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

400 LEVEL

F.B. 461

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

Cooke Quality

Published by H. S. CROCKER COMPANY, Stationers, Drawing Materials, and Mathematical Instruments, San Francisco.

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

MINUTES.	LKS.	MINUTES.	LKS.	MINUTES.	LKS.
1	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 1/2
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 [illegible] on the slopes, to make one chain horizontal measurement.

MICROFILMED
DEC 6 1964

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

Crocker Quality

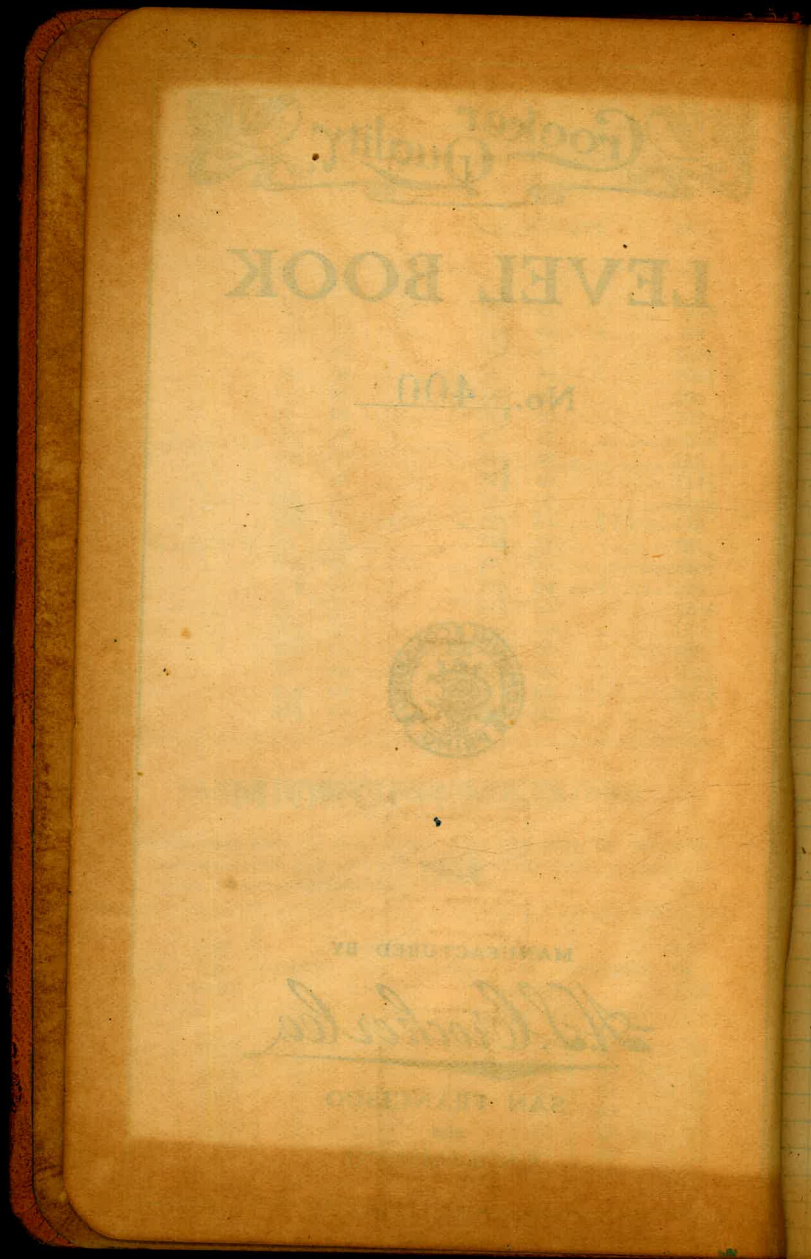
LEVEL BOOK

No. 400

MANUFACTURED BY

A. S. Crocker Co.

SAN FRANCISCO
and
SACRAMENTO



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Levels on E.L. Fourth St. N.L. Stocton to Canon

9/19/09 Dunkle Shaw Dezil

B.M. S.W. Cor 4th & Stocton R.A. SPK 289.93

B.M.	3.99	393.92		
0+0 = N.E. Cor 4th & Stocton			3.2	290.7
0+25			3.0	290.9
0+50			3.1	290.8
0+75			3.3	290.6
1+0			4.0	289.9
1+25			4.8	289.1
1+50			5.5	288.4
1+75			6.1	287.8
2+0			7.1	286.8
2+25			8.5	285.4
2+28			10.7	283.2
2+50 ⟨ = Top retaining wall			12.8	281.1
2+50 ⟨ = bot rat "			16.1	277.8
2+75			20.6	273.3
3+0 = Top Canon			25.1	268.8

POSTED

X-Section. Louisana St El Cajon To Howard St
" 80' wide

4/19/09 Dunkle
09 Shaw
Dezeil

B.M. S.W. cor brass plg. Con. Mon			322.14	
B.M.	11.57	333.71		
T.P.	6.99	338.92	1.78	331.93
	S.L. El Cajon			
W			4.3	
crb			5.8	
1/4			7.4	
M			8.5	
1/4			9.8	
crb			11.3	
E			12.2	
	0+25 S			
E			12.0	
crb			10.7	
1/4			9.1	
M			7.9	
1/4			6.7	
crb			5.5	
W			4.3	

POST

	0+50		
W			3.3
crb			4.9
1/4			5.7
M			6.3
1/4			8.3
crb			9.5
E			11.1
	0+75		
E			10.4
crb			9.4
1/4			7.6
M			6.0
1/4			4.8
crb			4.0
W			3.4

338,92

1+0

W	3.1
Crb	3.2
1/4	3.3
M	4.6
1/4	6.6
Crb	7.9
E	9.8

1+25

E	9.5
Crb	7.3
1/4	6.3
M	4.9
1/4	3.8
Crb	2.7
W	2.1

1+50

W	3.2
Crb	3.5
1/4	3.7
M	4.3
1/4	5.6
Crb	6.7
E	8.7

1+75

E	8.5
Crb	6.3
1/4	4.9
M	3.9
1/4	3.9
Crb	3.4
W	3.1

338.92

2+00

W	3.8
crk	3.7
⅓	3.6
M	3.8
⅔	5.1
crk	5.8
E	7.9

2+25

E	7.5
crk	5.6
⅔	4.9
M	4.1
⅓	3.3
crk	3.2
W	4.1

2+50

W	4.5
crk	4.1
⅓	4.1
M	4.2
⅔	4.3
crk	5.3
E	6.7

2+75

E	7.3	331.6
crk	5.9	333.0
⅔	4.7	334.2
M	4.2	334.7
⅓	4.0	334.9
crk	4.7	334.2
W	4.7	334.2

	338.92		
	340		
W		4.4	334.5
crb		4.6	334.3
"q		4.9	334.0
W		5.1	333.8
"q		5.5	333.4
crb		6.1	332.8
E		7.3	331.6
	3+38 = N. L. Howard St.		
E		6.5	332.4
crb	[illegible]STED	5.8	333.1
"q		5.1	333.8
W		5.2	333.7
"q		5.4	
crb		5.4	
W		5.7	

X-Section Howard, St. Louisana to Texas
" 80' wide
4/19 Dumpte
09 Shaw
Dezeil

B.M. Hub S.E. Cor Louisana & Howard 332.04

B.M.	6.88	338.92		
	E.L. Howard St			
S			6.9	
crb			6.3	
1/4			6.2	
M			6.2	332.7
1/4			6.9	332.0
crb			6.4	332.5
N			6.6	332.3
	0+25 E. of Howard			
N			9.1	329.8
crb			8.7	330.2
1/4			9.0	329.9
M			8.9	330.0
1/4			8.3	
crb			8.5	
S			9.0	

