			4.9	228.5
W			5.8	227.6
	100'	w y	Elev	
W			7.3	226.1
bb			6.7	226.7
y			5.8	227.6
b			4.8	228.6
y			3.6	229.8
bb			2.3	231.1
E			1.4	232.0
TP	1.33	233.65	1.1V	232.3V

233.65

	175	n of	Elm St	
E			3.1	230.6
bk			4.5	229.2
y			5.8	227.9
b			6.8	226.9
y			8.0	225.7
bk			9.2	223.5
W			10.3	223.4
	150	n of	Elm St	
W			13.0	220.7
bk			11.5	222.2
y			10.2	223.5
b			9.0	224.7
y			7.5	225.2
bk			6.5	226.2
E			3.2	228.5

233.63

	175	n of	Elm St	
E			7.5	226.2
bk			8.9	224.8
y			10.5	223.2
b			11.9	221.8
y			13.2	220.5
bk			15.5	218.2
		224.34		
W			10.0	214.3
TP	335	224.24	12.6	209.8 Rock
	200	n of	Elm St	
W			16.5	207.7
bk			14.0	210.2
y			10.4	213.8
b			6.2	218.0
y			4.5	219.7
bk			3.0	221.2
E			1.2	223.0

	225'	n ℄	Elev	
E			8.8	215.4
bb			11.3	212.9
W			13.2	211.0
b			14.8	209.4
W			13.0	211.2
bb			10.3	213.9
W			7.9	216.3
	238'	n ℄	Elev	Return
E			12.5	211.7
bb			13.0	211.2
	14.59	x33.48		22.089

22424

TP

	250'	n ℄	Elev	
W			10.4	223.1
bb			10.3	223.2
W			10.8	222.7
b			11.4	222.1
W			13.3	220.2
bb			15.1	218.4
E			16.8	216.7
	275	n ℄	Elev	
E			6.6	226.9
bb			5.9	227.6
W			5.9	227.6
b			6.2	227.3
W			6.6	226.9
bb			6.8	226.7
W			7.0	226.5
TP	14.88	24.99	4.37	22.911

x33.48

29 ct

24.99

30' n of Elm st

W	12.3	229.7
bl	12.3	229.7
y	12.0	230.0
b	11.5	230.5
y	11.3	230.7
bl	11.0	231.0
E	10.6	231.4

320 n of S Lf 7th st (60)

E	8.3	233.7
bl	8.8	233.2
y	9.2	232.8
b	9.6	232.4
y	9.9	232.1
bl	10.0	232.0
W	9.9	232.1

TP 12.91 250.11 47.9 237.20

250.11

25' n of 7th st

W	12.4	237.7
bl	12.2	237.9
y	12.2	237.9
b	11.9	238.2
y	11.7	238.4
bl	11.3	238.8
E	11.0	239.1

25' n of 7th st

E	8.7	241.4
bl	9.1	241.0
y	9.3	240.8
b	9.7	240.2
y	10.3	239.8
bl	10.9	239.2
W	11.5	239.6

25-011

	50'	m f	7 in	∠
W			10.8	239.3
bh			9.9	240.2
y			8.9	241.2
b			8.0	242.1
y			7.1	243.0
bh			6.8	243.3
E			6.4	243.7
	75'	m f	7 in	∠
E			4.0	246.1
bh			5.0	245.1
y			5.8	244.3
b			6.6	243.5
y			7.7	242.4
bh			8.8	241.3
W			9.9	240.2

25011

	100'	m f	7 in	∠
W			8.9	241.2
bh			7.8	242.3
TP	11.05	25586	5.30	24451
y			11.9	2490
b			10.1	245.8
y			9.0	246.9
bh			8.0	247.9
E			7.2	248.7
	125'	m f	7 in	
E			5.7	250.2
bh			6.3	249.6
y			7.2	248.7
b			8.2	247.7
y			9.2	246.7
bh			10.5	245.4
W			12.6	243.3

