

W

684

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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	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9		1
2	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9		2
3	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9		3
4	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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684

77+55 - 3/4" WATER - 1.4 deep
77+56 1' 90s - 1.2 deep

Please Return to
City of San Diego Water Dept.
Room 268 Civic Center
Telephone Main 5161

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.

THORN ST. PIPELINE CONSTRUCTION

Offset profile, grades & cuts - 60+89¹⁵ - 12475 1-13

& and offset profile, grades & cuts 50+70 - 60+75 14-20

OFFSET PROFILE, GRADES & CUTS 49+03 - 50+49 21-23

" " " " 9+91⁵ - 49+03 24-35

GRADES - VALVE CHAMBER - HIGHLAND & LANDIS 36

" " " 30th & THORN 37

BONITA CONNECTION

PROFILE OF OFFSETS - BONITA CONNECTION 39-57

GRADES - VALVE CHAMBER - 0114 58

GRADES - S.O. CHAMBER - 0136 59

GRADES - G.V. " 924 60 ✓

Thorn St - Measurement of Concrete

Base in Place for Repaving Thorn St
10+72 - 38+70 63-73 ✓

Measurement of holes cut in pavement
on Thorn St. in order to shut off water service 74 ✓

Asphalt Base in Place - Highland Ave. to
108+57 - 109 75

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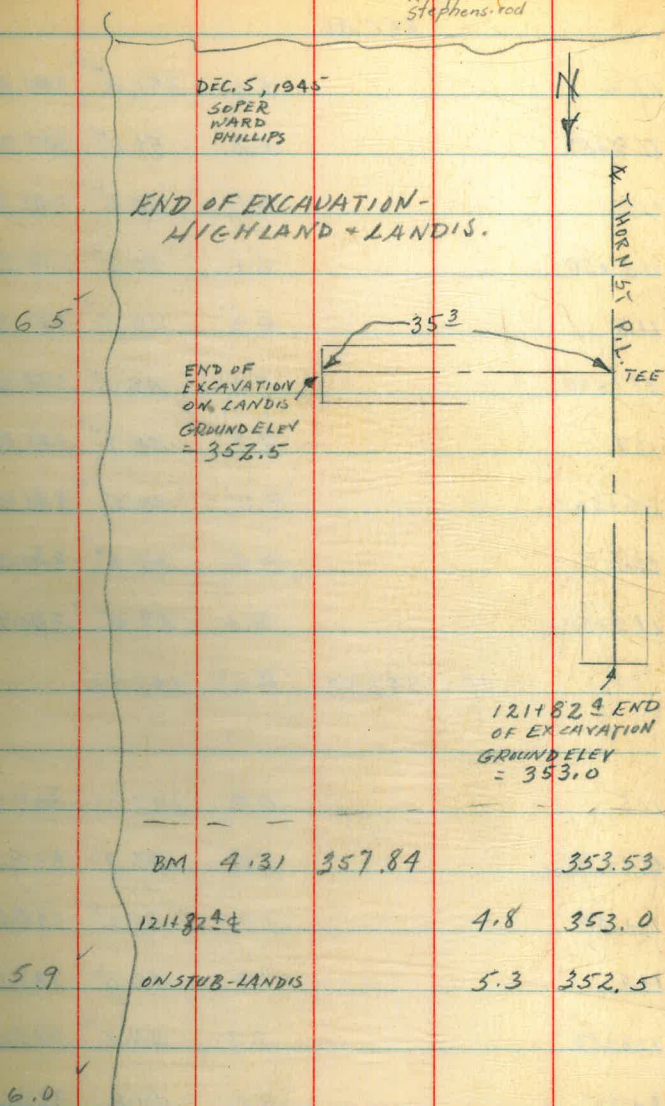
to be
of ro
exam
30.6

Profile of offsets - grades and cuts - Thorn St. P.L.

B.M	2.92	356.45	353.53
1214755			
8' off to East	3.5	352.9	346.40
8' off to east			
121465			
2' offset			
N.E. Cor. of Valve chamber	3.35	353.10	
2' offset			
N.W. Cor. V.Ch.	3.12	353.33	
2' offset			
S.W. Cor. V.Ch.	3.17	353.28	
2' offset			
S.E. Cor. V.Ch.	3.50	352.95	
8' off to east			
121400 X	4.1	352.3	346.40
120450	1.5	351.9	345.90

May 25 1945

Super notes
King X
Stephens rod



356.45

120 5.0 351.4 345.40

119+50 5.4 51.0 344.90

119 5.8 50.6 344.40

118+50 6.1 50.3 343.90

118 6.9 49.5 343.40

117+50 7.3 49.1 342.90

117 7.7 48.7 342.40

116+50 8.2 48.2 341.90

116 8.6 47.8 341.40

115+50 x 9.0 47.4 340.90

TP 0.40 347.92 8.93 347.52

115 0.9 347.0 339.36

114+75 x 1.2 46.7 338.60

+ 50 1.3 46.6 338.60

114 1.9 46.0 338.60

113+50 2.7 45.2 338.60

113+25 x 3.1 44.8 338.60

6.0 ✓

6.1 ✓

6.2 ✓

6.4 ✓

6.1 ✓

6.2 ✓

6.3 ✓

6.3 ✓

6.4 ✓

6.5 ✓

7.6 ✓

8.1 ✓

8.0 ✓

7.4 ✓

6.6 ✓

6.2 ✓

347.92

113 3.6 344.3^v 338.18112+50 4.4 43.5^v 337.36112 5.1 42.8^v 336.53111+50 6.1 41.8^v 335.71111 6.8 41.1^v 334.89110+50 7.7 40.2^v 334.07110 8.4 39.5^v 333.24109+50 9.3 38.6^v 332.42109 x 10.0 37.9^v 331.60108+50 11.0 36.9^v 330.578' off to east
108+07.22ax11.6 36.3^v 329.70

ck on B.M.

11.18 336.74 336.72

Rec. elev

6.1 ✓

6.1 ✓

6.3 ✓

6.1 ✓

6.2 ✓

6.1 ✓

6.3 ✓

6.2 ✓

6.3 ✓

6.3 ✓

6.6 ✓

June 4 1945
 Super
 King
 Stephens

4

B.M.	0.71	322.22	321.51
82+00	x	0.9	321.3 313.80
+50		1.4	20.8 313.80
83	x	1.6	20.6 313.80
+25	x	1.4	20.8 313.40
+50		2.3	19.9 312.55
+90	x	3.9	18.3 ^{310.8} 311.20
84+25		5.2	17.0 308.26
+60	x	7.4	14.8 305.30
85		9.1	13.1 305.30
+25	x	9.9	12.3 305.30
+75		11.2	11.0 304.05
86+25	x	12.6	309.6 ^{303.0} 302.80
II	12.12	321.74	12.60 309.62
86+50		11.9	309.8 302.80
87	x	11.5	10.2 ^{303.2} 302.80
+50		10.0	11.7 304.93

B.P.N.W. Cor. 41st & Myrtle

7.5	
7.0	
6.8	
7.4	
7.3	
7.5	
7.1	These grades changed to conform to Contractor's work sheet
8.7	
9.5	
7.8	
7.0	
6.9	
6.6	
6.8	
7.0	
7.0	
7.4	
6.8	

321.74

87+75 x	9.2	312.5	305.7 306.00	6.8 6.5
88+00 x	8.2	13.5	306.2 306.40	7.3 7.1
+50 x	6.1	15.6	306.8 306.40	8.8 9.2
89 x	3.8	17.9	309.8 310.60	8.1 7.3
+25 x	3.4	18.3	311.2 311.80	7.1 6.5
+75 x	1.1	20.6	313.50	7.1
90 x	0.9	20.8	314.00	6.8
+50	0.5	21.2	314.13	7.1
TP.	8.98	330.42	0.30 321.44	
90+75 x	8.4	322.0	314.20	7.8
91	8.5	21.9	314.60	7.3
+50 x	7.8	22.6	315.40	7.2
92	7.0	23.4	315.53	7.9
+25 x	7.1	23.3	315.60	7.7
+75 x	5.9	24.5	317.30	7.2
93	5.6	24.8	317.70	7.1
+50	4.8	25.6	318.50	7.1
+75 x	4.4	26.0	318.90	7.1

	330.42			Rec.
Cl. on B.M.		4.34	326.08	326.12
94+00		4.5	325.9	318.90
+50		4.4	26.0	318.90
+75 x		4.6	25.8	318.90
95		4.8	25.6	318.70
+25 x		5.0	25.4	318.50
+50		5.3	25.1	317.77
96+00 x		5.8	24.6	316.30
+50		7.0	23.4	315.50
+75 x		7.9	22.5	315.10
97		8.7	21.7	314.27
TP	8.68	329.72	9.38	321.04
97+50 x		10.2	319.5	312.60
97+75 x		10.7	19.0	312.20
98+25 x		10.8	18.9	312.5
+50		9.2	20.5	312.70
99 x		7.3	22.4	312.8
+50		5.5	24.2	313.1
				313.10
				313.5
				314.6
				314.90
				313.7
				314.50
				314.90

