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

400

LEVEL

F.B. 451

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City Hall, San Diego, Cal.

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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	135½
19	44⅓	39	91	59	137⅔
20	46⅔	40	93⅓	60	140

451
MICROFILMED
OCT 1964

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

Crocker Quality

LEVEL BOOK

No. 400

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Brass plg.
283.90

Levels on Point Loma
From Landscape & Hemetite

B.M.	10.45	32.17		21.72
T.P.	11.66	43.64	0.19	31.98
0+00				
E			4.6	39.0
C			3.4	40.2
W			2.6	41.0
0+50				
W			0.9	42.7
C			2.3	41.3
E			3.7	39.9
T.P.	9.72	49.93	3.43	40.21
1+00				
E			9.8	40.1
C			8.8	41.1
W			7.4	42.5

Blvd Readings ℄ & 20' each side
to Wireless Station

1+50		H.I. 49.93		
W			7.5	42.4
C			8.9	41.0
E			10.2	39.7
		2+00		
E			10.8	39.1
C			9.7	40.2
W			8.4	41.5
		2+50		
W			4.4	45.5
C			9.2	40.7
E			11.5	38.4
		3+00		
E			7.2	42.7
C			2.2	47.7
T.P.	12.51	60.84	1.60	48.33
W		3+00	7.5	53.3

		H.I		
3+60.5		60.84		
W			1.4	59.4
C			4.1	56.7
E			7.5	53.3
		4+00		
E			3.8	57.0
C			1.7	59.1
T.P	11.33	71.20	0.97	59.87
		4+00		
W LINE			9.3	61.9
		4+50		
W			6.9	64.3
C			10.1	61.1
E			13.0	58.2
		5+00		
E			9.5	61.7
C			6.3	64.9
W			2.6	68.6

		H.I.		
5+50		71.20		
E			5.9	65.3
C			1.7	69.5
T.P	12.79	83.56	0.48	70.77
5+50				
W LINE			9.2	74.4
		6+00		
W			3.8	79.8
C			8.2	75.4
E			13.2	70.4
		6+50		
E			10.4	73.1
C			6.2	77.4
W			1.8	81.8
		7+00		
W			8.2	75.4
C			12.2	71.4
E			14.6	69.0

		H.I. 83.56		
T.P.	12.76	94.72	1.60	81.96
7+50				
E			8.6	86.1
C			4.3	90.4
W			0.0	94.7
		8+00		
E. LINE			1.0	93.7
T.P.	12.26	H.I. 106.25	0.73	93.99
C			8.2	98.1
W.			4.2	102.1
		8+50		
C			0.8	105.5
E			5.0	101.3
T.P.	14.39	116.68	0.96	105.29
W.			6.2	110.5
		9+00		
W.			1.2	115.5

		HI 116.68		
C		9+00	5.7	111.0
E			10.0	106.7
		9+22.5		
E			9.3	107.4
C			4.4	112.3
W			0.2	116
		9+50		
W			3.6	113.1
C			7.9	108.8
E			13.3	103.4
		10+00		
E			18.2	98.5
C			15.9	100.8
W			13.5	103.2
		10+50		
C			1.4	115.3
E			5.1	111.6

		H.I. 116.68		
T.P.	11.96	128.29	0.35	116.33
		10+50		
W.			9.1	119.2
		11+00		
W.			1.4	126.9
C			6.7	121.6
E			12.1	116.2
		11+11.7		
E			8.4	119.9
C			2.2	126.1
W			+4.0	132.3
		11+50		
E			5.0	123.3
C		H.I. 140.91	13.7	127.2
W		140.91	10.3	130.6
E		H.I. 128.29 12+00	16.2	112.1
C			13.3	115.0
W			10.5	117.8

		H.I. 128.29		119.79 B.M.
		H.I.	8.50.	119.79 ck.
T.P.	12.75	140.91	0.13	128.16
		12+50		
W.			4.0	136.9
C			8.2	132.7
E			13.7	127.2
B.M.	12.96	132.75		119.79
		13+00		
E			0.9	131.9
T.P.	12.32	143.99	0.88	131.67
		13+00		
C			6.2	137.8
W			1.2	142.8
	X	13+50		
W			2.8	141.2
C			6.9	137.1
E			12.2	131.8

14+00		H.I 143.99		
E			11.6	132.4
C			6.7	137.3
W			2.7	141.3
		14+50		
E			6.6	137.4
C			2.2	141.8
T.P.	12.09	154.85	1.23	142.76
		14+50		
W			9.0	145.9
		15+00		
W			4.8	150.1
C			8.9	146.0
E			14.0	140.9
		15+50		
E			12.5	142.4
C			9.7	145.2
W			6.0	148.9

16+00		H.I 154.85		
W			2.0	152.9
C			6.3	148.6
E			10.6	144.3
		16+50		
E			7.6	147.3
C			2.8	152.1
T.P.	12.78	167.12	0.51	154.34
		16+50		
W			10.6	156.5
		17+00		
W			7.4	159.7
C			10.1	157.0
E			14.6	152.5
		17+50		
E			8.5	158.6
C			5.1	162.0
W			2.1	165.0

		H.I.		
18+00		167.12		
E			5.4	161.7
C			0.0	167.1
T.P.	10.90	177.54	0.48	166.64
		18+00		
W			7.4	170.1
		18+28.1		
W			6.9	170.6
C			10.2	167.3
E			13.9	163.6
		19+00		
E			11.0	166.5
C			6.1	171.4
W			1.1	176.4
		19+50		
W			+3.0	180.5
C			1.6	175.9
E			5.4	172.1
T.P.	10.53	187.20	0.87	176.67
		19+75		
W			5.6	181.6
C			9.2	178.0
E			13.5	173.7

		H.I.			
20+00		187.20			
E			14.2	173.0	
C			11.6	175.6	
W			8.8	178.4	
		20+25			
W			10.4	176.8	
C			12.8	174.4	
E			14.2	173.0	
		21+00			
E			7.0	180.2	
C			5.3	181.9	
W			2.7	184.5	
		21+39			
E			1.2	186.0	
T.P.	11.87	198.27	0.80	186.40	
		21+89		188.07	B.M.
C			10.40	187.87	
W			7.8	190.5	
		21+75			
W			1.3	197.0	
C			1.7	196.6	
E			3.7	194.6	

