

1880  
The ...  
of ...

W321

MICROFILMED  
JUN 12 1963

Clay Res. - San Diego, 2<sup>nd</sup> M.P.L.  
Schedule IV

## Construction Field Book 1930

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

- No. 380 LEVEL BOOK. Left and Right Hand, Page the same as Left Hand Page, of this Book.
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86463.73  
34  
86497.93

Elevs. Sewers Watermain etc	Page	2-5
Profile 855+12 <sup>05</sup> to 912+00	11	6-9
Lakeside pipe line	11	12
Elevations Sewers, Water Main Etc.		10-13
Profile 912+26 to 1013+42 <sup>26</sup>		14-20

## INDEX TO QUANTITIES

	Item	amt.	Page
Pipe in place	4	14512.25	26
Pipe in place	5	1080.93	27.

$860+53^{\circ}21' =$   
 M.H. 860+60.51  $\Delta = 21^{\circ}43'30'' L$   
 49

257+07 S. Lat.

258+33 Sewer Lat.

M.H. 13

257+16

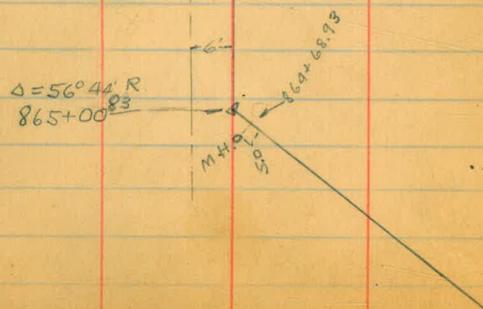
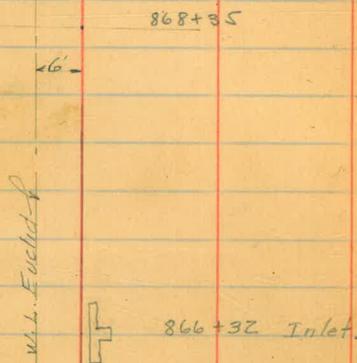
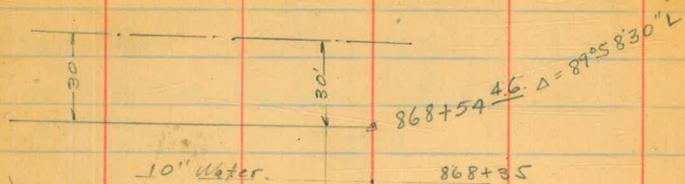
30" MAIN

255+64.55

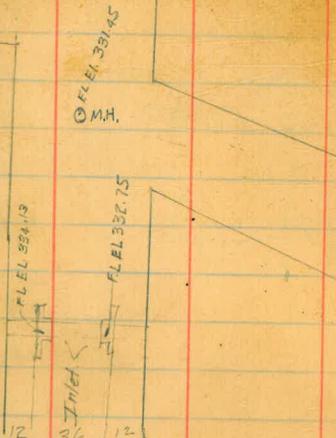
255+53.45

Elev's on Sewer Mains Water Mains etc  
 B.P.N.E. & Profile for change to w. parking Euclid.  
 Euclid Lantam.

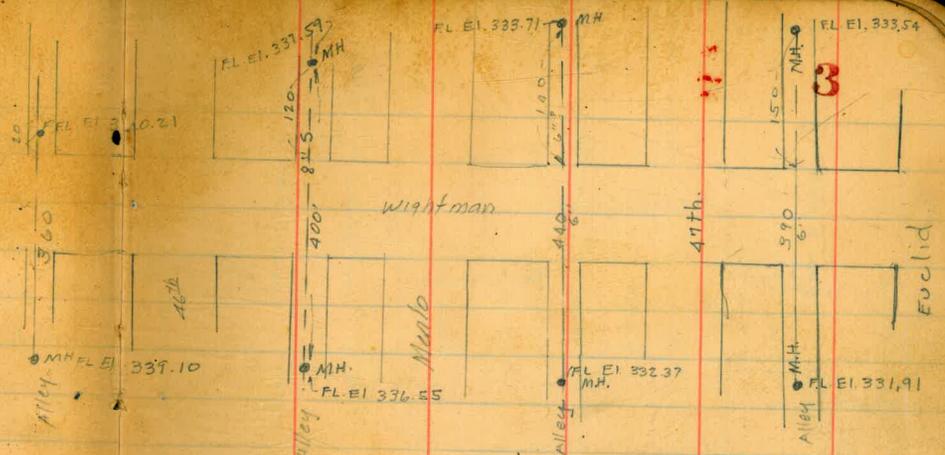
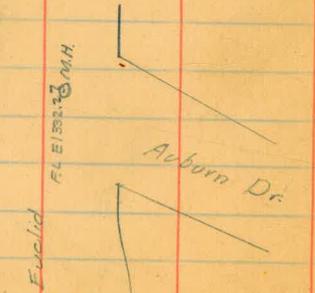
B.M.	5 80	346.26	340.46	2
Bottom Box opp sta	855+64 <sup>5</sup>	12.18	334.08	
FL MH opp sta	857+16	11.49	334.77	5.19 7.25 15.39
FL MH opp sta	860+53 <sup>01</sup>	13.20	333.06	
FL MH opp sta	864+68 <sup>93</sup>	15.34	330.92	
B.M.	342	343.88	340.46	
(24" dia)				
FL Inlet of sta	866+32	9.75	334.13	
end pipe 8" in on w.l. Euclid		9.26		
864+97 <sup>12</sup>	cb	3.55		
"	±	3.7		
865+50		4.2		
866+00		4.9		
+50		5.0		
867+00		4.7		
+50		4.4		
868+00		4.1		
+15 <sup>5</sup>	cb	4.03		
"	gutter	4.43		
868+54 <sup>65</sup>		3.79		



Wightman

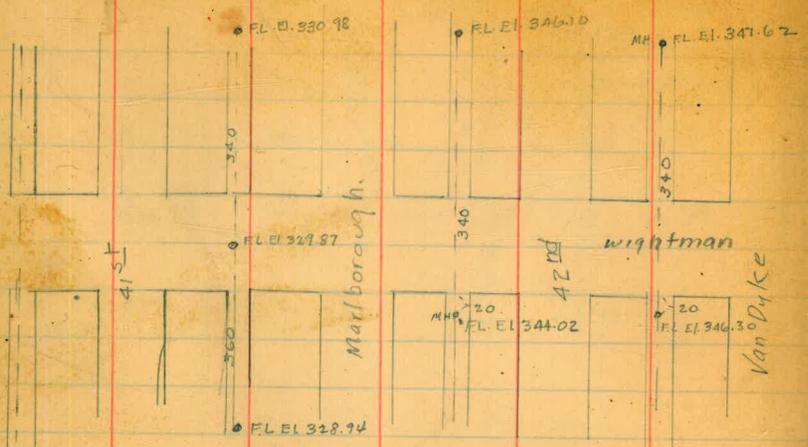


BM	4.46	344.92	340.46
E Inlet s. of Wightman FL	12.17	332.75	
BM	5.26	339.66	
FL M.H. Euclid & Wightman	13.47	331.45	
FL N.H. Auburn Dr. & Euclid.	12.65	332.27	



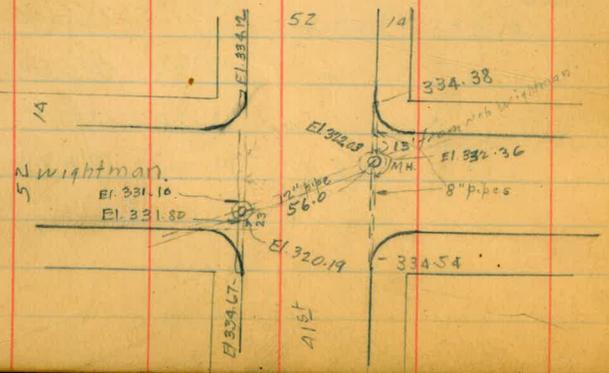
		344.92		
T.P.	4.48	345.64	376	341.16
FL M.H. Alley w. of Euclid N. of Wightman			12.10	333.54
T.P.	9.80	350.96		341.16
FL M.H. Alley W. of 47 N. of Wightman			17.25	333.71
T.P.	5.38	347.56	878	342.18
FL M.H. Alley w. of Mentlo N. of Wightman			9.97	337.59
FL M.H. " " " " S. of " "			11.01	336.55
Top Hyd.				
T.P.	9.79	354.63	2.72	344.84
FL M.H. Alley W. of 46 N. of Wightman			14.42	340.21
BM	0.86	348.84	6.63	348.00
T.P.	4.87	347.21	6.52	342.34
B.M.	5.90	345.56	7.54	339.67
FL EL M.H. Alley W. of Euclid S. of Wightman			13.65	331.91
	9.76	350.92	4.40	341.16
FL M.H. Alley W. of 47 S. of Wightman			18.55	332.37
			8.74	342.18
Top Hyd.	9.80	354.64		344.84
FL M.H. Alley W. of 46 S. of Wightman			15.54	339.10





358.71

FL MH. Alley w of Van Dyke N Wightman	11.09	347.62
FL MH " " " " " "	6.00	346.30
N. W 42 <sup>nd</sup> Wightman		
B.M.	2.09	354.74
	6.06	352.65
FL MH. Alley W of 42 <sup>nd</sup> N Wightman	8.64	346.10
FL MH. " " " " " " S " "	10.72	344.02
RP NW Wightman Marlborough.		
B.M.	0.78	347.94
	7.58	347.16
FL MH. Alley w of Marlborough	18.07	329.87
FL MH. " " " " " " N Wightman	16.96	330.98
FL MH. " " " " " " S " "	19.00	328.94



NW 41 <sup>st</sup> Wightman	347.94		
B.M.	9.73	345.23	12.44
			335.56
			23.20
			322.03
			12.87
			332.36
			10.69
			334.54
			10.85
			334.38
			11.11
			334.12
FL.			25.04
			320.17
			14.13
			331.10
			13.43
			331.80
			10.56
			334.67
T.P.	12.72	352.20	5.75
			339.48
T.P.	7.49	359.33	0.36
43 <sup>rd</sup> Wightman.			
B.M.			5.65
			353.68

Profile of Second Main dip line  
From sta 855+12<sup>25</sup> Forward.

