1719

EUGENE DIETZGEN CO.

DRAWING MATERIALS, MATHEMATICAL and SURVEYING INSTRUMENTS

Chicago New York San Francisco New Orleans Pittsburg Toronto

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)÷2 or 2 ft. added to 30.6 =32.6. For slopes of 1 on 1½ see inside of back cover.

1719

CITY ENGINEER'S OFFICE

Sisson

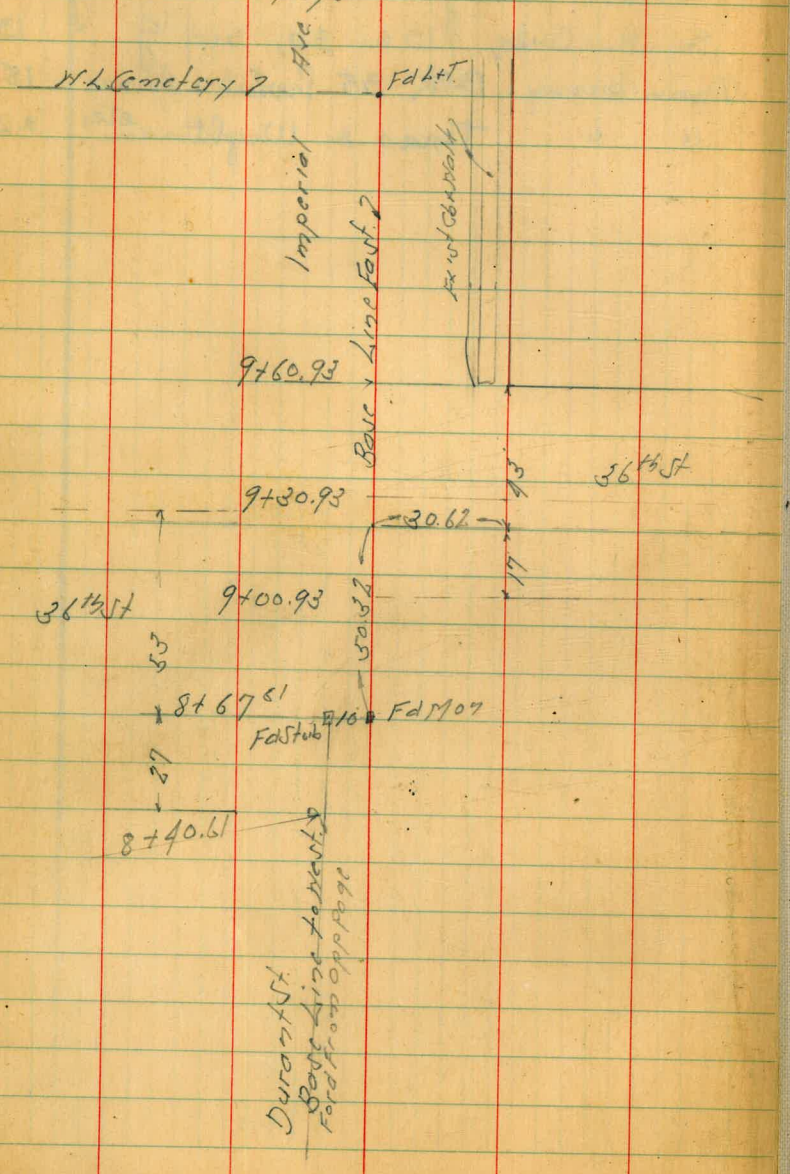
This Field Book is manufactured of a High Grade 50% Rag Paper having a WATER RESISTING SURFACE, and is sewed with Bing Special Enamel Waterproof thread.

Made in U. S. A.

INDEX

Cross Section Durant St
Francis St to East of 36th St

Levels next page



Indexed
C.S.K.

Sept. 4-96
Sisson
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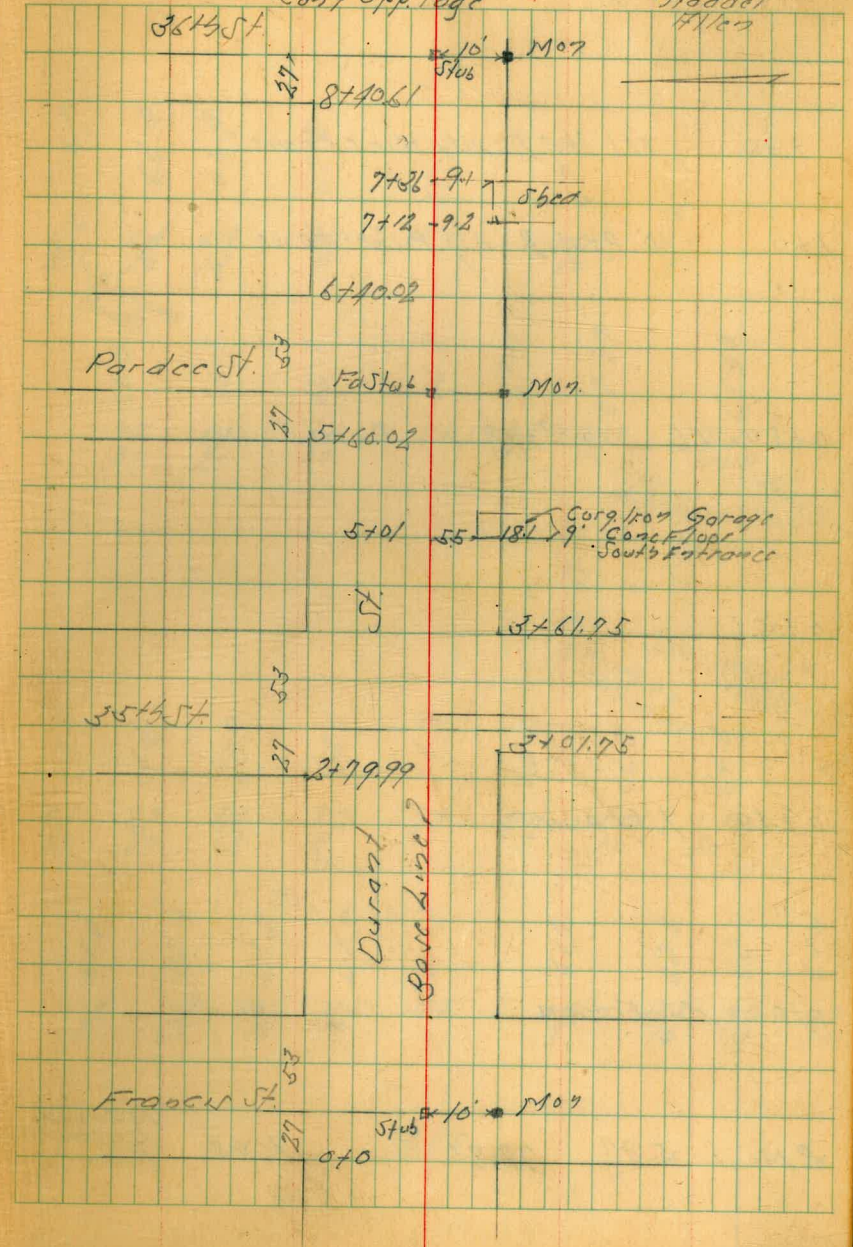
Cont Opp. Page



Durant St Francis St to 36th St

Station	Description						
+30	22.6 Lt of ℄ = Wly Wire Fence						
1+0	10' Rt of ℄ = Ely Picket Fence						
0+80 = EL	10' Rt of ℄ = Wly Picket Fence						
0+56							
0+40	= ℄ Francis						
0+0	= WL Francis						
BM	5.87	72.85		66.98	B'M at Durant & Francis		

Lt = N | ℄ | Rt = S

Station	Readings (elevation; rod / distance)
1+0	66.0 (6.8 / 28.5 = Sly Frame House); 66.4 (6.4 / 20); 66.9 (5.9 / 13); 67.0 (5.8 / 5); ℄ 67.1 (5.7); 67.1 (5.7 / 10); 65.9 (6.9 / 20)
0+80	65.3 (7.5 / 20); 65.9 (6.9 / 20); 66.7 (6.1 / 10); ℄ 66.7 (6.1); 67.0 (5.8 / 10); 67.37 (5.48 / 10 = Ely Cobble Wall); 65.44 (7.41 / 10.7 = Ely 3' Conc Wall)
0+56	67.19 (5.66 / 9.6 = Wly 0.7 Cobble Wall); 64.59 (8.26 / 10.3 = Wly 3' Conc Wall)
0+40	63.7 (9.1 / 30); 64.8 (8.0 / 20); 65.9 (6.9 / 13); 64.6 (8.2 / 9); ℄ 64.9 (7.9); 65.1 (7.7 / 5); 66.8 (6.0 / 10); 64.5 (8.3 / 20)
0+0	61.4 (11.4 / 30); 62.0 (10.8 / 20); 62.2 (10.6 / 10); 61.3 (11.5 / 8); ℄ 61.3 (11.5); 61.4 (11.4 / 8); 62.3 (10.5 / 10); 63.1 (9.7 / 12); 61.1 (11.7 / 20)
BM	℄ 72.85

Durant St.

+79.99 = W.L. 35th St. to North

+50

+20

+02 21.7' Lt of ℄ = △ Picket Fence
+01 10' Rt of ℄ = Ely Wire Fence
2+0

+92 26 Lt of ℄ = Wly Picket Fence
+87
+82 26' Lt of ℄ = Ely Wire Fence
+65 22.7 Lt of ℄ = △ Wire Fence
+52 10.3 Rt. of ℄ = Wly Wire Fence

1+50

72.85

Lt.			℄		Rt	
70.1 2.7/30	70.3 2.5/0	69.6 3.2/5	69.2 3.6	68.6 4.2/2	68.5 4.3/10	68.4 4.4/20

70.1 2.7/30	70.1 2.7/20	69.6 3.2/10	69.3 3.5/5	69.2 3.6	68.2 4.6/4	67.9 4.9/10	67.5 5.3/20
69.0 3.8/30	69.2 3.6/20	69.2 3.6/5	69.3 3.5	69.5 3.3/7	69.1 3.7/10	67.3 5.5/16	67.1 5.7/20
68.7 4.1/30	68.9 3.9/20	69.0 3.8/5	68.9 3.9	68.7 4.1/10	67.5 5.3/20		

68.75 4.10 26.6 = ℄ Garage Conc. Floor
68.80 4.05 21.8 = ℄ Sl. Conc. Apron

67.2 5.6/30	67.8 5.0/20	68.1 4.7/5	68.1 4.7	67.9 4.9/10	66.6 6.2/16	66.5 6.3/30

72.85

4+0

+86 20.3 Lt of ℄ = Sly Tel Pole

+74 10.4 Rt of ℄ = Wly Board Fence

3+61.75 = E L 35th to South

+55 26.5 Lt of ℄ = Sly Tel Pole

TP	11.36	83.46	0.75	72.10

+31.75 = ℄ 35th St to South

3+01.75 = W L 35th St to South 22' Lt of ℄ = Ely Picket Fence

	Lt				℄	Rt	
		76.9			75.8	77.7	
4+0	6.8/30	6.8/20	7.5/17	7.7/5	7.7	7.8/10	7.7/20
		75.5			75.2	75.4	
+74	8.0/30	8.0/20	9.0/18	9.6/5	8.2	8.1/10	8.3/20
		74.7			73.4	73.2	
3+61.75	8.5/30	8.8/20	10.0/18	10.4/5	10.1	10.3/10	10.2/20
		73.9			72.8	71.9	
+55	9.1/30	9.6/20	10.9/18	11.2/5	10.7	11.6/10	11.9/20
TP					83.46		
	70.3	70.9	71.1		71.0	70.9	70.7
+31.75	2.5/30	1.9/20	1.7/5		1.8	1.9/10	2.1/20
	70.7	70.6	70.1		69.9	69.9	69.9
3+01.75	2.1/30	2.2/20	2.7/5		2.9	2.9/10	2.1/20

Durant St.

Station	Notes	BS	HI	FS	Elev.	Lt.						℄	Rt	
							85.9					82.2	86.1	
6+00.02	℄ Pardee					8.6/30	8.8/20	9.1/14	8.48/5.2 = ℄ MH on Rim	8.6/5		8.5	8.6/10	8.6/20
						84.5						83.4	83.1	
+60.02	= WL Pardee St					10.5/30	10.2/20	10.3/15	11.7/14	11.9/5	11.8/1	11.5	11.6/10	11.0/20
TP		12.56	94.74	1.28	82.18							94.74		
+34	19.3 Lt of ℄ = Sly Tel Pole													
							91.5					81.1	82.0	
+30						1.9/30	2.0/20	2.0/17	2.3/15	2.5/5		2.0	1.5/10	0.5/20
+01	11' Rt of ℄ = Ely Wire Fence													
							79.8					80.0	80.5	
5+0						3.7/30	3.7/20	4.2/16	4.3/5	3.6/3		3.5	3.0/10	2.6/20
+70	98 Rt of ℄ = Ely Board Fence & Wly Wire Fence													
								77.9				78.0	78.0	
+50							5.3/30	5.6/20	6.1/18	5.8/5		5.5	5.5/10	5.7/20
4+12													6.28/10 = MH on Conc. S/Wall	

83.46

83.46

+98	17.6 Lt of ℄ = Ely Picket Fence			
+83	16.7' Lt of ℄ = Sly Tel Pole			
+80				
+50				
+36	9.1 Rt of ℄ = Wly Board & Picket Fence			
+12	9.2 Rt of ℄ = Ely Wire Fence 19.5' Lt of ℄ = Wly Picket Fence			
+07				
TP	9.51	102.69	1.56	93.18
7+0	27' Lt of ℄ = Ely Fence on North			
+87	8.5 Rt of ℄ = Wly 9" Pepper Tree			
+85	8.6 Rt of ℄ = Wly Woven Wire Fence			
+70				
+55	17.8 Lt of ℄ = Sly Tel Pole			
+45	10.4 Rt of ℄ = Ely Wire Fence			
6+40.02	= E.L. Pardee to North			
+38	21.2 Lt of ℄ = Wly Wire Fence			
6+12	10¼ Rt of ℄ = Wly Wire Fence			

		99.0		98.8	93.3	
	3.7/30	3.7/20	4.0/5	3.9	1.4/10	1.3/20
		98.4		97.6	91.0	
4.1/30	4.13/20.2 = Sly Conc Walk	4.3/20	5.5/5	5.1	3.9/10	3.2/20
		96.? 8.1/27.3 = Lt Sly Garage Dirt Floor		102.69		
	92.3			93.3	90.7	
0.4/30	0.4/20	1.3/11	1.5/5	1.4	1.0/10	0.6/20
	91.4			90.7	91.6	
3.5/30	3.3/20	4.2/12	4.2/5	4.0	3.1/8 = Lt Wly Garage Dirt Floor	
	89.2			88.8	89.0	
4.9/30	5.2/20	6.4/12	6.4/5	6.2	5.7/10	5.5/20

Durant St.

9+00.93	= W.L. 36th St to South			
+88				
TP	3.47	95.94	10.22	92.47
+80.61	= ℄ 36th St to North			
+56	15.7 Lt of ℬ = Sly Anchor Pole			
+50	16.3 Lt of ℬ = Sly 6" Pepper Tree			
+44	4.6 Rt of ℬ = NWly Light Pole			
+40.61	= W.L. 36th St to North			
+19	15.9 Lt of ℬ = Sly 28" Fac. Tree			
+17				
+07	8.9 Rt of ℬ = Ely Board & Picket Fence			
8+00				

102.69

Lt. ℬ Rt.

102.69

BM			4.65	97.93	S.E.B.P. Imperial & South look 97.91
16+86	= Approx N.L. Alley				
TP	7.61	102.58	0.97	94.97	
10+26					
+86					
+60.93	= E.L. 36th to South				
+30.93	= ℄ 36th to South				
9+14					

9594

Lt. ℄ Rt.

16+86:
- 96.74, 97.08, 97.08, 97.49
- 5.84 / 16 = N.L. Pav; 5.62 / 8; 5.50; 5.50 / 10; 5.69 / 20 = Gutter; 5.09 / 20 = Cb

TP: 102.58

10+26:
- 94.81, 96.32, 95.59, 96.06
- 1.13 / 15.7 = N.L. Pav.; 0.82 / 7; 0.62; 0.45 / 9; 0.58 / 20 = Gutter; + 0.12 / 20 = Cb

+86:
- 92.99, 93.70, 93.96, 94.66
- 2.95 / 18 = N.L. Pav.; 2.63 / 10; 2.24; 1.98 / 10; 2.00 / 20.3 = Gutter; 1.28 / 20.3 = Cb

+60.93:
- 91.78, 92.54, 93.03, 93.67
- 5.27 / 26 = N.Ely Pav; 4.16 / 12 on Pav; 3.40; 2.91 / 12; 2.81 / 23 = Gutter; 2.27 / 23 = Cb End; 2.1 / 30

+30.93:
- 90.18, 90.95
- 7.57 / 41.5 = N.Ely Pav.; 5.76 / 20 on Pav.; 4.49 / on Pav.; 4.23 / 6.7 = S.Ely Pav.; 4.0 / 20; 3.5 / 30

9+14:
- 90.08, 90.50
- 8.36 / 50 on Pav.; 6.80 / 30 on Pav.; 5.86 / 15 on Pav; 5.44 = S.Ly Pav; 4.45 / 18.3 = E.L. Conc Valve Chamber; 3.9 / 30

9594

Survey for Drain on S. side of laurel st. E. of Pacific Hwy.

