LEVEL BOOK

373

F.B.569

KEUFFEL & ESSER CO.

DRAWING MATERIALS
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NEW YORK.

CHICAGO. SAN FRANCISCO. ST. LOUIS.

TABLES FOR EXCAVATIONS AND EMBANKMENTS.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.
ROADWAY 18 FEET WIDE. SIDE SLOPES 1 TO 1.
FOR SINGLE TRACK EXCAVATION.

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

Calculated by Julien A. Hall, M. Am. Soc. C. E.

MICROFILMED 1964

Fairmount
Colonial + X Sts-
Highland-

64

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EAST SAN DIEGO CAL.

64.

Card Indexed Mar. 23, 1915.

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Ford Sept 14 1914
Grat ⊼ ⊽
Knuttson ⊽

Sta	Cuts + Fills Colonial +	H1	−	Elev.	West	Curb Grade	West P.L	East P.L	Curb Grade	East
B.M.				355.35						
S.L. University 0+40	5.45	360.80			00	356.40	4.35 Top Curb 356.45	4.65 Top Curb 356.15	356.10	00
1					00	356.20	4.6 356.2	4.8 356.0	355.90	+0.1
2					+0.2	355.89	4.7 356.1	4.9 355.9	355.59	+0.3
3					+0.2	355.58	5.0 355.8	6.2 354.6	355.28	−0.7
4					+0.8	355.26	4.7 356.10	6.2 354.6	354.96	−0.4
5					+1.4	354.94	4.5 356.3	5.3 355.5	354.64	+0.9
6					+1.4	354.63	4.8 356.0	5.4 355.4	354.33	+1.1
N.L. Klauber 6+40					+1.9	354.50	4.4 356.4	5.1 355.7	354.20	+1.5
							Klauber St			
South L Klauber 7+20					+2.1	354.2	4.5 356.3	5.0 355.8	353.9	+1.9
T.P. on 8 West 8			5.19	355.61	+1.7	353.96	5.19 355.6	4.6 356.2	353.74	+2.5
9	3.27	358.88			+1.0	353.66	4.3 354.6	3.4 355.5	353.54	+2.0
10					+0.7	353.36	4.8 354.1	4.0 354.9	353.34	+1.6
11					+0.9	353.06	4.9 354.0	4.4 354.5	353.14	+1.4
12					+0.8	352.76	5.3 353.6	4.7 354.2	352.94	+1.3
13					+1.0	352.46	5.4 353.5	5.4 353.5	352.74	+0.8
N.L. Castle 13+20					+0.6	352.40	5.9 353.0	5.4 353.5	352.70	+0.8
							Castle St			

Colonial Court

Sta	+	H.I.	−	Elev.		West	Curb Grade	West P.L.	East P.L.	Curb Grade	East
S.L. Cast I.C. T.P. on East								− 6.4	5.77		
14+00		358.88	5.77	353.11		+0.4	352.10	352.5	353.1	352.40	+0.7
								3.9	2.7		
15	1.39	354.50				00	350.6	350.6	351.8	350.9	+0.9
								5.3	4.5		
16						+01	349.1	349.2	350.0	349.4	+0.6
								6.9	5.9		
17						00	347.6	347.6	348.6	347.9	+0.7
								8.6	8.5		
18						−0.2	346.1	345.9	346.0	346.4	−0.4
T.P. 19 West.								9.83	9.4		
19			9.83	344.67		+0.1	344.6	344.7	345.1	344.9	+0.2
N.L. Howard					CR on BM			3.6	3.5		
20	2.72	347.39	2.99	344.40	SB 344.33	+0.7	343.1	343.8	343.9	343.40	+0.5
								Howard St			
S.L. Howard								4.3	4.2		
20+80						+0.3	342.8	343.1	343.2	343.10	+0.1
								4.5	4.7		
21						+0.2	342.68	342.9	342.7	342.96	−0.3
								5.2	5.0		
22						+0.1	342.11	342.2	342.4	342.27	+0.1
								5.9	6.1		
23						00	341.53	341.5	341.3	341.58	−0.3
								6.8	6.8		
24						+0.2	340.4	340.6	340.6	340.4	+0.2
T.P. on 25 West								7.9	7.8		
25			7.90	339.49		+1.5	338.0	339.5	339.6	338.0	+1.6
								2.9	2.4		
26	1.22	340.71				+2.3	335.5	337.8	338.3	335.5	+2.8
					BM S.B.			5.0	4.0		
26+80			6.66	334.05	333.98	+2.2	333.5	335.7	336.7	333.5	+3.2
								Clark	St -		
								7.8	6.5		
27+60						−0.1	333.0	332.9	334.2	333.0	+1.2
T.P. Rock -								9.2	8.3		
28			12.48	328.23		+1.1	330.45	331.5	332.4	330.45	+2.0

Colonial (Cont'd)

Sta	+	H.I.	−	Elev	
29	1.19	329.42			
T.P. on 30 East					
30			3.08	326.34	
30+80	0.08	326.42			
31+20					
31+60					
32			11.69	314.73	
30	2.76	317.49			
30+80					
33					
T.P. on 31+80 West			12.17	305.32	
31+20	0.67	305.99			
31+60					
32					
33					
33+60					
BM			8.17	297.82	ON 33+60 East
T.P.			0.11	305.88	
T.P.	12.97	318.85	0.02	318.83	
	10.88	329.71	0.11	329.60	

West	Curb Grade	West P.L.	East P.L.	Curb Grade	East
		4.2	8.9		− 6.0 − 3' out
+ 1.1	324.07	325.2	320.5	324.07	− 3.6
			3.1		
			326.3	317.70	+ 8.6
			3.6		
			322.8	312.60	+ 10.2
			7.2		
			319.2	310.5	+ 8.7
			10.1		
			316.3	309.2	+ 7.1
			11.69		
			314.7	308.36	+ 6.3
− 5.3 8.0'		3.1			
− 3.3	317.70	314.4			
− 8.6 − 14' out		12.2			
− 7.3	312.60	305.3			
			8.2		
			309.3	306.26	+ 3.0
− 6.9 − 10.4 out		4.8			
− 9.3	310.5	301.2			
− 8.2 12.3'		7.7			
− 10.9	309.2	298.3			
− 8.5 − 12.7'		7.8			
− 10.2	308.36	298.2			
− 10.5 15.7'		12.3			
− 12.6	306.26	293.7			
− 8.7 − 13' out		14.8	8.2		− 3.6 − 8.4 out
− 13.8	305.0	291.2	297.8	305.0	− 7.2
	* Center		St		