		H.I		
21+95		198.27		
E			6.6	191.7
C			3.6	194.7
W			2.6	195.7
		22+0		
W			5.2	193.1
C			7.5	190.8
E			9.9	188.4
		22+25		
E			3.0	195.3
C			0.9	197.4
W			0.0	198.3
T.P.	11.10	209.03	0.3+	197.93
		22+50		
W			9.1	1999
C			10.3	1987
E			13.0	196.0

		H.I		
23+00		209.03		
E			7.9	201.1
C			7.3	201.7
W			6.6	202.4
T.P.	11.74	219.39	1.38	207.65
		23+50		
W			8.0	211.4
C			9.7	209.7
E			8.8	210.6
		23+75		
E			1.3	218.1
C			1.6	217.8
W			0.0	219.4
		24+00		
E			0.5	218.9
T.P.	12.52	231.42	0.49	218.90
		24+00		
C			10.5	220.9
W			7.1	224.3

		H.I		
24+50		231.42		
W			2.2	229.2
C			6.9	224.5
E			11.7	219.7
		25+00 A		
E			4.5	226.9
T.P	7.29	238.53	0.18	231.24
		25+00		
C			6.2	232.3
W			0.7	237.8
		25+50		
W			5.3	233.2
C			9.6	228.9
E			15.0	223.5
		26+0		
E			23.0	215.5
C			17.9	220.6
W			14.7	223.8

		H.I		
26+50		238.53		
W			5.8	232.7
C			7.0	231.5
E			16.0	222.5
		26+70		
E			22.0	216.5
C			17.0	221.5
W			11.6	226.9
		27+00		
W			2.9	235.6
C			8.0	230.5
E			14.2	224.3
		27+50		
E			0.0	238.5
T.P	11.81	250.03	0.31	238.22
C			8.9	241.1
W			42	245.8

		H.I. 250.03		
		27+75		
W			0.5	249.5
C			3.7	246.3
E			1.7	248.3
		28+00		
E			0.0	250.0
T.P.	6.54	256.42	0.15	249.88
C			4.2	252.2
W			2.0	254.4
		29+00		
W			5.8	250.6
C			7.6	248.8
E			9.8	246.6
		30+00		
E			12.5	243.9
C			10.8	245.6
W			8.8	247.6

		H.I. 256.42		
		31+00		
W			9.8	246.6
C			11.6	244.8
E			13.5	242.9
		32+00		
E			12.2	244.2
C			9.2	247.2
W			6.3	250.1
		33+00		
W			1.0	252.4
C			3.1	252.3
E			5.1	251.3
T.P.	10.54	266.10	0.86	255.56
		34+00		
W			2.7	263.4
C			4.6	261.5
E			7.7	258.4

		HI		
		266.10		
		35+00		
E			3.3	262.8
C			1.2	264.9
W			00	266.1
T.P.	12.18	277.49	0.79	265.31
		36+00		
W.			4.5	273.0
C			6.6	270.9
E			8.1	269.4
		37+00		
E			1.7	275.8
T.P.	12.06	287.52	2.03	275.46
C			9.3	278.2
W			6.3	281.2
		38+00		
W			2.4	285.1
C			3.7	283.8
E			5.9	281.6

		HI		
		287.52		
		38+50		
E			4.8	282.7
C			1.5	286.0
W			00	287.5
T.P.	10.85	297.60	0.77	286.75
		39+00		
W.			7.7	289.9
C			9.3	288.3
E			13.5	284.1
		39+50		
E			11.6	286.0
C			7.8	289.8
W			6.4	291.2
		40+00		
W			6.0	291.6
C			8.2	289.4
E			10.6	287.0

		H.I. 297.60		
		40+61.3		
W.			5.2	292.4
C			6.0	291.6
E			8.5	289.1
		41+00		
W			3.7	293.9
C			5.2	292.4
E			7.1	290.5
		42+00		
E			2.8	294.8
T.P.	12.67	308.32	1.95	295.65
C			11.8	296.5
W			9.0	299.3
		43+04.1		
W			5.5	302.8
C			8.4	299.9
E			12.0	296.3

		H.I. 308.32		
		43+80		
E			11.3	297.0
C			8.8	299.5
W			5.8	302.5
		44+00		
W			0.0	308.3
C			1.3	307.0
E			3.6	304.7
T.P.	12.76	320.32	0.76	307.56
		44+50		
E			10.0	310.3
C			8.7	311.6
W.			7.3	313.0
		45+00		
W			4.6	315.7
C			5.2	315.1
E			6.2	314.1

		H.I 320.32		
T.P.	12.77	331.28	1.81	318.51
		46+00		
W.			10.6	320.7
C			11.3	320.0
E			12.6	318.7
		46+49.65		
E			10.0	321.3
C.			8.9	322.4
W.			7.3	324.0
		47+00		
W.			5.2	326.1
C			6.2	325.1
E			6.6	324.7
T.P.	11.56	340.07	2.77	328.51
		48+00		
E			11.0	329.1
C			10.1	330.0
W			8.9	331.2

		HI 340.07		
		49+00		
W.			4.4	335.6
C			5.7	334.4
E			6.7	333.4
		49+73.1		
W.			1.3	338.8
C			2.9	337.2
E			4.0	336.1
T.P.	1.08	348.91	2.24	337.83
T.P.	2.44	350.17	1.18	347.73
				343.11 = BM
			7.10	343.07

Hospital Grade Center Readings X sections

				6th & Univ. Ave.		6+50		248.81	4.0	244.8
	0.72	284.62		283.90 BM		6+65.5	Sline Heishers addn.		4.9	243.9
0+00 = Prop line Univ. Ave.			2.6	282.0		7			6.7	242.1
0+50			4.2	280.4		+50			9.1	239.7
1+00			6.1	278.5		8+00			10.8	238.0
1+50			9.1	275.5		T.P.	0.75	238.99	10.57	238.24
2+00			13.0	271.6		8+50			3.2	235.8
T.P.	0.19	272.23	12.58	272.04		9			5.5	233.5
2+50			5.0	267.2		+50			6.9	232.1
3+00			8.9	263.3		opp 5 to 23+28.7 10+00			8.4	230.6
3+50			11.9	260.3	X	+50	X		9.1	229.9
T.P.	0.74	260.87	12.10	260.13		11+00			9.7	229.3
4+00			3.1	257.8		11+50			10.3	228.7
4+50			5.5	255.4		12+00			10.9	228.1
5+00			7.7	253.2		+50			11.6	226.4
+50			10.2	250.7		13+0			13.0	225.0
T.P.	0.56	248.81	12.62	248.25		T.P.	0.64	226.94	12.69	226.30
6			16	247.2		+50			3.0	223.9

