

W
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DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1.

For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	0
1	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	1
2	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	2
3	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	3
4	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	4
5	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	5
6	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	6
7	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	7
8	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	8
9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	9
10	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	10
11	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	11
12	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	12
13	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	13
14	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	14
15	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	15
16	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	16
17	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	17
18	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	18
19	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	19
20	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	20
21	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	21
22	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	22
23	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	23
24	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	24
25	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	25
26	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	26
27	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	27
28	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	28
29	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	29
30	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	30
31	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	31
32	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	32
33	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	33
34	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	34
35	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	35
36	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	36
37	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	37
38	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	38
39	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	39
40	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 30.6. For same slopes but other widths of roadbed, correct above figures by one-half difference in width of roadbed; thus in example above, for 20 ft. roadbed distance will be $30.6 + (20 - 16) \div 2$ or 2 ft. added to $30.6 = 32.6$. For slopes of 1 on $1\frac{1}{2}$ see inside of back cover.

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The paper stock of this book is made of a high grade 50% rag paper having a water resisting surface. This book is sewed with Bing Special Enamel Waterproof Thread.

Made in U. S. A.

INDEX

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FULL

Upas St Pipe Line Loc - 5th

4 H.I. - Elev. Grade

3.11 292.18 ✓ 289.07

TP 5.28 290.21 ✓ 7.25 284.93

0+00 5.3 84.9 ✓ 78.5

0+50 5.3 84.9 ✓ 78.45

1+00 5.4 84.8 ✓ 78.4

1+50 5.5 84.7 ✓

2+00 6.0 84.2 ✓

2+27 5.5 84.7 ✓

2+50 6.0 84.2 ✓

3/14/40

to Pacific Blvd

Cut

Hill
Super
Brooks

B.P. S.W. Cor of 6th & Upas

C-6.4

C-6.4

C-6.4

Top of sewer M.H. of 4th Ave = El. 281.5

13.2

Howline 271.3

290.21

3+00 5.7 284.5 ✓ 79.6

C.4.9 ✓

+50 5.7 84.5 ✓ 79.6

C.4.9 ✓

4+00 5.9 84.3 ✓ 79.4

C.4.9 ✓

TP 3.87 288.17 ✓ 5.91 284.30 ✓

4+50 4.0 84.2 ✓ 79.2

C.5.0 ✓

5+00 4.2 84.0 ✓ 79.0

C.5.0 ✓

+50 4.7 83.5 ✓ 79.0

C.4.5 ✓

6+00 5.6 82.6 ✓ 78.0

C.4.6 ✓

28817

6+50 6.6 281.6' 77.0

c-4.6

7+00 7.6 80.6' 76.0

c-4.6

+50 8.6 79.6' 75.0

c-4.6

8+00 9.1 79.1' 74.0

c-5.1 Grade change 7+50 - 8+90 page 72

TP 1.99 280.29' 7.87 278.30'

1.37 278.92'

B.P. N.W. Cor. of 2nd & Upas.
Rec. Elev. 278.90

280.29

8+285

2.0 278.3 ✓

+50

3.7 76.6 ✓

9+00

8.5 71.8 ✓

TP 0.54 269.94 ✓ 10.89 269.40 ✓

9+50

3.1 66.8 ✓

10+00

7.9 62.0 ✓

269.94

10+29 10.6 259.3 ✓

+30 39.2

+50 11.2 58.7 ✓

11+00 12.2 57.7 ✓

+09 12.5 57.4 ✓

TP 12.45 257.49 ✓

3/15/40/
Hill notes
Soper &
Brooks-red

1.29 258.78 ✓ 257.49 ✓

.41 55.0

11+50 4.4 54.4 ✓

B.P. S.W. Cor. 1st & Upas Rce. Elev. 257.51

25878

11457 53.8

12+00 8.6 50.2 ✓

+50 12.8 46.0 ✓

TP 3.34 249.33 ✓ 12.79 245.99 ✓

13+00 7.3 42.0 ✓

+16²⁰ 8.1 41.2 ✓

+22 9.3 40.0 ✓

+22 11.3 38.0 ✓

+50 8.8 40.5 ✓

159 9.2 40.1 ✓

Top of drain grating - 17' S. of d.

E. line 12" culvert 17' S

Top of drain grating 12' N of d.

249.33

+59 13.9 235.4 ✓

+59² 9.3 40.0 ✓

+59² 8.6 40.7 ✓

~~A 449 245.72 8.40 240.93 ✓~~

~~+97 5.0 40.4 ✓~~

~~+97 7.8 37.6 ✓~~

~~14+00 7.8 37.6 ✓~~

~~14+10 8.3 37.1 ✓~~

~~14+10 14.3 31.1 ✓~~

~~T.P. 9.59 235.83 ✓~~

~~T.P. 0.34 232.99 12.77 232.65 ✓~~

E. line of 12" drain 12⁵ N. of E

Bot. curb

Top of curb

Top rubble wall

Bot. "

See final profile of
13466 - 13496
page 39 this book

Top rubble wall

Bot. "

Turn across marine

	232.99		
14+14	1.7	231.3	✓
14+14	3.1	229.9	✓
14+17	3.1	229.9	✓
14+20	3.9	229.1	✓
14+22	8.3	224.7	✓
14+24	8.3	224.7	✓
14+24	10.6	222.4	✓
14+31	11.0	220	✓
14+31	15.0	218.0	✓
TP	0.83	220.82	1300 219.99 ✓

8

Top rubble wall

Bot " "

E. side corner steps

W. " " "

Top rubble wall

Bot " "

Top " "

Bot " "

220.82

14+35 2.9 217.9 ✓

14+35 5.0 15.8 ✓

14+44 5.0 15.8 ✓

14+44 7.9 12.9 ✓

14+50 8.5 12.3 ✓

14+50 8'R 7.8 13.0 ✓

14+60 8.3 12.5 ✓

14+60 11.0 09.8 ✓

14+60 2'L 10.5 10.3 ✓

14+63 5'R 12.1 08.7 ✓

14+65 12.7 08.1 ✓

9

Top rubble wall

Bot "

Top "

Bot " "

Top 12" galv iron drain pipe

Top rubble wall

Bot "

Top of 12" galv iron pipe (discharge)

Flowline 16" galv iron pipe (discharge)

22082

14+69		12.7	208.1
14+69		11.0	09.8
14+82		10.7	10.1
14+90		7.8	13.0
15+00		2.1	18.7
T.P.	11.15	231.60	0.37 220.45
15+18		1.5	27.1
15+19		1.5	30.1
15+28		0.8	30.8
T.P.	9.07	240.54	0.13 231.97
15+29		1.9	232.6

Top rubble wall

Bot rubble wall

Top " "

Top of wall

	240.54				✓
15+33		6.7	233.8		✓
15+33		4.5	36.0		✓
15+50		3.1	37.4		✓
15+55		2.3	38.2		✓
		4.7	236.83	5	✓
T.P.	656	245.76	1.34	239.20	✓
15+58		5.1	40.1		✓
15+63		4.6	41.2		✓
15+82		3.2	42.6		✓
T.P.	550	250.78	0.48	245.28	✓
15+93.7		5.9	44.9		✓
16+00		6.0	44.8		✓

Top of rubble wall

Check on turn set from Esida

	250.78			
16+03.7		6.0	244.8	✓
16+03.7		6.7	244.1	✓
16+03.7		8.5	242.3	✓
+16.5			41.8	240.0
16+25		5.2	245.6	✓
16+41.06		5.0	245.8	✓
+50		5.0	245.8	✓
17		5.3	245.5	✓
+50		5.9	249.9	✓
18+TP	3.00	247.36	6.42	244.36

Top curb

Bot. curb & top catch basin

Flow line catch basin

Sewer ring - Bottom of pipe

	247.36		
18+50		3.5	243.9
18+70		3.7	43.7
19		4.3	43.1
+41		5.5	41.9
+50		5.4	42.0
20		6.6	40.8
BM		4.75	242.61
+10		6.9	40.5
TP	1.01	235.41	1296 234.90
20+35		13.7	21.7
TP	0.02	222.65	12.78 222.63