25-86

	150'	ft	7in	ft
N			9.6	246.3
NE			8.7	247.2
E			7.7	248.2
SE			6.6	249.3
S			5.9	250.0
SW			5.1	250.8
W			4.5	251.4
	175'	ft	7in	ft
W			3.4	252.5
NW			4.0	251.9
N			4.6	251.3
NE			5.5	250.4
E			6.1	249.8
SE			7.1	248.8
S			8.2	247.7

25-86

	200'	ft	7in	ft
S			7.2	248.7
SW			6.2	249.7
W			5.2	250.7
NW			4.5	251.4
N			3.9	252.0
NE			3.1	252.8
E			2.4	253.5
	225'	ft	7in	
E			1.6	254.3
SE			2.3	253.6
S			2.9	253.0
SW			3.8	252.1
W			4.6	251.3
NW			5.4	250.5
N			6.5	249.3

25-86

250 n of 7in st

W	6,8	249.1
bk	5,9	250.0
y	5-0	250.9
b	3,8	252.1
y	3,0	252.9
bk	2,1	253.8
E	1,4	254.5

275 n of 7in st

E	1,2	254.7
bk	2,0	253.9
y	2,9	253.0
b	4,1	251.8
y	5-5	250.4
bk	6,6	249.3
W	8,1	247.8

287 n of 7in

W	9,8	246.1

25-86

300 n of 7in st

W	8,4	247.5
bk	8,6	247.3
y	8,5	247.4
b	5,3	250.6
y	3,5	252.4
bk	2,5	253.4
E	1,6	254.3

317 n of 7in

E	2,6	253.3
bk	3,2	252.7
y	5-6	250.3
bk	6,8	249.1
y	7,0	248.9
bk	6,8	249.1
W	7,0	248.9

47

25586

310' n = S & t Grade St (75) Grade

W	6.9	249.0
bl	7.1	248.8
"	6.5	249.4
b	6.0	249.9
y	6.0	249.9
bk	6.0	249.9
E	4.9	251.0

TP 12.31 26229 5.84 249.98

R Sur of Grade St

E	7.5	252.8
bh	10.4	251.9
y	10.3	252.0
b	10.4	251.9
y	10.8	251.5
bh	11.7	250.6
W	11.0	251.3

26229

4' n of Grade St

W	9.1	253.2
bk	8.3	254.0
y	7.6	254.7
b	7.0	255.3
y	6.7	255.6
bh	6.2	256.1
E	6.0	256.3

25' n Grade St

E	4.3	258.0
bh	4.5	257.8
y	5.0	257.3
b	5.4	256.9
y	6.1	256.2
bh	6.8	255.5
W	7.0	255.3

26229

50' n of Graphite

W	5.6	258.7
bk	5.3	257.0
y	5.0	257.3
b	4.5	257.8
y	3.6	258.7
bk	3.4	258.9
E	3.0	259.3

T.P. 7.27 26696 260 259.69

75' n of Graphite

E	6.9	260.1
bk	7.1	259.9
y	7.6	259.4
b	7.7	259.3
y	8.3	258.7
bk	8.6	258.4
W	9.1	257.9

26696

100' n of Graphite

W	8.2	258.8
bk	7.6	259.4
y	7.0	260.0
b	6.5	260.4
y	6.2	260.8
bk	6.0	261.0
E	5.8	261.2

125' n of Graphite

E	4.7	262.3
bk	5.3	261.7
y	5.7	261.3
b	5.7	261.3
y	6.5	260.5
bk	7.0	260.0
W	7.3	259.7

2677

	150'	n of	Grade	
W			6.6	260.4
bk			6.4	260.6
y			5.6	261.4
b			5.3	261.7
y			4.8	262.2
bk			4.3	262.7
E			4.1	262.9
	175'	n of	Grade	
E			3.4	263.6
bk			3.7	263.3
y			4.3	262.9
b			4.5	262.5
y			4.8	262.2
bk			5.7	261.3
W			6.0	261.0

