455

Return to City Engineers Office
City Hall, San Diego, Cal.

LEVEL

F.B. 455

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

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MINUTES.	LKS.	MINUTES.	LKS.	MIN.	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

TABLE FOR RUNNING ON SLOPES.

MICROFILMED 1964

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

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1 2

X-section University – Albatross to West extremity Dunkle
Note. University 63.3' wide, Shane
B.M. Brass Plg. N.E. University & 2nd St. POSTED 278.51 Lambert

B.M.	2.92	281.43		278.51
T.P.	1.18	269.70	12.91	268.52
T.P.	0.14	257.64	12.20	257.50
T.P.	0.33	245.97	12.00	245.64
T.P.	7.16	245.40	7.73	238.24
	W.L. Albatross			
N			9.6	235.8
Crb			13.0	232.4
1/4			15.3	230.1
M			17.9	227.5
1/4			20.0	225.4
Crb			21.3	224.1
S			22.3	223.1
	0+25' W			
S			19.8	225.6
Crb			18.2	227.2
1/4			15.6	229.8
M			13.2	232.2
1/4			9.5	235.9
Crb			6.1	239.3
N			2.5	242.9
T.P.	10.49	255.00	0.89	244.51

		255.00		
		0+50		
N			0.6	254.4
Crb			3.4	251.6
1/4			8.4	246.6
M			12.8	242.2
1/4			16.5	238.5
Crb			21.1	233.9
S.			24.7	230.3
T.P.	12.46	266.78	0.68	254.32
		0+75		
S			32.5	234.3
Crb			26.1	240.7
1/4			22.9	243.9
M			16.9	249.9
1/4			11.0	255.8
Crb			4.3	262.5
N			1.0	265.8

plotted

	266.78		
	1+0		
N		0.8	266.0
+7		1.4	265.4
crb		3.7	263.1
1/4		8.5	258.3
M		13.5	253.3
1/4		19.5	247.3
crb		24.9	241.9
S		30.9	235.9 ~~236.0~~
	1+25		
S		31.8	235.0
crb		27.0	239.8
1/4		21.5	245.3
M		16.1	250.7
1/4		10.1	256.7
crb		5.6	261.2
N		1.6	265.2

		266.78		
		1+50		
N			7.4	259.4
crb			12.6	254.2
1/4			17.2	249.6
M			21.5	245.3
1/4			25.1	241.7
crb			29.3	237.5
S			33.3	233.5
		1+75		
S			29.0	237.8
crb			26.0	240.8
1/4			24.5	242.3
M			22.4	244.4
1/4			19.6	247.2
crb			16.1	250.7
N			8.9	257.9
T.P.	1.91	267.62	1.07	265.71

	267.62	
2+0		
N	4.8	262.8
crk	6.9	260.7
1/8	11.5	256.1
M	13.4	254.2
1/4	16.6	251.0
crk	19.3	248.3
S	23.2	244.4
2+25		
S	20.4	247.2
crk	16.4	251.2
1/4	12.2	255.4
M	7.8	259.8
1/4	4.5	263.1
crk	3.5	264.1
N	2.8	264.8

	267.62	
2+50		
N	2.3	265.3
crk	2.4	265.2
1/4	3.7	263.9
M	7.3	260.3
1/4	11.2	256.4
crk	16.7	250.9
S	21.1	246.5
2+75		
S	26.1	241.5
crk	22.1	245.5
1/4	18.5	249.1
M	13.2	254.4
1/4	9.0	258.6
crk	5.0	262.6
N	3.2	264.4

	267.62		
	3+0		
N		7.8	259.8
Crb		15.4	252.2
1/4		10.0	257.6
M		31.5	236.1
1/4		33.3	234.3
Crb		36.1	231.5
S		37.6	230.0
	3+25		
S		26.9	240.7
Crb		25.9	241.7
1/4		24.7	242.9
M		25.2	242.4
1/4		26.0	241.6
Crb		20.1	247.5
N		13.7	253.9 ~~254.0~~

	267.62		
	3+44 - 2 = E.L. Brant 50' wide		
N		9.3	258.3
Crb		15.8	251.8
1/4		15.3	252.3
M		13.5	254.1
1/4		13.9	253.7
Crb		15.4	252.2
S		18.2	249.4
	E. Curb Brant.		
S		13.8	253.8
Crb		12.1	255.5
1/4		10.1	257.5
M		9.8	257.8
1/4		11.1	256.5
Crb		11.0	256.6
N		5.6	262.0

267.62

E 1/4 Brant

N	4.1	263.5
Crb	5.4	262.2
1/4	5.2	262.4
M	5.6	262.0
1/4	7.5	260.1
Crb	8.9	258.7
S	10.5	257.1

Center

S	11.3	256.3
Crb	5.8	261.8
+ 4	4.1	263.5
1/4	4.0	263.6
M	3.6	264.0
1/4	4.1	263.5
Crb	3.1	264.5
N	2.8	264.8

W 1/4

N	2.8	264.8
Crb	3.1	264.5
1/4	3.5	264.1
M	3.8	263.8
1/4	4.1	263.5
Crb	5.1	262.5
S	9.8	257.8

W. curb

S	7.5	260.1
Crb	4.8	262.8
1/4	4.3	263.3
M	3.9	263.7
1/4	3.5	264.1
Crb	3.2	264.4
N	3.0	264.6

~~267.62~~ 262

W. L. Brant

N	2.3	265.3
crk	2.9	264.7
1/4	3.2	264.4
M	3.5	264.1
1/4	4.0	263.6
crk	4.1	263.5
S	4.1	263.5

0+25

S	2.5	265.1
crk	2.9	264.7
1/4	2.7	264.9
M	2.5	265.1
1/4	2.7	264.9
crk	2.5	265.1
+9	2.1	265.5
N	1.6	266.0

0+50

N	2.1	265.5
crk	2.5	265.1
1/4	2.6	261.0
M	2.4	265.2
1/4	3.0	264.6
crk	3.0	264.6
S	2.8	264.8

0+75

S	2.8	264.8
+1	3.2	264.4
crk	3.6	264.0
1/4	3.7	263.9
M	3.0	264.6
1/4	3.3	264.3
crk	3.0	264.6
N	2.4	265.2

~~3~~ 2 67.62

1+0

N	2.5	265.1
+1	3.1	264.5
crb	3.5	264.1
1/4	3.5	264.1
M	3.3	264.3
1/4	4.1	263.5
crb	4.2	263.4
S	3.6	264.0

1+25

S	4.5	263.1
crb	4.1	263.5
1/4	4.4	263.2
M	3.8	263.8
1/4	4.0	263.6
crb	3.9	263.7
+9	3.5	264.1
N	2.9	264.7

1+50

N	3.6	264.0
+1	4.1	263.5
crb	4.7	262.9
1/4	4.6	263.0
M	4.7	262.9
1/4	5.3	262.3
crb	5.1	262.5
+9	5.1	262.5
S	4.2	263.4

1+75

S	6.5	261.1
crb	6.3	261.3
1/4	5.9	261.7
M	5.7	261.9
1/4	5.5	262.1
crb	5.3	262.3
+6	5.0	262.6
N	4.5	263.1

Zero = W. extremity of University Arc

N	5.9	261.7
Crb	5.9	261.7
1/4	6.3	261.3
M	6.7	260.9
1/4	7.2	260.4
Crb	7.8	259.8
S	9.5	258.1

PC ED

Levels for Sewer on Brant St from flush tank which is 1.5 ft N of S.L. of Juniper to S.L. Laurel

flush Tank = 0+0. Levels taken in center of Brant

B.M. brass plg. S.W. cor Hawthorn Junion				99.88
B.M.	11.39	111.27		99.88
T.P.	11.98	122.50	0.75	110.52
T.P.	10.50	131.94	1.06	121.44
		0+0		
0+0 Top flush Tank			4.28	127.66
0+0 bottom " "			7.86	124.08
0+25			3.4	128.5
0+50			2.8	129.1
0+75			2.9	129.0
1			2.7	129.2
1+25			2.0	129.9
1+50			1.5	130.4
1+75			0.9	131.0
2+0			0.4	131.5
T.P.	11.24	142.92	0.26	131.68
2+25			11.0	131.9
2+50			10.7	132.2
2+75			10.2	132.7

POSTED

2/10/09 Dunkle Space Lambert.		142.92		
3+0			9.8	133.1
3+25			9.4	133.5
3+50			9.3	133.6
3+75			8.9	134.0
4+0			8.4	134.5
4+25			8.2	134.7
4+50			7.3	135.6
4+75			6.6	136.3
5+0			5.3	137.6
5+25			3.9	139.0
5+50			2.5	140.4
5+75			0.8	142.1
T.P.	11.96	154.54	0.34	142.58
6+0			11.0	143.5
6+25			9.6	144.9
6+50			8.0	146.5
6+75			6.2	148.3
7+0			4.8	149.7
7+25			3.4	151.1
7+59.6 = S.L. Laurel			1.0	153.5