Revised see
page 45

Set nail in pole S.W. cor. Brant + Upas

222.65

20+50 8.2 214.5

TP 0.33 210.01 12.97 209.68

+59 0.4 09.6

TP 0.60 197.63 12.98 197.03

+66 1.9 95.7

+78 7.8 92.8

21 7.3 93.3

+07 4.2 93.4

+14 3.9 93.7

TP 0.13 189.91 12.85 189.78

+81 6.1 78.8

TP 0.96 172.42 12.95 171.96

Revised
see page 45

14

$$\begin{array}{cccc} 1.9 & 1.9 & +6.9 & +6.9 \\ L3 & E & 1'R & 5'R \end{array}$$

$$\begin{array}{cccccc} 3.9 & 2.9 & 5.1 & 9.3 & 9.2 \\ LC & L 1.5 & E & 4'R & 8'R \end{array}$$

✓
172.92

21+50 4.0 168.4

+63 10.5 61.9

T.P. 1.03 ✓ 160.70 12.75 ✓ 159.67

+83 4.0 56.7

22 6.2 54.5

+25 6.7 54.0

+50 8.2 52.5

23 12.1 48.6

T.P. 0.71 ✓ 148.54 12.87 ✓ 147.83

+25 3.9 44.6

+50 4.5 44.0

*Revised
see page 15*

		✓ 178.54		
23+90.33			9.1	139.4
24			11.7	37.1
+15			13.1	35.4
T.P.	1.62	✓ 137.32	12.84	✓ 135.70
T.P.	0.37	✓ 129.69	13.00	✓ 124.32
24+29.2			2.0	22.7
24+43			2.6	22.1
24+43			3.5	21.2
+50			3.8	20.9
25			7.2	17.5
+50			10.6	14.1

Top of cut

E. edge corner walk

E. curb Top

" " Bot

	124.69		
25+75		11.9	112.8
+81.5		11.8	12.9
26		11.3	13.4
B.M.		9.14	115.55
+22		11.0	13.7
+50.9		11.5	13.2
+50.9		10.6	14.1
+60		9.9	14.8
+80			20.5
+82.48		2.1	122.6
T.P.	12.32	136.42	0.59
27		10.2	26.2
+35			34.5
T.P.	12.78	128.47	0.73

17

Top of
Fire plug S.E. cor. Reynard Way + Curlew.

Bot. curb

Top. "

	148.97		Grade	Cut
27+50		5.8	142.7	
T.P.	12.18	159.91	101	147.46
+75				51.5
+79			6.9	53.0
T.P.	12.94	172.05	0.80	167.11
27+98			9.0	63.1
28+00				63.0
28+06			9.6	62.5
28+06			10.3	61.8
+20				63.6 156.5
B.M.			8.65	163.90
+50			4.7	67.4 160.0
T.P.	12.56	184.95	0.16	171.89
29			11.3	73.2 65.8
+50			5.4	79.1 71.6
T.P.	12.92	197.31	0.06	184.39
30+00			12.3	85.0 77.4

Rim M.H. 3.5 to flow line.

159.1
3.6
155.6

Top curb
Bot.

7.1 ✓
7.4 ✓
7.4 ✓
7.5 ✓
7.6 ✓

Nail in S. side post pole 10's. at 28+06.

197.31

30+25		87.9	180.3
30+50	6.4	190.9	183.5
+75		93.9	187.1
31+00	0.5	96.8	190.2 92.2

TP	13.08	210.30	0.03	197.28	196.1
+50		7.7	202.7	94.1	4.6
+67			04.7	198.1	6.6
+70			05.1	198.5 200.5	5.8

32		1.8	08.6	204.0	4.6
----	--	-----	-----------------	-------	-----

TP	12.98	223.00	0.34	210.02	196.1
+17				212.0	206.2
+50		8.5	14.5	09.9	4.6
+93			19.6	15.0	4.6

33		2.6	20.4		
----	--	-----	------	--	--

+09			21.4	16.5	4.9
+17		0.8	22.2		

TP	12.89	235.37	0.52	222.48	
+25			22.6	17.5	5.1
+33		12.3	23.1		
+41			23.1	13.1	5.0

19

7.6

7.4

6.8

6.6

4.6

6.6

4.6

6.6

5.8

4.6

4.5

4.6

4.6

4.9

5.1

5.0

	✓ 235.37		
33+50	12.2	✓ 223.2	
+70		23.0	218.5
+70.5	12.4	23.0	
+90		23.8	
+98.29	11.3	24.1	
34+10		24.7	
34+50	8.5	26.9	
35	5.9	29.5	
+25		30.2	
+50	4.5	30.9	
+73.7	4.4	31.0	
+75		31.0	
+86	4.5	30.9	
36	4.1	✓ 231.3	

45

Wedge pare. Goldfinch

E. edge par. Hawk St

233.37

36+39.5 4.6 30.9

+39.5 3.9 31.5

+49 3.8 31.6

+52 7.1 31.3

B.M. 1.84 233.53

T.P. 12.47 222.90

0.87 223.77

A 0.50 211.37 12.90 210.87

+85 6.5 04.9

T.P. 0.65 199.10 12.92 198.45

37 2.9 96.2

Bot. of curb

Top "

Top of fire plug S.E. cor. Hawk & Upson

3/16/90

199.10

T.P. 0.74 186.80 13.04 186.06

+30 80.5

37+35 8.9 77.9

T.P. 130 175.08 13.02 173.70

+50 2.7 72.4

+75 10.6 64.5

+92 61.7

38 17.8 60.3

+08 60.0

+24 59.3

+50 17.0 58.1

+67 17.0 58.1

39 11.9 63.2

+28 4.9 70.2

✓
17508

39+50

6.0

169.1

+75

9.0

66.1

+88

13.9

61.2

T.P. 281 16504 1285 162.23 ✓

40

6.1

58.9

+22

7.1

57.6

+50

13.0

52.0

41

13.4

51.6

+30

9.8

55.2

+50

6.1

58.9

		✓ 165.09		
41	+62		4.2	160.8
T.P.	1244	✓ 177.25	0.23	✓ 164.81
42			1.7	75.9
T.P.	1275	✓ 189.80	0.20	✓ 177.05
T.P.	1266	✓ 202.15	0.31	✓ 189.49
+60			7.5	94.7
T.P.	1271	✓ 214.44	0.12	✓ 201.73
+80			7.1	07.3
T.P.	1286	✓ 226.83	0.47	✓ 213.97
43			10.2	16.6
+17			2.0	24.8
386				✓
+37			1.2	225.6
B.M.			2.18	✓ 224.65

S. edge part on Kito St.

Nail in pow pole S. curb sta 44+04

BM. 12.94 237.59 ✓ 224.65 ✓

T.P. 10.78 298.09 ✓ 0.28 237.31 ✓

BM. 3.48 244.61 ✓

BM 2.25 226.90 ✓ 224.65 ✓

13+50 1.3 25.6

+72.24
+70.65 1.6 25.3

44 2.8 24.1

+50 5.2 21.7

+69 6.3 20.6

45 9.2 17.7

T.P. 0.65 215.17 ✓ 12.38 214.52 ✓

from preceding page

B.P. N.W. cor Kite & Walnut Fl 244.58

For Profile Sta 43+55 to 46+10
see page 73 of this Book.

	✓ 215.17		
+5+50		2.5	✓ 212.7
+90		6.3	08.9
+6		6.9	✓ 208.3
+43		9.6	05.6
+44		9.2	06.0
+50		10.1	05.1
+60		10.9	04.3
+66		12.6	02.6
TP	0.36	✓ 202.91	✓ 12.62 202.55
+90		5.2	197.7

Bot. of curb W. side of Union

Top " " " " " "

		20291		
77			5.9	197.0
+27			2.6	93.3
+32			13.1	89.8
T.P.	0.83	191.00	12.74	190.17
+50			2.7	88.3
48			12.1	78.9
T.P.	0.06	178.37	12.69	178.31
+47			8.0	70.4
+56			10.9	67.5
T.P.	0.81	166.43	12.75	165.62
+56			3.7	62.7
+92.5			7.6	61.8

Note E. edge part covered by slide.