2696

	200'	n of	Grade	
W			5.2	261.8
bk			4.8	262.2
y			4.2	262.8
b			3.8	263.2
y			3.4	263.6
bk			3.1	263.9
E			2.7	264.3
	225'	n of	Grade	
E			2.2	264.8
bk			2.5	264.5
y			2.8	264.2
b			3.1	263.9
y			3.5	263.5
bk			4.1	262.9
W			4.4	262.6
TP	688	270.02	3.82	263.4

27002

250' n of Grape st

W	6.8	2632
bb	6.5	2635
y	5.7	2643
b	5.5	2645
y	5.0	2650
bl	4.9	2651
E	4.8	2652

275' n of Grape st

E	3.8	2662
bb	4.2	2658
y	4.4	2656
b	4.9	2651
y	5.2	2648
bl	5.8	2642
W	6.1	2639

27002

300' n of S st of Hawthorne (80)

W	5.1	2649
bb	4.9	2651
y	4.8	2652
b	4.6	2654
y	4.0	2660
bl	3.6	2664
E	3.2	2668

S bl of Hawthorne st

E	3.1	2669
bb	3.4	2666
y	3.9	2661
b	4.2	2658
y	4.4	2656
bl	4.6	2654
W	5.2	2648

2700 2

S 1/4 of Hawthorn St

W	4,8	265.2
bb	4,3	265.7
y	4,2	265.8
L	3,9	266.1
y	3,7	266.3
bb	3,3	266.7
E	2,8	267.2

Center of Hawthorn

E	2,9	267.1
bb	3,1	266.9
y	3,4	266.6
b	3,7	266.3
y	4,0	266.0
bb	4,4	265.6
W	4,6	265.4

2700 2

N 1/4 of Hawthorn

W	4,5	265.5
bb	4,3	265.7
y	4,0	266.0
b	3,6	266.4
y	3,2	266.8
bb	3,0	267.0
E	2,7	267.3

N bb of Hawthorn

E	2,5	267.5
bb	3,0	267.0
y	3,2	266.8
b	3,5	266.5
y	3,9	266.1
bb	4,1	265.9
W	4,5	265.5

27002

	N Line of Hawthorne		
W		4,3	263.7
bb		4,0	266.0
y		3,7	266.3
b		3,4	266.6
y		3,3	266.7
bb		2,9	267.1
E		2,6	267.4
	25' n of	Hawthorne	
E		3,0	267.0
bb		3,4	266.6
y		3,4	266.6
b		3,6	266.4
y		3,8	266.2
bb		4,1	263.9
W		4,5	265.4

27002

	50' n of	Hawthorne	
W		5,1	264.9
bb		4,6	265.4
y		4,3	265.7
b		4,1	265.9
y		4,4	265.6
bb		5,2	264.8
E		5,3	264.5
	75' n of	Hawthorne	
E		13,0	257.0
bb		10,7	259.3
y		9,1	260.9
b		8,0	262.0
y		7,2	262.8
bb		6,7	263.3
W		7,0	263.0

270.2

S	100'	N of	Hawthorn St	
W			9.8	260.2
bk			10.5	259.5
TP	1.35'	258.42	1.95	257.87
4			5.3	253.1
6			11.4	247.0
4			14.6	243.8
bk			11.5	246.9
E			8.6	249.8
20' E of E			1.3	257.1
	94'	N of	Hawthorn	
20' E of E			4.0	254.4
E			12.3	246.1
bk			13.1	245.3
	116'	N of	Hawth	
E			0.0	258.4
bk			8.0	250.4
4			14.4	244.0
46			17.7	240.7
6				

258.42

	125'	N of	Hawthorn	
C. E of E			0.0	258.4
E			6.0	252.4
bk			10.4	248.0
4			15.2	243.2
6			18.9	239.5
4			13.8	244.6
bk			12.2	246.2
W			11.0	247.4
30' W of W			11.0	247.4
	137'	N		
E			7.0	260.54
bk			9.0	249.4