POSTED

Levels on Third St "B" St to Elm St. 2/24/09 Dunkle
All elevations taken on present curb Shaw
B.M. cross-plg Third & "C" St 41.96 Lambert

B. M.	8.42	50.38		41.96		
		N.L. "B" St			Est. Grade	
W. curb		POSTED	5.96	44.42	44.50	-.08
E "			4.96	45.42	45.50	-.08
		0+25 N				
E. curb			4.52	45.86	45.92	-.06
W. "			5.46	44.92	44.92	Ok.
		0+50				
W. crb			5.09	45.29	45.33	-.04
E "			4.10	46.28	46.33	-.05
		0+75				
E crb			3.75	46.63	46.75	-.12
W. "			4.65	45.73	45.75	-.02
		1+0				
W crb			4.27	46.11	46.17	-.06
E			3.29	47.09	47.17	-.08

		1+25			Est. Grade	
E crb		50.38	2.88	47.50	47.59	-.09
W. "			3.87	46.51	46.59	-.06
		1+51	Change in grade			
W. crb			3.42	46.96	47.00	-.04
E "			2.45	47.93	48.00	-.07
		1+75				
E crb			0.39	49.99	50.08	-.09
W. "			1.45	48.93	49.17	-.24
T.P.	12.60	62.97	0.01	50.37		
		2+0				
W. crb			12.00	50.97	51.33	-.36
E. "			10.88	52.09	52.17	-.08
		2+25				
E crb			8.88	54.09	54.25	-.16
W. "			9.58	53.39	53.50	-.11

	62.97				
	2+50				
W. crb		7.41	55.56	55.67	-.11
E "		6.80	56.17	56.33	-.16
	2+75				
E. crb		4.72	58.25	58.42	-.17
W. "		5.25	57.72	57.84	-.12
	3+0 = S.L. "A" st				
W crb		3.07	59.90	60.00	-.10
E "		2.61	60.36	60.50	-.14
	N.L. "A" st.				
E crb		1.92	61.05	61.00	+.05
W. "		2.5	60.47	60.50	-.03
	0+25 N.				
W crb		1.71	61.26	61.33	-.07
E. "		1.14	61.83	61.88	-.05

		0+50			
E crb		62.97	0.29	62.68	62.75	-.07
W "			0.77	62.20	62.17	Ok
T.P.	11.72	74.49	0.20	62.77		
		0+75				
W crb			11.40	63.09	63.00	+.09
E. "			11.10	63.39	63.62	-.23
		1+0				
E crb			10.25	64.24	64.50	-.26
W. "			10.48	64.01	63.83	+.18
		1+25				
W. crb			9.56	64.93	64.67	+.26
E "			9.46	65.03	65.38	-.35
		1+50				
E crb			8.67	65.82	66.25	-.43
W. "			8.72	65.77	65.50	+.27

	74.49				
	1+75				
W. crb		7.92	66.57	66.33	+.24
E "		7.70	66.79	67.12	-.33
	2+0				
E. crb		6.73	67.76	68.00	-.24
W. "		7.05	67.44	67.16	+.28
	2+25				
W crb		6.40	68.09	68.00	+.09
E. "		5.84	68.65	68.88	-.23
	2+50				
E crb		4.93	69.56	69.75	-.19
W "		5.68	68.81	68.83	O.K.
	2+75				
W. crb		4.92	69.57	69.67	-.10
E "		4.04	70.45	70.63	-.18

	3+0 = S.L. Ash, S.t.				
E. crb		3.09	71.40	71.50	-.10
W "		9.11	70.38	70.50	-.12
	N.L. Ash.				
W. Crb		2.51	71.98	72.0	O.k.
E "		1.02	73.47	73.50	O.k.
T. P.	12.35	85.82	1.02	73.47	
	0+25' N.				
E crb		11.24	74.58	74.63	-.05
W "		12.64	73.18	73.21	O.K.
	0+50				
W. crb		11.40	74.42	74.42	O.K.
E "		10.21	75.61	75.75	-.14
	0+75				
E crb		9.04	76.78	76.88	-.10
W "		10.22	75.60	75.62	O.K.

	85.82				
	1+0				
W crb		8.99	76.83	76.83	O.K.
E "		7.83	77.99	78.00	O.K.
	1+25				
E crb		6.69	79.13	79.13	O.K.
W "		7.84	77.98	78.04	-.06
	1+50				
W crb		6.43	79.39	79.25	+.14
E "		5.49	80.33	80.25	+.08
	1+75				
E crb		4.57	81.25	81.38	-.13
W "		5.46	80.36	80.46	-.12
	2+0				
W crb		4.52	81.30	81.67	-.37
E "		3.44	82.38	82.50	-.12
	2+25				
E crb		2.21	83.61	83.63	O.K.
W "		3.33	82.49	82.87	-.38

	2+50				
W crb	85.82	2.14	83.68	84.08	-.40
E "		1.13	84.69	84.75	-.06
	2+75				
E crb		0.03	85.79	85.88	-.09
W "		1.0	84.82	85.29	-.47
T.P.	1248	97.78	0.22	85.60	
	3+0 = S.L. Beech St				
W crb		11.78	86.00	86.50	-.50
E crb		10.92	86.86	87.00	-.14
	N.L. Beech				
E crb		9.22	88.56	88.50	+.06
W "		9.78	88.00	88.00	O.K.
	0+25				
W crb		8.35	89.43	89.42	O.K.
E "		7.23	90.05	90.04	O.K.
	0+50				
E crb		6.25	91.53	91.58	-.05
W "		6.17	90.81	90.83	O.K.

POSTED

					Cal. Grade	
		97.78				
		0+75				
W Crb			5.56	92.22	92.25	O.K.
E "			4.69	93.09	93.13	O.K.
		1+0				
E crb			3.16	94.62	94.67	O.K.
W "			4.13	93.65	93.66	O.K.
		1+25				
W. crb			2.74	95.04	95.08	O.K.
E "			1.64	96.14	96.21	-.07
		1+50				
E crb			0.08	97.70	97.75	O.K.
W "			1.30	96.48	96.50	O.K.
T.P.	10.90	108.60	0.48	97.70		
		1+75				
W. crb			10.73	97.87	97.91	O.K.
E "			9.35	99.25	99.29	-.04

					Cal. Grade	
		108.60				
		2+0				
E crb			7.90	100.70	100.84	-.14
W "			9.32	99.28	99.32	O.K.
		2+25				
W crb			7.89	100.71	100.75	O.K.
E "			6.26	102.34	102.38	O.K.
		2+50				
E crb			4.77	103.83	103.92	-.09
W "			6.49	102.11	102.17	-.06
		2+75				
W crb			5.08	103.52	103.58	-.06
E "			3.23	105.37	105.46	-.09
		3+0 - S.L. Cedar St.				
E crb			1.67	106.93	107.00	-.07
W "			3.64	104.96	105.00	
		N.L. Cedar				
W. crb			0.51	108.09	108.00	+.09
T.P.	7.08	115.17	0.51	108.09		
E. Crb			5.17	110.00	110.00	O.K.

	115.17				
	0+25 W of Cedar				
E. crb		4.47	110.70	110.75	-.05
W "		6.53	108.64	108.58	+.06
	0+50				
W crb		5.87	109.30	109.17	+.13
E "		3.75	111.42	111.50	-.08
	0+75				
E crb		2.98	112.19	112.25	-.06
W "		5.26	109.91	109.75	+.16
	1+00				
W crb		4.65	110.52	110.33	+.19
E "		2.24	112.93	113.00	-.07
	1+25				
E crb		1.50	113.67	113.75	-.08
W "		4.45	110.72	110.91	-.19
	1+45				
W crb		3.99	111.18	111.38	-.20
E crb		0.96	114.21	114.25	OK

	1+50				
No curb private driveway					
W curb	115.17	3.88	111.29	111.50	-.21
	1+55				
W curb		3.94	111.23	111.42	-.19
E "		1.01	114.16	114.35	-.17
	1+75				
E crb		1.51	113.66	113.75	-.09
W "		4.27	110.90	111.09	-.19
	2+0				
W crb		4.65	110.52	110.67	-.15
E "		2.26	112.91	113.0	-.09
	2+25				
E crb		3.11	112.06	112.25	-.19
W "		5.26	110.11	110.25	-.14
	2+50				
W crb		5.45	109.72	109.83	-.11
E "		3.77	111.40	111.50	-.10