Bot of curb - State St

166.13
18+92.3 3.9 162.5

19 1.2 62.2

+05 4.1 62.3

3.92 162.57

0.57 163.08

+13 4.6 58.5

+50 13.7 49.4

+25 12.1 51.0

T.P. 121 151.92 12.87 150.21

50 2.8 48.6

+26 8.4 43.0

Line moved 5' north
Sta. 49 to 53
See page 47

3/19/10

L E R

28

Top of curb

Set B.M. Nail in power pole, S.W. Cor. of States & Upas

Level
14 $\frac{+3.9}{10}$ $\frac{+3.0}{7}$ $\frac{-4.7}{10}$ $\frac{-6.1}{20}$

$\frac{+8.7}{13}$ $\frac{+7.0}{9}$ $\frac{+5.4}{1.5}$ $\frac{+0.5}{1}$ $\frac{-8.5}{9}$ $\frac{-8.2}{12}$ $\frac{-6.0}{13}$ $\frac{-6.2}{20}$

$\frac{-12.3}{22}$

$\frac{+3.2}{10}$ $\frac{+1.9}{6}$ $\frac{-0.3}{1}$ $\frac{-10.0}{3}$ $\frac{-14.1}{8.5}$ $\frac{-14.5}{12}$ $\frac{-12.8}{10}$

$\frac{+3.3}{11}$ $\frac{+1.8}{6}$ $\frac{-15.2}{8}$ $\frac{-15.9}{12}$ $\frac{-14.1}{13}$ $\frac{-13.1}{22}$

$\frac{+2.3}{11}$ $\frac{-0.3}{1}$ $\frac{-12.7}{4}$ $\frac{-15.0}{10}$ $\frac{-12.9}{16}$ $\frac{-12.7}{23}$

15-1.72
 T.P. 0.15 138.93 12.64 138.78

50+50 6.3 32.6

+55 2.9 34.0

51 7.5 31.4

+25 9.7 29.2

T.P. 0.58 126.67 12.84 126.09

+50 1.9 24.8

52 2.8 16.9

T.P. 0.36 114.14 12.89 113.78

+42 1.7 12.4

+50 1.3 09.8

+72 6.2 07.9

+91 10.7 103.4

Revised
 See page 47

L Z R

$\frac{+6.8}{10} \frac{+1.1}{2.5} \frac{-6.2}{7} \frac{-6.2}{12} \frac{-5.4}{14} \frac{-6.2}{24}$

$\frac{+4.4}{10} \frac{+2.5}{4} \frac{-1.0}{3} \frac{-8.0}{7} \frac{-8.0}{10} \frac{-7.5}{12} \frac{-8.0}{23}$

$\frac{+3.3}{10} \frac{-0.7}{2} \frac{-1.2}{4} \frac{-8.7}{4} \frac{-10.3}{6} \frac{-11.3}{22}$

$\frac{+2.7}{10} \frac{-0.5}{2} \frac{-2.0}{3.5} \frac{-12.3}{23}$

$\frac{+3.5}{8} \frac{-0.8}{3} \frac{-8.0}{5.5} \frac{-8.9}{22}$

$\frac{+1.0}{10} \frac{+3.6}{6} \frac{+2.9}{5.5} \frac{-0.6}{3.5} \frac{-5.2}{6} \frac{-6.2}{19}$

$\frac{+3.6}{12} \frac{+2.9}{8.0} \frac{+1.7}{7.5} \frac{-0.1}{1} \frac{-6.0}{2} \frac{-5.8}{16}$

$\frac{+3.7}{10} \frac{+2.5}{5} \frac{-5.0}{2} \frac{-4.4}{16}$

$\frac{+3.0}{10} \frac{-7.1}{2.5} \frac{-6.8}{16}$

$\frac{-5.0}{16} \frac{-3.6}{12} \frac{+3.7}{12} \frac{+3.4}{7} \frac{-6.3}{2.5} \frac{-6.0}{16}$

		119.19		
53			13.0	101.1
TP	0.01	101.56	12.60	101.54
+50			12.6	89.0
TP	0.56	89.00	13.11	88.44
+73			3.3	85.7
+95			5.0	84.0
54			5.1	83.9
B.M.			5.07	83.93
+30			5.7	83.3
+50			6.4	82.6
+70.5			7.1	81.9

L	±	R
$\frac{-8.0}{11}$	$\frac{-3.0}{7}$	$\frac{+1.9}{4}$
		$\frac{-4.5}{1}$
		$\frac{-4.6}{18}$
		$\frac{-0.7}{10}$
		$\frac{-0.1}{18}$

E edge part India St.

B.P. S.E. cor. India + Upas El. 83.93

W. edge part

		89.00		
54	776		8.7	80.6
T.P.	0.32	76.63	12.69	76.31
	+96		7.7	68.9
	+98		9.5	67.1
	55		2.0	67.6
	+13		11.8	64.8
T.P.	0.20	64.03	13.00	63.63
	+50		5.4	58.6
	+75		2.6	54.4
	56		12.7	51.6
T.P.	0.07	51.40	12.70	51.33
	+30		3.4	48.0

Flow line storm sewer

✓
51.90

56+50 6.5 44.9

+70 10.8 40.6

+82 11.6 39.8

97.8 11.4 40.0

57 11.7 40.0

+15.5 11.5 39.9

+32 12.0 39.4

+44.3 12.5 38.9

B.M. 10.84 40.56

+50 12.7 38.7

E. edge part. Kettner Bild.

E. rail E. fork

W. rail W. fork

W. edge part.

B.P. S.E. cor Kettner + Upas

51.40

T.P.	1.23	39.75	12.88	38.52
------	------	-------	-------	-------

57+69		3.9	35.9
-------	--	-----	------

58		6.7	33.1
----	--	-----	------

+50		11.3	28.5
-----	--	------	------

T.P.	0.16	27.38	12.53	27.22
------	------	-------	-------	-------

59		2.8	24.6
----	--	-----	------

+29		5.1	22.3
-----	--	-----	------

+36		7.5	19.9
-----	--	-----	------

+50		8.6	18.8
-----	--	-----	------

+61		8.3	19.1
-----	--	-----	------

		✓ 27.38		
59	+69		5.5	21.9
	+788		4.3	23.1
	+861		5.0	22.4
	+92		6.2	21.2
60			9.7	17.7
	+08		12.1	15.3
BM	214	✓ 18.39	11.3	✓ 16.25
	+29		4.3	14.1
	+33		7.3	11.1
	+50		7.5	10.9

E. rail Santa Fe track

to track

Set nail in post, pole 20'S. of 60+08

1839

62+29.1 9.15 9.24

62+37.1 9.3 9.1

62+37.1 9.95 8.54

T.P. 12.39 30.24 0.57 17.85

T.P. 12.60 42.83 0.01 30.23

B.M. 2.27 40.56

35

E. edge of 5' corner walk

Top of curb E. side Pac Blvd

Bot. " " " "

Check on B.P. S.E. cor. Kettner & Upas

Loc. of Sewers Services etc

B.M. 4.9 288.9 289.0

5.2 283.7

10.9 78.0

3.2 85.7

8.9 80.0

B.M. 5.1 289.3 289.2

4.8 289.5

18.0 271.3

B.M. 5.25 284.15 278.90

5.1 79.1

12.1 72.1

3.8 80.4

10.3 73.9

B.M. 10.25 267.76 257.81

2.5 58.3

14.8 53.0

1.85 65.9

10.95 56.8

3/19/40 drizzling rain

Hill
Soper
Brookes

36

Sta 5+00

Rim of Sewer M.H. 3rd + Upas

✓ F.L. " " "

Rim " " " + Walnut

FL. " " " "

Sta 2+00

Rim of Sewer M.H. 4th + Upas

✓ FL. " " " "

B.P. N.W. cor 2nd + Upas

Rim of Sewer M.H. 2nd + Upas

✓ FL. " " " "

Rim " " " Walnut

FL. " " " "

B.P. S.W. cor 1st + Upas

Rim of M.H. (sewer) 1st + Upas

✓ FL. " " " "

Rim " " " Walnut

FL. " " " "

B.M. 11.0 251.93 240.93

11.5 240.4

15.1 36.8

1.0 50.9

11.6 40.3

B.M. 5.4 251.2 245.8

7.0 44.2

11.0 37.2

17+415 Water service S. side Upas

19+52 " " W. Brant

B.M. 2.65 247.01 244.36

4.55 42.46

8.95 38.06

B.M. 4.90 242.61

25+71 Hydrant SE cor, Curlew + Ray, W.