25842

6'E 25E2	150'	n of	Hawthorn	
			0,0	258.4
E			6,0	252.4
bh			6,5	251.9
4			6,0	262.4
L			11,4	247.0
4			13,8	248.0
bh			18,6	239.8
W			23,0	238.4
30' w of W			27.1	231.3
	166	n of	Hawthn	
	26827			
E			4,8	263.5
bh			6,1	262.2
4			9,1	259.2

(no locust reported)

25842

	175'	n of	Hawthorn	
W			13,4	245.0
bh			10,2	248.2
4			8,6	249.8
b			5,2	253.2
TP	11,8 W	26877	1,97	256.45
4			10,2	258.1
bh			5,6	262.7
E			4,3	264.0
	260	n of	Hawthorn	
E			3,2	265.1
bh			4,1	264.2
4			5,0	263.3
b			5,7	262.6
4			6,6	261.7
bh			8,6	259.7
W			10,7	257.6
	204' n	of	Hawthorn	
W2			84	250.0

26827

225' n of Hawthorn

W	6.1	262.2
bk	5.2	263.1
y	4.8	263.5
b	4.2	264.1
y	3.5	264.8
bk	2.7	265.6
E	2.0	266.3

250' n of Hawthorn

E	1.1	267.2
bk	1.7	266.6
y	2.4	265.9
b	3.0	265.3
y	3.5	264.8
bk	3.9	264.4
W	4.2	264.1

26827

275' n of Hawthorn

W	3.1	265.2
bk	2.6	265.7
y	2.4	265.9
b	2.0	266.3
y	2.0	266.3
bk	1.4	266.9
E	0.2	268.0

298' n of Hawthorn

E	+0.3	268.6
bk	1.3	268.0
y	1.9	266.4
b	2.7	265.6
y	2.3	266.0
bk	2.2	266.1
W	2.3	266.0

26827

300' n = S of Ivy st (80')

W	2,3	266.0
bb	2,3	266.0
y	2,1	266.2
b	2,6	265.7
y	2,3	266.0
bb	1,9	266.4
E	3,2	265.1

S bb of Ivy st

E	3,5	264.8
bb	3,0	265.3
y	3,0	265.3
b	2,1	266.2
y	2,6	265.7
bb	2,3	266.0
W	2,0	266.3

26827

29th

S 1/4 of Ivy st

W	2,6	265.7
bb	2,3	266.0
y	3,0	265.3
b	2,7	265.6
y	2,6	265.7
bb	2,6	265.7
E	3,4	264.9

Center of Ivy st

E	3,0	265.0
bb	2,2	266.1
y	2,5	265.8
b	2,4	265.9
y	2,9	265.4
bb	2,9	265.4
W	3,0	265.3

26827

6' n of center of Hwy

W	3.0	265.3
bk	3.3	265.0
4	3.0	265.3
6	2.8	265.5
4	2.9	265.4
bk	2.1	266.2
E	3.3	265.0

N 1/4 of Hwy

E	3.3	265.0
bk	6.6	261.7
4	9.3	259.0
6	8.8	259.5
4	5.0	263.3
bk	3.3	265.0
W	2.5	265.8

26827

N bk of Hwy 2

W	4.8	263.5
bk	9.6	258.7
4		
6		
4		
bk		
E	3.2	265.1

N line of Hwy 2

E	3.0	265.3

TP	3.2	25859	12980 25547

N bk of Hwy 2

E bk	0.5	258.1
1/4	6.5	252.1
6	9.0	249.6
W 4	5.8	252.8

25859

2 Line of Ivy St

W2	1,3	237.3
bk	8,1	250.5
4	13,0	245.6
b	16,6	242.0
4	9,4	249.2
bk	2,0	256.6

25' n of Ivy St

E		
bk		
4	11,0	254.6
b	11,4	247.2
4 +3' +8'	18,0 20,6 20,7	240.6 238.0 237.9
bk	18,5	240.1
W	13,4	245.2
10' w of W2	6,0 + m	258.6