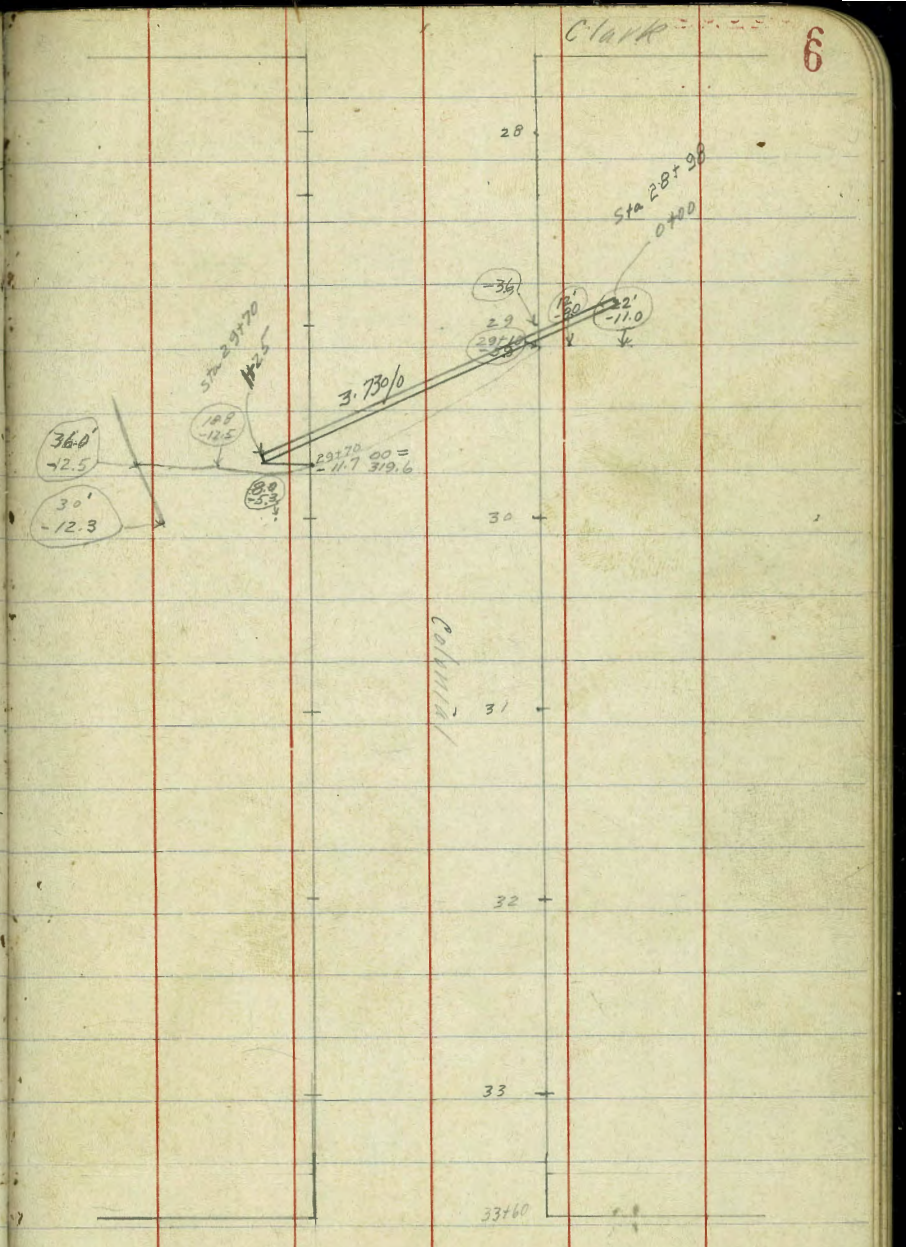
Colonial (cont'd)

Sta	+	H I	−	Elev	
B.M.	10.54	340.14	6.10	334.04	T.P. on 33+60 East
B.M. S.L. Center				297.82	
34+40	6.34	304.16			
35					
36					
T.P. on 37 East					
37			4.07	300.09	
35	12.26	312.35			
36					
37					
37+40					
38					
39					
40					
N.L. Chatham					
40+40					
Check			7.05	305.30	on 30+80 S.B. 305.32 West.

West	Curb Grade	West P.L.	East P.L.	Curb Grade	East
					Sept 16, 1914
		0.0	15.8		-12.5 18.7
-0.3	304.50	304.2	288.4	304.00	-15.6
			18.5 285.7	304.40	-22.4 -33.6 -18.7
			8.8 295.4	305.06	-22.8 -34.2 -9.7
			4.07 300.1	305.73	-7.4 11.1 -5.6
		3.6			
+3.8	305.0	308.8			
		4.0			
+2.6	305.83	308.4			
		2.2			
+3.5	306.66	310.2			
		1.3	10.4		-5.4 8.1
+4.1	307.00	311.1	302.0	306.00	-4.0
		1.8	8.6		
+4.4	306.20	310.6	303.8	305.20	-1.4
		2.3	5.2		
+5.2	304.87	310.1	307.2	303.87	+3.3
		3.6	4.1		
+5.3	303.53	308.8	308.3	302.53	+5.8
		4.0	4.2		
+5.4	303.00	308.4	308.2	302.00	+6.2

Grades - Cut & Fill - Culvert Colonial between Clark & Center

Sta	+	HI	pipe line	Elev Cut stake	ON Cut Stake 29+00 East Grade -
				320.5	
			10.2	8.7	
0+00	2.2	322.7	312.5	314.0	312.5 +1.5
			6.6	5.8	
0+20			316.1	316.9	311.80 +5.1
			10.2	9.7	310.10
0+50			312.5	313.0	+2.3
			6.1		
0+60			316.6		
			5.9	6.1	309.85
0+70 on New Fill			316.8	316.6	+6.8
			6.9		
0+82 on New Fill			315.8		
			4.6	4.6	309.10
0+90 on New Fill			318.1	318.1	+9.0
			5.2	5.6	308.55
1+05			317.5	317.1	+8.6
			14.9	14.7	307.8
1+25			307.8	308.0	+0.2



Cuts & Fills Clark (Dist 27)

Sta	+	H.I	−	Elev
				333.98
℄ Alley 1+35	6.02	340.00		
2 W.L. Colonial +70				
EL Colonial 3+30				
4 ℄ Alley 4+65				