TP on profile line

Rim of sewer M.H. Front + Upas

✓ FL " " " "

Rim " " " Walnut

FL " " " "

Sta. 16+50

Rim of sewer M.H. 30's at SPL Upas + Albatross

✓ FL " " " "

TP on sta 18+00

Rim of sewer M.H. Brant + Upas

✓ FL " " " "

Set nail in pow pole S.W. cor Brant + Upas

BM.	0.38	124.70	124.32
-----	------	--------	--------

	3.9	120.8	
--	-----	-------	--

	9.6	15.1	
--	-----	------	--

	10.7	14.0	
--	------	------	--

	19.4	05.3	
--	------	------	--

BM.	9.15	115.55	
-----	------	--------	--

BM	6.9	197.8	190.9
----	-----	-------	-------

	5.3	192.5	
--	-----	-------	--

	10.6	187.2	
--	------	-------	--

BM.	5.1	228.6	223.2
-----	-----	-------	-------

	4.9	223.7	
--	-----	-------	--

	11.0	217.6	
--	------	-------	--

BM	5.2	230.5	231.3
----	-----	-------	-------

	5.0	31.5	
--	-----	------	--

	11.2	25.3	
--	------	------	--

TP. near sta. 24+50

Rim of M.H. (sewer) Right of 24+56 on Curlew

✓ FL. " " " "

Rim " " on Reynard Way

FL. " " " "

Fireplug S.E. cor. Rey. Way + Curlew

sta. 30+00

Rim sewer M.H. 30+64

✓ FL. " " " "

sta. 33+00

Rim sewer M.H. 33+45 (Goldfinch + Upas)

FL. " " " "

sta. 36+00

Rim M.H. Hawk + Upas

✓ FL. " " " "

B.M. 6.20 168.43 162.23

12.6 55.8

20.0 48.4

17.4 51.0

15.6 52.8

IP 10.50 178.67 0.26 168.17

0.5 78.2

6.7 72.0

B.M. 0.9 165.7 169.81

9.3

15.7 50.3

B.M. 4.0 212.3 208.3

5.8

19.1 193.2

T.P. near 39+88

39+30

Rim of sewer M.H. S.W. Cor of Upas and Tbis 30' S. of

F.L. " "

✓ F.L. of 4" drop inlet sewer

Intersec.
39+14.1

F.L. of 6" " " "

50' N. of 39+81

Rim of sewer M.H. at Tbis and N.P. line of Upas

F.L. " "

Intersec.
40+22.2

TIP 41+70

Rim M.H. of Jackdaw & N.P. Upas 10' N. of 41+60

Sta. 46+00

Rim M.H. (sewer) 30' R. of 46+22 Union

F.L. " " " "

BM. 4.98 167.49 162.51

5.2 62.3

15.7 51.8

5.12

5.0

10.3 57.2

BM. 6.83 90.76 83.93

7.4

12.6 78.2

3.2

8.2

BM. 3.25 94.51 90.56

1.75

11.75 33.16

3.2

9.8 34.7

Rim sewer MH. 30'R 48+64.7 State St

FL. " " " " " "

18+75.8 Intersec^{24"} pipe + sewer line

Rim Sewer MH. 20.0 L 48+82.9

FL. " " " " " "

Rim sewer MH. 20'R 64+61.5 Upas + India

FL. " " " " " "

Rim " near Thorn on India

FL. " " " " " "

Rim sewer MH. 20'R 36+86 Upas + Kattner

FL. " " " " " "

Rim " " Thorn " "

FL. " " " " " "

B.M.	4.7	23.2	18.8
		6.6	16.6
		11.45	11.75
	0.0	218.7	218.7
		7.1	211.6

Sewer at Kite + Upas

Elev. top of M.H. 223.3

5.3

Depth 218.0

" pare. over sewer 225.6

Sta. 59+60

Rim sewer M.H. 20' R 59+62 - Calitara st

FL.

Sta. 16+00

Top 6" concr pipe sewer sta. 14+90

Water Mains

4th & Upas sta. 2+17

Para elev. 289.6

Depth 2.0

Top of main 282.6 elev

3rd & Upas sta. 4+99

Para elev. 289.0

Depth 2.3

Top of Main 281.7 elev

2nd & Upas 7+78

Para elev. 279.3

Depth 2.7

Top of Main 276.6 elev

1st & Upas 10+68

Para elev. 258.5

Depth 2.5

Top of Main 256.0

Front & Upas - Sta. 13+39

Para elev. 240.8

Depth 2.2

Top of Main 238.6 elev

Albatross & Upas sta. 16+27

Para elev. 295.7

Note depth obtained
from adjacent gate valves Depth 2.5

Top of Main 293.2 elev

Brant & Upas. sta. 19+05

Para elev. 243.0

Depth 2.6

Top of Main 240.4 elev

Reynard Way & Upas 26+29

Para elev. 113.5

Note get depth from profile

Water Mains (cont.)

Crossing at 4" main 26+75

Sta 26+87.48 ground elev 192.6

-7.4
Top of pipe 115.2

Goldfinch & Upas 33+38

Para elev 223.3

Note: Depth taken
from adj. gate valves Depth 1.9

Top of main 221.4

Hawk & Upas 36+03

Para elev 231.3

Note get depth from profile

Fire hydrant 45+60

Para elev. 211.7

Depth 2.8

Top of main 208.9

Union & Upas sta. 45+98

Para elev. 208.9

Note Depth from adj.
gate valves. Depth 3.7

Top of main 201.7

State & Upas sta. 48+72

Para elev 162.3

Note Depth from adj.
gate valves Depth 2.9

Top of main 159.4

India & Upas sta. 51+21

Para elev. 83.5

Note Depth from adj.
gate valves Depth 2.2

Top of main 81.3

Kottner & Upas 56+95

Para elev. 40.0

Get depth from profile

Storm sewer on state & pas

B.M. 1.66 16217 16251

2.6

4.7 59.5

13.7 50.5

19

Top of grating (C.B) 7.3 L 18+98

FL. 20" steel pipe " "

" " " " 10'R 19+22

Revision Brant to Curlew

B.M.	368	246.29		242.61
18470			2.7	243.6
19			3.1	243.2
+40.7			4.8	241.5
+40.7			4.1	242.2
+50			4.0	242.3
+70			4.3	242.0
+93			5.8	240.5
+94			7.3	239.0
20			7.6	238.8
+10			5.9	240.4
T.P.	0.52	233.98	12.83	233.46
T.P.	0.54	221.71	12.81	221.17
20+50			6.6	215.1
				239.7
+60			12.1	209.6
				234.2
T.P.	0.85	209.96	12.66	209.05
T.P.	0.47	197.95	12.42	197.48
20+64			0.0	198.0

Hill
Super
Brooks
6/19/90
Upas St. Pipeline ext.

15

Void-see page 48

gutter

curb

(cont.)

197.95

20	69		5.0	193.0	✓
21			4.7	192.3	✓
	+12		4.5	193.5	✓
T.P.	0.76	186.11	12.60	185.35	✓
	+27		7.6	178.5	✓
T.P.	0.29	173.34	13.06	173.05	✓
	+50		7.0	166.3	✓
	+65		11.3	162.0	✓
22			7.3	166.0	✓
	+50		12.6	160.7	✓
T.P.	0.67	161.28	12.73	160.61	✓
23			7.8	153.5	✓
T.P.	1.40	149.66	13.02	148.26	✓
	+50		3.9	145.8	✓
23	8440		10.3	139.9	✓
23	790,33				

46

E. side tennis court

W. " " "

Revision between State & India Sts.