25859

50 n of Ivy St

40' w of W2	16,0	242.6
25' W of W2	16,0	242.6
W	23,7	234.9
bk	21,9	236.7
4	13,7	245.4
b	8,7	249.9

75' n of Ivy St

45' W of W2	28,7	229.9
22' W of W2	29,0	227.6
W2	20,7	237.9
bk	16,0	242.6
4	10,1	248.4
b	4,8	253.8

(No Culvert)

25-8.59

	100'	n f	Irv N	
40' W of N2	Abbr Continues Lower		2.37	244.9
N2			11.0	248.6
bb			7.7	250.9
4			3.4	253.2
TP	1.76	268.23	3.12	255.47
	25'	n f	Irv N	
E2			4.0	264.2
bb			9.1	259.1
	50'	n f	Irv N	
E2			+0.2	268.4
E bb			5.6	262.6
E 4			11.3	256.9
	75	n f	Irv N	
E2			+0.5	268.7
bb			4.9	263.3
4			9.7	258.5

new P2

266.23

	100'	n f	Irv N	
E2			—	
bb			6.4	267.8
4			2.0	266.2
b			8.3	259.9
TP	1.087	277.90	1.20	267.03
	100'	n f	Irv N	
E2			8.9	269.0
	175'	n f	Irv N	
E2			7.9	270.0
bb			9.2	268.7
4			10.4	269.5
b			11.7	266.2
4			13.2	264.7
bb			15.0	262.9
W2			17.3	260.6

27790

	150'	n f	Irg	⊥
W 2			16.3	261.6
bh			14.3	263.6
y			12.9	265.0
b			11.3	266.6
y			8.9	269.0
bh			8.1	269.8
E			7.8	270.1
	175'	n f	Irg	
E			6.3	271.6
bh			8.3	269.6
y			9.4	268.5
b			11.4	266.5
y			14.3	263.6
H			16.4	261.5
W			18.2	259.7

27790

	200'	n f	Irg	⊥
10' W			20.0	257.9
W			17.8	260.1
bh			12.0	265.8
y			8.4	269.5
b			6.2	271.7
y			2.8	275.1
H			2.0	275.9
			2.0	275.9
E			3.7	274.2
	225'	n f	Irg	⊥
E			2.3	275.6
bh			0.6	277.3
y			0.0	277.9
b			3.5	274.4
y			7.6	270.3
bh			12.5	265.4
W				

277.91

	250' n of	Inv	
E		2.3	276.4
bk		0.3	277.6
✓		0.8	277.1
b		5.5	272.4
✓		9.0	268.9
bk		13.0	264.9
	275' n of	Inv ↓	
E		5.3	272.6
bk		4.5	273.4
✓		5.0	272.9
b		6.0	271.9
✓		7.4	270.5
bk		10.0	268.9
TP	5.32	274.24	8.98	268.92

(No culvert required)

274.24

	225' n of	Inv	
WL		17.2	257.0
30' w of WL			235.8
55' w of WL + Slope down			227.8
	250' n of	Inv	
WL		16.6	257.6
30' w of WL Level w of this			241.0
	275' n of	Inv	
WL		10.6	263.6
15' w of WL Level west of this			255.60

Elevate for blades

	0.60	261.60	13.24	261.00
15' w of WL			6.0	255.60
TP	0.0	248.77	12.83	248.77
			13.0	235.8
			7.7	241.0
			21.0	227.8

235' n of Inv

55' w of WL 228.0

27424

300' N = SL of Juniper St (BC) (Graded)

W	9,7	2650	
bl	9,4	2648	
y	8,9	2653	
l	8,7	2660	
y	7,8	2664	
bl	7,4	2668	
E	7,3	2669	