Surveyed

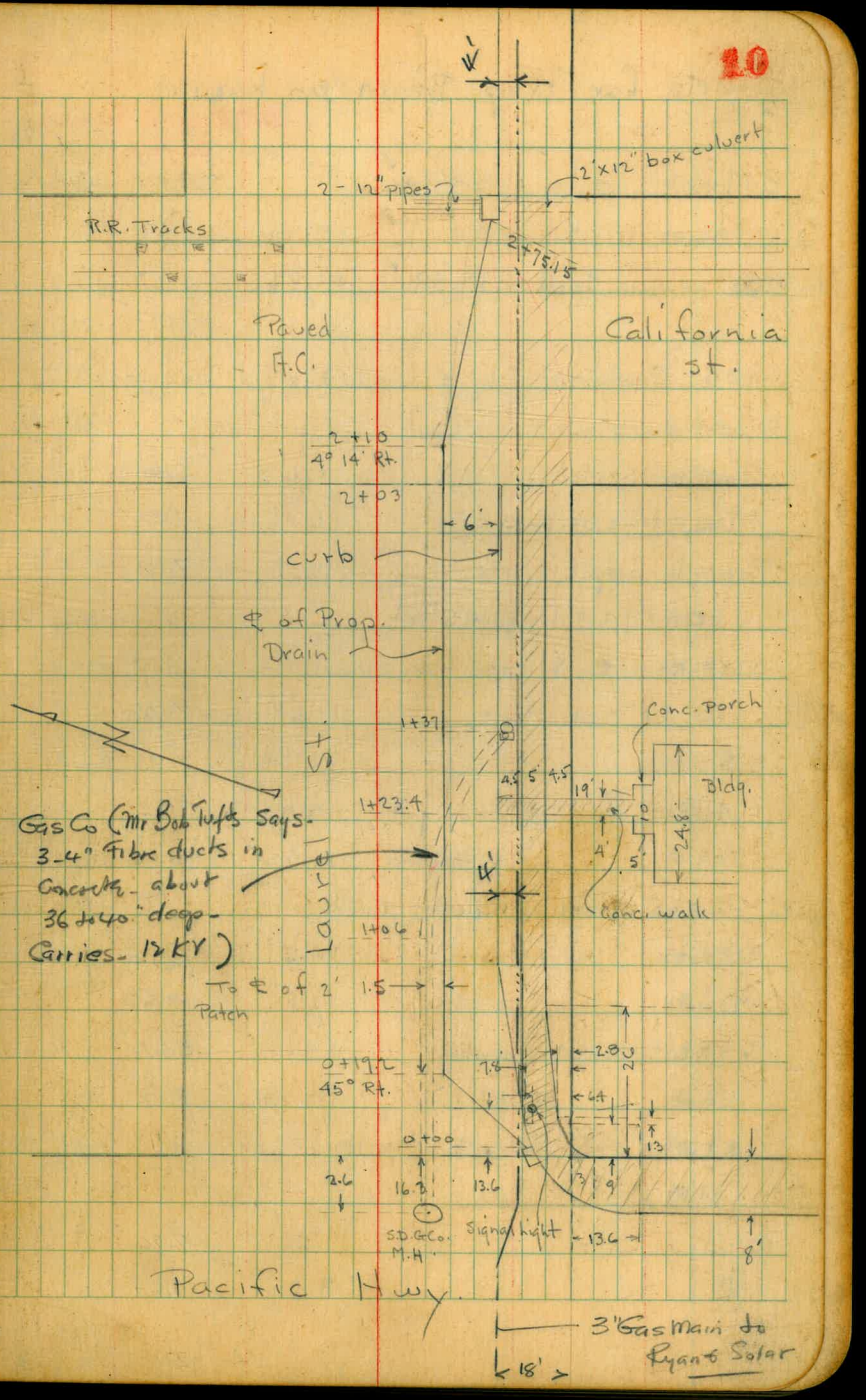
11-8-46

Osborne
Hardin
Worrell
Smith

604

W.O. 209 ✓

1+06 = P.C. in ditch for conduit - High tension Cable (looks like)



Levels for Prop. Drain on Laurel. 77

BM Record Shows - 32.97

B.M.	0.10	32.94 ✓		32.84	S.E. B.P. Laurel & Kettner
	1.37	22.17 ✓	12.14	20.80	
	9.27	19.47 ✓	11.97	10.20	

0+00 = Center of Ely. side of 2'x3.5' Box for G type curb inlet

Top of grate	12.67	6.80
Flow line of box	16.98	2.89
Top cb. opp.	11.59	7.88

0+19.2 = Ang. 45° Rt.

13.3 Rt = ℄ 8" base for Signal Control box

10' Lt = on Pave	11.69	7.78
℄	12.04	7.83
11.4 Rt = face cb. in gut	12.28	7.22
" " top cb	11.42	8.05

0+65 = opp. angle in curb.

10 Lt.	10.51	8.96
℄	10.81	8.66
6 Rt. = curb - gut.	10.86	8.61
Top	10.30	9.17

0+67.5 - 8' Rt = ℄ P. pole

1+00

10 Lt.	9.51	9.96
℄	9.50	9.97

19.47 ✓

6' Rt. = gut.	9.50	9.97
Top cb.	9.09	10.38

1+37 = opp. 2'x1' Conc base for High tension conduit along P. pole. - just back of cb.

1+50

10 Lt.	8.00	11.47
℄	8.07	11.40
6' Rt. = gut.	8.16	11.31
Top	7.57	11.90
10.5 Rt = edge walk	7.48	11.99
15.5 " = " "	7.50	11.97

1+94 = low point in gutter

1+97 - 7.9' Rt = ℄ Crossing sign post 8"x8"

℄	6.23	13.24
6' Rt. gut	6.45	13.02
Top cb.	5.53	13.94

2+03 = W.L. California St. & end of cb. & A.C. Pave & walk & beg.

10' Lt.	5.40	14.07
℄	5.43	14.04
6' Rt. - gut	5.60	13.87
- Top cb - end.	5.17	14.30
10.5 Rt. - edge Walk - end.	5.03	14.44
15.5 " = " " "	4.86	14.61

19.47

Notes Reduced. 11-29-46

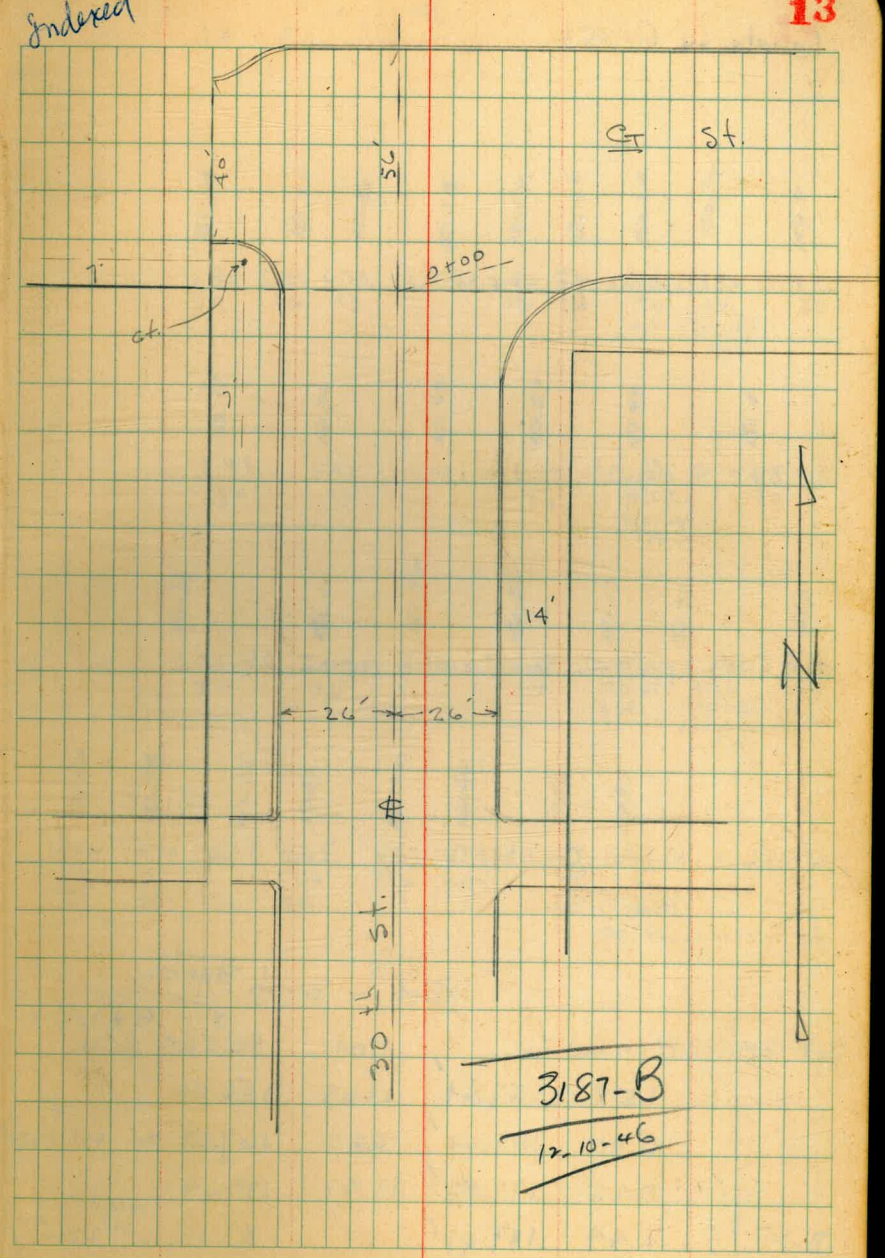
2+10 = Angle 4° 14' Rt.			
10' Lt.		5.13	19.34
℄		5.07	19.40
6" Rt.		5.05	19.42
10' Rt. on A.C. pave		4.78	19.69
18' Rt = edge pave		4.84	19.63
2+15 - 19' Rt. = ℄ P. pole			
2+51 = W. rail of W. track			
10' Lt. - on rail		3.37	16.10
℄ on rail		3.40	16.07
17' Rt. along rail edge pave		3.49	15.98 on rail
2+70 = E. rail of			
10' Lt. on rail		3.34	16.13
℄ " "		3.41	16.06
16 Rt. " "		3.45	16.02
2+75.15 = Wly. side of ℄ 3.5' x 1.8' box for grate inlet			
Top of Grate		3.18	16.29
Flow line box		5.20	19.27
T.P.	13.85 33.23	0.09	19.38
check B.M.		0.40	32.83

Levels for Sunken Curb on W. side
30th ± - G st. South.

11-12-46
Osborne
Hardin
Worrell
Smith

605
W.O. 208

Indexed



3187-B
12-10-46

Levels on G St.

0-10 = S. cb. Line G to W.

0-30 = ℄ G St.

0-50 = opp. E.C. Rev. Curve in cb. on Rt.

0-56 = N. cb. G St.

Post in Bench Book

Set BM.-B.P. on S.W. Cor.			7.09	150.55 ✓	G + 30th to South.
	1.58	157.64 ✓	11.63	156.06	
	0.40	167.69 ✓	10.60	167.29	inside cor. Ret. S.W. F & 30th
	0.25	177.89 ✓	11.43	177.64	
B.M.	1.44	189.07 ✓		187.63	N.W. B.P. 30th + E

Lt. = E. ℄ Rt. W.

151.24 · 151.22 · 151.31 · 151.28 · 151.12 · 150.64 · 150.24 · 150.72 · 149.4

6.40 50 · 6.42 26 · 6.33 13 · 6.36 · 6.52 13 · 7.00 26 · 7.40 40 gut. · 6.92 40 Top. E.C. Ret. · 8.2 50

152.17 · 151.74 · 151.64 · 151.57 · 151.44 · 150.4

5.47 50 · 5.90 26 · 6.00 · 6.07 26 · 6.20 40.2 = edge Conc. Pave · 7.2 50

152.33 · 152.00 · 151.72 · 151.55 · 151.17 · 151.79 · 151.0

5.31 50 · 5.64 26 · 5.92 · 6.09 26 · 6.47 40.6 gut · 5.85 40.6 Top = E.C. + edge pave · 6.6 50

152.80 · 152.34 · 152.36 · 151.99 · 152.02 · 151.66 · 151.45 · 151.97

4.84 50 Top. · 5.30 50 gut. · 5.28 26 Top · 5.65 26 gut. · 5.62 Top · 5.98 gut. · 6.19 25 gut · 5.67 25 Top cb.

P.C. Rev. curve in cb.

157.64 ✓

0+35

0+27

0+20 = opp. P.C. Ret. on Lt. + 36.3 Rt. = end porch + 39.6 Rt = S.E.Cor. House

0+16 – 28.2 Rt = ℄ 4" pipe guard

0+15

0+14.5 – 27.8 = Rt = ℄ F.H.

0+12.5 – 27.2 Rt = base of 4" pipe guard for F.H.

0+01.6 – 27.6 Rt = ℄ P. pole

0+00 – 36.3 Rt. = Beg. porch to house – 39.6 Rt = N.E. Cor. House

0+00 = S.L. G St. to W. = end walk on Rt.

0 – 64 = S. cb. G to E.

℄

Lt. Rt.

150.31	149.59	150.19	150.28	149.87	149.02	149.59	149.7	142.0
7.33	8.05	7.45	7.40	7.77	8.62	8.05	7.9	15.6
31	26	13		13	26	26	36	56
	in Dr.				gut.	Top.		

150.88	149.63	150.30	150.38	149.99	149.38	149.71	150.1	142.1
7.20	8.01	7.34	7.26	7.65	8.30	7.93	7.5	15.5
31	26	13		13	26	26	36	56
edge walk	in Dr.				gut.	Top		

150.36	149.88	150.43	150.56	150.15	149.61	149.82	149.7	150.85
7.28	7.80	7.21	7.08	7.49	8.03	7.82	7.9	7.19
26	26	13		13	26	26	36	39.6 = Floor Porch + House
Top cb. P.C. Ret.	gut.				gut.	Top	ground	

150.37	149.86	150.56	150.67	150.38	149.69	149.91	149.8	
7.27	7.78	7.08	6.97	7.30	7.95	7.73	7.8	
26.8	26.8	13		13	26	26	36	
Top cb. Ret.	gut.				gut.		ground	

150.81	150.37	150.56	151.02	151.00	150.76	150.13	150.55	150.74
6.83	7.27	7.08	6.62	6.64	6.88	7.51	7.09	6.90
37.2	37.2	26	13		13	26	26	35.5 = edge walk
Top cb. on Ret.	gut.					gut.	Top P.C. Ret.	

151.25	150.83	150.72	151.14	151.10	150.88	150.26	150.59	150.77	149.1
6.39	6.81	6.92	6.50	6.54	6.76	7.38	7.05	6.87	8.5
50	50	26	13		13	26.6	26.6	40	50
Top cb. P.C. Ret.	gut.					gut	Top		

157.64

1+20

1+00

0+97 - 40' Rt. = S.E. Cor. House - Conc. porch out to walk
Level

0+83 - 40 Rt. = N.E. Cor. small House

0+80

0+60

0+57 - 40' Rt. - S.E. Cor. House - Conc. Porch out to edge of walk

0+43 = 40' Rt. = N.E. Cor. small House

0+40 = Beg. walk on Rt.

Lt. ℄ Rt

1+20

Dist.	31	26 in Dr.	13	℄	13	26 gut.	26 Top	30.3	35.3 edge walk	40	55
Rod	8.90	9.65	9.16	8.99	9.37	9.82	9.26	9.07	8.96	9.4	14.2
Elev.	198.74	197.99	198.48	198.65	198.27	197.82	198.38	198.57	198.68	198.2	193.4

1+00

Dist.	31	26 in dr.	13	℄	13	26 gut.	26 Top	30.3	35.3 edge walk	40	55
Rod	8.36	9.13	8.65	8.49	8.79	9.46	8.93	8.84	8.67	8.6	17.5
Elev.	199.28	198.51	198.99	199.15	198.85	198.18	198.71	198.80	198.97	199.0	190.1

0+97: 40 – floor House: 7.81, 199.83

0+80

Dist.	31	26 in Dr.	13	℄	13	26 gut.	26 Top	30.3	35.3 edge walk	36	55
Rod	8.02	8.74	8.33	8.24	8.61	9.34	8.76	8.83	8.58	8.2	17.8
Elev.	199.62	198.90	199.31	199.40	199.03	198.30	198.88	198.81	199.06	199.4	139.8

Dist.	36	55
Rod	8.1	17.5
Elev.	199.6	190.1

0+60

Dist.	31	26 in dr.	13	℄	13	26 gut.	26 top	30.3	35.3
Rod	7.61	8.44	8.12	7.91	8.32	8.97	8.52	8.45	8.05
Elev.	150.03	149.20	149.52	149.73	149.32	148.67	149.12	149.19	149.59

Dist.	30.3 end + E. side walk	35.3 W. side	40 Floor of house + porch
Rod	8.36	8.08	8.01
Elev.	149.28	149.56	149.63

157.64 ✓

Check BM.			1.66	187.63	187.63
	10.58	189.29	0.48	178.71	
	11.90	179.19	0.45	167.29	
T.P.	11.68	167.74	1.58	156.06	

2+50

2+00

1+70 = S.L. Alley

1+60 = ℄ Alley

1+50 = U.L. Alley

1+48 - 40' Rt. = S.E. Cor. House - Conc. porch out to walk

1+34 = N.E. Cor. House

Notes Reduced 11-29-25

185.58
12.10
26
gut.

185.63
11.51
26
Top.

185.81
11.23
26
gut.

187.07
10.57
26
Top

187.00
10.64
26
gut.

187.67
10.02
26
Top

187.39
10.25
32.3

187.14
10.50
40

187.14
10.50
26

187.42
10.22
32.3

187.04
10.60
40

188.16
9.48
26
Top clo.
2' Rad. ret.

187.62
10.02
26
gut.

188.06
9.58
13

188.22
9.42

187.93
9.71
13

187.38
10.26
26
gut.

188.08
9.60
26
Top
2' Rad.
ret.

188.31
9.33
32.3
edge Conc.
Pav. to end
Alley Ret.