POSTED

		0+50		
S			12.3	326.6
crb			12.1	326.8
1/4			11.7	327.1
M			12.5	326.4
1/4			13.1	325.8
crb			13.2	325.7
N			12.7	326.2
T.P.	1.10	327.07	12.95	325.97
		0+75		
N			4.1	323.0
crb			4.2	322.9
1/4			4.7	322.4
M			4.3	322.8
1/4			4.4	
crb			4.7	
S			4.3	

327.07

1+00

S	8.1	319.0
Crb	7.8	319.3
"g	7.2	319.9
M	7.9	319.2
"g	8.4	318.7
Crb	8.1	319.0
N	7.2	319.9

1+25

N	7.7	319.4
Crb	8.3	318.8
"g	9.8	317.3
M	10.5	316.6
"g	10.7	
Crb	11.4	
S	11.5	

1+50

S	14.0	313.0
Crb	13.3	313.8
"g	12.8	314.3
M	12.8	314.3
"g	12.8	314.3
Crb	11.1	316.0
N	12.3	314.8

1+75

N	13.2
Crb	14.1
"g	14.4
M	14.7
"g	14.2
Crb	14.0
S	14.3

327.07

2+0

S	15.0
crb	14.7
1/4	14.4
M	13.9
1/4	14.1
crb	13.7
N	13.5

2+25

N	13.1
crb	13.2
1/4	13.3
M	13.5
1/4	13.2
crb	13.0
S	13.5

2+50

S	13.5
crb	13.3
1/4	12.5
M	11.7
1/4	11.4
crb	11.8
N	12.7

2+75

N	11.9
crb	11.6
1/4	12.1
M	12.4
1/4	12.5
crb	12.5
S	12.4

327.07

2+99 ℄ = W.L. Texas

S	10.6
crk	10.9
″	11.1
M	12.1
″	12.3
crk	11.6
N	10.8

POSTED

Levels on Utah St. Univ To UPas Drinkle
" 80' wide 4/20/09 Shaw
B.M. N.W. cor Utah R.R. SPK. 350.33 Dizel
B.M. 0.59 350.92
S.L. University

E			2.5
ctr			2.5
W			2.7
		0+50	
W			3.0
ctr			2.6
E			3.3
		1+0	
E			4.1
ctr			3.5
W			3.5
		1+50	
W			4.4
ctr			4.3
E			4.6

POSTED

		2+0	
E			3.3
ctr			4.7
W			4.6
		2+50	
W			4.9
ctr			4.8
E			4.7
	3+0 = N.L. Wightman 80' wide		
E			4.8
ctr			4.3
W			4.8
	center		
W			6.1
ctr			5.8
E			5.2

350.92

S. L. Wightman

E 6.1

ctr 6.1

W 6.3

0+50 S

W 6.1

ctr 6.5

E 6.6

1+0

E 6.2

ctr 6.2

W 6.2

1+50

W 6.4

ctr 6.7

E 6.5

2+0

E 6.9

ctr 7.2

W 7.9

2+50

W 6.7

ctr 7.4

E 7.6

T.P. 2.23 245.51 7.64 343.28

3+0 = N.L. Gunn St 80' wide

E 2.3

ctr 2.3

W 2.2

center

W 3.3

ctr 3.1

E 1.3

24551

5.4, Gum

E	3.9
ctr	3.4
W	2.3

0+50 S

W	3.9
ctr	2.7
E	3.9

1+0

E	4.1
ctr	2.9
W	3.4

1+50

W	3.3
ctr	4.4
E	4.9

2+0

E	4.3
ctr	4.5
W	3.7

2+50

W	4.5
ctr	4.5
E	5.7

3+0 = N.L. Land is 5+ 80' wide

E	5.5
ctr	5.8
W	5.0

center

W	4.7
ctr	4.7
E	4.5

	24551		
	S. L. Landis		
E		6.6	
ctr		5.6	
W		5.0	
	2+50 S		
W		5.5	
ctr		5.8	
E		6.8	
	1+0		
E		6.6	
ctr		6.4	
W		6.2	
	1+50		
W		6.9	
ctr		7.6	
E		7.6	
T. P.	398	342.02	7.47	338.04

	342.02		
	2+0		
E		4.4	
ctr		4.5	
W		3.5	
	2+50		
W		3.7	
ctr		4.3	
E		3.9	
	3+0 = N. L. Dwight St 80' wide		
E		5.1	
ctr		5.2	
W		3.8	
	Center		
W		4.3	
ctr		5.0	
E		4.9	

342.02

S.L. Dwight

E	6.1
ctr	5.0
W	5.2
0+50S	
W	4.9
ctr	6.5
E	5.2
1+0	
E	6.2
ctr	6.5
W	6.0
1+50	
W	6.4
ctr	7.0
E	7.3

2+0

E	8.2
ctr	6.7
W	6.7
2+50	
W	6.5
ctr	5.6
E	7.5

3+0 = N.L. Capps 80' wide

E	7.5
ctr	6.0
W	6.3
center	
W	15.9
ctr	6.8
E	7.5

T.P. 5.03 340.65 6.40 335.62

340.65

3.L. Capps

E	5.9
ctr	5.6
W	5.2

0+50 S

W	6.5
ctr	6.1
E	6.2

1+0

E	5.8
ctr	6.4
W	6.4

1+50

W	6.2
ctr	6.2
E	6.2

2+0

E	5.6
ctr	6.0
W	6.1

2+50

W	5.6
ctr	5.6
E	5.6

3+0 = W.L. Myrtle St 80 wide

E	5.0
ctr	5.5
W	4.6

center

W	5.0
ctr	5.5
E	5.5

340.65

S. L. MYRTLE

E 6.2

ctr 6.3

W 6.5

0+50 S

W 6.0

ctr 7.0

E 6.0

1+0

E 6.9

ctr 6.3

W 7.0

1+50

W 7.7

ctr 5.0

E 7.6

2+0

E 8.4

ctr 8.5

W 8.1

2+50

W 9.6

ctr 8.8

E 8.7

3+0 = N.L. UPOS ST

E 8.5

ctr 9.2

W 8.6

POSTED

Levels on Sherman St Univ To Upas — Dunkle
" 80' wide — 4/21/09 — Shaw
B.M. S.W. Cor Utah R.R. spike 350.33 — Dugul

B.M.	2.79	353.12			
	S.L. University.				
W			2.2		350.9
ctr			2.3		350.8
E			1.3		351.8
		0+50 S			
E			3.3		349.8
ctr			3.5		349.6
W			2.8		350.3
		1+0			
W			4.8		348.3
ctr			4.8		348.3
E			3.4		349.7
		1+50			
E			3.8		349.3
ctr			4.2		348.9
W			5.9		347.2

		2+0			
W			4.5		348.6
ctr			5.7		347.4
E			5.6		347.5
		2+50			
E			6.0		347.1
ctr			4.4		348.7
W			6.3		346.8
		3+0 = N.L. Wightman St 80' wide			
W			6.4		346.7
ctr			6.0		347.1
E			5.8		347.3
		Center			
E			5.5		347.6
ctr			6.4		346.7
W			7.5		345.6

POSTED

353.12

S. L. Wightman

W		6.4	346.7
Ctr		7.4	345.7
E		6.9	346.2
	0+50 S		
E		6.7	346.4
Ctr		7.0	346.1
W		7.6	345.5
	1+00		
W		7.8	345.3
Ctr		8.2	344.9
E		7.2	345.9
	1+50		
E		8.6	344.5
Ctr		8.6	344.5
W		8.2	344.9
T.P.	3.93	348.43	8.6 = 344.50

348.43

2+00

W	4.3	344.1
Ctr	3.9	344.5
E	2.8	345.6
2+50		
E	4.0	344.4
Ctr	3.4	345.0
W	4.8	343.6

3+00 N.L. Gunn St 80' wide

W	4.7	343.7
Ctr	5.5	342.9
E	3.7	344.7
Center		
E	5.7	342.7
Ctr	5.1	343.3
W	5.7	342.7