6/20/40 Hill
Sapar
Brooks

47

	Elev of old	Elev of north	See page 51
49+00	162.2	162.0	
49+02		162.0	
49+05	162.3		
+13	158.5	155.9	
+50	149.4	144.4	
+75	151.0	140.3	
50+00	148.6	135.9	
+26	143.0	129.9	
+50	132.6	129.2	
51	131.4	121.3	
+25	129.2	118.9	
+50	124.8	117.0	
52	116.9	111.3	
+50	109.8	104.8	
53	101.1	96.2	

Revision Brant to Curlew - Npas

B.M.	4.35	246.96		242.61
18+00			2.6	44.4
+22 ⁰⁰			2.8	44.2
+50			3.1	43.9
+72 ⁰⁰			3.3	43.7
19+00			3.8	43.2
+46 ⁸			5.4	41.6
+40 ⁸			4.8	42.2
+52 ⁰⁰			4.6	42.4
→ +77			5.4	41.6
+90			7.5	39.5
20+00			7.6	39.4
+07 ⁰⁰			6.7	40.3
+11			6.7	40.3
TP	0.81	234.91	12.86	234.10
TP	0.90	222.87	12.94	221.97
20+50			7.9	15.0

4.11
 20700
 19500
 St. Pipeline Ext.
 8/5/40
 48

gutter
 curb
 For profile beyond 19+52 see page 62

222.87

P	1.11	211.22	12.76	210.11
20+63			4.0	207.2
P	0.98	199.31 ^{.37}	12.83	198.39
+67			6.2	93.2
21+00			6.2	93.2
+12			6.0	93.4
TP	1.05	187.34 ^{.40}	13.02	186.29 ^{.35}
+27			8.3	79.1
TP	0.76	175.31 ^{.37}	12.79	174.35 ^{.61}
21+50			9.2	66.2
+63			13.8	61.6
+90			10.7	64.7
22+00			11.0	64.4
TP	1.53	163.74 ^{.80}	13.10	162.81 ^{.27}
+50			4.1	59.7
23+00			10.7	53.1
TP	1.06	152.72 ^{.18}	12.68	151.26 ^{.12}

.18
152.42

237.50

6.9 45.3

$\overline{11}$ 1.61 141.00
~~440.94~~ 13.79 139.33

244.00

5.1 35.9

241

24413⁰⁰ = Equ. 5.5 35.5

$\overline{11}$ 0.89 129.03
~~128.17~~ 12.86 128.08

2.84 118.86
~~119.80~~ 13.01 116.96

3.39 115.47
~~116.41~~

5.7 35.2
39.3

Top Fire Plug S.E. Cor. Reynard Way & Curlew

Rec Elev = 115.55
41
19
 .55
 .47
 .08

Cross section for benching - West Farm State St. L & R

	1.15	163.66		162.51
49+04				162.2
49+19 ²⁹ / ₄			11.2	52.5
TP	0.41	151.18	12.89	150.77
49+50			7.6	43.6
TP	0.60	138.87	12.91	138.27
50+00			3.6	35.3
+25'				29.8
50+50			10.7	28.2
TP	0.59	126.37	13.09	125.78
51+00			4.9	21.5
51+50			9.0	17.4
TP	0.34	113.89	12.82	113.55
51+67				
52+00			2.4	11.5

Nail in power pole S.W. Cor. of State & 11 pas

	+0.6	-0.7
	11	15
	+7.8	-0.6
	13	6

For profile & x-sect. see page 75

	+11.0	+13.1	-2.8	-0.6	-0.8
	13	7	4	7	15

	+13.5	+13.1	-3.6	-2.1	-1.6
	13	5	4	8	15

	+15.2	+13.5	-1.4	+0.3	+0.6
	13	3	4	9	16

	+10.8	+9.0	-2.2	-1.5	-1.8
	13	8	3	6	15

	+12.3	+9.2	-1.0	-1.5
	13	3	1	15

	+13.5	+6.7	-1.3
	13	2	15

Reduce 16' Roadway on L.

	+2.1	+4.8	+0.2
	13	1	15

113.89

52+50 9.3 104.6

P 0.61 101.43 13.07 100.82

52+96.4 4.6 96.8

53+47.9
53+46.26 = 12.4 89.0

P 2.20 90.79 12.84 88.59

6.90 83.89

82

L C R

$$\frac{+8.3}{13} \quad \frac{+6.0}{5} \quad \frac{0.0}{4} \quad \frac{+0.6}{10}$$

$$\frac{+9.5}{13} \quad \frac{+6.0}{4} \quad \frac{+0.2}{4} \quad \frac{+0.3}{10}$$

$$\frac{0.0}{7} \quad \frac{+2.5}{4} \quad \frac{+2.8}{1} \quad \frac{0.0}{10}$$

B.P.S.E. Cor. Indiana Upas Elev. 83.93

0+00 = End of 24" pipe at 5th & Ucas

Grades

0+00	278.5	7+00	276.0
+50	278.45	+50	275.0
1	278.4	+70	274.2
+30	278.4	8	274.0
+50	278.0	+16	271.8
+70	277.2	+20	273.2
+90	276.8	+32	271.5
2+10	276.8	+40	272.1
+30	277.2	+60	270.7
+80	279.2	+80	269.0
3	279.6	+90	268.0
+50	279.6	9	267.0
4	279.4	+50	262.3
+50	279.2	+90	258.2
5	279.0	10+00	256.5
+50	279.0	+22	255.2
6	278.0	+30	254.4
+50	277.0	+38	254.4
		+54	254.0
			250.6
		+70	251.0
		+86	253.7
		11+00	250.4
		11+02	253.1
		+18	252.2

Grades (cont.)

11+25	250.3	16+28	240.2
11+34	251.0	16+75	241.0
11+41	249.9	17+00	241.0
11+57	249.1	+50	241.5
12	245.7		236.4
+50	241.5	13	237.3
			234.4
		+25	235.6
			233.5
		+50	234.3
		+66	233.7
		+82	233.4
		14	233.4
		+50	204.6
		+80	204.6
		+97	211.6
		15+30	226.2
		+95	232.9
		+64	236.2
		+80	237.9
		+96	239.1
		16+12	239.9
			234.4
			219.5
			206.2
			188.5
			158.0
			158.0

Grades (cont)

22+16	157.6	27+00	120.0
+32	156.8	+25	128.7
+48	155.6	+75	147.0
+64	153.9	28	156.5
+80	151.8	+20	156.5
23+25	144.7	+50	160.0
+65	137.3	29	165.8
24+13	131.2	+50	171.6
24+30	118.1	30	177.4
+90	111.3	+25	180.3
		+50	183.5
25+06	109.6	+60	187.5
		+75	187.1
+22	108.3	31	192.2
		+50	196.1
+38	107.4	+50	198.1
		+70	198.5
+54	107.0	32	204.0
		+17	206.2
+70	106.9	+50	209.9
	107.1		
26+20	108.1	+93	215.0
55 ⁵	X 108.0		
+60	107.0	33+09	216.5
+80	113.4	+25	217.5

Grades (cont)

33+41	218.1	39+00	159.1
+70	218.5	+36	165.0
+90	219.1	+56	169.2
34+10	220.0	+72	160.4
+50	222.4	+88	157.0
35	224.8	40+01	159.1
+25	225.6	+20	151.6
+75	226.4	+40	149.0
36	226.4	41+05	146.9
+90	226.1	+60	156.0
37	191.8	42	171.2
+30	175.0	+50	190.2
+75	159.7	+70	198.2
+92	157.2	+90	206.6
38+08	155.3	43+19	X 219.4
		43+20	219.8
		+40	220.3
+24	153.8	+40	220.2
		+58	220.7
+40	152.7	+60	220.3
		+72 ²	220.7
+57	152.0	+80	220.0

Grades (cont)

43+90	220.0		
44+00	219.4	48+35	168.0
+40	217.5	+63	156.8
+58	216.5	48+90 x	156.8
+74	215.5	+96	148.8
+90	214.0	49+43 x	148.4
45+14	211.1	+30	142.9
+46	206.4	+46	139.1
+62	205.5	+62	135.7
+78	204.4	+80	132.3
+94	202.9	50+00 x	128.9
46+10	202.2	+20	125.7
+55	201.7	+40	123.0
+80	202.1	+70	119.7
47	200.9	51+00 x	116.4
+20	201.5	+30	113.7
+80	200.9	+60	111.0
+80	195.6	+80	108.7
+7	191.7	52+30 x	102.5
+20	188.2	+50	99.5
+60	181.8	+60	98.0
+80	178.3		
48	177.5		