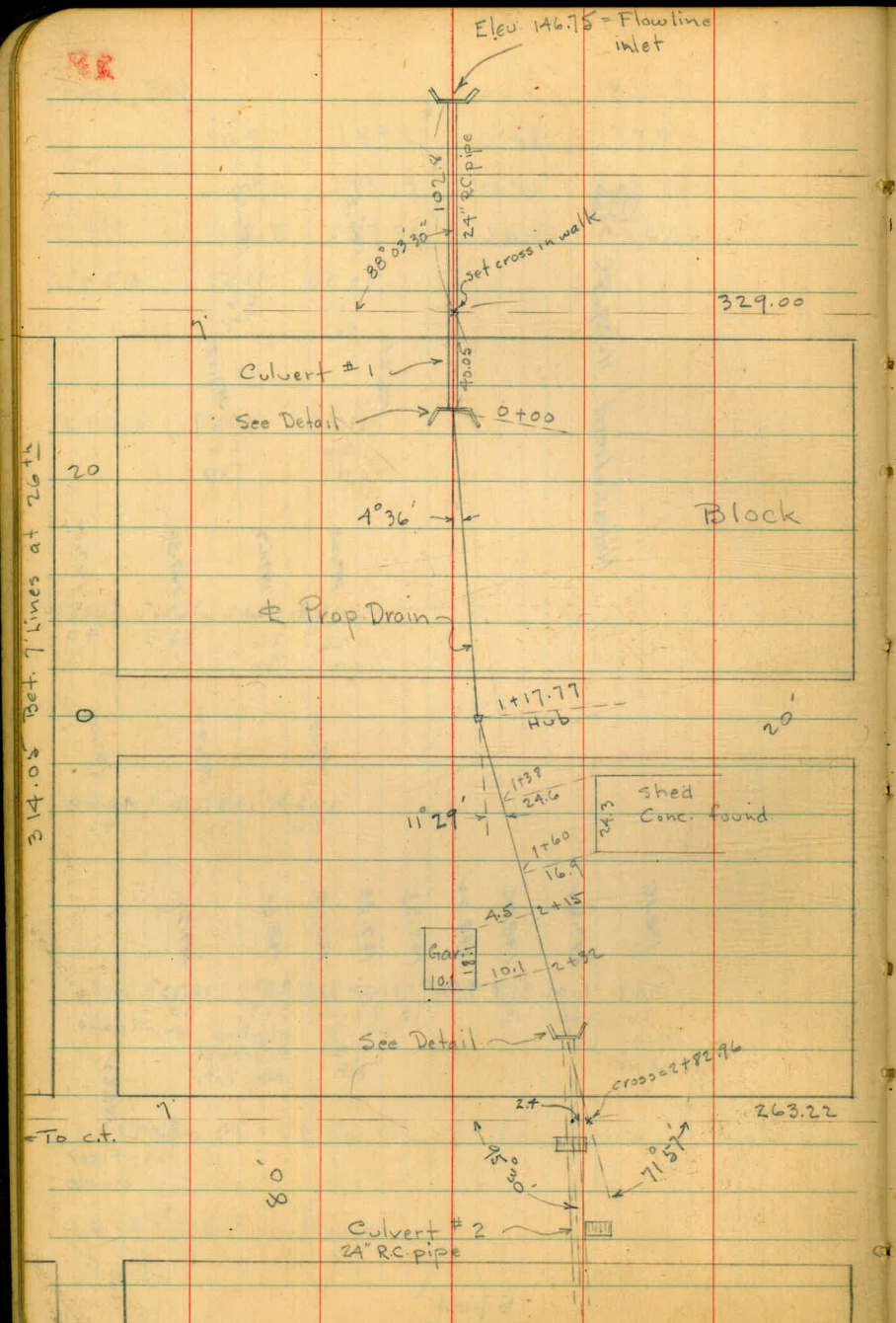
187.29
10.35
40
on oil pave

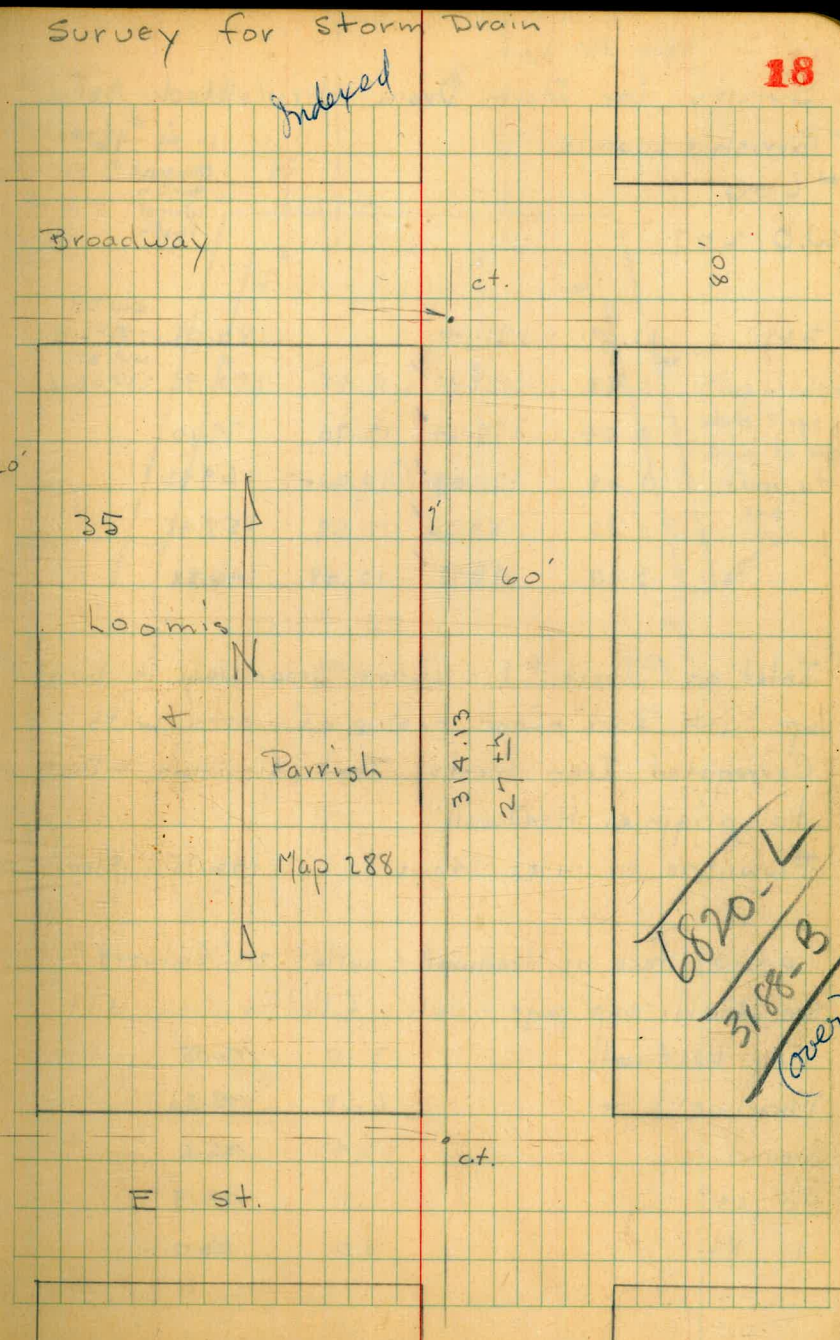
188.62
9.02
40 = Floor
House

157.64

Survey for Storm Drain

Indexed





6820-L
3188-B
(over)

18

Survey for Storm Drain thru Block 38

Parrish + Loomis. 11-14-46

#606 Osborne Hardin Worrell Smith

W.O. 207

BM.	11.39	191.40 ✓		180.01	S.W. B.P. 27th + E
	0.88	191.80 ✓	0.48	190.92	N.W. B.P. 27th + Bwdy.
	0.54	179.64 ✓	12.70	179.10	
	1.64	171.07 ✓	10.21	169.43	
	0.88	159.36 ✓	12.59	158.48	
	3.10	149.98 ✓	12.48	146.88	

Inlet of Culvert #1 - under Broadway is built up with Rock + Conc. rubble + Covered with Corregated Iron sheets. Took flowline + Dist. to originial Headwall

Flow line of inlet - 24" pipe 146.75 Elev. (?)

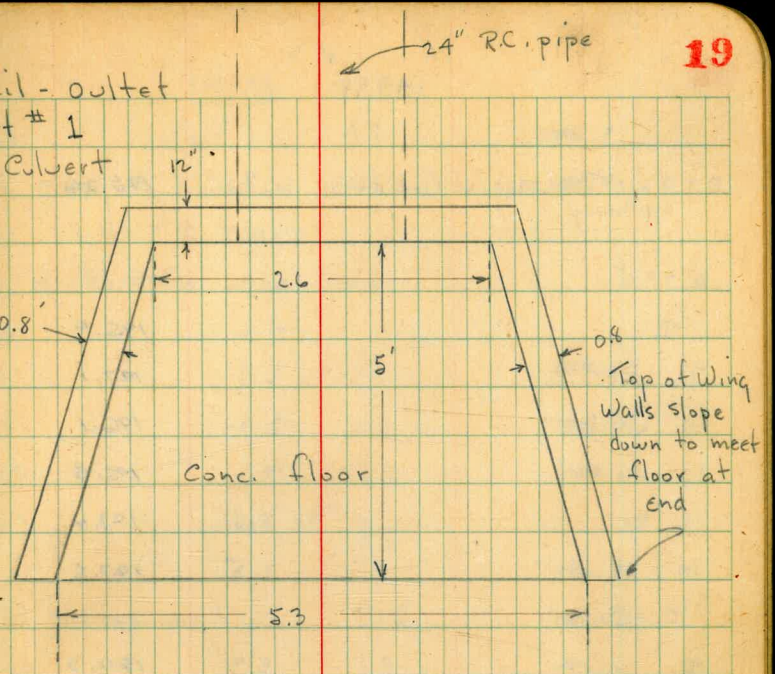
0+00 = face of Headwall - outlet 24" Culvert #1

See Detail - opp. page - Note: filled in with dirt.

Top Headwall	3.10	146.88
Flowline pipe	6.68	143.30
Ground	3.4	146.6
10' Lt.	1.7	148.3
10 Rt.	0.0	150.0

19

Detail - outlet Culvert # 1 + Inlet Culvert #2



149.98 ✓

0+05 - Top edge of Conc. floor spillway	6.72	143.26
0+25		
℄	4.6	145.4
7' Lt.	2.9	147.1
10' Lt.	3.9	146.1
15' Lt.	4.2	145.8
6 Rt.	2.6	147.4
10 Rt.	2.5	147.5
0+50		
℄	5.3	144.7
10' Lt.	5.1	144.9
5' Rt.	3.1	146.9
10' "	2.4	147.6
1+00		
℄	6.1	143.9
10' Lt.	6.5	143.5
10 Rt.	3.8	146.2
1+09 - 1.4 Lt. = inlet 24" steel Culvert		
Flow line	7.50	142.48
1+17.77 = Angle 11° 29' Lt. = ℄ Alley - oil strip		
℄ on Hub.	5.25	144.73
10' Lt.	5.2	144.8
50' Lt along ℄ Alley	3.5	146.5

149.98 ✓

10' Rt.	4.9	145.1
40' Rt. along ℄ Alley	1.6	148.8
1+24 - 8.8 Rt. - ℄ P. pole		
1+25 - 9' Rt. = Cor. wire fence		
1+30		
℄.	5.7	144.3
10' Lt.	5.0	145.0
10 Rt.	5.8	144.2
1+53 = 4.6 Lt. = outlet 24" pipe		
℄	7.3	142.7
4.6 Lt. = Flow line	9.15	140.83
10' Lt	7.8	142.2
10' Rt.	7.3	142.7
17.8 Rt. = Line wire fence	6.9	143.1
1+94 - 7.2 Rt. = Near Cor. low picket fence		
2+00		
℄	9.7	140.3
5' Lt.	9.4	140.6
15 Lt.	6.7	143.6
10' Rt.	8.3	141.7
T.P. 7.44	149.42 ✓	8.00 141.98
2+36		
℄	9.0	140.4
10' Lt.	7.0	142.4

149.42

2+36 Cont.

3' Rt.	9.9	139.5	
8.7 Rt. = Near edge Conc. foundatin	7.9	141.5	ground.
wall 6" wide	7.08	142.34	Top Wall
Conc. floor of Grar. on Rt. - shown in sketch			
	7.21	142.21	floor.
2+50			
℄	9.9	139.5	
10' Lt	7.4	142.0	
3' Rt.	10.0	139.4	
7 Rt.	7.5	141.9	
13.6 = Conc. wall	7.05	142.37	Top wall
2+66.9 = Edge of Spillway floor (See Detail P.19)			
℄ on Conc. edge	11.88	137.54	
℄ on Ground (filled in)	11.0	138.4	
6' Lt. = base loose Rubblewall	9.9	139.5	
6 Lt. = Top " " "	7.9	141.5	
10 Lt.	7.5	141.9	
2' Rt.	11.0	138.4	
10 Rt.	7.5	141.9	
2+71.9 = face of Headwall -- inlet 24" R.C. Culvert			
F.L. Pipe	11.90	137.52	
Top Headwall	8.19	141.23	

Flow line of Pipe at inlet (Grate ℄) on N. cb. of E. St. (see sketch) Note: Pipe in first - so just broke holes for Connection