14.0+		226.94	4.8	221.1
+50			7.0	219.9
15+00			8.7	218.2
B.M. stk in pole opp. Sta 16+00			7.53	219.41
+50			10.9	216.0
T.P.	0.12	215.78	11.28	215.66
16			2.8	213.0
+50			5.3	210.5
17			8.0	207.8
+50		X	10.9	204.9
18+00			13.3	202.5
T.P.	0.23	203.59	12.42	203.36
+50			3.4	200.2
19+00 Sta 15+40.1			6.0	197.6
+50			8.2	195.4
20+00			11.00	192.6
T.P.	0.21	190.92	12.88	190.71

20+50		190.92	1.0	189.9
21+00 Sta 13+96.1			3.4	187.5
21+50			6.2	184.7
22+00 Sta 13+76.1			8.5	182.4
Stk in pole opp 23+50 B.M.			7.73	183.19
22+50			11.4	179.5
T.P.	0.18	180.76	10.84	180.08
23+00			3.7	177.1
23+50		X	5.5	174.8
24+00 10+50.3			6.3	174.0
+50			6.4	173.9
25+00			7.6	172.7
25+50			9.4	170.9
26+00			11.9	168.4
T.P.	0.31	168.52	12.05	168.21
26+50			3.2	165.3
27			5.7	162.8
27+50			7.2	161.3

28+00		168.57	9.7	158.8	
+50			13.00	155.5	
T.P.	0.42	156.48	12.46	156.06	
29+00			4.3.8	152.7	
+50			6.5	150.0	
30+00			8.8	147.7	
+50			10.5	146.0	
T.P.	0.11	144.20	12.39	144.09	
31+00			11	143.1	
+50		X	3.9	140.3	
32+00			6.8	137.4	
+50			9.8	134.4	
33			11.9	132.3	
T.P.	0.03	131.52	12.71	131.49	
+50			1.5	130.0	
34			4.3	127.2	
+65.0 = N line Fleishers = 0+00 of line to poor farm			6.8	124.7	

		131.52			
35+65 = 0+00			6.8	124.7	
+50			9.9	121.6	
1+00			12.80	118.7	Hub at sta 1+00
T.P=B.M.	0.40	119.15	12.77	118.75	
+50			2.7	116.4	
2+00			5.3	113.8	edge road.
+40			17.8	101.3	
+50		X	18.3	100.8	
T.P	.52	107.73	12.74	106.41	
3+00			10.7	97.7	
+40			10.6	97.3	
+75			4.1	103.8	
4+00			4.5	103.4	
+50			6.4	101.5	
5			10.0	97.9	
+50			11.6	96.3	
T.P.	.54	96.81	11.66	96.27	

6+00		96.81	4.2	92.6
+50			6.7	90.1
7+00			9.4	87.4
7+50			12.8	84.0
T.P.	1.31	85.78	12.34	84.47
8+00			3.5	82.3
8+50			4.7	81.1
9+00			9.9	75.9
+50			14.2	71.6
T.P.	1.35	74.54	12.59	73.19
10			3.3	71.2
+50			5.4	69.1
11			7.8	66.7
+50			10.5	64.0
12			12.60	61.9
T.P.	0.60	62.56	12.58	61.96
+50			2.5	60.0
+60 = 21+93.2				
13			4.6	58.0

13+50		62.56	5.9	56.7
14+00			7.0	55.6
+50			7.9	54.7
15+00			9.2	53.4
+25 D			10.0	52.6
+50			10.4	52.2
16+00			12.2	50.4
+30 = 19+34.7				
+50			13.7	48.9
T.P.	0.69	50.99	12.76	50.30
17+00			3.5	47.5
+50			5.0	45.0
18+00			6.6	44.4
+50			7.8	43.2
19+00			9.4	41.6
19+03 = 0+00 Escondido Blvd.			10.0	41.0
B.M. Spk in post opposite Sta 19+00			5.70	45.29

Cut off from 5+0 22+75 to 5+0

	1.16	184.35		183.19	BM
22+75 = 0+00			0.9	183.4	
0+10			2.4	181.9	
0+33			11.3	173.0	
T.P.	2.41	174.11	12.65	171.70	
0+57			12.6	161.5	
T.P.	2.86	164.61	12.35	161.76	
0+65			9.0	155 6	
0+94			16.3	148 3	bottom
		X			
1+14			12.9	151.7	
1+22			10.2	154.4	
1+42			2.6	162.0	
T.P.	10.94	174.32	1.23	163.38	
1+60			4.0	170.3	
2+02			6.0	168.3	

Levels on "A" Line, Ft Loma Blvd – Hamilton St

Readings ℄ & 20' each side

	10.12	129.91		119.79	B.M.
		0+00			
W					
C			2.5	127.4	
E					
		0+50			
W.			11.3	118.6	
C.			14.7	115.2	
E			18.0	111.9	
T.P.	12.96	141.95	0.92	128.99	
		1+00			
E.			10.9	131.0	
C.			7.1	134.8	
W.			3.6	138.3	
		1+50			
E.			5.4	136.5	
T.P.	12.07	153.55	0.47	141.48	
C.			11.5	142.0	
W.			6.9	146.6	

		2+00		
W.		153.55	6.5	147.0
C.			12.1	141.4
E			16.3	137.2
		2+50		
E.			15.0	138.5
C.			11.2	142.3
W.			7.0	146.5
		3+00		
W			1.2	152.3
C			4.3	149.2
E			7.9	145.6
		3+50		
E			5.1	148.4
T.P.	12.69	165.11	1.13	152.42
C.			12.2	152.9
W.			8.3	156.8

4+00				
	165.11			
W		4.3	160.8	
C.		9.3	155.8	
E		14	151.1	
4+20				
E		10.4	154.7	
C.		7.3	157.8	
W.		4.2	160.9	
4+50				
W		5.0	160.1	
C.		8.2	156.9	
E.		11.8	153.3	
5+00				
E		7.7	157.4	
C.		4.2	160.9	
W.		0.6	164.5	
T.P.	12.00	176.99	0.12	164.99