Sept 18-1914
Graf Knudtson -

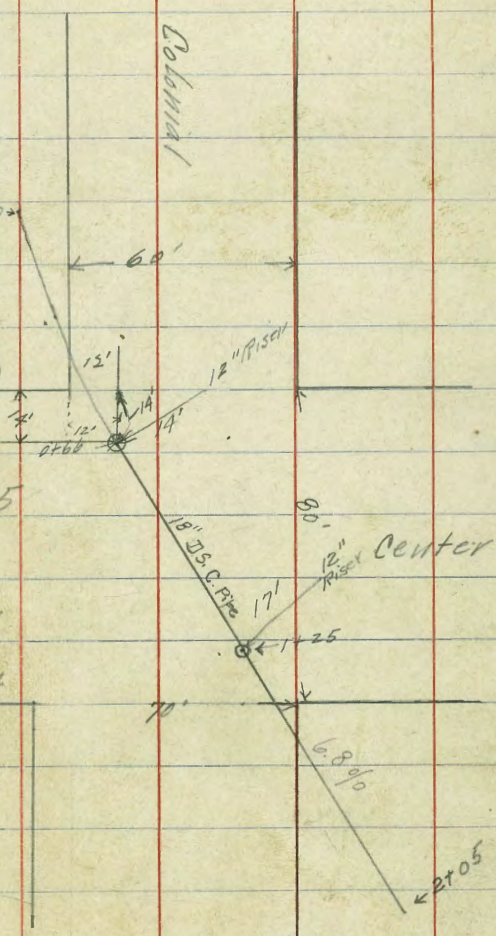
	Curb Grade	South P.L	North P.L	Curb Grade	
	Spike Pole	SW Clark & Colonial			
−2.6	331.8	9.2 329.2 330.8	6.2 333.8	333.10	+0.7
−0.5	332.4	8.1 331.6 331.9	5.3 334.7	333.3	+1.4
−0.1	333.0	7.1 332.9	4.5 Hub Gone 335.5	333.5	+2.0
+0.9	333.0	6.1 Hub Gone 333.9	3.4 Hub Gone 336.6	333.5	+3.1
+1.2	333.83	5.0 335.0	3.3 336.1	334.3	+2.4
−2.3	334.6	7.7 332.3	4.7 335.3	335.0	+0.3

Sept 19-1914
Ford
Knudtson
Graf

8

Location & Grade Culvert Center & Colonial

Sta	+	H I	—	Elev	Elev. 3' Back Oil 33+60 East	Grade	Cut or Fill 3' back —
B. M				297.82			
0+00	1.02	298.84	3.2	295.64	2.7 296.1	295.5	+0.6
0+10			4.0	294.8	2.9 295.9	294.82	+1.1
20			5.4	293.4	3.8 295.0	294.14	+0.9
30			7.2	291.6	5.5 293.3	293.46	-0.2
40			8.5	290.3	7.4 291.4	292.76	-1.4
50			8.5	290.3	7.6 291.2	292.08	-0.9
60			7.2	291.6	6.2 292.6	291.4	+1.2
66 Riser			6.2	292.6	5.3 293.5	290.95	+2.5
0+80			2.8	296.0	3.1 295.7	290.0	+5.7
95			2.3	296.5	2.1 296.7	289.0	+7.7
1+05			3.3	295.5	3.1 295.7	288.3	+7.4
1+25			12.4	286.4	11.3 287.5	286.9	+0.6
1+50			11.1	287.7	10.2 288.6	285.2	+3.4
1+75			13.2	285.6	12.8 286.0	283.5	+2.5
TP			12.80	286.04			
2+05	6.6	292.64	10.90	281.74	10.9 281.7	281.5	+0.2



A.H. Graf
L. Knudtson
9/28/14

	Levels on Howard (Colonial)										
	+	H.I.	−	Elev.		+ or −	Grade	North	South	Grade	+ or −
	4.29	348.62		344.33	N.E. of N.E. Howard Alley bet Fairmount & Colonial						
1+35						+1.1	342.4	5.1 343.5	6.0 342.6	341.6	+1.0
2+00						+1.1	342.74	4.8 343.8	5.4 343.2	342.2	+1.0
W.L. Colonial 2+70						+0.6	343.1	4.9 343.7	5.6 343.0	342.8	+0.2
E.L. Colonial 3+30						+0.4	343.4	4.8 343.8	5.5 343.1	343.1	0.0
4+00						+0.2	344.46	3.9 344.7	5.4 343.2	344.08	−0.9
+65						+0.9	345.45	2.9 345.7	4.5 344.1	345.05	−1.0
	Levels on Castle (Colonial)										
	6.66	356.41		349.75	N.E. Cor Fairmount & Colonial						
1+35	7.40	357.15				+0.5	350.9	5.8 351.4	6.8 350.4	350.25	+0.2
2+00						+0.9	351.65	4.7 352.5	5.9 351.3	351.18	+0.1
W.L. Colonial +70						+0.6	352.4	4.2 353.0	4.7 352.5	352.1	+0.4
E.L. Colonial 3+30						+0.7	352.7	3.7 353.4	4.1 353.1	352.4	+0.7
4						+0.3	352.9	4.0 353.2	4.0 353.1	352.6	+0.5
+65						+0.4	353.1	3.6 353.5	4.4 352.7	352.8	−0.1
	Levels on Klauber (Colonial)										
	5.24	360.59		355.35							
1+35						+0.3	355.0	5.3 355.3	5.8 354.8	354.55	+0.3
2+00						+1.7	354.75	4.1 356.5	5.6 355.0	354.38	+0.6

Levelson Klauber (Cont'd)

W.C. Colonial 2+70		360.59			
E.L. Colonial 3+30					
4					
+65					
	Check Levels on bench mark S.L. Klauber				
	bet Fairmount & Colonial				
	5.60	360.95		355.35	S.L. Klauber Fairmount & Colonial
T.P.			3.43	357.52	
	5.64	363.16			
B.M.			4.06	359.10	N.W. Cor Pauly & Steiner
	Cut & Fills Center E & W of Colonial				
B.M.	8.14	331.89		323.65	Hub SW Cor Cabrillo & Center
T.P.			12.67	319.22	
4+69.7 S 4+69.3 N.	1.17	320.39			
T.P.			12.26	308.13	
	0.56	308.69			
4+00					
T.P.			0.74	307.95	

for −	Grade	North	South	Grade	for −
		4.2	4.3		
+1.9	354.5	356.4	356.3	354.2	+2.1
		4.9	4.8		
+1.5	354.2	353.7	353.8	353.9	+1.9
		5.7	5.6		
+1.6	353.33	354.9	353.0	353.13	+1.9
		6.2	6.3		
+2.0	352.45	354.9	354.3	352.35	+2.0

for −	North Grade	North ←	South	South Grade → South	for −
		4.4	8.5		
+2.2	313.75	316.0	311.9	312.75	− 0.9
		9.0	7.7		
−9.7	309.37	299.7	301.0	308.37	−7.4