		115.17				
		2+75				
E Crb			4.52	110.65	110.75	-.10
W "			5.85	109.32	109.42	-.10
		3+0 = S.L. Date st				
W Crb			6.24	108.93	109.0	-.07
E "			5.28	109.89	110.0	-.11
		N.L. Date				
E Crb			5.64	109.53	110.0	-.47
W "			6.0	109.17	110.0	-.83
T.P. Brs. Plg. Date 3rd Sta	11.23	120.57	5.83	109.34		
		0+25 N of Date				
W Crb			9.12	111.45	112.29	-.84
E "			9.06	111.51	112.29	-.78
		0+50				
E Crb			6.56	114.01	114.58	-.57
W "			6.33	114.24	114.58	-.34

		120.57				
		0+75				
W. Crb			3.86	116.71	116.88	-.17
E "			4.06	116.51	116.88	-.37
		1+0				
E Crb			1.64	118.93	119.17	-.24
W "			1.58	118.99	119.17	-.18
T.P.	11.77	131.89	0.45	120.12		
		1+25				
W Crb			10.78	121.11	121.46	-.35
E "			10.64	121.25	121.46	-.21
		1+50				
E Crb			8.31	123.58	123.75	-.17
W "			8.31	123.58	123.75	-.17
		1+75				
W Crb			5.77	126.12	126.04	+.08
E "			6.01	125.88	126.04	-.16

		131.89				
		2+0				
E Crb			3.68	128.21	128.34	-.13
W "			3.51	128.38	128.34	+.04
		2+25				
W. crb			1.29	130.60	130.63	-.03
E "			1.35	130.54	130.63	-.09
T. P.	8.99	140.77	0.11	131.78		
		2+50				
E crb		POSTED	7.96	132.81	132.92	-.11
W "			7.93	132.84	132.92	-.08
		2+75				
W. crb			5.65	135.12	135.21	-.09
E "			5.73	135.04	135.21	-.17
		3+0 = 5.L. Elm St				
E. Crb			3.29	137.48	137.50	O.K.
W "			3.30	137.47	137.50	OK

B.M. Brass Pg cor Elm & Third Sts. 1.31

x-sec First St. Maple to Nutmeg				2/25/09	Dunkle
Note. Curb is in on W. side from Maple North for 144.8'					Shaw
B.M. brass b/g car First & Maple				223.99	Lambert
	N.L. Maple				
B.M.	5.17	229.16		223.99	
W.L.			4.9	224.3	
curb			5.19	224.0 x	
gutter			5.8	223.4	
1/4			5.3		
M			4.5	224.7	
1/4			4.3		
crb			3.8	225.4 x	
+ 1			2.3		
E.L.			1.4	227.8	
		0+25	N. of Maple		
E.L.			1.7	227.5	
+ 12			1.8		
crb			3.3	225.9 x	
+ 2			4.6		
1/4			4.2		
M			4.6	224.6	
1/4			5.6		
gutter			6.2		
crb			5.53	223.63 x	
W.L.			5.5	223.7	

		229.16		
		0+50		
W.L.			5.8	223.4
crb			5.74	223.32 x
gutter			6.6	
1/4			5.8	
M			5.0	224.2
1/4			4.6	
+ 12			4.8	
crb			3.7	225.5 x
+ 2			2.1	
+ 7			1.4	
E.L.			2.8	226.4
		0+75		
E.L.			3.2	226.0
+ 7			1.6	
+ 10			2.1	
+ 12			4.0	
crb			5.5	223.7 x
1/4			5.2	
M			5.1	224.1
1/4			6.3	
gutter			6.7	
crb			6.01	223.15
W.L.			6.1	223.1

POSTED

	229.16		
	1+0		
W.L.		6.4	222.8
crb		6.27	222.89 x
gutter		7.0	
1/4		6.6	
M		6.3	222.9
1/4		5.7	
crb		5.0	224.16
+3		3.7	
+7		3.1	
E.L.		3.8	225.4
	1+25		
E.L.		4.3	224.9
crb		6.4	222.8 x
1/4		7.5	
M		7.7	221.5
1/4		7.2	
gutter		7.2	
crb		6.55	222.61 x
W.L.		6.7	222.5

5+44.8 = end of curb & retaining wall			
W.L. Top of wall	229.16	6.75	222.41
W.L. bottom of wall		10.6	218.6
curb & wall		6.63	223.53
bottom of wall & curb.		11.7	217.5
1/4		10.7	
M		9.3	219.9
1/4		9.1	
crb		8.8	220.4 x
+1.0		7.9	
E.L.		5.5	223.7
	1+50		
E.L.		6.5	222.7
+6		9.5	
crb		9.5	219.7 x
1/4		9.4	
M		11.4	217.8
1/4		11.3	
crb		12.8	216.4 x
W.L.		13.8	215.4
T.P.	2.31	219.30	12.17	216.99

219.30

1+75

W.L.	10.8	208.5
crb	10.2	209.1 x
"9	9.0	
M	8.3	211.0
"9	7.7	
+5	4.2	
crb	4.3	215.0 x
+5	3.7	
E.L.	+0.9	220.2

2+0

E.L.	0.3	219.0
crb	7.6	211.7 x
"9	12.6	
M	14.7	204.6
"9	16.8	
crb	17.3	202.0 x
W.L.	18.0	201.3

2+25

W.L.	219.30 23.9	195.4
Crb	20.9	198.4 x
"9	16.9	
M	14.0	205.3
"9	11.1	
crb	7.0	212.3 x
E.L.	0.6	218.7

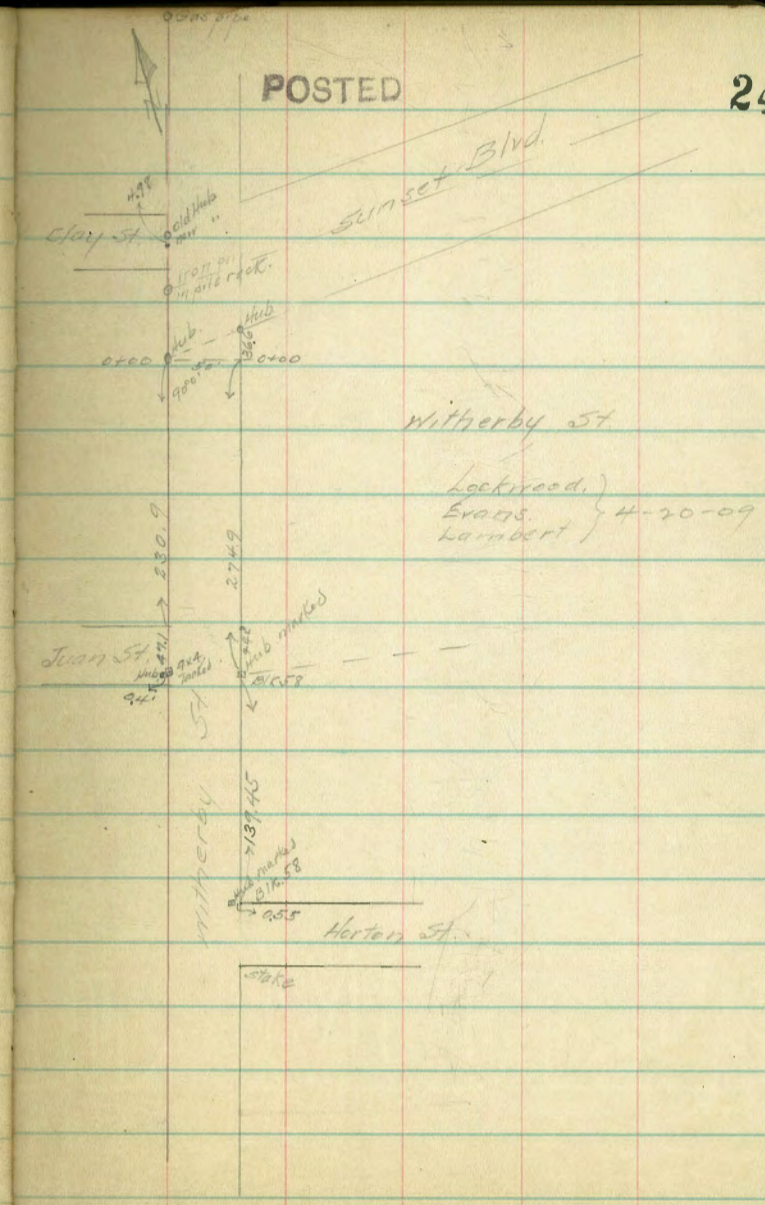
2+50

E.L.	+0.8	220.1
crb	4.3	215.0 x
"9	8.2	
M	11.7	207.6
"9	17.6	
Crb	19.9	199.4 x
W.L.	19.1	200.2

		219.30		
		2+75		
W.L.			11.7	207.6
crb			8.8	210.5 x
"4			8.3	
M.			9.2	210.1
"4			5.0	
T.P.	12.01	230.87	0.44	218.86
crb			13.0	217.9 x
E.L.			8.4	222.5
	3+00.8 = 5.2 Nutmeg St			
E.L.			0.8	230.1
crb			4.7	226.2 x
"4			13.2	
M			9.4	221.5
"4	POSTED		9.7	
crb			11.2	219.7 x
W.L.			13.5	217.4

POSTED

2.67	285.57		282.90	BM.
T.P. 0.59	274.81	11.85	274.22	



POSTED

Cross Sec. Witherby St. from Sunset to Horton St.