5+30				
W		17699	8.4	168.6
C.			11.9	165.1
E			15.3	161.7
6+00				
E			10.1	166.9
C.			7.6	169.4
W.			4.3	172.7
6+30				
E			4.4	172.6
C.			1.4	175.6
T.P.	12.28	188.70	0.54	176.42
W.			10.5	178.2
7+00				
W			5.3	183.4
C.			8.5	180.2
E			13.1	175.6

	7+50		
E.	188.70	7.3	181.4
C.		4.6	184.1
W.		1.4	187.3
	8+00		
W		0.0	188.7
C.		2.3	186.4
E.		4.4	184.3
	8+50		
E		10.1	178.6
C.		5.8	182.9
W.		3.3	185.4
	8+75		
W.		6.0	182.7
C.		8.3	180.4
E.		8.3	180.4

		9+00		
E		188.70	7.0	181.7
C.			4.3	184.4
W.			1.3	187.4
T.P	12.38	200.86	0.22	188.48
		9+50		
W.			4.6	196.2
C.			8.3	192.5
E			12.4	188.4
		10+00		
W.			-3.6	204.5
C.			2.2	198.7
E.			4.3	196.5
		10+25		
E			8.7	192.1
C.			6.5	194.3
W.			6.5	194.3

	10+50			
E		200.86	2.7	198.1
C			1.5	199.3
T.P.	12.02	212.03	0.85	209.01
W.			9.4	202.6
	11+00			
W.			7.4	204.6
C.			10.8	201.2
E.			13.0	199.0
	11+50			
E			7.3	204.7
C.			4.3	207.7
W.			0.9	211.1
T.P	11.83	223.49	0.37	211.66
	12+00			
W.			0.6	222.9
C.			4.3	219.2
E.			5.3	218.2

	12+50			
E		223.49	2.7	220.8
T.P	12.71	235.29	0.41	223.08
C.			10.9	224.4
W.			5.8	229.5
	13+00			
W.			-1.1	236.4
C.			4.5	230.8
E.			10.8	224.5
	13+23.5 = STA 25+00.			
C.			2.8	232.5

Levels on Pt Loma Blvd. 60' Wide

				B.M. NW Cr. Bacon & Long Branch.
	2.01	7.79		5.78
	4.35	6.61	5.53	2.26
S. Line Long Branch on Abbott St.				
E			41	2.5
ch.			40	2.6
4' W.			39	2.7
½			26	4.0
c			24	4.2
¼			27	3.9
4' W.			41	2.5
ch.			43	2.3
W.			43	2.3
N Line Long Branch				
W			44	2.2
ch.			44	2.2
¼			46	2.0
c			43	2.3
¼			43	2.3
ch.			42	2.4
E			43	2.3

POSTED

0+00 = N. Line Ocean Beach Extn

			B.M.
	6.61	4.0	2.6
ch.		3.9	2.7
¼		4.3	2.3
c		4.1	2.5
¼		4.6	2.0
ch.		4.6	2.0
W.		4.6	2.0
0+50			
W.		4.7	1.9
ch.		4.6	2.0
¼		4.6	2.0
c		4.3	2.3
¼		4.8	1.8
ch.		4.5	2.1
E		4.4	2.2

POSTED

1400

~~H.1~~ 6.61

E.	4.7	1.9
cl.	4.8	1.8
1/4	5.0	1.6
cl.	4.6	2.0
1/4	5.0	1.6
cl.	4.9	1.7
W.	4.8	1.8

1450

W.	5.0	1.6
cl.	4.9	1.7
1/4	5.0	1.6
C	4.7	1.9
1/4	5.1	1.5
cl.	5.0	1.6
E	4.8	1.8

1400

~~H.1~~ 6.61

E	4.5	2.1
cl.	4.6	2.0
1/4	5.0	1.6
C	4.5	2.1
1/4	5.2	1.4
cl.	4.7	1.9
W.	4.8	1.8

1450

W.	5.3	1.3
cl.	5.2	1.4
1/4	5.3	1.3
C	4.8	1.8
1/4	5.4	1.2
cl.	4.8	1.8
E	4.7	1.9

	3+00			
		H.1		
E.		6.6.1	4.8	1.8
ch.			5.0	1.6
1/4			5.2	1.4
c			4.8	1.8
1/4			5.3	1.3
ch.			5.2	1.4
W.			5.3	1.3
	3+50			
W.			5.0	1.6
ch.			5.0	1.6
1/4			5.1	1.5
c			4.8	1.8
1/4			5.0	1.6
ch.			4.8	1.8
E			4.8	1.8

	4+00			
		H.1		
E.		6.6.1	4.7	1.9
ch.			4.9	1.7
1/4			4.9	1.7
c			4.5	2.1
1/4			5.0	1.6
ch.			5.0	1.6
W.		6.6.1	5.1	1.5
T.P.	49.2	7.21	4.32	2.29
	4+50			
W.			5.6	1.6
ch.			5.3	1.9
1/4			5.4	1.8
c.			5.0	2.2
1/4			5.5	1.7
ch.			5.0	2.2
E.			5.0	2.2

	5+00 H.1		
E.	7.21	5.7	2.0
ct.		5.7	2.0
1/4		5.6	1.6
C		5.1	2.1
1/4		5.8	1.4
ct.		5.4	1.8
W.		5.5	1.7
	5+50		
W		5.4	1.8
ct.		5.3	1.9
1/4		5.6	1.6
C.		5.0	2.2
1/4		5.5	1.7
ct.		5.1	2.1
E		4.9	2.3

	6+00 H.1		
E.	7.21	4.6	2.6
ct.		4.9	2.3
1/4		5.5	1.7
C		4.9	2.3
1/4		5.5	1.7
ct.		5.0	2.2
W.		5.1	2.1
	6+50		
W.		5.3	1.9
ct.		5.2	2.0
1/4		5.3	1.9
C.		4.7	2.5
1/4		5.3	1.9
ct.		4.9	2.3
E		4.8	2.4

	7+00		
	H.1		
E	7.21	4.6	2.6
ch.		4.8	2.4
1/4		5.1	2.1
c		4.5	2.7
1/4		5.3	1.9
ch.		5.2	2.0
W.		5.2	2.0
=P.C.	7+53.2	80' Wide	
W		H.1	3.1
ch.		5.1	2.1
1/4		5.3	1.9
c.		4.6	2.6
1/4		5.0	2.2
ch.		4.6	2.6
E.		4.3	2.9