B.M.	5.47	345.93	340.46
855+12 <sup>25</sup>		8.8	337.1
+22	s.w.	7.36	338.57
+35	to b eb	7.43	338.50
+38	gutter	7.87	338.06
857+53 <sup>25</sup>	L.	7.3	338.6
856+06 <sup>23</sup>		6.5	339.4
+50		6.4	339.5
857+00		6.1	339.8
+50		5.9	340.0
858+00		5.9	340.0
858+50		5.7	340.2
859+00		5.6	340.3
+50		5.5	340.4
860+00		5.4	340.5
+53 <sup>24</sup>	L.	5.54	340.4
861+00		5.0	340.9
+50		4.8	341.1
862+00		4.6	341.3
+50		4.9	341.0
863+00		5.0	340.9
+50		5.0	340.9
864+00		5.1	340.8
+38	Paul.	5.43	340.50
+50		5.68	340.35

3/22/30  
London

		345.93			
864+73			5.32	340.61	✓
+92	gutter		6.04	339.89	✓
+92	eb		5.64	340.29	✓
865+00 <sup>83</sup>	L.		5.54	340.39	✓
B.M.	4.42	344.88	5.47	340.46	✓
+50			5.18	339.70	✓
866+00			5.79	339.09	✓
+50			5.98	338.90	✓
867+00			5.70	339.18	✓
+50			5.35	339.53	✓
868+00			5.13	339.75	✓
+16 <sup>5</sup>	eb		5.02	339.86	✓
+16 <sup>5</sup>	gutter		5.37	339.51	✓
+44 <sup>46</sup>			5.00	339.88	✓
868+54 <sup>46</sup>	L.		4.93	339.95	✓
+60 <sup>46</sup>	W.L. Excl'd		4.71	340.17	✓
869+00			4.2	340.71	✓
+50			4.3	340.6	✓
870+00			4.1	340.8	✓
+50			3.8	341.1	✓
871+00			4.0	340.9	✓
+30	E. Paw 47 <sup>44</sup>		3.54	341.34	✓
+50			3.34	341.54	✓
+90	W. Paw 47 <sup>44</sup>		3.03	341.85	✓
872+00	5.26	347.32	2.82	342.06	✓

6

		34732 ✓		
872+50		3.3	344.0 ✓	
873+00		1.6	345.7 ✓	
+50		1.4	345.9 ✓	
874+00		2.5	344.8 ✓	
+50		3.9	343.4 ✓	
+60	bas Menlo	4.07	343.25 ✓	
875+00		5.35	341.97 ✓	
+20	w Pav Menlo	5.14	342.18 ✓	
+50		4.9	342.4 ✓	
876+00		4.7	342.6 ✓	
+50		4.8	342.5 ✓	
877+00		4.6	342.7 ✓	
+50		4.4	342.9 ✓	
+90	E Pav 46 <sup>th</sup>	4.06	343.26 ✓	
878+00		4.05	343.27 ✓	
+50	w Pav 46 <sup>th</sup>	3.50	343.82 ✓	
879+00	8.05	352.83	2.54	344.78 ✓
+50		7.1	345.7 ✓	
880+00		6.2	346.6 ✓	
+50		5.6	347.2 ✓	
881+00		5.4	347.4 ✓	
+13		5.4	347.4 ✓	
+21	E Pav Chammoone	5.56	347.27 ✓	
+33		6.03	346.80 ✓	
+50		5.45	347.38 ✓	

		35283		7
881+68 <sup>5</sup>		5.60	347.23 ✓	
+80 <sup>5</sup>	w Pav	4.97	347.86 ✓	
882+00		4.8	348.0 ✓	
+50		4.9	347.9 ✓	
883+00		5.0	347.8 ✓	
+50		5.2	347.6 ✓	
884+00		5.3	347.5 ✓	
+50	E Pav 45 <sup>th</sup>	5.60	347.23 ✓	
Most max Chammoone				
B.M.	4.26	352.26	4.83	348.00 ✓
+62		5.61	346.65 ✓	
+80	E 45 <sup>th</sup>	5.21	347.05 ✓	
885+00		5.62	346.64 ✓	
+12	w Pav 45 <sup>th</sup>	5.06	347.20 ✓	
+50		4.4	347.9 ✓	
886+00		3.8	348.5 ✓	
+50		2.9	349.4 ✓	
887+00		2.7	349.6 ✓	
+50		2.1	350.2 ✓	
+80	E Pav Highland	2.05	350.21 ✓	
888+00		1.89	350.37 ✓	
+45	w Pav Highland	1.35	350.91 ✓	
+50	TP. 8.26	359.33	1.19	351.07 ✓
889+00		7.7	351.6 ✓	
+50		7.2	352.1 ✓	
890+00		6.6	352.7 ✓	

359.33 ✓

890+50		5.9	353.4	✓
891+00		5.4	353.9	✓
+15	E. Pav. 44 <sup>th</sup>	5.19	354.14	✓
+50		4.90	354.43	✓
+75	W. Pav. 44 <sup>th</sup>	4.73	354.60	✓
892+00		4.6	354.7	✓
+50		4.3	355.0	✓
893+00		4.3	355.0	✓
+50		4.2	355.1	✓
894+00		4.2	355.1	✓
+45	E. Pav. Fairmount.	4.07	355.26	✓
+50		4.08	355.25	✓
895+00		4.20	355.13	✓
+05	W. Pav. Fairmount	4.29	355.04	✓
T.R.	3.13	358.51	355.39 B.M. 355.38	Check 0.01
+50		3.7	354.8	✓
896+00		3.9	354.6	✓
+50		4.1	354.4	✓
897+00		4.4	354.1	✓
+50		4.6	353.9	✓
+75	E. Pav. 43 <sup>th</sup> St.	4.88	353.63	✓
+87		5.32	353.19	✓
898+00		5.14	353.37	✓
+15	E. 43 <sup>th</sup>	5.14	353.37	✓
+40		5.76	352.75	✓
+50		5.47	353.04	✓

358.51 ✓

8

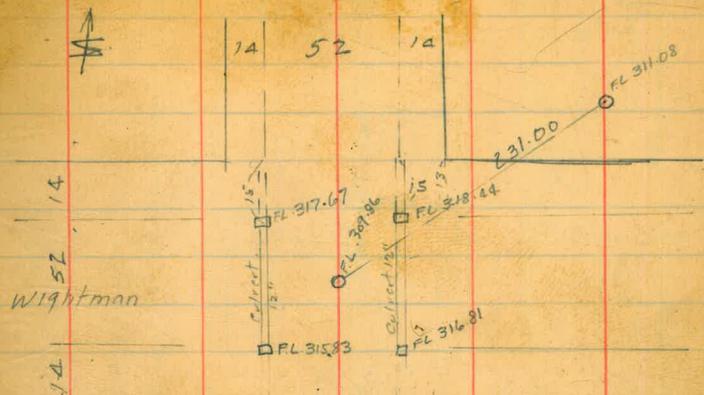
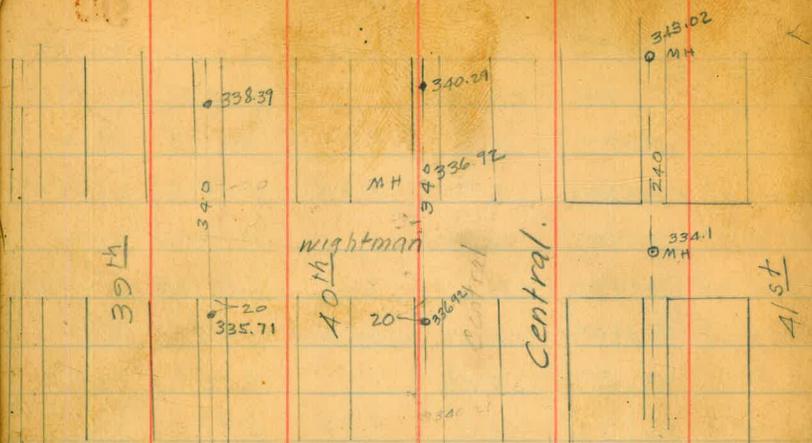
+55	W. Pav. 43 <sup>th</sup>	5.33	353.18	✓
899+00		5.0	353.5	✓
+50		4.8	353.7	✓
900+00		4.3	354.2	✓
+50		4.2	354.3	✓
901+00		4.1	354.4	✓
+50		4.1	354.4	✓
+54	E. Pav. Van Dyke	4.15	354.36	✓
+68		4.62	353.89	✓
902+00		4.01	354.50	✓
+21		4.68	353.83	✓
+35	W. Pav. Van Dyke	4.28	354.23	✓
T.P. in B.M. Van Dyke		3.79	354.73 B.M. 354.72	Check 0.01
	1.93	356.65		
+50		2.5	354.2	✓
903+00		2.6	354.1	✓
+50		2.9	353.8	✓
904+00		2.8	353.9	✓
+50		3.2	353.5	✓
905+00		3.6	353.1	✓
+34	E. Pav. 42 <sup>nd</sup>	4.19	352.46	✓
+50		4.59	352.06	✓
+75		4.11	352.54	✓
906+00		4.95	351.70	✓
+15	W. Pav. 42 <sup>nd</sup>	4.46	352.19	✓

