

1320

1957

LEVEL BOOK

No. 389P

Two reduced to pp 63 6/2/20 M.H.

ENGINEERING DEPARTMENT,
CITY OF SAN DIEGO,
CALIFORNIA.

MICROFILMED

DEC 42 1964

ENGINEERING DEPARTMENT,
CITY OF SAN DIEGO,
CALIFORNIA. *11/6/52 M.L.H. 17.00 S.L.IMP*

Our Leather Bound Engineers Note Books are carried in the following rulings:

- No. 380 LEVEL BOOK. Left and Right Hand Page the same as Left Hand Page of this Book.
- No. 382 FIELD BOOK. Left Hand Page as in this Book, Right Hand Page 4 x 4 to the inch, Center Line Red.
- No. 384 MINING TRANSIT BOOK. Left Hand Page as in this Book, Right Hand Page 8x8 to the inch, Center Line Red.
- No. 385 FIELD BOOK. Left Hand Page as in this Book, Right Hand Page 8 vertical and 4 horizontal lines to the inch, Center Line Red.

We also carry the Note Books listed above, bound in extra strong Fabri-Hide (otherwise the same quality of book), which can be furnished at a somewhat lower price.

In ordering Fabri-Hide covered books, add the letter "F" to catalog number.

THE FREDERICK POST CO.
ENGINEERING and DRAFTING SUPPLIES
IRVING PARK STATION
CHICAGO, ILL.

X sec	33 rd ST	Ash to A	1
Topog	A to B	East of 33 rd ST.	9
X sec	Alley Blk 2	Blairs Highland	10
" "	" " 7	" "	13
" "	Nutmeg	29 th to Dale	16
" "	29 th	Nutmeg South	22
Levels	Paving	Intersection Columbia-Quince	22
" "	" "	Quince-India	29
" "	" "	Columbia-Quince	31
X sec	Alley Blk 36	Teralta	32
" "	" "	N.W. end Ludington Place	35
" "	" "	Intersects 33 rd + Collier.	43
" "	" "	Felton + Collier.	43
" "	" "	34 th + Collier.	45
" "	Alley 147	Univ. Hts Howard + Polk	49
" "	" "	Nutmeg 29 to Dale	57
" "	Sunset Cliffs Blvd.	Voltaire to Ph. Loma Blvd.	59
" "	38 th	National to Alpha	64

0.0 to 1.2 6/20/20

33rd St

139.51

+15	12.0	127.5
11	11.0	128.5
8	10.5	129.0
1/2	10.0	129.5
Cb	9.8	130.3
W = N Line 33rd Prod From N.	8.1	131.4
+15	5.8	133.7
50' N of N.L. BST		
-15	1.5	138.0
11	2.0	136.5
Cb	4.0	135.5
1/2	4.9	134.6
8	5.4	134.1
1/4	6.5	133.0
Cb	8.9	130.8
18	11.2	128.3
F	14.3	125.2
+15 = Bottom Gubek	15.2	124.3
+11	15.0	124.5
+18	13.0	126.5
+20	11.0	128.5
+15	9.8	130.3
+5.5 = N.L. 33rd from South	6.8	132.7
75' N		
-5.5 = N.L. 33rd	6.6	132.9
-10	9.6	130.3

139.51

-55	T	T	12.2	126.3
+30 = Bottom Gubek			13.8	125.7
-20			12.0	127.5
-10			10.4	129.1
F			7.3	132.2
Cb			5.9	133.6
1/4			5.2	134.3
8			3.6	135.9
1/4			2.7	136.8
Cb			1.6	137.9
11		5	0.6	138.9
+15			0.0	139.5
TP	12.21	15.72	0.0	139.51
100' N				
-15			9.7	142.0
11			11.2	140.5
Cb			12.4	139.3
1/4			13.4	138.3
8			14.4	137.3
1/4			15.2	136.5
Cb			16.1	135.6
F			18.5	133.2
18			20.4	131.3
+20			21.0	130.7
+20			23.0	128.7
+25 = Bottom			25.1	126.6

2

33rd St.

151.72

+40	22.0	129.7
+50	19.3	132.4
+55.2 = N.L. 33rd from S	18.1	133.6
185' N		
-55.3	18.1	133.6
-49	20.5	131.2
-47	23.5	128.2
-40 = Bottom + Junction of Gulch	23.6	128.1
-33	23.5	128.2
-30	23.5	128.2
-28	21.6	130.1
-15	19.2	132.4
F	15.7	136.0
Cb	14.1	137.6
1/4	13.2	138.4
1/2	12.4	139.3
1/4	11.6	140.1
Cb	10.6	141.1
N	9.9	142.0
150' N		
N	7.9	143.8
Cb	8.8	142.9
1/4	9.7	142.0
1/2	10.8	140.9
1/4	12.0	139.7
Cb	13.1	138.6

151.72

3

F	14.4	137.3
+44	16.8	134.9
+25	21.0	130.7
+27 = Bottom Gulch	22.2	129.5
+30	20.1	131.6
+40	19.5	134.2
+51 = Rim of Man Hole	16.7	135.0
+55.4 = N.L. 33rd from S	17.0	134.7
+58 = Bottom Gulch	22.0	129.7
170' N		
-55.5	11.8	139.9
-47	13.7	139.0
-40	14.2	137.5
-30	16.7	135.0
-25 = Bottom Gulch	20.6	131.1
-21	20.5	131.2
-20	18.7	133.0
F	13.7	138.0
Cb	12.0	139.7
1/4	10.3	141.4
1/2	8.4	143.3
1/4	7.3	144.4
Cb	6.5	145.2
N	5.4	146.3
200' N		
N	3.6	148.1

151.72

Cb	19	146.8
1/2	56	146.1
2	79	143.8
1/4	102	141.5
Cb	124	139.3
F	146	137.1
+13	179	133.8
+15 = Bottom Galech	200	131.7
+18	169	134.8
+30	132	138.5
+40	95	142.2
+50	76	144.1
+506 - 1/2 33rd from S	72	144.5
	225 H	
-559 - 1/2 33rd from S	20	147.7
-40	56	146.1
-25	70	144.7
-18	108	140.9
-11	140	137.7
-7 = Bottom Galech	174	134.3
-3	146	137.1
F	145	137.2
Cb	125	139.2
1/4	104	141.3
2	72	144.4
1/2	52	146.5

151.72

4

Cb	36	148.1
1/2	25	149.2
	250 H	
1/2	18	149.9
Cb	31	148.6
1/4	56	146.1
2	89	142.8
1/4	117	140.0
+5 = Bottom Galech	142	137.5
Cb	117	140.0
F	91	142.6
+15	63	145.4
+10	22	149.5
+559 - 1/2 33rd from S	14	150.3
	1204	116.15
	275 H	
-56 - 1/2 33rd from S	87	153.4
-40	98	152.4
-30	104	151.7
-15	136	148.5
F	172	144.9
Cb	216	140.5
+3 = Bottom Galech	251	137.0
+5	212	140.9
1/4	201	142.0
2	185	143.6

16215

1/4		15.3	146.8	
cb		13.4	148.7	
H		11.6	150.5	
	300 ft = 5/2 H St			
H		10.3	151.8	
cb		12.1	150.0	
1/4		13.9	148.2	
1/2		16.2	145.9	
1/4		18.2	142.9	
+7 Bottom		21.7	140.4	
cb		18.3	143.8	
+4		16.5	145.6	
F		15.5	146.6	
+20		11.4	150.7	
+10		8.0	154.1	
+56.7 = H 33rd from S		5.3	156.8	
TP	10.04	171.7	1.02	161.3
	H 1/2 St			
-56.5 = H 33rd from S		3.4	167.7	
-3.5		7.0	164.2	
-20		14.5	156.7	
F		22.0	149.2	
cb = Bottom Gulch		24.7	146.5	
1/4		26.2	150.9	
1/2		19.1	152.1	
1/4		16.8	154.4	

17117

5

cb		14.8	156.4
H		13.4	157.8
	25 ft of H 1/2 St		
H		11.2	160.0
cb		12.9	158.3
1/4		14.6	156.6
1/2		17.0	154.2
1/4		19.0	152.3
cb = Bottom Gulch		23.0	148.2
+5		20.1	151.1
F		19.8	151.4
+13		16.8	154.4
+15		10.2	161.0
+33		5.8	165.4
+56.6 = H 33rd from S		1.3	169.9
	50 ft of H 1/2 St		
-56.7 = H 33rd from S		0.0	171.2
-10		0.5	170.7
-25		4.9	166.3
-15		8.8	162.4
F		14.0	157.2
cb = Bottom Gulch		18.5	152.7
1/4		18.2	153.0
1/2		17.0	154.2
1/4		12.8	158.4
cb		11.3	159.9

17117

N		8.7	162.5
	75' N of N.L. 75th		
N		74	163.8
Cb		94	161.8
1/4		120	159.2
2		151	156.1
1/4		149	156.3
Cb		146	156.6
F		132	157.9
+20		97	161.5
TP	1278	182	169.35
+40		106	171.5
+56.8 = N.L. 33rd from S		80	174.1
	100' N		
-56.9 = N.L. 33rd from S		60	176.1
-45		76	174.5
-30		160	166.1
-15		194	162.7
F		215	160.6
Cb		228	159.3
1/4		225	159.6
2		228	159.3
1/4		220	160.1
Cb		310	161.1
N		182	163.9

110' N

18213

6

N		164	165.7
Cb		176	164.5
1/4		164	165.7
2		190	165.1
1/4		187	163.4
Cb		188	163.3
F		175	164.6
+15		148	167.3
+25		114	170.7
+35		97	172.4
+40		70	175.1
+56.9 = N.L. 33rd from S		54	176.7
	121' N = S End of 100'		
-57.0		41	177.5
-40		66	175.5
-20		86	173.5
F		120	170.1
Cb = End of Existing Cb		121.5	169.88
Gutter Flow Line 12" Cor. Pipe		138.1	168.32
1/4		121	170.0
2		125	169.6
1/4		125	169.6
Gutter Flow Line 12" Cor. Pipe		143.1	167.82
Cb = End of Existing Cb		122.5	169.54
N		119	170.2
TP	12.13	194.11	0.15
BN	March on Page 9	127	192.22

NE No.

506.101

Topog. From A to B St
East of 33rd St

BM	377	196.62	192.85	NE Mon #56 & 33rd
Cont From Page 6				
121' N of N.L. A				
FL 33rd From S		13.3	183.32	
30 F		10.0	186.6	
70 F		7.0	189.6	
100 F - N.L. Fallon		5.5	191.1	
TP	775	191.36	183.61	
N.L. A St				
FL 33rd From S		13.7	177.7	
70 F		12.6	178.8	
100 F		9.0	182.4	
150 F		5.4	186.0	
200 F		1.1	189.8	
250 F		0.0	191.4	
S.L. A St				
FL 33rd A St From S		26.0	165.4	
50 F		25.7	165.7	
100 F		18.4	173.0	
125 F		12.0	178.4	
160 F		9.0	182.4	
200 F		5.7	185.7	
250 F		2.3	189.1	
100' S of S.L. A St				
250 F of E.L. 33rd		6.5	184.9	
190 F " "		11.5	179.9	

191.36

TP	348	182.41	12.43	178.93
150 F of E.L. 33rd			10.2	172.7
100 F " "			19.1	163.3
50 F " "			26.1	155.3
FL " "			35.3	147.2
200' S of S.L. A St				
FL of 33rd From S			33.7	143.7
50 F " "			32.6	149.8
100 F			26.4	156.0
150 F			20.6	161.8
200 F			9.2	174.2
250			8.1	179.3
290			0.0	182.4
300' S of S.L. A = N.L. B St				
300 F of E.L. 33rd			3.1	179.3
250 F " "			7.7	174.7
TP	0.71	170.04	12.08	169.33
200 F of E.L. 33rd			3.5	166.5
150 F " "			11.0	159.0
TP	0.25	157.32	12.97	157.07
100 F of E.L. 33rd			3.1	154.2
50 F " "			8.3	149.0
TP	1.08	145.56	12.84	144.48
FL of 33rd From S			2.3	143.3
TP	1.27	133.71	13.12	132.44
BM			6.16	127.55

3-3-29
515.507
Duplication
Part 4 of 4
026000

N.W. Prop Hub
8+33rd Prop
127.51

16 wide X sec Alley BIK R. Blairs Highland
Redwood to Palm bet 29th + Dale

3-26-29
Miller

321.59

58'.5 - garage on w. ent. floor 6.8 Back

10

B.M.	9.77	321.59	311.82	S.E. Dale + Redwood			
		00 = S. line Redwood			E	4.5	317.1
					C	4.4	317.2
E. ent. cl		5.70	315.89		N	4.1	317.5
E. parvt		5.78	315.81	+0.8		3.90	317.7 ent. apron
± "		5.73	315.86	+6.8		3.1	318.5 floor
W. "		5.24	316.35			100'.5	
W. ent. cl		5.11	316.49		N	4.3	317.3
		5'.5			E	4.4	317.2
W		4.7	316.9		E	4.7	316.9
C		4.8	316.8			108'.5 garage on E ent. floor	5.6 Back
E		4.7	316.9		E - 5.6	5.40	316.19 floor
		15'.5			E - 0.2	5.46	316.6 ent. apron
E		4.9	316.7		E	5.0	316.6
+2		3.8	317.8		C	4.4	317.2
E		4.2	317.4		W	4.2	317.4
W. on ent. Drive		4.10	317.5			120'.5	
		31.5 S = N. end garage on w. ent. floor North Entrance			W	4.2	317.4
W - 5' ± Door		3.33	318.26 floor		C	4.4	317.2
W - 0.5' E. Line garage		3.33	318.76		E	4.4	317.2
W		3.5	318.1			144'.5 garage on w. ent. floor on line	
+2		3.9	317.7		E	4.4	317.2
C		4.2	317.4		C	4.2	317.4
E		4.4	317.2		+7	3.9	317.7 dirt
					+9	3.80	317.7 ent. apron
					W	3.60	317.9 floor

Plotted 4-1-29 E.A.B.

319.58

319.58

Alley Bk R. Blair Highlands

12

482' S. garage on E. cont. floor	4.90	314.68	d.o. in Alley South Entrance ctr door	W	5.1	314.5
E	4.9	314.7			599' S. = N. Line Palm St.	
C	4.8	314.8	W. dirt + cont. db		6.16	313.42
W	4.5	315.1	W. pavmt.		6.51	313.07
520' S. garage on E. cont. floor			South Entrance	W. " + Dirt	7.08	312.50
W	4.6	315.0		E. "	7.28	312.30
C	5.0	314.6		E. cont. db. + Dirt.	7.18	312.40
E	5.0	314.6		T.P. 4.78	317.69	6.67
+5 ctr Door	4.9	314.7		CHK. on B.M.	2.78	312.91
559' S. { garage on E dirt floor			15.7 Back			N.E. 29"
" " W " " on line						314.92 + Palm.
E-15.7	5.9	313.7	floor			
E	5.6	314.0				
C	5.5	314.1				
W	5.2	314.4				
W.	4.8	314.8	floor			
571' S. garage on W. dirt floor			door o.2 in Alley			
W	5.2	314.4				
+3	5.6	314.0				
C	5.6	314.0				
+7	6.0	313.6				
E	5.6	314.0				
592' S.						
E	5.9	313.7				
+2	6.4	313.2				
C	6.0	313.6				
+5	6.2	313.4				

16' wide

7 Sec Alley BIK 7. Blairs Highlands. 3-26-39
Palm to Nutmeg bet 29th & Dale miles

316.70

13

47.5 = S. End 4 garages on W

T.P. 3.79 316.70 312.91 Page 12

oo = S. line Palm

W. emb. 4.25 312.45

W. Pavmt 4.68 312.02

E. " 5.28 311.42

E. " 5.38 311.32

E. emb. 5.26 311.44

5.5.