Center & ℄ W of Colonial

	+	H.I.	−	Elev.	
	11.75	319.70		307.95	
2+00					
1+33.9					
T.P.			0.93	318.77	
	7.47	326.24			
Curb at N.E. Fairmont & Center					
T.P.			0.71	325.53	
	9.96	335.49			
				(333.98)	Spike rote S.W. cor Clark & Colonial
B.M.			1.50	333.99	

+or−	Grade	North	South	Grade	+or−
		7.5	4.0		
+3.6	308.55	312.20	315.70	308.12	+7.6
		0.7	1.1	311.25 ✓	Should have been +7.4 ✓
+6.9	312.1	319.0	318.6	(311.75)	+6.8 ✓
		6.92			
		319.32			

Sta	Cut & Fill +	Stakes H.I.	Highland Ave to ℄ Center 0+00 = ℄ University −	Elev.		WEST Cut or Fill	WEST Cur6 Grade	WEST Elev. West Propline	EAST Elev East Propline	EAST Cur6 Grade	A.H. Grot / J. Knudsen 10/22/12 Cut or Fill
B.M.	5.56	360.91		355.35	Spike in pole ℄ Klauber bel Fair + Colonial						
T.P.			8.71	352.20							
	6.11	358.31									
S.L. University								4.7	6.2		
0+40						+1.1	352.5	353.6	352.1	352.0	+0.1
								2.8	4.3		
1+00						+1.5	354.0	355.5	354.0	353.5	+0.5
								2.8	3.6		
+50						+0.4	355.1	355.5	354.7	354.6	+0.1
								3.1	3.9		
2						+0.1	355.1	355.2	354.4	354.6	−0.2
								3.4	3.9		
+50						+0.3	354.6	354.9	354.4	354.1	+0.3
								4.1	4.8		
3						+0.1	354.1	354.2	353.5	353.6	−0.1
								4.7	5.2		
+50						0.00	353.6	353.6	353.1	353.1	0.00
								5.2	5.9		
4						0.00	353.1	353.1	352.4	352.6	−0.2
								5.6	6.8		
+50						+0.1	352.6	352.7	351.5	352.1	−0.6
								6.4	7.1		
5						−0.2	352.1	351.9	351.2	351.6	−0.4
								6.9	7.3		
+50						−0.2	351.6	351.4	351.0	351.1	−0.1
								6.7	7.7		
6						+0.5	351.1	351.6	350.6	350.6	0.00
								7.1	7.7		
N.L. Klauber +40						+0.5	350.2	351.2	350.6	350.2	+0.4
								Klauber			
								7.1	7.8		
S.L. Klauber T.P. or B.W. Cur 7+20			7.15	351.16		+0.4	350.8	351.2	350.5	350.5	0.00

Highland

Sta	+	HI	−	Elev
	6.58	357.74		351.16
7+50				
8				
+50				
9				
+50				
10				
10				
+50				
11				
+50				
12				
+50				
N.L. Castle 13+16.33				
S.L. Castle +96.33				
14+50 T.P. on East				
15			4.70	353.04
	3.44	356.48		
+50				

	WEST		EAST		
Cut or Fill	Curb Grade	West P. Line	East P. Line	Curb Grade	Cut or Fill
		6.4	7.0		
+0.4	350.93	351.3	350.7	350.63	+0.1
		5.9	7.2		
+0.7	351.15	351.8	350.5	350.85	−0.3
		5.7	7.1		
+0.6	351.38	352.0	350.6	351.08	−0.5
		5.1	7.0		
+1.0	351.60	352.6	350.7	351.30	−0.6
		4.8	6.3		
+1.1	351.83	352.9	351.4	351.53	−0.1
		4.3	5.9		
+1.4	352.05	353.4	351.8	351.75	0.00
		4.6	5.5		
+0.8	352.28	353.1	352.2	351.98	+0.2
		4.6	5.2		
+0.6	352.50	353.1	352.5	352.20	+0.3
		4.5	4.9		
+0.5	352.73	353.2	352.8	352.43	+0.4
		3.9	5.2		
+0.9	352.95	353.8	352.5	352.65	−0.1
		3.7	4.8		
+0.8	353.18	354.0	352.3	352.88	0.00
		4.0	4.2		
+0.2	3535	353.7	353.5	3532	+0.3
		Castle			
		4.7	5.0		
−0.2	3532	353.0	352.7	3529	−0.2
		5.1	4.6		
−0.1	352.69	352.6	353.1	352.41	+0.7
		4.8	4.7		
+0.7	352.21	352.9	353.0	351.96	+1.0
		3.9	3.7		
+0.9	351.74	352.6	352.8	351.51	+1.3

Sta	+	Highland HI	−	Elev
16		356.98		
+50				
17				
+50				
18				
+5				
19				
+50				
N.C. Howard #9695				
Sil. Howard 20+76.86				
21				
+50				
TP. on Post 22			11.12	345.36
	1.03	346.39		
+50				
23				
150				
24				

Cut or Fill	WEST Curb Grade	West P line	EAST East P line	Curb Grade	Cut or Fill
		3.9	4.1		
+1.3	351.26	352.6	352.4	351.06	+1.3
		4.3	4.2		
+1.3	350.79	352.1	352.3	350.61	+1.7
		4.4	4.3		
+1.7	350.31	352.0	352.1	350.16	+1.9
		5.0	4.8		
+1.7	349.84	351.5	351.7	349.71	+2.0 X
		5.5	5.3		
+1.6	349.36	351.0	351.2	349.26	+1.9
		6.4	5.7		
+1.2	348.89	350.1	350.8	348.81	+2.0
		6.0	6.3		
+2.1	348.41	350.5	349.6	348.36	+1.2
		8.1	7.2		
+0.5	347.94	348.4	348.3	347.91	+1.4
		8.8	8.2		
+0.2	3475	347.7	348.3	3475	+0.8
			Howard		
		9.7	9.2		
-0.2	347e	346.8	347.8	347e	+0.3
		10.4	9.6		
-0.5	346.56	346.1	346.9	346.59	+0.3
		11.4	10.6		
-0.6	345.69	345.1	345.9	345.76	+0.1
		12.5	11.1		
-0.8	344.82	344.0	345.4	344.93	+0.5
		3.1	1.8		
-0.6	343.95	343.3	344.6	344.10	+0.5
		4.0	2.2		
-0.7	343.08	342.4	344.2	343.27	+0.9
		4.9	3.3		
-0.7	342.21	341.5	343.1	342.44	+0.7
		5.8	4.2		
-0.7	341.34	340.6	342.2	341.61	+0.6

