441

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

TRANSIT

398

F.B. 441

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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	2 1/3	21	49	41	95 2/3
2	4 2/3	22	51 1/3	42	98
3	7	23	53 2/3	43	100 1/3
4	9 1/3	24	56	44	102 2/3
5	11 2/3	25	58 1/3	45	105
6	14	26	60 2/3	46	107 1/3
7	16 1/3	27	63	47	109 2/3
8	18 2/3	28	65 1/3	48	112
9	21	29	67 2/3	49	114 1/3
10	23 1/3	30	70	50	116 2/3
11	25 2/3	31	72 1/3	51	119
12	28	32	74 2/3	52	121 1/3
13	30 1/3	33	77	53	123 2/3
14	32 2/3	34	79 1/3	54	126
15	35	35	81 2/3	55	128 1/3
16	37 1/3	36	84	56	130 1/3
17	39 2/3	37	86 1/3	57	133
18	42	38	88 2/3	58	135 1/3
19	44 1/3	39	91	59	137 2/3
20	46 2/3	40	93 1/3	60	140

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

X Section Thorn St. From W.L. 30th to W.L. 29th = 60' wide
Mon. St. (or 30th) + Thorn

B.M.	4.240	324.675		320.435
		0+00 = W.L. 30th St.		
			4.1	320.6
N.L.				
			4.2	
¼			4.4	
℄			4.5	320.2
¼			4.4	
⌀			4.5	
S.L.			4.6	320.1
		0+50		
S.L.			4.6	320.1
⌀			4.7	
¼			4.9	
℄			4.9	319.8
¼			4.8	
⌀			4.9	
N.L.			5.0	319.7
		1+00		
N.L.			4.6	320.1
⌀			4.5	
¼			4.4	
℄			4.2	320.5
¼			3.9	
⌀			4.0	
S.L.			4.1	320.6

X Section Thorn St. (Cont'd)

	1750		
	324.675		
S.L.		4.8	319.9
C		4.5	
1/4		4.5	
℄		4.4	320.3
1/4		4.4	
C		4.2	
N.L.		3.8	320.9
	2700		
N.L.		3.8	320.9
C		4.0	
1/4		4.3	
℄		4.7	320.0
1/4		5.0	
C		5.2	
S.L.		5.4	319.3
	2750		
S.L.		5.9	318.8
C		5.6	
1/4		5.5	
℄		5.3	319.4
1/4		5.0	
C		4.6	
N.L.		4.1	320.3

X Section Thorn St (Cont'd)

324.17
2+70 = E.L. Dale St. 60' wide

N.L.		4.1	320.1
C		4.4	
1/4		4.7	
℄		4.9	319.3
1/4		5.3	
C		5.5	
S.L.		5.8	318.4
	E.C.L. Dale St.		
S.L.		5.9	318.3
C		5.6	
1/4		5.3	
℄		5.1	319.1
1/4		4.6	
C		4.5	
N.L.		4.2	320.0
	E 1/4 Dale St.		
N.L.		4.5	319.7
C		4.6	
1/4		4.9	
℄		5.0	319.2
1/4		5.4	
C		5.7	
S.L.		5.8	318.4

Note Intersection of Dale & Thorn. taken from continuation of Dale St H.I. = 324.17

X Section Thorn St. (Con't.)

℄ Dale St
324.17

S.L.	5.9	318.3
C	5.7	
1/4	5.3	
℄	5.1	319.1
1/4	5.0	
C	4.8	
N.L.	4.5	319.7

W 1/4 Dale St.

N.L.	4.7	319.5
C	5.0	
1/4	5.3	
℄	5.4	318.8
1/4	5.8	
C	5.9	
S.L.	6.2	318.0

M.C.L. Dale St.

S.L.	6.5	317.7
C	6.1	
1/4	5.9	
℄	5.7	318.5
1/4	5.4	
C	5.2	
N.L.	4.9	319.3

X Section Thorn St (Cont.)

3+30 = N.L. Dale St
324.17

N.L.		5.1	319.1
C		5.2	
1/4		5.6	
℄		5.9	318.3
1/4		6.2	
C		6.4	
S.L.		6.5	317.7
	3+40		
	324.675		
S.L.		7.4	317.3
C		7.2	
1/4		6.9	
℄		6.7	318.0
1/4		6.3	
C		6.1	
N.L.		5.9	318.8
	3+50		
N.L.		6.2	318.5
C		6.4	
1/4		6.6	
℄		6.9	317.8
1/4		7.3	
C		7.7	
S.L.		8.3	316.4

X Section Thorn St (Cont'd)

		3+75 324.675		
SL			13.3	311.4
C			9.9	
1/4			8.6	
℄			7.8	316.9
1/4			7.3	
C			7.0	
NL			6.8	319.9
		3+90		
NL			7.8	316.9
C			8.5	
1/4			9.4	
℄			10.4	314.3
1/4			12.6	
C			14.5	
SL			17.3	307.4
TP	2.65	316.95	10.38	314.30
		4+00		
SL			10.9	306.0
C			9.7	
1/4			7.7	
℄			6.4	310.5
1/4			5.2	
C			4.2	
NL			2.8	314.1

X Section Thorn St. (Cont'd)

		4+25		
		316.95		
NL			8.3	308.6
C			8.3	
¼			7.6	
℄			7.2	309.7
¼			6.6	
C			5.1	
SL				
T.P.	12.18	326.48	3.8	313.1
			2.65	314.30
		4+50		
SL			6.1	320.4
C			6.0	
¼			6.3	
℄			6.6	319.9
¼			7.0	
C			7.2	
NL			7.5	319.0
		4+75		
NL			5.5	321.0
C			5.1	
¼			4.6	
℄			4.6	321.9
¼			4.5	
C			4.7	
SL			4.7	321.8

X Section Thorn St (Con't)

	5+00 326.48		
SL		5.2	321.3
C		4.9	
¼		4.7	
℄		4.4	322.1
¼		4.4	
C		4.6	
NL		4.9	321.6
	5+50		
NL		4.4	322.1
C		4.4	
¼		4.2	
℄		4.2	322.3
¼		4.2	
C		4.2	
SL		4.2	322.3
	5+98.11 = EL. 29th St. 60' wide		
SL		2.7	323.8
C		2.8	
¼		2.9	
℄		3.0	323.5
¼		3.2	
C		3.5	
NL		3.8	322.7

X Section Thorn St (Cont)

E.C.L. 29th St

326.48

N.L.			3.2	323.3
C			3.3	
1/4			3.1	
C			2.8	323.7
1/4			2.6	
C			2.5	
S.L.			2.5	324.0

E 1/4 29th St

S.L.			2.4	324.1
C			2.2	
1/4			2.4	
C			2.3	324.2
1/4			2.3	
C			2.6	
N.L.			2.8	323.7

C 29th St

N.L.			2.5	324.0
C			2.2	
1/4			1.7	
C			1.5	325.0
1/4			2.1	
C			2.3	
S.L.			2.2	324.3
T.P.	6.06	328.78	3.76	322.72

X Section Thorn St (Cont)

N ¼ 29th St.

328.78

S.L.		4.4	324.4
C		4.4	
¼		3.8	
℄		3.5	325.3
¼		3.9	
C		4.3	
N.L.		4.4	324.4

N.C.L. 29th St.

N.L.		4.0	324.8
C		3.9	
¼		3.4	
℄		3.2	3256
¼	POSTED	3.5	
C		3.8	
S.L.		4.1	3249

W.L. 29th St

S.L.		3.6	326.2
C		3.6	
¼		3.5	
℄		3.1	325.7
¼		3.4	
C		3.8	
N.L.		3.9	324.9

60' wide.

X Section 29th St From N.L. Thorn to S.L. Upas St.