		356.65		
906+50		4.9	351.8	✓
907+00		6.0	350.7	✓
+50		6.8	349.9	✓
908+00		7.3	349.4	✓
+50		8.3	348.4	✓
909+00		8.9	347.8	✓
+14	E.Pav. Marlborough	9.46	347.19	✓
+26		9.92	346.73	✓
+50		9.35	347.30	✓
+94	W.Pav. Marlborough	9.69	346.96	✓
	0.60	347.75	9.50	347.15
910+00		0.9	346.9	✓
+50		3.3	344.5	✓
911+00		4.8	343.0	✓
+50		6.5	341.3	✓
912+00		8.9	338.9	✓
+50	Δ	10.7	337.1	✓
+95	E.Pav. 41st St.	11.85	335.90	✓
913+07 <sup>55</sup>	Δ	11.79	335.96	✓
913+65 <sup>10Δ</sup>		12.10	335.65	✓
		12.28	335.47	✓

B.M.	7.40	347.06		339.66	
2" W.M. at 869+90	(top)		7.53	339.53	
6" W.M. at 873+20	top		3.88	343.18	
B.M.	4.90	352.90		348.00	
6" W.M. at 879+80	top		7.05	343.85	
6" W.M. at 883+10 <sup>E</sup>	top		8.15	344.75	
B.M.	3.15	355.90		352.75	
30" W.M. Highland Ave			8.84	347.06	
6" W.M.	889+74 <sup>50</sup>		6.24	349.66	
B.M.	5.05	360.02		354.97	
6" W.M.	893+05		7.47	352.55	
2" W.M.	893+05		7.17	352.83	
B.M.	4.67	359.40		354.73	
12" W.M. at 900+00			8.03	351.37	
6" W.M. at 903+80			8.58	350.82	
B.M.	8.95	344.45		335.50	
6" W.M. Allen W. of 41st			7.91	336.54	
Upper level D.M.H. & Lightman	Alley W. of 41st		10.3	334.1	
N.W. Central & Lightman.			0.86	343.59	
B.M.					
T.P.	7.85	351.68	0.62	343.83	
N.H. Alley W. of 41st N. Wightman			8.66	343.02	
B.M.	5.75	345.41		339.66	
10" W.M. in Wightman - W.L. Euclid			8.54	336.87	

Sewers & Drains on Wightman St.

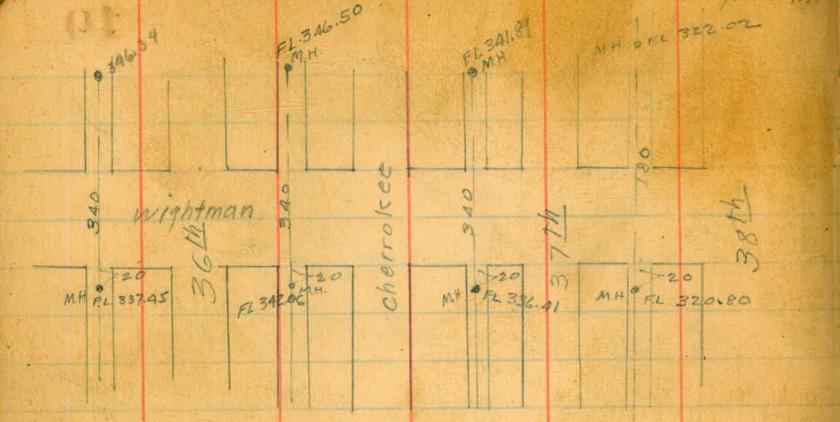
8.90  
9.20  
18.60



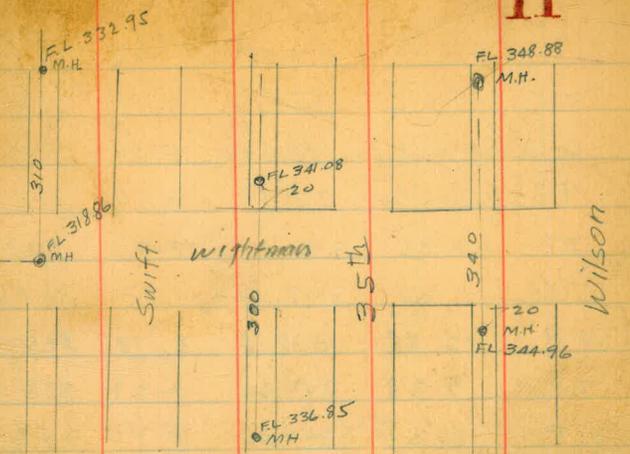
B.M	6.91	350.50	343.59
MH Alley w. of Central N. Wightman	10.21	340.29	
MH " " " S "	13.58	336.92	
T.P.	1.78	346.29	5.99
MH Alley w. of 40th S Wightman	10.58	335.71	
MH. " " " N "	7.90	338.39	
T.P	0.24	335.49	11.04
T.P	4.23	328.46	11.26
MH NE 38th Wightman.	17.38	311.08	
N. Culvert Eob 38th	10.02	318.44	
S. " " "	11.65	316.81	
S. " Web 38th	12.63	315.83	
N. " " "	10.79	317.67	
MH E 38th & Wightman	18.60	309.86	

N.W 38th & Wightman		328.46		
B.M	13.07	332.73	8.80	319.46

Sewers, drains, water mains on Wightman.



		332.73		
M.H. Alley W of 38 <sup>th</sup> N Wightman	10.71	322.02		
	11.93	320.80		
T.P.	11.36	343.76	0.33	332.40
N.W. Wightman & 37 <sup>th</sup>				
B.M.	7.23	348.04	4.95	338.81
6" W.M. Alley W of 37 <sup>th</sup> (top)	8.44	339.60		
M.H. Alley W of 37 <sup>th</sup> S Wightman	11.63	336.41		
M.H. Alley " " " N " "	6.15	341.89		
T.P.	4.06	352.04	0.06	347.98
4" W.M. Alley W of Cherokee	7.57	344.45		
M.H. Alley W of Cherokee	9.98	342.06		
M.H. " " " N Wightman	5.54	346.50		
N.W. Wightman & 36 <sup>th</sup>				
B.M.	5.43	353.09	4.38	347.66
6" W.M. Alley W of 36 <sup>th</sup>	7.54	345.55		
M.H. Alley W of 36 S Wightman	15.64	337.45		
M.H. " " " N Wightman	6.75	346.34		
Hyd SE Wightman & Wilson				
T.P.	5.74	356.48	2.35	350.74



		356.48		
M.H. Alley W of Wilson S Wightman	11.52	344.96		
M.H. " " " N " "	7.60	348.88		
N.W. Wightman & 35 <sup>th</sup>				
B.M.	0.54	353.02	4.00	352.48
M.H. Alley W of 35 N Wightman	11.94	341.08		
M.H. " " " " S " "	16.17	336.85		
Hyd SE Wightman & Swift				
T.P.	0.64	340.65	13.01	340.01
N.W. Swift & Wightman				
B.M.			3.29	337.36
T.P.	10.36	339.55	11.46	329.19
M.H. Alley W of Swift N Wightman	6.60	332.95		
T.P.	0.25	329.44		329.19
M.H. Alley W of Swift & Wightman	10.58	318.86		
M.H. & Wabash & Wightman	20.75	308.69		
6" W.M. Alley W of Swift	6.33	323.11		
T.P.	12.15	341.40	0.19	329.25
T.P.	12.79	353.35	0.84	340.56
6" W.M. Alley W of 35 <sup>th</sup>	10.83	342.52		

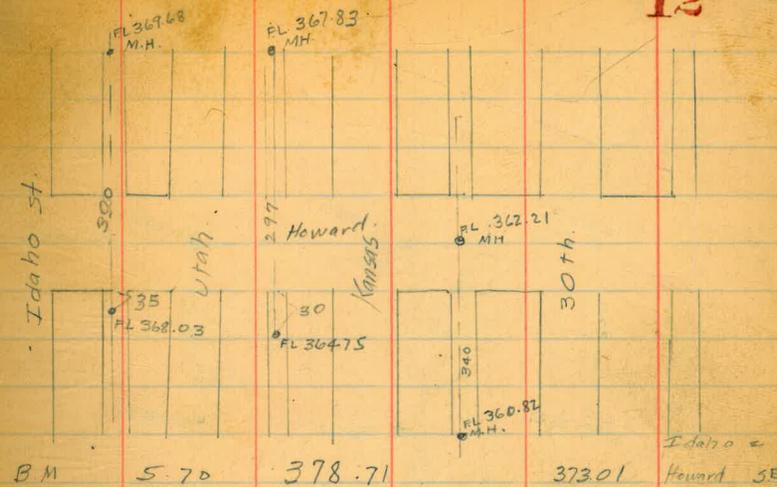
Sewers Crossing Howard Ave.