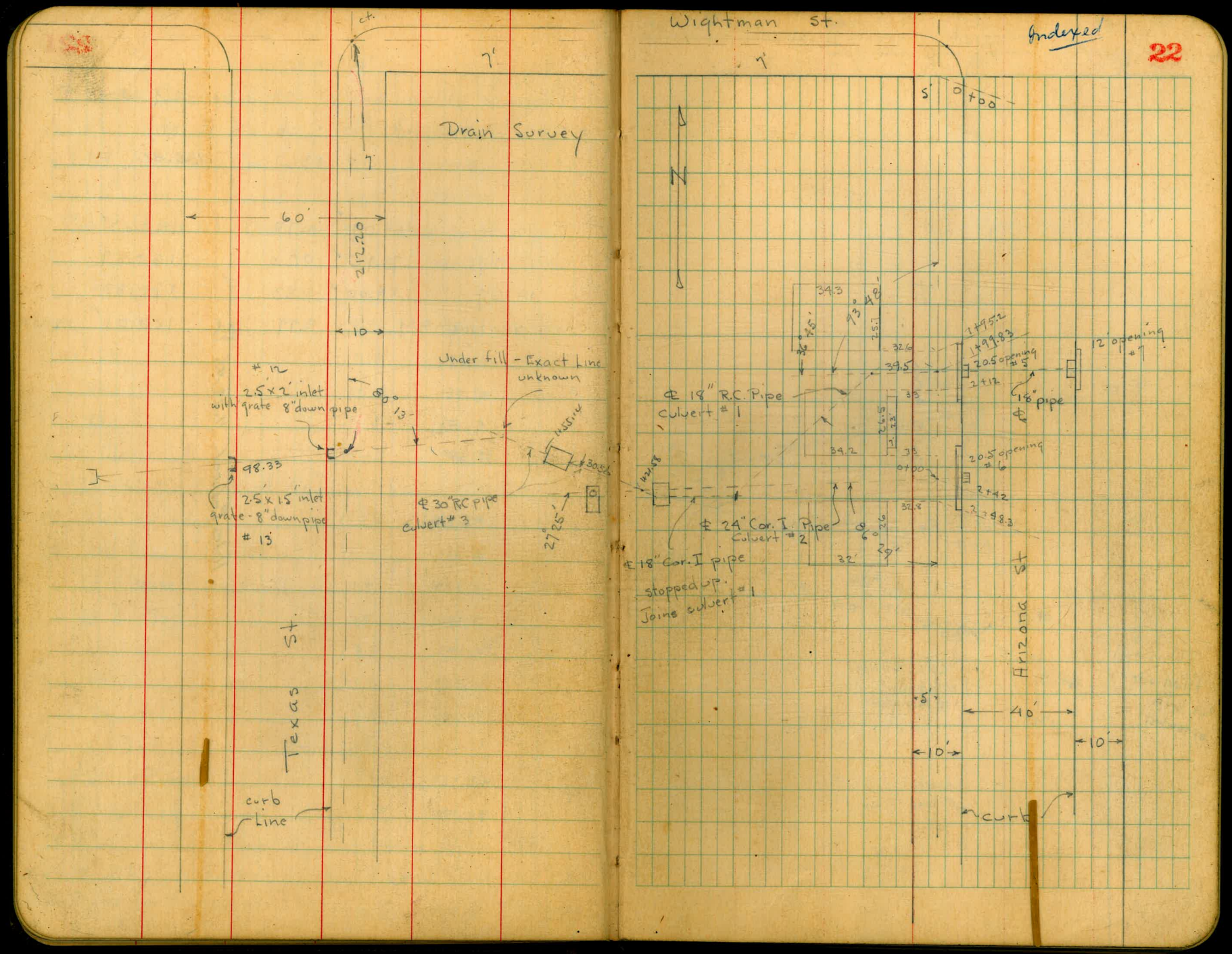
	12.25	137.17	F.L. pipe

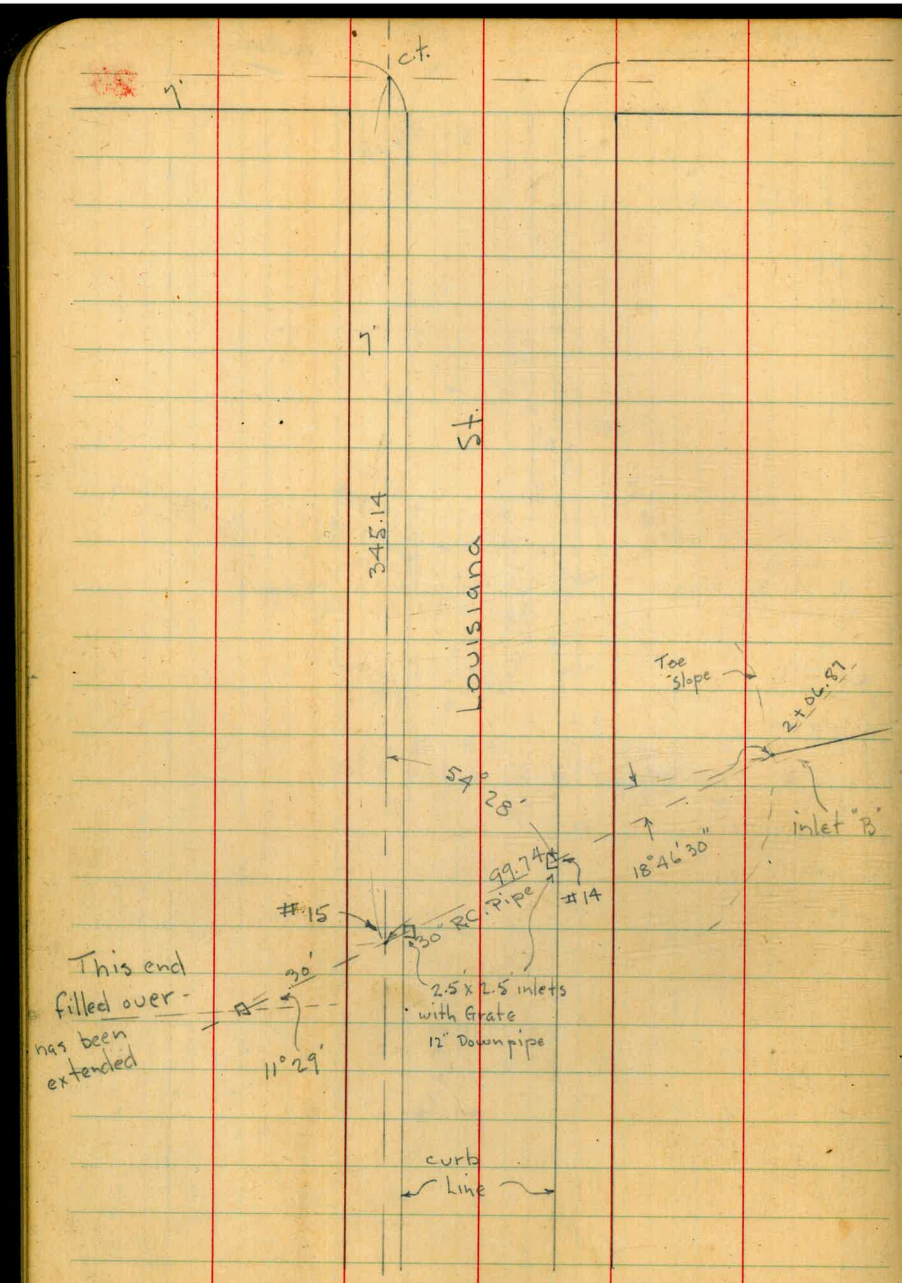
149.42

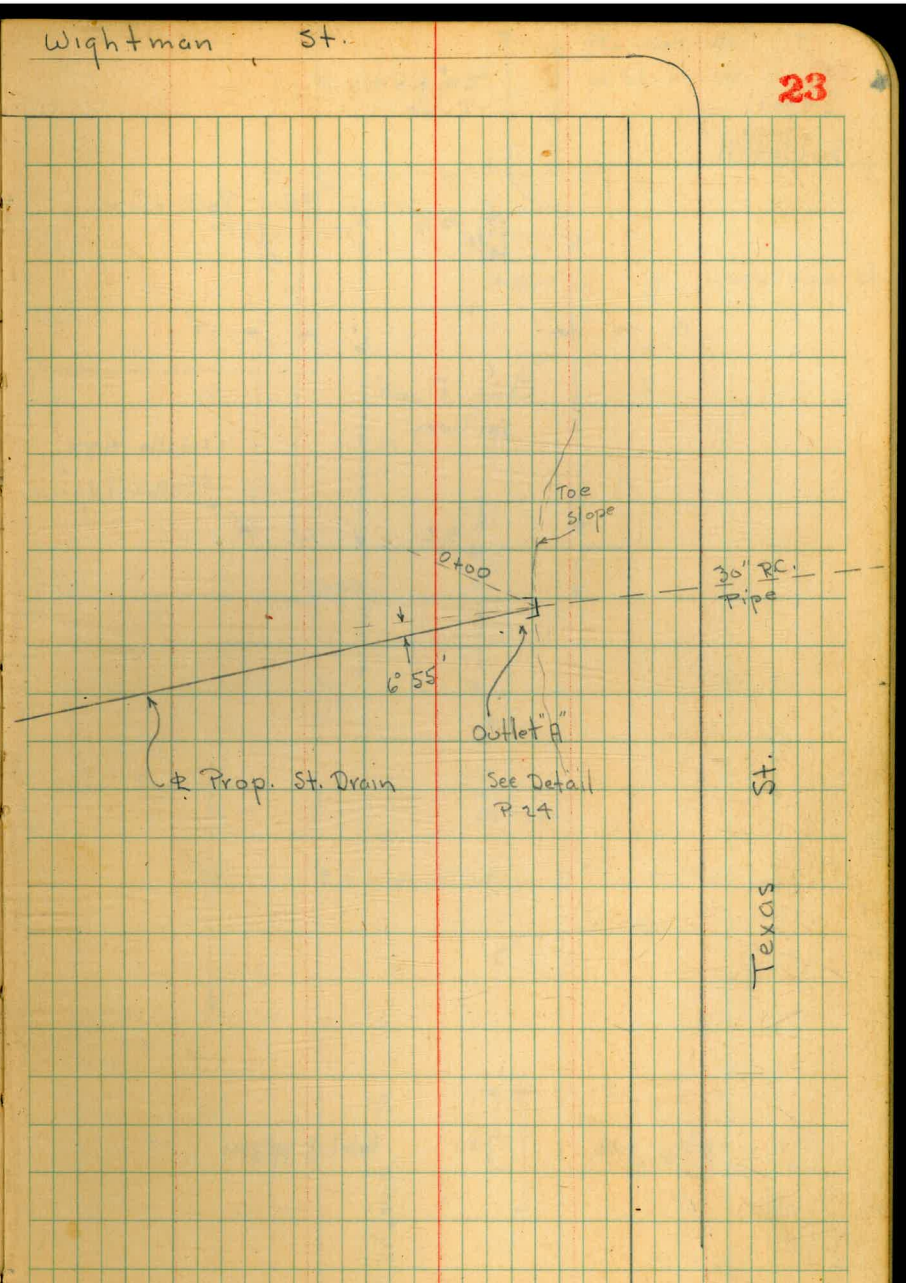
Approx. flow line of 24" pipe - 2.9' W. of ℄ 3.5' x 2' Grate inlet. (on S. cb. of E. St.)

	13.61	135.81	F.L.
T.P. 12.44	161.09 ✓	0.77	148.65
12.27	173.16 ✓	0.20	160.89
11.67	184.00 ✓	0.83	172.33
check Starting B.M.		3.99	180.01 ✓ 180.01

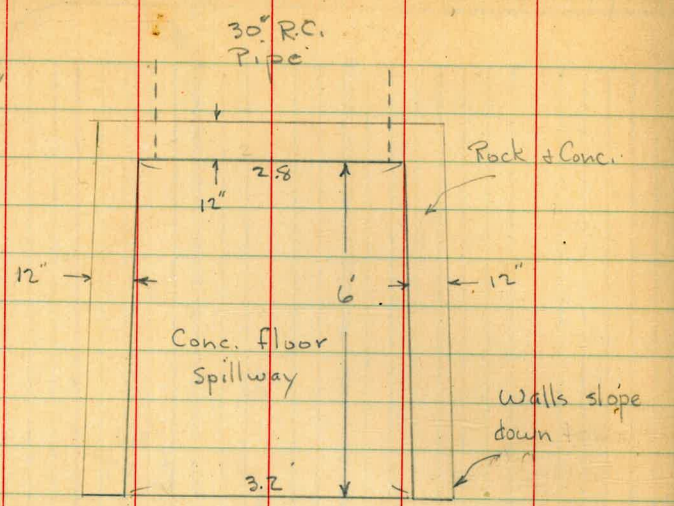
Notes Reduced. 11-29-86

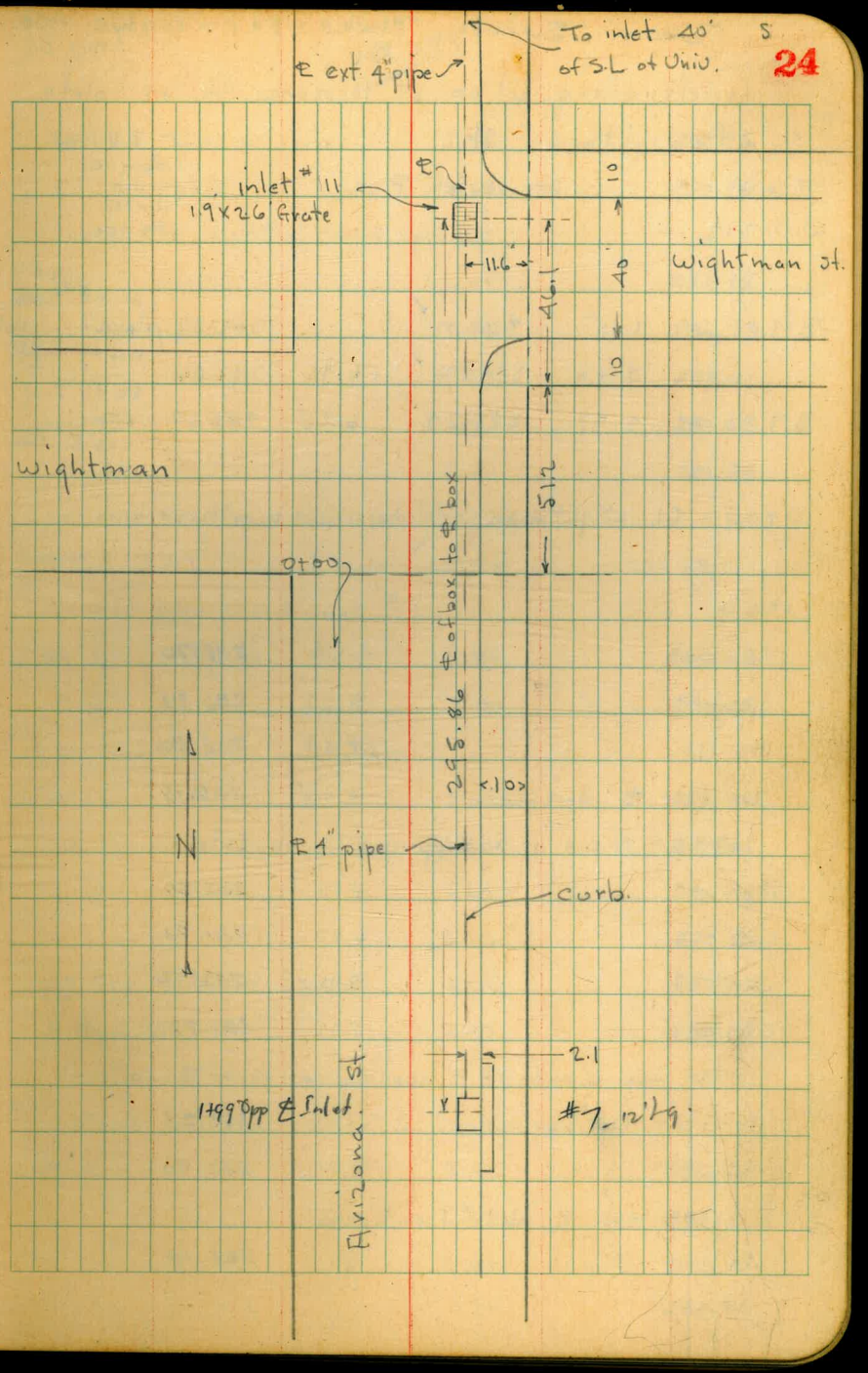

Drain Survey
Wightman St.
Underlined
22
7'
60'
217.20
10'
#12
2.5'x2' inlet
with grate 8" down pipe
98.33
2.5'x1.5' inlet
grate - 8" down pipe
#13
Under fill - Exact Line unknown
℄ 30" RC pipe
Culvert # 3
N55°W
30.5'
27°25'
Texas St.
curb line
Arizona St.
5'
40'
10'
curb
℄ 18" R.C. Pipe
Culvert # 1
℄ 24" Cor. I. Pipe
Culvert # 2
℄ 18" Cor. I pipe
stopped up.
Joins culvert # 1
20.5' opening #5
20.5' opening #6
12' opening #7
18" pipe ℄
34.3
93°48'
32.6
39.5
39.2
32.8
32'
29'
1+49.72
1+99.83
2+12
2+42
2+98.3
0+00
5'
0'
100'


c.t.
7'
7'
345.14
Louisiana St.
Toe slope
2+04.87
54°
28'
99.74
Pipe
#14
18°46'30"
inlet "B"
#15
30" RC
30'
11°29'
This end filled over - has been extended
2.5' x 2.5' inlets with Grate
12" Down pipe
curb Line


Wightman St.
Toe slope
0+00
30" RC Pipe
6° 55'
℄ Prop. St. Drain
Outlet "A"
See Detail P. 24
Texas St.

Detail
Outlet "A"





Drain Survey Blocks - 8 + 7 - Paulys Add. Map 65

Levels along W. cb of Arizona St. at inlets S. of Wightman St.

11-21-46
Osborne
Hardin
Worrell
Smith

#607

W.O. 212

see sketch P 22

B.M.	1.15	304.02 ✓		302.87	S.E. B.P. Texas + Landis - plug out took +.01 ch lead
	0.46	291.52 ✓	12.96	291.06	
B.M.	2.97	288.24 ✓	6.25	285.27	S.E. B.P. Landis + Arizona 285.31 = Book

0+00 = S.L. Wightman - face of curb is base line

1+50

Top cb	4.54	283.70
gut	5.27	282.97
10' Lt.	4.44	283.80
20' Lt. = ℄ Arizona	4.05	284.19

1+89.6 = N. end of 20.5 opening curb Inlet.

Top	5.85	282.39
gut	6.83	281.41
10' Lt	5.78	282.96
20' Lt.	5.25	282.99

1+93 = opp N. end of 12' opening inlet on E. cb

40' Lt. = Top cb.	5.03	283.21
40' Lt = gut.	5.84	282.80

1+99 = opp. ℄ inlet #7 on E. cb.

40' Lt = Top cb.	5.10	283.19

288.24

25

40' Lt. = gut. on grate	5.98	282.26
F.L. of box	8.08	280.16

1+99.7 = ℄ inlet #5 (20.5 opening)

Top	6.05	282.19
gut. on grate	7.46	280.78
F.L. box	9.23	279.01
10' Lt.	6.21	282.03
20' Lt.	5.51	282.73

2+02.3 = Beg. Conc. slab bet. Pb. & walk

T.P.	5.48	287.66 ✓	6.06	282.18

2+05 = opp. S. end inlet #7

40' Lt = Top cb.	4.58	283.08
" " gut.	5.40	282.26

2+10.1 = S. end Inlet #5

Top cb.	5.62	282.04
gut	6.66	281.00
10' Lt.	5.61	282.05
20' Lt.	5.06	282.60
2.7 Rt. = E. edge of 5.3 walk	5.62	282.04
8' Rt. = W. " " " "	5.47	282.19

2+10.7 = end Conc. slab.

2+31.8 = N. end Inlet #6 (20.5 opening

Top	5.46	282.20
gut	6.48	281.18
10' Lt	5.48	282.18
20 Lt.	491	282.75

287.66 ✓

2+31.8 Cont.		
27 Rt = E. edge walk	5.46	282.20
8 Rt. W. - " "	5.43	282.23
2+42 = ℄ Inlet # 6		
Top cb.	5.46	282.20
gut. on Grate	6.66	281.00
F. L. box	8.45	279.21
10' Lt.	5.50	282.16
20 Lt.	4.82	282.84
27 Rt. = E. edge walk	5.40	282.26
8' Rt. = W. " "	5.35	282.31
2+52.3 = S. end opening # 6		
Top cb.	5.35	282.31
gut.	6.34	281.32
10' Lt	5.44	282.22
20' Lt = on Sewer M.H.	4.68	282.98
2+75		
Top cb	5.17	282.89
gut.	6.01	281.65
10' Lt	5.09	282.57
20 Lt.	4.55	283.11
3+00		
Top cb.	4.94	282.72
gut.	5.68	281.98
10' Lt.	4.88	282.78
20' Lt.	4.40	283.26

end.

Levels on line of 24" Corregated Iron pipe - culvert # 2 in sketch. also ℄ for proposed new culvert (base line for levels) Note: ext. pipe bends to the north in the middle - not straight thru.