348.43

S.L. Gunnst

W	5.7	342.7
ctr	5.5	342.9
E.	5.1	343.3
0+50S		
E	6.5	341.9
ctr	6.6	341.8
W	5.6	342.8
1+0		
W	6.2	342.2
ctr	7.2	341.2
E	6.6	341.8
1+50		
E	7.5	340.9
ctr	7.8	340.6
W	7.8	340.6

2+0

W	8.1	340.3
ctr	8.0	340.4
E	7.8	340.6
2+50		
E	8.2	340.2
ctr	7.6	340.8
W	8.3	340.1
3+0 = N.L. Landis 80' wide		
W	8.2	340.2
ctr	8.3	340.1
E	7.6	340.8
center		
E	9.0	339.4
ctr	9.2	339.2
W	9.1	339.3

		348.43			
		S. L. Land's St			
W			10.1		338.3
Ctr			9.3		339.1
E			9.1		339.3
T.P.	4.05	343.03	9.45	338.98	
		0+50			
E			9.2		338.8
Ctr			9.0		339.0
W			3.8		339.2
		1+0			
W			9.8		338.2
Ctr			9.6		338.4
E			9.5		338.5
		1+50			
E			5.2		337.8
Ctr			9.9		338.1
W			9.7		338.3

	2+0		
W		5.5	337.5
Ctr		5.0	338.0
E		4.2	338.8
	2+50		
E		5.5	337.5
Ctr		5.4	337.6
W		5.3	337.7
	3+0 = N.L. Dwight St 80' wide		
W		5.0	338.0
Ctr		6.1	336.9
E		5.5	337.5
	Concrete		
E		6.3	336.7
Ctr		5.8	337.2
W		6.0	337.0

343.03

S.L. Dwight

W		6.0	337.0
Ctr		4.8	338.2
E		5.9	337.1
	0+50		
E		5.4	337.6
Ctr		6.2	336.8
W		6.4	336.6
	1+0		
W		7.0	336.0
Ctr		7.0	336.0
E		5.9	337.1
	1+50		
E		7.2	335.8
Ctr		7.0	336.0
W		7.9	335.1

	2+0		
W		8.1	334.9
Ctr		8.2	334.8
E		8.4	334.6
	2+50		
E		9.2	333.8
Ctr		9.2	333.8
W		9.1	333.9
	3+0 = N.L. Cross 33		80' wide
W		10.7	332.3
Ctr		10.6	332.4
E		10.7	332.3
	center		
E		11.3	331.7
Ctr		10.4	332.6
W		10.9	332.1
T.P	6.95	338.29	11.69	331.34

338.29

S.L. Capps St

W	6.8	331.5
Ctr	7.1	331.2
E	7.1	331.2

0+50 S

E	6.3	332.0
Ctr	6.4	331.9
W	6.3	332.0

1+00

W	6.3	332.0
Ctr	7.1	331.2
E	6.7	331.6

1+50

E	7.9	330.4
Ctr	6.7	331.6
W	5.4	332.9

2+00

W	6.3	332.0
Ctr	7.0	331.3
E	8.4	329.9

2+50

E	8.9	329.4
Ctr	6.7	331.6
W	6.2	332.1

3+00 - N.L. Myrtle St 80 wide

W	6.4	331.9
Ctr	7.6	330.7
E	8.4	329.9

Center

E	7.2	330.1
Ctr	7.0	331.3
W	5.7	332.6

338.29

S.L. Mystic

W	6.0	332.3
Ctr	6.7	331.6
E.	8.2	330.1
0+50		
E	7.8	330.5
Ctr	6.3	332.0
W	5.5	332.8
1+0		
W	5.2	333.1
Ctr	6.3	332.0
E	7.3	331.0
1+50		
E	7.4	330.9
Ctr	6.5	331.8
W	5.5	332.8

2+0

W	5.7	332.6
Ctr	6.5	331.8
E	7.6	330.7
2+50		
E	6.9	331.4
Ctr	6.3	332.0
W	5.7	332.6
3+0 = N.L. U.P.S. 57		
W	5.6	332.7
Ctr	6.5	331.8
E	6.7	331.6

POSTED

Levels on Kansas St University To UPas St Dunkle
" 80' wide 9/21/09 Shaw
B.M.N.E. Cor Kansas R.R. SPK 354.43 Dizill

B.M.	3.30	357.73			
	S. L. University Ave				
W			4.2		
ctr			4.2		
E			3.8		
		0+50 S			
E			2.5		
ctr			2.6		
W			4.2		
		1+0			
W			7.3		
ctr			6.2		
E			4.6		
		1+50			
E			6.0		
ctr			7.0		
W			7.0		

POSTED

POSTED 25

		2+0			
W			8.5		
ctr			7.9		
E			7.7		
		2+50			
E			6.9		
ctr			9.1		
W			9.3		
	3+0 = N.L. Wightman 80' wide				
W			9.9		
ctr			9.9		
E			9.5		
	center				
E			9.0		
ctr			9.0		
W			9.1		

357.73

S.4 Wightman

W	10.6
Ctr	9.3
E	9.8
0+50 S	
E	10.3
Ctr	10.7
W	11.2
1+0	
W	12.2
Ctr	11.4
E	11.0
1+50	
E	12.0
Ctr	12.1
W	12.3

T.P.	4.04	349.50	12.27	345.46

249.50

2+0

W	4.8
Ctr	4.6
E	3.6
2+50	
E	5.4
Ctr	4.4
W	4.6
3+0 = N.L. Gum St 80' wide	
W	5.6
Ctr	4.6
E	5.4
Center	
E	6.0
Ctr	4.7
W	5.0

349.50

S.L. GUNN ST

W	6.6
Ctr	5.5
E	6.1

0+50 S

E	5.3
Ctr	6.6
W	6.6

1+0

W	7.2
Ctr	7.5
E	7.2

1+50

E	6.9
Ctr	7.3
W	7.3

2+0

W	7.2
Ctr	7.8
E	7.3

2+50

E	7.8
Ctr	7.8
W	7.9

3+0 = N.L. Landis St 80' Wide

W	7.7
Ctr	8.2
E	7.7

Center

E	8.6
Ctr	9.1
W	8.6

T.P. 464 345.51 8.63 340.87

345.51

5.1, Landis

W	5.3
Ctr	4.6
E	4.7

0+50 S

E	5.4
Ctr	5.4
W	5.6

1+0

W	4.8
Ctr	6.2
E	4.9

1+50

E	6.2
Ctr	5.8
W	6.1

2+0

W	6.5
Ctr	6.4
E	6.4

2+50

E	7.0
Ctr	6.5
W	7.0

3+0 N.L. Dwight St 80' wide

W	8.1
Ctr	7.3
E	7.3

Center

E	7.5
Ctr	8.2
W	8.8

		345.51		
		5.L. Dwight		
W			9.1	
Ctr			8.7	
E			8.5	
		0+50 S		
E			8.1	
Ctr			9.7	
W			9.3	
T.P.	2.61	338.76	9.36	336.15
		1+0		
W			3.6	
Ctr			3.6	
E			2.6	
		1+50		
E			4.3	
Ctr			4.3	
W			4.3	

	338.76		
	2+0		
W		4.2	
Ctr		4.2	
E		4.4	
	2+50		
E		4.7	
Ctr		5.4	
W		5.6	
3+0 = N.L. Capps St 80' wide			
W		5.2	
Ctr		5.0	
E		5.4	
Center			
E		5.2	
Ctr		5.8	
W		6.6	

		338.76			
	S.L. Capps St				
W			5.5		
ctr			5.7		
E			5.6		
	0+50 S				
E			5.1		
ctr			4.8		
W			7.0		
	1+0				
W			6.1		
ctr			6.1		
E			5.1		
	1+50				
E			6.5		
ctr			6.8		
W			7.1		