Mon. 55 Cor. 30+44 Thorn

B.M.	4.240	324.675		320.435
	2.65	316.95	10.38	314.30
	12.18	326.48	2.65	314.30
	6.06	328.78	3.76	322.72
	0+00 = N.L. Thorn St.			
E.L.			6.1	322.7
C			5.5	
1/4			5.1	
℄			4.8	324.0
1/4			4.4	
C			4.0	
N.L.			3.9	324.9
	0+50			
N.L.			4.0	324.8
C			4.2	
1/4			4.6	
℄			5.1	323.7
1/4			5.5	
C			5.8	
E.L.			6.0	322.8

X-Section of 29th St (Cont)

	1+00 328.78		
E.L.		6.4	322.4
C		5.8	
1/4		5.3	
℄		4.9	323.9
1/4		4.7	
C		4.6	
W.L.		4.2	324.6
	1+50		
W.L.		3.9	324.9
C		4.6	
1/4		5.2	
℄		6.0	322.8
1/4		6.4	
C		6.7	
E.L.		7.1	321.7
	2+00		
E.L.		7.5	321.3
C		7.3	
1/4		6.9	
℄		6.5	322.3
1/4		6.2	
C		5.8	
W.L.		5.5	323.3

X Section 29th St (Cont'd)

		2+50		
		328.78		
W.L.			5.7	323.1
C			6.2	
1/4			6.6	
Q			6.9	321.9
1/4			7.2	
C			7.5	
E.L.			7.9	320.9
T.P.	10.52	332.32	6.98	321.80
		3+00		
E.L.			9.8	322.5
C			9.8	
1/4			9.4	
Q			8.8	323.5
1/4			8.2	
C			7.9	
W.L.			7.7	324.6
		3+50		
W.L.			6.4	325.9
C			6.8	
1/4			7.3	
Q			7.6	324.7
1/4			7.9	
C			8.8	
E.L.			9.2	323.1

X Section 29th St. (Cont'd)

	4+00		
	332.32		
E.L.		8.0	324.3
C		7.9	
1/4		7.3	
Q		6.8	325.5
1/4		5.9	
C		5.4	
W.L.		5.0	327.3
	4+50		
W.L.		3.6	328.7
C		4.5	
1/4		5.3	
Q		6.0	326.3
1/4		6.5	
C		6.7	
E.L.		6.8	325.5
	5+00		
E.L.		6.0	326.3
C		6.0	
1/4		5.7	
Q		5.4	326.9
1/4		5.0	
C		4.4	
W.L.		4.2	328.1

X Section 29th St (Cont.)

57+50
332.32

W.L.		2.9	329.4
℄		3.7	
¼		4.4	
℄		4.7	327.6
¼		4.8	
℄		4.7	
E.L.		5.3	327.0

57+99 ± = S.L. Ubas St.

E.L.		4.2	328.1
℄		4.6	
¼		4.6	
℄		4.1	328.2
¼		3.8	
℄		3.7	
W.L.		3.5	328.8

60' wide

Y. Section Dale St. From N℄ Thorn to S℄ Ubas

Mon. SE Cor. 30th & Thorn

B.M.	3.72	324.155		320.435
		0+00 = N℄ Thorn St.		
E.L.			4.1	320.1
C			4.2	
¼			4.5	
℄			4.5	319.7
¼			4.7	
C			4.9	
W.L.			5.1	319.1
		0+50		
W.L.			4.2	320.0
C			4.0	
¼			3.9	
℄			3.7	320.5
¼			3.7	
C			3.6	
E.L.			3.6	320.6
		1+00		
E.L.			3.2	321.0
C			3.1	
¼			3.2	
℄			3.2	321.0
¼			3.2	
C			3.4	
W.L.			3.4	320.8

X. Section Dale 54 (Cont)

		1+50		
		324.155		
W.L.			2.7	321.5
C			2.6	
1/4			2.6	
Q			2.5	321.7
1/4			2.3	
C			2.2	
E.L.			2.2	321.0
T.P.	7.20	329.515	1.84	322.315
		2+00		
E.L.			7.5	322.0
C			7.4	
1/4			7.6	
Q			7.6	321.9
1/4			7.5	
C			7.5	
W.L.			7.4	322.1
		2+50		
W.L.			6.9	322.6
C			7.3	
1/4			7.1	
Q			7.2	322.3
1/4			7.1	
C			7.1	
E.L.			6.9	322.6

X Section Dale St. (Cont)

	3+00		
	329.515		
E.L.		6.8	322.7
C		6.7	
¼		6.7	
℄		6.6	322.9
¼		6.6	
C		6.8	
W.L.		6.8	322.7
	3+50		
W.L.		6.3	323.2
C		6.5	
¼		6.3	
℄		6.3	323.2
¼		6.3	
C		6.3	
E.L.		6.4	323.1
	4+00		
E.L.		5.8	323.4
C		6.2	
¼		6.2	
℄		6.3	323.2
¼		6.3	
C		6.5	
W.L.		6.9	322.6

X Section Dale St (Cont.)

	4+50 329.515		
W.L.		6.0	323.5
c		5.8	
1/4		6.0	
℄		5.7	323.8
1/4		5.8	
c		5.9	
E.L.		5.7	323.8
	5+00		
E.L.		5.2	324.3
c		5.4	
1/4		5.4	
℄		5.3	324.2
1/4		5.3	
c		5.2	
W.L.		5.4	324.1
	5+50		
W.L.		5.0	324.5
c		4.8	
1/4		4.8	
℄		5.1	324.4
1/4		4.9	
c		5.1	
E.L.		5.1	324.4

Y section Dale St (Cont)

5+98.90 = 5L Upas St.
329.515

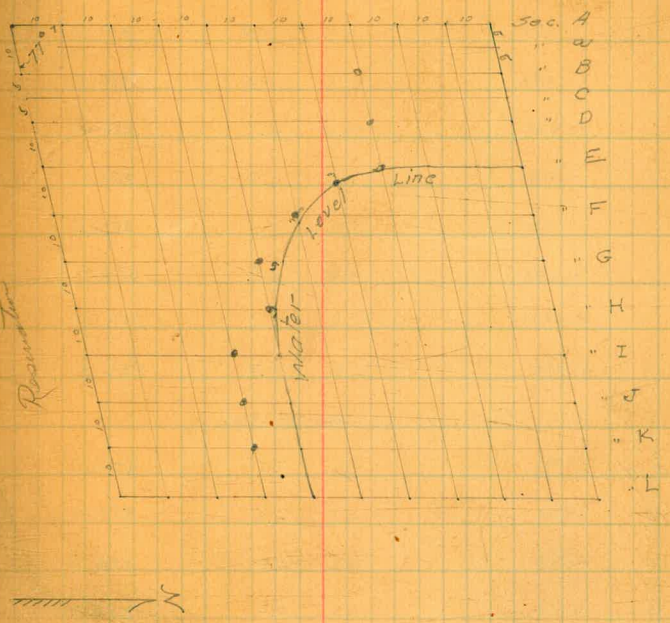
E.L.	4.1	325.4
C	4.6	
1/4	4.6	
E	4.6	324.9
1/4	4.6	
C	4.6	
W	4.7	324.8

4/25/10 Hatch Moore Thomas

Xsec. at Upper Ft Loma Res. for fill for Water Tower

B.M. Mon. 11.75	386.53		374.78
	Sec. A		
0 = North line Reservation		4.4	382.1
10' N.		4.7	381.8
20		5.1	381.4
30		5.4	381.1
40		5.7	380.8
50		6.2	380.3
60		6.4	380.1
70		6.4	380.1
80		6.7	379.8
90		6.9	379.6
100		7.4	379.1
	Sec a		
100' N		6.4	380.1
90		6.0	380.5
80		5.7	380.8
70		5.5	381.0
60		5.7	380.8
50		5.8	380.7
40		5.7	380.8
	Sec. B.		
0		4.1	382.4
10 N.		4.6	381.9

N.E. Cor Ft Loma Ave and Catalina



386.63

20	4.9	381.6
30	5.9	381.1
40	5.6	380.9
50	5.1	381.4
60	5.9	381.1
70	4.1	382.4
80	3.9	382.6
90	4.0	382.5
100	4.2	382.3

Sec C Top of Bank

100 N	2.2	384.3
90	2.3	384.2
80	2.4	384.1
70	2.2	384.3
60	2.4	384.1
50	3.5	383.0
40	5.2	381.3
30	5.4	381.1
20	5.0	381.5
10	4.6	381.9
0	4.1	382.4

Sec D

0	3.9	382.6
10	4.6	381.9

386.63

20	5.0	381.5
30	5.0	381.5
40	3.7	382.8
50	2.0	384.5
60	2.7	383.8
70	3.9	382.6
80	4.0	382.5
92	4.3	382.2
100	4.3	382.2

Sec. E

100 N. Water level	8.4	378.1
90	8.4	378.1
80	8.4	378.1
70	8.4	378.1
60	6.4	380.1
50	4.2	382.3
40	1.8	384.7
47 Top of Bank	1.7	384.8
30	3.7	382.8
20	4.7	381.8
10	4.5	382.0
0	4.0	382.5

386.63

Sec F

0		4.0	387.5
10		4.6	381.9
20		4.2	387.3
25		3.3	383.2
30	Top of Bank.	1.5	385.0
40		3.9	382.6
50		7.2	379.3
53	Water Level	8.4	378.1

Sec G

45	Water Level	8.4	378.1
40		6.1	380.4
30		2.0	384.6
24	Top of Bank.	1.5	385.0
20		3.5	383.0
10		4.5	382.0
0		4.1	382.4

Sec H

0		4.1	382.4
10		4.5	382.0
10		3.2	383.3
25	Top of Bank.	1.5	385.0
30		3.5	383.0
40		7.5	379.0
41	Water Level	8.4	378.1

386.63

Sec I

43	Water Level	8.4	378.1
30		3.4	383.1
24	Top of Bank.	1.9	384.6
20		3.0	383.5
10		4.6	381.9
0		4.1	382.4

Sec J

6		4.2	382.3
10		4.6	381.9
20		2.9	383.6
24	Top of Bank.	1.7	384.8
30		3.8	382.7
40	Water Level	8.4	378.1

Sec K

40	Water Level	8.4	378.1
30		3.6	382.9
23		1.6	384.9
20		2.6	383.9
10		4.6	381.9
0		4.3	382.2

Sec L

0		4.3	382.2
10		4.6	381.9

386.53

20		2.1	383.4
24	Top of Bank	1.7	384.8
30		4.0	382.5
40	Water Level	8.4	378.1

2/25 Hatch
10 Moore
Thomas

Xsections Catalina St. { 40' St.
10' Curbs

RDM. BC 376.74 374.75

EL PT Roma.