E 4.1 312.6

+1 4.9 311.8

C 4.7 312.0

+6 4.6 312.1

W 3.2 313.5

Plotted 4-1-29 FAB 10.5 = N. End 4 garages on W. emb. floor 6.5 Back

- 6.5 2.79 313.91 floor

- 2.7 3.14 313.56⁺ apron

W 3.5 313.2

+3 4.4 312.3

C 4.4 312.3

+7 4.5 312.2

E 4.0 312.7

42.5 = garage on E. emb. floor 1.5 Back

- 1.5 3.90 312.8 floor

E 4.1 312.6

C 3.8 312.9

W 3.5 313.2

- 6.5

- 2.7

W

C

E

- 3.5

- 2.3

E

C

W

W

C

E

E - 0.3

E

C

W

W - 6

3.17

3.41

3.7

3.8

4.0

4.49

4.50

4.6

4.5

4.2

4.6

4.8

4.8

123.5 = N. End emb. Apron 0.3 E. of E. line

5.26

5.2

5.1

4.7

131.5 garage on W. 0.5 Back North Entrance

4.5

313 53⁺ floor

313 29⁺ apron.

313 10

312.9

312.7

3.5 Back

312 21 floor

312 20⁺ apron.

312 1

312 2

312 5

312 1

311 9

311 9

311 44⁺ emb. Apron

311 5

311 6

312 0

312 2⁺ Door.

113.5.

316.70

335'.5

W			10.9	305.8
C			11.2	305.5
E			11.7	305.0
T.P.	0.21	305.26	11.65	305.05
		350'.5		
E			0.7	304.6
C			0.7	304.6
W			0.5	304.8
	392'.5 garage on E. cnt floor		8'.4 Back	
W			1.5	303.8
C			1.7	303.6
E			2.1	303.2
7 8 4			1.9	303.4 floor
		430'.5		
E			3.5	301.8
C			3.0	302.3
W			2.8	302.5
		460'.5		
W			4.0	301.3
C			4.5	300.8
E			4.9	300.4
		500'.5		
E			5.7	299.6
C			5.7	299.6
W			5.2	300.1

305.26

Alley B/K 7. Blair's Highlands.

15

530'.5

W			6.9	298.4
C			7.2	298.1
E			6.8	298.5
		5.60		
-5			10.3	295.0
C			8.9	296.4
C			8.8	296.5
W			8.5	296.8
	599'.2 S. = N. Line Walnut St			
W			12.5	292.8
C			12.7	292.6
E			12.7	292.6
T.P.	8.82	301.24	12.84	292.42
	chk on B.M.		2.28	298.96 - 298.96 + Walnut

600

Nutmeg St X Sec R9th to Dale Sts. 3-27-29
miles.B.M. 4.14 303.10 298.96 N.M. 29th
+ NutmegN. line of R9th St. Produced from N. 31.9 width

N. No Return	3.9	299.2
+6	4.4	298.7
+8	5.0	298.1
+15.95 = ϕ	5.0	298.1
+23.9 = s. gutter	5.5	297.6
+25.9 = s. ent. db	5.06	298.04
+29.9 = s. edge walk	4.99	298.11
+30.9 = s. line	5.2	297.9

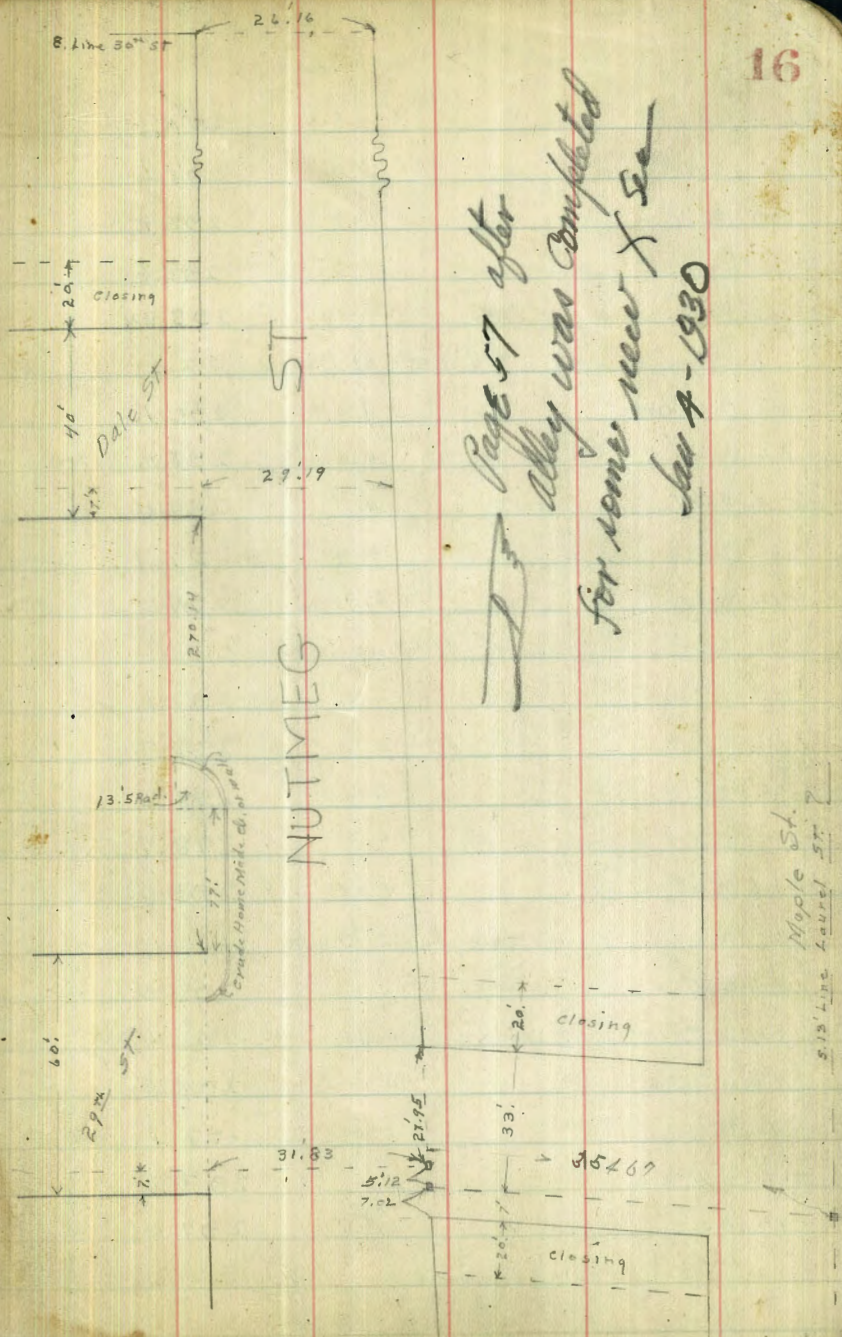
R.1 E of N. line = E. End ent. walk & ons.

S.	5.2	297.9
+1 = s. E. cor. ent. walk	4.92	298.18
+6 = E. End. ent. db	4.99	298.11
gutter	5.4	297.7
+15.95 = ϕ	4.9	298.2
+25.9	4.9	298.2
N	4.0	299.1

10' N. N. line

N. on s. end ent. db	4.20	298.90
N. " gutter part	4.70	298.40
+6	4.9	298.2
+15.9 = ϕ	4.9	298.2
+25.8	5.5	297.6
+31.8 = s.	6.0	297.1

Plotted 4-2-29 E.A.B.



16

Page 57 after
alley was completed
for some new Sec
Jan 4-1930

Maple St.
s. line Laurel St.

303.10

W. 1/4 Produced from N.

S	6.1	297.0
+6	5.5	297.6
+15.9 = ϕ	4.8	298.3
+25.8	4.5	298.6
+31.8 = Non pavmt	4.26	298.84

 ϕ 29th St. Produced from N.

N. on Pavmt.	4.00	299.10
+6	4.3	298.8
+15.85 = ϕ	4.7	298.4
+25.7	5.4	297.7
+31.7 = S	5.9	297.2

E. 1/4 Produced from N.

S	6.0	297.1
+6	5.4	297.7
+15.8 = ϕ	4.9	298.2
+25.6	4.4	298.7
+31.6 = Non pavmt	4.09	299.01

E. ch. produced from N.

N. ch. ch.	4.08	299.02
N. gutter Pavmt	4.63	298.47
+6	4.6	298.5
+15.75	5.0	297.1
+25.5	5.5	297.6
+31.5 = S.	6.1	297.0

Crude Return in on N.E. cor. and curb or wall extends

E. of E. Line of 29th St.

303.10

E. Line 29th St Produced from N. 31.4 run - wide

Nutmeg St.

S	6.5	296.6
S+6	5.8	297.3
+15.7 = ϕ	5.3	297.8
+25.9 gutter	4.7	298.4
+25 Top crude ch. ch.	4.40	298.70
N	4.3	298.8

38.5 E. = Brk in grade in crude ch. or wall

N	6.0	297.1
+6.4 Top ch. ch.	6.3	296.78
+6.5 gutter	7.2	295.9
+15.6 ϕ	7.6	295.5
+25.2	8.0	295.1
+31.2 = S	8.6	294.5

77.8 = P.C. on N. ch.

S	10.0	293.1
+6	10.0	293.1
+15.45 = ϕ	9.5	293.6
+24.5 gutter	8.8	294.3
+24.5 = N. ch. ch.	6.97	296.13
+30.9 = N.	6.8	296.3

58.2 = P.I. 13.5 Red ch. + N. Line Nutmeg

N. on ch. ch. yardage to W.	7.05	296.05
+9.1 gutter. yardage to E.	8.2	294.9
+6	9.3	293.8
+15.35 = ϕ	10.1	293.0
+24.7	10.3	292.8
+30.7 = S	10.6	292.5
+5	11.8	291.3

303.10
110'E

S-10	15.3	287.8
S	11.5	291.6
+6	11.0	292.1
+15.3=φ	11.0	292.1
+19	10.7	292.4
+24.6	9.4	293.7
+30.6=N	9.0	294.1

120'E

N	8.8	294.3
+6	9.7	293.4
+10	10.9	292.2
+15.3=φ	11.0	292.1
+24.6	11.4	292.7
+30.6=S	12.4	290.7
+10	16.8	286.3

T.P. 2.44 294.86 10.68 292.42 Page 15

127 E = W. Line Alley Produced from N.

S-15	10.6	284.3
S	6.3	288.6
+6	3.2	291.7
+15.2=φ	3.0	291.9
+24.4	2.8	292.1
+30.4=N	2.1	292.8

294.86
135'E = φ Alley to N.

Nutmeg

18

N	2.3	292.6
+6	2.7	292.2
+15.1=φ	2.7	292.2
+24.2	4.4	290.5
+25	7.4	287.5
+30.2=S	8.6	286.3
+15	11.8	283.1

143'E = E. Line Alley to E.

S-15	12.8	282.1
S	9.7	285.2
+6	7.4	287.5
+15.1=φ	5.6	289.3
+24.2	4.5	290.4
+30.2=N	2.2	292.7

148'E

N-5	4.5	290.4
N	5.7	289.2
+6	6.8	288.1
+15.1=φ	8.1	286.8
+24.2	9.6	285.3
+30.2=S	10.7	284.2
S+15	13.4	281.5

294.86

165'E.

S-15	15.4	279.5
S	13.2	281.7
+6	12.3	282.6
+15. = ϕ	11.3	283.6
+24	9.9	285.0
+30 = N	8.0	286.9
+5	5.7	289.2

200'E

N-5	12.0	284.9
N	13.0	281.9
T.P.	0.22	282.09
	12.97	281.87
+6	2.7	279.4
+14.8 = ϕ	3.9	278.2
+23.6	5.3	276.8
+29.6 = S	6.2	275.9
+15	7.5	274.6

230'E.

S-15	13.2	268.9
S	10.2	271.9
+6	9.7	272.4
+14.7 = ϕ	8.8	273.3
+23.4	7.3	274.8
+29.4 = N	4.9	277.2

282.09

245'E

N	6.0	276.1
+6	7.1	275.0
+14.7 = ϕ	8.4	273.7
+23.4	10.4	271.7
+29.4 = S	11.7	270.4
+15	16.2	265.9

260'E.

S-15	19.6	262.5
S	14.8	267.3
+6	12.8	269.3
+14.6 = ϕ	10.1	272.0
+23.2	8.5	273.6
+29.2	8.3	273.8

270'E = N. Line Dale St

40' width
5' elev
7.5' 1.4'

N	10.4	271.7
+6	11.4	270.7
+14.6 = ϕ	13.9	268.2
T.P.	2.65	272.27
	12.47	269.62
+23.2	5.6	266.7
+29.2 = S	7.2	265.1
+20	11.5	260.8

N. elev.

-20	13.0	259.3
S	8.3	264.0
+6	6.4	265.9
+14.6 = ϕ	3.8	268.5

N. Line Dale St.

19

272.27

N. cl. Dale St. (Con)

+23.2	1.7	270.6
+29.2 = N. ground for yardage	1.6	270.7
N. on s. end mt. cl	2.33	269.94 ✓
N. " gutter Pavmt.	2.92	269.35
N. 1/4		
N. on pavmt	2.70	269.57
N. ground for yardage	2.0	270.3
+L	2.7	269.6
+14.5 = C	5.3	267.0
+23	7.6	264.7
+29 = S.	9.0	263.3
+20	14.3	258.0

E. Dale St.

S-20	15.0	257.3
S	8.4	263.9
+L	7.4	264.9
+14.5 = C	6.0	266.3
+23	3.2	269.1
+29 = N. on ground for yardage	2.4	269.9
+29. pavmt.	2.69	269.53
E. 1/4		
N. pavmt.	3.15	269.12
N. ground for yardage	3.0	269.3
+L	3.9	268.4
+14.5 = C	5.2	267.1
+23	7.5	264.8

272.27

Nutmeg St.

20

+29 = S	9.8	262.5
+20	16.3	256.0
E. cl		
S-30	22.0	250.3
S-12	15.4	256.9
S	13.8	258.5
+L	9.9	262.4
+14.4 = C	8.2	264.1
+22.8	5.2	267.1
+24.8 = N. dirt for yardage	3.5	268.8
N. end cl	3.30	269.0 ^{8.97}
N. pavmt.	3.81	268.5 ⁴⁶

E. Line Dale St

N.	3.3	269.0
+L	5.0	267.3
+14.4 = C	8.7	263.6
+22.8	12.2	260.1
+25.8 = S	13.2	259.1
S+15	17.3	255.0
S+30	22.8	249.5
T.P.	0.70	260.55
20.8 of E. Line Dale		
S-12	8.7	251.9
S	5.6	255.0
+L	4.7	255.9
+14.3 = C	3.7	256.9

260.55

Nutmeg St

20.8. of B. Line Date St.

+22.6 4.5 256.1

+28.6=N 4.3 256.3

40.2. of Date St.

N 15.0 245.6

+L 14.0 246.6

+14. = ~~4~~ 13.2 247.4

+22 12.4 248.2

+28 = S 12.0 248.6

T.P. 12.49 272.84 0.70 259.85

T.P. 12.12 284.39 0.07 272.27

T.P. 11.54 295.50 0.43 283.96

CHK on IB Page 15 3.10 292.40 = 292.42

21

40' wide
5' cl's
7.5' 1/4's

29th St X Sec. Nutmeg South

3-28-29
Miller

299.19

22

BM.	0.23	299.19	298.94	N.W. 29 th + Nutmeg St	1/4	6.0	293.2
		00 = S. line Nutmeg			C	6.2	293.0
W.		1.4	297.8	n lawn	1/4	8.2	293.0
cl		1.3	297.9	" "	cl	5.9	293.3
+2.5		1.3	297.9	Top Cobble wall	E	6.0	293.2
+3.		2.0	297.2			30.55	
1/4		2.2	297.0		E	6.1	293.1
C		2.2	297.0		cl	5.9	293.3
1/4		2.0	297.2		1/4	6.4	292.8
cl		2.1	297.1		C	6.3	292.9
E		2.0	297.2		1/4	6.2	293.0
		15' 5"			cl	6.2	293.0
E		3.5	295.7		W	6.2	293.0
cl		3.3	295.9			39.55 = Top E+W. ext. wall	
1/4		4.0	295.2		W	6.85	292.34 Top wall
C		4.1	295.1		+23 E. End wall	6.9	292.3 " "
1/4		4.0	295.2		+25 ground.	8.1	291.1
+3.		3.8	295.4		cl	7.9	291.3
+3.5		2.8	296.4	Top cobble wall	1/4	7.6	291.6
cl		2.8	296.4	n lawn	C	7.7	291.5
W.		2.5	296.7	" "	1/4	7.6	291.6
		29' 8"		S: S End N.S. cobble wall	cl	7.2	292.0
W.		3.8	295.4	Top E+W wall	E	7.0	292.2
cl		4.4	294.8	" "			
+4		4.5	294.7	" "			
+4.5		6.0	293.2				

Plotted 4-1-29 E.A.B.