		2+0			
W			7.7		
ctr			7.6		
E			6.8		
		2+50			
E			7.5		
ctr			7.8		
W			8.4		
	3+0 = N.L. Myrtle St 80' wide				
W			8.4		
ctr			8.3		
E			6.7		
		Center			
E			8.7		
ctr			8.6		
W			8.9		
T.P.	2.76	332.77	8.75	330.01	

332.77

S.L. Myrtle St

W 3.5

Ctr 2.4

E 3.0

0+50 S

E 3.8

Ctr 3.2

W 4.6

1+0

W 5.9

Ctr 5.1

E 4.8

1+50

E 5.7

Ctr 5.9

W 5.9

2+0

W 5.1

Ctr 6.4

E 6.3

2+50

E 6.1

Ctr 6.8

W 7.0

POSTED

3+0 = N.L. UPass St

W 7.3

Ctr 6.9

E 7.6

Levels on Idaho St University To U Pas Dunkle
Idaho st 30' wide 4/21/09 Shaw
B.M. N.E. Cor Idaho R.R. SPK 347.37 Dezel

B.M.	3.53	350.90			
	S.L. University				
E			5.1	345.8	
ctr			5.3	345.6	
W			5.5	345.4	
		0+50 S			
W			5.2	345.7	
ctr			4.5	346.4	
E			3.7	347.2	
		1+0			
E			5.1	345.8	
ctr			4.9	346.0	
W			5.4	345.5	
		1+50			
W			5.5	345.4	
ctr			4.9	346.0	
E			5.2	345.7	

POSTED

		2+0			
E			5.3	345.6	
ctr			5.2	345.7	
W.			5.9	345.0	
	2+29.8 = N.L. Wightman on W. side 60' wide				
W			6.0	344.9	
ctr			6.1	344.8	
E			6.2	344.7	
	2+89.8 = S.L. Wightman on W. side				
E			6.3	344.6	
ctr			6.2	344.7	
W			6.2	344.7	
	3+0 = N.L. Wightman on E. side 80' wide				
W			6.4	344.5	
ctr			6.2	344.7	
E			6.5	344.4	

POSTED

		350.90		
	3780 – S.L. Wightman on E. side			
E			6.7	344.2
ctr			6.7	344.2
W			6.7	344.2
		4+00		
W			6.5	344.4
ctr			6.6	344.3
E			6.7	344.2
		4+50		
E			6.8	344.1
ctr			6.7	344.2
W			6.7	344.2
		5+00		
W			7.0	343.9
ctr			6.8	344.1
E,			6.9	344.0
T. P.	4.60	348.74	6.76	344.14

	348.74		
	5+50		
E		4.0	344.7
ctr		4.4	344.3
W		4.7	344.0
	6+00		
W		4.6	344.1
ctr		4.5	344.2
E		3.5	345.2
	6+50		
E		4.5	344.2
ctr		4.6	344.1
W		4.4	344.3
	6+80 – N.L. Gunn St on E. side 80' wide		
W		4.6	344.1
ctr		4.7	344.0
E		4.3	344.4

348.79

7+60 S.L. Gunn on E. side

E	4.9	343.8
ctr	5.0	343.7
W	4.9	343.8

8+0

W	5.1	343.6
ctr	5.4	343.3
E	5.3	343.4

8+50

E	5.3	343.4
ctr	5.3	343.4
W	5.7	343.0

8+89 5 = N.L. Landis on W. side 60' wide

W	5.6	343.1
ctr	5.6	343.1
E	5.6	343.1

9+49 5 = N.L. Landis on W. side

E	5.5	343.2
ctr	5.8	342.9
W	4.9	343.8

10+0

W	6.5	342.2
ctr	6.1	342.6
E	6.1	342.6

10+60 = N.L. Landis on E. side 80' wide

E	6.1	342.6
ctr	6.7	342.0
W	7.0	341.7

11+40 = S.L. Landis on E side

W	8.3	340.4
ctr	8.5	340.2
E	8.1	340.6
T. P.	0.92 341.74	7.92 340.82

341.74

12+0

E	1.7	340.0
ctr	2.3	339.4
W	2.6	339.1

12+50

W	3.2	338.5
ctr	3.0	338.7
E	2.7	339.0

13+0

E	3.6	338.1
ctr	4.2	337.5
W	3.8	337.9

13+50

W	5.0	336.7
ctr	5.1	336.6
E	4.1	337.6

14+0

E	5.0	336.7
ctr	5.9	335.8
W	5.7	336.0

14+40 = N.L. Dwight on E. side 80' wide

W	6.1	335.6
ctr	6.3	335.4
E	5.2	336.5

15+20 = S.L. Dwight on E. side

E	6.5	335.2
ctr	7.2	334.5
W	7.0	334.7

15+49½ = N.L. Dwight on W. side 60' wide

W	6.3	335.4
ctr	7.1	334.6
E	6.3	335.4

341.74

16+09 = S.L. Dwight on N side

E		7.7	334.0
ctr		8.0	333.7
W		8.5	333.2
	16+50		
W		7.7	334.0
ctr		7.5	334.2
E		8.4	333.3
	17+0		
E		8.3	333.4
ctr		8.8	332.9
W		8.7	333.0
	17+50		
W		8.9	332.8
ctr		8.6	333.1
E		8.7	333.0

18+30 = N.L. Capps station E. side 80' wide

E		8.1	333.6
ctr		8.2	333.5
W		7.8	335.9
	19+0 = S.L. Capps		
W		9.1	332.6
ctr		8.5	333.2
E		7.8	335.9
T.P.	5.59	339.47	7.86	333.88
	19+50		
E		6.0	333.5
ctr		6.2	333.3
W		6.1	333.4
	20+0		
W		6.1	333.4
ctr		5.2	334.3
E		5.3	334.2

339.47

20+50

E	5.6	333.9
ctr	5.6	333.9
W	6.5	333.0

21+00

W	4.9	334.6
ctr	5.7	333.8
E	5.2	334.3

21+50

E	5.3	334.2
ctr	5.3	334.2
W	4.7	334.8

22+00 = N.L. Myrtle on E. side 80' wide

W	5.2	334.3
ctr	5.8	333.7
E	5.1	334.4

22+07½ = N.L. Myrtle on W. side 60' wide

E	5.6	333.9
ctr	5.4	334.1
W	4.9	334.6

22+67½ = S.L. Myrtle on W. side

W	6.6	332.9
ctr	6.0	333.5
E	5.6	333.9

22+80 = S.L. Myrtle on E side

E	5.3	334.2
ctr	6.2	333.3
W	7.0	332.5

23+00

W	6.9	332.6
ctr	6.3	333.2
E	6.5	333.0

339.47

24+0

E.	2.0	332.5
ctr	7.2	332.3
W	6.5	332.7

24+50

W	6.9	332.6
ctr	6.8	332.7
E	7.3	332.2

25+0

E	7.8	331.8
ctr	7.4	332.1
W	7.7	331.8

25+50

W	8.0	331.5
ctr	8.4	331.1
E	9.0	330.5

25+80 = N.L. UP&S St.