B.P.N.W. Cor Myrtle + Van Dyke

7.0

7.1

6.9

6.9

6.9

7.3

8.3

7.9

7.4

7.4

6.9

6.8

6.4

6.7

7.4

7.4

7.5

9.3

June 9 - Grades changed to conform to layout sheets

June 12 - Grade lowered to clear sewer line

June 6 1945

Super
King
Stephens

7

	329.72			
99+70 x		4.7	325.0	314.5 315.5 314.90
100		2.4	27.3	316.6 317.6 317.60
100+50 x		0.1	29.6	320.8 321.8 322.10
TP		0.13	329.59	
	6.95		336.54	
100+75 x		5.8	330.7	322.7 323.3 323.40
101 x		4.7	31.8	323.9 324.30
+25 x		4.5	32.0	324.5 324.80
+50		4.2	32.3	324.80
102		3.7	32.8	324.80
+50		3.9	32.6	324.80
103 x		3.7	32.8	324.80
+50		3.5	33.0	325.60
104 x		3.2	33.3	326.40
+50		3.3	33.2	326.40
105 x		3.0	33.5	326.40
TP	6.31		339.61	3.24 333.30
105+50		5.4	334.2	327.00

10.5
9.5
10.1
10.7
9.7
9.7
8.8
7.8
7.5

OHX - 100+50

8.0
7.4
7.3
7.9
7.5
7.5
7.3
7.5
8.0
7.8
8.0
7.4
6.9
6.8
7.1
7.2

339.61

106	x	4.9	334.7	327.60
425	x	5.0	34.6	328.70
450		4.7	34.9	328.70
107	x	4.3	35.3	328.70
450		3.4	36.2	329.17
108		3.0	36.6	329.63
Chan B.M.		2.92	336.69	Rec. 326.72

8

B.P.N.W. Car. Highland - Myrtle

B.M.	3.86	325.37		321.51
		320.50		319.02
TP	1.48	330.50	6.35	329.02
		321.30		308.73
set B.M.	12.57	331.30	11.77	318.73
72+00			8.1	313.2 302.98
450 x			7.3	314.0 304.10
73			6.6	314.7 304.10
+30 x			7.4	313.9 304.8 304.10
				305.7
+50			7.1	314.2 305.30
				308.1
74			5.5	315.8 308.30
				309.3
+25 x			4.7	316.6 309.80
				309.9
+50 x			4.0	317.3 310.20
75			3.1	318.2 310.20
+50			2.9	318.4 310.20
76			2.6	318.7 310.20
+50 x			2.31	319.0 310.20
		325.10		319.29
TP	5.81	335.10	2.01	329.29
				310.20
76+80			5.9	319.2 309.90

June 13 1945
Soper
King
Stephens

9

B.P.N.W. Cor 41st + Myrtle

Nail in power pole - 39th + Myrtle

10.2 12' OFFSET

9.9 11' OFFSET

10.6

9.1

9.3 Changed to conform to layout sheets

8.5

7.7

7.3

7.4

8.0

8.2

8.5

8.8

9.0

325.10
335.10

77+10 x	6.4	318.7	310.20 309.90
77+17		319.3	310.20
77+25	5.6	319.3	310.57
77+50 x	4.6	319.5	311.70
78	5.6	319.5	311.70
150	4.8	320.3	311.70
79	4.6	320.5	311.70
150	4.4	320.7	311.70
80	4.2	320.9	311.70
150	4.1	321.0	311.70
185 x	4.0	321.1	311.70
81	3.9	321.2	311.97
150	3.8	321.3	312.88
ck on B.N	3.62	321.48	Rec 331.48 321.51

10

8.5
9.1
8.7
7.8
7.8
8.6
8.8
9.0
9.2
9.3
9.4
9.2
8.4
B.P.N.W. Cor. 11 st & Myrtle

B.M.	3.58	312.31		308.73
71+50			1.0	311.3 301.87
71+00			2.8	309.5 300.76
70+75 *			4.2	308.1 300.20
70+50 *			6.6	305.7 299.10
70+25 *			9.1	303.2 296.70
TP	0.26	299.53	13.04	299.27
69+95 *			1.7	297.8 291.80
TP	0.17	286.87	12.83	286.70
69+50 *			1.1	285.8 279.9 280.40
TP	0.76	275.46	12.17	274.70
69+10 *			3.6	271.9 266.0 266.40
TP	2.63	265.87	12.22	263.24
68+90 *			5.6	260.3 257.40
TP	0.61	254.37	12.11	253.76

June 15 1945 11
Soper
King
Stephens

Nail in power pole 39th + Myrtle

9.4	12' offsets
8.7	"
7.9	
6.6	
6.5	
6.0	
5.9	
5.9	
2.9	

254.37

68+70 x 5.5 248.9 246.30

TP 2.64 243.75 12.66 241.71

68+50 x 3.3 240.4 237.7
237.4068+34⁰⁰
67+97¹² x 6.7 237.0 231.00

TP 12.15 231.60

7.28 238.88

67+75 2.5 236.4 229.65

67+50 3.2 235.7 228.17

67+25 3.8 235.1 226.68

67+00 x 5.8 233.1 225.20

66+75 5.6 233.3 225.20

+50 5.7 233.2 225.20

66+26.58 BC 6.1 232.8 225.20

2.6

2.7

6.0

on manhole

June 18, 1945
Super
King
Stephens

6.8

7.5

8.4

7.9

8.1

8.0

7.6

238.88

G6+00 x	7.5	231.4	225.20
G5+50 x	8.6	230.3	223.9 223.60
G5+00	9.8	229.1	222.57
G4+50	11.8	227.1	221.54
G4+00	10.8	228.1	220.51
G3+75 x	9.7	229.2	220.00
G3+50	7.7	231.2	219.10

TP	0.63	227.77	11.74	227.14
----	------	--------	-------	--------

G3+00	2.9	224.9	217.32
G2+50	5.4	222.4	215.54
G2+00	7.1	220.7	213.75
G1+50	8.4	219.4	211.97
G1+00	11.7	216.1	210.18
G0+89 ¹⁵ F.C.	12.2	215.6	209.80

TP	1.76	224.01	5.52	222.25
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13

6.2

6.4

6.7

changed to conform to layout sheets

6.5

5.6

7.6

7.2

12.1

7.6

6.9

7.0

7.4

5.9

5.8

on manhole

± and offset profile after benching, Thorn St Pt

224.01

60+75± 8.5 215.5

" 12' off 8.5 215.5 209.29 6.2

60+50± 9.1 214.9

" 12' off 8.3 215.7 208.40 7.3

60+25± 9.8 214.2

" 12' off 8.9 215.1 208.00 7.1

60+00± 10.4 213.6

" 12' off 8.8 215.2 208.00 7.2

59+75± 9.8 214.2

" 12' off 9.0 215.0 208.00 7.0

59+50± 8.3 215.7

" 12' off 8.0 216.0 208.8
208.00 7.2

Grades changed to conform to layout sheet

224.01

59+55E		6.1	217.9		
" 12' off		4.7	219.3	210.8 210.00	8.5
59+00 E		3.1	220.9		
" 6' off		1.9	222.1	213.1 213.00	9.0
IT	7.72	230.45	1.28	222.73	
58+75E		7.0	223.4		
" 6' off		6.2	224.2	215.6 216.00	8.6
58+50E		6.3	224.1		
" 6' off		4.9	225.5	216.3 216.00	9.2 9.5 Raised to clear sewer
58+25E		5.9	224.5		
" 6' off		5.4	225.0	216.7 216.00	8.3 9.0
58+00E		5.7	224.7		
" 6' off		5.7	224.7	216.3 216.00	7.8 8.7

230.45

57+854

5.3

" 6' x

5.3 225.1

216.9

216.00

8.2

9.1

57+652 B.C.4

3.4 227.0

" 6' 4"

3.4 227.0

217.8

217.70

9.2

9.3

P

1.81 228.64

Rim of sewer M.H. Rec. 228.6

12.68 241.32

June 27 1945
Super
King
Stephens

57+504

12.7 228.6

" 6' 4" x

12.8 228.5

219.00

9.5

57+004

8.0 233.3

" 6' 4"

7.8 233.5

225.81

7.7

241.32

56+67¢ 5.2 236.1

" 6¢/x 5.2 236.1 230.30 5.8

56+50¢ 4.2 237.1

" 6¢/x 4.2 237.1

56+38¢ 3.9 237.4 231.62

" 6¢/x 4.0 237.3 231.62 5.7

56+10¢ 3.7 237.6

" 6¢/x 3.6 237.7 232.00 5.7

~~56+100¢ 3.6~~

~~" 6¢/x 3.7~~

55+81¢ 3.8 237.5

" 6¢/x 3.8 237.5 232.00 5.5

241.32

557504 4.4 236.9

" 6.4 4.0 237.3 231.38 5.9

557004 4.4 236.9 6.5

" 6.4 4.2 237.1 230.40 6.7

541504 5.5 235.8 6.4

" 6.4 3.4 237.9 229.41 8.5

54103.754 8.6 232.7 4.2

" 6.4x 7.6 233.7 228.50 5.2

537754 12.0 229.3

" 6.4 11.8 229.5 217.00 12.5

0.73 230.19 11.86 229.46

537554 3.5 226.7

" 6.4x 3.4 226.8 209.00 17.8

230.19

53+25¢ 8.1 222.1

" 6 off. 8.1 222.1 209.00 13.1

53+00¢ 12.1 218.1

" 6 off 12.1 218.1 209.00 9.1

T 2.78 220.90 12.07 218.12

52+50¢ 7.7 213.2 4.2

" 6 off 7.1 213.8 209.00 4.8

52+00¢ 7.1 213.8 4.3

" 6 off 6.9 214.0 209.00 5.0

51+50¢ 5.9 215.0 6.0

" 6 off 6.3 214.6 209.00 5.6

220.90

51+12³ 2.6 218.3

" 6' off 1.5 219.4 210.42 9.0

TP 6.29 226.60 0.59 220.31

50+95²⁵ 5.4 221.2

" 6' off to back tangent 6.3 220.3 212.6 7.7

50+93⁵ 5.1 221.5

" 10' off x 5.7 220.9 212.81 8.1

50+70-10' off x 2.7 223.9 217.80 6.1

TP 10.46 216.14 210.44

On sewer M.H.