52+96	92.6	57+20	33.3
53+00	92.0	57+40	32.9
53+28	87.0	57+56	32.2
53+44	84.6	57+72	31.0
53+50	84.5	57+88	29.4
53+68	82.6		
+76	81.1		
+92	80.0		
54+00	77.0		
54+08	79.3		
54+10	75.5		
54+70	75.5		
55+04	61.6		
55+45	53.4		
55+61	50.4		
55+77	47.8		
56+34	39.9		
56+50	37.8		
56+66	36.1		
56+82	34.9		
57+00	34.0		

Profile - 4' offsets

ENV.	1000-ft	5.03	289.83	284.8	Grade
1430		5.2	84.6	278.4	
1450		5.2	84.6	78.0	
1470		5.2	84.6	77.2	
1490		5.5	84.3	76.8	
2+10		5.4	84.4	76.8	
2+30		5.1	84.7	77.2	
2+80		5.3	84.5	79.2	

Cut

6.2

6.6

7.4

7.5

7.6

7.5

5.3

Profile of offsets

B.M.	0.94	279.86	278.92
8+20	1.5	78.4	73.2
+40	2.5	77.4	72.1
+60	4.4	75.5	70.7
+80	6.3	73.6	69.0
9+00	8.2	71.7	67.0
+50	13.1	66.8	62.3
TP	1.15	267.87	13.12 266.74

B.P. N.W. Cor. of 2nd Ugas

5.21

5.3

Grade change 7+50-8+90 - page 72

4.8

4.6

4.7

4.5

267.89

9+90 x	5.1	262.8	258.2
10+06	6.6	61.3	56.5
+22	8.2	59.7	55.2
+30		59.0	254.4
+38	9.0	58.9	54.4
+54	9.3	58.6	54.0
+70 x	9.6	58.3	250.6
+86	9.9	58.0	53.7
11+00		57.6	250.4
11+02	10.3	57.6	53.1
+35 x		256.1	250.3
+41	11.2	56.7	52.2
+41		254.8	249.9
+44	12.5	55.4	51.0
TP	0.97	256.00	12.86 255.03
11+50	7.9	54.1	49.7
11+57		53.5	249.1
12+00	6.0	50.0	45.7
+50	10.2	45.8	41.5
TP	3.46	246.52	12.94 243.06
13+00	4.7	41.8	36.4
+35	5.6	40.9	34.4
+50	6.0	40.5	33.5
592	5.8	240.7	

4.6
4.8
4.5
4.6
4.5
4.6
7.7
4.3
4.3
7.2
4.5
5.8
4.5
4.9
4.4
4.4
4.4
4.3
4.3
5.4
4.5
6.5
5.3
7.0
7.2

Change copied to Book 564

copied to Book 564

Top of curb - 240.7

Profile 4' offsets

BM	7.00	249.61	242.61
16+12	5.0	44.6	239.9
+28	4.0	45.6	40.2
16+41.06	3.9	45.7	40.4
+75	4.1	45.5	41.0
17	4.3	45.3	41.0
+50	4.9	44.7	40.4
18	6.3	44.3	39.9
+20	5.5	44.1	39.65
+40	5.7	43.9	39.4
+56	6.9	43.7	38.8
+97	6.3	43.3	36.2
19+13	6.8	42.8	35.6
+30	7.4	42.2	35.4

P. pole S.W. ear - Upas & Brant

4.7
5.4
5.3
4.5
4.3
4.3
4.4
4.4
4.5
4.9
7.1
7.2
6.8

Final profile of ξ and offsets

B.M.	0.56	258.05		257.49
	0.47	245.62	12.90	245.15
13+66			5.0	40.6 33.5
6'lt			5.0	40.6 33.7
13+82			5.2	40.4
6'lt			5.1	40.5 33.4
13+98			5.3	40.3 33.4
13+98			8.0	37.6
14+00			8.0	37.6
6'lt			8.4	37.2 33.4
14+09.5			8.4	37.2
TP	1.44	234.68	12.38	233.24
14+11			3.4	31.3
14+14			3.6	31.1 25.3
123			10.0	24.7 20.15
6'lt			10.5	24.2
TP	0.71	223.07	12.32	222.36
14+50			10.8	12.3
6'lt			10.4	12.7 04.6

B.P.S.W. Cor. of 1st & 1/2 pas

7.1

~~6.9~~

7.1

6.9

3.8

ξ Cuts

Gr. Grade Cut

14+09.5	37.2	27.9	9.3
14+14	31.1	25.3	5.8
135	24.9	19.0	5.9
132	21.6	15.0	6.6
135.8	17.9	12.8	5.1
145	15.8	07.5	8.3

ξ cut 5.8

4.0

8.1

223.07

14465 15.1 208.0 204.6

14480 13.2 09.9

6'4 12.6 10.5 04.6

14497 5.8 17.3

6'4 4.6 18.5 11.6

TP 12.63 235.69 0.01 223.06

15410 12.6 23.1

15430 2.4 33.3

6'4 3.2 32.5 26.2

TP 6.27 241.13 0.83 234.86

15445 4.6 36.5

6'4 5.3 35.8 32.4

15464 +0.2 41.3

6'4 -0.5 40.6 36.2

TP 10.00 250.76 0.37 240.76

15480 8.4 42.4

6'4 9.9 40.9 37.9

5.9

6.9

6.3

3.4

4.4

3.0

250.76

15496

5.8 245.0

6' LT

5.9 44.9 39.1

16400

5.9 44.9

5.8

8.16 242.60

Nail in power pole S.W. Cor. Brant & W. pas E. 242.61

Profile of ξ & offsets from 19470 to 24413

B.M.	4.16	246.77		242.61	
19470			4.9	41.9	
6'RT			5.6	41.2	235.4
+77			5.2	41.6	
+90			7.2	39.6	
20+00			7.4	39.4	
20+07			6.5	40.3	
6'RT			6.2	40.6	35.4
+11			6.5	40.3	33.1
TP	0.96	234.75	12.98	233.77	
20+35			9.6	25.2	
6'RT			10.1	24.7	19.5
TP	2.32	224.35	12.72	222.03	
20+50			9.4	15.0	
6'RT			9.6	14.8	206.2
TP	0.87	212.87	12.35	212.00	
+63			5.7	07.2	
TP	0.73	200.87	12.73	200.14	

Nail in power pole S.W. Cor. Upper Brant.

5.8

5.2

5.2

8.6

200.87

20467		7.7	193.2	
+69		7.7	93.2	
6'RT		7.2	93.7	188.5
21404		7.5	93.4	
6'RT		7.5	93.4	89.5
+12		7.4	93.5	
TP	0.76	188.92	12.71	188.16
+27		9.8	79.1	
TP	0.50	176.78	12.64	176.38
21450		10.6	66.2	
+57		13.5	63.3	158.0
6'RT		13.7		
+63		15.5	61.3	
90		12.5	64.3	
TP	1.38	165.78	12.38	164.40
22400		1.4	64.4	
6'RT		4.5		

For offset cuts from 21457 to 23465 page 65
 E is O.K.

165.78

22+16		2.7	163.1
6 RT		4.8	
+32		3.7	62.0
6 RT		6.3	
+49		5.8	60.0
6 RT		8.0	
+64		8.2	57.6
6 RT		10.2	
+80		10.3	55.5
6 RT		12.0	
23+00		12.7	53.1
TP	0.89	154.01	12.66 153.12
23+25		5.1	48.9
6 RT		6.5	
23+50		8.7	45.3
+65		11.0	43.0
6 RT		11.9	
TP	0.28	141.44	12.85 141.16

141.44

24+00	5.5	135.9	
24+07.26 =			
24+13.00	5.9	135.5	
8' Lt	5.3	36.1	31.2
Out offset	5.34	136.10	

4.9

Reprofile of offsets.