	Highland				West			East		
	+	H.I.	-	Elev.	Cut or Fill	Grade	West P. Line	East P. Line	Grade	Cut or Fill
							6.2	5.1		
24+50		346.39			-0.3	340.47	340.2	341.3	340.78	+0.5
							6.8	6.1		
25					0.00	339.60	339.6	340.3	339.95	+0.4
							8.1	6.5		
+50					-0.4	338.73	338.3	339.9	339.12	+0.8
							8.4	7.1		
26					+0.1	337.86	338.0	339.3	338.29	+1.0
							8.8	8.0		
+50					+0.6	336.99	337.6	338.4	337.46	+0.9
K.L. Clark							9.7	8.8		
+78.15					+0.2	336.5	336.7	337.6	337.0	+0.6
							Clark			
S.L. Clark							11.3	9.8		
27+58.15					-1.1	336.2	335.1	336.6	336.2	-0.1
							11.5	10.3		
28					-0.3	335.22	334.9	336.1	335.72	+0.4
T.P. on West							11.4	10.7		
+50			11.43	334.96	+0.9	334.08	335.0	335.7	334.58	+1.1
	1.87	336.83								
							1.9	1.5		
29					+2.0	332.94	334.9	335.3	333.44	+1.9
							2.4	2.0		
+50					+2.6	331.80	334.4	334.8	332.30	+2.5
							3.5	3.4		
30					+2.6	330.66	333.3	333.4	331.16	+2.2
							4.6	4.5		
+50					+2.7	329.52	332.2	332.3	330.02	+2.3
							6.0	5.4		
31					+2.4	328.38	330.8	331.4	328.88	+2.5
							8.8	6.4		
+50					+0.8	327.24	328.0	330.4	327.74	+2.7
							9.2	6.6		
32					+1.5	326.10	327.6	330.2	326.60	+3.6
							9.4	7.8		
+50					+2.4	324.96	327.4	329.0	325.46	+3.5

	Highland					West			East		
	+	H.I.	−	Elev.		Cut or fill	Grade	West P. line	East P. line	Grade	Cut or fill
								10.0	8.6		
33+		336.83				+3.0	323.82	326.8	328.2	324.32	+3.9
N.L. Center								9.7	11.2		
+58.15						~~+1.6~~	322.5	327.1	325.6	323.0	~~+2.6~~
								Center			
S.L. Center								13.9	12.2		
34+38.15						+1.4	321.5	322.9	324.6	322.0	+2.6
Tiffon Rock											
			1.25	335.58							
	3.57	339.15									
				(333.98)	Spike, pole S.W. Cor. Clark & Colonial						
			5.19	333.95							
	Check Levels at Centre.										
B.M.	7.28	330.93		323.65		Hub S.W. Cor.		Centre & Cabrillo			Graft Hyatt 12/28/14
N.E. Centre								5.3	3.9		
33+58						+3.1	322.5	325.6	327.0	323.0	+4.0
								8.0	6.3		
34+38								322.9	324.6		
								4.1	2.7		
33+00								326.8	328.2		

A.H. Graft
E. Hyatt
Oct 24-1914

Curb stakes on Colonial (Howard - Clark)

	+	H.I.	−	Elev.	
	4.39	338.37		333.98	
N.E. Cor Clark			4.87	333.50	
N.W. Cor Clark			4.87	333.50	
	3.63	347.96		344.33	
S.E Howard			4.86	343.10	
S.W. Howard			3.16	342.80	
	4.78	347.58		342.80	
300' S of Howard			~~4.38~~	340.80	
				344.33	
SE Howard Colonial	3.12	347.45	4.35	343.10	
West line Colonial 300's of SL Howard			6.65	340.80	

Curb stakes Clark - E. & W. of Colonial

BM Top Curb				333.98	
SE. Clark Fairmount	3.87	337.85	7.35	330.50	- 0.10
Top Curb NE " on Clark			5.28	332.57	- 0.13
SE " on Clark			7.25	330.60	
N.E "			5.15	332.70	
NW Clark Highland	5.90	339.88	3.38	336.50	
SW "			3.68	336.20	

Spike in pole S.W. Cor Clark & Colonial

Spike in pole N. of N.L. Howard bet Fair. & Colonial

S.W. Curb stake on Howard & Colonial

Spike Pole S.W. Clark & Colonial

A.H. Graf
F. Hyatt
11/2/14

	+	H.I.	−	Elev.		
	Curb stakes on Clark (Colonial)					
	3.86	337.84		333.98		Spike in pole S.W. Cor. Clark + Colonial
Clark S.E. Colonial			✓4.84	333.0		
Clark S.W. Colonial			✓4.84	333.0		
	5.31	338.31				S.E. Cor Colonial + Clark
Clark N.W. Colonial			4.81	333.5	to fit old curb 4.73 333.52	
SL Clark 2+00 Cut stake			6.75	331.56		
1+35 South			9.10	329.21		
1+35 North			44	333 9		
Clark N.E. Colonial			4.81	333.5		
	Curb stakes on Howard (Colonial)					
	6.13	351.49		345.36		T.P. on Sta. 22 E on Highland
Howard S.W. Highland			✓4.49	347.0		
Howard N.W. Highland			✓3.99	347.5		
	2.97	347.30		344.33		Spike in pole N. of H.L. Howard in Alley bet Fairmount + Colonial
Howard S.E. Colonial			✓4.20	343.1		
Howard S.W. Colonial			✓4.50	342.8		
Howard N.E. Colonial			3.90	343.4		
Howard N.W. Colonial			4.20	343.1		

A.H. Graf
R. Hyatt
11/2/14

Curb Stakes Colonial

Nov 4-1914
Ford
Hyatt
Grat

Sta	+	HI	−	Elev	
BM				344.33	Spike Pole Alley N of NL Howard Alley bet Howard Fairm
NE Howard Colonial	335	34768	✓ 4.28	343.40	
NW "			✓ 4.58	343.10	
BM				353.95	Spike Pole NE Highland Castle
SE Colonial Castle	389	357.84	✓ 5.44	352.40	
SW " "			5.74	352.10	
	210	5 0			