		H.I. 27481			
		S. line Sunset Blvd.			
E			8.9		265.9
cl.			9.1		265.7
1/4			8.7		266.1
c			8.2		266.6
1/4			8.1		266.7
cl.			8.9		265.9
W			9.1		265.7
		0+00			
W.			9.1		265.7
cl.			9.1		265.7
1/4			9.2		265.6
c			9.1		265.7
1/4			9.2		265.6
cl.			9.1		265.7
E			8.9		265.9

		0+25	
E			9.6
cl.			9.8
1/4			9.9
c			9.9
1/4			9.8
cl.			9.4
W.			9.3
		0+50	
W.			10.5
cl.			10.4
1/4			10.6
c			10.7
1/4			10.5
cl.			10.3
E			10.0

		0+75		
E			10.5	
cl.			10.9	
1/4			11.5	
ctr			11.5	
1/4			11.4	
cl.			11.0	
W.			11.0	
		1+00		
W.			12.0	
cl.			12.1	
1/4			12.2	
c			12.1	
1/4			11.9	
cl.			12.1	
E.		274.81	12.1	
T.P.	2.17	264.78	12.20	262.61

		1+25		
E			2.3	
cl.			2.7	
1/4			2.9	
c			3.2	
1/4			3.7	
cl.			4.1	
W.			4.4	
		1+50		
W.			5.8	
cl.			5.7	
1/4			5.6	
c			5.0	
1/4			4.2	
cl.			3.6	
E.			3.6	

1+75

E	5.4
ch.	6.2
1/4	6.6
c	7.0
1/4	7.2
ch.	7.6
W.	8.0

2+00

W.	10.3
ch.	9.6
1/4	9.0
c	8.4
1/4	7.9
ch.	7.7
E.	7.6

2+30.9 = N. Juan St

E.	9.8
ch.	10.0
1/4	10.9
c	11.3
1/4	11.8
ch.	12.2
W.	13.0

= N. curb. Juan St

W.	13.6
ch.	13.2
1/4	12.6
c	12.3
1/4	11.9
ch.	11.2
E	10.7

N 1/4 Juan St.

E			11.3	
ch.			12.0	
1/4			12.4	
c			12.9	
1/4			13.3	
ch.			13.8	
W.			14.5	

Center Juan St.

W.			15.5	
ch.			14.7	
1/4			13.8	
c			13.5	
1/4			12.9	
ch.			12.6	
E		264.78	11.9	
T.P	0.27	252.19	12.86	251.92
			0.77	251.42 BM Cement Plant at NW. Cor. Blk. 58

S 1/4 Juan St.

E	0.2
ch.	0.8
1/4	1.3
c	1.8
1/4	2.4
ch.	2.9
W.	3.7

S. curb Juan St.

W.	4.0
ch.	3.3
1/4	2.8
c	2.5
1/4	2.0
ch.	1.41
E	0.6

S. line of Juan St.

E	1.8
ch.	2.6
1/4	3.5
c	3.9
1/4	4.5
ch.	5.0
W.	5.5

25' S. of Juan St.

W.	7.8
ch.	7.2
1/4	6.4
c	5.8
1/4	5.6
ch.	4.8
E	3.3

50 S. of S.L. Juan St.

E.	5.2
ch	6.3
1/4	7.0
c	7.9
1/4	8.0
ch.	8.8
W.	9.6

75 S. of Juan.

W.	11.4
ch.	10.6
1/4	9.7
c	9.1
1/4	8.4
ch.	7.6
E	6.3

1+00

E.	7.5
ch.	8.7
1/4	9.7
c	11.1
1/4	11.6
ch.	12.1
W.	13.0

1+25

W.	14.4
ch.	12.8
1/4	11.7
c	10.9
1/4	10.0
ch.	9.1
E.	8.0

1+33.5 = N Line Horton St

E	8.6
ch.	9.3
1/4	10.5
c	11.4
1/4	12.7
ch	13.6
W.	14.8

in curb Horton St.

W.	15.7
ch.	14.4
1/4	12.5
c	12.0
1/4	10.8
ch.	9.7
E	8.5

N 1/4 Horton

E	9.2
ch.	10.4
1/4	11.2
c	12.0
1/4	13.0
ch.	14.9
W.	16.6

Center. Horton St.

W.	17.2
ch.	15.4
1/4	14.0
c	12.9
1/4	11.5
ch.	10.9
E	10.4

S 1/4 Horton St.

E	11.2
ch.	11.9
1/4	12.4
c	13.2
1/4	14.6
ch.	16.0
W.	17.7

S. curb. Horton St.

W.	19.0
ch.	16.6
1/4	14.7
c	13.6
1/4	12.8
ch.	12.1
E	11.5

S. Line Horton 54.

E	11.9
ob.	12.5
1/2	13.1
c	14.1
1/4	15.5
ob.	18.2
1/2	20.5

POSTED

1-section Cypress st Albert to Georgia 1/10/09 Dunkle
" " 80' wide Shane
B.M. Mon S.W. Indiana & Cypress 302.96 Evans,

B.M.	4.65	307.61		
T.P.	4.52	299.14	12.99	294.62
T.P.	6.14	292.71	12.57	286.57
	E.L. Albert			
S			3.5	289.2
Crb			4.0	288.7
1/4			4.7	288.0
M			8.6	284.1
1/4			12.2	280.5
Crb			16.1	276.6
N			20.5	272.2
+15			25.2	267.5
+30			30.1	262.6

		292.71		
		0+25	E	
−30			22.2	270.5
−15			16.8	275.9
N			11.2	281.5
Crb			7.2	285.5
1/4			5.3	287.4
M			4.5	288.2
1/4			4.1	288.6
Crb			3.5	289.2
S			2.7	290.0
		0+50		
S			3.0	289.7
Crb			4.1	288.6
1/4			4.9	287.8
M			5.9	286.8
1/4			7.1	285.6
Crb			8.5	284.2
N			12.0	280.7
+15			16.0	276.7
+30			21.4	271.3

		292.71		
		0+75		
−30			25.8	266.9
−15			21.2	271.5
N			18.0	274.7
crk			14.2	278.5
"4			12.9	279.8
N			10.4	282.3
"4			7.4	285.3
crk			7.0	285.7
S			4.5	287.9
T.P.	3.74	286.64	9.81	282.90
		1+0		
S			0.1	286.5
+6			3.1	283.5
crk			4.2	282.4
"4			6.9	279.7
N			8.0	278.6
"4			11.2	275.4
crk			14.9	271.7
N			17.0	269.6
+15			21.2	265.4
+30			26.0	260.6

		286.64		
		1+20		
−30			26.2	260.4
−15			24.1	262.5
N			20.6	266.0
crk			17.6	269.0
"4			14.9	271.7
N			11.7	274.9
"4			8.7	277.9
crk			6.2	280.4
S			4.0	282.6
		1+50		287.6
S			2.7	283.9
crk			3.6	283.0
"4			5.0	281.6
N			5.2	281.4
"4			6.6	280.0
crk			8.5	278.1
N			11.0	275.6
+15			11.0	275.6
+30			11.7	274.9
T.P.	12.53	298.16	1.01	285.63

298.16

1+75

— 15	12.0	286.2
N	12.2	286.0
crb	12.0	286.2
"a	11.3	286.9
M	11.2	287.0
"a	11.1	287.1
crb	11.4	286.8
S	11.2	287.0

2+0 = n.l. Herbert 80' wide

S	8.8	289.4
crb	9.3	288.9
"a	8.6	289.6
M	8.2	290.0
"a	8.9	289.3
crb	8.7	289.5
N	8.3	289.9

298.16

W. curb

N	8.0	290.2
crb	7.4	290.8
"a	7.2	291.0
M	7.6	290.6
"a	7.6	290.6
crb	7.3	290.9
S	7.7	290.5

N "a

S	7.1	291.1
crb	7.0	291.2
"a	7.0	291.2
M	6.8	291.4
"a	6.6	291.6
crb	7.1	291.1
N	6.9	291.3

298.16

Center

N	5.9	292.3
crb	6.3	291.9
½	6.9	291.3
M	6.9	291.3
½	6.6	291.6
crb	5.9	292.3
S	6.7	291.5

E ½

S	5.9	292.3
crb	5.9	292.3
½	6.0	292.2
M	5.3	292.9
½	4.9	293.3
crb	5.5	292.7
N	4.8	293.4