299.19
39.7 S

E	7.1	292.1	
eb	7.3	291.9	
1/4	7.7	291.5	
c	7.7	291.5	
1/4	8.0	291.2	
eb	8.1	291.1	
+ 3.5 ground	8.2	291.0	
+ 3.6 e mt porch	7.7	291.5	
W. " "	7.7	291.5	
+ 3.7 = House	7.7	291.5	
	44.5 S = S edge e mt porch		
W- 3.3	7.8	291.4	e mt porch
N	7.8	291.4	e mt porch
+ 1.8	7.8	291.4	" "
+ 1.9	8.7	290.5	ground
eb	8.5	290.7	
1/4	8.4	290.8	
c	8.3	290.9	
1/4	8.1	291.1	
eb	7.6	291.6	
E	7.3	291.9	
	45.5 S = N. end garage entrance.		
E	7.5	291.7	
eb	7.8	291.4	
1/4	8.3	290.9	
c	8.4	290.8	

299.19

29.5 ST.

23

1/4	8.7	290.5	
eb	8.8	290.4	
+ 2.3 = E. Edge e mt. apron	8.4	290.4	
W	8.8	290.4	
+ 3.2 = Front of garage	8.8	290.4	
	55.5 S = S. end garage		
W- 2.6 = Front of garage	8.8	290.4	
W	8.9	290.3	
+ 3.3 = E. Edge e mt. Apron	9.0	290.2	
eb	9.1	290.1	
1/4	9.0	290.2	
c	9.0	290.2	
1/4	8.9	290.3	
eb	8.9	290.3	
e	8.8	290.4	
	75.5 S.		
E	10.6	288.6	
eb	10.4	288.8	
1/4	10.2	289.0	
e	10.1	289.1	
1/4	10.1	289.1	
eb	10.2	289.0	
+ 4 = Lattice Fence	10.2	289.0	
W	10.2	289.0	

299.19

82'.5 = Top E+W. cobble wall

W	10.2	289.0	Top wall
+ 1.2 = Lattice Fence	10.2	289.0	" "
cb	10.2	289.0	" "
+ 1.9 E. End wall	10.3	288.9	" "
+ 2. ground	11.3	287.9	
"	11.5	287.7	
c	11.8	287.4	
"	11.7	287.5	
cb	10.9	288.3	
E	12.3	286.9	
	83'.5		
E	12.4	286.8	
cb	11.0	288.2	
"	11.8	287.4	
c	12.0	287.0	
"	11.6	287.6	
cb	12.4	286.8	
+ 3.8 = Lattice Fence.	12.6	286.6	
W	12.6	286.6	
	95'.5 = Top E+W. cobble wall		
W	13.7	285.5	
+ 0.9 = { W. End cobble wall S End lattice Fence	12.6	286.6	Top wall
cb	12.7	286.5	" "
+ 3 E. End cobble wall	12.7	286.5	" "
"	13.2	286.0	
E	13.6	285.6	

299.19

29. 57

24

			13.6	285.6
			14.0	285.2
			15.2	284.0
	96'.5			
			15.4	283.8
			14.9	284.3
			14.7	284.5
			13.8	285.4
			13.4	285.8
			13.6	285.6
			13.8	285.4
	105'.5 = E+W cobble wall			
T.P.	0.57	287.09	12.67	286.52
W			1.5	285.6
+ 4.5 E. End wall			1.5	285.6
			2.2	284.9
			3.0	284.1
			3.6	283.5
			4.1	283.0
			4.3	282.8
			4.8	282.3
	106'.5			
			4.9	282.2
			4.8	282.3
			4.3	282.8
			4.0	283.1

287.09

1/4	3.0	284.1
cl	2.5	284.6
+1	4.9	282.2
W	4.9	282.2

114'.5 = E+W cobble wall

W	4.8	282.3 Top wall
cl = E End wall	4.8	282.3 " "
1/4	4.9	282.2
e	5.3	281.8
1/4	6.0	281.1
cl	6.3	280.8
E	6.7	280.4

115'.5

E	7.0	280.1
cl	6.5	280.6
1/4	6.2	280.9
e	5.5	281.6
1/4	5.4	281.7
cl	4.7	282.4
+1	6.2	280.9
W	6.2	280.9

122'.5 = E+W cobble wall

W	6.3	280.8 Top wall
cl	6.3	280.8 " "
+0.5 = E End wall	6.3	280.8
+1	6.7	280.4

287.09

1/4	6.8	280.3
e	6.9	280.2
1/4	7.8	279.3
cl	8.8	278.3
E	9.4	277.7

123'.5

E	9.5	277.6
cl	8.9	278.2
1/4	8.0	279.1
e	7.0	280.1
1/4	7.0	280.1
cl	7.2	279.9
W	7.3	279.8

139'.5 = E+W cobble wall

W	7.5	279.4 Top wall
cl	7.5	279.6 " "
+0.5 = E End wall	7.5	279.6 " "
+1	10.0	277.1
1/4	10.6	276.5
e	11.4	275.7
1/4	12.5	274.6
cl	13.1	274.0
E	13.3	273.8

29th ST

25

287.09

140'.3

E		13.4	273.7
cb		13.2	273.9
"4		12.7	274.4
C		11.7	275.4
"4		10.9	276.2
cb		10.6	276.5
W		10.6	276.5
T.P.	4.10	278.31	12.88 274.21

160'.5

W		8.0	270.3
cb		8.1	270.2
"4		8.2	270.1
C		8.3	270.0
"4		8.7	269.6
cb		9.2	269.1
E		9.7	268.6

180'.5.

E		15.3	263.0
cb		15.4	262.9
"4		13.7	264.6
C		13.1	265.2
"4		13.0	265.3
cb		12.5	265.8
W		12.5	265.8

278.31

T.P.	12.77	286.98	4.10	274.21	26
T.P.	12.66	299.18	0.46	286.52	
chk on original B.M.			0.22	298.96	=298.96

Bill Bliss
Joe Duermitt
J. Jacobszoon
P. Kiernan
May 21/1929

Levels on Paving at the Intersection of
Columbia + Duinde Streets

27

	+	#1	-	Elev
BM	8.07	111.07		103.00
TP	13.00	123.65	0.92	110.65
TP	13.20	135.62	1.23	122.42
TP	12.70	147.26	1.06	134.56
T.P.	10.58	157.11	0.73	146.53

S.E. Pounce + India Brass Peg in C6

Line A. Along W.C.6 Line of Columbia

Sline - 20 Topcb	7.51	149.60
Gutter	8.13	141.98
Sline. Topcb	5.82	151.29
Gutter	6.34	150.77
+10 cb	5.51	151.60
+15	5.31	151.80
+20	5.19	151.92
+25 $\frac{1}{2}$	5.98	152.03
+30	4.96	152.15
+35	4.84	152.27
+40 ^{cb}	4.82	152.29
Nline Topcb	4.52	152.59
" " Gutter	5.08	152.03
+20 Topcb	5.34	151.77
+11 Gutter	5.88	151.73

Line B. 4' East of the W.C.6
Line of Columbia

-20	5.40	151.71
NL	4.59	152.52
+10 cb	4.27	152.84

+15	4.32	152.79
+20	4.44	152.67
+25	4.56	152.55
+30	4.64	152.47
+35	4.73	152.39
+40 ^{cb}	4.98	152.13
+50 Sline	5.84	151.27
Sline 20	7.57	149.54
-20	6.99	150.12
Sline	5.25	151.86
+10 ^{cb line}	4.37	152.74
+15	4.16	152.95
+20	4.02	153.09
+25	3.92	153.19
+30	3.77	153.34
+35	3.69	153.42
+40 ^{cb}	3.65	153.46
+50 Nline	3.99	153.12
+20	4.64	152.47
-20	9.02	153.09
Nline	3.49	153.62
+10 ^{cb}	3.19	153.92
+15	3.22	153.89
+20	3.3	153.79

Line C. 9' East of the W^{cb} line
of Columbia

Line D. 15' East

+25	3.44	153.67
+30	3.59	153.52
+35	3.74	153.37
+40 ^{cb}	3.97	153.14
+50 Sline	4.86	152.25
+20	6.52	152.59
-20	6.78	152.83
Sline	4.60	152.51
+10 ^{cb}	3.75	153.36
+15	3.47	153.64
+20	3.79	153.82
+25	3.17	153.94
+30	3.02	154.09
+35	2.90	154.21
+40 ^{cb}	2.92	154.19
Nline	3.21	153.90
+20	3.98	153.13
-20	4.01	153.10
Nline	3.10	154.01
+10 ^{cb}	2.72	154.39
+15	2.68	154.43
+20	2.76	154.35
+25	2.86	154.25
+30	3.05	154.06

Line E. 20' East

Line F. 25

(continued on page 31)

May 21, 1909

D Bliss

Levels on paving at the Intersection
of Quince + India

1690
Line A

BM	8.07	111.07	-	Elev	103.00	SE B.P.	Quince + India
----	------	--------	---	------	--------	---------	----------------

Line A See sketch & line of India

S Line = 00		8.14		102.86			
+05		8.04		102.96			
+10		7.93		103.07			
+20		7.89		103.11			
+20		7.87		103.13			
+25		7.86		103.14			
+30		7.90		103.10			
+35		7.97		103.03			
+40		8.11		102.89			
+47 ³⁰ N Line		8.43		102.57			

Line B. Along E. Side line of India

N-20 Topcb		8.43		102.57			
N-20 Gutter		9.20		101.80			
N Topcb		8.11		102.19			
N Gutter		8.91		102.09			
+10		8.68		102.32			
+20		8.90		102.60			
+30		8.26		102.74			
+40		8.13		102.87			
+50		8.16		102.84			
+60		8.24		102.76			
+70		8.28		102.72			
S Topcb +80 + CB		8.08		102.92			

	HI 11107	-	Elev
Gutter		9.14	101.86
+05 Gutter		8.83	102.17
+05 Topcb		8.06	102.94
+20 Topcb		8.00	103.00
+20 Gutter		8.73	102.27

Line C 12.75 West of the
Scrub Line of India

-20		8.54	102.46
S Line		8.93	102.57
-70		8.46	102.54
-60		8.52	102.48
-50		8.50	102.50
-40		8.51	102.49
-30		8.56	102.44
-20		8.60	102.40
-10		8.61	102.39
N Line		8.74	102.26
+20		8.96	102.04

Line D. of India

-20		9.09	101.91
N		8.92	102.08
+10		8.85	102.15
+20		8.76	102.24
+30		8.76	102.24
+40		8.77	102.23
+50		8.75	102.25
+60		8.78	102.22

+70			
+80	same		
+20			

	HI 11107	-	Elev
		8.72	102.28
		8.75	102.25
		8.72	102.28

Continuation of Columbia & Quince
Intersection Levels

	HI	Elev
+35	157.11	326
+40	157	3.66 153.45
S. Line		450
+20		6.28

East Cb line of Columbia

-20 Topcb	5.60
-20 Gutter	6.40
S. line Topcb	4.48
" " Gutter	4.98
+10	3.99
+15	3.14
+20	2.83
+25	2.60
+30	2.49
+35	2.42
+40	2.52
+50 line Gutter	3.02
N. line +20 Gutter	4.08
N " " " Topcb	3.36
Set BM	3.04

E. line of Columbia

N. line +26 Gutter	2.71
+10	2.31
+15	2.21
+20	2.23
+25	2.36

	HI	Elev
+30	157.11	252
+35		2.81
+40		3.28
+47.4 Gutter		4.09

20' East of the E. line of Columbia

S. Topcb		1.30		
Gutter		1.79		
Obt 5		1.46		
+10		1.17		
+15		1.00		
+20		0.97		
+25		1.10		
+30 N. Gutter		1.26		
N. Topcb		0.78		
T.P.	0.69	147.22	10.58	146.53
T.P.	0.93	135.50	12.65	134.57
T.P.	1.53	123.95	13.08	122.42
T.P.	1.28	112.66	12.57	111.38
Check BM. SE. BP.			9.66	103.00 = 103.00

Columbia & Quince
SE Top of Columbia & Quince

6-1-29
 J.C. Bliss X-section Alley Block 36 - Ter Alta
 Between Orange + El Cajon - + 35th + Wilson
 15' wide

T 384.54

32

B.M. SW B.P. El Cajon + Wilson
 + 446

H.L. 384.54

Section in South Gutter El Cajon

E	4.30	380.24
☿	4.33	380.21
W	4.38	380.16

Sd. El Cajon = 0100

W Topcb - Existing return	3.65	380.89
G	3.75	380.79
☿	3.99	380.55
G	3.90	380.64

E Topcb - Existing return

E	4.4	380.1
☿	4.0	380.5
W	4.3	380.2

0150

W	5.0	379.5
☿	4.6	379.9
E	4.8	379.7

0175

E	5.4	380.0
☿	4.9	379.6
W	5.1	379.4

Plotted 6-11-29 - C.B.H.

1400

N	5.4	379.1
☿	5.2	379.3
E	5.4	379.1

1425

E	5.2	379.3
☿	5.4	379.1
W	5.5	379.0

1450

W	6.0	378.5
☿	5.5	379.0
E	5.3	379.2

1457 to 2405

String of 4 Garages Old Back E.L.

N37-Sid on Concrete Floor North edge Garage

☿ #1	5.75	378.79
------	------	--------

1499 South edge Concrete Floor #4

☿	5.90	378.64
---	------	--------

1475

E	5.8	378.7
☿	5.8	378.7
W	5.9	378.6

2400

W	6.0	378.5
☿	5.5	379.0
E	6.0	378.5

384.54

2407

4' Concrete wall 5.06' Back E.L. 5.90 378.60 ✓

2409 to 2457

String of 4' Garages 0.6' Back E.L.

2411 - North edge Concrete Floor of #1 5.85 378.69 ✓

2451 - South edge Concrete Floor of #4 6.00 378.54 ✓

2425

E 6.0 378.5

W 5.7 378.8

E 5.6 378.9

2450

W 6.0 378.5

E 5.8 378.7

E 6.0 378.5

T.P. -6.36 = 378.18

+5.53

H. 383.71

2475

E 6.0 377.7

W 5.7 378.0

E 5.8 377.9

3400

W 5.9 377.8

E 6.1 377.6

E 5.8 377.9

H. 383.71

H. 383.71

33

3425

5.8 377.9

5.8 377.9

5.6 378.1

3427

Flowline M.H. in E Alley 10.04 373.67 ✓

3450

W 5.6 378.1

E 5.6 378.1

E 5.6 378.1

3473

8' Garage 2' Back W.L. - Concrete Floor 5.13 378.58 ✓

3475

E 5.3 378.4

E 5.3 378.4

W 5.4 378.3

3484

8' Garage 2' Back W.L. Concrete Floor 5.07 378.64 ✓

3493

3' Concrete Walk 1.5' Back E.L. 5.03 378.68 ✓

4400

W 5.0 378.7

E 5.1 378.6

E 5.2 378.5

↑ 383.71

4415

⊕ 8' Garage 9.5' Back E.L. - Dirt Floor 5.1 378.6 ✓

4425

E 5.1 378.6

⊕ 5.0 378.7

W 4.8 378.9

4427

⊕ 8' Garage 9.5' Back E.L. - Dirt Floor 5.1 378.6 ✓

4443

⊕ 8' Garage 9.5' Back E.L. - Dirt Floor 4.9 378.8

4450

W 4.7 379.0

⊕ 4.0 378.8

E 5.2 378.5

4462

⊕ 8' Garage 3' Back W.L. - Dirt Floor 4.8 378.9 ✓

4473

⊕ 8' Garage 9.5' Back E.L. - Dirt Floor 4.9 378.8 ✓

4475

E 4.8 378.9

⊕ 4.9 378.8

W 5.0 378.7

5400

W 5.1 378.6

⊕ 5.0 378.7

E 5.3 378.4

H.I. 383.71

34

5414

⊕ 8' Garage 0.6' in Alley from W.L. - Dirt Floor 4.9 378.8 ✓

5425

E 5.3 378.4

⊕ 4.9 378.8

W 4.9 378.8

5433 to 5460

String of 3 Garages 8.5' Back E.L.