Offset grades - Thorn St PL.

B.M	7.50	311.14 301.14 341.14	303.64
-----	------	----------------------------	--------

T.P.	2.35	311.51 341.51	1.98 309.6 339.16
------	------	------------------	-------------------------

49+05			3.1	308.4
-------	--	--	-----	-------

16' off South			3.0	308.5	300.00
---------------	--	--	-----	-------	--------

8' off North			3.0	308.5	300.00
--------------	--	--	-----	-------	--------

49+10			3.2	308.3
-------	--	--	-----	-------

49+20			8.9	302.6
-------	--	--	-----	-------

18' off			11.8	299.7	296.70
---------	--	--	------	-------	--------

T.P.	0.17	298.95 328.95	12.73	298.78 328.78
------	------	------------------	-------	------------------

49+40			6.9	292.1
-------	--	--	-----	-------

10' off			8.5	290.4	284.70
---------	--	--	-----	-------	--------

July 3-15
Soper
King
Stephens

21

B.P.N.E. Cor. Thorn & Nile

8.5 PAGE 35

8.5

3.0

5.7

T.P.	0.88	287.07 ⁺ 317.07	12.76	286.19 ⁺ 316.19
------	------	--	-------	--

49456	Bench		6.8	280.2 ⁺
-------	-------	--	-----	--------------------

T.P.	0.05	274.79 ⁺ 304.79	12.33	274.79 ⁺ 304.79
------	------	--	-------	--

49490	♀		6.3	268.5 ⁺
	10'		7.8	267.0 ⁺ 260.09

T.P.	1.61	263.55 ⁺ 293.55	12.85	261.99 ⁺ 291.94
------	------	--	-------	--

50404	♀ Bench		7.8	255.8 ⁺
-------	---------	--	-----	--------------------

T.P.	1.17	252.45 ⁺ 282.45	12.27	251.28 ⁺ 281.28
------	------	--	-------	--

T.P.	0.48	292.49 ⁺ 272.44	10.49	291.96 ⁺ 271.96
------	------	--	-------	--

50444	♀		0.5	291.9 ⁺
-------	---	--	-----	--------------------

6.9

242.44
~~272.17~~

~~50.44~~ 10'

4.9

237.5

233.50

230.32

T.P.

0.18

~~260.32~~

12.30

260.14

230.14

T.P.

2.91

220.38

12.35

217.97

B.M.

4.26

216.12

216.14

Top M.H.

23

4.0

CONTINUED ON PAGE 20

Profile of offset points - 8' south of E. Thorn St. PL.

B.M.	7.64	326.62	318.98
		6.70	319.92
9+91 ^E		6.6	320.0 314.2+
10+00		6.9	319.7 314.13
10+03			319.7 314.10
+50 x		6.0	320.6 313.70
11+00 x		5.8	320.8 313.70
+40 x		5.5	321.1 312.90
+50		5.5	321.1 312.90
12+00		5.1	321.5 312.90
+50		4.9	321.7 312.90
13		5.0	321.6 312.90
+50 x		5.7	320.9 312.90
+75 x		7.0	319.6 312.3 312.50
14+00		8.4	318.2 311.3

July 14, 1945

24

Super
King
Stephens

B.P.N.W. Cor 31st & Thorn St.

B.P.S.W. Cor 30th & Thorn St.

5.8 ~~BEGINNING OF WORK~~

5.6

5.6

6.9

7.1

8.2

8.2

8.6

8.8

8.7

8.0

7.3

changed to conform to work sheets.

6.9

326.62

14+45 x 10.8 315.8 ^{309.3} 309.14

+75 12.0 314.6 309.1

15+00 x 11.0 315.6 309.10

+25 x 10.3 316.3 309.40

+50 9.6 317.0 310.07

16+00 x 8.2 318.4 311.40

B.M 7.64 318.98

5.01 323.99

16+50 4.7 319.3 311.40

17+00 3.8 320.2 311.40

+50 3.0 321.0 311.40

18 2.2 321.8 311.40

+50 3.0 321.0 311.40

25

6.5

5.5

6.5

6.9

6.9

7.0

B.P.N.W. Cor 31st + Thorn

7.9

8.8

9.6

10.4

9.6

323.99

19 4.6 319.4 311.40 8.0

+25 x 5.4 318.6 311.40 7.2

+75 6.0 318.0 310.99 7.0

20+10 x 6.6 317.4 310.70 6.7

+50 8.2 315.8 308.94 6.9

21+00 10.4 313.6 306.73 6.9

+50 12.6 311.4 304.52 6.9

T 0.76 312.39 12.36 311.63

22+00 3.1 309.3 302.31 7.0

+38 v 4.8 307.6 300.63 7.0

+53⁵ x 5.5 306.9 298.59 8.3+69¹ x 6.1 306.3 295.83 10.5

312.39

22 + 85 ¹	6.6	305.8	294.44	11.4
----------------------	-----	-------	--------	------

23 + 01 ¹	7.1	305.3	294.40	10.9
----------------------	-----	-------	--------	------

150	8.4	304.0	294.40	9.6
-----	-----	-------	--------	-----

+ 81 ¹	9.1	303.3	294.40	8.9
-------------------	-----	-------	--------	-----

+ 97 ¹	9.5	302.9	294.27	8.6
-------------------	-----	-------	--------	-----

24 + 13 ¹	9.4	303.0	293.79	9.2
----------------------	-----	-------	--------	-----

24 + 45 ¹	8.9	303.5	293.40	10.1
----------------------	-----	-------	--------	------

+ 61 ¹	8.7	303.7	294.37	9.3
-------------------	-----	-------	--------	-----

R	8.34	311.50	9.23	303.16
---	------	--------	------	--------

311.50

24177 ¹ x	7.6	303.9	295.34	8.6
+93 ² x	7.4	304.1	296.31	7.8
25100 x	7.3	304.2	296.70	7.5
+50	5.9	305.6	298.20	7.4
+90 x	5.1	306.4	299.40	7.0
26115 x	4.8	306.7	299.40	7.3
+50	3.6	307.9	300.57	7.3
+75 x	2.5	309.0	301.40	7.6
27100	1.4	310.1	301.40	8.7
TP	9.91	321.08	0.33	311.17
27150 x	8.9	312.2	301.40	10.8
28 x	7.6	313.5	305.70	7.8
+25 x	7.0	314.1	307.00	7.1
+75 x	6.0	315.1	308.00	7.1

	321.08				
29+10 _x		5.8	315.3	308.00	7.3
+50		4.7	316.4	309.33	7.1
30+00 _x		3.5	317.6	311.00	6.6
+45 _x		2.5	318.6	^{313.0} 313.30	5.6
31		1.2	319.9	313.30	6.6
TP	4.88	324.40	1.56	319.52	
31150		4.0	320.4	313.30	7.1
32		4.5	319.9	313.30	6.6
+25 _x		4.5	319.9	313.30	6.6
+50		4.7	319.7	312.93	6.8
33 _x		5.0	319.4	312.20	7.2
33+11 ⁵³ B.C.		5.1	319.3	311.68	7.6
+40 _x		5.3	319.1	310.40	8.7
+65		5.4	319.0	310.40	8.6
33+95 ⁸⁸ F.C.		5.7	318.7	310.40	8.3

329.40

34+29⁹⁰ B.C. 5.9 318.5 310.40 8.1

+60 6.2 318.2 310.40 7.8

+90 x 6.8 317.6 310.40 7.2

35+14²⁶ B.C. 7.4 317.0 310.0 7.0

Π 6.41 317.99 318.01 Rec. B.P.N.W. Cox, Thorn + Gregory

B.M. 0.91 318.92 318.01

35+25 x 2.3 316.6 309.6 309.80 7.0

35+50 3.9 315.0 307.85 7.2

35+97⁶⁷ B.C. x 7.2 311.7 304.50 7.2

36+25 9.2 309.7 301.66 8.0

+50 11.0 307.9 299.06 8.8

318.92

36+65 x 12.1 306.8 297.50 9.3

IP 0.48 307.07 12.33 306.59

36+75 1.2 305.9 297.28 8.6

36+97³⁶ Back36+99³¹ Ahd 2.8 304.3 296.80 7.5

37+25 x 302.9 295.40 7.5

37+50 6.5 300.6 293.00 7.6

37+67⁴⁰ B.C. 8.1 299.0 291.33 7.7

+75 8.8 298.3 290.60 7.7

38+06 11.8 295.3 288.20 7.1

IP 5.19 299.33 12.93 294.14

38+25 x 7.0 292.3 285.80 6.5

+50 x 8.4 290.9 284.40 6.5

299.33

38+76 ²⁴ BC	8.7	290.6	284.40	C.2
39 *	8.5	290.8	284.40	C.4
+25	7.6	291.7	285.30	C.4
+50	6.5	292.8	286.21	C.6
+75	5.6	293.7	287.11	C.6
39+80 ³⁸ Bcd 39+79 ¹⁸ Abd EC.	5.4	293.9	287.30	C.6
40+15 *	4.2	295.1	288.60	C.5
40+65 *	2.4	296.9	288.60	8.3
TP 10.31 307.08	2.56	296.77		
41+00 *	8.9	298.2	291.50	C.7
+50 *	7.2	299.9	293.80	C.1