E	9.1	330.4
ctr	9.1	330.4
W	9.2	330.3

POSTED

Levels on Robinson. Georgia To Alabama — Dunkle
" 80' wide — 4/23/09 — Shaw
B.M. N.W. Georgia & Robinson. hub 321.51 — Dezicl

B.M.	0.18	321.67			
0+0= E.L. Georgia Taking Georgia as 60' st					
N			7.0	314.7	
ctr			11.2	310.5	
S			14.4	307.3	
0+10= E.L. Georgia as 80' st					
S			14.4	307.3	
ctr			12.1	309.6	
N			9.7	312.0	
		0+35 E			
N			11.3	310.4	
ctr			13.4	308.3	
S			14.6	307.1	
		0+60			
S			16.9	304.8	
ctr			13.9	307.8	
N			13.4	308.3	

POSTED

		0+85			
N			14.0	307.7	
ctr			19.8	301.9	
S			19.1	302.6	
T.P.	0.95	309.83	12.79	308.88	
		1+10			
S			14.0	295.8	
ctr			14.2	295.6	
N			2.3	307.5	
		1+35			
N			8.6	301.2	
ctr			15.2	294.6	
S			20.2	289.6	
		1+60			
S			25.5	284.3	
ctr			20.2	289.6	
N			9.7	300.1	
T.P	0.52	297.44	12.91	296.92	

POSTED

		297.44		
		1+85		
N			0.0	297.4
Ctr			11.2	286.2
S			16.7	280.7
		2+10		
S			18.9	278.5
Ctr			13.6	283.8
N			6.0	291.4
		2+35		
N			9.0	288.4
Ctr			14.5	282.9
S			20.1	277.3
		2+60		
S			22.3	275.1
Ctr			18.0	279.4
N			12.8	284.6
T. P.	0.33	284.83	12.94	284.50

		284.83		
		2+85		
N			2.9	281.9
Ctr			7.0	277.8
S			12.3	272.5
		3+11.5	W. L. Florida St 80' wide	
S			13.6	271.2
Ctr			10.2	274.6
N			5.6	279.2
		center		
N			7.7	277.1
Ctr			10.8	274.0
S			13.9	270.9
		E. L. Florida		
S			13.4	271.4
Ctr			11.0	273.8
N			9.2	275.6
T. P.	2.45	279.32	12.96	271.87

		274.32		
		0+25 E		
N			0.5	8
ctr			2.8	
S			4.8	
		0+50		
S			7.4	
ctr			6.1	
N			3.7	
		0.75		
N			7.4	
ctr			8.9	
S			11.0	
T.P	1.67	263.16	12.83	261.49
		1+0		
S			7.0	
ctr			5.8	
N			1.9	

		263.16		
		1+25		
N			6.5	
ctr			8.4	
S			12.8	
T.P	1.91	252.30	12.77	250.39
		1+50		
S			18.3	
ctr			13.9	
N			0.9	
T.P	0.27	239.63	12.94	239.36
		1+75		
N			5.8	
S				
ctr			7.8	
S			8.4	
		2+0		
S			12.0	
ctr			8.5	
N			7.2	

23963

2+25

N 7.1

str 9.8

S 8.6

2+50

S 7.9

str 8.8

N 10.1

POSTED

2+75

N 4.9

str 4.6

S 5.5

3+0 = W. L. Alabama

S 1.7

str 1.7

N 0.6

Levels Cypress St Georgia to Alabama Dunkle
" 80' wide 4/23/09 Shaw
B.M.S.W. Cypress & Georgia hub 289.83 Dezill.

B.M.	1.04	290.87			
0+0 = E.L. Georgia Taking Georgia as 60' St.					
N			17.7		
ctr			14.1		
S			12.3		
T.P.	0.43	278.98	12.32	278.55	
0+10 = E.L. Georgia as 80' St					
S			2.3		
ctr			4.3		
N			7.5		
		0+35 E			
N			11.3		
ctr			8.5		
S			5.4		
		0+60			
S			7.8		
ctr			11.2		
N			14.9		

POSTED

		0+85			
N			19.9		
ctr			15.1		
S			11.9		
T.P.	0.80	267.04	12.74	266.24	
		1+10			
S			3.8		
ctr			8.4		
N			12.8		
		1+35			
N			17.3		
ctr			13.1		
S			7.3		
T.P.	0.25	255.19	12.10	254.94	
		1+66			
S			0.1		
ctr			5.0		
N			7.9		

		255.19		
		1+85		
N			11.2	
Ctr			8.1	
S			3.2	
		2+10		
S			7.6	
Ctr			10.9	
N			13.4	
		2+35		
N			17.7	
Ctr			12.6	
S			9.4	
T.P.	1.35	244.82	11.62	243.57
		2+60		
S			1.5	
Ctr			5.4	
N			10.3	

3+10 P.T. W.L. Florida St

N			13.8	
Ctr	S		10.6	
S			6.2	
		Center		
S			20.5	
Ctr			15.3	
N			23.0	
		E.L. Florida		
N			22.9	
Ctr			20.5	
S			17.4	
T.P.	0.71	233.20	12.43	232.49
		0+25 E of Florida		
S			9.0	
Ctr			9.0	
S			1.9	

		333.20		
		0+50		
N			2.2	
ctr			8.4	
S			12.7	
		0+75		
S			13.3	
ctr			9.5	
N			3.6	
		1+0		
N			5.7	
ctr			10.7	
S			16.3	
T.P.	4.32	324.87	13.65	220555
		1+25		
S			8.9	
ctr			5.2	
N			0.1	

		1+50		
N			3.5	
ctr			6.6	
S			12.7	
		1+75		
S			10.6	
ctr			9.6	
N			9.3	
		2+0		
N			10.1	
ctr			9.9	
S			12.4	
		2+25		
S			10.3	
ctr			10.4	
N			9.6	

324.87

2+6-0

N 10.9

ctr 8.5

S 9.3

2+7.5

S 7.9

ctr 6.7

N 7.3

3+0 = W. L. Alabama

N 3.7

ctr 5.1

S 9.8

POSTED

Levels on Myrtle st Georgia To Alabama
" 80' wide

5/7/09

Drinkle
Shaw
Dezel

B.M. N.E. hub Georgia & Myrtle				279.89	
B.M.	2.42	282.31		300.00 assumed.	
0+0 = E.L. Georgia Taking Georgia as 60' st					
N			+0.2		
cte			2.3	280.0	
S			6.6		
0+10 = E.L. Georgia as 80' st					
S			7.9		
cte			4.5	277.8	
N			2.6		
		0+35 E			
N			8.3		
cte			10.5	271.8	
S			13.0		
T.P.	0.73	270.09	12.95	269.36	

POSTED

		270.09			
		0+60			
S			8.8		
cte			6.6	263.5	
N			4.5		
		0+85			
N			12.4		
cte			14.3	255.8	
S			16.0		
T.P.	0.65	257.91	12.83	257.26	
		1+10			
S			9.9		
cte			8.9	249.0	
N			8.0		
T.P.	0.39	246.06	12.24	245.67	
		1+35			
N			1.4		
cte			2.8	244.2	
S			4.9		

POSTED

		246.06			
		1+60			
S			10.8		
ctr			8.9	237.1	
N			8.5		
		1+85			
N			16.9		
ctr			15.0	231.0	
S			16.4		
T. P.	0.87	233.99	12.94	233.12	Stone at Sta 1+70 from Gurge on S. side
T. P.	0.87	223.43	11.43	222.56	
		2+10			
S			0.1		
ctr			1.7	221.7	
N			5.4		
		2+35			
N			14.4		
ctr			11.7	211.7	
S			4.7		
T. P.	0.46	210.95	12.94	210.49	

		2+60			
S			3.6		
ctr			5.8	205.1	
N			6.4		
		2+85			
N			8.1		
ctr			8.5	202.4	
S			8.7		
		3+10 = W.L. Florida St 80'			
S			9.7		
ctr			11.9	199.0	
N			11.5		
		E.L. Florida			
N			7.4		
ctr			9.5	201.4	
S			9.9		

		210.95		
		0+25 E		
S			9.3	
ctr			8.1	202.8
N			6.9	
		0+50		
N			5.7	
ctr			5.9	205.0
S			8.5	202.4
		0+95		
S			4.2	206.7
ctr			3.2	207.7
N			2.4	
T.P.	12.80	223.37	0.38	210.57
		1+0		
N			10.7	
ctr			10.8	212.6
S			12.7	198.2

		1+25		
S			9.5	
ctr			6.0	217.4
N			5.2	
		1+50		
N			+1.4	
ctr			2.0	221.4
S			9.3	214.0
T.P.	11.77	234.83	0.31	223.06
		1+75		
S			23.2	
ctr			10.3	224.5
N			3.2	
T.P.	12.46	246.75	0.54	234.29
		2+0		
N			8.4	
ctr			18.6	227.1
S			32.6	214.1

	246.75			
	2+25			
S		26.7		
ctr		15.4	231.3	
N		5.1		
	2+50			
N		2.3		
ctr		13.5	233.0	
S		25.1		
	2+75			
S		21.7		
ctr		11.0	235.8	
N		0.2		
T.P.	10.24	256.00	0.99	245.76
	3+0. = W.L. Alabama			
N		6.7		
ctr		16.7	239.3	
S		28.5		

Myrtle St 60' wide E. of Alabama

E.L. Alabama St.