North edge dirt floor #1 5.2 378.5 ✓

South " " " #3 5.1 378.6 ✓

5450

W 5.3 378.4

⊕ 5.2 378.5

E 5.0 378.7

5475

E 5.5 378.2

⊕ 5.6 378.1

W 5.7 378.0

6400

W 6.0 377.7

⊕ 5.7 378.0

E 6.0 377.7

6407.5 = N.L. Orange

E - Top existing return 6.00 377.71

⊕ 6.2 377.5

⊕ 6.2 377.5

T 383.71

G	6.2	377.5
W-Top existing return	6.06	377.65
T.P.	-6.12	377.59
+4.24	381.83	
B.M. N.W. P.P. Orange & Wilson	-4.85	376.98
City B.M. Box		377.05
		0.07

6-4-29 Notes on Alley N.W. End
 J.C. Bliss Ludington Place from 150 West of W.L.
 Robert Ludington Place to Bottom of Natural
 Pauner Drain East of Ludington Place. 20' Wide

35

B.M. Top of Hub N.E. End College Ave		165.17
	+6.53	H.I. 171.70
		W.L. Ludington +0+00
S-Top Concrete Wall at S.L.	4.20	167.50
N-Base "	4.4	167.3
¢	4.7	167.0
N	5.5	166.2
	0+25	
N	5.9	165.8
¢	5.4	166.3
S-Base Wall	5.1	166.6
" Top Wall	4.53	166.17
	0+50	
S-Top Wall	4.99	166.71
"-Base "	6.6	165.1
¢	7.1	164.6
N	7.3	164.4
	0+57.8 = End Concrete Wall. S.L.	
N	8.1	162.6
¢	8.0	163.7
S-Base Wall	7.8	163.9
" Top "	5.08	165.67
		166.65
	0+65	
¢ 9' Concrete Drive at S.L.	8.57	162.13

H.I. 171.70

0475

S	9.7	162.0
E	9.7	162.0
N	9.9	161.8
1400		
N	15.1	156.6
E	14.9	156.8
S	14.5	157.2

1425

S	20.8	150.9
E	20.5	151.2
N	20.3	151.4
1450		
N	29.3	141.4
E	29.1	142.6
S	28.6	143.1

W.L. Ludington +5 Ludington 60' wide 10' gbs

13.7 South of S.L. Alley = Existing cb + Work	3.30	167.40
S	4.1	166.6
E	4.5	167.2
+5	4.5	167.2
N	4.9	166.8
+5	6.0	165.7
+10	7.7	164.0
+15	8.8	162.9

H.I. 171.70

36

W cb Ludington

Out 5	8.8	162.9
out 10	6.5	165.2
Out 5	6.1	165.6
N	4.7	167.0
+5	4.7	167.0
E	4.4	167.3
S	4.1	167.6
7.37		
7.37 End Existing cb on West	3.23	168.47

W cb +5

S	4.0	167.7
E	4.5	167.2
+5	4.7	167.0
N	5.2	166.5
+5	6.1	165.6
+10	7.3	164.4
+15	9.6	162.1

N 1/4

Out 15	10.6	161.1
Out 10	9.0	162.7
Out 5	5.6	166.1
N	4.9	166.8
+5	4.7	167.0
E	4.4	167.3
S	4.0	167.7

H. 1. 17. 70

W 1/4 + 5

S	3.9	167.8
R	4.3	167.4
+5	5.0	166.7
N	5.6	166.1
+5	6.6	165.1
+10	10.5	161.2
+15	11.3	160.4

E Ludington Place

Out 15	12.3	159.4
Out 10	11.0	160.7
Out 5	6.8	164.9
N	6.4	165.3
+5	6.4	165.3
+7	7.8	163.9
Q	4.5	167.2
S	3.7	167.8

Q + 5

S	4.0	167.7
Q	4.4	167.3
+2	4.9	166.8
+5	9.2	162.5
N	9.7	162.0
+5	11.7	160.0
+10	13.0	159.7
+15	13.8	157.9

H. 1. 17. 70

E 1/4

Out 15	14.1	156.6
Out 10	13.2	158.5
Out 5	11.5	160.2
N	11.1	160.6
+5	9.2	162.5
Q	5.3	166.4
+4	4.1	167.6
S	4.1	167.6

E 1/4 + 5

S	4.2	167.5
+5	4.7	167.0
Q	6.8	164.9
+7	11.5	160.2
N	11.8	159.9
+5	13.0	158.7
+10	14.0	157.7
+15	14.8	156.9

A cb Ludington

Out 15	15.1	156.6
Out 10	14.3	157.4
Out 5	13.4	158.3
N	12.4	159.3
Q	9.0	162.7
+6	4.6	167.1
S-End existing cb on East. Bad condition	4.60	167.1

137

H.I. 171.70

E. L. Ludington = 0+00

S	6.0	165.7
+8	11.8	159.9
E	11.8	159.9
+7	13.4	158.3
N	15.2	156.5
+5	15.5	156.2
+10	15.9	155.8
+15	16.8	154.9
0+05		
0+15	19.3	151.4
0+10	17.9	153.8
0+5	17.5	154.2
N	16.8	154.9
E	12.3	159.4
+4	11.8	159.9
S	7.8	163.9
0+10		
S	11.4	160.3
T.P.		-13.03 158.67✓
E	2.4	157.1
N	4.7	154.8
+5	4.8	154.7
+10	6.3	153.2
+15	6.8	152.7

H.I. 159.50

38

From 0+10 East the Levels are Correct

Levels and are taken along the E of the Alley

0+25	6.3	153.2
0+50	10.4	149.1
T.P.		-13.13 146.37✓
+0.65		H.I. 147.02✓
0+75	4.1	142.9
+100	9.3	137.7
T.P.		-12.39 134.63✓
+1.10		H.I. 135.75✓
+25	2.3	153.4
+50	8.0	137.7
+75	11.1	124.6
T.P.		-12.67 123.08✓
+0.38		H.I. 123.46✓
+200	4.8	119.6
+25	7.1	114.3
T.P.		-12.78 110.68✓
+0.00		H.I. 110.68✓
+50	2.5	108.2
+75	12.4	98.3
T.P.		-12.34 98.34✓
+3.61		101.95✓
3+00-Base West Bank Drain	18.1	83.9
3+10 E Drain	18.0	84.0

+0.83

H.I. 159.50

Typical Intersection

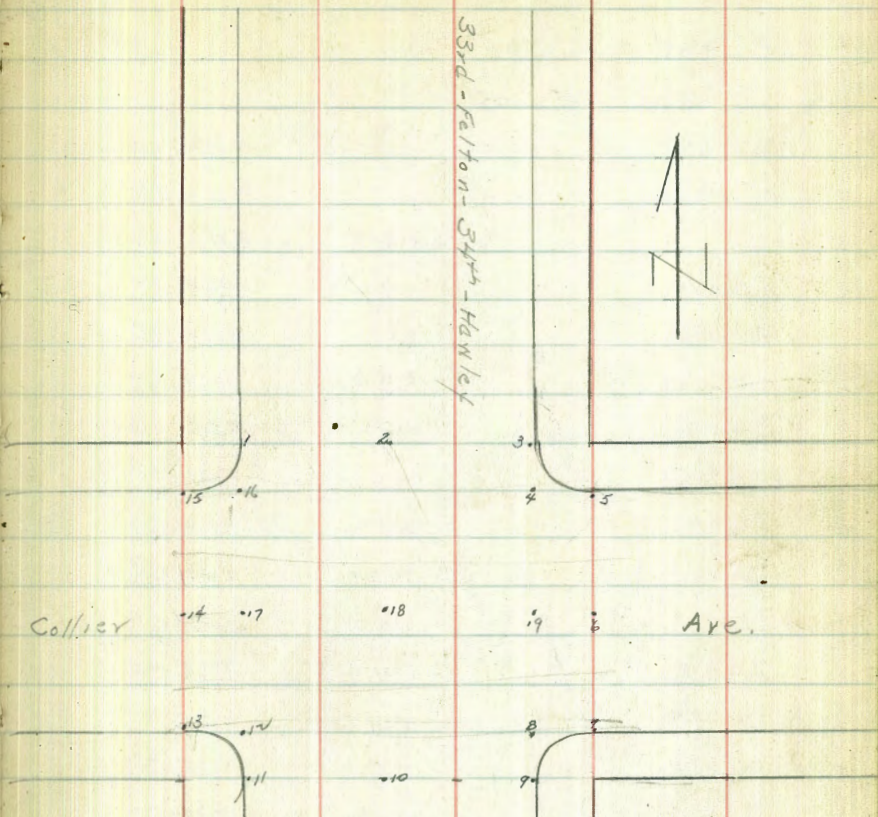
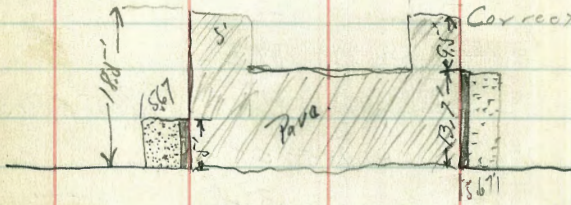
#1 101.95

T.P. +0.38 90.04' -12.29 89.66'

T.P. +1.22 79.19' -12.57 77.47'

B.M. B.P. in Westab Princess 200' North Highway -10.21 68.98'

Correct 69.06'



H-1-29
J.C. Bliss
Drebert

Intersection 33rd & Collier
see page 29 for shot numbers

393.33

40

B.M. NE B.P. Felton & Collier

389.96

16

4.75

388.58

+337 T 393.33

17

4.65

388.68

1-Top cb

4.19

388.14

18

4.05

389.28

G

4.67

388.66

19

4.57

388.76

2

3.94

389.39

+519

T 395.15

Felton & Collier

M.E.B. Felton
& Collier
389.96

3-Top cb

3.86

389.47

1-Top cb

4.66

390.49

G

4.37

388.96

G

5.17

389.98

4

4.50

388.83

2

4.85

390.30

5-Top cb

3.97

389.36

3-Top cb

5.20

389.95

G

4.42

388.91

G

5.72

389.43

6

4.03

389.30

4

5.22

389.43

7-Top cb

4.29

389.04

5-Top cb

5.05

390.10

G

4.72

388.61

G

5.60

389.95

8

4.64

388.69

6

5.30

389.85

9-Top cb

4.22

389.11

7-Top cb

5.45

389.70

G

4.72

388.61

G

5.98

389.17

10

4.18

388.15

8

6.00

389.15

11-Top cb

4.45

388.88

9-Top cb

5.51

389.64

G

4.91

388.42

G

6.01

389.14

12

2

4.85

388.48

10

5.21

389.94

13-Top cb

4.47

388.86

11-Top cb

5.10

390.05

G

1

4.92

388.41

G

5.59

389.56

14

4.08

389.25

12

5.55

389.60

15-Top cb

4.16

389.17

13-Top cb

5.13

390.02

G

4.71

388.62

G

5.47

389.68

see page 23
for correct
intersection

395.15

14	480	390 35
15-Tpcb	472	390 43
G	507	390 08
16	530	389 85
17	543	389 72
18	503	390 12
19	579	389 36

34th x Collier

B.M.N.E. B.P Felton x Collier

389.96

+602

x 395.98

1 Tpcb	498	391 00
G	549	390 49
2	484	391 14
3 Tpcb	488	391 10
G	535	390 63
4	548	390 50
5 Tpcb	485	391 13
G	539	390 59
6	503	390 95
7-Tpcb	543	390 55
G	591	390 07
8	578	390 20
9 Tpcb	525	390 73
G	579	390 19

395.98

41

10	522	390 76
11-Tpcb	516	390 82
G	563	390 36
12	560	390 38
13-Tpcb	519	390 79
G	564	390 34
14	498	391 00
15-Tpcb	510	390 88
G	553	390 45
16	551	390 47
17	551	390 47
18	505	390 93
19	561	390 37
T.P		-509 390.89

+651

x 397.40

Collier x Hawley

1-Tpcb	568	391 72
G	628	391 12
2	512	392 28
3-Tpcb	542	391 98
G	606	391 34
4	539	392 01
5 Tpcb	534	392 06
G	591	391 49

T 397.40

6	5.04	392.36
7-Tp cb	5.14	392.26
G	5.24	391.66
8	5.39	392.01
9-Tp cb	5.23	392.17
G	5.82	391.58
10	5.15	392.25
11-Tp cb	5.38	392.02
G	5.99	391.41
12	5.64	391.76
13-Tp cb	5.42	391.98
G	5.86	391.54
14	5.35	392.05
15-Tp cb	5.66	391.79
G	6.53	390.87
16	5.43	391.97
17	5.33	392.07
18	5.00	392.40
19	5.16	391.24

North Flowline Drain around N.W. Return	6.29	391.11
West " " " "	6.42	390.98
North " " N.E. "	6.12	391.28
East " " " "	6.17	391.23

Note - North ends of drains are 1' south of N.W. Collier
 West end & East end are 7.5' from respective Property lines
 Diving over drains is flush with returns.

T 397.40

42

T.P.
 +448 395.68
 B.M. N.E.S.R. Collier & Felton
 -580 389.88

11-8-29

X-section Intersections of

Collier Ave with 33rd - Felton

34th - Hartley. Collier is 60' wide 12' obs
9' 1/4 SJ. C. Bliss
Lynn Drebert
Chuck Ranney

T 393.98

43

B.M. N.E.B.P. Collier x Felton

389.96

+ 402

π 393.98

33rd x Collier

W.L. 33rd - 60' wide - 12' obs - 9' 1/4 S

N Tpcb

4.72 389.26

G

5.28 388.70

1/4

4.75 389.23

φ

4.67 389.31

1/4

4.99 388.99

G

5.47 388.51

S Tpcb

5.02 388.96

W cb 33rd

S.L. Tpcb

5.02 388.96

G

5.46 388.52

cb

5.39 388.59

1/4

5.30 388.68

φ

5.21 388.77

1/4

5.17 388.81

cb

5.31 388.67

G

5.23 388.75

W.L. Tpcb

4.76 389.22

W 1/4 33rd

N

4.67 389.31

cb

4.72 389.26

1/4

4.73 389.25

φ

487 389.11

1/4

486 389.12

cb

482 389.16

S

490 389.08

φ 33rd

S

474 389.24

cb

4.73 389.25

1/4

4.68 389.30

φ

4.62 389.36

1/4

4.63 389.35

cb

4.59 389.39

N

4.50 389.48

E 1/4 33rd

N

4.51 389.47

cb

4.74 389.24

1/4

4.79 389.19

φ

4.75 389.23

1/4

4.82 389.16

cb

4.83 389.15

S

4.89 389.09

E cb 33rd

S.L. Tpcb

4.78 389.20

G

5.28 388.70

cb

5.20 388.78

1/4

5.14 388.84

π 393.98

¢	5.12	388 76
1/4	5.06	388 92
cb	5.06	388 92
G	4.93	389 05
N.L. Tpcb	4.43	389 55
E.L. 33rd		
N Tpcb	4.54	389 44
G	4.97	389 01
1/4	4.63	389 35
¢	4.62	389 36
1/4	4.90	389 08
G	5.28	389 70
S Tpcb	4.84	389 14

Felton & Collier

B.M. N.E. B.P. Felton & Collier 389.96

+ 4.21

π 394.17

W.L. Felton 7-60' wide 12' cbs 9' 1/4s

N Tpcb	3.72	390.45
G	4.07	390.10
1/4	3.84	390.33
¢	3.82	390.35
1/4	4.05	390.12
G	4.46	389.71
S Tpcb	4.12	390.05

π 394.17

44

W cb Felton

S.L. Tpcb	4.11	390.06
G	4.58	389.59
cb	4.55	389.62
1/4	4.50	389.67
¢	4.43	389.74
1/4	4.35	389.82
cb	4.32	389.85
EG	4.19	389.98
N.L. Tpcb	3.68	390.49

w 1/4 Felton

N	3.89	390.38
cb	3.90	390.27
1/4	4.02	390.15
¢	4.10	390.07
1/4	4.13	390.04
cb	4.21	389.96
S	4.24	389.93