307.08

42	5.5	301.6	295.33
+25 x	4.7	302.4	296.10
B.M.	3.38	303.70	
+50.	4.4	302.7	296.43
43+00 x	3.8	303.3	297.10
43+50	3.0	304.1	297.10
44+00	2.2	304.9	297.10
+50 x	1.4	305.7	297.10
+85 x	0.7	306.4	^{299.8} 300.30
TP	7.15	313.43	0.84 306.24
45	6.8	306.6	^{300.5} 300.54
+50	6.1	307.3	301.37
46 x	5.2	308.2	302.20

33

6.3
6.3
B.P.N.E. Cor. Thern + Nile Rec. 303.64
6.3
6.2
7.0
7.8
8.6
6.6
6.1
5.9
6.0

July 20, 1945
Soper
King
Stephens

35

B.M. 9.94 313.58 303.64

47150 4.4 309.2 302.80

+66² 4.2 309.4 302.80

+8199 4.2 309.4 301.46

+8748 4.1 309.5 301.42

487156 4.1 309.5 300.35

+45² 4.2 309.4 300.00

+74 4.6 309.0 300.00

49403 5.0 308.6 300.00

CONTINUED ON PAGE 21

B.P.N.E. Cer Thorn + Nile

6.4

6.6

7.9

ADAPTER - CHANGE IN SIZE OF PIPE

8.1

9.2

9.4

9.0

8.6

Grades for Valve chamber - Highland + Landis Thon St Pl

B.M. 3.66 357.19 353.53

2' off nail
S.W. Cor. 3.54 353.25 345.00

2' off
N.W. Cor. 3.87 353.32 345.00

2' off
N.E. Cor. 4.09 353.11 345.00

2' off
S.E. Cor. 4.30 352.89 345.00

Floor Grade STAKED LEVEL - PITCH TO SUMP
TO BE TAKEN UP IN FIELD

GRADE -
TOP of CONC.
FLOOR

B.P. N.W. Cor. Highland + Landis

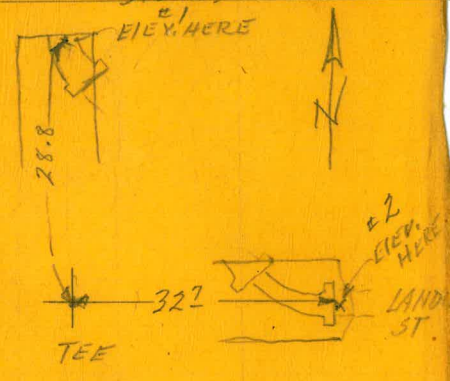
346.40 - Grade - bottom of pipe
2.00
c 8.25 348.40 Grade - 4 pipe
3.00

c 8.32 345.00 - Grade - Top of conc. floor
in chamber.

c 8.11 357.19
3.95
353.24
4.50

c 7.89

ELEV'S OF 30" C.I.P. AT HIGHLAND AND LANDIS			
B.M	3.92	357.45	353.53 B.P.N. W. COR HIGHL. + LANDIS
#1 21+74.3		6.23	351.22 TOP OF 30" C.I.P. 13' EAST OF BELL
NOTE: IT LOOKS AS THO THIS FITTING IS ON A DOWN GRADE TO NORTH. AT #2 THE GRADE LOOKS TO BE UP, TO THE NORTH WEST.			
#2		6.71	350.74 TOP OF 30" C.I.P. EAST OF BELL OF BELL + SPIG BEND. BELL TO EAST
TOP OF NEW 30" LANDIS ST		8.15	349.30
TOP OF NEW 30" HIGHLAND AVE		8.16	349.29



#2
ELEV. HERE
LANDIS ST

GRADES - VALVE CHAMBER - 30th + THORN AND FOR

JACKING UNDER TRACKS

B.M. 5.24 325.16 319.92

1' off.
9191E 5.1 320.1 320.0 Rec-

2' off.
N.W. COR 5.06 320.10 311.70

2' off.
S.W. COR 5.14 320.02 311.70

GUTTER - NORTH LINE
45° EAST OF WEST
LINE OF CHAMBER 5.4 319.8

GUTTER - SOUTH LINE
45° EAST OF WEST
LINE OF CHAMBER 5.5 319.7

2' off.
N.E. COR 5.36 319.80 312.00

2' off.
S.E. COR 5.42 319.74 312.00

CUTS FOR JACKING PIPE UNDER TRACKS

± 9+75 5.07 320.09 312.96

± 9+50 5.11 320.05 312.96

SEPT. 29, 1945

SOPER
WARD
PHILLIPS

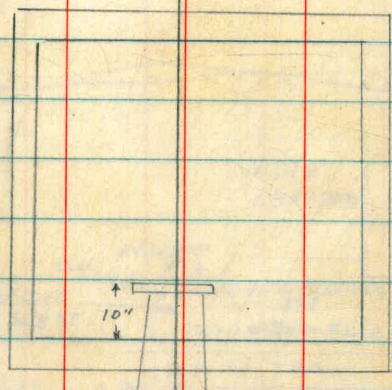
37

Thorn St Pl.

B.P. & W. COR 30th + THORN

8.40

Z →



10+04.50

7.80

STAKED TO GIVE 10" CLEARANCE FROM END

7.74 OF REDUCER SECTION, IN PLACE

7.13

7.09

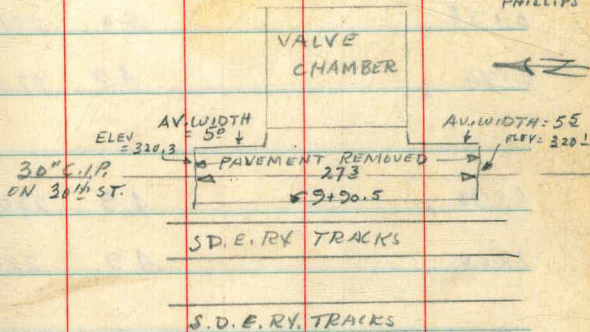
OCT 23, 1945 38

B.M.	5.01	324.93	319.92
Ch on 2175	4.84	320.09	320.09 Rec
	12.04	312.89	
	12.02	312.91	

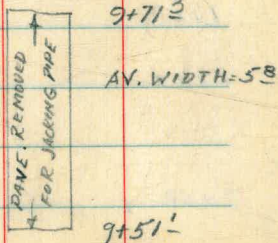
B.P.S. W/OP 3116 L THORN

GRADE - BOTTOM OF PIPE FOR JACKING - 312.96
 3.79
 312.96 TOP OF PIPE - 316.75
 03
 312.93 - TOP OF TIE FOR JACKING - 1/2" BELOW GRADE

DEC. 6, 1945
 SUPER
 WARD
 PHILLIPS



B.M.	5.43	325.35	319.92
ON TAPE, NORTH END OF DITCH	5.1	320.3	
" " SOUTH " " "	5.3	320.1	



Aug 13, 1945

39

Super
King
Phillips

PROFILE OF G' OFFSETS (left) BONITA CONN. P.L.

B.M. 1.52 225.28 223.76

Top of F. Hyd. S.F. Cor. 65th + Imperial Ave

4.02 221.26

B.P. S.F. Cor. 63rd + Imp. Rec. 221.27

Cut

6' off.
0+00 5.0 220.3 211.0

9.3

(No grade given on plans. To be checked
in field)

0+42 x 4.9 220.4 211.10

9.3

0+58 x 5.0 220.3 211.52

8.8

0+74 x 4.9 220.4 212.36

8.0

0+90 x 4.9 220.4 212.78

7.6

1+00 4.9 220.4 212.79

7.6

1+50 4.9 220.4 212.86

7.5

2+00 4.8 220.5 212.93

7.6

2+50 x 4.7 220.6 213.0

7.6

225.28

3+00	x		4.5	220.8	213.70	7.1
3+50			4.0	221.3	213.98 214.03	7.3
4+00			3.8	221.5	214.26 214.37	7.2
4+25	x		3.7	221.6	214.40	7.2
TP		3.76	224.95	4.09	221.19	
4+50	x		3.1	221.8	214.40 214.70	7.4
5+00	x		3.2	221.7	214.40 214.70	7.3
5+25	x		3.4	221.5	214.10	7.1
5+50			3.6	221.3	214.13 214.16	7.2
6+00			4.2	220.7	213.60 213.62	7.1
6+50			4.8	220.1	213.07 213.08	7.0
7+00			5.3	219.6	212.53 212.54	7.1
7+50	x		5.8	219.1	212.00	7.1
8+00			6.8	218.1	210.87	7.2
8+50			8.0	216.9	209.75	7.2

Grade lowered to give clearance
for air valves.