8' offset	12.82	148.98		136.10
TP	12.95	161.01	0.86	148.02
	7.26	168.27	0.00	161.01



21+57	3.4	64.9	158.0
22+00	6.0	62.3	58.0
+16	6.3	62.0	57.6
+22	7.3	61.0	56.8
+48	8.8	59.5	55.2
+64	10.8	57.5	53.9
+80	13.0	55.3	51.8
TP	0.75	155.97	154.47
	13.05	155.22	
23+25	7.9	48.1	44.7

6.9

4.3

4.4

4.2

3.9

3.6

3.5

3.4

155.97
154.47

23+65		13.2	142.8	137.3	5.5
TP	4.76	146.54	143.34	141.84	
		11.93	136.11	134.61	
24+07.26 =					
24+13.00		11.9	36.1	131.2	4.9

Profile of offsets

B.M	10.66	126.31		115.55	
24+24.30		3.5	22.7	118.1	4.6
+50			20.9	115.8	5.1
+90		7.9	18.3	11.3	7.0
25+06		9.1	17.1	09.6	7.5
122		10.3	15.9	08.3	7.6
+38		11.3	14.9	07.4	7.5
+54		12.4	13.8	07.0	6.8
170		13.2	13.0	06.9	6.1
26+20		12.6	13.6	07.1	6.5
+55				08.1	5.5
+60			14.5	108.0	6.5
+80		10.2	16.0	09.0	7.0
		5.1	21.1	13.4	7.7
27+00		2.1	24.1	20.0	4.1
TP	12.91	138.90	0.22	125.99	

Creeping S.K. Cox, Reynard Way & Curlew

4.6
5.1
7.0
7.5
7.6
7.5
6.8
6.1
6.5
5.5
6.5
7.0
7.7
4.1

Copied to Book 564

		138.90			
27225			5.1	133.8	128.7
TP	12.91	151.80	0.02	138.89	
27275			0.7	51.1	47.0
TP	13.02	164.74	0.68	151.12	
28400			2.4	61.7	56.5
TP	6.07	169.97	0.24	163.90	
B.M			6.55	163.42	

67

5.1

4.1

5.2

Nail in S. side of power pole, 10' S. of 28406-47. 163.40

Profile of offsets				Grade
\$ Elev.			196.0	
37+00	1.04	197.24 ⁰⁴	196.2	191.8
6.44			96.3	91.8
			183.97	
TP	0.16	184.33 ¹³	183.07	184.17
37+30			80.6	75.0
+50			72.4	68.2
			171.48 ³⁸	
TP	1.10	172.58 ³⁸	171.48	
+75			65.2	59.7
+92			61.8	57.2
38+08			59.4	55.3
+24			57.7	53.8
+40			57.2	52.7
+57			57.4	52.0
39+00			62.2	59.1
+36			67.2	65.0
+56			65.8	64.2
+72			63.1	60.4
+88			60.8	57.0
TP	4.52	164.21 ¹⁰¹	159.69 ⁴⁹	

Cut

4.5 ✓
5.6 ✓
4.2 ✓
5.5 ✓
4.6 ✓
4.1 ✓
3.9 ✓
4.5 ✓
5.4 ✓
3.1 ✓
2.2 ✓
1.6 ✓
2.7 ✓
3.8 ✓

101
164.21

40+04		5.4	158.6	154.1
+20		7.8	56.2	51.6
+40		11.6	^{52.1} 52.4	49.0
+75		13.5	50.5	47.9
41+05		13.1	50.9	46.9
+60		3.5	60.5	56.0
TP	12.97	³⁸ 176.58	0.60	⁴¹ 163.61
TP	13.01	²⁸ 189.48	0.11	²⁷ 176.47
42+00		12.0	77.3	71.2
TP	13.07	⁶⁶ 201.86	0.69	⁵⁹ 188.79
+50		6.3	95.4	90.2
TP	12.74	⁴⁹ 213.69	0.91	⁷⁵ 200.95
+70		5.8	07.7	198.2
+90		4.2	09.3	206.6
TP	12.93	⁷⁰ 225.90	0.72	⁷⁷ 212.97
TP	7.97	¹³ 232.53	1.54	¹⁶ 224.36
43+19			24.9	19.4
43+20		7.2	24.9	19.8
+40			25.3	20.3
		6.0	25.6	20.2
+55				20.7

69

4.5	30
4.6	17
3.1	6
3.4	14
2.6	
4.0	
4.5	
6.1	
5.2	
9.5	
2.7	
5.5	
5.1	
5.0	
5.4	

13
232.33

431.60	7.0	225.1	220.3
+723			220.7
780	7.2	24.9	20.0
+90			220.0
44200	8.2	23.9	19.4
B.M.	7.48	224.85	
+40	10.1	22.0	17.5
+58	10.9	21.2	16.5
+74	12.1	20.0	15.5

70

~~4.8~~

~~4.9~~

~~4.5~~

Nail in power pole S. curb Sta 44+04 Elev. 224.65

~~4.5~~

~~4.7~~

~~4.5~~

Profile of offsets

B.M.	1.99	23552	233.53
33+70		12.7	22.8 218.5
+90		12.2	23.3 19.1
34+10		10.1	25.4 20.0
+50		8.0	27.5 22.4
35+00		5.3	30.2 24.8
+25		4.4	31.1 25.6
+75		4.1	31.4 26.4
36+00		4.3	31.2 26.4
+40		4.2	31.3 26.4
+50		4.3	31.2 20.6

Top of fire plug S.E. Cor. Hawk + 11 pas

4.3
4.2
5.4
5.1
5.4
5.5
5.0
4.8
4.9
10.6

Re-profile of offsets 7450-8490 (Grade change)

B.M	4.70	283.62		278.92
7470			4.3	79.3 274.2
8400			4.7	78.9 273.4
416			5.1	78.5 271.8
+32			5.6	78.0 271.5
+60			8.1	75.5 270.2
+90			11.0	72.6 268.0

B.P.K.W. Cor. of 2nd to Ugas

5.1	Copied to Book 564	
6.5		
6.7		
6.5		
5.3		
4.6		

Profile of \square - 43+55 - 46+10

B.M.	3.97	228.62		224.65
43+55			3.3	25.3 220.7
+72 ²			3.3	25.3 220.7
+90			4.1	24.5 220.0
44+00			4.6	24.0 219.4
+40			6.5	22.1 217.5
+58			7.4	21.2 216.5
+74			8.5	20.1 215.5
+90			10.0	18.6 214.0
45+14			12.3	16.3 211.1
TP	0.72	216.47	12.87	215.75
45+46			3.3	13.2 206.4 206.5
+62			5.0	11.5 204.4 204.6
+78			6.6	09.9 202.9 203.2
+94			7.9	08.6 201.7 202.1
46+10			8.8	07.7 200.9 201.5
			8.3	208.2
TP			9.70	206.77

Nail in priv. pole S. curb Sta 44+04

4.6

4.6

4.5

4.6

4.6

4.7

4.6

4.6

5.2

6.8

6.7

7.1

6.9

7.0

6.7

6.9

6.5

6.8

6.2

ck on \square Sta 46+00 - E1 208.3

Lead + back - S.W. Cor. Union & Ugas

Profile of ϕ and offsets				Grade
TP				
(req # 73)	4.21	210.98	206.77	
46+55		6.5	04.5	200.9
6' Lt		6.3	04.7	200.9
46+80		11.9	199.1	
6' Lt		11.4	99.6	195.6
TP	0.44	198.66	12.76	198.22
47+00		2.3	96.4	
6' Lt		2.3	96.4	191.7
47+20		4.6	94.1	
6' Lt		4.5	94.2	188.2
47+60		12.0	86.7	
6' Lt		11.7	87.0	181.8
TP	0.48	186.52	12.62	186.04
47+80		3.3	83.2	
6' Lt		2.8	83.7	178.3
48+00		7.7	78.8	
6' Lt		6.9	79.6	174.5
TP	1.00	174.72	12.88	173.72

3.6

3.8

3.5

4.0

4.7

4.7

5.9

6.0

4.9

5.2

4.9

5.4

4.3

5.1

	174.72			
48+35		2.3	172.4	
6.24		1.4	73.3	168.0
48+63		12.4	62.3	156.8
48+90		12.9	61.8	156.8
+91.9		12.9	61.8	
+91.9		12.1	62.6	
TP	0.22	162.72	13.22	162.50
49+03		0.6	62.1	
49+14.3		7.4	53.3	
TP	0.53	151.12	13.13	150.59
49+30		2.2	48.9	
+46		5.9	45.2	
162		9.6	41.5	
480		12.8	38.3	
50+00		15.9	135.2	136.9