298.16

E. curb

N	3.5	294.7
crb	3.9	294.3
½	4.5	293.7
M	4.4	293.8
½	5.4	292.8
crb	4.8	293.4
S	5.1	293.1

E.L. Herbert

S	3.8	294.4
crb	4.3	293.9
½	4.8	293.4
M	4.6	293.6
½	4.4	293.8
crb	4.0	294.2
N	3.2	295.0

298.16

0+25 E

N	3.5	294.7
crk	3.6	294.6
1/4	3.6	294.6
M	4.0	294.2
1/4	3.5	294.7
crk	4.0	294.2
S	4.1	294.1

0+50

S	3.0	295.2
crk	3.8	294.4
1/4	3.6	294.6
M	4.0	294.2
+10	3.5	294.7
+11	2.8	295.4
1/4	2.8	295.4
crk	2.9	295.3
N	3.4	294.8

298.16

0+75

N	2.6	295.6
crk	2.7	295.5
+11	3.0	295.2
1/4	3.7	294.5
M	4.0	294.2
1/4	4.3	293.8
crk	4.5	293.7
S	3.8	294.4

1+0

S	4.9	293.3
crk	4.8	293.4
1/4	4.8	293.4
M	4.8	293.4
1/4	4.4	293.8
crk	3.7	294.5
N	4.0	294.2

298.16

1725

N	3.8	294.4
Crb	4.2	294.0
1/4	4.6	293.6
M	4.4	293.8
1/4	4.7	293.5
Crb	4.8	293.4
S	4.8	293.4

1750

S	4.8	293.4
Crb	4.9	293.3
1/4	4.8	293.4
M	4.8	293.4
1/4	4.9	293.3
Crb	4.6	293.6
N	4.0	294.2

298.16

1775

N	4.7	293.5
Crb	4.1	294.1
1/4	4.8	293.4
M	4.8	293.4
1/4	4.7	293.5
Crb	4.7	293.5
S	5.0	293.2

2-10

S	4.1	294.1
Crb	3.8	294.4
1/4	4.6	293.6
M	5.1	293.1
1/4	5.0	293.2
Crb	4.8	293.4
N	5.3	292.9

		298.16		
		2+25		
N			5.0	293.2
Crb			4.8	293.4
1/4			4.5	293.7
M			4.0	294.2
1/4			3.8	294.4
Crb			3.4	294.8
S			2.8	295.4
		2+50		
S			2.4	295.8
Crb			2.6	295.6
1/4			2.8	295.4
M			3.2	295.0
1/4			3.7	294.5
Crb			4.0	294.2
N			4.8	293.4

		298.16		
		2+75		
N			4.8	293.9
Crb			4.0	294.7
1/4			3.7	294.5
M			3.2	295.0
1/4			2.7	295.5
Crb			2.3	295.9
S			2.0	296.2
		3+0		
S			1.7	296.5
Crb			2.0	296.2
1/4			2.5	295.7
M			3.4	294.8
1/4			3.8	294.4
Crb			4.6	293.6
N			4.9	293.3
T.P.	11.06	304.89	4.33	293.83

304.89

3+25

N	10.6	294.3
crb	11.2	293.7
"/4	10.8	294.1
M	10.6	294.3
"/4	10.2	294.7
crb	9.5	295.4
S	9.4	295.5

3+50

S	9.5	295.4
crb	10.0	294.9
"/4	10.3	294.6
M	10.3	294.6
"/4	10.5	294.4
crb	10.1	294.8
N	9.4	295.5

304.89

3+75

N	8.2	296.7
crb	8.3	296.6
"/4	8.6	296.3
M	8.6	296.3
"/4	8.2	296.7
crb	8.0	296.9
S	7.6	297.3

4+07.4 = W.L. Park Boulevard 150' wide

S	7.1	297.8
crb	7.4	297.5
"/4	7.4	297.5
M	6.8	298.1
"/4	7.4	297.5
crb	7.2	297.7
N	6.9	298.0

304.89

W. curb.

N	7.1	297.8
crb	7.4	297.5
"4	7.3	297.6
M	7.2	297.7
"4	7.4	297.5
crb	7.4	297.5
S	6.8	298.1

W "4

S	5.7	299.2
crb	5.7	299.2
"4	5.5	299.4
M	5.9	299.0
"4	6.0	298.9
crb	6.4	298.5
N	6.7	298.2

304.89

center

N	5.0	299.9
crb	4.9	300.0
"4	4.9	300.0
M	4.9	300.0
"4	4.7	300.2
crb	4.6	300.3
S	4.6	300.3

E "4

S	4.9	300.0
crb	4.7	300.2
"4	4.9	300.0
M	5.0	299.9
"4	4.9	300.0
crb	4.9	300.0
N	4.7	300.2

		304.89		
		E. crb		
N			4.7	300.2
crb			3.5	301.6
1/4			3.0	301.9
N			3.0	301.9
1/4			4.0	300.9
crb			4.5	300.4
S			4.1	300.8
		E. L. Park Blvd.		
S			1.2	303.7
crb			2.7	302.2
1/4			3.7	301.2
N			3.5	301.4
1/4			3.0	301.9
crb			3.1	301.8
N			3.3	301.6

		304.89		
		0+25 E		
N			2.1	302.8
crb			1.6	303.3
1/4			2.5	302.4
N			2.7	302.2
1/4			2.8	302.1
crb			2.8	302.1
S			2.5	302.4
T.P.	6.77	308.99	2.67	302.22
		0+50		
S			5.7	303.3
crb			6.1	302.9
1/4			4.9	304.1
N			4.8	304.2
1/4			6.1	302.9
crb			4.5	304.5
N			4.5	304.5

	303.99		
	0+75		
N		4.3	304.7
crb		4.9	304.1
"a		5.1	303.9
M		5.3	303.7
"a		4.9	304.1
crb		5.4	303.6
S		4.8	304.2
	1+0		
S		5.1	303.9
crb		5.0	304.0
"a		4.6	304.4
M		4.4	304.6
"a		4.2	304.8
crb		3.8	305.2
N		3.2	305.8

	308.99		
	1+25		
N		3.6	305.4
crb		3.9	305.1
"a		3.7	305.3
M		3.4	305.6
"a		3.8	305.2
crb		4.1	304.9
S		3.8	305.2
	1+50		
S		4.2	304.8
crb		3.8	305.2
"a		3.3	305.7
M		3.2	305.8
"a		4.7	304.3
crb		4.3	304.7
N		3.7	305.3

	308.99		
	1+75		
N		3.7	305.3
crb		4.7	304.3
"/4		5.6	303.4
M		5.6	303.4
"/4		5.5	303.5
crb		5.4	303.6
S		5.2	303.8
	2+0		
S		5.9	303.0
crb		5.9	303.1
"/4		6.0	303.0
M		5.9	303.1
"/4		5.9	303.1
crb		5.8	303.2
N		5.9	303.1

	2+25		
N		6.0	303.0
crb		6.0	303.0
"/4		6.1	302.9
M		6.2	302.8
"/4		6.3	302.7
crb		5.6	303.4
S		5.3	303.7
	2+50		
S		5.8	303.2
crb		6.6	302.4
"/4		6.8	302.2
M		6.8	302.2
"/4		6.2	302.8
crb		5.3	303.7
N		5.7	303.3

308.99

2+75

N	6.9	302.6
crk	6.5	302.5
1/4	6.8	302.2
M	6.9	302.1
1/4	6.9	302.1
crk	7.1	301.9
S	7.1	301.9

2+98.4 = W.L. Indiana st 80'

S	6.9	302.1
crk	7.0	302.0
1/4	6.4	302.6
M	6.0	303.0
1/4	6.5	302.5
crk	6.4	302.6
N	6.3	302.7

W crk

N	6.0	303.0
crk	6.3	302.7
1/4	6.5	302.5
M	6.3	302.7
1/4	6.4	302.6
crk	6.7	302.3
S	6.9	302.1

W 1/4

S	6.4	302.6
crk	6.4	302.6
1/4	5.3	303.7
M	5.2	303.8
1/4	5.9	303.1
crk	5.9	303.1
N	5.8	303.2

308.99

Center

N	5.3	303.7
Crb	5.1	303.9
W	5.0	304.0
M	4.8	304.2
W	5.0	304.0
Crb	5.7	303.3
S	5.4	303.6

E W

S	5.3	303.7
Crb	5.6	303.4
W	5.4	303.6
M	5.2	303.8
W	5.3	303.7
Crb	5.3	303.7
N	5.2	303.8

E curb

N	5.0	304.0
Crb	5.2	303.8
W	5.2	303.8
M	5.4	303.6
W	5.4	303.6
Crb	5.5	303.5
S	5.3	303.7