224.95

9+00		9.2	215.7	208.62
+50		10.3	214.6	207.50
10+00		11.4	213.5	206.37
TP	0.12	213.48	11.59	213.36
10+50		1.0	212.5	205.25
11+00		2.4	211.1	204.12
+50	x	3.6	209.9	203.00
12	x	4.3	209.2	201.80 202.50
+50		5.0	208.5	201.53 202.00
13+00		5.6	207.9	201.27 201.50
+50	x	5.8	207.7	201.00
14+00		5.0	208.5	200.78
+50		4.7	208.8	200.57

7.1

7.1

7.1

7.1

7.3

7.0

6.9

7.4

6.7

7.0

6.5

GRADE LOWERED TO CLEAR
GAS + WATER LINES

6.6

6.4

6.7

7.7

8.2

213.48

15+00		4.3	209.2	200.35	8.9
+50		4.3	209.2	200.13	9.1
16+00		4.9	208.6	199.93	8.7
ck on B.M.	0.34	213.05	0.77	212.71	
46125		4.9	208.1		
+32.02 A		5.0	208.0	199.8	8.2
+50 x		5.3	207.7	199.7	8.0
17+00		6.0	207.0	199.7	7.3
17+36 ²² Back					
17+00 ahead x		6.6	206.4	199.60	6.8
17+50 x		7.4	205.6	198.70	6.9
18		8.5	204.5	197.43	7.1

Top of F. Hdq. 63rd Imp. Rec. 212.62; 212.64; 212.67 etc.
Book 675

13+50 - 17+36
Grade lowered by contractor's engineer
to give clearance on 6" water line

213.05

18+50 9.8 203.2 196.17 7.0

19+00 x 11.2 201.8 194.80 6.9

+50 x 13.0 200.0 193.10 6.9

P 0.31 201.48 11.88 201.17

20+00 3.6 197.9 190.77 7.1

+50 5.7 195.8 188.43 7.4

21 x 8.0 193.5 186.10 7.4

+50 10.3 191.2 184.05 7.2

22+00 x 12.4 189.1 182.00 7.1

P 0.94 190.22 12.20 189.28

22+50 3.0 187.2 180.25 7.0

23 x 4.6 185.6 178.50 7.1

+50 6.0 184.2 177.40 6.8

24 x 6.7 183.5 176.30 7.2

+50 7.2 183.0 175.76 7.2

25 7.7 182.5 175.21 7.3

190.22

25+50 8.2 182.0 174.67 7.3

TP 1.78 183.78 8.22 182.00

25+75 x 2.0 181.8 174.40 7.4

26+00 2.2 181.6 173.73 7.9

+50 x 2.7 181.1 172.40 8.7

27 3.2 180.6 172.32 8.3

+50 3.6 180.2 172.25 8.0

28 4.1 179.7 172.17 7.5

+50 x 4.6 179.2 172.10 7.1

29 5.1 178.7 171.64 7.1

+50 5.5 178.3 171.18 7.1

30 5.9 177.9 170.72 7.2

+50 6.5 177.3 170.26 7.0

31 x 7.0 176.8 169.80 7.0

+50 7.5 176.3 168.90 7.4

TP 0.69 176.77 7.70 176.08 1

176.77

32+00 1.2 175.6 168.00

7.6

+50 2.3 174.5 167.10

7.4

33 x 3.6 173.2 166.20

7.0

+50 5.1 171.7 164.53

7.3

34 6.6 170.2 162.87

7.3

+50 x 8.0 168.8 161.20

7.0

35 9.6 167.2 159.95

7.3

+50 x 11.0 165.8 158.70

7.1

36 12.1 164.7 157.97

6.7

TP 2.08 166.90 11.95 164.82

36+50 2.9 164.0 157.25

6.8

37 3.5 163.1 156.52

6.9

+50 x 4.1 162.8 155.80

7.0

38 4.4 162.5 155.60

6.9

38+148A 4.4 162.5 155.53

7.0

+50 4.6 162.3 155.40

6.9

166.90

39+00 x	4.8	162.1	155.20
+50 x	4.8	162.1	151.80
+75 x	4.9	162.0	151.80
40+25 x	5.0	161.9	154.80 155.00
40+50	5.0	161.9	154.80 155.00
41+00	5.1	161.8	154.80 155.00
+50	5.2	161.7	154.80 155.00
TP 440	166.15	5.15	161.75
Set. B.M.	1.45		
41+75 x	4.4	161.7	154.80 155.00
42+00 x	4.5	161.6	154.80 154.8
+2462 A	4.5	161.6	154.80 154.66
42+44 1/2 x		161.6	154.8
+50	4.6	161.5	154.50

6.9

10.3

10.2

7.1

7.1

7.0

6.9

GRADE LOWERED TO GIVE CLEARANCE
FOR AIR VALVES.

Top of F. Hgd. LINNET DR + IMP.

6.8

6.8

6.9

6.8

7.0

Grade raised to clear sewer

166.15

43	x	5.1	161.0	154.20
+38.11	BC.	5.8	160.3	153.54
+50		6.1	160.0	153.33
+75	x	6.7	159.4	152.90
44		7.5	158.6	151.96
+25		8.4	157.7	151.01
+50		9.3	156.8	150.07
+75		10.3	155.8	149.12
45	100	11.3	154.8	148.18
+25		12.2	153.9	147.24
TP	0.37	154.67	12.01	154.14
45	150	1.5	153.0	146.29
+75	CC.	2.4	152.1	145.35
+96	CC.	3.1	151.4	144.54
46	100 x			144.40

6.8

6.8

6.7

6.5

6.6

6.7

6.7

6.7

6.6

6.7

6.7

6.8

6.9

154.51 ✓

46.150 x 4.4 150.1 143.20

47.100 4.9 149.6 142.67

+50 5.5 149.0 142.15

48.100 5.7 148.8 141.62

+50 x 6.0 148.5 141.10

+ 80.13 B.C. 6.1 148.4 140.17

+50 6.1 148.4 139.86

49 6.2 148.3 139.55

+10 6.2 148.3 139.24

+20 6.2 148.3 138.93

+30 6.3 148.2 138.62

+40 6.4 148.1 138.31

+50 x 6.4 148.1 138.00

6.9

6.9

6.9

7.2

7.4

8.2

8.5

8.8

9.1

9.4

9.6

9.8

10.1

154.51

49+60	6.5	148.0	138.19
49+70 ⁸ EC	6.5	147.9	138.39
50+00	6.7	147.8	138.93
+25 x		147.9	139.40
π 3 41 151.72	6.20	148.31	
50+50	3.8	147.9	139.40
51	3.9	147.8	139.40
+50	4.2	147.5	139.40
52	4.6	147.1	139.40
+25	4.6	147.1	
+50 x	4.6	147.1	139.40
53	4.3	147.4	140.24
+35 ¹⁶ BC	4.1	147.6	140.83
+50	4.0	147.7	141.08

9.8

9.5

8.9

8.5

8.5

8.4

8.1

7.7

7.7

7.2

6.8

6.6

	151.72				
53+75x		3.6	148.1	141.50	6.6
54+00		3.1	148.6		
+0569.00		2.9	148.8	142.40	6.3
+25x		2.2	149.5	143.20	6.3
IP	11.25	162.74	0.23	151.49	
54+75		10.8	151.9	145.60	6.3
55+25x		8.5	154.2	148.00	6.2
+50		7.4	155.3	148.89	6.4
56		5.1	157.6	150.66	6.9
+50		3.0	159.7	152.44	7.3
57		1.1	161.6	154.21	7.4
+25x		0.5	162.2	155.10	7.1
IP	6.69	168.68	0.75	161.99	
57+75x		5.6	163.1	156.00	7.1

168.68

58+20 5.4 163.3 156.17 7.1

+50 5.2 163.5 156.51 7.0

59 4.9 163.8 156.85 7.0

+43.20 B.C. 4.5 164.2 157.15 7.1

+50 * 4.5 164.2 157.20 7.0

60 4.1 164.6 157.20 7.4

+50 * 4.2 164.5 157.20 7.3

61 4.8 163.9 156.72 7.2

ck on B.M. 4.17 164.51 (Rec 164.57) 164.54 etc

61 +50 5.2 163.5 156.24 7.3

62 5.9 162.8 155.76 7.0

+22.42 E.C. 6.2 162.5 155.55 7.0

R 3.12 165.43 6.37 162.31

62+50 3.3 162.1 155.28 6.8

165.43

63+00 x	3.8	161.6	154.80	6.8
+50	4.0	161.4	154.52	6.9
64+00	4.2	161.2	154.25	7.0
+50	4.5	160.9	153.97	6.9
65+00 x	4.6	160.8	153.70	7.1
+50	4.8	160.6	153.63	7.0
66+00	5.0	160.4	153.57	6.8
+50 x	5.1	160.3	153.50	6.8
67	5.3	160.1	153.20	6.9
+50	5.6	159.8	152.92	6.9
68	5.8	159.6	152.60	7.0
71 ck on B.M. 0.29	162.33	3.39	162.04	
68+50 x	3.0	159.3	152.30	7.0
69+00	3.4	158.9	151.79	7.1

Aug 14, 1945
Sober
King
Phillips

52

Top of K. Hdy S.E. Cor 54th Imp. Rec. 162.08; 162.09 etc.