¢ Felton

S	4.22	389.95
cb	4.19	389.98
1/4	4.12	390.05
¢	4.06	390.11
1/4	4.01	390.16
cb	3.95	390.22
N	3.89	390.28

T 394.17

E 1/4 Felton

N	419	389 98
cb	425	389 92
1/4	428	389 89
♀	430	389 87
1/4	442	389 75
cb	446	389 71
S	451	389 66

E cb Felton

S.L. Tpcb	450	389 67
G	502	389 15
cb	502	389 15
1/4	491	389 26
♀	481	389 36
1/4	476	389 41
cb	473	389 44
G	475	389 42
N.L. Tpcb	422	389 95

E.L. Felton

N Tpcb	406	390 11
G	462	389 55
1/4	437	389 80
♀	432	389 85
1/4	451	389 66
G	499	389 18
S Tpcb	448	389 69

45

Collier + 34th

B.M. N.E.B.P. Felton + Collier 389.96
+ 6.02

T 395.98

W.L. 34th - 60' wide 12' abs 9' 1/4s

N Tpcb	498	391 00
G	541	390 57
1/4	501	390 97
♀	483	391 15
1/4	500	390 98
G	550	390 48
S Tpcb	504	390 94

W cb 34th

S.L. Tpcb	502	390 96
G	549	390 49
cb	545	390 53
1/4	542	390 56
♀	538	390 60
1/4	536	390 62
cb	539	390 59
G	537	390 61
N.L. Tpcb	489	391 09

W 1/4 34th

N	485	391 13
cb	493	391 05
1/4	506	390 92

π 39598

¢	5.13	390 85
1/4	5.15	390 83
cb	5.14	390 84
S	5.12	390 86
¢ 34th		
S	5.09	390 88
cb	5.00	390 98
1/4	4.99	390 99
¢	4.93	391.05
1/4	4.90	391 08
cb	4.81	391 17
N	4.73	391 25
E 1/4 34th		
N	4.88	391 10
cb	4.95	391 03
1/4	5.00	390 98
¢	5.09	390 89
1/4	5.16	390 82
cb	5.18	390 80
S	5.25	390 73
E cb 34th		
S.L. Tpcb	5.27	390 71
G	5.66	390 32
cb	5.65	390 33
1/4	5.59	390 39

π 395.98

46

¢	5.49	390 49
1/4	5.41	390 57
cb	5.35	390 63
G	5.23	390 75
N.L. Tpcb	4.72	391 26
E.L. 34th		
N Tpcb	4.72	391.26
G	5.26	390 72
1/4	4.95	391 03
¢	4.94	391 04
1/4	5.25	390 73
G	5.79	390 19
S Tpcb	5.32	390 68 ✓
T.P.		-4.78 391.20
45.68		
π 396.88		
Calloway + Hawley Blvd.		
W.L. Hawley - 100' wide - 25 cbs - 12 1/2" 1/45		
N Tpcb	4.96	391 92
G	5.84	391 04
1/4	4.89	391 99
¢	4.70	392 18
1/4	4.76	392 12
G	5.20	391 68
S Tpcb	4.74	392 14

⌈ 396.88

W.L. Hawley + B = West end Culvert around NW Ret.	1/4		
S Tpcb	4.68	392.20	
G	5.19	391.69	
1/4	4.73	392.15	
⊥	4.76	392.12	
1/4	4.73	392.15	
Tpcb + Paving over Culvert + Flush	4.93	391.95	
Flowline Culvert	5.73	391.15	
Wcb Hawley			
N.L. Tpcb	5.02	391.86	
G	5.63	391.25	
H = Flowline culvert around rd	5.65	391.23	
H = Tpcb + paving ^{over culvert} Flush	5.02	391.86	
cb	4.78	392.10	
1/4	4.56	392.32	
⊥	4.66	392.22	
1/4	4.72	392.16	
cb	4.98	391.90	
G	5.33	391.55	
S.L. Tpcb	4.69	392.19	
W 1/4 Hawley			
S	4.69	392.19	
cb	4.70	392.18	
1/4	4.66	392.22	
⊥	4.55	392.33	

⌈ 396.88

47

	1/4	4.41	392.47
	cb	4.50	392.38
	N	4.66	392.22
⊥ Hawley			
	N	4.45	392.43
	cb	4.42	392.46
	1/4	4.32	392.56
	⊥	4.35	392.53
	1/4	4.38	392.50
	cb	4.42	392.46
	S	4.46	392.42
E 1/4 Hawley			
	S	4.58	392.30
	cb	4.50	392.38
	1/4	4.40	392.48
	⊥	4.42	392.46
	1/4	4.44	392.44
	cb	4.62	392.26
	N	4.79	392.09
Ecb Hawley			
	N-L. Tpcb	4.75	392.13
	G	5.41	391.47
	H = Flowline Culvert around rd.	5.48	
	H = Tpcb + Paving over culvert Flush	4.74	
	cb	4.75	392.13

T 396.88

48

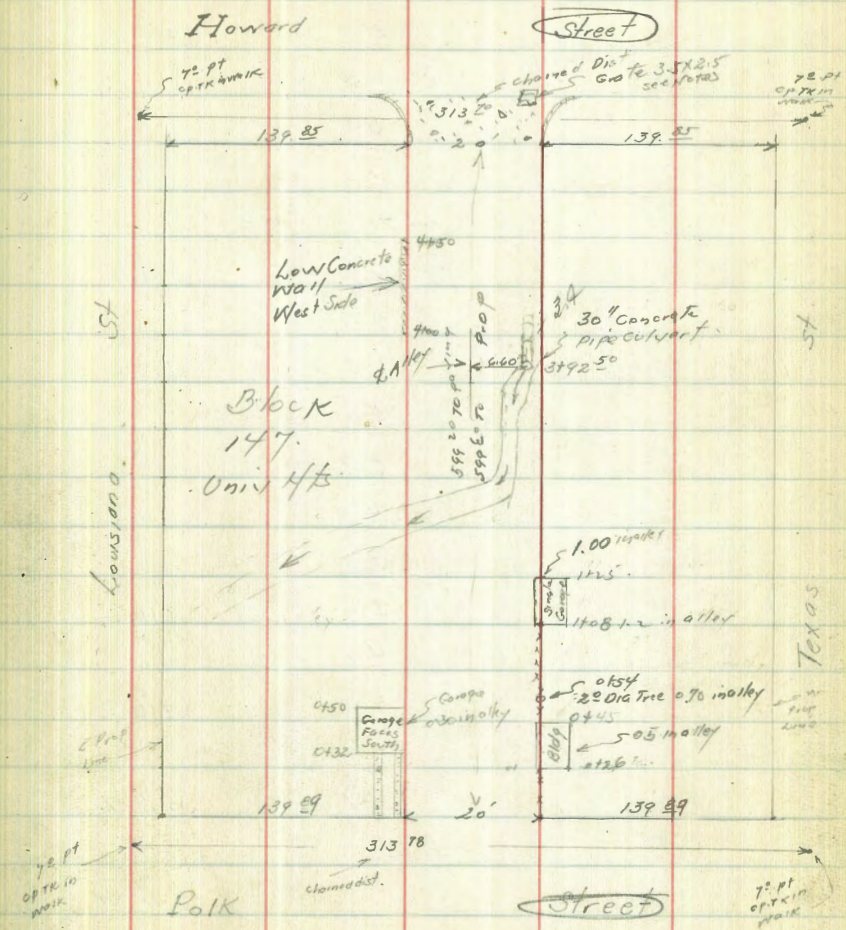
1/4	456	392 32
£	452	392 36
1/4	450	392 38
cb	4.76	392.12
G	5.18	391.70
S.L.Tpcb	458	392 30
East E cb + 17 = End of Culvert around NE Return		
S Tpcb	4.43	392 45
G	4.97	391 91
1/4	4.53	392 35
£	4.47	392 41
1/4	4.56	392 32
G = Flowline Culvert	5.51	391 37
N Tpcb & Paving Flush	4.75	392 13
E.L. Harley		
N Tpcb	4.70	392 18
G	5.26	391.62
1/4	4.66	392 22
£	4.39	392.49
1/4	4.55	392 33
G	5.09	391 79
S Tpcb	4.46	392.42
T.P.		- 5.69 391 19
+ 4.62 395.81		
B.M. N.E.B.P. Felton & Collier		- 5.83 389.98
		Correct 389.76

B. Bliss
J. Overmit
J. Jacobs 2009
Dec 7 1929

X Sections Alley Block 147 Univ. Hts
between Howard + Polk, Louisiana + Texas

BM.	0 33	325.28		324.95	SE RP TEXAS POLK
T.P.	336	315.56	13 08	312.20	
		N line of Polk = 00			
E		3.4		312.1	
+3		3.6		312.0	
+6		4.4			
E		4.4		311.1	
+9		4.4			
N		4.9		310.6	
		07 25			
W		55		310.0	
+1		48			
+6		48			
E		4.7		310.8	
+3		4.8			
+6		4.3			
E		4.0		311.5	
		07 40			
E		4.3		311.2	
+1		4.3			
+3		4.8			
+5		4.8			
E		4.9		310.6	
+7		4.8			
N		5.2		310.3	

Plotted Dec. 12. 29 - C.B.H.



	H.I.	-	elev
	315.56		
	0755		
W	4.9	310.6	
+6	5.1		
⊕	4.8	310.7	
+3	4.8		
+8	3.9		
E	3.6	311.9	
	0770	From E. 4	
E	3.9	311.6	
+7	4.3		
⊕	4.5	311.0	
+4	4.6		
+6	4.3		
W	4.9	310.6	
	0752		
W	5.2	310.3	
+4	4.9		
⊕	4.8	310.7	
+3	4.6		
E	4.1	311.4	
	1700		
E	4.1	311.4	
+2	4.1		
+5	4.6		
+7	4.7		
⊕	5.1	310.4	

	H.I.	-	elev
	315.56		
			50
			5.0
			5.2
			5.5
	1713		310.0
			5.8
			309.7
			5.3
			5.4
			4.9
			5.0
			310.5
			4.1
			3.4
			312.1
	1720	Single Garage on East	
	1 st in alley Dist floor	⊕	3.8
			311.7
	1725		
			4.0
			311.5
			4.3
			5.0
			310.5
			5.4
			5.4
			6.0
			309.5
	1750		
			5.6
			309.9
			5.2
			5.1
			310.4
			4.5
			4.5
			311.0

	+	H.I.	-	E/ev
		315.56		
			1472	
E			51	3104
+4			53	
+8			53	
⊘			55	3100
+4			6.1	
W			6.3	3092
			1475	
W			8.0	3075
+2			7.9	
+5			6.6	
⊘			5.9	3096
+2			5.5	
E			5.3	3102
TP	4.94	314.88	5.62	309.94
			1477	
E			4.6	3102
+5			5.0	
⊘			5.2	3096
+5			6.8	
+7			7.1	
+8			6.7	
W			6.7	308.1
			1480	
W			5.8	309.0
+1			6.3	

	H.I.	
	314.88	
		51
		7.0
		5.5
		309.3
		5.1
		4.9
		4.7
		310.1
		1486
		4.5
		310.3
		4.9
		5.2
		6.3
		308.5
		6.8
		6.4
		5.7
		4.3
		310.5
		2/00
		4.5
		310.4
		5.1
		5.5
		6.5
		6.5
		308.3
		5.5
		5.0
		3.7
		311.1
		2/10
		3.6
		311.2
		3.8

HI
31488

+4	4.8	
+6	5.4	
+8	5.6	
⊘	6.5	308.3
+5	6.4	
+6	5.4	
+8	5.2	
K	4.6	310.2
	2+25	
W	4.5	310.3
+4	5.5	
+5	6.4	
+7	6.9	
⊘	6.2	308.6
+2	5.5	
+5	5.2	
+8	4.3	
E	4.0	310.8
	2+40	
E	5.2	309.6
+5	5.5	
+8	5.3	
⊘	6.2	308.6
+3	6.7	
+5	6.2	
+6	5.2	

+

HI
31488

-

Elev

52

W	4.7	310.1
	2+50	
K	4.9	310.0
+4	5.5	
+5	6.3	
+7	6.6	
+9	6.1	
⊘	5.6	309.2
+6	5.5	
E	5.4	309.4
	2+75	
E	5.2	309.6
+5	5.5	
⊘	5.1	309.7
+1	6.4	
+6	6.3	
+7	5.4	
K	4.6	310.2
	3+00	
K	4.6	310.2
+1	4.6	
+3	5.5	
+5	6.5	
⊘ on Rim of Sewer M. H.	5.83	309.05
⊘ on Ground	6.5	308.3
+2	5.4	

HZ
31488

45	48		W
E	44	3104	
	3112		W
E	44	3104	+5
+5	51		+9
+9	64		⊘
⊘	65	3089	+1
+2	64		+6
+5	56		+7
W	48	3100	E
	3125		
K1	50	3098	E
+5	50		+2
+7	55		+3
+8	60		+7
⊘	64	3084	+8
+4	63		⊘
+5	49		+5
E	44	3104	W
	3150		
E	47	3101	W
+4	50		+5
+5	62		⊘
⊘	61	3087	+5
+2	46		+6
+5	44		+6

+ 6⁸⁰ Flowline inside
of current 2.5 dia.

HZ
31488

E/W

53

	42	3106
	3175	
	42	3106
	40	
	42	
	48	3100
	50	
	50	
	38	
	35	3113
	3182	
	39	3110
	39	
	67	
	66	
	54	
	41	3107
	34	
	34	3115
	3192 ⁵⁰	
	32	3116
	31	
	28	3120
	39	
	66	
	657	308.31

	HI	
	31488	
t8	6.6	
t9	4.2	
E	4.2	310.6
	3193	
E	3.1	311.7
t2	3.7	
t3 ^{Top of Pipe}	2.6	
t5	3.9	
Φ	2.9	312.0
t5	3.2	
W	3.1	311.7
	4100	
-0.30 Top concrete wall	2.84	312.04
X	2.9	312.0
t5	3.0	
Φ	3.0	311.8
t5	3.2	
E	3.0	311.8
	4125	
E	2.3	312.5
t3	2.8	
t5	2.4	
Φ	2.5	312.4
t5	2.3	
W	2.4	312.4
t0.40 Top wall	2.24	312.64

	HI	Elev
	31488	54
	4450 East	
	2.08	
	2.4	312.4
	2.3	
	1.8	
	2.1	312.7
	2.1	
	1.2	313.6
	4445 Garage on East	
	9 ^o Back Int floor Φ	1.7
	4470	313.1
	1.3	313.5
	1.6	
	1.9	313.0
	1.8	
	1.9	313.0
	4475	
	1.7	313.1
	1.8	
	1.5	
	1.5	313.3
	1.4	
	1.3	313.5
	5100	
	0.8	314.0
	0.7	

HZ
314.88

Q		0.8	314.0	
+5		0.8		
+7		1.2		
N		1.2	313.6	
TP	7.46	321.71	0.63	314.25
		54.07		
N		8.2	313.5	
+2		7.9		
+4		7.2		
E		7.4	314.3	
+5		7.4		
E		7.4	314.3	
		54.8		
E		7.1	314.6	
+5		7.1		
E		7.0	314.7	
+5		6.8		
+7		7.2		
N		7.0	314.7	
		54.25	Fence at alley	
N		6.7	315.0	
+4		6.4		
Q		6.8	314.9	
+6		6.8		
+8		6.1		
E		6.1	315.6	

HZ
321.71

		54.40	55
E		5.5	316.2
+5		5.8	
Q		5.7	316.0
+5		5.5	
N		5.5	316.2
		54.50	
	-0.60 TOP concrete wall	3.55	318.16 ✓
N		5.0	316.7
+4		4.8	
E		5.0	316.7
+5		5.1	
E		5.2	316.5
		54.60	
E		4.8	316.9
+5		4.8	
E		4.6	317.1
+4		4.2	
+7		3.6	
N		3.4	318.3
		3.35	318.36
		54.70	
N		3.3	318.4
+5		3.4	
+8		4.2	
Q		4.4	317.3

41.
321.71

41.
321.71

Elev.