E. L. Indiana

S	4.5	304.5
Crb	4.6	304.4
W	5.0	304.0
M	5.1	303.9
W	5.0	304.0
Crb	4.9	304.1
N	4.5	304.5

308.99

0+25 E

N	3.8	305.2
crb	3.9	305.1
1/4	4.2	304.8
M	4.0	305.0
1/4	4.0	305.0
crb	3.6	305.4
S	3.5	305.5

0+50

S	2.7	306.3
crb	2.8	306.2
1/4	3.5	305.5
M	3.6	305.4
1/4	3.3	305.7
crb	2.9	306.1
N	2.9	306.1

0+75

N	2.0	307.0
crb	2.4	306.6
1/4	2.9	306.1
M	2.5	306.5
1/4	2.5	306.5
crb	1.7	307.3
S	1.7	307.3

1+0

S	1.1	307.9
crb	1.1	307.9
1/4	1.3	307.7
M	1.6	307.4
1/4	1.4	307.6
crb	1.1	307.9
N	0.8	308.2
T.P.	4.69	312.49	1.20	307.79

312.49

1+25

N	3.3	309.2
Crb	3.2	309.3
1/4	3.4	309.1
M	3.4	309.1
1/4	3.5	308.7
Crb	4.0	308.5
S	3.9	308.6

1+50

S	4.0	308.5
Crb	3.7	308.8
1/4	3.4	309.1
M	3.3	309.2
1/4	3.5	309.0
Crb	3.2	309.3
N	3.4	309.1

1+75

N	4.6	307.9
Crb	4.7	307.8
1/4	4.3	308.2
M	4.2	308.3
1/4	4.3	308.2
Crb	4.8	308.0
S	4.4	308.1

2+0

S	6.5	306.0
Crb	6.4	306.1
1/4	6.4	306.1
M	6.5	306.0
1/4	6.5	306.0
Crb	6.4	306.1
N	6.4	306.1

		312.49		
		2+25		
N			10.8	301.7
crk			10.1	302.4
"a			10.2	302.3
M			10.1	302.4
"a			10.2	302.3
crk			10.1	302.4
S			9.6	302.9
T. P.	1.15	301.12	12.52	299.97
		2+50		
S			1.6	299.5
crk			2.0	299.1
"a			3.0	298.1
M			3.2	298.9
"a			2.0	299.1
crk			1.6	299.5
N			2.9	298.2

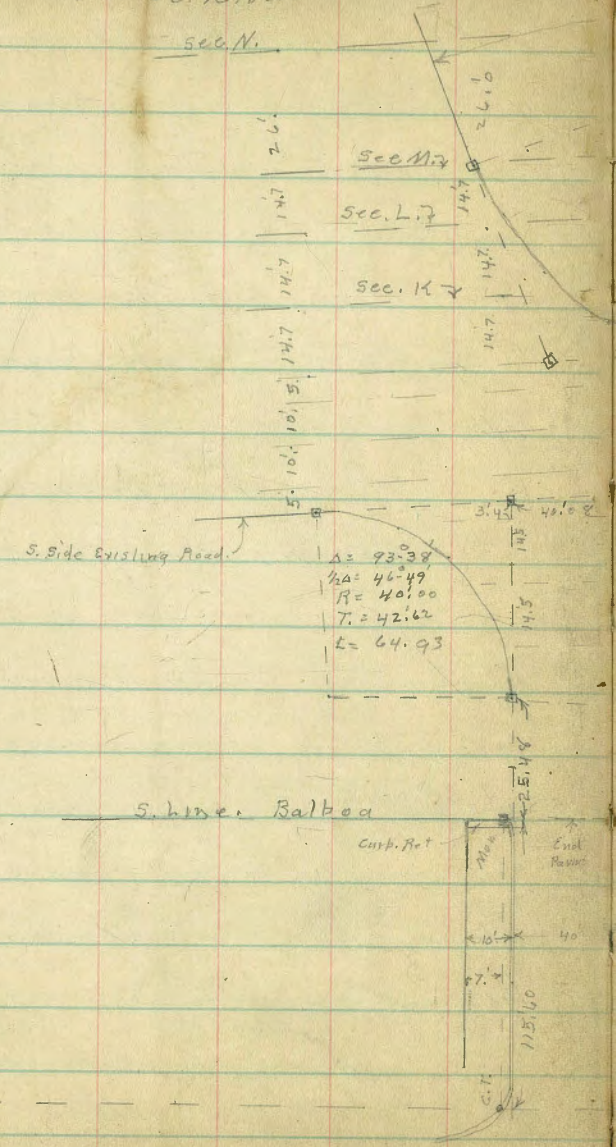
	301.12		
	2+75		
N		6.9	294.2
crk		7.4	293.7
"a		7.7	293.4
M		7.7	293.4
"a		7.1	294.0
crk		5.8	295.3
S		5.6	295.5
	3+0 = W.L. Georgia St		
S		11.3	289.8
crk		10.9	290.2
"a		11.2	289.9
M		12.1	289.0
"a		12.7	288.4
crk		12.9	288.2
N		12.4	288.7

6-2-33
Miller
Walker
Bliss

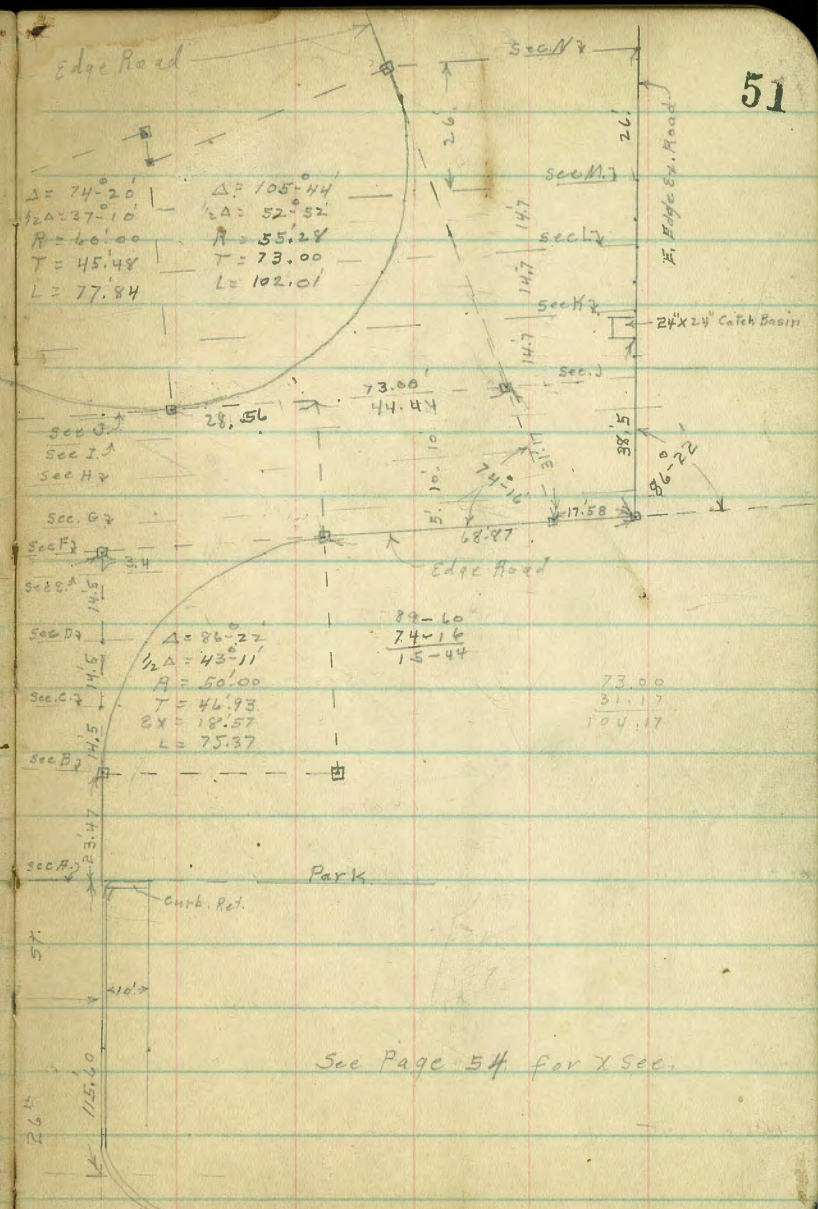
Survey of Intersection 26 St & Russ. Blvd.

Indexed C.S.K.

68.87
46.93
40.08
155.88



A.



57.

x-section for toe of slope, Falcon st from sta 2+75 N of Getti to sta 0+75 N. of Lewis - For grading of E½ of Falcon.