	8+00		
E.	7.21	4.6	2.6
ch.		4.6	2.6
1/4		5.2	2.0
c		4.6	2.6
1/4		5.1	2.1
3'W. 1/4		3.9	3.3
ch.		2.7	4.5
W.		0.3	6.9
	8+50		
W.		2.3	4.9
ch.		2.7	4.5
3'E ch.		3.0	4.2
1/4		5.1	2.1
c		4.9	2.3
1/4		5.4	1.8
ch.		4.8	2.4
E.		4.4	2.8

	9+00			
		~~H.I~~		
E.		7.21	4.7	2.5
ch.			4.9	2.3
1/4			5.9	1.3
C			5.3	1.9
1/4			6.2	1.0
4W. 1/4			5.2	2.0
ch.			4.5	2.7
W.		7.21	2.8	4.4
T.P.	1.95	6.44	2.72	4.49
		9+50		
W.			3.3	3.1
ch.			4.1	2.3
10E ch.			4.6	1.8
1/4			5.6	0.8
C			5.1	1.3
1/4			5.6	0.8
ch.			4.3	2.1
E.			4.1	2.3

	10+00		
	~~H.I~~		
E.	6.44	4.7	1.7
ch.		5.1	1.3
1/4		5.9	0.5
C		5.4	1.0
1/4		3.7	2.7
10W 1/4		3.7	2.7
ch.		4.4	2.0
W.		4.7	1.7
10+05.74 = P.C.			
	10+50		
W		5.1	0.9
ch.		5.0	1.4
1/4		5.5	0.9
C		5.5	0.9
1/4		6.2	0.2
ch.		5.3	1.1
E.		4.8	1.6

11+00

H.I 6.44

E.	4.8	1.6
Ch.	5.5	0.9
1/4	6.6	−0.2
C.	5.3	1.1
1/4	5.8	0.6
3'N 1/4	4.7	1.7
Ch.	5.8	0.6
W.	7.3	−0.9

11+50

W.	7.4	−1.0
ef.	7.6	−1.2
10yr. ch.	7.0	−0.6
1/4	5.5	0.9
C.	5.2	1.2
1/4	6.5	−0.1
2.5	6.6	−0.2
3.5 Ch.	5.6	0.8
	5.3	1.1
E.	5.0	1.4

11+80.14 = ACC.

12+00

S.	6.44	4.7 1.7
ef.		5.1 1.3
10'N.Ch.		5.6 0.8
1/4		6.5 −0.1
C.		5.6 0.8
1/4		5.7 0.7
7'N 1/4		7.2 −0.8
Ch.		7.7 −1.3
N.		8.9 −2.5

12+50

N.		8.1 −1.7
ef.		6.9 −0.5
3'S. Ch.		6.8 −0.4
1/4		5.5 0.9
Ch.		5.6 0.8
1/4		6.4 0.0
2'S.1/4		5.0 1.4
Ch.		4.7 1.7
S.		4.2 2.2

	13+00			
S.		6.44	3.1	3.3
Ch.			3.9	2.5
10'N Ch.			4.6	1.8
1/4			6.0	0.4
C.			5.4	1.0
1/4			5.2	1.2
Ch.			7.2	−0.8
N.			7.6	−1.2
	13+50			
N			8.2	−1.8
10'S. brop't.			8.0	−1.6
Ch.			5.5	0.9
10'S. Ch.			5.0	1.4
1/4			3.6	2.8
C.			4.1	2.3
1/4			5.4	1.0
2'S. 1/4			5.1	1.3
3'S. 1/4			3.6	2.8
Ch.				
Ch.			3.0	3.4
S.			2.2	4.2

	14+00			
S.		6.44	1.0	5.4
Ch.			1.6	4.8
10'N Ch.			2.3	4.1
1/4			4.0	2.4
C.			3.3	3.1
1/4			2.7	3.7
10'N 1/4			4.0	2.4
Ch.			5.2	1.2
N		6.44	8.0	−1.6
T.R.	6.52	10.05	2.91	3.53
	14+50			
N			10.3	−1.3
Ch.			7.2	2.8
75 Ch.			7.1	2.9
1/4			5.3	4.7
C.			6.3	3.7
1/4			7.0	3.0
3'S. 1/4			5.2	4.8
Ch.			4.5	5.5
S.			3.8	6.2

15+00

H.1

S.	10.05	3.1	6.9
ch.		3.6	6.4
+11 N ch.		4.2	5.6
1/4		5.6	4.4
C		5.4	4.6
1/4		4.4	5.6
5 N. 1/4		6.1	3.9
ch.		6.9	3.1
N		7.5	2.5

15+50

N		7.5	2.5
6.5.		6.1	3.9
ch.		6.1	3.9
9.5 ch.		5.3	4.7
1/4		3.7	6.3
C		4.7	5.3
1/4		5.5	4.5
+3. S. 1/4		3.7	6.3
ch.		3.0	7.0
S.		2.5	7.5

16+00

H.1

S.	10.05	2.3	7.7
ch.		2.7	7.3
10 ch.		3.4	6.6
1/4		5.1	4.9
C		4.5	5.5
1/4		3.4	6.6
7 N 1/4		5.2	4.4
ch.		5.8	4.2
N		6.2	3.8

16+50

N		9.0	1.0
9 N.		6.3	3.7
ch.		6.6	3.4
9 N ch.		5.8	4.2
1/4		3.7	6.3
C		4.7	5.3
1/4		5.2	4.8
3 N. 1/4		3.6	6.4
ch.		2.6	7.4
S		2.0	8.0

	17+00		
	~~H.1~~		
S.	1005	2.2	7.8
cl.		2.9	7.1
10'N.cl.		3.7	6.3
1/4		5.0	5.0
c.		4.6	5.4
11'E c.		3.9	6.1
1/4		5.1	4.9
cl.		6.6	3.4
10'cl.		11.6	−1.6
N.		12.4	−2.4
	17+50		
N		8.6	1.4
9'S.		6.5	3.5
cl.		6.5	3.5
1/4		4.4	5.6
c		4.4	5.6
1/4		4.9	5.1
3'S.1/4		3.1	6.9
cl.		2.5	7.5
S.		1.8	8.2