162.33

69+50		3.8	158.5	151.29
70+00		4.5	157.8	150.78
+50		5.0	157.3	150.28
71+00		5.5	156.8	149.77
+50		6.1	156.2	149.26
72+00		6.5	155.8	148.76
+50		6.8	155.5	148.25
+75	x	6.9	155.4	148.00
73		7.0	155.3	148.00
+50		7.3	155.0	148.00
TP	5.51	160.61	7.23	155.10
74		5.6	155.0	148.00
+50		5.6	155.0	148.00
ck on B.M.		3.30	157.31	148.00
75+00	x	5.4	155.2	148.00

Top of F. Hdq. S.F. Cor 53rd + Imp. Rec. 157.34; 157.35 etc.

7.2

160.61

75+50 x 5.3 155.3 148.40 6.9

76 4.6 156.0 149.40 6.6

+50 3.7 156.9 150.40 6.5

77+00 2.6 158.0 151.40 6.6

+50 x 1.6 159.0 152.40 6.6

78 1.1 159.5 152.40 7.1

+50 x 1.2 159.4 152.40 7.0

79+00 2.0 158.6 151.62 7.0

79 2.05 160.68 1.98 158.63

79+50 2.9 157.8 150.85 7.0

80 3.6 157.1 150.07 7.0

+50 x 4.4 156.3 149.38 7.0

81 5.0 155.7 148.85 6.9

+50 x 5.4 155.3 148.40 6.9

	160.68				
82+00		5.6	155.1	148.40	6.7
+18 ⁸		5.6	155.1	148.40	6.7
+66 ⁵		5.0	155.7	145.50	12.2
+82 ⁵		4.7	156.0	145.50	10.5
83+15		3.7	157.0	148.04	9.0
+62 ³		2.4	158.3	151.74	6.6
TP	9.52	167.62	2.58	158.10	
84+00		8.1	159.5	152.50	7.0
+35 ^x		7.3	160.3	153.00	7.3
+50		6.5	161.1	153.77	7.3
85		5.1	162.5	155.31	7.2
+50		3.5	164.1	156.84	7.3

167.62

86+00 1.9 165.7 158.38 7.3

TP 10.27 176.96 0.93 166.69

86+50 9.6 167.4 159.92 7.5

87 8.1 168.9 161.46 7.4

+50 x 6.6 170.4 163.00 7.4

88 4.9 172.1 164.94 7.2

+50 3.1 173.9 166.88 7.0

89 2.2 175.8 168.82 7.0

TP 10.37 186.81 0.52 176.94

ck on B.M. 6.97 179.84

89+37^E 9.8 177.0 170.28 6.7+69^E 8.5 178.3 170.64 7.7+85^E 8.0 178.8 171.23 7.6

Top of F. Hyd. S.E. Cor Euclida Temp. Rec 179.93; 179.92 etc.

186.81

90+01.2	7.3	179.5	172.24
90+33.2	6.0	180.8	173.74
90+50	5.4	181.4	174.25
91	4.1	182.7	175.80
+50	3.2	183.6	176.70
92+00	2.8	184.0	176.70
+50	2.8	184.0	176.70
(Rtd. to back trap)			
93+00	3.0	183.8	176.70
93+25	2.6	184.2	176.70
+50	2.6	184.2	176.70
93+60		184.3	176.70
‡ 93+66.59 ‡ BONITA STEEL		184.9	

57

7.3

7.1

7.2

6.9

6.9

7.3

7.3

7.1

7.5

7.5

7.6

GRADES - VALVE CHAMBER - BONITA CONN. 0+14

B.M. 2.16 225.92 223.76

2' off.
S.W. COR 5.57 220.35

GRADE -
TOP OF
CONC. FLOOR

209.90
210.20

2' off
S.E. COR 5.54 220.38

210.20
210.50

2' off
N.E. COR 5.52 220.40

210.50
210.80

2' off
N.W. COR 5.75 220.17

210.20
210.50

SEPT. 25, 1945

B.M. 2.00 225.76 223.76

11.13 214.6

SEPT. 22, 1945

SOPER
WARD
PHILLIPS

58

TOP OF HYD.

CUT

SEPT. 15 - GRADE LOWERED 0.30

10.45
10.15

10.18
9.88

9.90
9.60

9.97
9.67

TOP OF EXIST. 36" - 2nd MAIN P.L.

Rcc. 214.5±

SEPT. 28, 1945 59
SUPER
WARD
PHILIPS

GRADES - S.O. CHAMBER - 0+36 BONITA CONN.

B.M. 3.19 226.95 223.76

GRADE -
TOP OF
CONC. FLOOR

2' offset
S.W. COR 6.54 220.41 210.50 9.91

2' off
S.E. COR 6.55 220.40 210.50 9.90

7' off
N.E. COR 6.86 220.09 210.20 9.89

6' off
N.W. COR 6.78 220.17 210.20 9.97

GRADES - VALVE CHAMBER - 92+92 BONITA CANY

Oct 5, 1945
Soper
Ward
Phillips 60

B.M. 9.15 188.99 179.84

TP 5.25 189.31 4.93 184.06

2' OFF NAIL
S.W. COR 5.46 183.85 175.70

2' OFF NAIL
S.E. COR 5.38 183.93 175.40

2' OFF HUB
N.E. COR 4.49 184.82 175.40

2' OFF HUB
N.W. COR 4.86 184.45 175.70

ck on 66ft
93+00 5.4 183.9 183.8

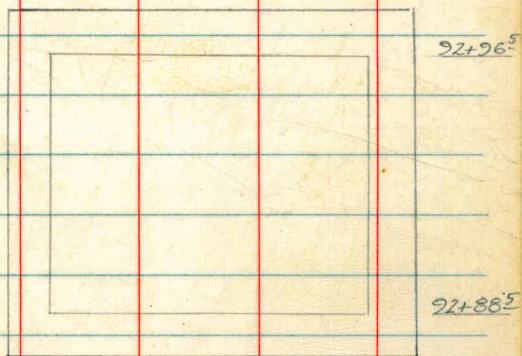
TOP OF F. N.Y.D. S.E. COR EUCLID = IMP.

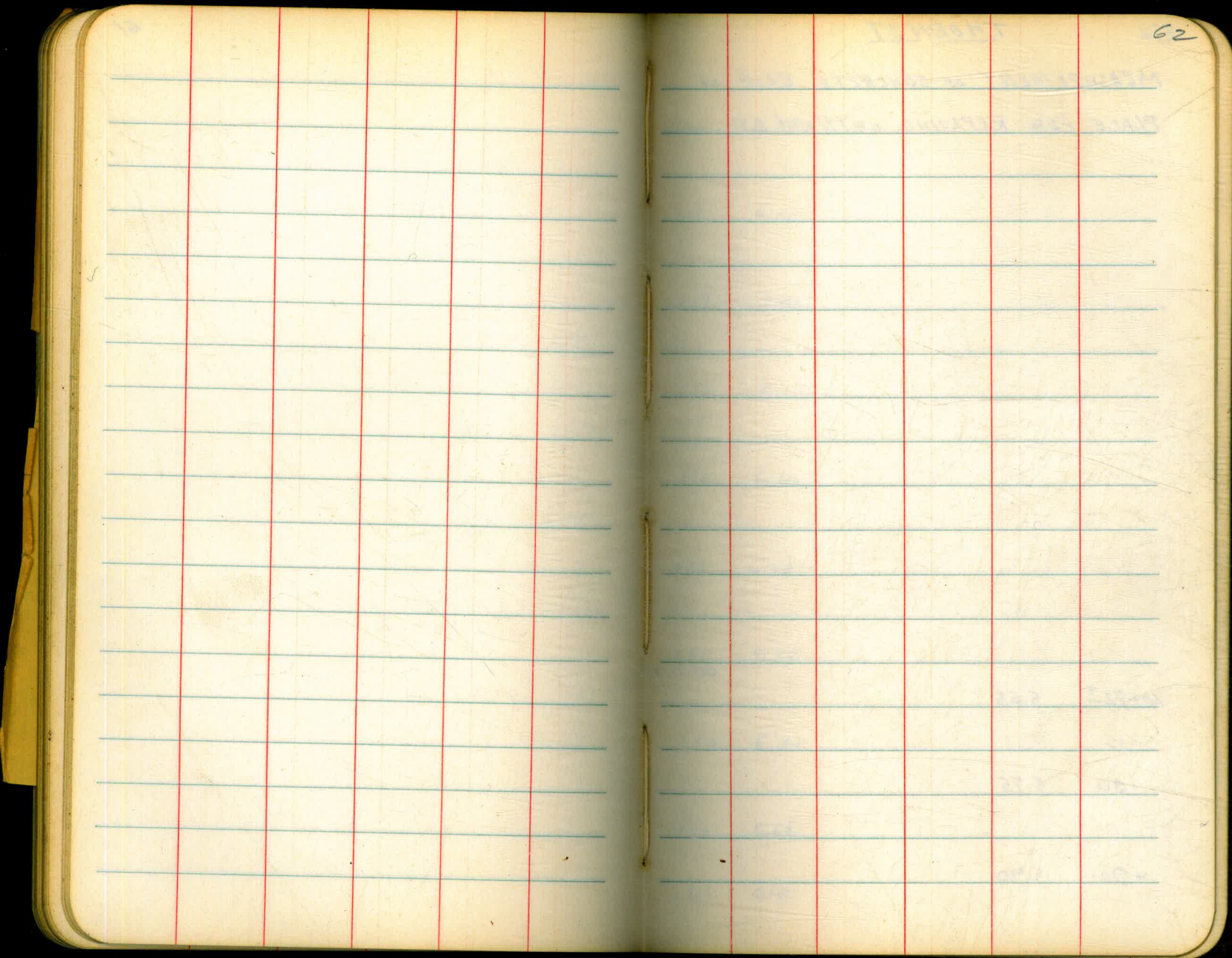
8.15

8.53

9.42

8.75





THORN ST

MEASUREMENT OF CONCRETE BASE IN
PLACE FOR REPAVING OF THORN ST.