287.66 ✓ - opp Page

0 - 4.93 = face of cb. at ℄ of inlet # 6		
Top cb.	5.46	282.20
gut. on Grate	6.66	281.00
F.L. box	8.45	279.21
0 - 02.2 = E. edge walk		
℄ on walk	5.40	282.26
0+00 = W. 5' Line Arizona (see sketch.)		
℄	5.36	282.30
10' Lt. on walk	5.30	282.36
10' Rt. on walk	5.43	282.23
0+03 = W. edge walk	5.32	282.34
0+15		
℄	5.0	282.7
10' Lt	5.0	282.7
10 Rt	5.1	282.6
0+22.8 - 42 Rt. = Cor. 3½" Conc. curb for border		
Top cb	5.06	282.60
0+30.9 - 2.3 Lt. = beg. Cor. 2' Conc. walk along house		
Cor. walk	5.47	282.19

287.66

0+32.7 – 5.9 Rt. = S.E. Cor. House			
Floor elev.		3.77	283.89
0+33.2 – 4.2' Lt. = N.E. Cor. House			
Floor elev.		4.67	282.99
0+36.1 = Cross picket fence + Solid Conc. slab bet. Houses			
℄ Top slab		5.82	281.84
5.3' Rt. = N. side slab at cb.		5.50	282.16
3.9 Lt. = Slab. 2' Conc. walk along house + end		5.53	282.13
0+36.6 – 5.2 Rt. = end 3½" cb. at Brick chimney			
Top end.		4.99	282.67
0+43.2 = 1.5 Rt. = ℄ inlet 3" drain pipe in slab			
℄ on Conc. slab		7.30	280.36
1.5 Rt. = F.L. drain		7.74	279.92
0+44.5 = Point of roll down in slab.			
℄		7.12	280.58
3.8 Lt. = slab along house		6.79	280.87
6.6 Rt. = " " "		6.86	280.80
T.P.	3.47	282.38	8.75	278.91
0+46.8 = end Solid slab			
℄		3.14	279.28
1' Lt. = beg. Conc. slab along House		2.87	279.51
3.6 Lt. = slab at House		1.80	280.58
4.1 Rt. = beg. Conc. slab along House		3.47	278.91
6.8 Rt. = slab at House		2.26	280.12

282.38

0+51.2 – 2' Lt. = end Conc. slab.		
2' Lt. = slab	3.32	279.06
3.2 Lt. = " at House	2.32	280.06
0+55		
℄	4.2	278.2
0+65.7 – 2.4 Lt. = N.W. Cor. House + beg. 1' Rock wall		
℄	4.4	278.0
2.4 Lt. Ground at House	4.1	278.3
Floor elev. of basement.	7.2	275.2 Dirt floor
2.4 Lt. = Top wall	2.60	279.8
5.7 Rt. = edge of jog in slab.	4.25	278.13
8' Rt. slab at House	3.94	278.44
0+66.4 – 4' Rt. = Edge slab.	4.43	277.95
0+67.4 – 8.1 Rt. = S.W. Cor. House		
Floor elev. Basement – dirt floor.	6.69	275.69
0+69 – 5' Rt. = beg. Conc. Ret. wall 8" on top with wire fence		
℄	4.8	277.6
1.6 Lt. = base wall	4.8	277.6
Top wall	4.12	278.26
2.6 Lt. = ground at wall	6.2	276.2
10' Lt.	6.4	276.0
5' Rt. = base wall	4.8	277.6
Top wall	3.12	279.26
10' Rt.	3.9	278.5

282.38 ✓

0+80 - 1.9 Rt. = ℄ of Top 24" Cor. pipe (shows curve to N.)		
℄	5.8	276.6
1' Lt. = base wall	5.8	276.6
Top "	3.75	278.63
2' = base wall	6.1	276.3
10 Lt.	6.3	276.1
1.9 Rt. = Top pipe	6.10	276.28
5.9 Rt. = base wall	5.9	276.5
Top "	4.08	278.30
7' Rt. =	4.5	277.9
0+86 - 1.4 Rt. = ℄ Conc. slab over pipe at joint		
1.4 Rt. = Top slab	5.96	276.42
0+91 - 0.5 Lt. = end Rock wall		
0.5 Lt. = base wall	6.4	276.0
Top "	5.31	277.07
1+00		
℄	6.5	275.9
10' Lt.	6.7	275.7
7.3 Rt. = base wall	6.6	275.8
Top wall	4.09	278.29
1+01.3 - 2.4 Lt. = Cor. 5.5 Arbor. (2 x 4 posts.		
1+13 - 1' Lt. = Cor. Arbor.		
1+18.5 - .6 Lt. = ℄ of CI Cover to #8 cleanout M.H. - 40" x 40" inside		
0.6 Lt. = Rim of M.H.	7.46	274.92
F.L. of Box	10.71	271.67

282.38 ✓

1+21.58 = Ang. 27° 25' Rt. to ℄ 30" culvert # 3		
℄	7.5	274.9
10' Lt. on split	7.8	274.6
8.8 Rt. " " = base wall	7.3	275.1
" = Top "	4.12	278.26
1+36.8 = Cross wire fence		
1+39.5 - 4.1 Lt. = ℄ of 1' down drain in N. end of 5' x 2' Conc. box with Heavy wire Cover - fastened on. #9		
4.1 = Top grate	9.59	272.79
1+40 - 1.5 Rt. = end + Cor. Conc. wall		
℄	8.6	273.8
3' Lt. = Conc. edge of inlet	9.60	272.8
10' Lt. "	9.4	273.0
1.5 Rt. = base wall	8.4	274.0
" Top wall	4.20	278.18
1+45		
℄	8.3	274.1
2' Lt. = ℄ ditch	9.5	272.9
3' Lt.	8.5	273.9
10' Lt.	8.3	274.1
4' Rt.	5.8	276.6
10' Rt.	6.0	276.4
1+48 = ℄ 4" steel pipe		
℄ on Top pipe	9.10	273.28

282.38 ✓

1+52.14 = Edge of 36" x 30" Conc. box inlet with Grate on top. - Rock & Conc. Wing walls + Head wall Vertical around opening

℄ Top grate - ℄ E. edge		9.81	272.57
F.L. box		12.66	269.72
1.25 Lt. = grate at base wing wall		9.81	272.57
" " Top wing wall		5.65	276.73
10' Lt.		5.9	276.5
1.25' Rt. = grate at base wall		9.81	272.57
" " Top wing wall		6.40	275.98
10' Rt.		6.1	276.3

1+55.14 - W. edge box + face Head wall

℄ on grate		9.82	272.56
" on top Head wall		5.28	277.10
T.P. 12.75	295.08 ✓	0.05	282.33
6.39	300.81 ✓	0.66	294.42
0.64	296.01 ✓	5.44	295.37
1.20	284.78 ✓	12.43	283.58
2.92	275.08 ✓	12.62	272.16

11-22-46
70.

29

Levels for Prop. Drain Between Texas + Louisiana - S. of Wightman - See sketch P 23

275.08 ✓ - opp. page

0+00 = ℄ Face of Headwall = ℄ outlet "A" of 30" culvert under Texas.

Top ℄ Headwall	8.84	266.24
F.L. Pipe + floor spillway	13.57	261.51
0+06 = edge of wingwalls + spillway		
℄ - on edge of Conc.	13.83	261.25
1.6 Rt. = Top end of wingwall	12.24	262.84
10' Rt.	9.4	265.7
1.6 Lt. =	12.43	262.65
10' Lt. Top end wingwall	9.1	266.0

Note: Seems to be a slab of Conc. about 4' ahead of edge - under water Cant locate

0+10 = apparent top of Conc. Slab.

℄	13.97	261.11
0+15		
℄	11.8	263.3
10' Lt.	10.2	264.9
10' Rt.	9.8	265.3
0+50		
℄	10.2	264.9
10' Lt.	11.4	263.7

275.08 ✓

0+50 Cont.

4' Rt. = ℄ Ditch	13.3	261.8
10' Rt.	10.6	264.5
0+90		
℄	11.8	263.3
10' Lt.	11.9	263.2
5' Rt.	11.2	263.9
10' Rt. = ℄ ditch	13.7	261.4
20' Rt.	12.4	262.7
1+10		
℄	12.2	262.9
10' Lt	12.6	262.5
4' Rt = ℄ ditch	12.6	262.5
8' Rt - Toe of Fill	12.1	263.0
15 Rt. - on New Lot fill	8.9	266.2
1+40		
℄	10.6	264.5
10' Lt.	9.4	265.7
5' Rt. = ℄ Ditch	13.3	261.8
7' Rt. = Toe fill	12.5	262.6
15 Rt.	5.1	270.0
1+75		
℄	12.2	262.9
10' Lt.	10.4	264.7
4' Rt = ℄ ditch	14.2	260.9
8 Rt. toe fill	12.5	262.6
15' Rt. on fill	6.7	268.4

Notes Reduced - 11-29-86

275.08 ✓

1+95		
℄	11.8	263.3
10' Lt.	9.0	266.1
4' - Rt = ℄ ditch	15.7	259.4
7' Rt = toe fill	14.5	260.6
15 Rt	9.4	265.7
2+06.87 = Inlet "B" = end 30" R.C. pipe (no wingwalls or Headwall)		
Flow Line pipe	17.60	257.48
10' Lt.	9.7	265.8
10 Rt.	9.9	265.2
T.P. 12.65 286.52	12.1	273.87
Check B.M. S.E.BP. Landis & Louisiana	0.60	285.92 ✓ 285.88 Bench book

276
P594
15

Add. Notes for Inlets - pipes etc. + walks on Arizona St.

B.M.	4.08	289.35	285.27 S.E. Landis + Arizona

F.L. of 18" pipe in Inlet #7 - 2.5 out from cb.

F.L. + Bottom of box	9.20	280.15
F.L. 4" Conc pipe from N.	8.73	280.62

F.L. of Outlet of 18" Pipe from #7 to #5

F.L. pipe - 1.9 out from cb face	10.30	279.05

Inlet #7 Grate on opening is 4' long (along cb) and 2.3' wide (grate in 2 sections 2'x2.3)

Inlet # 5 - Grate is 3.4 long (along cb) and 2.4' wide (in 2 sect. 1.7 x 2.4)

Inlet #6 - Grate - 4.9' long x 2.8' wide (2-sect. 2.45'x2.8)

Elev. of E. edge of Sidewalk on W. Side of Arizona - adjacent to Inlet # 6
Same Sta. + baseline as previous notes on P 25'
+ 26 - edge of Walk 2.7' from face of cb.

1+89.6 - edge walk 2.7 Rt	7.01	282.38	

7.0.
12-26-46

289.35

2+00 - 2.7 Rt. = Low point	7.38	282.00
2+02.3 " "	7.33	282.02
2+10.7 " "	7.33	282.02
2+20 = Top cb	7.29	282.06
2.7 Rt = low point	7.31	282.04
2+52.3 - 2.7 Rt.	7.00	282.35
2+75 - " "	6.75	282.60
3+00	6.55	282.80
T.P. 8.81 293.70	4.46	284.89
F.L. 4" pipe + Box Inlet # 11	4.63	289.07
F.L. 4" pipe to N.	4.66	289.04

F.L. + Grate elev. of Inlets # 12 + 13 on Texas st.

B.M.	2.77	305.64 ✓	302.87	S.E. Texas + Landis

Top Grate in gut. Inlet # 12 on E. side of Texas

Top grate		11.41	294.23
flow line pipe		41.93	263.71

Inlet # 13 on W. side

Top Grate		12.76	292.88
flow line pipe		42.85	262.79
B.M.	1.14	287.02 ✓	285.88

S.E. Landis + Louisiana

Inlets # 14 + 15 on Louisiana

Inlet # 14 on E. Side

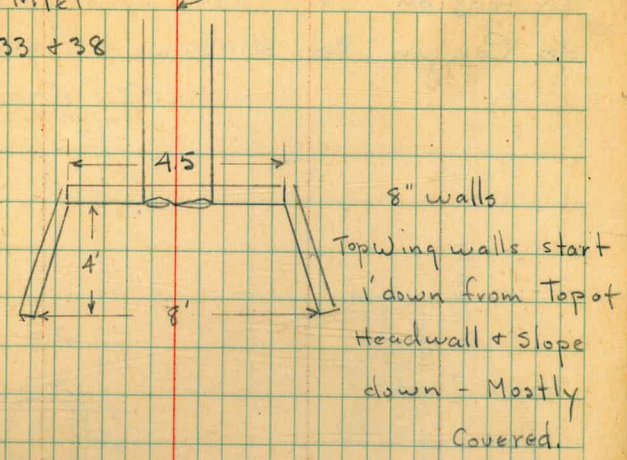
Top Grate - gut.		11.45	275.57
flow line pipe		31.37	255.65

Inlet # 15 on W. Side

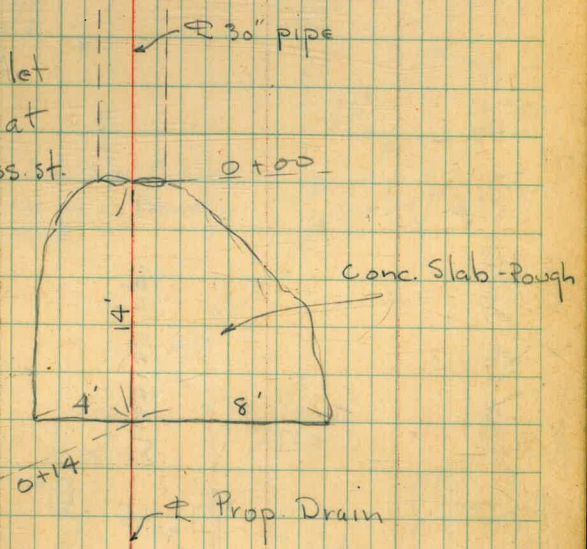
Top Grate in gut.		12.30	279.72
flow line pipe		32.50	259.52
T.P.		12.03	294.99 ✓

on Rock

Detail of inlet
Sta. 1+19.85 - P 33 + 38



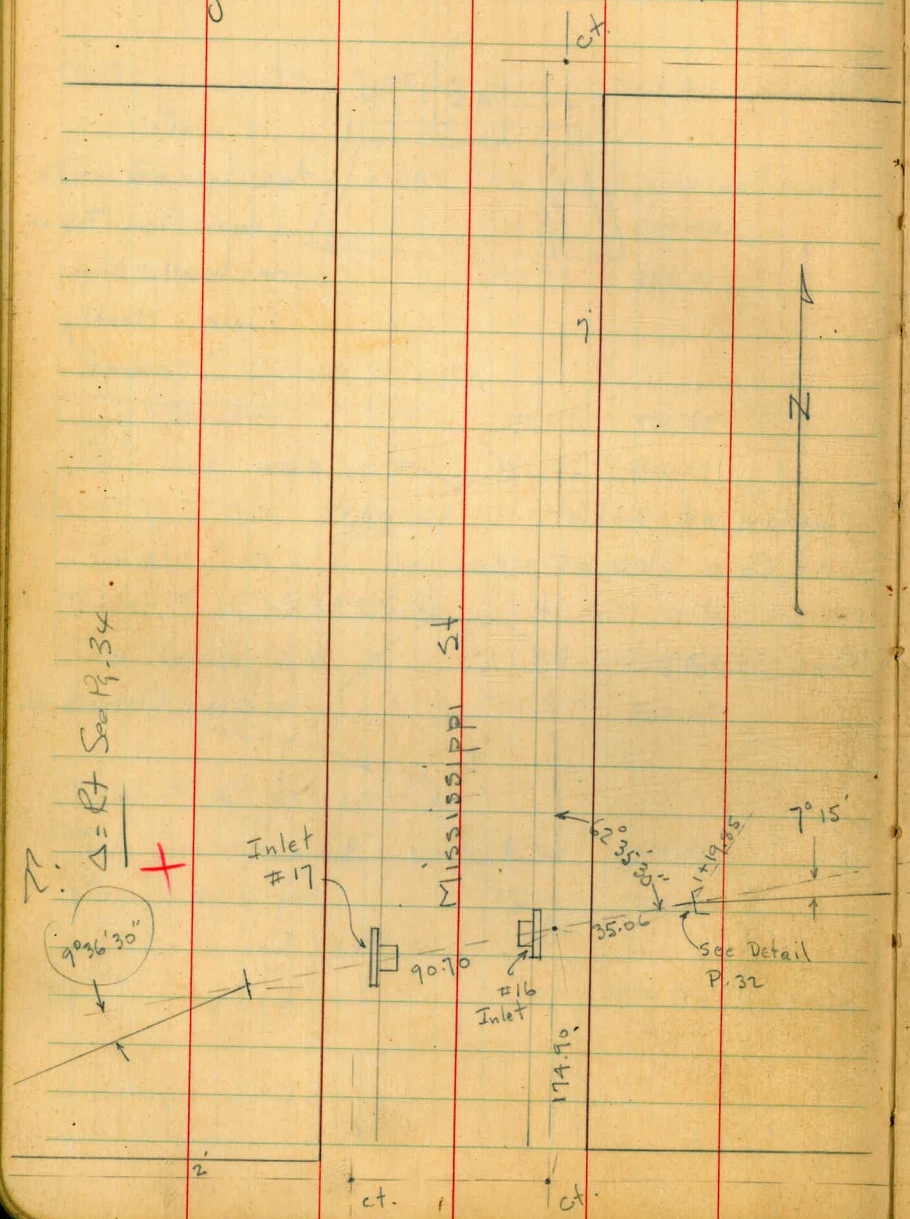
Detail of Outlet and Conc. Slab at 0+00 - W. of Miss. st.
Page - 34 + 39

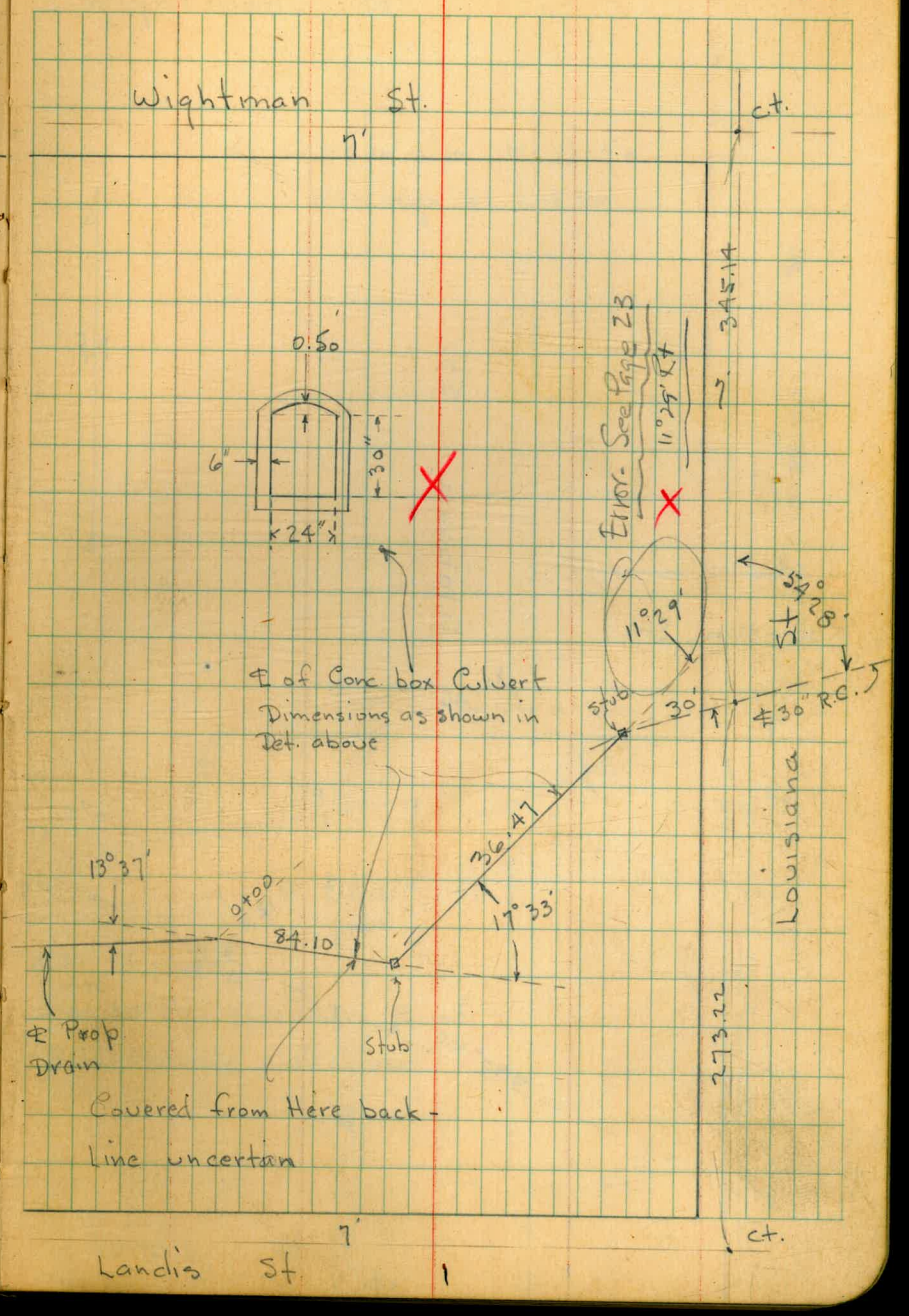


12-26-46
7.0.

indexed
C.S.K.