- Before benching -

	lt	£	RT
	4.4		
	5.3		
	5.5	(con pavement)	
	5.0		
	Gutter		
	Top curb		
	B.M. Nail in pole. Sid. Cor. Station & Upas. El. 162.51		
	+0.7		-0.9
	15		15
(90° to forward tangent)	+6.0		-3.4
	13		15
	+10.0	+7.6	-6.4
	13.0	8.0	4.5
	+11.7	+9.8	-4.4
	13	6.0	4.5
	+13.2	+11.3	-2.9
	13	6.5	4.5
	+14.6	+12.2	-2.5
	13	5.0	5.0
	+15.4	+13.0	-2.6
	13	5.0	4.0
			-1.9
			8.0
			15
			-1.7
			7.5
			15
			-1.0
			8.0
			15
			-0.2
			8.0
			15
			-0.4
			8.0
			15
			-0.8
			8.0
			15
			-0.2
			8.0
			15

£

	Grade		
B.M.	4.62	20.87	16.25
60+00	3.4	17.5	8.8
6' 1/2	2.1	18.8	8.8
+40	9.9	11.0	
6' 1/2	9.9	11.0	4.5
61+00	10.5	10.4	
6' 1/2	10.5	10.4	4.0
+50	11.1	9.8	
6' 1/2	11.1	9.8	4.0
62+00	11.5	9.4	
6' 1/2	11.5	9.4	4.0
+37 ^{1/2} E	11.8	9.1	4.0
+37 ^{1/2} E	12.4	8.5	4.0
62+73 ^{1/2} E	11.8	9.1	4.0

Cut

8.7

16.0

5.5

6.4

5.8

5.4

5.1 face of curb

gutter

5.1

Photo #1 E Horn Curless 9/30/40

" 2 E Horn 4+70 showing cracks 10/3/40

" 3 " " 2+80 " " " " " " " "

" 4 " " 1+70 " " " " " " " "

" 5 " " 32+90 branch 10/4/40

Sample #1 7+60

" 2 13+90

" 3 18+56

" 4 21+50

" 5 25+75

9/30/40
Vpos 5'

165.0	
159.1	
36/5.9	16.4
3.6	1.4
230	656
216	164
140	164
140	296

1.6	
2.8	
4.4	
	159.1
	2.3
	161.4

62.2
2.8
59.4
2.5
161.9

32nd & Broadway 10/8/40

"1 West

"2 Center

"3 E end

Reset

49130 - 5' offset - cut 42
R1

B.M.^s

	Elev
BP SW cor at h + Upas	289.07
" " N.W. " 4 th + Upas	284.99
" " N.W. " 2 nd + Upas	278.90
" " S.W. " 1st + Upas	257.51
N.W. " Kite + Walnut	244.58
N.W. " Kite + Brooks	255.97
S.W. " Curlew + Reynard	114.26
S.E. " Curlew + Pennsylvania	197.13
B.P. S.E. " India + Upas	83.93
" " S.E. Kettner + Upas	40.56
Mon. 10' W. of E.P. line of California	
on E of Upas	17.23

Upas st Pipeline S.E. 814
 Chest - C Elliot W.O. 818
 Bonita Pipe L W.O. 810

304
 1.7
 1.64
 67
 0.97

6.9
 13.7
 1.2
 12.5

14.5
 4.9
 0.96

3.65
 2.28
 48.20
 3.95
 11.36
 1.7
 6.8

238.00
 1.00
 236.40 FL

236.6
 234.3
 1.3
 5.2

E. edge part of Stake
 32125
 75
 32175

5.7
 8.7

197.5
 4.7
 192.8

197.35
 4.7
 192.65

238.0
 235.7
 2.3

46 / 2.60
 23.0
 3.00
 27.6
 2.40
 29.0

240.7
 4.6
 236.1

234.3
 234.7

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1 1/2

For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.4	0
1	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.9	1
2	11.0	11.2	11.3	11.5	11.6	11.8	11.9	12.1	12.2	12.4	2
3	12.5	12.7	12.8	13.0	13.1	13.3	13.4	13.6	13.7	13.9	3
4	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.1	15.2	15.4	4
5	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.6	16.7	16.9	5
6	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.1	18.2	18.4	6
7	18.5	18.7	18.8	19.0	19.1	19.3	19.4	19.6	19.7	19.9	7
8	20.0	20.2	20.3	20.5	20.6	20.8	20.9	21.1	21.2	21.4	8
9	21.5	21.7	21.8	22.0	22.1	22.3	22.4	22.6	22.7	22.9	9
10	23.0	23.2	23.3	23.5	23.6	23.8	23.9	24.1	24.2	24.4	10
11	24.5	24.7	24.8	25.0	25.1	25.3	25.4	25.6	25.7	25.9	11
12	26.0	26.2	26.3	26.5	26.6	26.8	26.9	27.1	27.2	27.4	12
13	27.5	27.7	27.8	28.0	28.1	28.3	28.4	28.6	28.7	28.9	13
14	29.0	29.2	29.3	29.5	29.6	29.8	29.9	30.1	30.2	30.4	14
15	30.5	30.7	30.8	31.0	31.1	31.3	31.4	31.6	31.7	31.9	15
16	32.0	32.2	32.3	32.5	32.6	32.8	32.9	33.1	33.2	33.4	16
17	33.5	33.7	33.8	34.0	34.1	34.3	34.4	34.6	34.7	34.9	17
18	35.0	35.2	35.3	35.5	35.6	35.8	35.9	36.1	36.2	36.4	18
19	36.5	36.7	36.8	37.0	37.1	37.3	37.4	37.6	37.7	37.9	19
20	38.0	38.2	38.3	38.5	38.6	38.8	38.9	39.1	39.2	39.4	20
21	39.5	39.7	39.8	40.0	40.1	40.3	40.4	40.6	40.7	40.9	21
22	41.0	41.2	41.3	41.5	41.6	41.8	41.9	42.1	42.2	42.4	22
23	42.5	42.7	42.8	43.0	43.1	43.3	43.4	43.6	43.7	43.9	23
24	44.0	44.2	44.3	44.5	44.6	44.8	44.9	45.1	45.2	45.4	24
25	45.5	45.7	45.8	46.0	46.1	46.3	46.4	46.6	46.7	46.9	25
26	47.0	47.2	47.3	47.5	47.6	47.8	47.9	48.1	48.2	48.4	26
27	48.5	48.7	48.8	49.0	49.1	49.3	49.4	49.6	49.7	49.9	27
28	50.0	50.2	50.3	50.5	50.6	50.8	50.9	51.1	51.2	51.4	28
29	51.5	51.7	51.8	52.0	52.1	52.3	52.4	52.6	52.7	52.9	29
30	53.0	53.2	53.3	53.5	53.6	53.8	53.9	54.1	54.2	54.4	30
31	54.5	54.7	54.8	55.0	55.1	55.3	55.4	55.6	55.7	55.9	31
32	56.0	56.2	56.3	56.5	56.6	56.8	56.9	57.1	57.2	57.4	32
33	57.5	57.7	57.8	58.0	58.1	58.3	58.4	58.6	58.7	58.9	33
34	59.0	59.2	59.3	59.5	59.6	59.8	59.9	60.1	60.2	60.4	34
35	60.5	60.7	60.8	61.0	61.1	61.3	61.4	61.6	61.7	61.9	35
36	62.0	62.2	62.3	62.5	62.6	62.8	62.9	63.1	63.2	63.4	36
37	63.5	63.7	63.8	64.0	64.1	64.3	64.4	64.6	64.7	64.9	37
38	65.0	65.2	65.3	65.5	65.6	65.8	65.9	66.1	66.2	66.4	38
39	66.5	66.7	66.8	67.0	67.1	67.3	67.4	67.6	67.7	67.9	39
40	68.0	68.2	68.3	68.5	68.6	68.8	68.9	69.1	69.2	69.4	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 41.9. For same slopes but other widths of roadbed correct above figures by one-half difference in width of roadbed; thus in example above for 20 ft. roadbed distance will be $41.9 + (20 - 16) \div 2$ or 2 ft. added to 41.9 = 43.9. For slopes of 1 on 1 see inside of front cover.