1100 5.60

110 6.00

117 7.40

120 6.10

136 6.10

136 6.00

Oct. 20, 1946

140 5.35

10+72.7 5.65

150 5.45

180 5.75

1100

190 5.90

150 5.40

160 5.65

163 6.10

11+70 6.40

+77 6.50

+80 6.20

+90 6.00

12+00 5.90

+10 6.15

+12 6.50

+19 5.60

+24 5.60

+30 6.30

12+40 5.55

+50 5.55

+60 5.60

+70 5.60

+80 5.40

+90 5.55

13+00 5.50

+10 5.50

+20 5.50

+30 5.50

13+40 5.55

+44 5.55

+50 6.00

+63 6.10

+65 5.40

+70 5.60

+80 5.50

+90 5.55

14+00 5.55

14+60 5.55

65
14+70 5.70

+74 5.50

+78 5.10

+80 5.85

+90 5.60

15+00 5.70

+10 5.70

+13 6.30

+15 5.90

+20 5.60

15+33 5.60

+38 6.40

+39 5.60

+50 5.60

+70 5.50

+80 5.60

16+00 5.70

+10 5.60

+20 5.80

+40 6.10

16+47 7.80

+50 5.60

+55 6.70

+60 6.00

+66 6.00

+70 8.30

+73 8.20

+77 5.90

+79 6.60

+83 6.50

16+86 5.70

+90 7.00

+95 6.00

17+00 7.30

+11 6.40

+18 7.40

+23 6.60

+27 7.40

+32 6.50

+40 6.00

67
17+50 6.10

+60 6.50

+70 6.30

+80 6.10

+90 5.70

+93 5.70

18+04 7.40

+11 5.70

+20 5.60

+37 5.60

18+40 7.10

+43 5.60

+58 5.55

+62 6.10

+70 6.70

+75 6.00

+80 6.00

+90 5.70

18+97 - E OF A.V. CONC. CHAMB. DIAMETER = 45

19+00 5.55

19+07 6.20

+10 5.80

+15 6.10

+24 6.20

+28 6.00

+34 5.60

+50 5.70

+70 5.60

+78 5.70

+84 5.70

68
NOTE: BETWEEN 19+78 AND 19+84
THERE ARE TWO PATCHES
OUTSIDE THE 5.70 WIDTH.
TO THE NORTH - 7.30 x 3.00
TO THE SOUTH - 2.60 x 5.70

19+90 5.80

20+90 5.50

20+00 5.60

21+00 5.60

+10 5.60

+10 5.80

+20 5.50

+20 5.40

+30 5.40

+30 5.50

+40 5.55

+50 5.60

+50 5.60

+71 5.60

+60 5.70

+73 6.60

+74 5.50

21+77 5.60

+80 5.60

22+15 5.60

22+20 6.70

22+84 7.10

+25 6.10

+87 6.00

+27 5.55

+89 6.00

+30 6.00

+96 7.60

+33 5.60

23+00 5.70

+50 5.60

+10 5.70

+60 5.70

+12 7.60

+70 5.70

+20 9.20

+80 6.00

+23 10.1

+82 6.40

+28 8.9

23+34 8.0 24+60 6.50

+37 5.50 164 7.10

+40 5.40 +67 5.70

24+00 5.40 +70 5.50

+10 5.50 +73 6.10

+20 5.50 +75 6.50

+30 5.60 +78 6.30

+40 5.60 +81 6.30

+46 5.40 +83 5.80

+50 6.20 +85 5.70

24+88 5.90 25+61 5.80

+22 6.10 +66 7.20

25+20 6.50 +70 6.80

+07 6.50 +80 6.80

+10 6.00 +90 6.00

+17 6.80 26+00 6.40

+26 6.80 +03 10.20

+30 6.30 +04 13.40

+40 6.00 +08 13.50

+50 5.60 +09 9.5

26+11 6.50 27+42 6.10

+20 6.50 +44 6.40

+30 6.00 +47 5.80

+40 5.70 +52 6.50

+50 5.60 +60 6.50

+90 5.60 +70 6.00

27+10 5.80 +77 5.80

+16 6.50 +81 7.60

+30 6.00 +84 8.60

+36 5.70 +87 9.00

27+90 7.00 28+20 5.70

28+00 6.00 29+00 5.70

SOUTH - 5.2 x 4.0
NORTH - 4.4 x 4.1
OUTSIDE OF
DITCH WIDTH #

+10 7.40 29+11 5.60

+20 7.00 29+24⁰⁰ 5.6

END PAVE.
FACE OF CURB

NOTE: 7³ Lin. H. of CURB REPLACED

+30 6.80 NOTE: 7³ " " " " "

+40 5.80 31+69²⁰ 5.7

END CURB
BEGIN. PAVE

+50 6.10 +80 5.7

+60 6.10 32+00 5.6

TO NORTH - 9.5 x 3.1 OUTSIDE OF WIDTH
AS SHOWN

+70 5.00 TO SOUTH - 4.2 x 5.0
AND 9.1 x 4.3 OUTSIDE OF WIDTH
AS SHOWN

+80 6.00 32+20 5.6

OCT. 22 1945

72

32+30 5.70

33+32 7.70

32+50 5.70

+40 8.00

+60 5.80

+48 7.20

+70 6.00

+60 7.00

+80 5.90

+67 6.10

+90 5.60

+72 5.70

33+10 5.60

+80 7.20

+15 6.70

+90 6.30

+20 7.20

34+00 6.20

+28 7.20

+10 6.00

34+20 6.40

35+20 5.50

+30 6.10

+30 5.50

+40 6.20

+40 5.40

+50 6.40

+50 5.50

+60 6.50

+90 5.50

+70 5.80

36+00 5.40

+80 5.70

+40 5.40

+90 5.60

+50 5.50

35+00 5.50

+60 5.40

+10 5.40

37+50 5.40

37+60	5.50	38+00	5.40	
		TO SOUTH - 25 x 25 OUTSIDE WIDTH AS SHOWN TO NORTH 25 x 18 " " " "		
180	5.50	39+00	5.60	
+90	5.40	+10	5.50	
38+10	5.40	39+18 ²⁵	5.50	END OF ASPHALT TOPPING
38+20	5.60	+30	5.80	
+30	5.50	+50	5.80	
+40	5.30	39+80.38 BACK 39+79.13 AND	5.70	
+50	5.50	40+00	5.70	
+60	5.30	+50	5.60	
170	5.40	41+00	5.70	

		TO SOUTH - 40 x 06	
41+50	5.60	44+00	5.80
		TO SOUTH 45 x 07	
42+00	5.70	+05	6.70
+50	5.70	+08	5.80
+54	8.00	+40	5.90
+57	6.00	+43	8.50
+85	5.60	+48	5.80
43+00	5.70	+64	5.70
+08	6.80	+71	7.00
+17	5.80	+73	5.80
		TO SOUTH 15 x 52	
+50	5.8	+85	6.00

74
OCT. 23, 1945

MEASUREMENT OF HOLES CUT IN
PAVEMENT ON THORN ST. IN ORDER
TO SHUT OFF WATER SERVICES.

44+87 7.5

+89 5.90

45+00 5.70
TO NORTH 6° x 05

+50 5.70

45+91.9 5.70

#1
10+60± 5° x 24

#2
15+12± 4° x 25

#3
15+27± 4° x 30

#4
17+90± 2° x 22

#5
18+46± 2° x 25

#6
18+76± 2° x 22

#7
19+25± 2.6 x 2.6

#8
21+10± 2.4 x 2.3

#9
21+75± 2.6 x 2.7

#10
23+62± 2.1 x 3.7

#11
24+40± 3° x 2.7

#12
27+85± 2.7 x 2.6

#13
36+120± 2.3 x 2.7

#14
37+10± 6.6 x 2.2

#15
38+00± 2.5 x 2.5

#16
38+40± 3.2 x 2.2

#17
43+33± 4.5 x 2.7 CONCRETE

#18
45+50± 3.3 x 2.3 CONCRETE

#19
46+80 2.8 x 3.7
IS THIS A
SERVICE?
NOT PATCHED
OCT 23-45

Oct 20, 1945

75

ASPHALT BASE IN PLACE - HIGHLAND AVE.