	18+00		
	~~H.1~~		
S.	1005	1.4	8.6
cl.		1.9	8.1
10'N'cl.		2.5	7.5
1/4		3.8	6.2
c		3.6	6.4
1/4		3.9	6.1
cl.		5.5	4.5
N		6.4	3.6
	18+50		
N		5.5	4.5
cl.		4.5	5.5
1/4		3.0	7.0
C		2.7	7.3
1/4		2.3	7.7
cl.		1.3	8.7
S		0.7	9.3

18+73 = P.C. - R. 350' = 0+00

S.		10.05	0.5	9.5
cl.			0.8	9.2
1/4			1.6	8.4
C			2.2	7.8
1/4			2.5	7.5
cl.			3.6	6.4
N		10.05	4.7	5.3
on Hub. T.P. = BM.	11.41	16.76	4.70	5.35 on Hub on N. side Blvd. at P.C. 350R curve.

0+50

N			9.9	6.9
cl.			9.0	7.8
1/4			8.5	8.3
C.			7.9	8.9
1/4			7.3	9.5
cl.			6.6	10.0
S			6.2	10.6

1+00

S.		16.76	5.6	11.2
cl.			5.7	11.1
1/4			5.8	11.0
C			6.7	10.1
1/4			7.2	9.6
cl.			7.2	9.6
N			8.0	8.8

1+50

N			6.4	10.4
C.			6.1	10.7
1/4			6.1	10.7
C			5.4	11.4
1/4			5.4	11.3
cl.			4.7	11.1
S.			4.5	12.3

2+00

S.		16.76	3.4	13.4
Ct.			3.4	13.3
1/4			2.9	13.8
C			3.9	12.9
1/4			4.6	12.2
2' N. 1/4			4.0	
Ct.			4.0	12.6
N			4.7	12.1

2+50

N			3.1	13.7
Ct.			2.7	14.1
+9' S. Ct.			2.7	
1/4			3.5	13.3
C			2.6	14.2
1/4			1.4	15.4
Ct.			2.6	14.0
S			2.5	14.3

POSTED

3+00

S			1.4	15.4
Ct.			1.4	15.4
1/4			0.6	16.0
C			1.8	15.0
1/4			2.4	14.4
2' N 1/4			1.8	14.8
Ct.			1.5	15.1
N			1.6	15.2

3+50

N			0.9	15.9
Ct.			0.9	16.1
+8' Ct.			0.8	
1/4			1.8	15.0
C			0.7	16.1
1/4			-0.2	17.0
Ct.			0.8	16.0
S		16.76	0.7	16.1
T.P.	7.23	23.73	0.26	16.50

4+00

S.	23.73	6.9	17.8
ch.		6.6	17.1
1/4		7.0	16.7
C.		6.0	17.7
1/4		8.1	15.6
2'N 1/4		7.1	
ch.		7.4	16.3
2			
N		7.6	16.1

4+50

N		7.5	16.2
ch.		6.9	16.8
9'5 ch.		6.8	
1/4		7.5	16.2
C		6.5	17.2
1/4		5.4	18.3
3'S. 1/4		6.0	
ch.		6.2	17.5
S		6.1	17.6

5+00

S.	23.73	5.3	18.4
ch.		5.6	18.1
1/4		5.2	18.5
C.		6.4	17.3
1/4		7.1	17.6
3'N 1/4		6.2	
ch.		6.4	17.3
N		6.3	17.4

5+50

N		6.2	17.5
ch.		5.9	
9'1/2 ch.		5.6	
2		6.5	
C		5.5	18.2
1/4		4.3	
4'S. 1/4		5.0	
ch.		4.9	
S.		4.8	18.9

	6+00			
S.		23.73	4.2	19.5
Cl.			4.1	
1/4			3.9	
C			5.0	18.7
1/4			5.6	
Cl.			5.4	
N			5.8	17.9
		23.73		
B.M. Hub. NW cor. B1K21			3.98	19.75
	6+50			
N			5.1	18.6
Cl.			4.9	
1/4			4.1	
C.			4.5	19.2
1/4			3.8	
Cl.			3.5	
S.			3.7	20.0

	7+00			
S.			2.9	20.8
Cl.			2.9	
10' N Cl.			3.1	
1/4			4.0	
C			3.3	20.4
1/4			2.7	
Cl.			4.0	
N			4.4	19.3
	7+50			
N			3.4	20.0
Cl.			3.1	
1/4			2.3	
C.			2.6	21.1
1/4			3.8	
13.5 1/4			2.2	
Cl.			2.3	
S.		23.73	2.3	21.4
T.P.	6.30	27.84	2.19	21.54

	8+00		
S.	27.84	5.8	22.0
Ch.		6.0	
7" N.Ch.		60	
8" "		73	
1/4		75	
C		6.3	21.5
1/4		6.1	
Ch.		6.7	
N		7.3	20.5
	8+50		
N		7.0	20.8
Ch.		6.3	
1/4		5.1	
C		5.9	21.9
1/4		6.7	
+2		5.6	
Ch.		5.3	
S.		5.2	22.6

	9+00		
S.		4.8	23.0
Ch.		5.1	
+5' Ncl.		5.2	
1/4		6.3	
C		5.6	22.2
1/4		5.1	
Ch		6.5	
N		6.8	21.0
	9+50		
N		6.5	21.3
Ch.		6.0	
1/4		4.8	
C		5.0	22.8
1/4		5.4	
C.		4.7	
S.		4.4	23.4

	10+00			
S.		27.84	3.9	23.9
ch.			4.1	
1/4			4.1	
C.			4.6	23.2
1/4			5.1	
ch.			5.3	
N			6.0	21.8
	10+50			
N			5.7	22.1
ch.			4.7	
1/4			5.4	
C.			4.0	23.8
1/4			3.9	
ch.			3.8	
S.			3.7	24.1

	11+00			
S.			3.3	24.5
ch.			3.5	
1/4			3.1	
C			4.0	23.8
1/4			5.1	
ch.			4.7	
N			5.6	22.1
	11+50			
N			5.6	22.2
ch.			4.9	
1/4			5.0	
C			4.9	22.9
1/4			2.6	
ch.			3.2	
S.		27.84	3.1	24.7
T.P.	5.14	30.10	2.88	24.96