N.		1.9	374.8
½		1.7	
½		1.5	
C		1.3	375.4
½		1.3	
½		1.2	
S.		0.9	375.8
	50' E		
S		1.4	376.3
½		2.3	
½		2.5	
C		2.5	374.2
½		2.5	
½		2.7	
N		2.9	373.8
	100' E		
N		4.1	372.6
½		3.8	
½		3.7	
C		3.5	373.2
½		3.5	
½		2.9	
S		2.0	374.7

376.74

150 E

S	3.3	373.4
cb	3.7	
1/4	4.0	
C	4.2	372.6
1/4	4.3	
cb	4.8	
N	4.5	372.2

200 E

N	5.1	371.6
cb	4.7	
1/4	4.7	
C	4.6	372.1
1/4	4.5	
cb	4.3	
S	3.9	372.8

250 E

S	4.5	372.2
cb	4.3	
1/4	4.9	
C	5.1	371.6
1/4	5.1	
cb	5.2	
N	5.4	371.3

376.74

300 E

N	6.0	370.7
cb	5.8	
1/4	5.7	
C	5.5	371.2
1/4	5.4	
cb	5.2	
S	4.9	371.8

350 E

S	5.8	370.9
cb	6.0	
1/4	6.0	
C	6.5	370.2
1/4	6.6	
cb	7.0	
N	7.2	369.5

400 E = NL. Cortez

N	9.0	367.7
cb	8.6	
1/4	8.2	
C	8.1	368.6
1/4	7.9	
cb	7.8	
S	7.5	369.2

37674

Eb. Cortez Sec A

N			12.1	364.6	
cb			11.6		
¼			11.3		
c			11.1	365.6	
¼			10.9		
cb			10.6		
S			10.1	366.6	
			Sec B		
c			10.7	366.0	
cb			10.4		
¼			10.9		
c			11.1	365.6	
¼			11.4		
cb			11.7		
N	0.58	365.18	12.14	364.60	Hub
		50' E of Sec B.			
N			3.9	361.3	
cb			3.6		
¼			3.0		
c			2.8	362.4	
¼			3.8		
cb			3.3		
S			2.3	362.9	

365.18

100' E

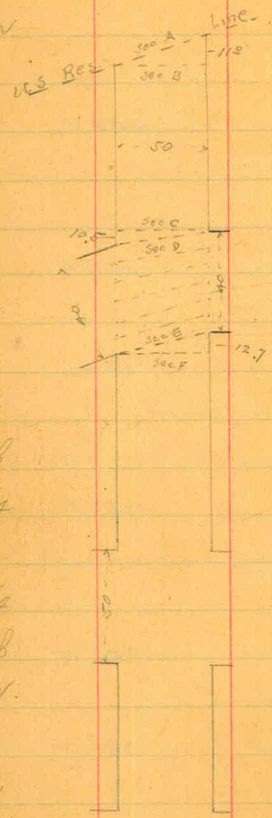
S	5.3	359.9
cb	6.3	
¼	5.9	
c	6.0	359.2
¼	6.5	
cb	6.8	
N	7.0	358.2
	150' E	
N	9.9	355.3
cb	9.5	
¼	9.0	
c	8.5	356.7
¼	8.8	
cb	9.0	
S	8.1	357.1
	200'	
S	12.2	355.0
cb	11.0	
¼	10.8	
c	10.8	354.4
¼	10.3	
cb	11.6	
N	11.5	353.3

		366.18		
TP	4.50	357.68	13.25	357.93
		250 E		
N			4.8	357.6
cb			4.9	
1/2			3.8	
C			3.5	353.9
1/a			3.7	
cb			3.5	
S			3.1	354.3
		300 E		
S			4.0	353.4
cb			4.2	
1/2			4.7	
C			4.6	352.8
1/a			4.8	
cb			5.5	
N			5.8	351.6
		350 E		
N			6.0	351.4
cb			6.0	
1/a			5.3	
C			5.0	352.4
1/4			6.0	
cb			4.8	
S			4.3	353.1

	357.43		
	400 E		
S		3.7	353.7
cb		4.0	
1/2		4.3	
C		4.2	353.2
1/a		4.5	
cb		5.3	
N		5.2	352.4
	435 E Sec C		
N		4.3	353.1
cb		4.7	
1/2		3.5	
C		3.8	353.6
1/a		3.8	
cb		3.4	
S		3.2	354.2
	Sec D		
S		3.2	354.2
cb		3.3	
1/4		3.6	
C		3.5	353.9
1/4		3.9	
cb		4.3	
N		4.1	353.3

4/25/10 Hatch, Myers, Thornum · Xkee. · Cortez St. · 50' Street, 10' Curbs.

T.P.	12.47	377.07		364.60
		Sec A		
W			2.3	374.8
cb			2.8	
1/4			2.9	
c			3.2	373.9
1/4			3.4	
cb			4.1	
E			4.3	372.8
		Sec B = 104.5 S. of Catalina		
E			4.3	372.8
cb			4.1	
1/4			3.6	
c			3.7	373.4
1/4			3.4	
cb			3.2	
W.			2.8	374.3
		50' S of Catalina		
W			5.4	371.7
cb			5.8	
1/4			6.1	
c			6.4	370.7
1/4			6.5	
cb			7.0	
E			7.2	369.9



	377.07		
	S. L. Catalina Sec C		
E		9.9	367.2
cb		9.6	
1/4		9.0	
c		8.9	368.2
1/4		8.4	
cb		8.1	
W		7.8	369.3
	Sec D		
W		7.8	369.3
cb		8.3	
1/4		8.7	
c		9.2	367.9
1/4		9.6	
cb		10.0	
E		10.4	366.7
	S cb.		
E		10.9	366.2
cb		10.3	
1/4		9.8	
c		9.5	367.6
1/4		9.0	
cb		8.6	
W		8.2	368.9

377.07

S ¼

W	8.8	368.8
cb	8.8	
¼	9.2	
c	10.0	367.1
¼	10.1	
cb	10.5	
E	11.2	365.9

Cr.

E	11.4	365.7
cb	10.7	
¼	10.3	
c	9.9	367.2
¼	9.4	
cb	8.9	
W	8.4	368.7

N ¼

W	8.5	368.6
cb	9.2	
¼	9.7	
c	10.3	367.8
¼	10.6	
cb	11.0	
E	11.7	365.4

377.07

N cb.

E	11.9	365.2
cb	11.3	
¼	10.9	
c	10.5	366.6
¼	10.0	
cb	9.6	
W	8.9	368.2

NL. Sec E.

W	9.3	367.8
cb	10.0	
¼	10.4	
c	10.9	366.2
¼	11.4	
cb	11.8	
E	12.5	364.6

Sec E

E	12.5	364.6
cb	11.8	
¼	11.5	
c	11.2	365.9
¼	10.9	
cb	10.5	
W	10.0	367.1

		377.07		
		50' N of Catalina		
W			12.0	3651
sb	0.60	365.67	12.60	364.47
1/a			1.0	
c			1.6	3636
1/4			1,8	
sb			2.5	
E			3.0	3671
		100' N		
E			5.5	3596
sb			4.9	
1/a			4,4	
c			4.1	3610
1/a			3.6	
sb			3.2	
W			2.5	3626
		150' N		
W			4.9	3602
sb			5.5	
1/c			6.1	
c			6,6	3585
1/a			7.1	
sb			7,5	
E			7.9	3572

		365.07		
		200' N		
E			10,1	3553
sb			9.7	
1/c			9.1	
c			9.0	3561
1/a			8,4	
sb			7.9	
W			7.2	3579
		250' N		
W			9.6	3565
sb			10.2	
1/a			10.6	
c			11.1	3540
1/a			11.5	
sb			12.0	
E			12.5	3571.6
TP	3.7	356.39	11.80	353.77
		287.5 - SL Montezuma		
E			5.2	3511
sb			4.7	
1/a			4.0	
c			3.9	3571.5
1/a			3.4	
sb			2.9	
W			2.3	3541

356.39

S cb.