		353.35			
T.P.	1.52	354.17	0.70	352.65	
6" W.M. Alley w of Wilson			5.81	348.36	
T.P.	3.52	351.19	6.50	347.67	
T.P.	0.83	340.01	12.01	339.18	
T.P.	0.24	327.88	12.37	327.64	
T.P.	12.88	338.58	2.18	325.70	
T.P.	9.38	347.64	0.32	338.26	
T.P.	1.20	344.36	4.48	343.16	
1st Wrightman			8.89	345.47 (345.50)	
B.M.					

16" Main on 30 12" Main on Idaho

Mid. SE 30th & Howard.				
B.M.	3.41	372.48		369.07
16" W.M. SE & 30th			8.40	364.08
6" W.M. DE & 30th			8.47	364.01
B.M.	5.60	378.61		373.01
12" W.M. Idaho			8.84	369.77

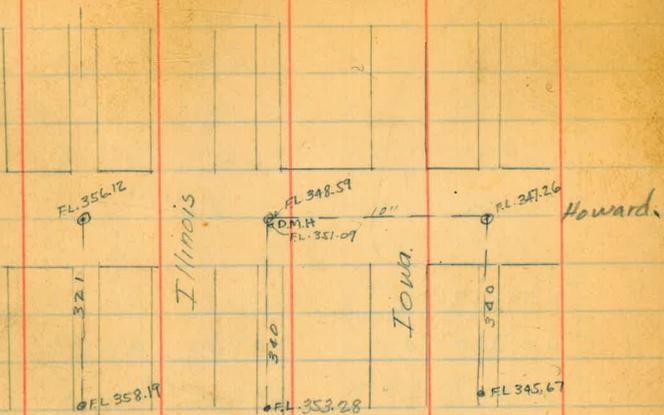
1.84  
1.85  
1.83  
6.23  
7.88



B.M.	5.70	378.71		373.01	Howard SE
M.H. Alley W of Utah N Howard			9.03	369.68	
B.M.	5.60	378.61		373.01	
M.H. Alley W of Utah S Howard			10.58	368.03	
T.P.	3.89	376.94	5.56	373.05	
M.H. Alley W of Kansas S Howard			12.19	364.75	
M.H. " " " " N " "			9.11	367.83	
T.P.	1.28	373.69	4.53	372.41	
M.H. Alley W of 30th & Howard			11.48	362.21	
M.H. " " " " S " "			12.87	360.82	
T.P.	2.04	371.11	4.62	369.07	
B.M.	3.43	367.86	6.68	364.43	

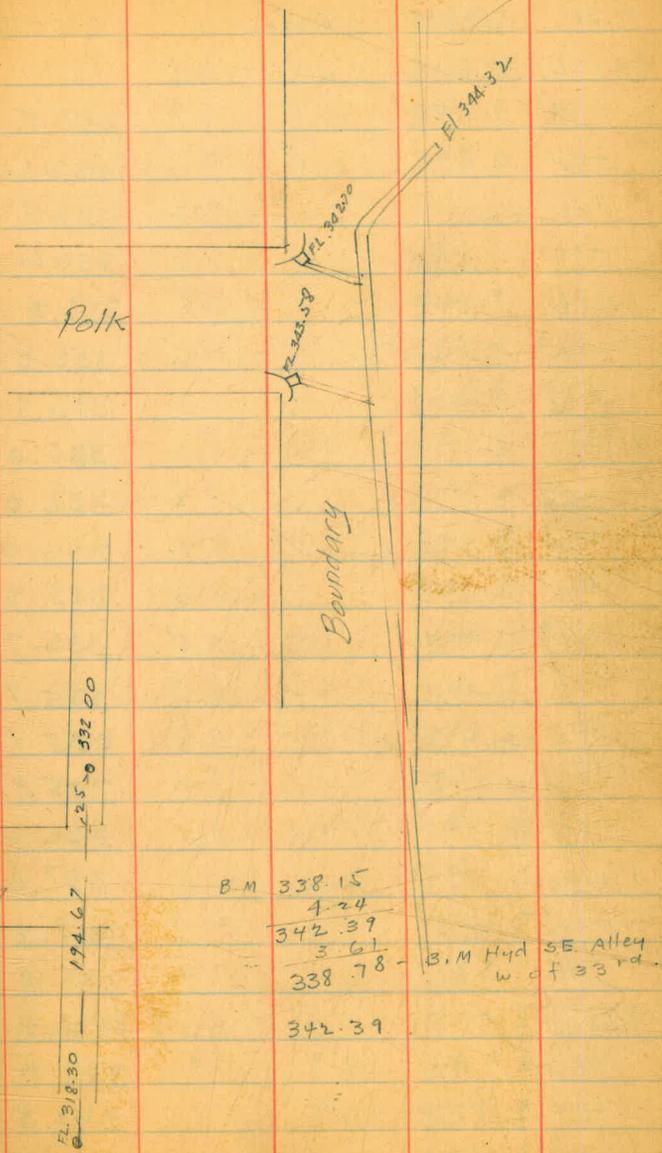
Lakeside P. be Line

B.M.	5.23	378.24		373.01
Top Lakeside line at int.			7.88	370.36



367.86

M.H.	Alley W of Illinois & Howard	11.74	356.12
M.H.	" " " " " "	9.67	358.19
T.P.	1.47	365.07	4.26
	level of 6" Sewer - N-S		
D.M.H.	Alley W of Iowa & Howard	13.98	351.09
	level of 10" Sewer E-W.		
	" " " " " "	16.48	349.59
M.H.	Alley W of Iowa S Howard	11.79	353.28
T.P.	7.03	368.62	3.48
M.H.	Alley W of Boundary & Howard	21.36	347.26
M.H.	" " " " " "	22.95	345.67
T.P.	1.08	368.42	1.28
	SE 7' back Boundary & Change.		
B.M.		8.42	
T.P.	0.12	356.11	12.43
T.P.	5.89	352.34	9.66
	30" NW. cor	9.64	342.70
	Inlet 30" S.P. N Polk E Boundary	8.02	344.32
	18" S.W. cor	8.76	343.58



B.M. 338.15  
 4.24  
 342.39  
 3.61  
 338.78 - B.M. Hyd SE Alley  
 W of 33rd.  
 342.39

Profile from 912+00 Forward.

14

B.M		344.24		335.50	NW 41st & W 1st	917+25		344.24		1.1	343.1
912+26	BC.		6.5	337.7	✓	+40				1.6	342.6
+38			6.8	337.4	✓	+50				1.3	342.9
+50			7.1	337.1	✓	+54	W Paw Central	✓		1.2	343.0
+62	EC.		7.3	336.9	✓	918+00	H.O.G	347.39	0.91		343.33
+74			7.6	336.6	✓	+50			4.3		343.1
+86			7.9	336.3	✓	919+00			4.5		342.9
+94.5	EL. 41st		8.2	336.0	✓	+50			4.7		342.7
+98			8.3	335.9	✓	920+00			5.1		342.3
913+10			8.2	336.0	✓	+50			4.9		342.5
+22			8.2	336.0	✓	+53	E Paw 40th		5.0		342.4
+34			8.2	336.0	✓	+67			5.6		341.8
+46			8.3	335.9	✓	921+00			4.7		342.7
+58			8.5	335.7	✓	+19			5.1		342.3
+70			8.5	335.7	✓	+33	W Paw 40th		4.7		342.7
+74	W Paw 41st		8.5	335.7	✓	+50			4.8		342.6
+82			8.3	335.9	✓	922+00			5.4		342.0
+94	EC.		8.0	336.2	✓	+50			6.0		341.4
914+50			6.6	337.6	✓	923+00			6.4		341.0
915+00			5.4	338.8	✓	+50			6.9		340.5
+50			4.4	339.8	✓	924+00			7.5		339.9
916+00			3.3	340.9	✓	+33	E Paw 39th		7.9		339.5
+50			1.7	342.3	✓	+50			8.0		339.4
+74	E Paw Central.		1.7	342.5	✓	+77			8.1		339.3
+88			2.1	342.1	✓	925+00			8.6		338.8
917+00			1.5	342.7	✓	+14	W Paw 39th		9.0		338.4



352.74 ✓

940+50			5.1	347.6	✓
941+00			5.0	347.7	✓
+50			4.6	348.1	✓
942+00			4.6	348.1	✓
+50			4.3	348.4	✓
943+00			4.1	348.6	✓
+32	E Paw Wilson		4.2	348.5	✓
+46			4.6	348.1	✓
+50			4.5	348.2	✓
+72			4.1	348.6	✓
944+00			4.1	348.6	✓
+12	W Paw Wilson		3.6	349.1	✓
+50	5.17	354.89	3.02	349.72	✓
945+00			4.9	350.1	✓
+50			4.2	350.7	✓
946+00			3.3	351.6	✓
+50			2.9	352.0	✓
947+00			2.3	352.6	✓
+12	E Paw 35 <sup>th</sup>		2.1	352.8	✓
+50			2.2	352.7	✓
+92	W Paw 35 <sup>th</sup>		2.6	352.3	✓
948+00			2.8	352.1	✓
+50			5.5	349.4	✓
949+00			8.3	346.6	✓
+50			10.4	344.5	✓
950+00			12.3	342.6	✓