	12+00		
S.	30.10	5.0	2V.1
Ch.		5.4	
1/4		5.1	
C		6.2	23.9
1/4		6.7	
Ch.		7.1	
N		7.9	22.2
	12+50		
N		7.8	22.3
Ch.		6.9	
1/4		6.9	
C		5.8	24.3
1/4		4.7	
Ch.		5.0	
S.		4.7	2V.4

	13+00		
S	30.10	4.3	2V.6
Ch.		4.5	
1/4		4.3	
C		5.2	24.9
1/4		6.4	
Ch.		6.4	
N		7.0	23.1
	13+50		
N		6.2	23.9
Ch.		5.3	
1/4		5.6	
C		4.3	2V.8
1/4		3.6	
Ch.		4.2	
S.		3.6	26.V

	14+00			
S		30.10	3.2	26.8
ch.			3.3	
1/4			2.8	
C			4.1	26.0
1/4			4.0	
ch.			4.4	
N			4.9	25.2
	14+50			
N			3.7	26.4
ch.			3.5	
1/4			4.0	
C.			2.8	27.3
1/4			2.1	
ch.			2.5	
S.			2.5	27.6

	15+00			
S.			2.2	27.9
ch.			2.2	
1/4			1.7	
C.			2.4	27.7
1/4			3.5	
ch.			2.9	
N		30.10	3.5	26.6
T.P.	6.87	33.85	3.12	26.98
	15+50			
N			6.9	27.0
ch.			6.8	
1/4			6.3	
C			6.1	27.8
1/4			5.3	
ch.			5.6	
S			5.6	28.2

	16+00		
S.	33.8	5.2	28.7
Ch.		5.3	
1/4		4.8	
C		5.8	28.1
1/4		6.0	
Ch.		6.2	
N	16	6.7	27.2
	16+50		
N		6.3	27.6
Ch.		5.8	
1/4		5.6	
C		5.3	28.6
1/4		4.2	
Ch.		4.9	
S.		4.7	29.1

	17+00		
S.		4.2	29.7
Ch.		4.4	
1/4		3.6	
C		4.6	29.3
1/4		5.5	
Ch.		5.4	
N		5.7	26.2
	17+50		
N		5.0	28.9
Ch.		5.0	
1/4		4.8	
25 1/4		5.5	
C.		4.4	29.5
1/4		3.2	
Ch.		4.0	
S		3.7	30.2

18+00			
S.		3.5	30.4
Ct.		3.6	
1/4		2.9	
C		4.1	29.8
1/4		5.2	
2' N. 1/4 Ct.		4.3	
		4.7	
N		5.1	28.8
18+50			
N		4.9	29.0
Ct.		4.6	
9'S Ct.		4.2	
1/4		5.1	
C		3.9	30.0
1/4		2.6	
Ct.		3.7	
S	33.85.	3.5	30.4
			Hub NE Cor. Blk 24
T.P. = B.M.	3.20	33.50 3.55	30.30 on Hub.

19+00			
S	33.50	3.4	30.1
Ct.		3.5	
1/4		2.7	
C		3.4	30.1
10' N.C.		4.7	
1/4		3.7	
Ct.		3.8	
N		4.2	29.3
19+50			
N		4.1	29.4
Ct.		3.9	
9'S. Ct.		3.7	
1/4		4.9	
C		3.8	29.7
1/4		3.1	
Ct.		3.7	
S.		3.9	29.6

20+00

S.	33.50	3.7	29.8
Ch.		4.1	
1/4		3.6	
C		4.0	29.5
1/4		4.0	
Ch.		3.7	
N		4.1	29.4

20+50

N		4.6	28.9
Ch.		4.4	
1/4		5.0	
C		4.4	29.1
1/4		4.2	
Ch.		4.4	
S.		4.5	29.0

21+00

S.		4.8	28.7
Ch.		5.0	
1/4		5.0	
C		4.8	28.7
1/4		5.4	
Ch.		5.6	
N		5.2	28.3

21+50

N		5.6	27.9
Ch.		5.6	
1/4		5.6	
C		5.2	28.3
1/4		5.0	
Ch.		5.0	
S		5.3	28.2

	22+00			
S.			5.1	28.4
Ct.			5.2	
1/4			5.6	
C.			5.4	28.1
1/4			5.7	
Ct.			5.9	
N			6.0	27.5
	22+50			
N			6.3	27.2
Ct.			5.9	
1/4			5.9	
C			5.1	28.4
1/4			5.1	
Ct.			4.6	
S			4.7	28.8

	23+00			
S.			4.1	29.4
Ct.			4.5	
1/4			5.1	
C			5.4	28.1
1/4			5.7	
Ct.			5.8	
N		33.50	5.7	27.8
T.P.	6.96	34.80	5.66	27.84
	23+50			
N			7.9	26.9
Ct.			6.8	
1/4			6.7	
C.			5.9	28.9
1/4			5.7	
Ct.			5.1	
S.			4.7	30.1

	24+00		
S.	34.80	4.5	30.3
Ch.		5.0	
1/4		5.6	
C.		6.1	28.7
1/4		6.9	
Ch.		6.9	
N		8.1	26.7
	24+50		
N		8.2	26.6
Ch.		7.3	
1/4		6.9	
C		5.9	28.9
1/4		4.9	
Ch.		4.5	
S.		4.2	30.6

	25+00		
S.	34.80	3.3	31.5
Ch.		4.1	
1/4		4.4	
C		5.2	29.6
1/4		6.1	
Ch.		6.4	
N		7.5	27.3
	25+50		
N		6.6	28.2
Ch.		6.1	
1/4		5.8	
C		5.8	29.0
1/4		4.1	
Ch.		3.8	
S		3.5	31.3

	26+00			
S.		34.80	3.0	31.8
ch.			3.1	
1/4			3.5	
c			4.3	30.5
1/4			4.6	
ch.			5.2	
N			5.9	28.9
	26+50			
N			5.4	29.4
ch.			4.9	
1/4			4.2	
c.			3.9	30.9
1/4			3.0	
ch.			3.0	
S.			2.5	32.3

	27+00			
S			2.0	32.8
ch.			2.6	
1/4			2.9	
c			3.3	31.5
1/4			4.4	
ch.			4.2	
N		34.80	5.0	29.8
T.P.	3.28	33.55	4.53	30.27
	27+50			
N			3.5	30.1
ch.			3.2	
1/4			2.8	
c			1.9	31.7
1/4			1.6	
ch.			0.7	
S			0.5	33.1