W	2.6	353.8
cb	3.2	
1/4	3.7	
C	4.1	352.3
1/4	4.2	
cb	4.9	
E	5-4	351.0

S 1/4

E	5.5	350.9
cb	5.0	
1/4	4.4	
C	4.3	352.1
1/4	3.8	
cb	3.5	
W	2.6	353.8

Cr.

W	2.7	353.7
cb	3.4	
1/4	4.0	
C	4.5	351.9
1/4	4.6	
cb	5.3	
E	5.7	350.7

356.39

W 1/4

E	5.8	350.6
cb	5.3	
1/4	4.8	
C	4.5	351.9
1/4	4.1	
cb	3.5	
W	2.8	353.6

N cb

W	2.9	353.5
cb	3.6	
1/4	4.1	
C	4.8	351.6
1/4	4.9	
cb	5.5	
E	6.2	350.2

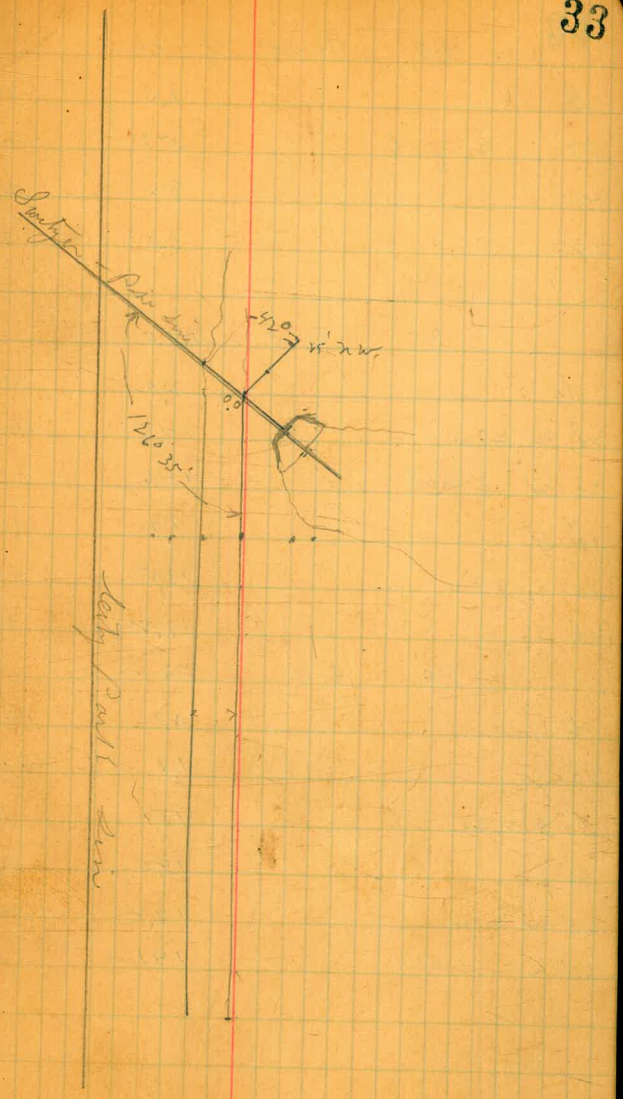
NL Montezuma

E	6.5	349.9
cb	5.8	
1/4	5.2	
C	4.8	351.6
1/4	4.2	
cb	3.7	
W	3.1	353.3

	356.39		
	50' N.		
W	4.4	352.0	
cb	5.1		
1/2	5.7		
c	6.3	350.1	
1/2	6.6		
cb	7.3		
E	7.8	348.6	
	100' N.		
E	9.2	347.2	
cb	8.3		
1/2	7.9		
c	7.4	349.0	
1/2	6.9		
cb	6.2		
W	5.4	351.0	
	150' N.		
W	6.9	349.5	
cb	7.7		
1/2	8.2		
c	8.9	347.5	
1/2	9.4		
cb	9.9		
E	10.3	346.1	

	356.39	
	200' N.	
E	11.9	344.5
cb	11.4	
1/2	10.7	
c	10.2	346.2
1/2	9.6	
cb	9.1	
W	8.4	348.0
	250' N.	
W	10.1	346.3
cb	10.8	
1/2	11.4	
c	12.0	344.4
1/2	12.2	
cb	12.5	
E	13.0	343.4
	300' N = SL Aztec	
E	14.7	341.7
cb	14.3	
1/2	13.6	
c	13.3	343.1
1/2	12.7	
cb	12.3	
W	11.8	344.6

	1,70	96.54		94.84	Bm. SW DF 20
	0,90	84.57	12,52	84.01	
	0,47	72,25	12,73	71.78	
	5,45	69.42	8,28	63.97	
	7,22	75.83	0.81	88.61	
	15.34		34.35		
			15.34		
			19.01		
0.0			1,70	74.13	Bm Hubbot 0.0
5' S on Pile Line			1,8	74.0	
35' S " " "			11,0	64.8	Top of Pile
3' N " " "			1,8	74.0	
23' N " " " Top of Wing Wall			9,4	66.4	
23' N " " " Bottom of Pile			13,7	60.1	
33' N " " " " " Creek			15.1	60.7	
	10' N W of		0,0	75.8	
6			1,65	74.2	
8' S of 6			1,9	73.9	
25' S " "			7,1	68.7	
50' S " "			14,7	61.1	
2' N " "			1,7	74.1	
30' N " " End of Wing Wall			14,2	61.6	
40' N " "			14,5	71.3	



75.85

	25'	N W of	0.0	
b			1,3	74.5
17'	N of b		5.1	70.7
45'	" " "		8,2	67.6
19'	S " "		0,0	75.8
	25'	E of	Sta 0.0	
b			2,0	73.8
20' N	= Toe		14,5	61.3
30' N	in Creek		14.6	61.2
10' S			1,9	73.9
30' S	= Toe		13,5	62.3
40' S			11,2	64.6
	50'	E of	Sta 0.0	
b			2.0	73.8
10' S			1,9	73.9
30' S	= Toe		13,9	61.9
40' S			15,0	60.8
23' N	= Toe		13,2	62.6
33' N	in Creek		14,1	61.7

75.83

	75'	E of	Sta 0,0	
6			1,8	74.0
10' S			1,9	73.9
31' S = Tot			13,7	62.1
41' S			12,2	63.6
13' N			8,5	67.3
21 N = Tot			11.1	64.7
31 N			11,9	63.9
	390	78.03	1,7.0	74.33 Bm Nails
	100'	E of	Sta 0,0	
6			4,0	74.0
20' N = Tot			13,5	64.5
30' N			14,5	63.5
10' S			3,8	74.2
27' S = Tot			12,8	65.2
37' S			12,8	65.2
	125'	E of	Sta 0,0	
6			3,9	74.1
10' S			3,8	74.2
27' S = Tot			12,5	65.5
37' S			13,00	65.0
17' N = Tot			13,1	64.9
27' N			13,0	65.0

~~87.05~~
78.03

150'	℄ of	Sta 0,0		
6		3,9	74.1	
10' S		4,0	~~83.0~~	74.0
26' S = Tar		12,0	~~75.0~~	66.0
36' S		12,3	~~74.7~~	65.7
15' N = Tar		11,6	~~75.4~~	66.4
25' N		11,8	~~75.2~~	66.2
175'	℄ of	Sta 0,0		
6		3,9	~~83.1~~	74.1
12' N = Tar		10,3	~~76.7~~	67.7
42' N		10,6	~~76.4~~	67.4
11' S		3,9	~~83.1~~	74.1
23' S = Tar		11,4	~~75.6~~	66.6
33' S		11,8	~~75.2~~	66.2
200'	℄ of	Sta 0,0		
6		3,7	~~83.3~~	74.3
11' S		4,0	~~83,0~~	74.0
23' S = Tar		11,1	~~75.4~~	66.9
33' S		11,3	~~75.9~~	66.7
14' N = Tar		11,0	~~76.0~~	67.0
24' N		11,3	~~75.7~~	66.7

8703
78.03

	225'	E ℄	Sta 0.0		
6			3,9	~~83.1~~	74.1
14' N = 7ω			10,6	~~76.4~~	67.4
24' N			11,0	~~76.0~~	67.0
10' S			3,8	~~83.2~~	74.2
22' S = 7ω			10,8	~~76.2~~	67.2
32' S			10,5	~~76.5~~	67.5
	250'	E ℄	Sta 0.0		
6			3,8	~~83.2~~	74.2
10' S			4,0	~~83.0~~	74.0
21' S = 7ω			10,6	~~76.4~~	67.4
31' S			10,2	~~76.8~~	67.8
13' N = 7ω			10,3	~~76.7~~	67.7
23' N			10,4	~~76.6~~	67.6
	275'	E ℄	Sta 0.0		
6			3,8.1	~~83.2~~	74.2
14' N = 7ω			10,1	~~76.9~~	67.9
24' N			10,1	~~76.9~~	67.9
10' S			3,7	~~83.1~~	74.1
22' S = 7ω			9,9	~~77.1~~	67.1
32' S			10,2	~~76.8~~	67.8
TP	4,95	79.38	3,60	74.43	