							South		North		
	Checking Cut+fill stakes Castle (Colonial)					+ or −	Grade	S.P.L.	N.P.L.	Grade	+or− A.H. Graf F. Hyatt 11/12/14
B.M.	7.44	357.19		349.75	Spike in pole N.E. Fairmount + Castle						
1+35						+0.15	350.25	6.8 350.4	5.8 351.4	350.9	+0.5
2						0.0	351.17	6.0 351.2	4.7 352.5	351.65	+0.85
V.L. Colonial +70						+0.4	352.1	4.7 352.5	4.2 353.0	352.4	+0.6
E.L. Colonial 3+30						+0.7	352.4	4.1 353.1	3.7 353.5	352.7	+0.8
4						+0.6	352.6	4.0 353.2	3.9 353.3	352.9	+0.4
+65						0.0	352.8	4.4 352.8	3.7 353.5	353.1	+0.4 Nov 19-1914 Fowl Hyatt ~~Graf~~
	Curb Stakes Colonial										
B.M.				355.35			Spike Pole ℄ Klauber Bet Fairmount + Colonial				
NE Colonial Klauber	5.20	360.55	6.35	354.20							
B.M.				349.75			" " NE Fairmount + Castle				
NE Colonial Castle	5.91	355.66	2.96	352.70							
NW " "			3.26	352.40							
				355.35							
SE Colonial Klauber	4.26	359.61	5.71	353.90							
SW " "			5.41	354.20							
NW "			5.11	354.50							

Curb grades on Colonial + Castle

	+	H.I.	−	Elev
B.M.	4.52	358.47		353.95
S.W. Highland Castle			5.27	353.2
N.W. Highland Castle			4.97	353.5
	4.55	358.50		353.95
S.E. Colonial Castle			6.10	352.4
S.W. Colonial Castle			6.40	352.1
N.E. Colonial Castle			5.80	352.7
N.W. Colonial Castle			6.10	352.4
	7.35	357.10		349.75
S.E. Fairmount Castle			8.70	348.4
N.E. Fairmount Castle			7.70	349.4

Curb grades on Klauber (Colonial)

	4.10	359.45		355.35
S.W. Highland Klauber	4		8.65	350.8 (350.7 curb grade)
N.W. Highland Klauber			7.75	351.7
	4.40	359.75		355.35
S.W. Colonial Klauber			(5.50 5.55	354.25) → to fit curb 354.2
S.E. Colonial Klauber			(5.81 5.85	353.94) → to fit curb 353.9

Spike in pole N.E. Cor Highland + Castle

A.H. Graf
G.F. Hyatt
Beach
11/27/18

Spike in pole N.E. Cor Highland + Castle

Spike in pole N.E. Cor Fairmount + Castle

Spike in pole S Klauber bet Fairmount + Colonial

A.H. Graf
G.F. Hyatt
Beach
11/27/18

Spike in pole S Klauber bet Fairmount + Colonial

52.1
Watts to 90
0.01 W.

Curb grades on Colonial + Klauber (Contd)

	+	H.I	−	Elev	
N.E Colonial Klauber		359.75	(to fit curb in 5.53) 5.55	354.22 354.2	51.46 wants to go 0.46 E
N.W Colonial Klauber			(to fit curb in 5.13) 5.25	354.62 354.5	7.94' wants to go 0.06 W
N.E. Fairmount Klauber			(to fit old curb) 4.32 4.25	355.43 355.5	
S.E. Fairmount Klauber			(to fit old curb) 4.82 4.85	354.93 354.9	

Finish Stakes Colonial

BM				333.98
SW Clark Colonial	4.38	338.36	5.36	333.00
S.E " "			5.36	
T.P.			12.50	325.86
T.P.	0.63	326.49	12.90	313.59
360' S of SL Clark 3F60	1.44	315.03	4.53	310.50
T.P.				313.59
NW Center Colonial	2.10	315.69	10.69	305.00
SW " "			11.19	304.50
NE " "			10.69	305.00
SE " "			11.69	304.00
132.50' W of WL Colonial on south-L Center-	7.66	312.16	0.81	311.25

Nail Pole SW Clark + Colonial

Dec 14-1914
Ford
Hyatt
Graf

Cut & Fill Stakes Klauber E & W. Highland.

	+	HI	−	Elev.
B.M.				355.35
5+00	3.37	358.72		
5+50				
W.L. Highland.				
6+00				
6+65				
E.L. Highland.				
7+00				
7+50				
℄ Alley.				
8+00				

Cut & Fill Stakes. Castle. E & W. Highland.

	+	HI	−	Elev.
B.M.				353.95
5+00	4.59	358.54		
5+50				
W.L. Highland.				
6+00				
E.L. Highland.				
6+65				
7+00				
7+50				
℄ Alley.				
8+00				

Hyatt & Graf. Dec 30, 14.

Cut or Fill.	Curb grade	South P.L.	North P.L.	Curb grade	Cut or Fill
Spike in pole – S.L. Klauber at alley bet. Fair. & Colonial.					
		(6.3)	(6.1)		
+1.5	351.94	353.4	352.6	352.0	+0.6
		(6.4)	(6.7)		
+0.9	351.37	352.3	352.0	351.35	+0.6
		7.6	(7.5)		
+0.3	350.8	351.1	351.2	350.7	+0.5
		8.2	8.1		
0.00.	350.5	350.5	350.6	350.2	+0.7
		8.2	8.2		
+0.5	350.04	350.5	350.5	349.83	+0.7
		8.6	8.3		
+0.7	349.41	350.1	350.4	349.31	+1.1
		9.0	8.2		
+0.9	348.78	349.7	350.5	348.79	+1.7

Hyatt & Graf. Dec. 30, 14

		South P.L.	North P.L.		
Spike in pole N.E. Castle & Highland.					
		5.2	4.9		
+0.1	352.9	353.3	353.6	353.20	+0.4
		5.1	4.9		
+0.4	353.05	353.4	353.6	353.35	+0.3
		ground 5.9	4.8		
	353.2	taken on ground. 352.6	353.7	353.5	+0.2
			5.1		
	352.9	Miniature Lake No Soundings taken. 6.1	353.4 6.2	353.2	+0.2
+0.8	351.61	352.4	352.3	351.88	+0.4
		7.4	7.6		
+1.3	349.78	351.1	350.9	349.99	+0.9
		8.2	9.2		
+2.4	347.95	350.3	349.3	348.10	+1.8

Cut & Fills Howard E. & W. Highland.