56

+5	45	
+8	45	
E	4.8	316.9
	4775 S. End of walk on West	
Parallels West line	283	318.88
	4783	
E	4.4	317.3
+5	45	
+	43	317.4
+3	41	
+6	3.8	
W	3.4	318.3
+0-10 walk	3.05	318.66
	4798	=
-0-10 walk	3.33	318.38
W	3.4	318.3
+2	3.5	
+3	3.9	
+5	4.3	
+	45	317.2
+5	48	
E	4.7	317.0
	5799 20' to S line of Howard	
	Edge of Paving Stone of Howard	
E Top of	4.80	316.91
G	4.82	316.89

+7		4.88	
+		4.68	317.03
+5		4.19	
G		3.72	317.99
Top of		3.84	318.37
		Section on Curb line of Howard	
W		4.32	317.39
+5		4.76	
+		5.24	316.47
+5 N. Edge of Gate		5.72	315.99
+8.5 E " " "		5.87	315.84
E		5.77	315.94
+15		6.56	
check BM	4.48	322.44	375
TP BM	5.91	327.18	117
check		2.23	324.95
			324.95 NO Error
			SEBP Texas Howard = 318.07 - 20' error
			SEBP Texas Park

Nutmeg St. Cross Section

29th St to Dale

See Page 16 For Sketch

300.87

1-4-30
Dillon
McHale
Port Perry
Perryman
57

For Old Datum See Page 16

BM	191	300.87	298.96	Nutmeg St	120 F		294.2
				77' East of E.L. 29th St			
		8.0	292.8			6.5	294.3
	+L	7.8	293.0			8.5	292.3
	+15.45 = S	7.3	293.5			8.7	292.1
	+24.5 = Gutter	6.6	294.2			8.8	292.0
	+21.5 = Top Conc. Wall	4.73	296.14			9.0	291.8
	+36.9 = H	4.8	296.0			8.9	291.9
				88' E of E.L. 29th St - P.I. 13.5' Rod Ch. 1/2" Nutmeg		8.6	291.2
	H on Conc. Wall Yardage	4.83	296.04			10.8	290.0
	+0.1 Gutter " " E	6.1	294.7			11.8	284.0
	+L	7.0	293.8		127' E - H.L. Alley Front		
	+15.35 = S	7.9	293.0			16.8	284.0
	+11.7	8.2	292.6			15.1	285.7
	+30.7 = S L	8.5	292.3			8.7	292.1
	+35.7	10.8	290.8			8.9	292.0
						9.8	291.6
						9.3	291.5
	-7.0	15.5	285.3			9.1	291.7
	-1.0	11.7	289.1			8.8	291.99
	-5	9.3	291.5		125' E - S. Alley		
	J	9.2	291.6		H on Pavement	9.4	291.45
	+L	9.0	291.8			9.8	291.0
	+15.3 = S	8.8	291.0			9.9	291.0
	+1.9	8.3	292.5			9.5	291.3
	+24.6	7.3	293.5			9.1	291.2

30087

+30.2 = 5	10.1	290.7
+34	10.0	290.8
+45.2	17.3	283.5
TP	1.90	292.23
	143 F = E.L. Alley	10.54
		290.33
-15	10.3	281.9
5	1.6	290.6
+6	1.4	290.8
+151 = 8	1.7	290.5 ^{1/2}
+24.2	1.6	290.6
+30.2 = 11	0.92	291.31
	118 F	
11.5	1.0	291.2
H	1.3	290.9
+6	1.7	290.5
+15 = 8	1.9	290.3
+24	1.8	290.4
+30 = 5	2.4	289.8
+45	10.8	281.4
	125 F	
-15	12.6	279.6
5	5.6	286.6
+6	5.1	286.8
+15 = 8	4.4	287.8
+24	1.5	287.7
+30 = 11	1.2	288.0

292.23

+3.5	3.5	288.7
	185 F	
-5	5.8	286.4
11	8.2	284.0
+6	10.3	281.9
+14.8 = 8	11.1	281.1
+23.6	11.7	280.5
+29.6 = 5	12.1	280.1
+39.6	14.8	277.4
+44.6	15.6	276.6
	200 F	
-15	17.5	274.7
5	16.0	276.2
+6	14.9	277.3
+14.8 = 8	13.6	278.6
+23.6	12.8	279.4
+29.6 = 5	10.7	281.5
+34.6	9.0	283.2
TP	3.12	283.31
	280 F	
-5	5.0	278.3
11	6.3	277.0
+6	8.4	275.1
+14.7 = 8	9.8	273.5
+23.6	11.0	272.3
+29.6 = 5	11.6	271.7
+44.6	14.7	268.6

58

60' wide
50' elev
10' h/s

Sunset Cliffs Blvd X Sec

Voltaire to W. Pi. Loma Blvd.

3-4-30
miller

30.14

0+06.5 = St. End drive dipped to curb line on E.

BM. B.P.	4.55	30.24	25.59
N. curb line Voltaire St			
W. emt. cl.	4.56	25.58	
W. gutter parmt.	5.24	24.88	
W. ch. line "	5.24	24.88	
" "	5.19	24.95	
♀ "	5.15	24.99	
" "	5.02	25.12	
E. ch. line "	4.94	25.20	
E. line "	4.83	25.31	
2' E. of E. line gutter parmt.	4.79	25.35	
" " " " " emt. cl.	4.03	26.11	
14' N. = N. line Voltaire St 0+00			
= 5' End New. walk on E.			
E. line on New walk	3.87	26.27	
+ 5.5 = W. edge New walk	4.02	26.12	
E. emt. cl.	4.07	26.07	
gutter parmt.	4.79	25.35	
" "	4.62	25.52	
♀ "	4.61	25.53	
" "	4.80	25.34	
gutter "	5.04	25.10	
emt. cl. N.G.	4.53	25.61	
+ 4.5 = E. edge walk N.G.	4.52	25.62	
W. line W " " N.G.	4.35	25.79	
emt. curb on E. Fair bet. 0+00 + 0+06.5			
" " on W N.G. " 0+00 + 0+16.5			

Plotted 3/5/30
C.B.H.

S.W. Voltaire &
Sunset Cliffs Blvd

Return at W. Pi. Cor. Badly Broken
Return at N.E. Cor. Practically gone

W	4.4	25.7
+5.5	4.6	25.5
cl. N.G.	4.9	25.2
gutter	5.0	25.1
"	4.7	25.4
♀	4.5	25.6
"	4.7	25.4
gutter on dipped walk in drive	4.69	25.45
emt. drive 3" thick		
E. emt. cl. to E.	4.08	26.06
+ 4.5 = W. edge New walk	4.03	26.11
E. = E. " " "	3.87	26.27
0+16.5		
E. on E. edge New walk	3.91	26.23
+ 5.5 " W " " "	4.08	26.06
curb line on emt. drive	4.74	25.40
"	4.6	25.5
♀	4.5	25.6
"	4.7	25.4
gutter	5.0	25.1
emt. curb	4.65	25.49
+ 4.5 E. edge emt. walk N.G.	4.61	25.53
W. W. " " " N.E.	4.47	25.67
emt. curb on W. Fair bet. 0+16.5 ♀ 0+81		
" " " " " N.G. " 0+81 ♀ 1+00		
" " " " " N.E. " 0+00 ♀ 1+00 = S. Line Alley		
" " " " " E N.G. " 0+42.5 ♀ 1+00		
" " " " " E & W Fair " 1+15 S. Line Alley ♀ 2+15 Badly Cracked.		

59

30.14
New walk on E
0+42 = N. End Drive Dipped to el. line on E.

N. on N. edge cont. walk	4.45	25.69
+5.5 S " " "	4.52	25.62
cont. el.	4.69	25.45 ✓
gutter	5.1	25.1
"	4.7	25.4
⊕	4.4	25.7
"	4.6	25.5
on dipped Drive 3" Thick.	4.77	25.37
cont. el. to E. N.E.	4.16	25.98
+4.5 NW cor New Walk	4.07	26.07
E. line NE " " "	3.89	26.25
cont. el. on E. N.E. Bet 0+42 ² + 0+66		
" " " " Fair " 0+66 + 0+96		
No Alley Returns in to Alley		
0+66		
E	4.0	26.1
cont. el.	4.28	25.86 ✓
gutter	4.8	25.3
"	4.6	25.5
⊕	4.5	25.6
"	4.8	25.3
gutter	5.1	25.0
cont. el.	4.72	25.42 ✓
+4.5 walk	4.58	25.56
W. on "	4.58	25.56

30.14
0+81

Sunset Cliffs Blvd. **60**

W. walk	4.60	25.54
+5.5 " "	4.68	25.46
cont. el.	4.74	25.40 ✓
gutter	5.2	24.9
"	4.9	25.2
⊕	4.5	25.6
"	4.6	25.5
gutter	4.8	25.3
cont. el.	4.32	25.82 ✓
E.	4.0	26.1
0+96 ²		
E. cont. el.	4.26	25.88 ✓
1+00 = S. Line Alley		
E	4.0	26.1
+9	4.3	25.8
E. el. line	4.8	25.3
"	4.6	25.5
⊕	4.4	25.7
"	4.9	25.2
W. el. line	5.3	24.8
+1	4.9	25.2
W.	4.6	25.5

30.14

1+15 = N. Line #1164

N. on walk	4.61	25.53
+55 " "	4.78	25.36
el	4.8	25.3
gutter	5.1	25.0
"y	4.8	25.3
¢	4.4	25.5
"y	4.6	25.5
gutter	4.7	25.4
E. ent. el N.G.	4.35	25.79 ✓
+4.5 walk	4.33	25.81
E	4.25	25.89

ent. el. on W. Fair	1+18 +	1+37
" " " " N.G.	1+37 +	2+05
" " " " E Fair	1+23 +	1+86
" " " " N.G.	1+86 +	2+05

P.C. Now. ent. el
Returns Lotus St

P.C. Now. ent. el
Return 20' Radius

E. ent. el	1+18	4.37	25.77 ✓
------------	------	------	---------

W. ent. el	1+23		
------------	------	--	--

E. on walk	1+37	4.21	25.93
------------	------	------	-------

+55 " "		4.36	25.78
---------	--	------	-------

E. ent. el		4.43	25.71 ✓
------------	--	------	---------

gutter		4.9	25.2
--------	--	-----	------

"y		4.8	25.3
----	--	-----	------

30.14

Sunset Cliffs Blvd.

¢	4.8	25.3
"y	5.0	25.1
gutter	5.4	24.7
ent. el	4.91	25.23
+4.5. on walk	4.89	25.55
W. " "	4.74	25.40

1+70

W. on walk	4.79	25.35
+55 " "	4.92	25.22
W. el N.G.	4.9	25.2
gutter	5.4	24.7
"y	5.2	24.9
¢	5.0	25.1
"y	5.0	25.1
gutter	5.0	25.1
ent. el	4.49	25.65 ✓
+4.5 on walk	4.32	25.82
E " "	4.31	25.83

1+86.

E. on walk	4.34	25.76
+5.5 " "	4.49	25.65
ent. el	4.57	25.57 ✓
gutter	3.2	24.9
"y	5.0	25.0
¢	5.1	25.0
"y	5.3	24.8

30.14

1+86 (con)

gutter	5.4	24 7
cl. N.G.	5.0	25 1
+4.5 on walk	4.97	25 17
W.	4.85	25 29
R+05 = End New 20' Radius Returns into Lotus St.		
W.	4.8	25 3
W+0.3 = W. edge New walk	4.85	25 29
+5' E " " "	4.97	25 17
+5.5 E " old "	4.95	25 19
N. emt. cl	5.07	25 07 -
gutter	5.6	24 5
"	5.4	24 7
♀	5.2	24 9
"	5.2	24 9
gutter	5.3	24 8
emt. cl	4.58	25 56 ✓
+4.5 = W. edge old walk	4.52	25 62
+5.0 " " New "	4.51	25 63
E. = E " " + old walk	4.44	25 70
R+15 = S. Line Lotus St Paved ^{50' wide} _{30' Adv.}		
R.7 E. of E. cl. line = emt. cl. Ret	4.55	25 59 on curve ✓
gutter s. edge parmt.	5.06	25 08 ✓
E. cl. line " " "	5.03	25 11
" " " "	4.98	25 16
♀ " " "	5.04	25 10
" " " "	5.21	24 93

30.14

Sunset Cliffs Blvd.

61

W. cl. line s. edge parmt.	5.47	24 67
gutter " " "	5.55	24 59 -
R.7 W. of W. cl. line = emt. cl. Return	5.09	25.05 on curve
10' N. of S. line Lotus = S. cl. line		
10' N. W. line = P.C. 20' Rad. Ret.	5.14	25.00 emt. cl. -
" " " " " "	5.63	24.51 gutter parmt
W. Line	5.51	24.63 " "
W. cl. "	5.42	24.72 " "
"	5.33	24.81 " "
♀	5.24	24.90 " "
"	5.15	24.99 " "
E. cl. line	5.14	25.00 " "
E. Line	5.04	25.10 " "
+10 = P.C. 20' Rad Ret	4.96	25.18 " " -
" " " " "	4.47	25.64 emt. cl. -
E. cl. line Lotus		
E-10' = P.C. 20' Rad Ret	4.43	25.71 emt. cl. -
" " " " " "	4.93	25.21 gutter parmt
E	4.90	25.24 " "
cl. line	4.84	25.30 " "
"	4.86	25.28 " "
♀	4.91	25.23 ✓ " "
"	5.09	25.05 " "
cl. line	5.31	24.83 " "
W.	5.52	24.62 " "
+10 = P.C. 20' Rad Ret.	5.63	24.51 " "
" " " " " "	5.13	25.01 emt. cl.

30.14

0+00 = N. Line Lotus St.

R.7 W. of E. ch. line = emt. ch. Ret	5.08	25.06 ✓
gutter N. edge parmt	5.51	24.63 -
ch. line " " "	5.43	24.71
" " " "	5.13	25.01
♀ " " "	4.91	25.23 ✓
" " " "	4.84	25.26
ch. line " " "	5.01	25.13
gutter " " "	5.05	25.09 ✓
R.7 E. of E. ch. Line = emt. ch. Ret.	4.53	25.61 ✓

Curb & Walk on E+W. including Returns at.

West Pt. Loma Blvd N.G. Bet. Lotus

+ West Pt. Loma Blvd.

0+10 = E.C. New. 20' Radius Returns

E. on New. walk	4.48	25.66
E. " Old "	4.36	25.78
+5.0 New "	4.50	25.64
+5.5 Old "	4.50	25.64
E. emt. ch.	4.56	25.58 ✓
gutter	5.1	25.0
" " "	5.1	25.0
♀ " " "	4.9	25.2
" " " "	5.2	24.9
gutter	5.5	24.6
emt. ch	5.14	25.00
+4.5 old walk	5.04	25.10

30.14

Sunset Cliffs Blvd.

62

+5.0 New walk	5.15	24.99
W. " "	5.11	25.03
W. old "	4.95	25.19
0+40		
W. walk	5.14	25.00
+5.5 " "	5.25	24.89
emt. ch	5.32	24.82 -
gutter	6.1	24.0
" " "	5.5	24.6
♀ " " "	5.1	25.0
" " " "	5.1	25.0
gutter	5.4	24.7
emt. ch	4.73	25.41 ✓
+4.5 walk	4.62	25.52
E. " "	4.47	25.67
0+70		
E. on walk	4.64	25.50
+5.5 " "	4.71	25.43
emt. ch	4.87	25.27 ✓
gutter	5.6	24.5
" " "	5.4	24.7
♀ " " "	5.3	24.8
" " " "	5.8	24.3
gutter	6.2	23.9
emt. ch	5.57	24.57 ✓
+4.5 on walk	5.45	24.69
W. " "	5.32	24.82

30.14
1+00 = S. Line Alley on E.