7938

300' E of Sta 0,0			
b		5,3	74.1
11' N = Tar		11,0	68.4
21' N		11,0	68.4
10' S		5,4	74.0
20' S = Tar		10,3	69.1
30' S		10,5	68.9
325' E of Sta 0,0			
b		5,1	74.3
9' S		5,7	74.2
20' S = Tar		10,1	69.3
30' S		10,5	68.9
11' N = Tar		10,5	68.9
21' N		10,6	68.8
350' E of Sta 0,0			
b		5,4	74.0
10' N = Tar		9,8	69.6
20' N		9,9	69.5
10' S = Tar		5,2	74.2
20' S = Tar		10,3	69.1
30' S		10,1	69.3

79.38

	375'	E y	Sta 0,0	
b			5,4	74.0
10' S			5,2	74.2
18' S = Tar			9,3	70.1
28' S			9,4	70.0
8' N = Tar			9,9	69.5
18' N			9,8	69.6
	400	E y	Sta 0,0	
b			5,1	74.3
6' N = Tar			8,7	70.7
16' N			9,1	70.3
10' S			5,3	74.1
17' S = Tar			8,3	71.1
27' S			8,0	71.4
	425	E y	Sta 0,0	
b			5,4	74.0
11' S			5,3	74.1
13' S = Tar			6,3	73.1
23' S			6,5	72.9
2' N = Tar			6,0	73.4
12' N			6,3	73.1

79.38

4.36' E

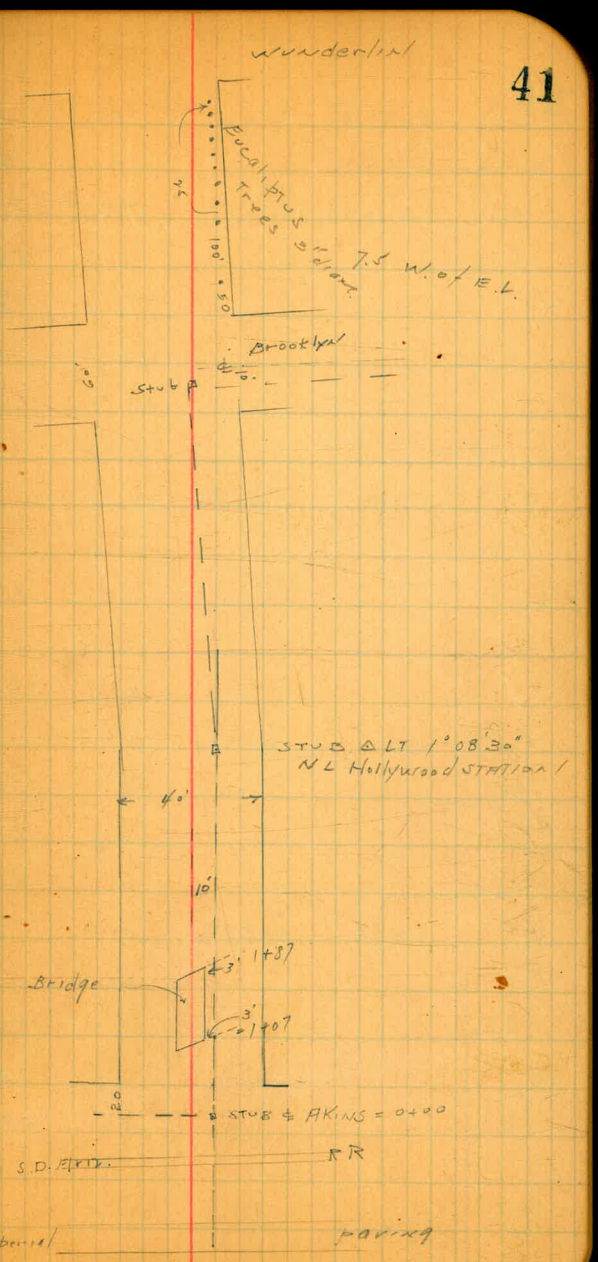
		Hub
6	5.0	74.4
10' S	5.1	74.3
1' S	5.7	73.7
2' S	5.8	73.6
2' N	5.4	74.0
	5.1	74.3
TP	4.94	74.91

on Hub

Cross Section of Water Line 6" 16/36
on 60th ST Imperial to Brooklyn
10' EAST of ℄ 60th = 40' wide

Moore Walker Preston Mac.

Nwsp'ke Akins Fergus	1.00	180.74		179.74
00-167			3.7	177.0
-159			7.6	173.1
-157.5	Sedge paving		7.90	172.84
-134.3	N. "		7.66	173.08
-100			8.4	172.3
-85			8.4	172.3
-80			9.7	171.0
-71 ℄ SDAriz. RR			8.9	171.8
-50			10.1	170.6
0+00 = T.P. Stub	9.69	179.30	11.13	169.61
+50			10.3	169.0
+69			10.0	169.3
+90			10.6	168.7
Floor bridge S end			7.9	171.4
1+07 St bridge			12.6	166.7
+08			15.6	163.7
+19			16.5	162.8
+28			13.6	165.7
+87 = N℄ Bridge			12.0	167.3
Floor elev. bridge N. end			4.96	174.34
+91			7.5	177.8
N +75			7.N	172.1
+57			0.5	178.8
T.P.	1.93	179.73	0.00	179.30



		19+.73		
2+87			10.3	181.9
3+10			9.5	182.7
+30			10.0	182.2
+70			3.7	188.5
4			3.0	189.2
+50			2.1	190.1
5			1.+	191.0
5+39 ±	1°05'30.17 STUB		0.39	191.84
T.P.	13.1+	+0.96	0.39	191.8+
+60			1+.6	192.4
6			9.9	195.1
+50			5.4	199.6
7			0.6	204.4
T.P.	13.1	+18.03	0.0+	204.9+
+50			9.5	208.5
8			5.8	212.2
+50			+.5	215.5
T.P.	1+.93	+3086	0.10	+17.93
9			1+.3	218.6
+50			9.+	221.7
10			6.9	224.0
+50			3.6	227.4
11			1.9	229.0
T.P.	1+.83	+3.56	0.13	+30.73
+50			1+.6	231.0

		+3.56		
1++00			10.9	232.7
+51.8 = 10'S of Z Brooklyn			8.30	235.26 ON STUB
Set BM spike Sw/pole Brooklyn 60+0			7.++	+36.31

Cross Section of 60th 40' wide
Brooklyn to Winnebago 5' sidewalks
7/4 1/43

+43.56

NL Brooklyn=00

W/		4.9	238.7
CB		5.4	238.2
1/4		5.7	237.9
C		5.6	238.0
1/4		5.8	237.8
CB		7.5	236.1
E		8.0	235.6
+5		8.1	235.5
	25'N		
-5		6.6	237.0
E		6.1	237.5
CB		5.3	238.3
1/4		3.9	239.7
C		3.6	240.0
1/4		3.8	239.8
+5		4.5	239.1
CB		3.5	240.1
W/		2.8	240.8
	50'N		
W/		0.4	243.2
CB		1.4	242.2
+5		2.5	241.1
1/4		1.6	242.0

Moore
4/16/26 +43.56 See page 41 for trees

C		1.6	242.0
1/4		2.1	241.5
CB		3.7	239.9
E		4.2	239.4
+5		4.6	239.0
T.P.	12.69	56.06	0.19 +43.37
	75'N		
-5		16.0	240.1
E		15.1	241.0
CB		14.5	241.6
1/4		12.4	243.7
C		11.8	244.3
1/4		12.0	244.1
CB		11.8	244.3
W/		10.8	245.3
	100'N		
W/		7.4	248.7
CB		8.2	247.8
+3		9.3	246.8
1/4		9.3	246.8
C		9.0	247.1
1/4		9.2	246.9
CB		11.9	244.2
E		12.8	243.3
+5		13.5	242.6