N Line of Juniper St

N of Juniper 2915 St is 2.5' E of S side

W	7,7	2670	
bl	7,1	2671	
y	6,1	2681	
l	5,6	2686	
y	5,7	2690	
bl	5,7	2680	
E	4,7	2700	
TP	737	28077	0884 27340

28077

2' n of Juniper St

E	3,9	2767	
bl	5,7	2756	
y	6,0	2748	
l	6,7	2741	
y	7,5	2733	
bl	8,4	2724	
W	9,4	2714	

2915

2.5' n of Juniper

W	8,4	2724	
bl	7,8	2730	
y	6,7	2741	
l	5,6	2752	
y	5,7	2756	
bl	4,0	2768	
E	2,6	2782	

28077

50' n of Juniper St

E	2.3	278.5
bk	4.5	276.3
y	4.5	276.3
b	5.4	275.4
y	6.0	274.8
bk	6.9	273.9
W	7.9	272.9

75' n of Juniper St

W	7.7	273.1
bk	6.7	274.1
y	5.9	274.9
b	5.7	275.7
y	4.3	276.5
bk	3.3	277.5
E	1.5	279.3

28077

100 n of Juniper St

E	0.8	280.0
bk	2.7	278.1
y	4.0	276.8
b	5.2	275.6
y	6.1	274.7
bk	7.0	273.8
W	7.7	273.1

125' n of Juniper St

W	8.8	272.0
bk	8.0	272.8
y	6.8	274.0
b	6.0	274.8
y	4.1	276.7
bk	2.4	278.4
E	0.6	280.2

28077

154° $n = p.d$

E	3,5	277.3
h	4,3	276.5
y	6,6	274.2
l	8,5	272.3
y	10,3	270.5
H	11,7	269.6
W	12,7	268.6

Gold finch

Bearing & dist of Gold finch St (60) from Bar 380' north

SE Prop Stake Barr & Kew St

	490	25 41.5		249.25
TP	1.29	24 57.3	10 21	243.94

N Lg of Barr St

W		21	243.1
bk		22	
y		16	
b		11	244.
y		14	
bk		19	
E		25	242.7

245.25

	25	n to	Barr St	
E			40	244.2
bk			42	
y			44	
b			46	240.4
y			50	
bk			53	
W			54	239.8
	50	n to	Barr St	
W			83	236.9
bk			83	
y			84	
b			76	232.6
y			67	
bk			66	
E			58	239.4

245-23

	75'	n f	Barn	
E			8.9	236.3
bk			9.4	
4			9.8	
b			9.9	235.3
4			10.0	
bk			10.7	
W			10.8	234.4
	100	n f	Barn	
W			13.0	232.2
bk			13.2	
4			13.0	
b			14.5	232.7
4			11.8	
bk			10.5	
E			9.2	236.0

245-23

	125'	n f	Barn	
E			9.2	236.0
bk			9.5	
4			13.8	
	145'	n f	Barn	
E			10.0	235.2
bk			10.4	
	150'	n f	Barn	
E			12.3	232.9
TP	0.10	23301	12.2	23291
	125'	n f	Barn	
E 1/4			1.6	
b			3.0	230.0
4			4.0	
bk			4.4	
W			3.6	229.4
	145'	n f	Barn	
E 1/4			4.7	

X3301

	150'	n/f	Barn	
W			9.8	223.2
bl			10.0	
y			9.8	
b	76'		7.7	
			5.6	227.4
y			5.0	
bl			2.4	
E			0.90	232.9
	175'	n/f	Barn	
E			4.5	228.5
bl			5.4	
	+11'		5.7	
y			8.8	
b			11.0	222.0
y			13.3	
bl			16.4	
	+ 5'		21.0	
W			18.0	215.0

X3301

Goldfinch

	200'	n/f	Barn	
E			8.0	225.0
bl			9.5	
y			11.2	
b			15.3	217.7
TP	0.22	22044	12.79	X2012
y			6.8	
bl			10.0	
W			12.4	208.0
	225'	n/f	Barn	
W			17.7	202.7
bl			13.3	
y			10.0	
b			6.0	214.4
y			3.3	
bl			0.8	
E			+0.5	220.9