	+	H.I.	−	Elev.	
B.M.				347.80	
5+00	5.72	353.52			
5+50					
W.L. Highland.					
6+00					
E.L. Highland.					
6+65					
7+00					
7+50					
℄ Alley.					
8+00					
B.M.			9.14	344.38	
			Marked	344.33	

		South	North	Hyatt. & Graf.	
Spike in pole N.W. Highland & Howard.		8.9	7.6		
−0.9	345.55	344.6	345.9	345.97	−0.1
		8.0	6.6		
−0.8	346.29	345.5	346.9	346.73	+0.2
		6.7	5.8		
−0.2	347.0	346.8	347.7	347.5	+0.2
		6.3	5.2		
+0.2	347.0	347.2	348.3	347.5	+0.8
		5.9	4.7		
+0.5	347.13	347.6	348.8	347.63	+1.2
		5.8	4.5		
+0.4	347.31	347.7	349.0	347.81	+1.2
		5.4	4.2		
+0.6	347.5	348.1	349.3	348.0	+1.3
Spike in pole at alley bet. Fair & Colonial N.L. Howard.					

Checking Grades on Colonial Clark - Centre

Jan 2 1915
Leeker
Hyatt

		335.46		333.98	
	1.48				
			2.44	333.02	
	[illegible]		12.92	322.54	
	0.64	323.18			
West Side B.V.C.			10.58	312.60	
West Side M.V.C.			12.68	310.50	
	3.49	313.99			
West E.V.C.			4.79	309.2	
N.W. Cor.			8.99	305.0	
				310.50	
	2.75	313.25			
S.E.			9.25	304.00	
M.V.C.				305.5	0.5 M ord.
2+50			7.58	305.67	

Cut + Fill stakes Clark E + W of Highland

Sta	+	H.I.	-	Elev	Spike in pole S.W. Cor Clark + Highland	+ or -	North Grade	N. Prop. line	South S. Prop. line	South Grade	+ or - A.H. Graf G.F. Hyatt 1/11/15
B.M				335.67							
	1.13	336.80									
5						-2.6	335.39	4.0 332.8	14.5 322.3	334.65	-12.4
+50						-3.7	335.94	4.6 332.2	5.8 331.0	335.42	-4.4
T.P. on South W.L. Highland 6			1.69	335.11		+0.2	336.50	0.0 336.7	1.7 335.1	336.20	-1.1
	6.88	341.99									
E.L. Highland +65						+0.7	337.0	4.3 337.7	5.4 336.6	336.70	-0.1
7						+0.6	337.45	4.0 338.0	5.1 336.9	337.13	-0.2
+50						+0.6	338.10	3.3 338.7	4.6 337.4	337.74	-0.3
8						+0.7	338.75	2.6 339.4	4.2 337.8	338.35	-0.5
B.M.			6.33	335.66							

Given to Recorded in office Jan 25-1915 " " April 14-1915

Spike in pole S.W. Clark + Highland

Sta	Curb Stakes - Colonial +	HI	—	Elev.						Hyatt Graf Ford Jan 6-1915	
B.M.				333.98		Spike in Pole SW Colonial & Clark					
SE Colonial & SW Clark	4.65	338.63	5.63	333.00							
T.P.	3.92	337.90	12.72	325.18							
T.P.	1.92	327.10	12.54	314.56							
T.P.	2.34	316.90	6.48	310.42							
East 31+20	3.83	314.25	3.75	310.50							
NE Center Colonial			9.25	305.00							
SE "			10.25	304.00							
	4.48	338.46		333.98		Spike in pole S.W. Colonial & Clark					A.H. Graf C.F. Hyatt 7/11/15
S.E. Colonial Clark			5.46	333.00							
	Curb Stakes Colonial										Ford Hyatt Graf Jan 12-1915
NE Colonial Center Curb Stake				305.00							
SE " Curb Stake	5.91	310.91	6.93	303.98	Should be 304.00						
300' S of SL Center			4.17	306.74							
			6.41	304.50							
NE Colonial Chatham			8.91	302.00							
	4.07	310.81	5.06	305.75							

Cut + Fills stakes Centre E + W of Highland

B.M.				323.65	H.ob S.W. Cabrillo + Centre
	6.59	330.24			
8					
7+50					
7					
E.L. Highland 6+65					
W.L. Highland 6+00					
5+50					
5					

Curb Stakes Center E + W of Highland

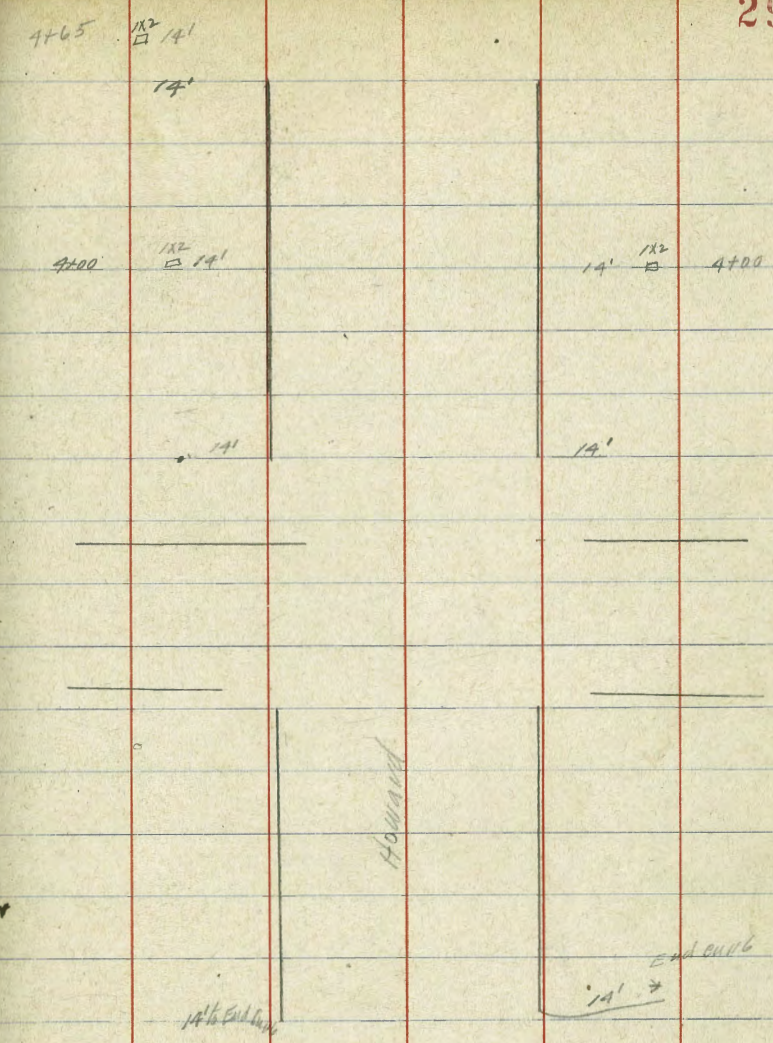
SW Colonial Center				304.50	
SE "	✓9.27	313.77	✓9.77	304.00	
℄ Allen 135' E of EL Colonial			✓1.02	312.75	
132.5' W of WL Colonial			✓2.52	311.25	
135' W of WL Colonial	4.53	315.78	3.78	312.00	
	4.53				