		256.06	π			256.06	π	
	175'N							60+ft
-5'			10.6	245.5	1/4			2.0 254.1
E			9.9	246.2	C			2.4 253.7
cb			9.0	247.1	1/4			2.5 253.6
+N			8.7	247.4	TP 12.78		N68.68	0.16 N55.90
1/4			6.7	249.4	+5			12.6 256.1
C			6.6	249.5	cb			12.5 256.2
1/4			7.1	249.0	W			12.0 256.7
+N			7.1	249.0		200'N		
cb			4.8	251.3	W			9.9 258.8
W			4.1	252.0	cb			10.4 258.3
	150'N				+3			11.1 257.6
W			1.0	255.1	1/4			12.8 255.9
cb			1.6	254.5	C			12.7 256.0
+5'			4.4	251.7	1/4			12.6 256.1
1/4			4.6	251.5	cb			12.9 255.8
C			4.6	251.5	E			13.9 254.8
1/4			4.3	251.8	+5			14.5 254.2
cb			5.9	250.2		225'N		
E			6.7	249.4	-5'			12.0 256.7
+5			7.5	248.3	E			11.4 257.3
	175'N				cb			10.7 258.0
-5			4.4	251.9	1/4			10.8 257.9
E			3.1	252.7	C			10.7 258.0
cb			2.6	253.5	1/4			11.2 257.5
					+5			8.7 260.0

	26868			
cb			8.7	260.0
w/			8.0	260.7
	250'N			
w/			5.9	262.8
cb			6.5	262.2
+w			6.6	262.1
1/4			8.6	260.1
c			8.8	259.9
1/4			8.7	260.0
cb			8.9	259.8
E			9.4	259.3
+5			9.9	258.8
	275'N			
-5			7.9	260.8
E			7.4	261.3
cb			7.1	261.6
1/4			6.9	261.8
c			6.7	262.0
1/4			6.9	261.8
+w			6.6	262.1
cb			5.1	263.6
w/			4.4	264.3
	300'N			
w/			3.N	265.5
cb			3.9	264.8

	26868			60+6
1/4			5.N	263.5
c			4.9	263.8
1/4			5.1	263.3
cb			6.0	262.7
E			6.6	262.2
+5			7.0	261.7
	375'N			
-5			4.7	264.0
E			4.4	264.3
cb			4.1	264.6
1/c			3.6	265.1
c			3.1	265.3
1/c			3.6	265.1
cb			2.8	265.9
w/			N.1	266.6
	350'N			
w/			0.0	268.7
cb			0.6	268.1
1/c			1.6	267.1
c			1.5	267.2
1/4			1.7	267.0
cb			N.4	266.5
E			N.3	266.4
+5			N.6	266.1
T.P	17.98	N81.57	0.09	N68.59

281.57

375'N

-S	13.7	267.9
E	13.5	268.1
cb	13.0	268.6
1/4	13.0	268.6
c	12.7	268.9
1/4	12.7	268.9
cb	12.0	269.7
W	11.4	270.2

400'N

W	9.5	272.1
cb	10.0	271.6
1/4	10.4	271.2
c	10.7	270.9
1/4	11.1	270.4
cb	11.3	270.3
E	11.6	270.0
+S	11.6	270.0

435.5 + St Wunderlin

E	9.1	272.4
cb	9.0	272.6
1/4	8.6	273.0
c	8.0	273.6
1/4	7.7	273.9
cb	7.1	274.4

281.57

60+h

W	6.9	274.7
Wunderlin Set Spike W of pole 60th	1.81	279.76
T.P 11.95' W9 W8W	0.70	280.87
Fencepost check to a Nail & SE Cor Body + 60th	6.70	W86.1 W87.7

Water Line on Brooklyn 60' wide
10' S of ℄

SW Brooklyn & Garth	2.7	238.48	
			236.31
0+00 = 10' E of ℄ of 60th			
		3.2	235.26
+50		5.5	233.0
+75		6.5	232.0
1		8.7	229.8
+50		10.8	227.7
2		11.3	227.2
+50		10.7	227.8
3		7.5	231.0
+50		4.9	233.6
+97.8 = 10' E of ℄ of 61st		2.6	235.9
T.P.	12.3	250.68	
		0.1	238.3
4+50		12.2	238.5
5		9.4	241.3
+50		10.2	240.5
6		11.5	239.2
+50		10.4	240.3
7		9.2	241.5
+50		6.3	244.4
check to spike SW Fergus & Brooklyn		6.36	244.32 244.40
7+73.6 = 10' E of ℄ of Fergus		5.3	245.4
8+00		3.7	247.0
+50		2.7	248.0
9+00		1.6	249.1
9+50		0.6	250.1

250.68

T.P.	6.95	257.50	
		0.13	250.55
10+00		6.1	251.4
+50		6.1	251.4
11		6.9	250.6
+50		8.7	248.8
+70		9.3	248.2
12		12.4	245.1
+30		16.3	241.2
+35 = Abstract 10' E of ℄		16.8	240.7
+40 6" hore somewhere		17.3	240.2
+50		12.1	245.4
13		6.5	251.0
+50		2.6	254.9
14		0.0	257.48
T.P.	12.83	270.31	
		11.4	258.9
+50		6.7	263.6
15		2.3	268.0
+50		0.12	270.19
T.P.	9.33	279.52	
		8.0	271.5
+80		6.4	273.1
16		5.2	274.3
+30 = WL 63d		6.4	273.1
+45		6.4	273.1 Just installed
+67 = New Water Main		7.70	271.82 271.78
T.P. 3 mark SW Brooklyn 63d	1.06	271.88	
17		1.2	271.7

		27.88		
5 +50			8.8	270.1
18			4.2	268.7
+50			5.6	267.3
19			6.2	266.7
+50			6.1	266.8
20			5.3	267.6
+50			5.2	267.7
+97 = 10' E of ℄ of STORK			5.4	267.5
21 +50			6.1	266.8
22			7.2	265.7
+50			9.4	263.5
T.P.	0.69	261.11	1.76	260.42
23			1.7	259.4
+50			7.1	254.0
+80			10.8	250.3
24			12.3	248.8
T.P.	0.23	248.62	1.27	248.39
+50			3.0	245.6
+80			4.6	244.0
25			6.9	241.7
+33 = ℄ of 64th 30 wide			11.6	237.0
+50			14.5	234.1
T.P.	9.4	244.83	12.93	235.69
+75			17.1	227.7
+85			17.8	227.0

		248.3	Brooklyn water	
26			12.0	232.8
+25			1.7	243.1
T.P.	1.21	256.69	0.35	244.48
+50			4.9	251.8
T.P.	11.79	268.18	0.30	256.39
+75			10.3	257.9
27			13.2	263.0
+25			2.0	266.2
+38			1.0	267.2
T.P.	7.19	275.37	0.00	268.18
+53 ℄ Cypress Lane approx.			5.3	270.1
+65			5.2	270.2
+87 Top wooden water Main			8.2	267.2 approx 30" Main
check to 3 nails Sulphole Brooklyn Gas Co			6.46	268.91 268.88

WATER LINE 10' E of ℄ of 6E mdST 60' wide

Imperial to Brooklyn

		12.69	+00.45	187.56
17	S of ℄ Atkins = 0+00	0.0		200.3
	+4	4.9		195.4
	+8 = St paving	7.3		196.0
	+26.4 = NL ✓	4.4		196.01
	+70	6.1		194.2
	+95 ℄ SOdAtkins RR	7.4		192.9
	+25	10.6		189.7
	+50	13.0		187.3
	+70 = ℄ Atkins	13.6		186.7
	T.P. 40	12.69	191.96	187.56
		5.4		186.8
	+50	7.5		187.5
	+75	5.5		186.5
3	Sedge creek	8.4		183.8
	+41 N	8.7		183.3
	+43	6.6		185.4
	+50	6.6		185.4
4		4.8		187.2
	+50	3.3		188.7
	T.P. 11.41	0.03	+03.40	191.93
5		9.8		193.6
	+50	3.5		199.9
	T.P. 12.41	0.34	+15.33	+03.06
6		11.1		204.2

215.33

6+50		7.4		208.1
7		3.7		211.6
	T.P. 11.96	0.39	+14.94	
	+50	11.4		215.5
8		7.4		219.7
	+50	2.8		224.1
	T.P. 13.04	0.09	+39.83	+06.81
9		10.6		229.2
	+50	6.8		233.0
10		5.4		234.4
	+50	6.0		233.8
11		7.3		232.5
	+50	6.1		233.7
12		2.0		237.8
	T.P. 8.94	0.74	+48.35	+39.41
	+38 = 10' S of ℄ of Brooklyn	7.3		+41.0
	℄ Hub gone?		Approx.	
	on ground at Sta. 12+30 Brooklyn Line	6.94		+41.4 +41.4

See page 47

WATER LINE 10' E of ℄ of FERGUS ST 60' wide
IMPERIAL to BROOKLYN

Nurspike Atkins Fergus	6.39	186.13		179.74
160' S of ℄ Atkins = Otoo = SL paving			3.87	182.26
+18.5 = NL			3.77	182.36
+25			4.2	181.9
+30			6.9	179.2
+45			9.2	176.9
+65			9.3	176.8
+70			5.3	180.8
+84.5 = ℄ SD Ave RR			3.3	182.8
+93			3.2	182.9
1+08 = Sedge creek			11.8	174.3
+34			10.5	175.6
+32 Bank creek			6.7	179.7
1+60 = ℄ Atkins			6.8	179.3
			6.0	180.1
+50			2.6	183.5
T.P.	14.25	198.16	0.22	185.91
3			10.5	187.6
+50			5.7	192.4
4			2.2	195.9
+50			0.5	197.6
TP	10.38	208.08	0.46	197.70
5			8.2	199.8
+50			6.9	201.2
6			5.4	202.7