B.M. R.R. SPK	S.E. Lewis & Falcon			262.12	2/19/18 Dunkle Shaw & Evans
B.M.	0.69	262.81			
T.P.	0.63	250.75	12.69	250.12	
T.P.	0.46	239.06	12.15	238.60	
T.P.	2.08	228.95	12.19	226.87	
	2+75 N of Getti st				
W.L. Falcon			+1.9	230.9	
0+10 W of W.L. Falcon			3.0	226.0	
0+15 " " " "			4.6	224.4	
0+2 " " " "			5.8		
	S.L. Lewis st 50' wide				
W.L. Falcon			2.0	227.0	
0+30 W. of W.L. Falcon			14.0	215.0	
0+40 " " " "			11.4		
	S. Curb				
W.L.	"		2.6	226.3	
0+30 " " "	"		16.1	212.9	
0+40 " " "	"		12.1	216.8	

	S ¼		
W.L. Falcon		4.5	224.4
0+27 W. of W.L. Falcon		15.3	213.7
0+40 " " " " "		12.6	216.4
	Center		
W.L. " "		5.7	223.3
0+27 " " " "		16.7	212.3
0+40 " " " "		13.0	216.0
	N ¼		
W.L. "		7.1	221.9
0+26 " " " "		18.0	211.0
0+40		15.2	213.7
	N. Curb		
W.L. "		8.6	220.3
0+24 " " " "		18.9	210.1
0+40 " " " "		16.9	212.1

228.95

N. L. Lewis

W. L. Falloon	10.0	219.0
0+31 W. of W. L. "	20.1	208.9
0+40 " " " "	16.6	212.4

0+25 N of Lewis

W. L. "	7.8	221.2
0+39 " " " "	23.2	205.8
0+50 " " " "	19.1	209.9

0+50 N of Lewis

W. L. "	3.4	225.5
0+20 " " " "	13.6	215.4
0+53 " " " "	25.4	203.6
0+65 " " "	29.2	204.8

0+75

W. L.	1.9	227.1
0+20 " " "	10.3	218.7
0+60 " " "	24.2	204.8

6-2-33 X Sec. 26th St. N. of S. Line Park
See Page 51. for Plat.

B.M. B.P.	12.28	209.20	196.92	S.W. 26th + B. sts
Set B.M. N.W. ⅞ C.T.		4.08	205.12	26th + A. sts.
See A. N. End. curb - walk + Pavmt.				
E. Line		5.8	203.4 ✓	
E. cmt. eb		6.13	203.07 ✓	
gutter.		6.89	202.31 ✓	
+10 = E. ¼		6.31	202.89 ✓	
+20 = ℄		6.04	203.16 ✓	
+30 = W. ¼		6.28	202.92 ✓	
+40 = gutter		6.76	202.44 ✓	
W. cmt. eb		6.14	203.06 ✓	
W. Line		6.0	203.2 ✓	
See B. P.C. to P.C.				
W. Line.		6.9	202.3 ✓	
eb		7.1	202.1 ✓	
+1 = Edge Road.		7.5	201.7 ✓	
+2		7.8	201.4 ✓	
¼		7.0	202.2 ✓	
℄		6.5	202.7 ✓	
¼		6.4	202.6 ✓	

209.20

+3	7.2	202.0	✓
+8 edge road.	7.2	202.0	✓
eb	6.2	203.0	✓
E. Line	5.8	203.4	✓
See C			
E. Line	6.1	203.1	✓
+7.5 New. eb	6.4	202.8	✓
+10 eb Line	6.7	202.5	✓
+2 edge Road	7.4	201.8	✓
+4	7.6	201.6	✓
¼	7.0	202.2	✓
℄	6.8	202.4	✓
¼	7.1	202.1	✓
eb	8.3	200.9	✓
+1. Edge Road.	8.2	201.0	✓
+2	7.5	201.7	✓
W. Line	7.3	201.9	✓

		209.20 see D.			
-5			8.6	200.6	✓
W. Line			8.6	200.6	✓
+2 edge Road.			9.1	200.1	✓
eb.			8.0	201.2	✓
1/4			7.3	201.9	✓
℄			7.1	202.1	✓
1/4			7.2	202.0	✓
+7 edge Road.			8.0	201.2	✓
eb.			7.2	202.0	✓
E. Line New. eb.			6.4	202.8	✓
+5.			6.2	203.0	✓
T.P.	8.15	209.73	7.62	201.58	✓
		See, E.			
-32.6 W			9.6	200.1	✓
21.6 W = ctr 18"x12" catch Basin No 1.			10.6	199.1	✓ on grating
" " " " " "			12.3	197.4	✓ F.L.
16' W			10.6	199.1	✓
W. Line			9.2	200.5	✓
eb.			8.7	201.0	✓

		209.73			26th St. & Russ Blvd.
1/4			8.3	201.4	✓
℄			8.0	201.7	✓
1/4			8.0	201.7	✓
+7			8.4	201.3	✓
eb			9.0	200.7	✓
+2 = ctr 12"x18" catch Basin No 2			9.0	200.7	on grating ✓
" " " " "			10.9	198.8	F.L. ✓
E. Line			7.6	202.1	✓
36.9 E			5.6	204.1	✓
50' E			5.2	204.5	✓
75' E			4.2	205.5	✓
105.8 E			2.8	206.9	✓
		See F			
105.8 E. on stup			3.03	206.70	✓
75' E			4.7	205.0	✓
50' E			5.8	203.9	✓
36.9 at P.C.			4.6	203.1	✓
E. Line Produced			8.4	201.3	✓
eb.			8.1	201.6	✓

	209.73			
	See. F. Con			
E. ¼		8.0	201.7	✓
℄		8.1	201.6	✓
¼		8.5	201.2	✓
eb		8.8	200.9	✓
W.		9.0	200.7	✓
+ 20' W		10.3	199.4	✓
32.6' W. at P.B.		10.2	199.5	✓
	See G			
32.6' W.		9.6	200.1	✓
20' W		9.6	200.1	✓
W. Line		9.1	200.6	✓
eb		9.0	200.7	✓
¼		8.7	201.0	✓
℄		8.5	201.2	✓
¼		8.1	201.6	✓
eb		7.8	201.9	✓
E. Line		7.8	201.9	✓
36.9' E.		4.2	203.5	✓

	209.73			26th St + Russ Blvd
50' E		5.6	204.1	✓
75' E.		4.8	204.9	✓
105.9' E.		3.2	206.5	✓
	See H.			
105.9' E.		2.7	207.0	✓
75' E		4.2	205.5	✓
50' E		5.0	204.7	✓
36.9' E		5.9	203.8	✓
E. Line		7.8	201.9	✓
eb		8.2	201.5	✓
¼		8.7	201.0	✓
℄		9.1	200.6	✓
¼		9.3	200.4	✓
eb		9.6	200.1	✓
W. Line		9.5	200.2	✓
+ 20' W		9.5	200.2	✓
+ 32.6' W.		9.4	200.3	✓
+ 80' W		8.2	201.5	✓ In Road.
+ 130' W		5.7	204.0	✓ In Road.

	209.73	Sec. I		
41.' W = edge Road.		11.5	198.2	✓
32.'6 W.		11.7	198.0	✓
20.' W		11.0	198.7	✓
W. Line		10.4	199.3	✓
cb.		10.4	199.3	✓
1/4		10.3	199.4	✓
℄		10.7	199.0	✓
1/4		10.3	199.4	✓
cb		9.4	200.3	✓
E. Line		8.7	201.0	✓
36.'9 E.		6.4	203.3	✓
50.' E		5.3	204.4	✓
75.' E		3.6	206.1	✓
105.'8 E		2.4	207.3	✓
	Sec. J.			
105.'8 E		2.2	207.5	✓
75.' E		3.4	206.3	✓
50.' E		5.5	204.2	✓
36.'9 E.		6.5	203.2	✓

	209.73			26th + Russ Blvd.
4.'9 E. at P.C.C.		8.6	201.1	✓
E. Line		9.1	200.6	✓
cb.		9.4	200.3	✓
1/4.		10.2	199.5	✓
℄		11.2	198.5	✓
1/4		11.0	198.7	✓
cb		10.8	198.9	✓
W. Line		10.8	198.9	✓
20.' W		11.7	198.0	✓
32.'6 W.		12.4	197.3	✓
35.' W. = Edge Road.		12.2	197.5	✓
	3.'5 N. of Sec. J			
	ctr. 28"x28" No. 3.			on grating
3.'6 W. of ℄ = catch Basin		11.7	198.0	✓ N+S. on Diagonal
" " " " "		14.5	195.2	✓ F.L.
	9.' N. of Sec J			
	ctr 24"x24" No. 4			on grating
24.'7 W. of W Line catch Basin		13.1	196.6	✓ N+S. on Diagonal
" " " " " "		15.1	194.6	✓ F.L
T.P.	4.96	211.66	3.03	206.70
	9.' N. of Sec J.			
	27"x27"			on grating
104.'3 E. = ctr catch Basin	No. 5	5.1	206.6	✓ set N+S.
" " " "		7.6	204.1	✓ F.L.