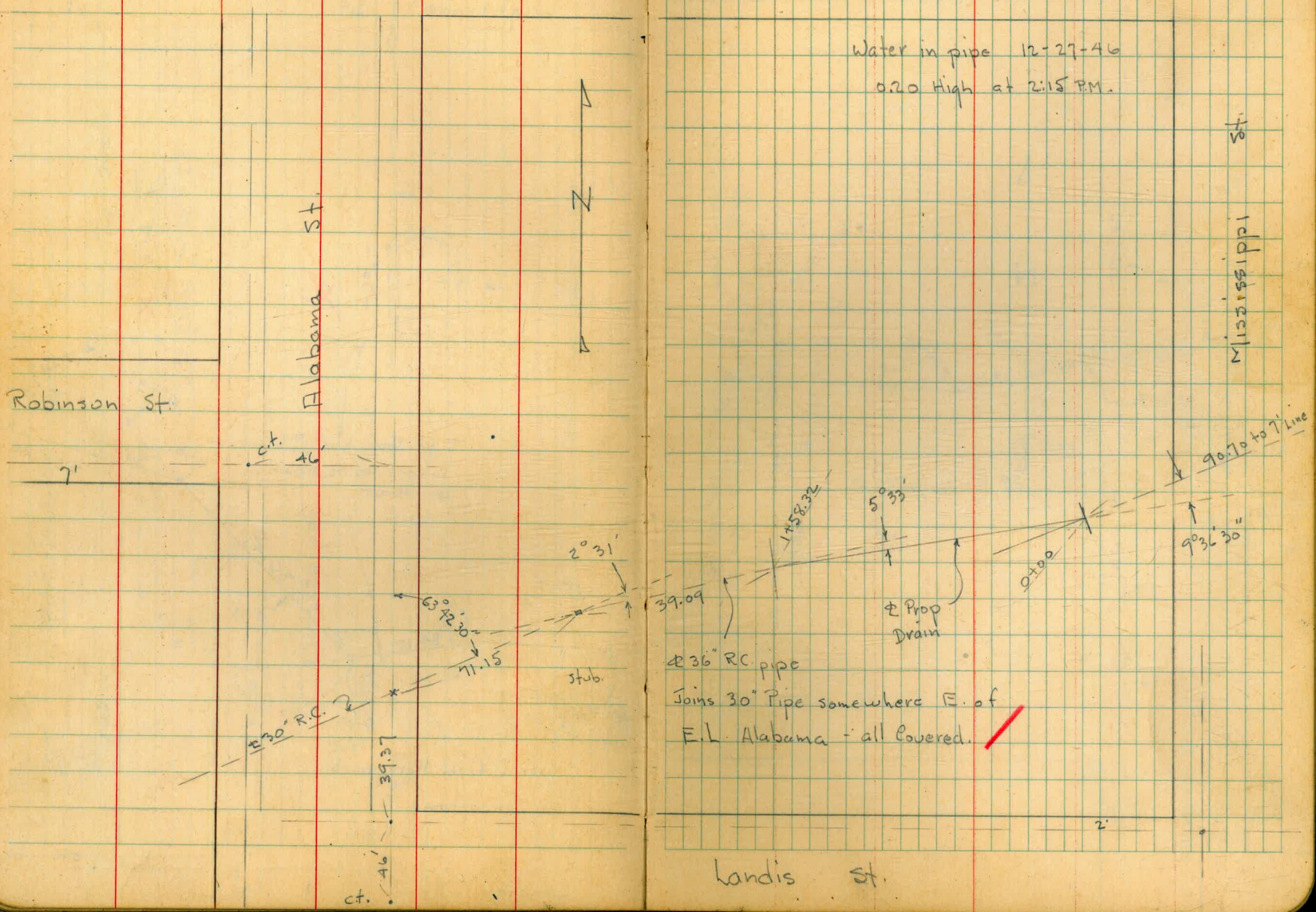
Extension of Drain Survey from Louisiana to Canyon Bet. Alabama & Floridia.





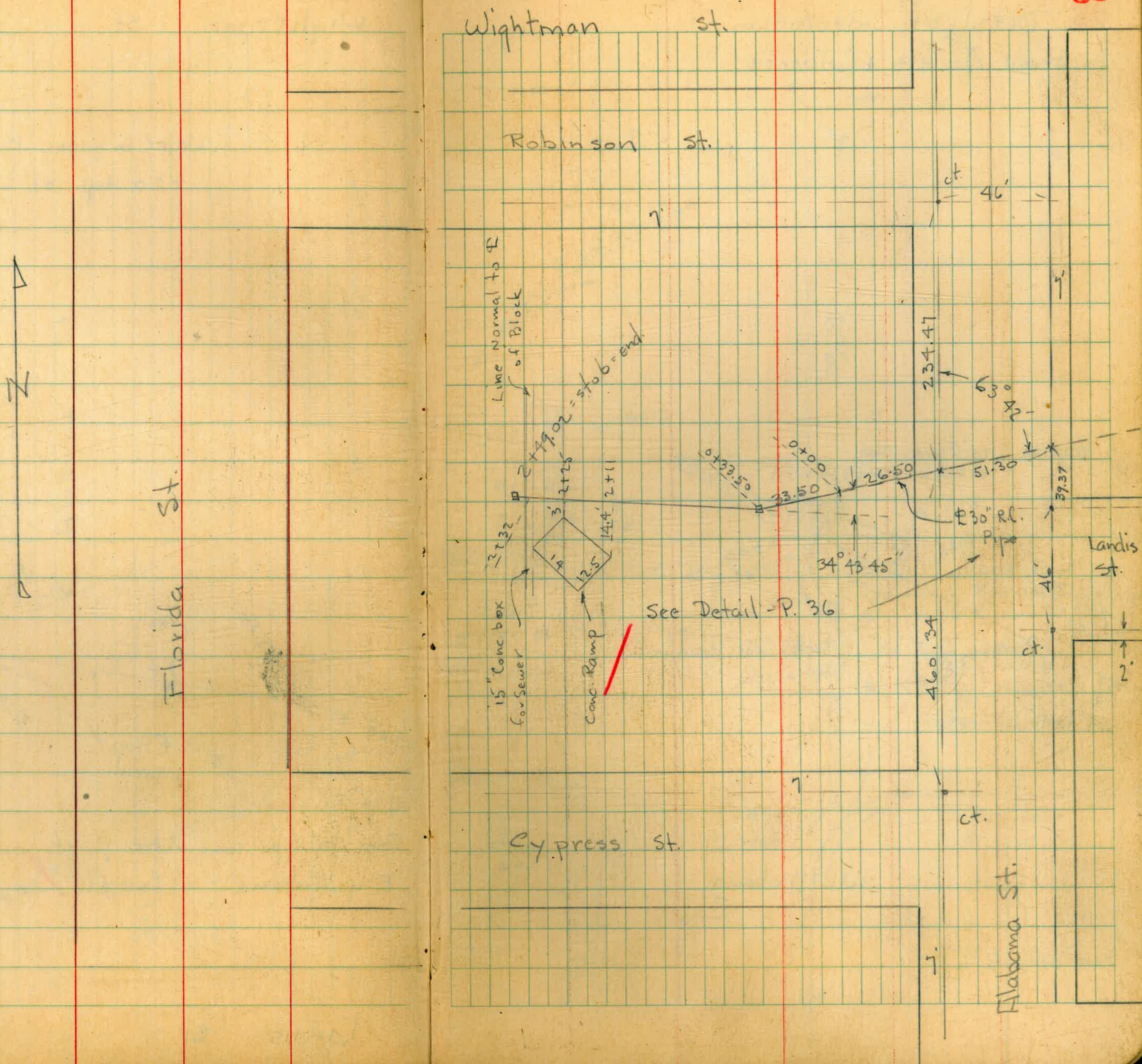
Wightman St.

Water in pipe 12-27-46
0.20 High at 2:15 P.M.

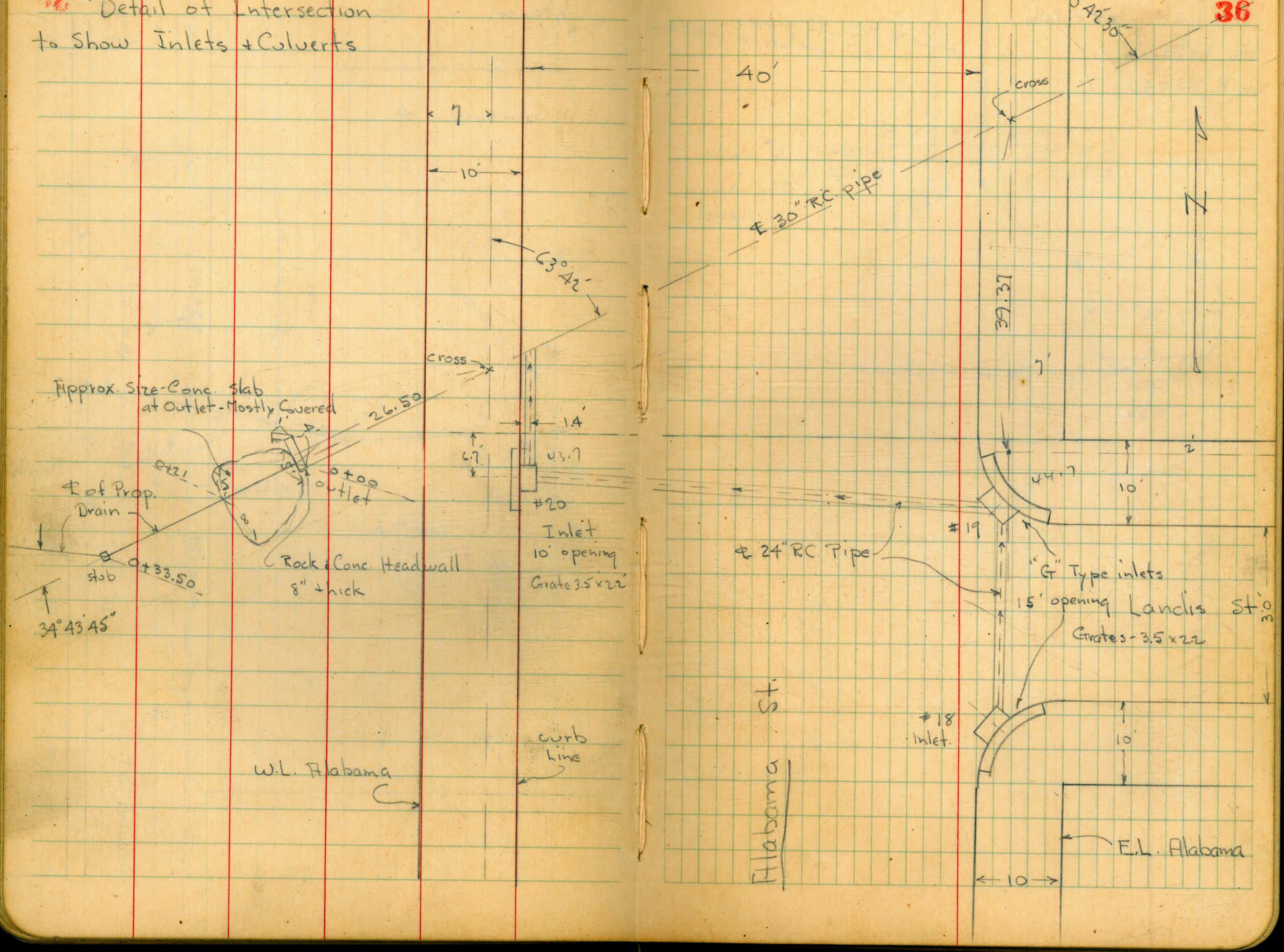


7.0

12-27-46


N
Florida St.
Wightman St.
Robinson St.
Cypress St.
Alabama St.
Landis St.
Line Normal to ℄ of Block
2+49.02 = sta 6 = end
2+25
2+11
2+32
3'
14
12.5
14.4'
15" Conc box Cov. Sewer
Conc. Ramp
See Detail - P. 36
0+33.50
0+00
33.50
26.50
51.30
39.37
℄ 30" R.C. Pipe
34° 43' 45"
63°
234.47
460.34
46'
ct.
7'
5'
2'

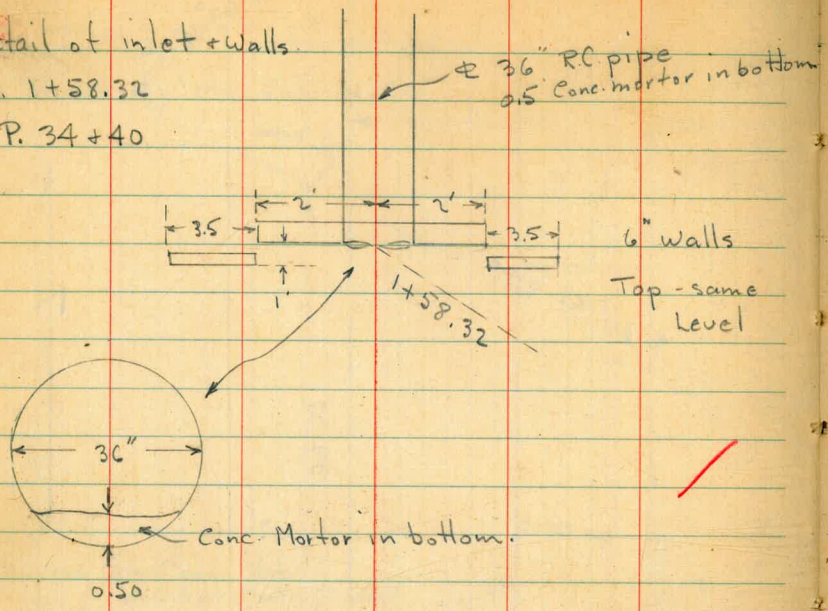
Detail of Intersection to Show Inlets + Culverts



Detail of inlet + walls

Sta. 1+58.32

See P. 34 + 40



Levels on Prop. Drain Bet. Louisiana & Mississippi.

T.P. P.32	1.48	276.47		274.99
	0.35	263.80	13.02	263.45
	2.98	257.93	8.85	254.95

0+00 = Outlet of Private built Box Culvert - See Page 33

℄ = F.L. Culvert	7.02	250.91
6' Lt.	6.4	251.5
10 Lt.	4.3	253.6
10 Rt.	5.3	252.6
0+30		
℄	6.4	251.5
5 Lt. = ℄ ditch	6.9	251.0
10 "	6.0	251.9
10 Rt.	6.1	251.8
0+80		
℄	7.1	250.8
2' Lt. = ℄ Ditch	8.7	249.2
4 "	7.1	250.8
10' Lt.	6.5	251.4
20 "	7.6	250.3
6 Rt. = Toe slope	6.6	251.3
20 " - on fill	+ 3.1	261.0

12-30-46
7.0.