S	256.00	11.6	244.4	
ctr		22.6	233.4	
N		24.2	231.8	
	0+25 E			
N	256.00	19.6	236.4	
ctr		19.2	236.8	
S		12.6	243.4	
	0+50			
S	256.00	14.5	241.5	
ctr		24.8	231.2	
N		15.4	240.6	
	0+75			
N	256.00	8.7	247.3	
ctr		19.2	236.8	
S		18.2	237.8	

POSTED

		256.00		
		1+0		
S			21.9	234.1
ctr			13.7	242.3
N			1.5	254.5
T.P.	12.31	267.03	1.28	254.72
		1+25		
N			7.0	260.0
ctr			15.4	251.6
S			28.0	239.0
		1+50		
S		267.0	15.8	251.2
ctr			6.9	260.1
N			3.9	263.1
T.P.	11.93	278.00	0.96	266.07
		1+75		
N			11.9	266.0
ctr			14.5	263.5
S			17.0	261.0

		2+0		
S		278.00	13.3	264.7
ctr			11.2	266.8
N			9.4	268.6
		2+25		
N			7.5	270.5
ctr			8.9	269.1
S			10.7	267.3
		2+50 = W.L. MISSISSIPPI ST 80		
S		278.00	8.1	269.9
ctr			6.8	271.2
N			5.2	272.8
T.P.	6.10	282.55	1.55	276.45
		E.L. Miss		
N			6.1	276.5
ctr			6.8	275.8
S			7.5	275.1

	282.55		
	0+25 E		
S		6.9	275.7
Ctr		6.1	276.5
N		5.5	277.1
	0+50		
N		4.9	277.7
Ctr		5.8	276.8
S		6.6	276.0
	0+75		
S	282.6	6.3	276.3
Ctr		5.2	277.4
N		4.7	277.9
	1+0		
N		4.2	278.4
Ctr		4.9	277.7
S		5.6	277.0

	1+25		
S	282.6	5.1	277.5
Ctr		4.9	277.7
N		4.7	277.9
	1+50		
N		5.5	277.1
Ctr		5.3	277.3
S		5.6	277.0
	1+75		
S	282.6	6.9	275.7
Ctr		6.5	276.1
N		6.3	276.3
	2+0		
N		7.1	275.5
Ctr		8.3	274.3
S		8.8	273.8

		282.55		
		2+25		
S		282.6	9.8	272.8
ctr			8.7	273.9
N			7.5	275.1
		2+52.5 = W.L. Louisiana at 80		
N			6.2	276.4
ctr			6.6	276.0
S			7.7	274.9
		E.L. Louisiana		
S		282.6	6.5	276.1
ctr			5.8	276.8
N			5.3	277.3
T.P.	8.09	285.28	5.36	277.19
		0+25 E		
N		285.3	6.4	278.9
ctr			7.3	278.0
S			7.4	277.9
		0+50		
S			6.4	278.9
ctr			6.0	279.3
N			5.6	279.7

		285.3		
		0+75		
N			4.7	280.6
ctr			5.5	279.8
S			6.0	279.3
		1+0		
S			6.3	279.0
ctr			5.7	279.6
N			5.3	280.0
		1+25		
N		285.3	5.7	279.6
ctr			6.0	279.3
S			6.5	278.8
		1+50		
S			7.5	277.8
ctr			6.8	278.5
N			6.8	278.5
		1+75		
N			5.8	279.5
ctr			7.2	278.1
S			7.2	279.1
		2+0		
S			6.3	279.0
ctr			6.4	278.9
N			5.1	280.2
		2+25		
N			5.4	279.9
ctr			5.8	279.5
S			5.8	279.5
		2+52 = W.L. Texas		
S			4.7	280.6
ctr			4.5	280.8
N			4.6	280.7

POSTED

Levels on Wightman St Alabama — Dunkle
To Texas " 60' wide — Shaw
B.M. Mon. University & Alabama 265.57 — Dyjak

B.M.	10.78	276.35	
E.L. Alabama			
N		14.2	~~264.2~~ 262.2
ctr		18.5	257.9
S		14.7	261.7
0+25 E			
S		11.8	~~266.6~~ 264.6
ctr		13.8	262.6
N		12.0	~~266.4~~ 264.4
0+50			
N		10.3	266.1
ctr		9.9	266.5
S		9.1	267.3
0+75			
S		7.3	269.1
ctr		7.8	268.6
N		8.2	268.2
1+00			
N		276.35	5.8 270.6
ctr			5.6 270.8
S			5.2 271.2
1+25			
S			2.8 273.6
ctr			3.4 273.0
N			3.0 273.4
T.P.	11.73	286.20	1.88 274.47
1+50			
N			10.2 276.0
ctr			10.8 275.4
S			10.9 275.3
1+75			
S			9.1 277.1
ctr			8.7 277.5
N			8.3 277.9

POSTED

286.20

2+0

N	6.6	279.6
Ctr	6.6	279.6
S	7.5	278.7

2+25

S	6.4	279.8
Ctr	5.5	280.7
N	5.5	280.7

2+50 = W.L. Mississippi 5+80'

N	4.2	282.0
Ctr	4.6	281.6
S	5.2	281.0

Center

S	3.5	282.7
Ctr	2.7	283.5
N	2.9	283.3

T.P. 9.31 293.34 2.17 284.03

293.34

E.L. Miss.

N	8.8	284.5
Ctr	9.1	284.2
S	9.4	283.9

0+25 E

S	9.2	284.1
Ctr	8.6	284.7
N	8.1	285.2

0+50

N	7.8	285.5
Ctr	8.3	285.0
S	8.8	284.5

0+75

S	8.3	285.0
Ctr	8.0	285.3
N	7.2	286.1

293.34

1+00

N		6.7	286.6
ctr		7.3	286.0
S		8.2	285.1

1+25

S		7.5	285.8
ctr		6.7	286.6
N		6.0	287.3

1+50

N		5.4	287.9
ctr		5.7	287.6
S		6.6	286.7

1+75

S		6.0	287.3
ctr		5.2	288.1
N		4.8	288.5

2+00

N		4.2	289.1
ctr		4.6	288.7
S		5.8	287.5

2+25

S		5.6	287.7
ctr		4.7	288.6
N		3.7	289.6

2+50 = W.L. Louisiana St 80'

N		3.0	290.3
ctr		4.0	289.3
S		5.5	287.8

Center

S		3.8	289.5
ctr		2.8	290.5
N		1.5	291.8
T.P.	10.61	303.49	0.46 292.88

303.49

E.L. Louisiana St

N		9.5	294.0
ctr		11.1	292.4
S		12.1	291.4
	0+25 E		
S		9.9	293.6
ctr		9.0	294.5
N		7.7	295.8
	0+50		
N		6.2	297.3
ctr		7.3	296.2
S		7.8	295.7
	0+75		
S		6.0	297.5
ctr		5.3	298.2
N		4.1	299.4