211.66

9' N of Sec. J.

61.5 E.	27"x27" catch Basin No. 6.	6.8	204.9	✓ on grating
"	" "	8.9	202.8	✓ N.S. on Diag. F.L.

Sec. K.

24' W of W. Line = edge Road	16.0	195.7	✓
10' " " " "	14.5	197.2	✓
W. Line	14.5	197.2	✓
cb.	14.4	197.3	✓
+5	14.9	196.8	✓
1/4	14.4	197.3	✓
+5	14.0	197.7	✓
℄	13.6	198.1	✓
1/4	12.7	199.0	✓
cb	12.0	199.7	✓
E Line	11.0	200.7	✓
36.9 E	8.0	203.7	✓
42' E	7.8	203.9	✓
50' E.	7.4	204.3	✓
68' E	6.3	205.4	✓
75' E	5.4	206.3	✓

211.66 26th + Russ Blvd.

58

100' E	4.2	206.5	✓
103' E	5.2	206.5	✓
105.8 E	4.9	206.8	✓

Sec L.

105.8 E	4.5	207.2	✓
100' E	3.9	207.8	✓
85' E	4.5	207.2	✓
75' E	5.4	206.3	✓
72' E	5.8	205.9	✓
67' E	5.2	206.5	✓
60' E	6.7	205.0	✓
51.7 E	7.1	204.6	✓
36.9 E	7.5	204.2	✓
10' E	8.4	203.3	✓
E. Line	11.2	200.5	✓
cb	12.8	198.9	✓
1/4	13.9	197.8	✓
℄	14.7	197.0	✓

211.66

See. L (con)

W. l.w	15.3	196.4	✓
+ 8 edge Road	15.4	196.3	✓
el	16.0	195.7	✓
W. Line	15.9	195.8	✓
15' W.	16.1	195.6	✓
20' W. = W. edge Road.	16.6	195.1	✓
See. M.			
22' W. = W. edge Road	18.3	193.4	✓
18' W	17.8	193.9	✓
10' W	17.5	194.2	✓
W. Line	17.4	194.3	✓
+ 3'	17.8	193.9	✓
+ 4.4 E. edge Road.	17.0	194.7	✓ at P.C.
W. el.	16.8	194.9	✓
W. l.w	16.6	195.1	✓
36.9 E. of E. Line	7.0	204.7	✓
50' " " " "	6.4	205.3	✓
56' " " " " = W. edge Road	6.0	205.7	✓

211.66

26th + Russ. Blvd

63' E	4.5	207.2	✓
75' E	4.8	206.9	✓
85' E	4.2	207.5	✓
100' E	3.4	208.3	✓
105.8 E E. edge Road.	3.9	207.8	✓
See N.			
105.8 E = E. edge Road	3.3	208.4	✓
100' E	2.9	208.8	✓
85' E	3.6	208.1	✓
75' E	3.6	208.1	✓
53.3 E = W edge Road at P.C.	3.4	208.3	✓
47' E	5.3	206.4	✓
36.9 E	5.8	205.9	✓
50' N. of 75' E. on Sec. N.			
75' E. of E. Line 26 in Road.	1.7	210.0	✓
100' N. of 75' E. on Sec. N.			
75' E. of E. Line 26 in Road.	0.0	211.7	✓

211.66

Sec N. Con.

29' W. of W. Line S.W. edge Road	20.0	191.7	✓
17' " " " "	19.5	192.2	✓
10' " " " "	19.5	192.2	✓
5' " " " " E. edge Road.	19.8	191.9	✓
4' " " "	19.0	192.7	✓
W. Line 26th	19.0	192.7	✓
W. el.	19.2	192.5	✓
50' N. of 17' W. of W. Line on Sec N.			
on ℄ Road.	22.7	189.0	✓
100' N. of 17' W. of W. Line on Sec. N.			
on ℄ Road.	25.8	185.9	✓
T.P. 6.27 209.36	8.57	203.09	✓
chk orig. BM.	12.42	196.94 = 196.92	
10" cmt. pipe connecting catch Basins		No. 5 to 6	✓
12" " " " " "		No. 2 to 3	✓
10" " " " " "		No. 6 to 3	✓
16" " " from " "		No. 3 N.W. 61' to outlet 22' N. of catch Basin No. 4.	✓
12" " " " " "		No. 4 North 22.0 to " 62' NW " " " No. 3	✓

12" cmt. Pipe connecting Catch Basin No. 1, to No. 4. ✓

B.M. 205.12
0.66
205.78

H. Line el. stakes

		E. gutter H Line	℄ G	H Line change	el.
0+00 S. Line Park		202.30 3.48	203.16 2.62	202.30	203.05
0+23.4 PC		201.40 4.38 3.8	202.65 3.13 3.1	201.93	202.68 3.10 2.60 +0.50
	10.6				
0+40		+34. 200.90 4.88 4.1	202.25 3.53 3.5	201.77	202.52 3.26 ✓
	6				
0+50 Sec G		+40. 200.80 4.98 4.1 1.6	201.95 3.83 3.7	201.68	202.43 3.35 2.85 +0.50
	12				
0+68.5 Sec H		+52. 201.10 4.68 4.1	201.90 3.88 4.2 1.5	201.50 4.28	202.25 3.53 2.53 +1.00
catch Basin	11.5				
0+80 Sec I.		+63.5 201.50 4.28 4.1	202.10 3.68 4.0 1.9	201.60	202.40 3.38
	18.5				
1+00 Sec J.		+79 202.50 3.28 3.5 2.2	202.75 3.03 3.4	202.20	202.80 2.98
	8.4				
1+11		+87.4 203.20 2.58 3.5 2.3	203.15 2.63 2.9	202.60	203.20 2.58
0+99 PC "H"				203.26	203.86 1.92 ✓
1+16 H. End curb.				204.16	204.76 1.02
1+40 G 17.24 H				204.60	205.10

	H	G	Change H
1+67.7	206.85	205.1	206.85

"E" Line Curb stakes

	Ground el.	Gutter		el. Grade	gutter
0+00 PC	9.1	9.9	205.78		
	194.7	193.9	7.54	194.70	194.0
			198.24	9.12	
			5.58		
		1.3	203.82		
			0.49		
			203.33		
0+12.97	7.8	8.6	10.88	195.85	195.15
	96.0	195.2	214.21	7.97	
		1.2			
0+25.94	6.9	7.4		197.00	196.30
		196.4		6.82	
		1.2			
0+38.92	5.7	6.2		198.15	197.45
		197.6		5.67	
		1.3			
0+51.89	4.4	4.9		199.30	198.60
		198.9		4.52	
		1.0			
0+64.86	3.4	3.9		200.45	199.75
		199.9		3.37	
		0.9			
0+77.84 P.C.C.	2.7	3.0		201.60	200.90
		200.8		2.22	
		1.7			
0+94.84	1.3	1.3		202.75	202.05
		202.5		1.07	
		1.1			
1+11.84	0.2	0.2	214.21	203.90	203.20
		203.6		10.31	
		0.9			

	Ground	Gutter	el. Grade	gutter Grade
		214.21		
1+28.84		9.7	205.05	204.35
		204.5	9.16	
			9.66	
			-0.50	
		1.1		
1+45.84		8.6	206.20	205.50
		205.6	8.01	
			8.51	
			-0.50	
		1.2		
1+62.84		7.4	207.35	206.65
		206.8	6.86	
			7.36	
			-0.50	
		1.1		
1+79.84 E.C.	6.0	6.3	208.50	207.80
		607.9	5.71	
			6.21	
			-0.50	

Curb stakes A Line

	el ground	gutter	el Grade	gutter grade
0+00. S. Line Park		6.00 202.43 0.7	203.06 5.37	202.44 6.00
0+20.15 P.C. 12.2	6.0	6.7 201.7 0.6	202.26 6.17 5.67 +0.50	201.56
1 0+32 4 "	6.6	7.3 201.1 0.7	201.72 6.71	201.02
2 0+44 6 "	7.3	8.0 200.4 0.7	201.18 7.25	200.48
3 0+56 8 "	8.1	8.7 199.7 0.5	200.64 7.79	199.94
4 0+69 7.7	8.7	9.2 199.2 0.1	200.10 8.33	199.40
5 0+76 7 Catch Basin 4.5		9.30 199.13 +0.2	199.83	199.13
5 0+81 2 12.2	8.3	9.1 +0.6	200.00 8.43	199.30
6 0+93 4 E.C. 36.5	8.0	8.7 199.7 3(1.6 .52	200.50 7.93	199.80
1+30	6.4	7.1 201.3		

3.31
205.12
208.43

#400

Stake Fire Hydrant
location at inters.
of Fairmount & Home
avenues for Evans,
Water Dept, Thursday.

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.		