257.93

0+80		
℄ = Toe fill	7.3	250.6
5' Lt. = ℄ Ditch	9.4	248.5
9 Lt.	7.5	250.4
15 "	8.2	249.7
15 Rt	+ 0.5	258.4
1+05		
℄ = Toe fill	8.7	249.2
5' Lt.	10.6	247.3
10 "	8.2	249.7
15 "	8.0	249.9
5 Rt.	6.6	251.3
15 "	0.5	257.4

1+19.85 = Inlet of 30" RC. pipe & face of Headwall — Detail - P. 32

℄ = flow line 30" pipe	12.04	245.89
℄ Top of Headwall	8.35	249.58
10' Lt.	6.9	251.0
10' Rt.	3.2	254.7
T.P. 12.68	270.39	0.22	257.71

Levels on Inlet #16 on E. curb of Mississippi

6.2 opening - 24 x 2.5' grate - 12" pipe down to 30" Pipe

F.L. 30" pipe	25.46	245.03
Top Grate in gut	4.90	265.49

270.39 ✓

Levels on Inlet # 17 - on W. curb Miss. St.
Same Dimensions as # 16

F.L. 30" Pipe			26.83	243.56
Top. Grate in Gut		✓	5.51	264.88
T.P.	1.46	258.85	13.00	257.39
	3.14	249.31 ✓	12.68	246.17

Levels on Prop Drain - Bet. Mississippi + Alabama St.
0+00 = Outlet of 30" Pipe on W. side of Miss St.
for Detail of Conc. Slab See P 32

℄ on F.L. 30" pipe	6.66	242.65
10' Lt.	1.3	248.0
2' Rt. = edge of Conc. Slab	6.5	242.8
6' Rt.	3.4	245.9
10 "	2.5	246.8
0+14 = end Conc Slab		
℄ - on Slab	7.56	241.75
8' Lt. = edge Conc.	7.32	241.99
15 "	4.5	244.8
4' Rt. = edge Conc.	7.26	242.05
15 "	2.5	246.8
0+25		
℄	7.5	241.8

249.31 ✓

5' Lt. = ℄ Ditch	7.7	241.6
10 "	6.7	242.6
15 "	5.7	243.6
6' Rt.	3.5	245.8
10 "	2.4	246.9
0+40		
℄	6.3	243.0
7' Lt. = ℄ Ditch	8.7	240.6
10 "	7.9	241.4
20 "	5.6	243.7
3' Rt.	4.7	244.6
20' Rt.	2.8	246.5
0+70		
℄	8.3	241.0
4' Lt. = ℄ Ditch	9.0	240.3
8' "	6.4	242.9
15 "	7.5	241.8
5' Rt.	6.3	243.0
10' "	5.5	243.8
20 "	3.4	245.9
0+74 - 5' Lt. = ℄ 2" Exc. Tree		
1+00		
℄	9.2	240.1
2' Lt	11.2	238.1
4' Lt.	9.0	240.3

249.31

7' Lt. = in Berry Bushes	7.9	241.2
20 "	8.0	241.3
6' Rt.	7.7	241.6
20' Rt.	8.5	240.8
1+14 - 8.7 Rt. = ℄ 18" Cottonwood		
1+15 - 8.5 Lt. = ℄ P. pole		
1+25		
℄ = ℄ Ditch	10.6	238.7
5' Lt.	8.1	241.2
10 "	8.3	241.0
20 "	6.6	242.7
5' Rt.	8.4	240.9
20' "	9.1	240.2
1+56 = edge of Conc. Slab at Inlet		
℄ on Conc.	10.88	238.93
1.5 Lt. = edge Conc.	10.72	238.59
6' Lt.	7.5	241.8
9.7 Lt. = ℄ 3' Pepper tree		
1.5 Rt. = edge Conc.	10.73	238.58
5' Rt.	9.0	240.3
10 "	8.8	240.5
1+58.32 = Inlet 36" R.C. pipe & Headwall - See Detail P. 37		
℄ = F.L.	10.78	238.53
Top Headwall	7.40	241.90

249.31

T.P. 5.49	248.45	6.35	242.96
4.31	251.77	0.99	247.46
Check B.M. S.E. Landis & Alabama		6.26	245.51 245.52
1.89	247.41		245.52

Levels on Inlets #18-19 & 20 at Int of Landis & Alabama - See Detail P. 36

# 18 - "G" Type on S.E. Ret.		
Flow line of Box	7.70	239.71
Top of grate in Gut.	3.01	248.80
# 19 - "G" on N.E. Ret.		
F.L.	9.48	237.96
Top Grate	2.68	244.73
# 20 - "A" Type on W.cb.		
F.L.	12.29	235.12
Top grate	3.75	243.66
T.P. 4.73	239.74	12.40 235.01

Begin Levels on Prop. Drain W. of Alabama to creek E. of Florida St.

0+00 = outlet of 30" R.C. pipe - See Detail P. 36		
℄ = F.L. 30" pipe	8.01	231.73
℄ Top Headwall	3.96	235.78
2.5 Lt. = edge Conc. slab.	7.90	231.88
10' Lt.	0.9	238.8

0+00 Cont 239.74

25 Rt. - edge Conc.	8.46	231.28
10 Rt.	0.4	239.3
0+12		
℄ - on Conc. slab.	10.18	229.56
℄ on Dirt	9.2	230.5
7' Lt.	9.4	230.3
15 "	3.2	236.5
20 "	+ 1.2	240.9
9' Rt. on Dirt (Slab Covered to deep.)	8.1	231.6
20' Rt.	+ 1.0	240.7
0+21 = end of Conc. Slab (approx.)		
℄ on slab.	10.62	229.12
℄ on Dirt	8.4	231.3
9' Lt.	7.9	231.8
15 "	1.7	238.0
20 "	0.7	239.0
7' Rt.	7.7	232.0
20 Rt.	+ 0.9	240.6
0+33.50 = Ang pt. (outs on split of Ang.)		
℄	9.1	230.6
8' Lt.	9.5	231.2
12 "	5.2	234.5
20 "	4.5	235.2
4 Rt.	8.0	231.7

239.74

20 Rt.	0.0	239.7
0+50		
℄	10.3	229.4
13 Lt.	10.1	229.6
15 Lt.	7.6	232.1
20 "	7.2	232.5
4 Rt	8.6	231.1
20 Rt.	0.0	239.7
0+65		
℄ - ℄ Ditch	12.1	227.6
3' Lt.	11.1	228.6
5 "	8.8	230.9
20 "	8.1	231.6
3 Rt.	10.7	229.0
20	1.0	238.7
0+89 - 11' Rt. ℄ 8" Pine		
1+00		
℄	13.1	226.6
9 Lt.	13.2	226.5
11 "	9.8	229.9
20 "	9.2	230.5
6 Rt.	11.9	227.8
10 "	9.8	229.9
20 "	7.2	232.5
T.P 288	232.89	9.73 230.01

232.89

1+16 = 12.2 Rt. = ℄ 8" Pine.		
1+20		
℄	4.0	228.9
20' Lt.	3.5	229.4
2' Rt. = in ditch	6.9	226.0
8' " " "	7.6	225.3
10 "	3.7	229.2
20 "	2.8	230.1
1+33 - 11.5 Rt = 7" Pine		
1+40		
℄	4.3	228.6
20' Lt.	4.5	228.4
1 Rt. = in Ditch	7.7	225.2
7' " " "	7.7	226.2
10 "	4.0	228.9
20	4.2	228.7
40' Rt. = E. side House of Small	1.80	231.09 floor
1+45 - 10' Rt. = ℄ 3' Pine		
1+50		
℄ = in Ditch	8.0	224.9
1' Lt.	4.6	228.3
20 "	4.6	228.3
6' Rt.	7.6	225.3
9' Rt.	4.3	228.6
20 "	4.6	228.3

232.89

1+67 - 9' Rt. = ℄ 4" Pine		
1+75		
℄ in Ditch	8.4	224.5
4 Lt. "	7.9	225.0
6 "	5.5	227.4
20 "	4.9	228.0
5' Rt.	8.0	224.9
7 "	5.5	227.4
20' Rt	5.3	227.6
1+80 - 9' Rt. = ℄ 3" Pomegranite		
1+88 - 19' Lt. = ℄ 3' Eve. Tree		
2+00		
℄	9.4	223.5
4' Lt.	8.9	224.0
6 "	6.5	226.4
20 "	6.1	226.8
4' Rt.	9.0	223.9
6 "	5.7	227.2
20' "	5.9	227.0
2+05		
℄	9.7	223.2
6' Lt.	9.6	223.3
8' "	7.2	225.7
20' "	7.1	225.8
10 Rt. = in N. +S Creek	8.7	224.2

232.89 ✓

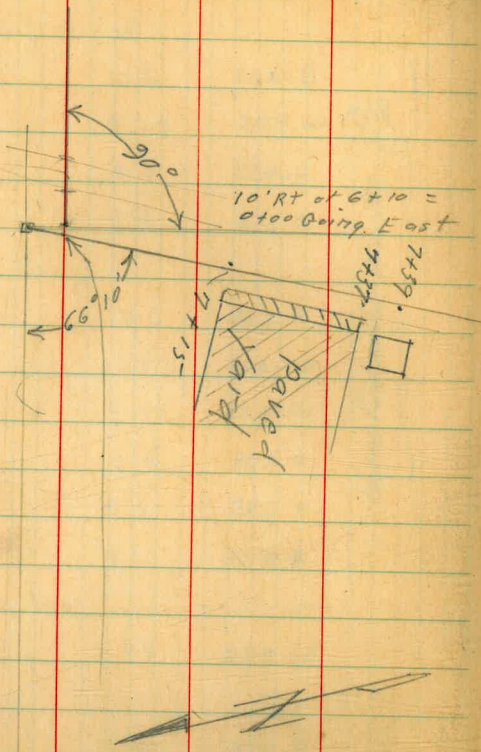
2+11 - Beg. Conc. Ramp on Lt.				
℄			10.6	222.3
14.4 Lt. Cor. Conc.			8.28	224.61
20 Lt. =			8.0	224.9
20 Rt. - in Creek			9.4	223.5
2+25 - Cor. - end of Ramp				
℄			10.6	222.3
3' Lt. = Cor. Ramp			10.82	222.07
18' Lt. = S. edge Ramp			9.48	223.81
20 "			10.5	222.8
6 Rt.			9.2	223.7
20 Rt.			8.6	224.3
2+32 = ℄ 15" Conc. Box - Covering Sewer Line				
℄ - Top box			9.88	223.08
2+35				
℄			9.9	222.9
20' Lt. in Creek			11.0	221.9
20 Rt.			7.4	225.5
2+49.02 = Stub. = end.				
℄ on Stub.			6.17	226.72
20' Lt.			7.0	225.9
20 Rt.		✓	5.4	227.5
T.P.	13.08	245.37	0.60	232.29
check B.M.			+ 0.15	245.52 ✓

Notes Reduced 1-3-87

DRAINAGE LEVELS

South side Frontier St.

℄ Frontier



6+10 = 1x1 stub L.
L=113'-50' Lt

603.58

50 40 10

0+00 = E.C. 42+65.80 F.B. 1679 page 20

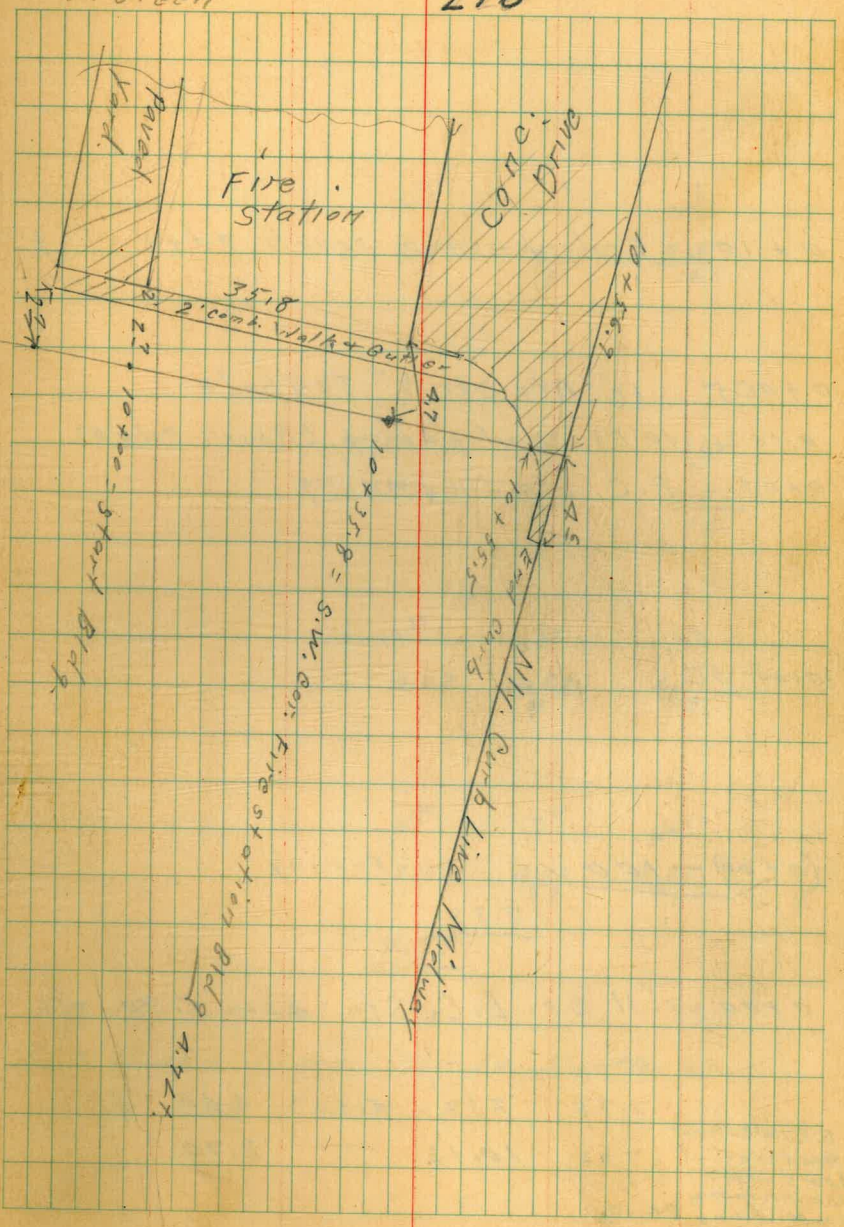
Fd. 1/2 Hub

5/8 Fd. 1/2 Hub

Sommermeyer
in Moore
J. Green

Work Order 210

2-13-47 44



0+10 End paving rough edge

0+06.5 11' Rt = ctr. 9" Tel. pole
0+02 10' Rt = End paving (Rough edge)
0+00 = E.C. on paving

(0+00) - 50

(0+00) — 100 on Paving
7.38

0+00 will be E.C. Sta. 42+65.80 -

	2.78	7.38	5.52	4.60
B.P. in Culvert Head Wall 150' ± West of W. Pt. Loma on Midway Drive.	7.22	10.12	—	2.90

2.70	2.1	2.9
4.68	5.3 / 8	4.35 / 12
2.89	2.44	2.83
4.49	4.94 / 7	4.55 / 12
3.35	2.90	3.33
4.03	4.48 / 9	4.05 / 14
5.86	3.32	3.60
3.52	4.06 / 13	3.78 / 18

7.38

FB 1679-P.20.
B.L. = Base line = 10' North of So. line Frontier.

B.L.

1+75		
1+50		
1+47	12' Rt. = Ctr. 9" Tel. Pole	
1+25		
1+00		
0+75		
+50		
0+25		

7.38

2.1	2.0	2.5
5.3	5.4 / 4	4.9 / 15
2.1	2.1	2.1
5.3	5.3 / 6	5.3 / 10
2.2	2.1	2.3
5.2	5.3 / 6	5.1 / 10
2.3	2.2	2.3
5.1	5.2 / 6	5.1 / 10
2.4	2.3	2.5
5.0	5.1 / 6	4.9 / 10
2.5	2.3	2.7
4.9	5.1 / 7	4.7 / 12
2.5	2.1	2.6
4.9	5.3 / 7	4.8 / 10

7.38

S.L. Frontier

+25				
3+00				
+75				
2+50				
T.P.	5.36	7.54 / 7.38	5.20	2.18
+25				
2+00		7.38		

BL. 47

2.0	1.6	2.4
5.5	5.9 / 10	5.1 / 12
2.0	1.6	2.2
5.5	5.9 / 10	5.3 / 12
2.0	1.7	2.3
5.5	5.8 / 10	5.2 / 12
1.8	1.5	2.5
5.7	6.0 / 10	5.0 / 12
2.0	2.0	2.9
5.4	5.4 / 10	4.5 / 15
2.0	2.1	2.6
5.4	5.3 / 10	4.8 / 15
7.38		

4+75	3.1 4.4 20 Pav.	2.7 4.8 10	2.0 5.5	1.6 5.9 10	2.1 5.3 12	2.9 4.6 50
4+50			2.0 5.5	1.7 5.8 10	2.3 5.2 12	
+25			2.0 5.5	1.7 5.8 10	2.3 5.2 12	
4+00			2.0 5.5	1.5 6.0 10	2.5 5.0 12	
+75			1.9 5.6	1.5 6.0 10	2.7 4.8 12	
3+50			1.9 5.6	1.6 5.9 10 5.4 line	2.6 4.9 12	

7.54

7.54

B.L.

T.P.	4.31	6.20 ✓	5.65	1.89	L: 6+10 113°-50' Rt
		7.54			
6+10	L: 113°-50' Rt.				
6+00					
+75					
+50					
+25					
5+00		7.54			

3.0 2.5 1.89
4.5 5.0 5.65 - on station
20 10
Pav.

3.0 2.5 1.9 1.5 2.0
4.5 5.0 5.6 6.0 5.5
20 10 10 12
pav

3.1 2.5 1.9 1.6 2.0 3.1
4.4 5.0 5.6 5.9 5.5 4.4
20 10 10 12 10
Pav

3.2 2.6 2.0 1.6 2.5 3.0
4.3 4.9 5.5 5.9 5.8 4.5
20 10 10 12 10
Pav

3.2 2.7 2.0 1.6 2.2 3.5
4.3 4.8 5.5 5.9 5.3 4.0
20 10 10 12 60
pav on floor of cafe porch

3.2 2.6 2.1 1.5 2.1 3.1
4.3 4.9 5.4 6.0 5.4 4.4
20 10 10 12 50
Pav. 5.4 no

7.54

7+44.5 = 3° Rt. = start picket fence

7+39 3.4 Rt. = ℄ 4'x4' Incinerator
Brick on Conc. Base

7+37 - 2.5 Rt = End 8" Conc. Wall

7+15.7 - 2.5 Rt = start 8" Conc Wall

7+00

6+90

6+50

6+21

6+20.93 = S. Line Frontier.
6.20

℄ as run = B.L. ℄

1.7 4.5 5	1.7 4.5	3.0 3.2 5	
1.9 4.3 10	1.8 4.4 5	2.9 3.3	2.9 3.3 5
2.3 3.9 5	2.2 4.0	2.3 3.9 5	
2.1 4.1 5	2.2 4.0	2.1 4.1 5	
1.6 4.6 5	1.6 4.6 ℄ 6.20	1.6 4.6 5	

9+90 — 2.7 Lt = N.W. Cor. paved Fire station yard.