16

354.89 ✓

T.P.	0.54	342.46	12.97	341.92	✓
950+50			2.3	340.2	✓
+91 <sup>E</sup>	E Paw. Swift.		4.7	337.8	✓
951+00			4.7	337.8	✓
+08			5.2	337.3	✓
+50			5.4	337.1	✓
Swift & Lightman					
E.M.			5.08	337.38	✓
+72	W Paw Swift.		5.8	336.7	✓
952+00			7.6	334.9	✓
+50			11.5	331.0	✓
T.P.	0.75	330.23	12.98	329.48	✓
953+00			3.0	327.2	✓
+50			6.5	323.7	✓
954+00			10.4	319.8	✓
+09			10.7	319.5	✓
+28			13.0	317.2	✓
+30			12.5	317.7	✓
+40			12.2	318.0	✓
+58 <sup>84</sup>	L.		13.5	316.7	✓
+72			12.7	317.5	✓
+77			11.1	319.1	✓
+92			10.9	319.3	✓
955+00			9.5	320.7	✓
+18			8.9	321.3	✓
+24			9.4	320.8	✓
+50			8.3	321.9	✓

330.23

956+00			6.3	323.9	✓
+50			4.6	325.6	✓
957+00			2.7	327.5	✓
T.P.	9.46	336.97	2.72	327.51	✓
+50			8.2	328.8	✓
958+00			6.8	330.2	✓
+50			4.8	332.2	✓
	S of Univ. on Wabash.				
B.M.	N.W. cor. PM. Dairy Milk rock	2.69		334.28	✓
B.M.	6.11	340.37		334.28	
959+00			6.6	333.8	✓
+01E	S.Paw Univ.		6.5	333.9	✓
+23E	rail		5.16	335.23	✓
+29E	"		5.02	335.37	✓
+35E	"		4.81	335.58	✓
+41E	"		4.63	335.73	6✓
+50	"		4.8	335.6	✓
+64			4.6	335.8	✓
+77	N.L. Univ.		3.8	336.6	✓
960+00			2.7	337.7	✓
+50			0.87	339.52	✓
	(18")				
E end	culvert Neb Univ.		2.43	337.96	✓
W "			9.72	330.67	✓
	9.64	349.16		339.52	
961+00			8.0	341.2	✓
+50			6.2	343.0	✓
+70	S.L. Lincoln				

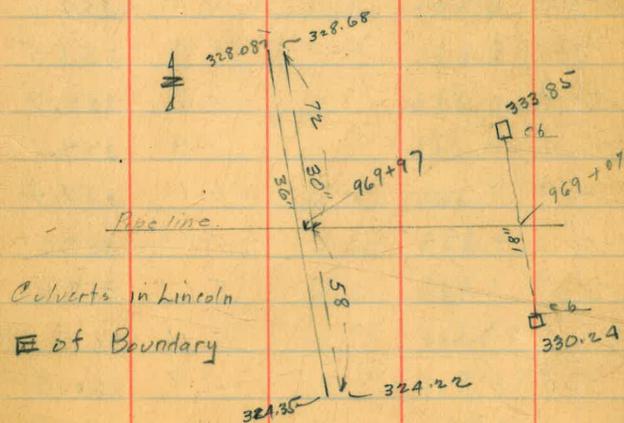
17

349.16

962+07 <sup>22</sup>	L		5.4	343.8	✓
M.H. & Lincoln	app	962+23	10.30	338.86	✓
+50			5.4	343.8	✓
+66	W.L. Wabash		7		
963+00			5.9	343.3	✓
+50			6.4	342.8	✓
964+00			7.0	342.2	✓
+50			7.6	341.6	✓
	(964+78)				
M.H. & Lincoln	Alley W. of Wabash		12.06	337.10	✓
965+00	1.23	342.25	8.14	341.02	✓
+50			1.7	340.5	✓
966+00			2.4	339.8	✓
+38 <sup>1/2</sup>	L		2.8	339.4	✓
+50			2.8	339.4	✓
+60 <sup>50</sup>	EL 33rd.		2.9	339.3	✓
967+00			3.7	338.5	✓
+43	W.L. 33rd		4.8	337.4	✓
+50			4.9	337.3	✓
968+00			5.3	336.9	✓
+50			5.5	336.7	✓
+77	Alley W. of 33rd		5.8	336.4	✓
969+00			5.7	336.5	✓
+50			23.95	318.30	✓
M.H. Alley W. of 33rd S. Lincoln			4.68	337.57	✓
970+00	9.86	347.43	7.7	339.7	✓
+50			6.6	340.8	✓
+76	EL Boundary				

347.43 ✓				
971+00		6.3	341.1 ✓	
+13 <sup>02</sup> L		5.9	341.5 ✓	
+50		5.9	341.5 ✓	
+64 N. Line Lincoln.		5.6	341.8 ✓	
972+00		5.1	342.3 ✓	
+50		4.7	342.7 ✓	
973+00		4.4	343.0 ✓	
+50		4.0	343.4 ✓	
974+00		3.7	343.7 ✓	
+50		3.3	344.1 ✓	
975+00		3.0	344.4 ✓	
+50		3.0	344.4 ✓	
976+00		2.6	344.8 ✓	
+28 <sup>33</sup> L		2.4	345.0 ✓	
+50		2.2	345.2 ✓	
977+00	10.22	1.91	345.52 ✓	355.74 ✓
+50		9.8	345.9 ✓	
977+96 S. Line Polk.		9.6	346.1 ✓	
978+00		9.4	346.3 ✓	
+50		9.1	346.6 ✓	
978+76 N. Line Polk.		8.3	347.4 ✓	
979+00		6.5	349.2 ✓	
+50		4.6	351.1 ✓	
980+00		2.8	352.9 ✓	
+50		1.1	354.6 ✓	
981+00				
T.P.	12.78	0.30	355.44 ✓	368.22 ✓

368.22 ✓				
981+50		11.7	356.5 ✓	
982+00		9.9	358.3 ✓	
+19 Saline Orange		9.3	358.9 ✓	
+50		8.5	359.7 ✓	
983+00		7.1	361.1 ✓	
+50		5.6	362.6 ✓	
984+00		4.0	364.2 ✓	
+50		2.3	365.9 ✓	
985+00 So. line Howard		0.6	367.6 ✓	
985+32 <sup>92</sup> L		0.0	368.2 ✓	
B.M. on Orange		8.19	360.03 ✓	360.00



B.M.	12.32	372.32	360.00	7 track SE Orange's Boundary	994+00	365.54	3.7	361.8	✓	
985+58			4.9	367.4	+50		3.2	362.3	✓	
+72			4.5	367.8	995+00		2.8	362.7	✓	
986+00			5.3	367.0	+50		2.3	363.2	✓	
+50			6.8	365.5	996+00		1.8	363.7	✓	
987+00			8.2	364.1	+32	EL.	1.5	364.0	✓	
+50			9.8	362.5	+44		2.0	363.5	✓	
988+00			10.8	361.5	+50	8.33	372.07	1.80	363.74	✓
+50			12.0	360.3	+71		7.5	364.6	✓	
T.P.	5.37	365.54	12.15	360.17	+97		8.0	364.1	✓	
+72	EL. Iowa		5.6	359.9	997+00		7.9	364.2	✓	
+84			6.0	359.5	+12		7.6	364.5	✓	
989+00			6.0	359.5	+50		7.3	364.8	✓	
+23			6.4	359.1	998+00		6.9	365.2	✓	
+38			7.0	358.5	+50		6.4	365.7	✓	
+50			6.8	358.7	999+00		6.1	366.0	✓	
990+00			6.4	359.1	+50		5.7	366.4	✓	
+50			6.1	359.4	1000+00		5.4	366.7	✓	
991+00			5.9	359.6	+13	EL 30 <sup>th</sup>	5.2	366.9	✓	
+50			5.6	359.9	1000+50		5.0	367.1	✓	
992+00			5.4	360.1	+55 <sup>2</sup>	rail	4.88	367.19	✓	
+50			4.9	360.6	+60	"	4.86	367.21	✓	
993+00			4.6	360.9	1000+92	W.L 30 <sup>th</sup>	4.7	367.4	✓	
+32			4.2	361.3	1001+00		4.8	367.3	✓	
+50			4.2	361.3	1001+50		4.4	367.7	✓	

		✓			
		372.07			
1002+00			4.0	368.1 ✓	
+50			3.6	368.5 ✓	
1003+00			3.1	369.0 ✓	
+50			2.8	369.3 ✓	
+91	E.L. Kansas ✓		2.2	369.9 ✓	
1004+00	8.04	379.96	2.15	369.92 ✓	
+50			7.6	370.4 ✓	
+71	W.L. Kansas		7.5	370.5 ✓	
1005+00			7.5	370.5 ✓	
+50			7.0	371.0 ✓	
1006+00			6.6	371.4 ✓	
+50			6.1	<del>371.4</del> ✓	
1007+00			5.7	372.3 ✓	
+50			5.2	372.8 ✓	
+71	E.L. Utah		5.0	373.0 ✓	
1008+00			4.6	373.4 ✓	
+50			4.0	374.0 ✓	
+51	W.L. Utah		4.0	374.0 ✓	
1009+00			4.4	373.6 ✓	
+50			4.5	373.5 ✓	
1010+00			4.7	373.3 ✓	
+50			4.8	373.2 ✓	
1011+00			5.0	373.0 ✓	
+51	E.L. Idaho		5.1	372.9 ✓	
+64			5.7	372.3 ✓	

		✓				
		379.96				
1011+88			5.2	372.8 ✓		
1012+00			5.4	372.6 ✓		
+075			5.6	372.9 ✓		
+075	eb		5.1	372.9 ✓		
+50			3.0	375.0 ✓		
SE Idaho Howard			5.03	372.93 ✓	373.01	
B.M.	7.15	380.16				
1013+10 <sup>26</sup>	L		5.1	375.1 ✓		
+42 <sup>26</sup>	riser.		4.8	375.4 ✓		

Q EL 337.10  
Lincoln

270

Hyd SE corner west to bush.