		1+0		
N			3.0	300.5
ctr			3.7	299.8
S			4.5	299.0
		1+25		
S			2.9	300.6
ctr			2.2	301.3
N			1.6	301.9
T.P	10.96	312.27	1.68	301.81
		1+50		
N			8.8	303.5
ctr			9.6	302.7
S			10.0	302.3
		1+75		
S			8.9	303.4
ctr			8.1	304.2
N			7.6	304.7

POSTED

312.27

2+0

N	6.6	305.7
ctr	7.2	305.1
S	7.7	304.6

2+25

S	6.9	305.4
ctr	6.0	306.3
N	5.5	306.8

2+50 = W.L. Texas

N	4.7	307.6
ctr	5.4	306.9
S	6.1	306.2

POSTED

Levels on Landis St Louisiana 5/6/09 Dunk
To Alabama " 60' wide Shaw
B.M. [illegible] S.E. Louisiana & Landis 288.47 Dizie

B.M.	1.34	289.81			
	W.L. Louisiana				
S			3.8	286.0	
ctr	POSTED		4.1	285.7	
N			4.3	285.5	
	0+25 W				
N			5.1	284.7	
ctr			4.5	285.3	
S			3.9	285.9	
	0+50				
S			4.2	285.6	
ctr			4.5	285.3	
N			5.4	284.4	
	0+75				
N			5.3	284.5	
ctr			4.9	284.9	
S			4.8	285.0	

	1+0				
S			5.6	284.2	
ctr			5.8	284.0	
N			6.1	283.7	
	1+25				
N			7.2	282.6	
ctr			6.6	283.2	POSTED
S			6.3	283.5	
	1+50				
S			7.6	282.2	
ctr			7.6	282.2	
N			8.0	281.8	
	1+75				
N			9.3	280.5	
ctr			8.9	280.9	
S			8.8	281.0	

	289.81			
	2+0			
S		10.3	279.5	
ctr		10.5	279.3	
N		11.0	278.8	
	2+25			
N		13.5	276.3	
ctr		12.5	277.3	
S		11.5	278.3	
T.P.	1.77	278.74	12.84	276.97
	2+50 E.L. Mississippi St 80'			
S		1.8	276.9	
ctr		3.2	275.5	
N		4.6	274.1	
	Center			
N		7.1	271.6	
ctr		5.5	273.2	
S		4.1	274.6	

W. L. Miss. St

S	278.74	6.7	272.0	
ctr		7.7	271.0	
N		9.1	269.6	
				hub S.E Miss & Landis
T.P.	1.25	273.25	6.74	272.00
	0+25 W			
N		5.8	267.5	
ctr		3.4	269.9	
S		2.6	270.7	
	0+50			
S		4.3	269.0	
ctr		5.7	267.6	
N		9.2	264.1	
	0+75			
N		13.5	259.8	
ctr		8.7	264.6	
S		6.7	266.6	

		273.25		
		1+0		
S			9.4	263.9
Ctr			12.6	260.7
N			17.0	2√6.3
T.P.	0.63	261.65	12.23	261.02
		1+25		
N			8.1	2√3.6
Ctr			3.8	2√7.9
S			0.1	261.6
		1+50		
S			2.7	2√9.0
Ctr			6.3	2√√.4
N			10.6	2√1.1
		1+75		
N			12.5	249.2
Ctr			8.9	2√2.8
S			5.2	2√6.√

	2+0		
S	261.6√	7.8	2√3.9
Ctr		11.6	2√0.1
N		15.3	246.4
	2+25		POSTED
N		19.1	2426
Ctr		14.9	246.8
S		10.2	2√1.√
	2+50 = E.L. Hattama St		
S		12.6	249.1
Ctr		17.1	244.6
N		23.3	238.4

Levels on Dwight St Alabama to Texas St. " 60' wide 5/7/09 Drunkle Shaw Dezell

B.M. hub S.W. Mississippi, Dwight 278.30

B.M.	372	282.02			
	E.L. Alabama St				
N			15.9	266.1	
ctr			15.7	266.3	
S			16.0	266.0	
	0+25 E				
S			14.2	267.8	
ctr			14.0	268.0	
N			14.2	267.8	
	0+50				
N			12.2	269.8	
ctr			12.1	269.9	
S			12.3	269.7	
	0+75				
S			10.8	271.2	
ctr			10.9	271.1	
N			10.7	271.3	

POSTED

		1+0			
N			9.0	273.0	
ctr			9.3	272.7	
S			9.8	272.2	
		1+25			
S			8.4	273.6	
ctr			8.1	273.9	
N			7.8	274.2	
		1+50			
N			6.8	275.2	
ctr			7.0	275.0	
S			7.2	274.8	
		1+75			
S			6.3	275.7	
ctr			6.0	276.0	
N			5.9	276.1	

POSTED

2+0

N	282.02	5.1	276.9
ctr		5.0	277.0
S		5.2	276.8

2+25

S	4.3	277.7
ctr	4.2	277.8
N	4.3	277.7

2+50 = W.L. Mission 55+00, 57.80'

N	3.5	278.2
ctr	3.6	278.4
S	3.7	278.3

center

S	3.6	278.4
ctr	3.9	278.1
N	4.6	277.4

E.L. Mission St

N	282.02	8.4	273.6
ctr		6.6	275.4
S		5.2	276.8

0+25 E

S	6.2	275.8
ctr	8.3	273.7
N	12.4	269.6

0+50

N	7.9	274.1
ctr	9.9	272.1
S	6.9	275.1

0+75

S	6.5	275.5
ctr	6.6	275.4
N	5.6	276.4

		1+0		
N		282.02	4.0	278.0
ctr			5.0	277.0
S			5.7	276.3
		1+25		
S			4.8	277.2
ctr			3.7	278.3
N			2.5	279.5
		1+50		
N			1.1	280.9
ctr			2.2	279.8
S			3.6	278.4
T.P.	11.02	292.89	0.15	
		1+75		
S			13.5	279.4
ctr			12.1	280.8
N			10.9	282.0

	2+0		
N	292.89	10.6	282.3
ctr		11.5	281.4
S		12.4	280.5
	2+25		
S		11.9	281.1
ctr		11.7	281.2
N		11.2	281.7
	2+51 = W.L. Louisiana St 80'		
N		11.5	281.4
ctr		11.5	281.4
S		11.9	281.0
	center.		
S		10.9	282.0
ctr		11.3	281.6
N		11.1	281.8

E. of Louisiana

N	29.89	9.7	283.2
Ctr		10.6	282.3
S		11.1	281.8
	0+25 E		
S		9.9	283.0
Ctr		10.1	282.8
N		9.5	283.4
	0+50		
N		8.7	284.2
Ctr		10.0	282.9
S		10.1	282.8
	0+75		
S		8.9	284.0
Ctr		9.5	283.4
N		9.4	283.5

	1+0		
N		8.9	284.0
Ctr		9.1	283.8
S		8.5	284.4
	1+25		
S		8.0	284.9
Ctr		8.2	284.7
N		8.3	284.6
	1+50		
N		7.1	285.8
Ctr		7.7	285.2
S		7.5	285.4
	1+75		
S		7.0	285.9
Ctr		6.9	286.0
N		6.9	286.0

	2+0		
N	292.89	5.8	287.1
ctr		6.0	286.9
S		5.8	287.1
	2+25		
S		4.8	288.1
ctr		4.6	288.3
N		4.5	288.4
	2+51.2 = W. L. Texas & P.		
N		3.1	289.8
ctr		2.8	290.1
S		3.2	289.7

Levels on Wightman St Oregon To					Dunk
Idaho	"	60' wide		5/7/09	Shaw
B.M. brass Plg Mon Univ & Oregon				338.85	Dizier
B.M.	8.62	347.47			
	E.L. Oregon				
S			5.9	341.6	
ctr			6.4	341.1	
N			6.7	340.8	
	0+25 E.				
N			5.8	341.7	
ctr			5.5	342.0	
S			5.2	342.3	
	0+50				
S			4.6	342.9	
ctr			5.0	342.5	
N			5.1	342.4	
	0+75				
N			4.4	343.1	
ctr			4.7	342.8	
S			4.3	343.2	