9+84 — 1.0 Rt = start 2xA - Rail fence
3.3 Rt = End picket fence

9+50

9+20 — 4.3 Lt = End row of 5" poplars

T.P.	4.17	6.06	4.31	1.89
		6.20		

9+00

8+50

8+00

7+75 — 5' Lt = start row of 7 poplar trees 5" trunk diam.

7+50

6.20

℄

2.09			
3.97			
2.9			
1.8	1.1		2.4
4.3	5.0		3.7
5			4
6.06			
1.6	1.1	1.1	2.1
4.6	5.1	5.1	4.1
5		2	4
1.9	1.8	1.8	2.8
4.3	4.4	4.4	3.4
5		2	4
1.8	1.6	1.6	3.4
4.4	4.6	4.6	2.8
5		2	4
1.7	1.6	1.6	3.4
4.5	4.6	4.6	2.8
5		2	4
6.20			

0+00

5.11 7.00 — 1.89

B.M. = L: 6+10 : page 49.

0+00 will be 10' S. (at 90°) of L: 6+10 From L: 6+10 - Going East

Check To T.P. 4.16 1.90 L: 6+10. S.B 1.89 1.90 −0.01

10+56.9 In N. gutter of Midway Dr. End of "A" Line

10+55.5 on N. Edge of drive

10+48 13 Rt = End 2x4 Rail fence

10+35.8 2.6 Lt. =

10+00

6.06

B.L.
S. Line Frontier

1.6
5.4
7.00

10 Base line will be So. Line Frontier

0' ℄ as per page 44
5.31

1.30
4.76

1.0
5.1
5

1.86
4.20
2.6
on Conc

1.5
4.6

1.3
4.8
5

1.9
3.92
2.7
on Conc.

1.9
4.2

1.9
4.2
3

1.1
5.0
4

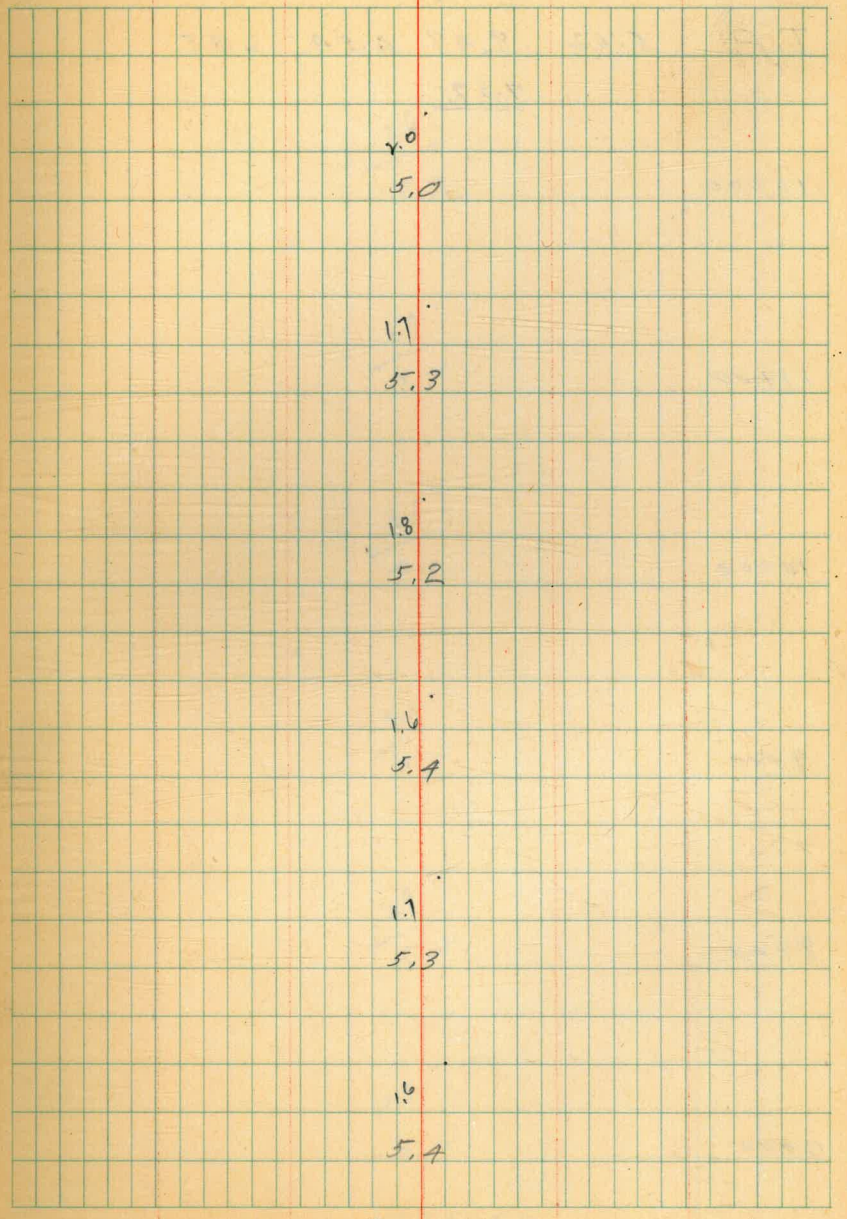
1.9
4.2
5

6.06

T.P.	5.38	7.39	4.99	2.01
		7.00		
6+00				
5+00				
4+00				
3+00				
2+00				
1+00				
		7.00		

B.L.
S. Line Frontier

53



T.P.	5.62	8.47 ✓	4.54	2.85
		7.39		
12+00				
11+00				
10+00				
9+00				
8+00				
7+00				
		7.39		

B.L.
S.L. Frontier

4

2.6
4.8

2.7
4.7

2.5
4.9

2.1
5.3

1.9
5.5

1.9
5.5

7.39 ✓

18+00

17+00

16+00

15+25

14+69 Aprox ℄ Fordham

14+00

13+00

8.47

B.L.
So. Line Frontier

2.9
5.6

2.8
5.7

3.0
5.5

3.2
5.3

2.9
5.6

2.9
5.6

2.8
5.7

8.47 ✓

B.L.
So. L. Frontier

24+00				
23+00				
22+00				
21+00				
T.P	4.33	7.23	5.57	2.90
20+00		8.47		
19+00		8.47		

2.1
5.1

2.4
4.8

2.2
5.0

2.3
4.9
7.23 ✓

2.5
6.0

2.6
6.0
8.47

28+00

27+17 Aprox ℄ Reliant St.

T.P. 4.94 7.48 4.69 2.54
7.23

27+00

26+00

25+00 stationing on So. Line Frontier

24+85.66 = B.C. Rt

7.23

B.L.

2.3
5.2

2.4
5.1
7.48 ✓

2.3
4.9

2.0
5.2

2.✓
5.0

2.✓
5.0

7.23

T.P.	4.98	7.46 / 7.48	5.00	2.48
33+00				
32+00				
31+00				
30+00				
29+00				
28+64.19 = EC				
		7.48		

B.L

2.4
5.1
5
IN Cut

2.7
4.8

2.0
5.5

2.2
5.3

2.2
5.3

2.3
5.2

2.3
5.2

7.48

S.W.B.R
Kurtz +
Rosecrans

4.50 2.96
2.97 - correct El.
.01

7.46

34+38.4 = start state paving FB 1679-8

34+00

7.46

B.L.
So. Line
Frontier

38

2.9 3.0
4.6 4.5
11
on Pav.

2.9 3.7 2.8
4.6 4.1 4.7
10 6

7.46

Sommermeyer
W. Moore
J. Green

2-18-47

W.O. #210

Elevation Top of La Playa & Haines

0+00 = 50' So.-So. line La Playa

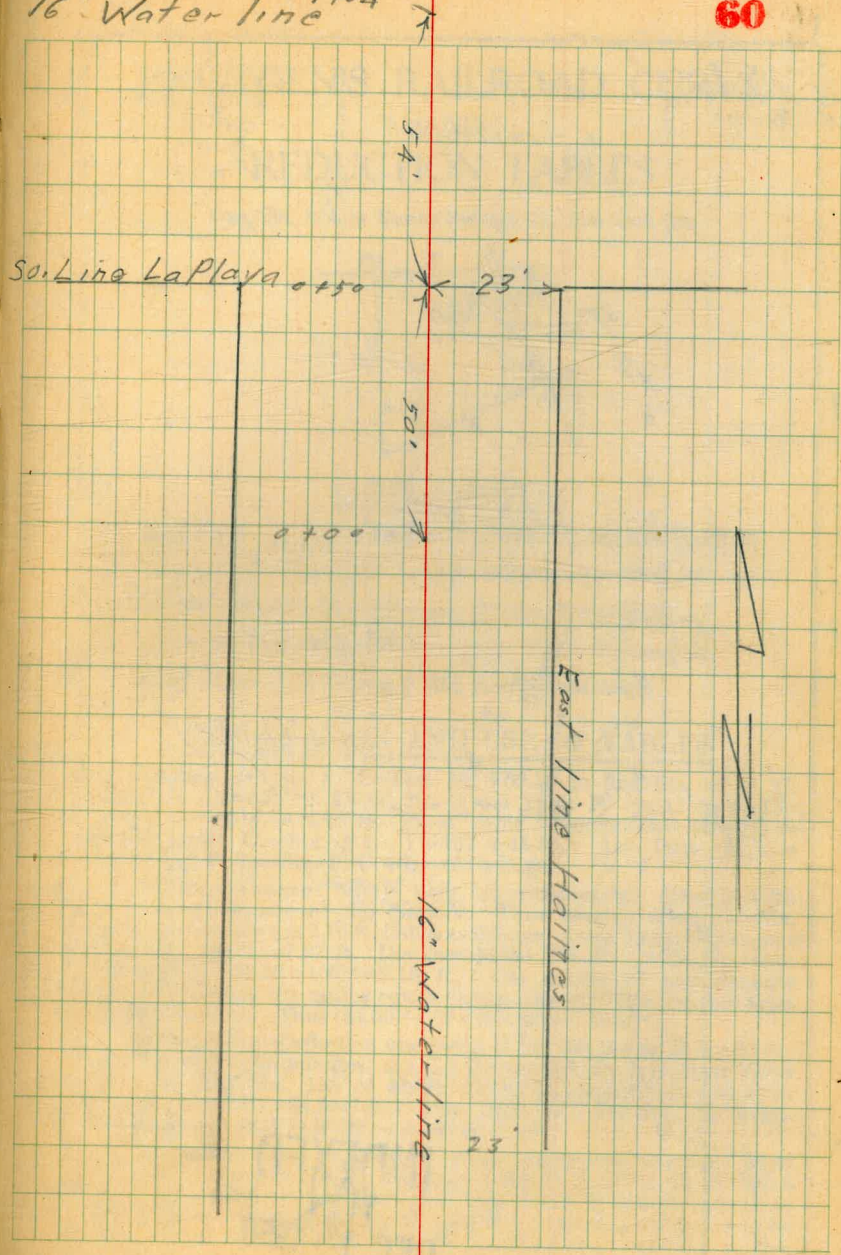
N.E.B.R. La Playa & Frontera

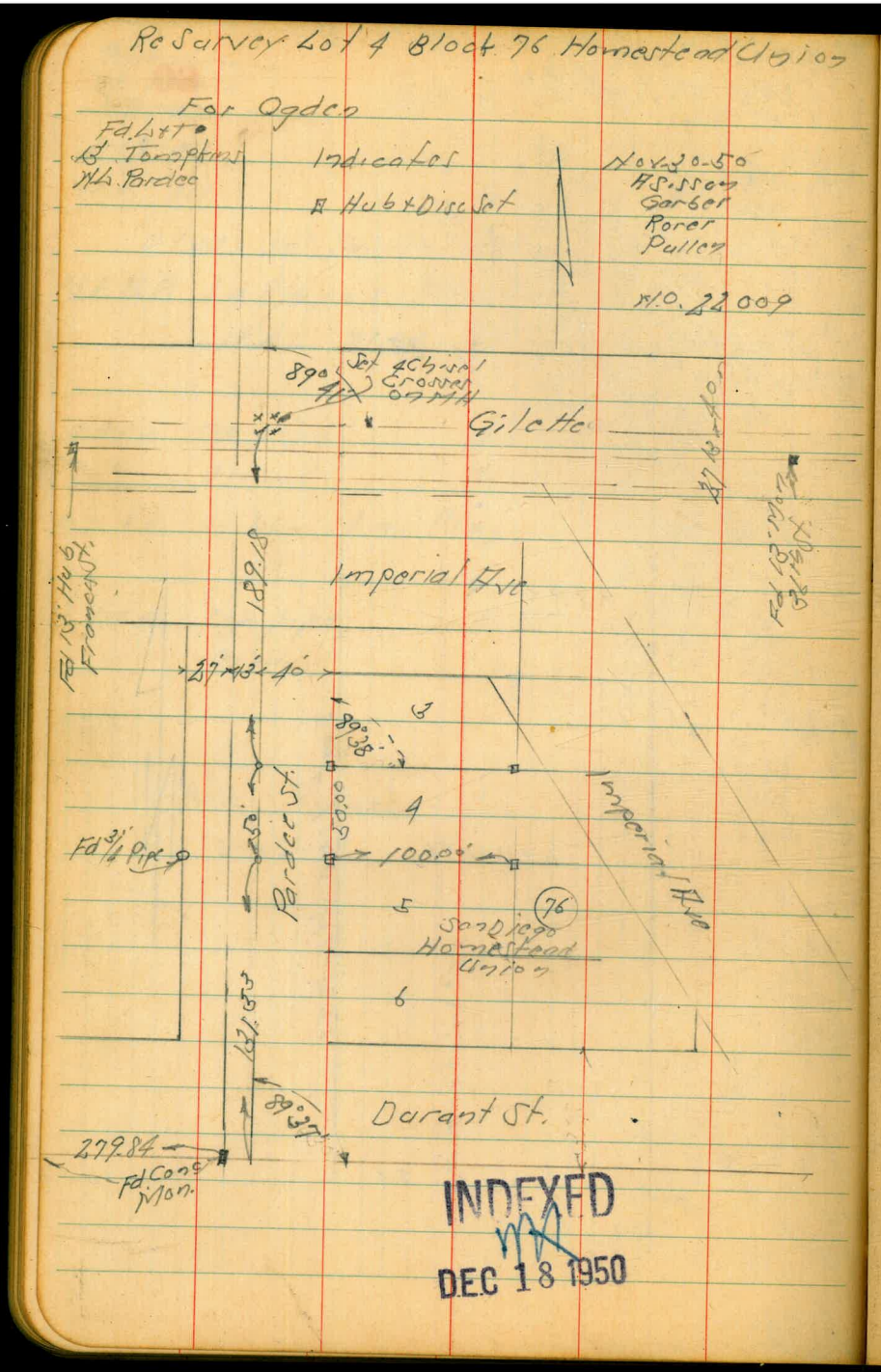
12.41 31.86 — 19.45

0+00	top pipe	6.07	25.79
"	Ground	3.3	
0+50	So. line La Playa		
1+04	top pipe	5.25	26.61
"	Ground	3.6	

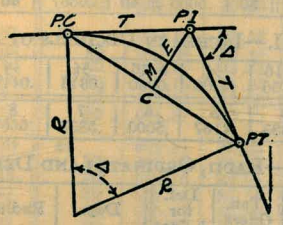
Notes Reduced -

2-25-47 - yrhevvy -





DIETZGEN'S RAILROAD CURVE AND REDUCTION TABLES



CURVE FORMULAS

Radius=$R=\frac{50}{\text{sin. } D/2}$ (1) Degree of Curve=D and sin. $\frac{D}{2}=\frac{50}{R}$ (2)

Tangent=$T=R\tan\frac{\Delta}{2}$ (3) Length of Curve=$L=100\frac{\Delta}{D}$ (4)

Middle ordinate=$M=R(1-\cos.\frac{\Delta}{2})$ (5)=$R\text{vers}\frac{\Delta}{2}$ (6)

External=$E=T\tan\frac{\Delta}{4}$-(7)=$R\div\cos.\frac{\Delta}{2}-R$(8)=$R\text{exsec}\frac{\Delta}{2}$(9)

Long Chord=$C=2R\sin.\frac{\Delta}{2}$ (10) Δ=Central Angle

EXPLANATION AND USE OF TABLES

Stations.—Given P. I.=Sta. 161+60.35 to find Sta. of P. C. and P. T. $\Delta=62°\ 10'$ $D=8°\ 20'$. From Table IV for 1° curve T=3454.1 and $\div 8\frac{1}{3}$=414.49 ft. From Table V correction=.36 or T=414.85 ft. P. C.=Sta. P.I.—T=157 +45.50. Also from (4) L=746.00 and P. T.=Sta. P. C.+L=164+91.50.

Offsets.—Tangent offsets vary (approximately) directly with D and with square of the distance. Thus tangent offset for Sta. 158 on above curve is 2.16 ft. found as follows. From Table III tangent offset for 100 ft.=7.27 ft. Distance=158—Sta. P. C.=54.50, hence offset=7.27 $(54.50\div 100)^2$=2.16 ft. Also square of any distance divided by twice the radius equals (approximately) the distance from tangent to curve. Thus $(54.50)^2\div(2\times 688.26)$=2.16 ft.

Deflections.—Deflection angle=½ D for 100 ft., ¼ D for 50 ft., etc. For c ft.=(in minutes) .3 x C x D° or=defl. for 1 ft. from Table III x C. For Sta. 158 of above curve=.3 x 54.5 x $8\frac{1}{3}$=136.2′ or 2° 16.2′, or=2.50 x 54.5=136.2′ from Table III. For Sta. 159 deflection angle=2° 16.2′ +8° 20′ ÷2=6° 26.2′, etc.

Externals.—May be found in similar manner to tangents. Thus E for curve above is 115.37. For from Table IV for 1° curve E=960.6 for 8° 20′=960.6 $\div 8\frac{1}{3}$=115.27 and from Table V correction=.10 or E=115.37 ft. Or suppose Δ=32° and E is measured and found to be 42 ft. What is D? From Table IV E=230.9 and ÷42=5.5 or D=5° 30′.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1½

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) ÷ 2 or 2 ft. added to 41.9 = 43.9. For slopes of 1 on 1 see inside of front cover.