Moore 6/18/46 208.08

+50			2.1	206.0 5' Lt 1' Lower
TP	12.85	220.23	0.5	207.57
7			11.8	208.6 5' Lt .5 Lower
+50			7.7	212.7
8			5.0	215.4 5' Lt .5
+50			0.8	219.6
TP	12.86	233.14	0.1	220.28
9			9.9	223.2
+50			6.1	227.0
10			4.0	229.1
+50			1.8	231.3
T.P.	11.40	244.17	0.37	233.77
11			10.0	234.2
+50			6.9	237.3 5' Lt 1.80 Lower
12			4.0	240.2 1.0
TP	4.76	248.56	0.37	243.80
+50			4.2	244.4 1.2
13 + 95 = 10' S of ℄ Brooklyn			3.3	245.3
Check BM Brooklyn Fergus			4.27	244.29 244.70
T.P.	1.08	238.37	1.27	237.29

WATER LINE 10' E of ℄ of 61st ST

Brooklyn to Imperial

6|8|.6		x38.37 ℄	from last page (50)	
10's of ℄ Brooklyn = 0+00			2.3	236.1
0 +50			6.0	232.4
1			9.5	228.9
+50			13.2	225.2
T.P.	0.80	226.47	12.90	223.57
2			3.8	222.5
+50			6.0	220.3
3			8.4	217.9
+50			11.3	215.0
+75			12.5	213.8
T.P.	0.97	214.71	12.53	213.74
4			2.8	211.9
+45			5.8	208.9
+70			10.2	204.5
+95			10.9	203.8
5 +30			9.3	205.4
+50			10.0	204.7
6			11.8	202.9
T P	1.30	203.25	12.80	201.91
+50			2.4	200.9
7			5.4	197.9
+18.3	= N.L Hollywood STATION		5.9	197.4
+50			6.2	197.1
8			8.1	195.2

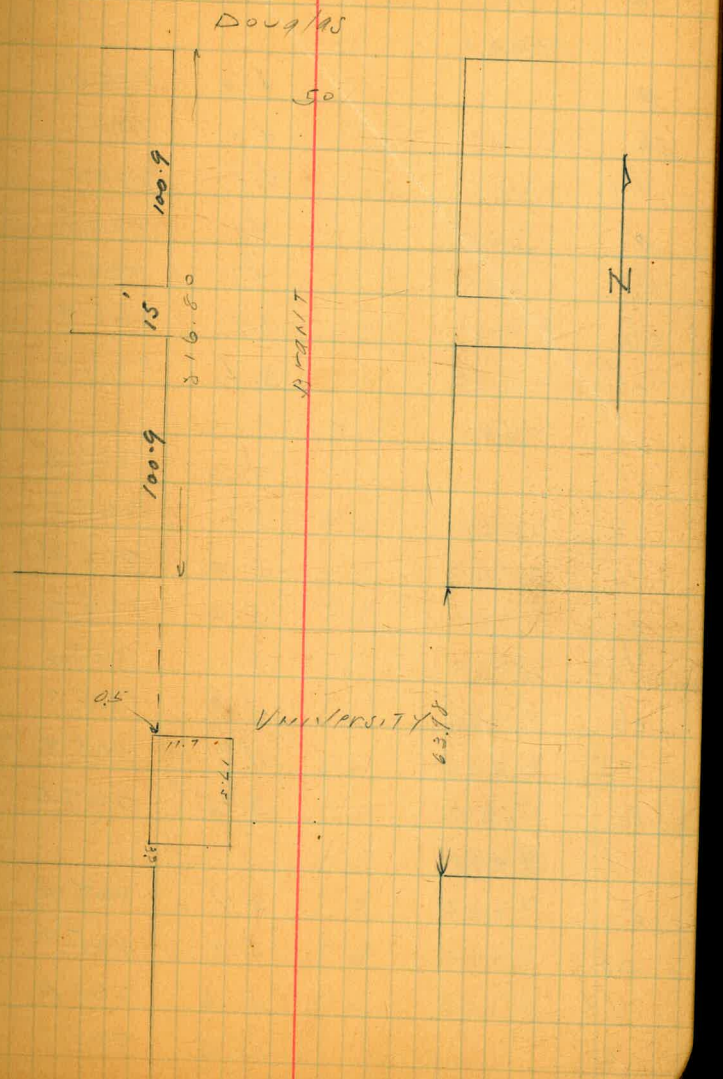
203.25

8 +50			9.6	193.7
9			10.6	192.7
+40			12.0	191.3
T.P. 0.9		191.58	12.59	190.66
+75			6.4	185.2
10			11.5	180.1
T.P. 1.65		180.39	12.84	178.74
+50			5.5	174.9
11			6.5	173.9
+50			6.7	173.7
+60			6.6	173.8
+65 N edge creek			11.0	169.4
+93.2 = ℄ ATKINS (on the east)			10.73	169.66 on STUB
12 +20			10.1	170.3
+28 S bank creek			6.8	173.6
+50			4.4	176.0
T P 7.35		183.51	4.23	176.16
+68.9 = ℄ SD ATH & SF RR (RW)			6.2	177.3
+75			7.1	176.4
+80			5.2	178.2
13			4.7	178.8
+33 = N edge paving			5.03	178.48
13 +51.5 = ℄			5.08	178.43
ATH, NS ch to BM Fergus			3.81	179.70 179.74

Cross Section of Brant St -50' wide, 10' cbs
Douglas to Univ. Ave

	2.57	270.57	268.00 Douglas Brant
SL Douglas = 0 0			
w/		3.1	267.5
cb	Top cb	3.49	267.08
gut		4.0	266.6
1/4		3.9	266.7
c		3.8	266.8
1/4		4.0	266.6
gut		4.0	266.6
cb	Top cb	3.48	267.09
E		2.9	267.4
	0+07		
E		2.5	268.1
cb		2.5	268.1
1/4		3.5	267.1
c		3.5	267.1
1/4		2.3	267.3
cb		3.0	267.6
w/		2.6	268.0
	0+50		
w/	on lawn	2.7	267.9
cb		2.9	267.4
1/4		3.0	267.6
c		3.1	267.5

Plotted 6/21/71 J.P.



1/4		
cb	3.2	267.2
E	3.3	267.3
	3.0	267.6
1+00		
E	4.0	266.6
cb	4.3	266.3
1/4	4.1	266.5
c	4.1	266.5
1/4	4.1	266.5
cb	3.9	266.7
W	3.4	267.2
1+50		
W	4.6	266.0
cb	5.1	265.5
1/4	5.0	265.6
c	5.0	265.6
1/4	5.1	265.5
eb	4.9	265.7
+5	4.7	265.9
E	3.6	267.0
1+95		
E	3.4	267.2
cb	5.2	265.6
1/4	5.6	265.0
c	5.5	265.1

1/4	5.5	265.1
cb	5.7	264.9
45	5.4	265.2
W	4.7	265.9
2+00		
W	5.0	265.6
cb	5.7	264.9
1/4	5.5	265.1
c	5.5	265.1
1/4	5.7	264.9
cb	5.2	265.4
E	4.2	266.2
9+05		
-5	9.5	261.1
E	7.9	262.7
+2	7.9	262.7
+6	8.1	262.5
cb	6.4	264.2
15	5.3	265.3
1/4	5.5	265.1
c	5.8	264.8
1/4	5.7	264.9
cb	5.9	264.7
W	5.4	265.2

		270.57			
	9+16.80	= N L Univ Ave =			63.95 wide
W			5.7	264.9	10 cb
cb			6.1	264.5	11 1/4
1/4			5.8	264.8	
C			5.9	264.7	
+5			5.6	265.0	
1/4			6.3	264.3	
cb			8.5	262.1	
+3			10.4	260.2	
EL			13.7	256.9	
+10			15.3	254.3	
T.P.	3.13	265.92	7.78	262.79	
	N cb	2+76.8			
-15			17.5	248.4	
-07			17.2	248.7	
E			14.1	251.8	
+7			11.4	254.5	
cb			10.0	255.9	
1/4			6.2	259.7	
C			1.3	264.6	
1/4			1.5	264.4	
cb			1.6	264.3	
W			1.4	264.5	
	N 1/4	2+38.05			
W			1.3	264.6	