B.M. 0.08 343.93

343.85

B.M. 4.51 349.35 344.84

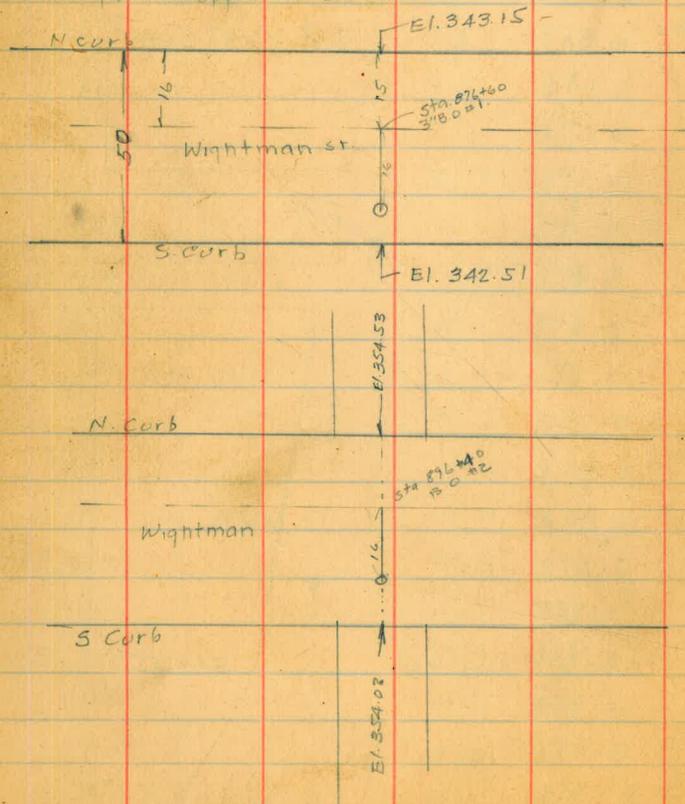
3cb Wightman opp B.O.#1 6.78 342.51

Neb " " " 6.20 343.15

B.M. 3.83 359.22 355.39

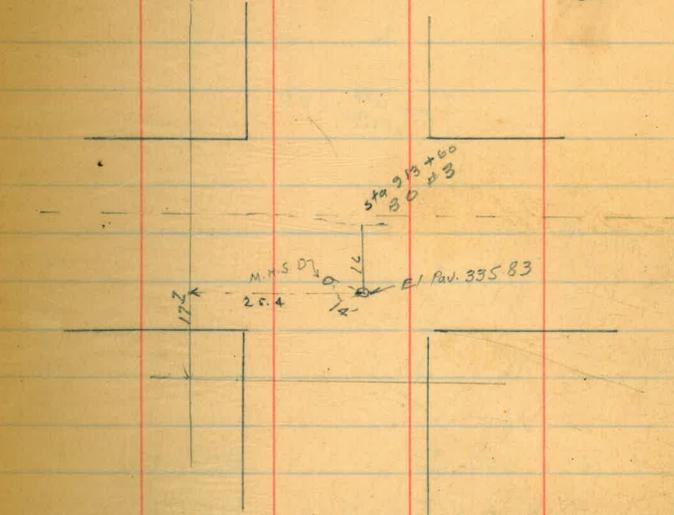
Neb Wightman opp B.O.#2 4.69 354.53

Sob Wightman opp B.O.#2 5.20 354.02



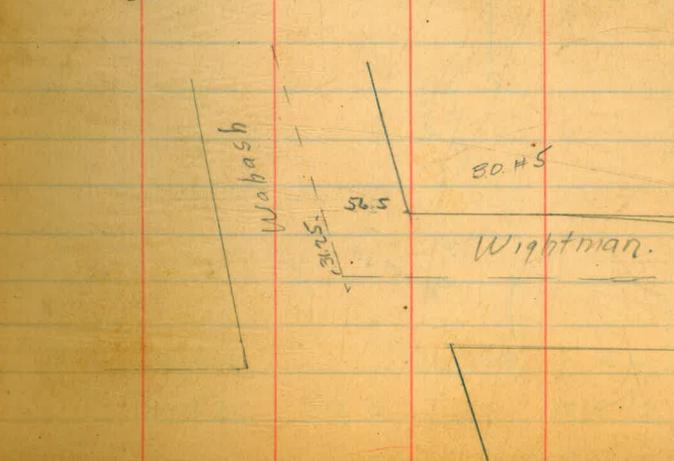
B.M. 5.97 341.49 335.50

Par M.H. B.O.#3 5.66 335.83



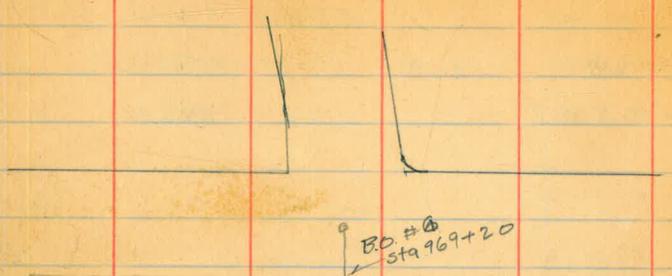
B.M. 5.16 324.82 319.66

Tob M.H. B.O.#4 6.05 318.77 ✓



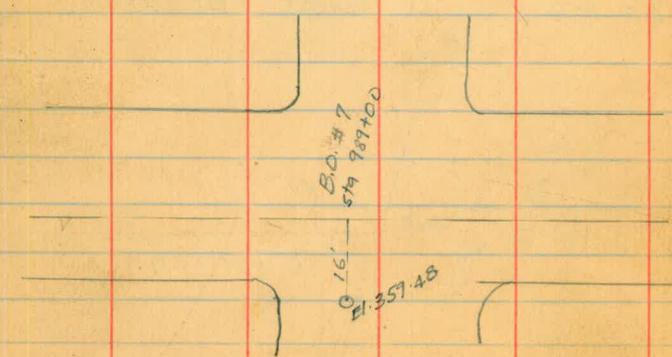
B.M.	2.02	352.76	350.74
FL. Sewer		11.76	341.00
top W.M.	7.22	345.54	

345.54
6
344.94
341.7
3.24



B.O. #6  
Sta 969+20

B.M.	470	342.85	338.15
Par 10' S of top of pipeline	7.09	335.76	
Par 16' N of top of pipeline	6.17	336.68	



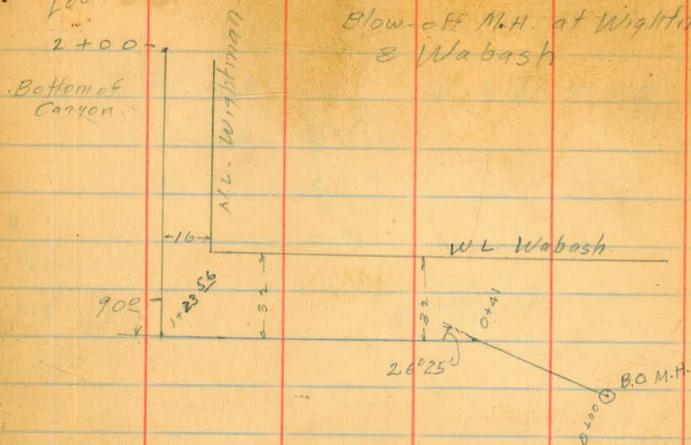
B.O. #7  
Sta 987+00

16'  
El. 357.48

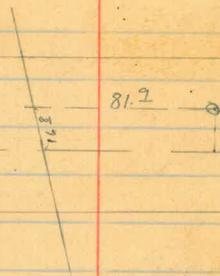
B.M.	1A3	365.03	363.60
Par MH B.O. #7	5.55	359.48	

5/6/30  
Loudon

Profile for Drain of  
Blow-off M.H. at Wightman  
& Wabash



Cut stake 850+70	0.84	318.64	317.8
0+00		1.0	317.6
0+41		6.1	312.5
1+23 <sup>55</sup>		8.6	310.0
1+44		10.5	308.1
1+72		18.8	299.8
1+92		23.6	295.0
2+00		30.0	288.6



342.87  
12.64  
330.23

342.80  
7.05  
333.84  
330.23  
3.59

331.26  
331.00  
327.7  
3.3

332.78  
4.11  
342.89

515 | .07  
3.590  
7603

14.5

51.5

14.5  
00  
1.015

972+50  
Cutstake

4.80

972+50

+60

+90

+89

+97

973+08

+16

+23

+34

+50

+74

+80

974+00

Profile in Trench for Volume  
of Red Pan lect. by Machine

24

342.8

12.4

11.6

10.3

10.2

11.0

11.3

11.3

10.3

9.8

10.1

10.3

12.1

12.3

gardage under Vind. AUC.

$$6 \left[ (10 \times 7.6 \times 2.5) - 4 \times 7.6 \right]$$

Measurement of Pipe in Place.

36" Pipe  
C.I.