108+57 6.3 110+00 5.7

+70 6.4 +25 5.6

+80 6.6 +50 5.6

+90 8.0 +75 5.6

109+00 7.5 111+00 5.8

+10 6.0 +25 6.0

+25 5.7 +50 6.0

+50 6.8 +75 5.7

+75 6.3 112 6.0

112+25 5.8

+50 6.0

+75 6.0

113+00 6.0

+25 5.7

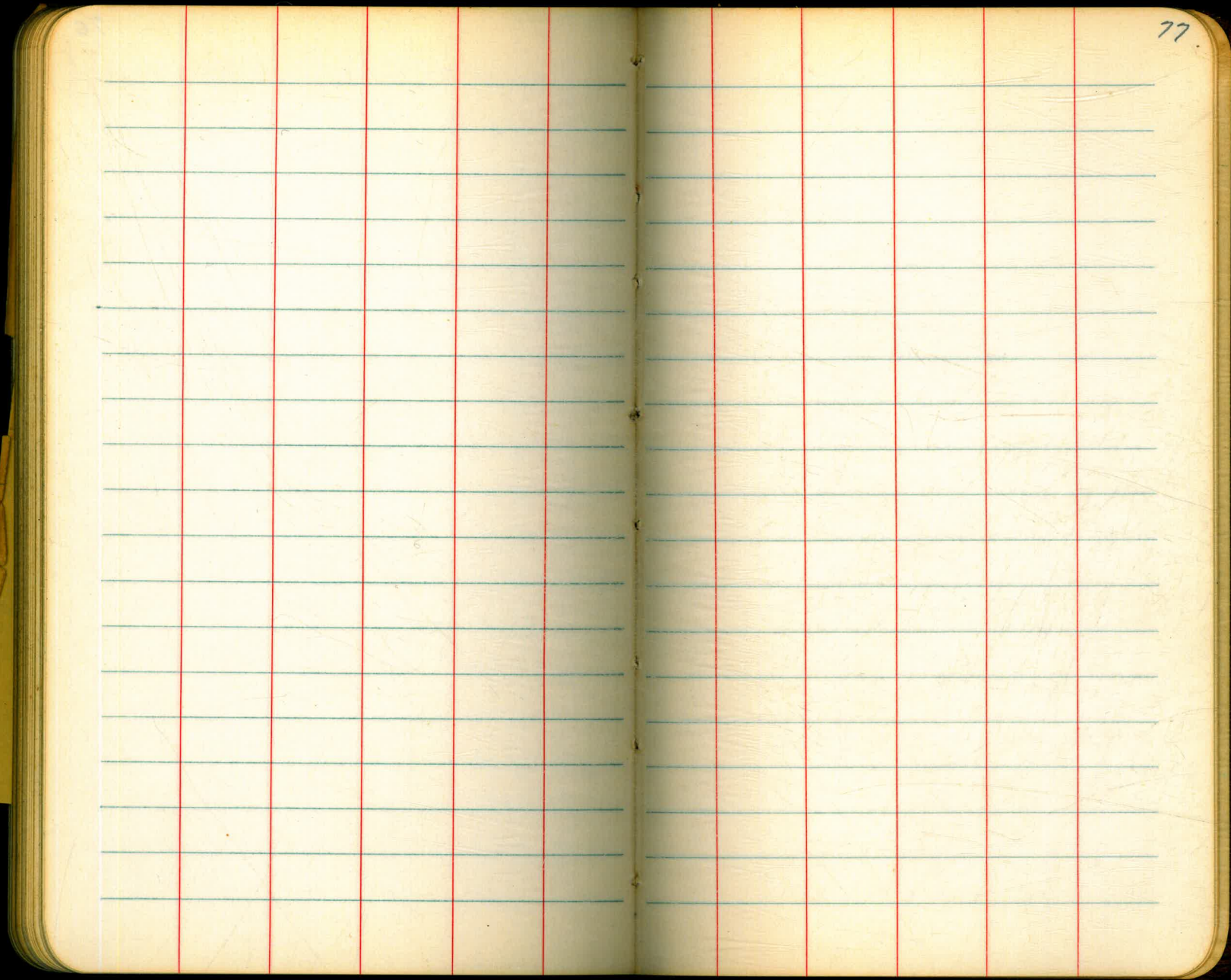
+50 5.8

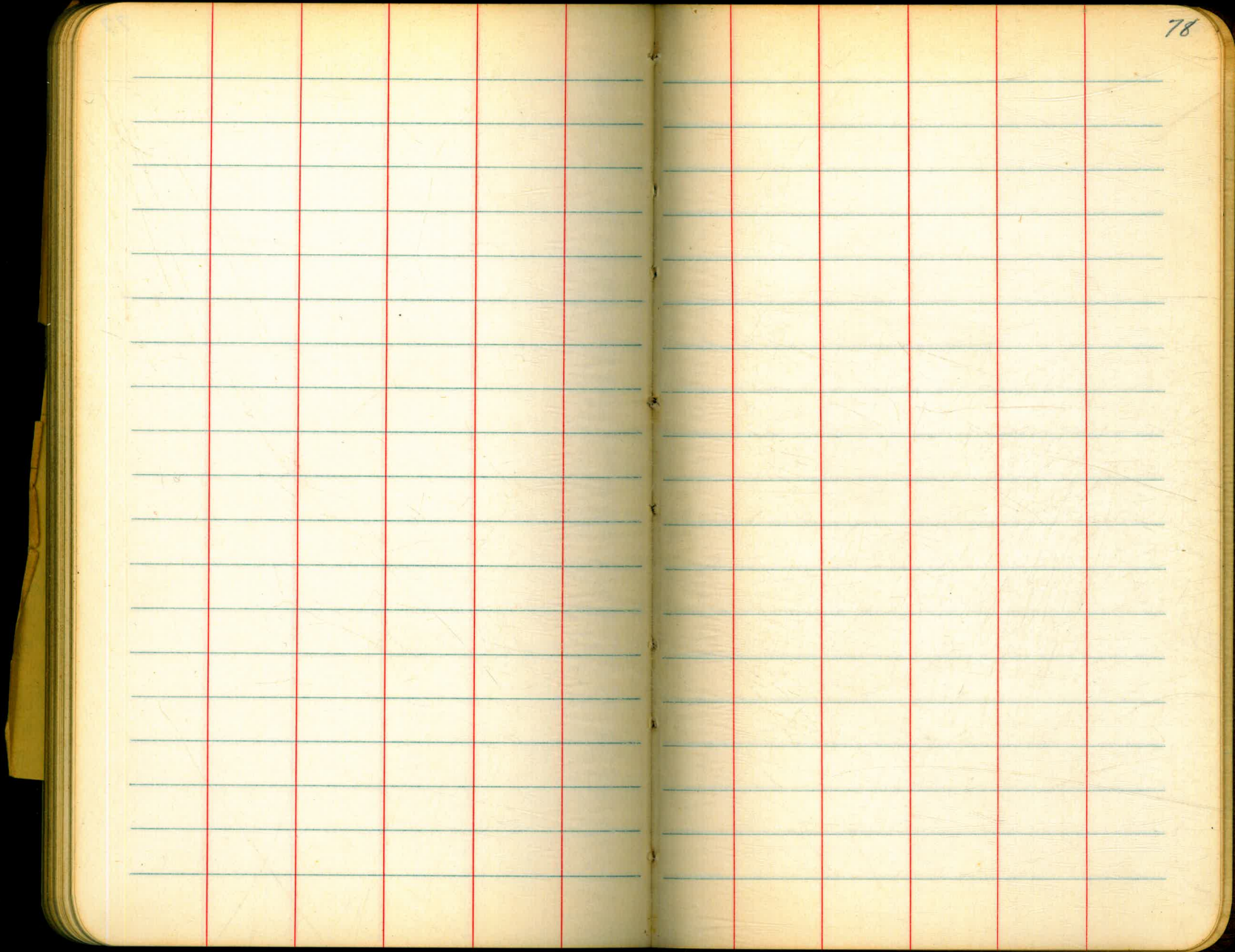
+75 5.8

114+00 5.8

114+07 5.7 END OF ASPHALT BASE IN PLACE - OCT. 20 - 45

The image shows an open notebook with two blank pages. The pages are cream-colored and feature blue horizontal ruling lines. Red vertical lines are drawn to create margins on both pages. The right page has the number '76' written in the top right corner. The notebook is bound in the center, and the pages appear slightly worn and aged.





The image shows an open notebook with two facing pages. Both pages are cream-colored and feature light blue horizontal ruling. Vertical red lines create margins on both sides of each page. The right page is numbered '79' in the top right corner. The notebook is bound in the center, and the pages appear slightly aged or used. There is no text or other markings on the pages.

W. B. P. Thorny Date 318.39

Use 36" from & pipe to top conc. floor
in 6-v. chambers, providing this gives 6 1/2 feet
in the clear. By verbal orders - Mr. Brown, June 27-45

15.5
9.75
9.905

Please Return to
City of San Diego Water Dept.
Room 268 Civic Center
Telephone Main 5161

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.