		265.92		Brant
cb			1.3	264.6
1/4			1.8	264.1
C			2.5	263.4
+5			2.6	263.3
1/4			4.0	261.9
cb			9.0	256.9
+6			11.6	254.3
+7			13.2	252.7
E			14.7	251.2
+10			20.1	245.8
+20			25.2	240.7
	℄ Univ.	2+49.3		
-20			26.0	239.9
-16			24.5	241.4
-15			23.2	242.7
E			11.8	254.1
cb			7.3	258.6
+5			4.1	261.8
1/4			4.1	261.8
+3			4.6	261.3
C			2.1	263.8
1/4			1.5	264.4
cb			0.9	265.0
W			1.1	264.8

26.5.9r

S 1/4 2+60.55

w/	1.1	r64.8
cb	1.0	r64.9
1/4	2.3	r63.6
C	3.0	r62.9
+r	6.3	r59.6
1/4	5.8	r60.1
+5	4.5	r61.4
cb	6.8	r59.1
E	12.5	r53.4
+20	24.0	r41.9
+30	30.0	r35.9

S cb 2+71.8

-30	31.3	r34.6
-20	24.1	r41.8
E	14.6	r51.3
cb	9.7	r56.2
+5	7.0	r58.9
1/4	7.3	r58.6
C	8.7	r57.2
+r	8.7	r57.2
+4	4.5	r61.4
cb	3.4	r62.5
w/	1.5	r64.4

26.5.9r

SL Unk. Fno 2+81.8

w/	2.4	r63.5
cb	5.5	r60.4
1/4	9.6	r56.3
+5	10.5	r55.4
C	9.9	r56.0
1/4	9.3	r56.6
cb	12.5	r53.4
E	18.1	r47.8
+30	32.0	r33.9

8' S of SL 2+89.8 = NL of residence

-30	31.0	r34.9
E	23.2	r42.7
+r	18.0	r47.9
cb	14.4	r51.5
1/4	14.5	r51.4
C	11.5	r54.4
1/4	13.1	r52.8
+5	12.5	r53.4
cb	10.1	r55.8
w/	3.9	r62.0

20' S of SL Unk. Fno = 3+01.8

w/	5.5	r60.4
+8	11.4	r54.5
cb	15.7	r50.2

Brant

		265.9N		Brant
1/4			15.N	250.7
+4			14.9	251.0
C			16.8	249.1
+3			20.0	245.9
1/4			20.3	245.6
CB			21.5	244.1
E			23.4	242.5
+3.5	= ℄ residence Floor elev.		23.6	242.3
TP	6.9	270.7	1.40	269.5
check to BM			2.71	268.00 268.00

Plotted 6/21/71 Burgster

Cross Section of Fill on West side of 29th ST South of Juniper ST 10' east of 29th & Juniper

NE Corner	0.03	x70.16		270.13
T.P.	1.40	265.81	5.75	x64.41

150' S of SE Juniper = Sewer curb & sidewalk

W c6	top cement	1.48	2643.3
W L		1.3	2645

175' S

W c6		1.7	2641
W L		x.0	2638
+11		9.0	2568

191' S

W c6		x.3	2635
W L		4.7	261.1
+30		xx.3	2435

x00' S = North end of curb

W c6	Top cement	1.8x	2639.9
W L		5.x	2606
+3x		x7.x	238.6

xx0' S

W c6	top cement	1.95	2638.6
W L		4.8	261.0
+xx0		x1.5	2443
+40		30.x	235.6

x35' S

W c6	top cement	x.15	2636.6
W L		5.8	260.0

4/x/x7 2658.1

Moore

W L + xx		x3.0	2428
" +35		x7.7	2381

x40' S

W c6	top cement	x.1	2637.0
W L		5.8	2600
+15		14.7	2511
+35		x7.6	2382

x45' S

W c6	top cement	2.07	2637.4
W L		4.0	2618
+15		14.3	2515

250' S

W c6	top cement	x.07	2637.4
W L		3.5	2623
+10		11.1	2547

x68' S = North end of sidewalk (cement)

Web	top cement	x.1x	2636.9
W L		3.1	267.7

Moore Curb Levels on
5/14/29 Torrence betw Pringle & Mission Hills Blvd

Torrence = { 50' wide 12' curbs / 26' Roadway

Torrence is graded and accepted. Private Contract.

Bench 240 North of Pringle

Top Hub	11.5	248.78	237.28	Pringle & Torrence

N.L. Pringle = 00

W cb	Top cement Return	12.84	235.94
E cb	" " "	10.82	237.96
	20' N		
E eb	Top dirt curb	9.1	239.7
W eb	" " "	10.0	238.8
	40' N		
W eb		7.8	241.0
E eb		7.0	241.8
	60' N		
E cb		5.8	243.0
W eb		6.2	242.6
	80' N		
W eb		5.6	243.2
E eb		5.0	243.8
	100' N		
E eb		4.8	244.0
W eb		5.3	243.5
	120' N		
W eb		5.7	243.1
E eb		5.1	243.7

PLOTTED 5/14/29 APK

248.78

140' N

E cb		6.0	242.8
W cb		6.7	242.1
	160' N		
W eb		8.3	240.5
E cb		7.7	241.1
	200' N		
E cb		11.7	237.1
W eb		12.5	236.3

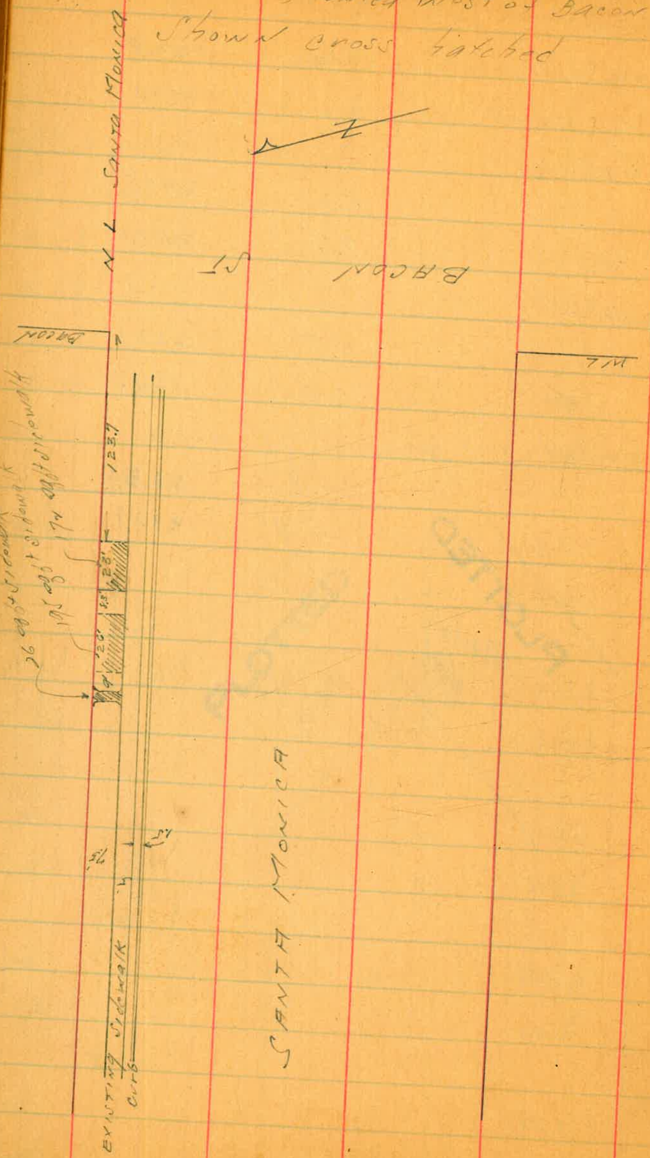
240' N 35th section is 419.7

W cb		14.9	233.9
E cb		14.9	233.9

PLOTTED 5/14/29 APK

5/4/41 Moore

Sidewalk to be excepted on Santa Monica west of Bacon St shown cross hatched



Bliss Levels on Improvements on
10/7/21 Brant St. Douglass to Univ.

1	2.28	270.28		268.00
				270.3
0+24			2.10	268.2
0+65			2.59	267.7
0+66			2.79	267.5
0+85			2.88	267.4
0+86			2.56	267.7
0+8			3.29	267.0
0+91			2.27	268.0
T.P.	5.39	270.32	5.35	264.93
	Level Taken on Univ.			
0+00	West Prop Line of Brant			270.3
0+43			9.09	266.2
0+64			9.91	265.9
0+98			5.25	265.0
1+51			6.33	264.0
Side walk West End of Univ			11.12	259.2
Porch of House		West End of Univ	10.16	260.2
BM.			2.33	267.99

Side walk on West side Brant
" " " " " "
Side Walk East Side
Auto Driveway West side
Step of Residence East side
" " " West Side
Porch of residence

Side walk N. Side Univ
Auto Driveway North Side Univ
Sidewalk N Side
" " "

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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.		