	1-3' flange fitting.	
33.83	1- 30" Gate Valve	
36.05	2- 36"-30" reducers	
445.70	Bends	
437.72	Bends	865.00
345.67	Bend	4.00 ft.
4432.52	M.H. Tee	41st
78.37	B.O. Fitting	<u>2' of E.L.</u>
1490.74	B.O. fitting 38 <sup>th</sup>	
2582.37	Bends Wabash	
4.09	B.O. fitting Wabash	
12.00	Valve assembly	
6.00	M.H. Tee	
701.58	Bends Lincoln Wabash	
423.17	Bend in Lincoln	
282.75	B.O. Lincoln	
175.85	Bend Lincoln & Bond	
1402.80	Bend Bond & Howard	
377.55	B.O. Iowa	
720.40	1 <sup>st</sup> bell W. of E.L. Ohio.	
1581.20	Last full length E. of M.H. Tee W. of Wabash	
22.83	to reducer	
15593.18	1- 36" x 30" x 3' reducer	
1080.93	2- 30" Gate Valves	
74512.25	1- 90° - 36"-30" L	
	1- M.H. Tee	

Includes 250' + 300' head.  
300' head in p. 27

to sta 966 + 38<sup>1/2</sup>  
11029.80 feet of 36" C.I. Pipe.  
1- 3 x 36" flange fitting  
2- 32 bends  
4- 1/16 "  
3- 1/8 "  
1- 1/4 "  
2- 1/60 "

8' No. Valve Box Wabash x Wrightman.

Pavement set out by Gas Co.

alley Lincoln W. of 33rd 5.9 ft.  
 alley Howard W. of Illinois 58.8' (18.5 x 4)  
 alley " W of Iowa 7.2' "  
 Boundary at orange 3.0' "  
 alley w of Ohio 11.1' "  
 alley W of 30th 10.0' "  
 alley W of Kansas 30.0' (19.5 x 3)

Skrawn in  
 F.B. 1391

Measurement of 300 ft H pipe 27

36" C.I.

300 ft Pipe beg. at 926+60

204.50

264.80 End 931+30

343.92

257.71 Beg. 952+07

1070.93 = Total 300' 36" C.I. Pipe.

~~10.00~~

1080.93 " " " " "

9.0 }  
 10.0 }  $\pm$  Meas. Pav. omitted Univ Ave.

Gate (9.3 x 25 x 1.) Between track Univ Ave.

9.0  $\pm$  Meas. Pav. Omitted 30<sup>th</sup> St.

Lengths of fittings

Sta 1012 + 54.35 E. face of gate.

Tee 36"-30" 5.05

36-30" reducer 3.63

B.O fitting 2.17

M.H. Tee 2.88

Gate at Ubash & Light. 1.31

Reducers at Ubash & Light. 3.56

Gate on Lantana. 3.10

2.5cm -  
Tangents  
Check against  
sta. Distances of

955+53 <sup>45</sup>	11.00
860+53 <sup>21</sup>	5.92
865+00 <sup>83</sup>	10.60
868+53 <sup>97</sup>	8.97
954+58 <sup>84</sup>	17.83
962+07 <sup>72</sup>	10.27
966+38 <sup>12</sup>	5.92
971+13 <sup>08</sup>	17.83
985+32 <sup>77</sup>	17.83

855+12 <sup>05</sup> Flange fitting	3.00
Gate in Lantana	10.30
5 B.O.s @ 2.17	10.85
3 M.H. Tees @ 2.88	8.64
Gate at Nabashell W/fit.	8.43
36"-30" Tee at Reservoir	4.27
Reducers at Reservoir	3.63
Space in Store E of Swift	.33

155.62

Pipe Measured 1559.18

Total 15748.80

Sta of End of reducer at Reservoir

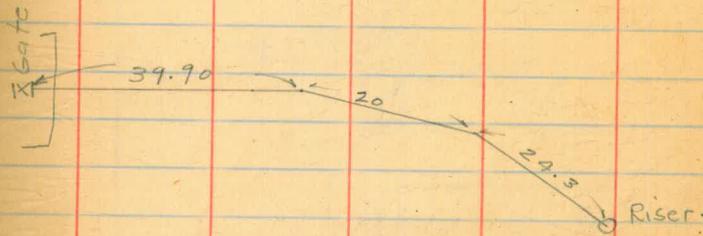
(Tied from F.C. sta 1011+58 96.35)

1012+54<sup>35</sup>

Hor Dist. from Sta 855+12<sup>05</sup> = 15,742.30

Pipe Measurements

30" Steel Pipe at UH Reservoir.



Nibble from gate to lakeside line 2.75

39.90

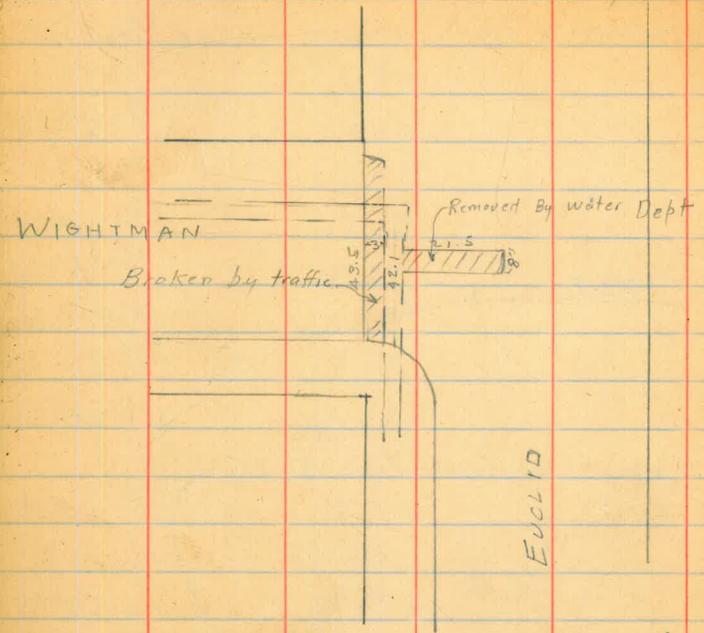
20

29.30

2.75

86.95 = Total 30" steel pipe

Pavement - Euclid & Wightman.















36

37





















48

49







53

53

54

55



56

57



88

59



60

61





63

64





67









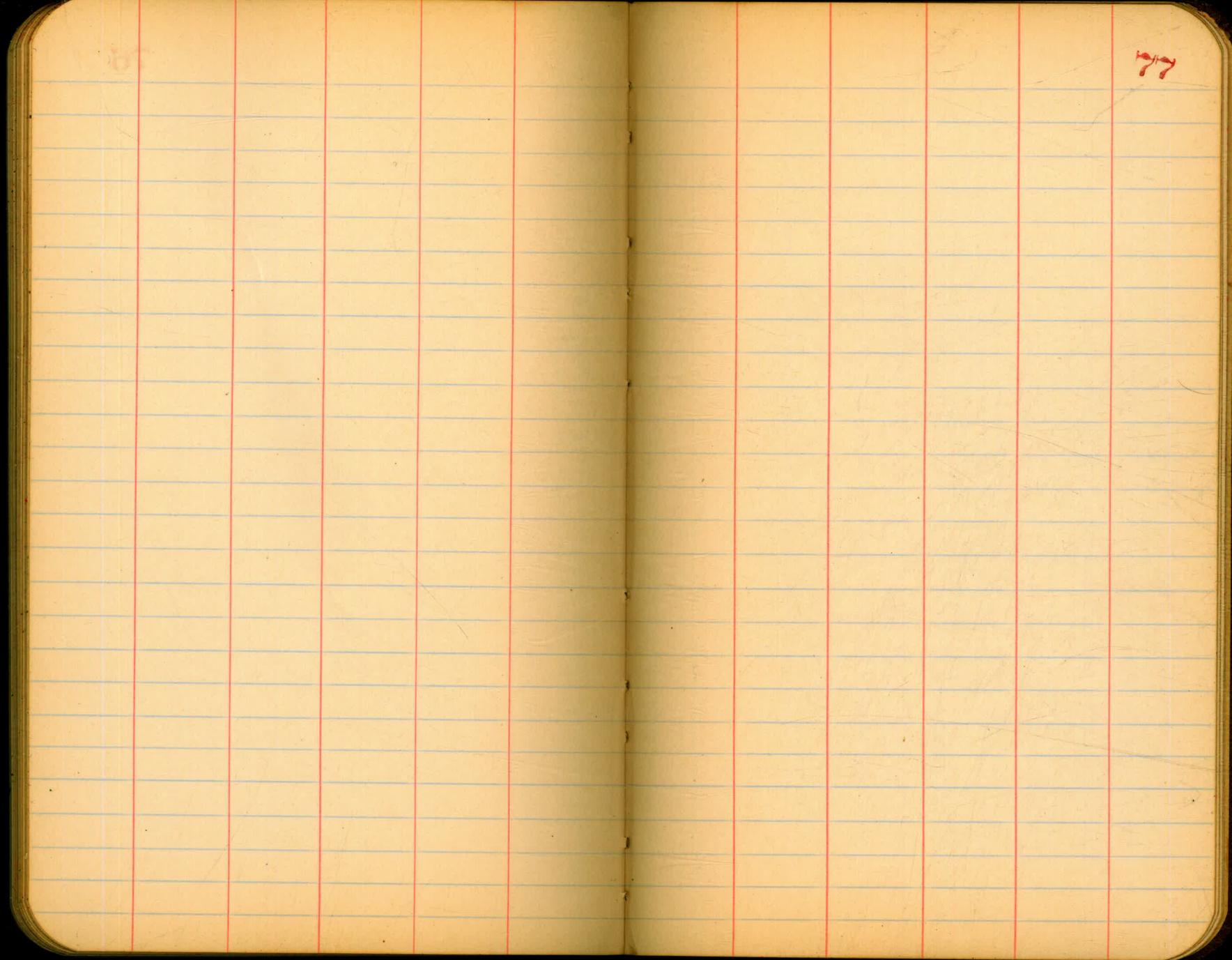




74

75

76

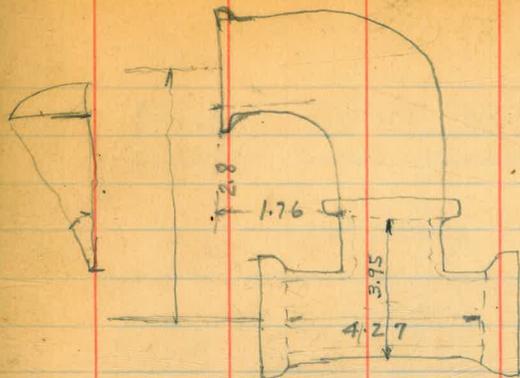


77

78

988+50

963+70 pipe.