W on walk	5.58	24 56
+5.5 " "	5.68	24 46
emt. cl	5.81	24 33 ←
gutter	6.4	23 7
" "	6.2	23 9
⊕	5.8	24 3
" "	5.7	24 4
gutter	5.7	24 4
emt. cl	4.85	25 29 ✓
+4.5 on walk	4.87	25 27
E " "	4.64	25 48
E-24 Ctr Sewer Man Hole	1+07 E = ⊕ Alley	
E	4.63	25 51
	4.9	25 2
cl	5.6	24 5
" "	5.8	24 3
⊕	5.8	24 3
" "	6.4	23 7
gutter	4.6	23 5
emt. cl	5.84	24 30 /
+4.5 walk	5.73	24 41
W. " "	5.60	24 54

S. Line Alley on E.
1+15 } P.F. W. cl. Sunset Cliff Blvd + S Line W. Pt. Loma Blvd

W. emt. cl	5.88	24 26 ✓
gutter	6.7	23 4
" "	6.5	23 6
⊕	5.7	24 4

Sunset Cliffs Blvd.

30.14

63

" "	6.0	24 1
gutter	5.7	24 4
emt. cl	4.94	25 17 ✓
+4.5 walk gone	4.9	25 2
E on " "	4.75	25 39

No Alley Returns

1+15 on W. cl. Line

1+27 " E. " "

} S Line West Pt. Loma Blvd.

E on walk	4.75	25 39
+5.7 " "	4.80	25 34
emt. cl	5.05	25 09 ✓
gutter	6.1	24 0
" "	6.1	24 0
⊕	5.8	24 3
" "	6.4	23 7
gutter	6.7	23 4
emt. cl	5.89	24 25
+4.7 on walk.	5.75	24 39
W. " "	5.63	24 51

T.P.	6.32	33.34	3.12	27.02	3 W. Ebers
chk B.M. B.P.			3.27	30.07=30.06	+ Voltmeter

60' wide
10' chs.
10' 4/4s.

38th St X See
National to Alpha.

9-17-30 Miller
Sommerhaugen
Osborne

80.10

100'S

64

B.M.	3.52	8 0.10	76.58	52.38 ^m National.
00 = S. Line National				
E. ent. el		3.48	76.62	
gutter part.		4.24	75.82	
"4 "		4.11	75.99	
⊕ "		4.12	75.98	
"4 "		4.45	75.65	
gutter "		4.87	75.29	
w. ent. el		4.49	75.61	
5'S = N End driveway on W.				
w. el. gutter		4.93	75.17	
50'S.				
w. ent. el-gutter		5.08	75.02	
"4		4.6	75.5	
⊕		4.2	75.9	
"4		4.3	75.8	
gutter		4.5	75.6	
E. ent. el		3.85	76.25	
77.9 = S. End driveway on W.				
w. ent. el in gutter		5.13	74.97	
" "	79.5			
w. ent. el. to S.		4.73	75.37	

Cbs & Conc.
Gutters Platted
Sept. 2022-1930
CBM

E. ent. el	4.15	75.95
gutter	4.8	75.3
"4	4.5	75.6
⊕	4.4	75.7
"4	4.8	75.3
gutter	5.4	74.7
E. ent. el	4.83	75.27
141.2 S = N. Line Alley		
w. line ent. el	4.72	75.38
" " dirt	5.1	75.0
w. el	4.94	75.16
gutter	5.3	74.8
"4	5.0	75.1
⊕	4.7	75.4
"4	4.7	75.4
gutter	5.0	75.1
E. el	4.40	75.70
S. line ent. el	4.13	75.97
" " dirt	4.7	75.4
157.25 = S. Line Alley		
E. line dirt	4.8	75.3
" " ent. el	4.38	75.72
E. el	4.58	75.52
gutter	5.1	75.0
"4	4.8	75.3
⊕	4.7	75.4

80.10
157.2 S. (con)

"4	5.1	75 0
gutter	5.4	74 7
w. cl	4.97	75 13
w. line ent. cl	4.72	75 38
" " dirt	5.2	74 9

200'S

w. cl	5.15	74 95
gutter	5.6	74 5
"4	5.2	74 9
⊥	4.9	75 2
"4	5.1	75 0
gutter	5.4	74 7
E. cl	4.90	75 20

250'S

E. cl	5.29	74 81
gutter	5.9	74 2
"4	5.4	74 7
⊥	5.2	74 9
"4	5.5	74 6
gutter	5.9	74 2
w. cl	5.30	74 80

T.P. 3.6 78.40 5.36 74.74 inside Return

298.53 = N. Line Newton 180' width
14' chs
13' 11/2

w. cl	3.79	74 61
gutter	4.5	73 9
"4	4.0	74 4

78.40

38th St

65

⊥	3.8	74 6
"4	3.9	74 5
gutter	4.5	73 9
E. cl	3.84	74 56

N. cl. line

E. line ent. cl	3.82	74 58
" " gutter	4.4	74 0
E. cl. line	4.1	74 3
"4	3.9	74 6
⊥	3.8	74 6
"4	4.0	74 4
w. cl. line	4.2	74 8
w. line ent. cl	3.87	74.53
" " gutter	4.5	73.9

N. "4

w. line	4.0	74.4
w. cl	4.0	74 4
"4	3.9	74 5
⊥	3.9	74 5
"4	3.9	74 5
E. cl	4.1	74 3
E. line	4.1	74 3

⊥ Newton

E. line	3.9	74 5
E. cl	3.9	74 5
"4	3.9	74 5

78.40
 4 Newton (con)

4	3.8	74.6
"4	3.9	74.5
w. el	3.9	74.5
w. line	3.8	74.6
s. "4		
w. line	4.0	74.4
w. el	4.0	74.4
"4	4.0	74.4
4	3.9	74.5
"4	3.9	74.5
E. el	3.9	74.5
E. line	4.1	74.3
s. el. line		
E. line gutter	4.4	74.0
" " el.	3.73	74.61
E. el line	4.0	74.4
"4	4.0	74.4
4	3.9	74.5
"4	4.0	74.4
w. el line	4.2	74.2
w. line gutter	4.4	74.0
" " el.	3.80	74.60
00 = s. line Newton		
w. el	3.90	74.50
gutter	4.7	73.7
"4	4.2	74.2

78.40

38" 54"

66

4	3.9	74.5
"4	4.1	74.3
gutter	4.4	74.0
E. el.	3.89	74.51
50.5		
E. el	4.27	74.13
gutter	5.0	73.4
"4	4.5	73.9
4	4.3	74.1
"4	4.5	73.9
gutter	4.8	73.6
w. el.	4.28	74.12
100.5		
w. el	4.55	73.85
gutter	5.2	73.2
"4	4.9	73.5
4	4.7	73.7
"4	4.9	73.5
gutter	5.3	73.1
E. el.	4.64	73.76
141.95 = N. line Alley		
E. line dirt	5.0	73.4
" " crit. el	4.69	73.71
E. el.	4.88	73.52
gutter	5.4	73.0
"4	5.1	73.3

78.40

141.9 S. (con)

♀	5.0	73 4
"4	5.2	73 2
gutter	5.3	73 1
w. el	4.80	73 60
w. line ent. el	4.63	73 77
" " dirt	4.8	73 6
157.9 S = S. line Alley		
w. line dirt	5.0	73 4
" " ent. el	4.78	73 62
w. el. 1	4.95	73 45
gutter	5.5	72 9
"4	5.3	73 1
♀	5.2	73 2
"4	5.2	73 2
gutter	5.4	73 0
E. el. 1	4.98	73 42
E. line ent. el	4.77	73 63
" " dirt	5.1	73 3

200' S.

E. el	5.31	73 09
gutter	6.0	72 4
"4	5.5	72 9
♀	5.4	73 0
"4	5.6	72 8
gutter	6.1	72 3
w. el.	5.26	73 14

78.40

250' S

38th St

67

w. el	5.64	72 76
gutter	6.3	72 1
"4	5.9	72 5
♀	5.6	72 8
"4	5.8	72 6
gutter	6.2	72 2
E. el	5.64	72 76
300' S = N. line Boston		
E. el	5.98	72 42
gutter	6.6	71 8
"4	6.0	72 4
♀	5.8	72 6
"4	6.1	72 3
gutter	6.5	71 9
w. el	5.95	72 45
N. el. line		
w. line ent. el	5.96	72 44
" " gutter	6.5	71 9
w. el. line	6.1	72 3
"4	6.1	72 3
♀	5.9	72 5
"4	6.0	72 4
E. el. line	6.5	71 9
E. line gutter	6.7	71 7
" " ent. el.	6.00	72 40

80' width
13' 1/2
4' chs.

78.40

N. 1/4

E. line	6.0	72 4
E. d. line	6.2	72 2
" "	6.0	72 4
⊕	5.9	72 5
" "	6.0	72 4
ch. line	6.1	72 3
W. line	6.4	72 0
⊕ Boston		
W. line	6.1	72 3
d. "	5.9	72 5
" "	5.9	72 5
⊕	5.9	72 5
" "	6.0	72 4
ch. line	6.1	72 3
E. "	5.8	72 6
S. 1/4		
E. line	5.9	72 5
ch. "	6.0	72 4
" "	5.9	72 5
⊕	5.8	72 6
" "	5.8	72 6
ch. line	5.8	72 6
W. "	6.0	72 4

78.40

38th St.

S. curb.

68

W. line cont. ch	5.95	72 45
" " gutter	6.7	71 7
ch. "	6.1	72 3
" "	5.8	72 6
⊕	5.8	72 6
" "	5.9	72 5
ch. line	6.3	72 1
E. " gutter	6.0	72 4
" " cont. ch	5.97	72 43
oo = S. Line Boston		
E. ch	5.98	72 42
cont gutter N. End	6.88	71 52
+ 3. W. gutter	6.61	71 79
" "	6.2	72 2
⊕	6.0	72 4
" "	6.1	72 3
+ 7. = E. gutter	6.65	71 75
cont. " N. End.	6.88	71 52
W. ch	5.98	72 42
20' S.		
W. ch	6.52	71 88
cont. gutter	7.43	70 97
+ 3. E. edge gutter	7.19	71 21
" "	6.7	71 7
⊕	6.5	71 9
" "	6.6	71 8

No walk on W. S. of Boston
See Page 69 for Levels

78.40
20's (con)

E. 1/4 + 7 = wedge amt. gutter	7.15	71.25
" "	7.39	71.01
E. eb	6.49	71.91
40's Brk		
E. eb	7.33	71.07
amt. gutter	8.22	70.10
+ 3' wedge "	7.97	70.43
1/4	7.5	70.9
¢	7.4	71.0
1/4	7.6	70.8
+ 7. = E. amt. gutter	8.02	70.38
" "	8.23	70.17
W. eb	7.32	71.08
60's Brk		
W. eb	8.53	69.87
amt. gutter	9.42	68.98
+ 3 = E. line gutter	9.22	69.18
1/4	8.8	69.6
¢	8.7	69.7
1/4	8.8	69.6
+ 7 = W. edge amt. gutter	9.11	69.29
amt. gutter	9.40	69.00
E. eb	8.48	69.92

78.40

38th St

80's Brk

69

E. eb	9.96	68.44
amt. gutter	10.90	67.50
+ 3 = W. edge gutter	10.61	67.79
1/4	10.3	68.1
¢	10.1	68.3
1/4	10.2	68.2
+ 7 = E. edge gutter	10.64	67.76
amt. gutter	10.88	67.52
W. eb	9.98	68.42
+ 7	10.3	68.1
W. Line	8.8	69.6

X. See. W. of W. eb. - No curb South of Boston on W.

S. Line Boston

78.40

2.5 W. of W. eb = E. edge	S. endentatic	5.86	72.54
7.5 " " " " W "	" " " "	5.74	72.66
W. line		5.5	72.9

20's Brk

W. Line	5.4	73.0
+ 3	6.4	72.0

40's Brk

W. eb + 7	7.3	71.1
W. Line	6.3	72.1

60's Brk

W. Line	7.3	71.1
+ 3	8.4	70.0

78.40

T.P.	0.45	67.60	11.25	67.15
		100's Brk.		
W. line		+0.2		67.8
+4'		1.4		66.2
w. eb		0.89		66.71
ent. gutter		1.78		65.82
+3' = E. Edge gutter		1.60		66.00
"		1.2		66.4
⊕		1.1		66.5
"		1.3		66.3
+7 = W. edge gutter		1.62		65.98
ent. gutter		1.85		65.75
E. eb.		0.96		66.64
		120's Brk.		
E. eb.		3.03		64.57
ent. gutter		3.92		63.68
+3 = W. edge gutter		3.67		63.93
"		3.4		64.2
⊕		3.2		64.4
"		3.2		64.4
+7 = E. edge gutter		3.60		64.00
ent. gutter		3.91		63.69
W. eb.		3.02		64.58
+6		3.1		64.5
W. line		2.6		65.0

67.40

103 38th ST.

140' 2 S = N. Line Alley

70

W. Line dirt to N + S.	4.9	62.7
" " ent. eb.	5.14	62.46
+8' " "	5.37	62.23
+8' = E. edge ent. gutter in alley	6.11	61.49
W. ent. eb.	5.37	62.23
gutter	6.27	61.33
+3' = E. edge ent. gutter	6.09	61.51
"	5.8	61.8
⊕	5.6	62.0
"	5.8	61.8
+7 = W. edge gutter	6.11	61.49
gutter	6.26	61.34
E. eb.	5.28	62.32
+2' = E. edge gutter in alley	6.07	61.53
E. line ent. eb.	5.58	62.02
" " dirt in Alley	5.3	62.3

150' 2 S = S. Line Alley

2' W. of web = dirt	7.1	60.5
W. line " "	5.6	62.0
	160' 2 S = S. Line Alley	
E. line dirt in Alley	7.6	60.0
" " ent. eb.	7.82	59.78
+8' = E. edge ent. gutter in alley	8.75	58.85
E. ent. eb.	8.14	59.45
ent. gutter	8.99	58.61
+3 = W. edge ent. gutter	8.82	58.78

67.60
S. line Alley (Eon)

E. 1/4	8.5	59 1
⊕	8.3	59 3
1/4	8.5	59 1
+7 = E. edge ent. gutter	8.71	58 89
ent. gutter	8.88	58 72
W. ent. cl.	7.98	59 62
+2 = W. edge ent. gutter in alley	8.66	58 94
W. line dirt in alley	7.4	60 2
" " ent. cl.	7.89	59 71
" " dirt To S.	7.8	59 8
	200' S.	
W. line	13.3	54 3
+2	13.8	53 8
T.P. 0.28	55.01	12.87
		54.73
W. cl.	1.30	53 71
ent. gutter	2.21	52 80
+3 = E. edge gutter	1.95	53 06
1/4	1.7	53 3
⊕	1.6	53 4
1/4	1.5	53 5
+7 = W. edge ent. gutter	1.92	53 09
" "	2.18	52 83
E. cl.	1.25	53 76

55.01

240.5

E. cl.	7.01	48 00
ent. gutter	7.92	47 09
+3 = W. edge ent. gutter	7.64	47 37
1/4	7.4	47 6
⊕	7.4	47 6
1/4	7.6	47 4
+7 = E. edge ent. gutter	7.69	47 32
ent. gutter	7.90	47 11
W. cl.	7.00	48 01
+8	7.1	47 9
W. line	6.3	48 7
	280.5	
W. line	12.3	42 7
+2	12.8	42 2
ent. cl.	12.78	42 23
T.P. 0.81	43.09	12.73
		42.28
ent. gutter	1.72	41 37
E. edge	1.46	41 63
1/4	1.2	41 9
⊕	1.2	41 9
1/4	1.3	41 8
+7 = W. edge ent. gutter	1.48	41 61
ent. gutter	1.68	41 41
E. cl.	0.77	42 32

38⁺ 57

43.09

300' 4 S = N. Line Z. ST. $\left\{ \begin{array}{l} 80' \text{ side} \\ 14' \text{ ch. 5} \\ 15' \\ 14' 5 \end{array} \right.$

E. el.	3.63	39 46
emt. gutter	4.56	38 53
+3' = w. edge gutter	4.37	38 72
"	3.9	39 2
⊕	3.8	39 3
"	3.8	39 3
+7 = E. edge gutter	4.29	38 80
emt-gutter	4.55	38 54
W. el.	3.73	39 36
w line	3.6	39 5
		W. el. line
w. line emt. el	5.15	37 94
" " " gutter	6.04	37 05
" " dirt to N.E.S.	4.4	38 3
W. el. line	5.2	37 9
"	4.8	38 3
⊕	4.8	38 3
"	4.8	38 3
E. el. line	5.2	37 9
E. line dirt	4.9	38 2
" " emt. el	5.17	37 92
" " emt. gutter	6.11	36 98
		3' S. of N. el. Line
E. line on end of emt. gutter	5.82	37 27
w " " " " " "	5.82	37 27

43.09

N. 1/4

38⁺ ST.