POSTED

		1+0		
S		347.47	4.0	343.5
ctr			4.1	343.4
N			4.0	343.5
		1+25		
N			3.5	344.0
ctr			3.6	343.9
S			3.3	344.2
T.P.	5.27	350.33	2.41	345.06
		1+50		
S			5.9	344.4
ctr			6.0	344.3
N			5.9	344.4
		1+75		
N			5.8	344.5
ctr			5.9	344.4
S			6.1	344.2

350.33

2+0

S 5.6 344.7

Ctr 5.5 344.8

N 5.6 341.7

2+25

N 5.7 344.6

Ctr 5.7 344.6

S 5.4 344.9

2+65 = W.L. Idaho St

S 5.5 344.8

Ctr 5.6 344.7

N 5.5 344.8

...vels in Landis st Oregon T o 5/8/09 Dunk...
...aho st " 60' wide Shaw
B.M. hub S.E. Landis & Oregon 341.16 Dezill

B.M	6.02	347.18			
	E.L. Oregon st				
N			5.9	341.3	
ctr			6.0	341.2	
S			6.0	341.2	POSTED
	0+25 E				
S			4.7	342.5	
ctr			5.5	341.7	
N			5.6	341.6	
	0+50				
N			5.2	342.0	
ctr			4.8	342.4	
S			5.5	341.7	
	0+75				
S			5.2	342.0	
ctr			4.7	342.5	
N			4.8	342.4	

		1+0			
N			4.6	342.6	
ctr			4.3	342.9	
S			4.9	342.3	
		1+25			
S			4.7	342.5	
ctr			4.4	342.8	
N			4.3	342.9	
		1+50			
N			4.5	342.7	
ctr			5.0	342.2	
S			3.8	343.4	
		1+75			
S			4.6	342.6	
ctr			4.8	342.4	
N			4.6	342.6	

2+0

N	4.4	342.8
Ck	3.8	343.4
S	4.3	342.9

2+2S

S	4.4	342.8
Ck	4.7	342.5
N	4.4	342.8

2+6S = W.L. Idaho St

N	4.1	343.1
Ck	4.5	342.7
S	3.3	343.9

...vels on Dwight st Oregon 5/8/09 Dunkle
... Idaho " 60' wide Shaw
Bolt prob N.E. Oregon & Dwight 328.26 Dizill

B.M	10.52	338.78			
	E.L. Oregon st				
N			10.5	328.3	
ctr			10.8	328.0	
S			13.1	325.7	
	0+25' E				
S			12.7	326.1	
ctr			11.3	327.5	
N			9.8	329.0	
	0+50				
N			9.7	329.1	
ctr			10.3	328.5	
S			12.0	326.8	
	0+75				
S			11.1	327.7	
ctr			10.1	328.7	
N			8.3	330.5	

		1+0			
N			7.8	331.0	
ctr			9.2	329.6	
S			10.2	328.6	
		1+25			
S			8.8	330.0	
ctr			8.1	330.7	
N			8.2	330.6	
		1+50			
N			7.6	331.2	
ctr			8.2	330.6	
S			9.3	329.5	
		1+75			
S			8.3	330.5	
ctr			7.2	331.6	
N			6.1	332.7	

338.78

2+0

N	6.3	332.5
Ctr	6.1	332.7
S	7.1	331.7

2+25

S	6.1	332.7
Ctr	6.8	332.0
N	5.9	332.9

2+65 = W.L. Idaho St

N	3.2	335.6
Ctr	4.7	334.1
S	5.7	333.1

[illegible] on Myrtle st Oregon To 5/8/09					Dunkle
[illegible] " 60' wide					Shaw
[illegible] N.E. Myrtle & Oregon				326.58	Dyer
M.	8.64	335.22			
	E.L. Oregon				
N		335.2	8.6	326.6	
				326.5	
cte			8.7	POSTED	
S			7.7	327.5	
		0+25 E			
S		335.2	8.2	327.0	
cte			7.8	327.4	
N			7.3	327.9	
		0+50			
N		335.2	6.2	328.0	
cte			7.1	328.1	
S			6.1	329.1	
		0+75			
S		335.2	6.4	328.8	
cte			6.4	328.8	
N			6.2	329.0	
T.P	8.86	338.00	6.08	329.14	

	1+0	POSTED		
	338.0			
N	~~335.2~~	8.4	329.6	
cte		8.5	329.5	
S		8.5	329.5	
	1+25			
S	338.0	8.0	330.0	
cte		7.8	330.2	
N		8.1	329.9	
	1+50			
N	338.0	7.0	331.0	
cte		7.0	331.0	
S		7.0	331.0	
	1+75			
S	338.0	6.5	331.5	
cte		6.6	331.4	
N		6.4	331.6	

2+20

N	338.0	5.2 — 332.8
etc		5.6 — 332.4
S		6.2 — 331.8

2+25

S	338.0	5.9 — 332.1
etc		5.8 — 332.2
N		5.5 — 332.5

2+35 = W.C. Idaho St

N	338.0	3.5 — 334.5
etc		4.4 — 333.6
S		5.3 — 332.7

Sewer Construction
Alabama + Myrtle

3/16/75 Moore Preston Walker

256.41

D.E. 40' S of Dwight = 0+00	1.03	255.38	249.50	+ 5.88
+ 50 S	1.51	254.90	249.15	+ 5.75
1	1.90	254.51	[illegible]	+ 5.71
+ 50	2.28	254.1	[illegible]	+ 5.68
2	3.05	253.3	[illegible]	+ 5.26
+ 50 = M.H.	3.21	253.2	247.75	+ 5.45
+ 98.8	3.58	252.8	[illegible]	+ 5.43
347.6	3.92	252.9	247.05	+ 5.44
396.4	4.20	252.1	246.70	+ 5.51
445.2	4.60	251.1	245.35	+ 5.46
494.0 = M.H. & Myrtle	4.93	251.8	246.0	+ 5.48
542'	5.54	250.7	246.50	+ 4.37
590'	6.20	250.1	247.0	+ 3.21
638' Brk	4.88	250.53	247.50	+ 4.03
689' S	2.95	250.46	249.37	+ 4.09
740	0.82	255.9	251.25	+ 4.34
791	3.59	257.1	253.12	+ 4.65

261.36

255.96 Dwight + Ala. NEBP
0.45
256.41
0.82
255.59
5.77
261.36

stubs = 2' offset

M.H = 4' ✓

Sewer Construction Fla. + Myrtle

	~201.36				
84 ~ S = DE.		1.79	~59.57	~55.0	~4.57
MH. & Fla. + Myrtle = 0+00				246.0	(5+48)
30 W		10.0 ~	~51.34	244.25	+ 7.09
	~248.9~				
60 W Brk		2.35	~46.57	242.50	+ 4.07
110		9.8~	~39.10	236.37	+ ~.73
	~36.6~				
160		3.08	~33.54	230.25	+ 3.29
210		9.31	~7.31	~24.12	+ 3.19
	~24.78				
~60 Brk		3.76	~11.0~	~18.0	+3.0~
310		12.68	~1.10	210.0	+ 2.10
	~12.67				
360 13rk		8.0~	~04.6~	202.0	+ 2.6~
404		11.31	~01.36	198.75	+ 2.61
	204.99				
448 W = Existing MH. & Florida				195.50	
				195.0	

201.36	
12.72	
248.64	
0.28	
248.92	
12.97	
35.95	
0.67	
36.62	
12.08	
24.54	
02	
24.78	
12.68	
12.10	
03	
12.67	
11.31	
01.36	
3.63	
04.99	

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