79

1.76  
7.7  
- 7.8  
2.8  
3.58

DIRECTIONS FOR USE OF TABLES

TABLE No. 1.

Distance of slope stake from side or shoulder stake for any width roadway, slope 1 1/2 to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body

of table in same row and column gives distance from side stake to slope stake. If ground is not

level, the side stake and slope stake, lower target by the amount if cut, or higher if fill. Add this amount

to cut or fill and find distance in table. Set up rod at this point and line of sight should cut target.

necessary.

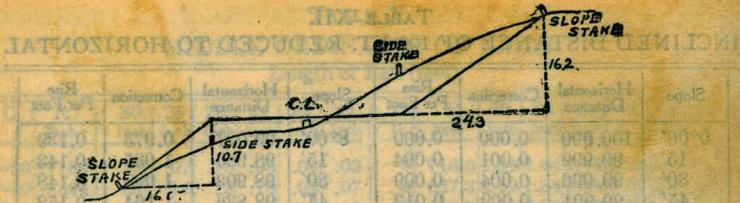
necessary.

TABLE No. 2.

To find Tangent and External for curve of any other degree, divide by degree of curve and add correction found in column of corrections.

Degree of curve with a given  $L$  may be found by dividing tangent (or external), opposite  $L$  by given tangent (or external).

The distance from a point on the tangent to the curve is very nearly the square of the tangent length divided by twice the radius.



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.

SLOPE 1 1/2 TO 1. ROADWAY OF ANY WIDTH.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.00	0.15	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	0
1	1.50	1.65	1.80	1.95	2.10	2.25	2.40	2.55	2.70	2.85	1
2	3.00	3.15	3.30	3.45	3.60	3.75	3.90	4.05	4.20	4.35	2
3	4.50	4.65	4.80	4.95	5.10	5.25	5.40	5.55	5.70	5.85	3
4	6.00	6.15	6.30	6.45	6.60	6.75	6.90	7.05	7.20	7.35	4
5	7.50	7.65	7.80	7.95	8.10	8.25	8.40	8.55	8.70	8.85	5
6	9.00	9.15	9.30	9.45	9.60	9.75	9.90	10.05	10.20	10.35	6
7	10.50	10.65	10.80	10.95	11.10	11.25	11.40	11.55	11.70	11.85	7
8	12.00	12.15	12.30	12.45	12.60	12.75	12.90	13.05	13.20	13.35	8
9	13.50	13.65	13.80	13.95	14.10	14.25	14.40	14.55	14.70	14.85	9
10	15.00	15.15	15.30	15.45	15.60	15.75	15.90	16.05	16.20	16.35	10
11	16.50	16.65	16.80	16.95	17.10	17.25	17.40	17.55	17.70	17.85	11
12	18.00	18.15	18.30	18.45	18.60	18.75	18.90	19.05	19.20	19.35	12
13	19.50	19.65	19.80	19.95	20.10	20.25	20.40	20.55	20.70	20.85	13
14	21.00	21.15	21.30	21.45	21.60	21.75	21.90	22.05	22.20	22.35	14
15	22.50	22.65	22.80	22.95	23.10	23.25	23.40	23.55	23.70	23.85	15
16	24.00	24.15	24.30	24.45	24.60	24.75	24.90	25.05	25.20	25.35	16
17	25.50	25.65	25.80	25.95	26.10	26.25	26.40	26.55	26.70	26.85	17
18	27.00	27.15	27.30	27.45	27.60	27.75	27.90	28.05	28.20	28.35	18
19	28.50	28.65	28.80	28.95	29.10	29.25	29.40	29.55	29.70	29.85	19
20	30.00	30.15	30.30	30.45	30.60	30.75	30.90	31.05	31.20	31.35	20
21	31.50	31.65	31.80	31.95	32.10	32.25	32.40	32.55	32.70	32.85	21
22	33.00	33.15	33.30	33.45	33.60	33.75	33.90	34.05	34.20	34.35	22
23	34.50	34.65	34.80	34.95	35.10	35.25	35.40	35.55	35.70	35.85	23
24	36.00	36.15	36.30	36.45	36.60	36.75	36.90	37.05	37.20	37.35	24
25	37.50	37.65	37.80	37.95	38.10	38.25	38.40	38.55	38.70	38.85	25
26	39.00	39.15	39.30	39.45	39.60	39.75	39.90	40.05	40.20	40.35	26
27	40.50	40.65	40.80	40.95	41.10	41.25	41.40	41.55	41.70	41.85	27
28	42.00	42.15	42.30	42.45	42.60	42.75	42.90	43.05	43.20	43.35	28
29	43.50	43.65	43.80	43.95	44.10	44.25	44.40	44.55	44.70	44.85	29
30	45.00	45.15	45.30	45.45	45.60	45.75	45.90	46.05	46.20	46.35	30
31	46.50	46.65	46.80	46.95	47.10	47.25	47.40	47.55	47.70	47.85	31
32	48.00	48.15	48.30	48.45	48.60	48.75	48.90	49.05	49.20	49.35	32
33	49.50	49.65	49.80	49.95	50.10	50.25	50.40	50.55	50.70	50.85	33
34	51.00	51.15	51.30	51.45	51.60	51.75	51.90	52.05	52.20	52.35	34
35	52.50	52.65	52.80	52.95	53.10	53.25	53.40	53.55	53.70	53.85	35
36	54.00	54.15	54.30	54.45	54.60	54.75	54.90	55.05	55.20	55.35	36
37	55.50	55.65	55.80	55.95	56.10	56.25	56.40	56.55	56.70	56.85	37
38	57.00	57.15	57.30	57.45	57.60	57.75	57.90	58.05	58.20	58.35	38
39	58.50	58.65	58.80	58.95	59.10	59.25	59.40	59.55	59.70	59.85	39
40	60.00	60.15	60.30	60.45	60.60	60.75	60.90	61.05	61.20	61.35	40
41	61.50	61.65	61.80	61.95	62.10	62.25	62.40	62.55	62.70	62.85	41
42	63.00	63.15	63.30	63.45	63.60	63.75	63.90	64.05	64.20	64.35	42
43	64.50	64.65	64.80	64.95	65.10	65.25	65.40	65.55	65.70	65.85	43
44	66.00	66.15	66.30	66.45	66.60	66.75	66.90	67.05	67.20	67.35	44
45	67.50	67.65	67.80	67.95	68.10	68.25	68.40	68.55	68.70	68.85	45
46	69.00	69.15	69.30	69.45	69.60	69.75	69.90	70.05	70.20	70.35	46
47	70.50	70.65	70.80	70.95	71.10	71.25	71.40	71.55	71.70	71.85	47
48	72.00	72.15	72.30	72.45	72.60	72.75	72.90	73.05	73.20	73.35	48
49	73.50	73.65	73.80	73.95	74.10	74.25	74.40	74.55	74.70	74.85	49
50	75.00	75.15	75.30	75.45	75.60	75.75	75.90	76.05	76.20	76.35	50

Computed by L. Leland Locke.

340.46  
5.62  
 346.09  
5.88  
 340.21  
5.14  
 345.35

345.35  
8.99  
 336.36 ← 858 + 33 = 1.43

345.35  
6.23  
 339.12 ← 859 + 07 = 2.33

345.35  
8.60  
 336.75 ← 860 + 66 = 49' off

340.46  
5.64  
 346.10  
6.19  
 339.91 ← 863 + 41 = 42' off

346.10  
6.05  
 340.05 ← 863 + 71 = 38' off

346.09  
9.46  
 336.63 ← 864 + 17 = 89' off

11.231



$$\begin{array}{r} 341.7 \quad .0151 \\ 340.46 \\ \hline 82 \mid 1.24 \\ \quad 82 \\ \quad \hline \quad 420 \\ \quad 418 \\ \quad \hline \quad 100 \end{array}$$

82

$$\begin{array}{r} 0151 \\ 82 \\ \hline 302 \\ 1208 \\ \hline 1438 \quad 2 \end{array}$$



352.26  
4.81

$$\begin{array}{r} 355.88 \\ 3.21 \\ \hline 358.49 \quad 11. \\ 2.22 \\ \hline 358.66 \end{array}$$

358.49  
79  
72

340.46 NEAR LANTANA + Euclid

36" 99 inches