72

E. line	5.4	37.7
E. el. line	5.7	37.4
"	5.2	37.9
⊕	5.2	37.9
"	5.2	37.9
w. el. line	5.5	37.6
W. line	5.0	38.1
		⊕ Z ST.
	5.4	37.7
	5.9	37.2
	5.7	37.4
	5.7	37.4
	5.9	37.2
	5.5	37.6
		5' 1/4 Z. ST
E. line	6.1	37.0
el "	6.4	36.7
"	6.2	36.9
⊕	6.2	36.9
"	6.2	36.9
el. line	6.5	36.6
W. "	5.9	37.2
T.P.	1.36	37.37
	7.08	36.01

inside walk
S.W. Z of 38⁺

37.37

10' S. of S '14 Z. St.

W. line on End. of Gnt. gutter	1.20	36 17
E " " " " "	1.60	35.77
The 3' emt. gutters follow Returns		
S. eb. line		
W. line dirt to N	1.2	36 2
" " emt. eb. dirt to S.	0.79	36 58
No emt. walk Return on N.W. S.W. or S.E. Cors.		
" " emt. gutter	1.55	35 82
" eb. line dirt	1.2	36 2
" 1/4	0.8	36 6
" 1/4	0.8	36 6
" 1/4	0.9	36 5
E. eb. line dirt	1.5	35 9
E " dirt to N	1.2	36 2
" " emt. gutter	1.75	35 62
" " " eb + dirt to S.	0.88	36 69
10' S. of S. eb = RC, 10' Rad. cl. Ret. = Brk curb		
E. line	1.2	36 2
E. eb.	1.01	36 36
emt. gutter	1.92	35 45
+3 = W " "	1.78	35 59
" 1/4	1.7	35.7
" 1/4	1.5	35 9
" 1/4	1.6	35 8
+7 = E. edge emt. gutter	1.53	35 54
" " "	1.77	35.60

37.37

W. emt. eb.	0.96	36 51
W. line	1.1	36 3
00 = S. line Z. St.		
W. line	1.2	36 2
+2.5 = W. edge N. End emt. walk	1.36	36 01
+7.5 = E. " " " " "	1.45	35 92
W. eb.	1.37	36 00
emt. gutter	2.26	35 11
+3 = E. " "	2.07	35 30
" 1/4	2.1	35.3
" 1/4	2.1	35.3
" 1/4	2.2	35 2
+7 = W. edge emt. gutter	2.09	35 28
" " "	2.28	35 09
E. eb.	1.41	35 96
+2.5 = W. edge N. end emt. walk	1.45	35 92
+7.5 = E. " " " " "	1.32	36.05
E. line	1.4	36.0
10' S.		
E. eb.	2.98	34.39
emt. gutter	3.79	33 08
+3 = W. edge " "	3.70	33 67
" 1/4	3.6	33 8
" 1/4	3.5	33 9
" 1/4	3.5	33 9
+7 = E. edge emt. gutter	3.44	33 73

38th 97

73

37.37

10's of Z. ST

W. ent. gutter	3.87	33 50
W. " eb.	2.98	34 39
30'S.		
W. cl	6.29	31.08
W. ent. gutter	7.15	30 22
+3 = E edge "	6.87	30 50
"4	6.7	30 7
⊕	6.7	30 7
"4	6.8	30 6
+7 = W. edge ent. gutter	6.94	30 43
" "	7.09	30 28
E. eb.	6.23	31.14
60'S.		
E. cl	11.22	26.15
ent. gutter	12.05	25 32
+3 = W. edge "	11.88	25.49
"4	11.5	25 9
⊕	11.6	25 8
"4	11.6	25 8
+7 = E edge ent. gutter	11.77	25.60
" "	12.07	25 30
W. cl.	11.21	26.16
T.P. 0.45	24.84	12.98 24.39
80'S.		
W. cl	1.80	23.04
ent. gutter	2.62	22 22

24.84

38⁴ ST

71

+3 = E. edge ent. gutter	2.30	22.54
"4	2.0	22.8
⊕	1.9	22.9
"4	1.9	22.9
+7 = W. edge ent. gutter	2.39	22 45
" " "	2.60	22 24
E. eb.	1.70	23.14
100'S.		
E. cl	4.51	20 33
ent. gutter	5.38	19 46
+3 = W. edge "	5.19	19 65
"4	4.6	20 2
⊕	4.6	20 2
"4	4.7	20.1
+7 = E. edge ent. gutter	5.09	19.75
" " "	5.38	19 46
W. cl.	4.59	20 25
120'S.		
W. cl	6.83	18.01
ent. gutter	7.61	17.23
+3 = E. edge "	7.26	17.58
"4	6.8	18.0
⊕	6.7	18.1
"4	6.8	18.0
+7 = W. edge ent. gutter	7.38	17.46
" " "	7.55	17.29
E. cl.	6.64	18.20

24.84

140' S. of Z. St = N. line Alley

E. line emt. ch	8.27	16.57
" " dirt in alley	8.6	16.2
+3.5 = E. edge X walk in alley	8.76	16.08
+6.5 = W " " " "	8.88	15.96
+8' = E. edge of emt. gutter in alley	9.37	15.47
E. ch.	8.47	16.37
emt. gutter	9.51	15.33
+3' = W. edge " "	9.36	15.48
" "	8.7	16.1
" "	8.16	16.2
" "	8.7	16.1
+7' E. edge emt. gutter	9.16	15.68
" "	9.38	15.66
W. ch.	8.54	16.30
+2' = W. edge emt. gutter in alley	9.25	15.59
+3.5 = E " " X walk " "	8.97	15.87
+6.5 = W " " " " "	8.92	15.92
W. Line dirt " "	9.3	15.5
" " emt. ch.	8.48	16.36

160' S. = S. line Alley

W. line emt. ch	10.17	14.67
" " dirt.	10.5	14.3
+3.5 = W. edge X walls in alley	10.58	14.26
+6.5 = E " " " "	10.68	14.16
+8' = W " emt. gutter " "	10.88	13.96
" "	11.11	13.73
W. emt. ch.	10.34	14.50

24.84

38^{1/2} 51

75

+3' = E. edge emt. gutter	10.83	14.01
" "	10.1	14.7
" "	10.0	14.8
" "	10.1	14.7
+7' = W. edge emt. gutter	10.92	13.92
" "	11.11	13.73
E. emt. ch	10.33	14.51
+2' = E. edge emt. gutter in alley	10.89	13.95
+3.5 = W " " X walk " "	10.56	14.28
+6.5 = E " " " "	10.53	14.31
E. line dirt	10.3	14.5
" " emt. ch.	10.08	14.76
18 1/2' S. = N. End ch. inlet on E.		
E. ch	11.61	13.23
emt. gutter = lip inlet	12.51	12.33
+3' = W. edge emt. gutter	12.20	12.64
" "	11.4	13.4
" "	11.4	13.4
" "	11.4	13.4
+7' = E. edge emt. gutter	12.09	12.75
" "	12.32	12.52
W. ch.	11.49	13.35
17 1/2' S. = S. end. ch. inlet on E.		
W. ch	11.74	13.10
emt. gutter	12.60	12.24
+3' = E. edge " "	12.37	12.47

24.84
194.5. con.

1/4	11.8	130
⊕	11.7	131
1/4	11.8	130
+7' = W. edge emt. gutter	12.41	12.43
" " Lip of inlet	12.70	12.14
E. cb. on Δ of curb	11.86	12.98
196.5 = S. End. emt. gutter on E.		
0.4 W. of E. ch. line = emt. cb.	11.90	12.94
gutter on S. end. emt. gutter	12.57	12.27
E. ch. line + 3' = W. edge S. end emt. gutter	12.43	12.41
205.85 = N. End. cb. inlet on W.		
E. ch. line + 2' = E. emt. cb.	12.30	12.54
dirt gutter	12.5	12.3
1/4	12.1	12.7
⊕	12.1	12.7
1/4	12.1	12.7
+7' = E. edge emt. gutter	12.75	12.09
" " Lip inlet	13.01	11.83
W. emt. cb.	12.10	12.74
214.85 = S. End. cb. inlet on W. = Δ on W. curb		
W. emt. cb.	12.29	12.55
gutter at Lip of inlet	13.23	11.61
2.5 S. of above = S. end. emt. gutter	12.89	11.95
+3' = E. edge, S. end. emt. gutter	12.95	11.89
1/4	12.2	12.6
⊕	12.4	12.4

24.84

38" ST

76

1/4	12.4	12.4
+4.3 dirt gutter	12.4	12.4
+4.3 = E. emt. cb.	12.46	12.38
222.5 S = N. end. of Bridge on E. edge of Roadway		
5' W. of E. ch. line { E. emt. cb. on } of Bridge	12.47	12.37
" " " " = E. emt. cb. on bridge	12.34	12.50
gutter = emt. floor of bridge	12.81	12.03
1/4	12.6	12.2
⊕	12.6	12.2
1/4	12.4	12.4
dirt gutter	12.8	12.0
1.5 E. of W. ch. line = W. emt. cb.	12.38	12.46
230.8 S. of 7 St. on ⊕ = N. end. Bridge		
⊕ on emt. floor of Bridge	12.64	12.20
239.2 S. = N. End. bridge { on W. curb } " W. edge Roadway		
5' S. of W. ch. line { E. emt. cb. to } N. of Bridge	12.39	12.45
" " " " " = W. emt. cb. on Bridge	12.30	12.54
" " " " " gutter = floor bridge	12.79	12.05
T.P. 3.86 15.99	12.71	12.13
256.85 = S. End. bridge { on E. curb } " E. edge Roadway } = S. end.		
5' W. of E. ch. line = E. emt. cb.	3.84	12.15
gutter = floor of bridge	4.35	11.64
265.1 S. on ⊕ = S. end. bridge		
" " " " "	4.17	11.82

Bridge Roadway = 30'

15.99

273.55 = s. end bridge { on w. curb
w. w. edge Roadway } = Δ on E. el.

3'. E. of w. ch. line = w. cnt. el.	3.87	12 12
gutter = floor of bridge	4.36	11 63
1/4	4.4	11 6
1/2	4.4	11 6
1/4	4.5	11 5
E. 1/4 + 6.9 = gutter	4.7	11 3
E. 1/4 + 6.9 = E. cnt. el.	4.24	11.75
300'. S. of Z. St. = N. line Alpha		^{80' wide} 13' 1/2
E. ch. line + 0.5 = E. cnt. el.	4.68	11 31
gutter	5.1	10 9
1/4	4.7	11 3
1/2	4.6	11 4
1/4	4.6	11 4
gutter	5.0	11 0
W. 1/4 + 9.2 = W. cnt. el.	4.33	11 66

12.4 S. of N. line Alpha

5.6 E. of W. line ^{P.T. E. edge X walk} ch. Return	5.06	10 93
5.6 W. " E. " ^{P.T. W. edge X walk} ch. Return	5.18	10 81

12.4 S. of N. line Alpha

2.6 W. of E. line ^{P.T. E. edge X walk} ch. Return	5.17	10 82
2.6 E. " W. " ^{P.T. W. edge X walk} ch. Return	5.11	10 88

N. ch. line

W. line cnt. el.	4.46	11 53
" " dirt gutter	5.1	10 9
+ 2.6 w. edge X walk	5.13	10 86
+ 5.6 E. " X "	5.07	10 92

15.99

38th St.

79

W. ch	4.9	11.1
1/4 = "	4.6	11.4
1/2 = "	4.5	11.5
1/4 = "	4.6	11.4
E. ch	5.1	10 9
+ 4.4 = W. side X walk	5.19	10 80
+ 7.4 E. " " "	5.19	10 80
E. line dirt gutter	5.0	11.0
" " cnt. el.	4.54	11 45
		N. 1/4
E.	5.0	11 0
+ 2.6 E. edge X walk	4.89	11 10
+ 5.6 W. " " "	4.95	11 04
ch	5.0	11 0
1/4 = "	4.6	11 4
1/2 = "	4.6	11 4
1/4 = "	4.8	11 2
ch	5.0	11 0
+ 4.4 = E. edge X walk	4.85	11 14
+ 7.4 = W. " X "	4.86	11 13
W.	4.80	11.19
		1/2
W	4.6	11 4
+ 2.6 = W. edge X walk	4.72	11 27
+ 5.6 = E. " " "	4.73	11 26
ch	5.0	11 0

15.99

Alpha (cont)

W. 1/4	4.9	11.1
Φ	4.8	11.2
1/4	4.7	11.3
cl	4.8	11.2
+ 4.4 = W. edge X walk	4.79	11.20
+ 7.4 = E. " X "	4.74	11.25
E.	4.7	11.3
S. 1/4		
E	4.9	11.1
+ 2.6 = E. edge X walk	5.04	10.95
+ 5.6 = W. " X "	5.06	10.93
cl	5.0	11.0
1/4	4.9	11.1
Φ	4.8	11.2
1/4	5.0	11.0
cl	5.0	11.0
+ 4.4 = E. edge X walk	5.13	10.86
+ 7.4 = W. " X "	5.09	10.90
W.	4.9	11.1
S. ch. line		
W. line dirt gutter	5.5	10.5
" " amt. cl.	4.94	11.05
+ 2.6 = W. edge X walk	5.61	10.38
+ 5.6 = " " X "	5.58	10.41
cl	5.4	10.6
1/4	5.2	10.8

15.99

78

Φ	4.9	11.1
1/4	4.9	11.1
cl	5.2	10.8
+ 4.4 = W. edge X walk	5.51	10.48
+ 7.4 = E. " X "	5.51	10.48
E. line dirt gutter	5.2	10.8
" " amt. cl.	4.92	11.07
0.2 S. of S. ch. line		
2.6 W. of E. line	{ P.I. E. edge X walk + cl. Return	5.50 10.49
2.6 E. of W. "	{ P.F. W. edge X walk + cl. Return	5.62 10.37
1.6 S. of S. ch. line		
5.6 E. of W. line	{ P.F. E. edge X walk + cl. Return	5.62 10.37
5.6 W. " E. "	{ P.I. W. edge X walk + cl. Return	5.53 10.46
S. line Alpha		
E. amt. cl	4.92	11.07
gutter	5.6	10.4
1/4	5.0	11.0
Φ	5.1	10.9
1/4	5.3	10.7
gutter	5.6	10.4
W. amt. cl	4.93	11.06
chk 13 M.	4.91	11.08 = 11.06
See Book 1381.P. 60 for Newton Ave X Sec.		

Drive

162.13

4.5

Wall

9.4

166.63

9.4

157.23

DIRECTIONS FOR USE OF TABLES

TABLE No. 1.

Distance of slope stake from side or shoulder stake for any width roadway, slope 1% to 1%. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body of table in same row and column gives distance from side stake to slope stake. If ground is not

IMPROVED TABLES
AND
INFORMATION

TABLE No. 2.

To find Tangent and External for curve of any other degree, divide by degree of curve and add correction found in column of corrections. Degree of curve with a given T may be found by dividing tangent (or external) opposite T by given tangent (or external). The distance from a point on the tangent to the curve is very nearly the square of the tangent length divided by twice the radius.

380.08
 294

 383.02
 108

 396.94

13657857

RECEIVED
 DEPT. OF ENGINEERING
 CITY OF SAN DIEGO

380.09
 446

 384.54
 1.36

 378.18
 5.53

 383.71
 6.12

 377.59
 4.24

 381.83
 4.85

 376.98
 222.5
 239.2

 2461.6
 230.8

 250.8
 278.5

 2530.2
 265.1

 73.5
 56.8

 16.7
 14

 12.4
 11.6

 1.8

4.91 11.06 58
 11.08

313.78
 1400

 99.78
 33.33
 16

 83
 48

 28

26
 20 | 520
 40

 120
 120

 520
 26

 546

ENGINEERING DEPARTMENT
 CITY OF SAN DIEGO,
 CALIFORNIA.

4.3
 3.0

 4.4
 3.0

 7.4
 2.6

 4.3
 3.0

 4.5
 3.0