28+00

S.	33.5	0.9	32.7
ch.		1.4	
1/4		2.1	
C		2.2	31.4
1/4		2.9	
ch.		3.1	
N		3.9	29.7

28+50

N		4.8	28.8
ch.		4.4	
1/4		3.7	
C		3.2	30.4
1/4		3.1	
ch.		2.7	
S		2.2	31.4

POSTED

29+00

S.		5.7	27.9
ch.		6.2	
1/4		6.3	
C		6.6	27.0
1/4		6.6	
ch.		6.9	
N		7.1	26.5

29+50

N		12.9	20.7
ch.		12.0	
1/4		11.4	
C		11.5	22.1
1/4		11.5	
ch.		11.5	
S		11.1	22.5

POSTED

2+60 = 5+05.1

S.	33.55	12.6	21.0
Cl.		12.9	
1/4		13.4	
C		13.9	19.7
1/4		14.0	
Cl.		14.8	
N	33.55	17.0	16.6
		12.41	21.14

POSTED

19/11/10 Shaw Evans

Levels on Dove Street Road

B.M. Brass Plug N.W. Cor. Dove Washington

Sta				
	2.13	266.69		264.46
0+0			5.1	261.6
+1			3.4	263.3
+50			7.9	258.8
T.P.	0.34	254.31	12.72	253.97
1+0			1.8	252.5
Δ 1+10.92			2.4	251.9
+50			5.3	249.0
2+0			8.3	246.0
Δ 2+12.08			9.4	244.9
+50			12.2	242.1
T.P	0.99	243.60	11.70	242.61
Δ 2+87			5.8	237.8
3+0			6.8	236.8
T.P	0.50	231.92	12.18	231.42
+50			5.9	226.0
Δ 3+57.7			7.2	224.7
T.P	2.84	222.49	12.27	219.65
4+0			10.0	212.5
Δ 4+22			8.8	213.7
4+50			9.4	213.1
5+0			7.1	215.4
Δ 5+37.8			9.1	213.4
+50			8.8	213.7
T.P	1.45	211.93	12.01	210.48
6			5.7	206.2
Δ 6+29			8.6	203.3
+50			12.7	199.2
T.P	1.89	201.21	12.61	199.32
7			5.5	195.7
Δ 7+28			6.5	194.7
+50			8.0	193.2
8+0			9.6	191.6
+50			12.7	188.5
T.P	0.46	188.74	12.93	188.28

188.74

21 Shaw
11 Evans
10 Fichner

8+72.1			4.5	181.2	
9+0			7.7	181.0	
+50			12.4	176.3	
Δ9+78.5			13.1	175.6	
T.P.	0.61	176.44	12.91	175.83	
10+0			3.3	173.1	
+50			7.1	169.3	
11+0			10.3	166.1	
Δ11+48	0.93	167.90	9.47	166.97	B.M. on hub
12+0			3.2	164.7	
Δ12+44.7			6.6	161.3	
+50			7.7	160.2	
T.P.	0.63	155.94	12.59	155.31	
13+0			4.0	151.9	
+50			6.8	149.1	
14+0			12.6	143.3	
T.P.	2.82	146.58	12.18	143.76	
+50			5.6	141.0	

15+0			5.9	140.7
Δ15+55.9			9.3	137.3
T.P.	5.71	140.37	11.92	134.66
16+0			5.2	135.2
Δ+38.5			8.8	131.6
+50			9.7	130.7
T.P.	3.56	131.99	11.94	128.43
17+0			2.3	129.7
+16			1.8	130.2
+50			5.5	126.5
18+0			8.5	123.5
Δ+35.9			10.5	121.5
+50			12.8	119.2
T.P.	1.22	120.67	12.54	119.45
19+0			6.2	114.5
Δ+34.4			6.0	114.7
+50			6.8	113.9
20+0			11.0	109.7

r.l. T.P	3.00	111.10	12.57	108.10
20+50			5.5	105.6
21+0			7.8	103.3
+50			10.7	100.4
22+0			11.7	99.4
T.P	2.68	101.20	12.58	98.52
Δ22+32.3			4.5	96.7
+50			6.3	94.9
23+0			17.4	83.8
+50			18.4	82.8
24+0			14.3	86.9
T.P	2.45	91.20	13.45	88.75
+50			3.3	87.9
25+0			4.6	86.6
+50			7.1	84.1
26+0			11.5	79.7
+50			12.2	79.0
Δ26+80.2			10.5	80.7

T.P	0.76	79.54	12.42	78.78
27+0			1.3	78.2
+50			2.4	77.1
28+0			4.4	75.1
+50			5.6	73.9
29+0			11.1	68.4
T.P	1.69	68.45	12.78	66.76
+50			3.9	64.6
Δ29+74			5.3	63.2
30+0			6.8	61.7
+50			5.3	63.2
Δ30+79.7			6.6	61.9
31+0			6.7	61.8
+50			8.7	59.8
32+0			11.5	57.0
+50			12.6	55.9
T.P	0.49	56.48	12.46	55.99
Δ32+72.8			3.8	54.7

56.48

33+0			5.3	51.2	
+50			10.2	46.3	
T.P.	0+52.	44.64	12.36	44.12	
34+0			4.9	39.7	
Δ 34+37.2	0.20	37.31	7.53	37.11	BM on hub
T.P.	0.20	30.08	7.53	29.78	
+50			1.4	28.7	
35			3.3	26.8	
35+0			4.7	25.4	
+25			5.4	24.7	
+50			6.0	24.1	
+75			7.0	23.1	
36+0			7.7	22.4	
+25			8.4	21.7	
+50			9.3	20.8	
+75			10.2	19.9	
37+0			11.3	18.8	
+25			12.2	17.9	
T.P.	1.74	18.84	12.98	17.10	

18.84

37+50	2.3	16.5
+75	3.7	15.1
38+0	4.6	14.2
+25	5.6	13.2
+50	6.3	12.5
+75	7.0	11.8
39+0	7.6	11.2
+25	8.7	10.6
+50	9.1	9.7
+75	9.9	8.9
40+0	10.7	8.1
40+28.05	11.1	7.7

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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.		