2044

	250	m/	Barr	17-4
E			2,8	212.6
bb			4,8	
4			7,0	
b			9,0	211.4
4			13,0	
	275	m/	Barr	11
E			7,0	213.4
bb			9,7	
4			12,0	
b			18,0	202,4
TP	-0,01	20760	1477	20767
	250	m/	Barr	
Wd			12,0	195.6
bb			5,9	

20760

	275	m/	Barr	
W			—	
bb			14,4	
4			7,8	
	300	m/	Barr	
E			04	207,4
bb			1,7	
4			4,0	
b			8,0	199.6
4			13,8	
	325	m/	Barr	
E			5,3	202.3
bb			7,6	
4			9,4	
b			14,7	193.4
	347			
E			11,0	196.6
TP	0,90	19540	1310	19450

1955-40

350 n of Barn

E 2.0 192.9
bk 7.0
4 12.0
b

380 n = Pueblo Dr

E 18.5 176.9

275 n of Barn

W 2 11.5 183.9

300 n of Barn

W 2 18.2 182.2
+2' 16.4
bk 8.5

325 n of Barn

W 19.4 176.0
+4' 24.2
bk 18.0

1955-40

350 n of Barn

W 25.0 170.4
bk Pueblo 33.0 162.4

380 n = Pueblo Dr

W 23.4 172.4
bent 43.4 152.4

8189

#400

Published by H. S. Crocker Company, Stationers, Drawing Materials, Mathematical Instruments, etc., San Francisco.

TRAVERSE TABLE FOR TRANSIT BOOK.

From 1° to 90° for a distance of 100.

Degrees.	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		Degrees.
	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
0			100.00	0.44	100.00	0.87	99.99	1.31	89
1	99.98	1.75	99.98	2.18	99.97	2.62	99.95	3.05	88
2	99.94	3.49	99.92	3.93	99.91	4.36	99.88	4.80	87
3	99.86	5.23	99.84	5.67	99.81	6.10	99.79	6.54	86
4	99.76	6.98	99.73	7.41	99.69	7.85	99.66	8.28	85
5	99.62	8.72	99.58	9.15	99.54	9.58	99.50	10.02	84
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	83
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	82
8	99.03	13.92	98.97	14.35	98.90	14.78	98.84	15.21	81
9	98.77	15.64	98.70	16.07	98.63	16.50	98.56	16.93	80
10	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	79
11	98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.36	78
12	97.81	20.79	97.72	21.22	97.63	21.64	97.53	22.07	77
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	76
14	97.03	24.19	96.92	24.62	96.81	25.04	96.70	25.46	75
15	96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	74
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.82	73
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	72
18	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	71
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	70
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	69
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	68
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	67
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	66
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	65
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	64
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	63
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	62
28	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	61
29	87.46	48.48	87.25	48.86	87.04	49.24	86.82	49.62	60
30	86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	59
31	85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	58
32	84.80	52.99	84.57	53.36	84.34	53.73	84.10	54.10	57
33	83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	56
34	82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	55
35	81.92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	54
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	53
37	79.86	60.18	79.60	60.53	79.34	60.88	79.07	61.22	52
38	78.80	61.57	78.53	61.91	78.26	62.25	77.99	62.59	51
39	77.71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	50
40	76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	49
41	75.47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	48
42	74.31	66.91	74.02	67.24	73.73	67.56	73.43	67.88	47
43	73.14	68.20	72.84	68.52	72.54	68.84	72.24	69.15	46
44	71.93	69.47	71.63	69.78	71.33	70.09	71.02	70.40	45
45	70.71	70.71							

Degrees.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Degrees
	DEGREES		¾ DEGREE.		½ DEGREE.		¼ DEGREE.		