Given to Amos Sumstad Jan 25 1915

	North		South		Graf Hyatt 1915
+or-	Grade	N. Prop. line	S. Prop. line	Grade	+or-
		2.2	4.0		
+3.3	324.75	328.0	326.2	323.75	+2.5
		1.9	4.2		
+4.2	324.10	328.3	326.0	323.10	+2.9
		2.7	4.8		
+4.1	323.45	327.5	325.4	322.45	+3.0
		3.2	5.7		
+4.0	323.0	327.0	324.5	322.0	+2.5
		4.6	7.4		
+3.1	322.5	325.6	322.8	321.5	+1.3
		6.8	10.1		
+4.1	319.26	323.4	320.1	318.26	+1.8
		10.0	13.6		
+4.2	316.02	320.2	316.6	315.02	+1.6

Ford Hyatt Graf Jan 4 1915

old Slakes on
Howard
Jan 18-1915



Old Stakes on Clark
Jan 18-1915

Clark

12' to End curb
14' 2x2 Alloy Hub

2+00 1x2 14'

1+35 1x2 14'

14' 1x2 2+00

Hyatt Graf 2/18/15

Cross Sections.

Castle St. Fairmount to ℄ Alley East.

	+	H.I.	−	Ele.
B.M.				349.75
Top Curb 0-10 on Fairmount	4.95	354.70		
E.L. Fairmount 0+00				
0+65				
℄ Alley 1+35				
T.P. 1+45			4.27	350.43

X Section Clark Fairmount

Sta.	+	HI	−	Elev.
B.M.				329.97
Top Curbs 0-10	7.48	337.45		
E.L. Fairmount 0+00				
+50				
1				
Bet Fair & Colon ℄ Alley				
E.L. Alley " Curbs				
B.M.	East of Fairmount	ON Klauber	- do	355.35
E.L. Alley bet Fair & Colonial Curbs	4.86	360.21		
1+35 ℄ Alley				
1+00				

Spike in pole N.E. Cor. Castle & Fairmount.

40' N.P.L.		20' 1/4	℄	20' 1/4		40' S.P.L.
5.27 349.43						6.26 348.44
5.0 349.7	2.5 Back of walk 5.0 349.7	5.5 349.2	5.7 349.0	6.1 348.6		6.1 348.6
4.0 350.7	4.15 Back walk 350.55	5.0 349.7	4.9 349.8	5.2 349.5		5.4 349.3
3.3 351.4		3.9 350.8	3.9 350.8	3.8 350.9		4.5 350.2

Top Curb E.L. Alley bet. Fairmount & Colonial S.L. Castle.

East to ℄ Alley Bet Fairmount & Colonial

Fc 682-1915 Ford Hyatt Graf

North- South

Spike Pole SW Clark & Fairmount

4.84 332.51		20' 1/4	℄	20' 1/4			6.95 330.50
4.5 333.0	2.8 4.8 332.7	5.1 332.4	5.5 332.0	6.4 331.1		2.8 6.5 331.0	6.9 330.6
3.2 334.3	3.1 3.5 334.0	5.1 332.4	10 4.4 333.1 4.7 332.8	14 4.9 332.6 5.9 331.6		2.7 4.6 332.9	4.8 332.7
3.2 334.3	2.7 3.8 333.7 2.6 4.9 332.6	4.7 332.8	5.0 332.5	5.9 331.6		2.9 5.3 332.2	5.2 332.3
3.5 334.0		4.8 332.7	4.9 332.6	6.0 331.5		2.7 6.2 331.3	5.5 332.0
	2.6 4.29 333.16					2.6 5.49 331.96	

Spike Pole SL Klauber Bet Fairmount & Colonial

						2.6 5.60 354.61	3
4.6 355.6	2.9 5.9 354.3	5.4 354.8	5.0 355.2	5.6 354.6		2.7 6.1 354.1	5.3 354.9
5.1 355.1		5.5 354.7	4.7 355.5	10 4.6 355.6	5.6 354.6	2.7 5.1 355.1	5.3 354.9

Sta	+	Section Klauber Crusta HI	−	Elev	North PL	20' 1/4	℄	20' 1/4 South	PL
0+50		360.21			46 355.6	27' 50 355.2 / 26 53 354.9	53 354.9	47 355.5 / 54 354.8	4.5 355.7
EL Fairmount 0+00					46 355.6	32 47 355.5 / 29 52 355.0	51 355.1	50 355.2 / 15 52 355.0 / 57 354.5 / 26 55 354.7	52 355.0
0-10 - Fairmount Curbs					477 355.44				526 354.95
	Curb Stakes Highland Klauber to Castle								Ford Hyatt Graf Mar 4 1915
BM				350.31		Spike Pole SL Klauber Alley bet Highland & Cabrillo			
SE Klauber Highland	5.33	355.64	5.14	350.50					
SW "			4.84	350.80					
B.M.				353.95		Spike Pole NE Highland & Castle			
NE Highland Castle	4.86	358.81	5.61	353.20					
NW "			5.31	353.50					
	Curb Stakes Highland			350.31					Ford Mar Hyatt 10- Graf 1915
BM				350.31		Nail Pole SL Klauber Alley East Highland			
NE Highland Klauber	5.57	355.88	5.68	350.20					
NW "			5.18	350.70					
	Curb stakes Highland								Mar 11-1915 Ford Graf Hyatt
BM				356.57		Spike Pole NE Colonial & University			
	1.06	357.63	5.03	352.60					
			5.56	352.07					
TP			4.52	353.11		Nail Pole SW Highland & Univ			

Curb Stakes Highland –

Sta	+	HI	–	Elev		
				353.11		
Curb Highland SW Univ	4.33	357.44	4.84	352.60	Should be 352.50	
East Line Highland 120' S of SL Univ			2.88	354.56		
			2.38			
				354.56		Mar-13-1915 Ford-Hyatt-Graf. Curb stake 120' S of S.L. University on E.L. Highland ON-10½ AM.
W.L. Highland 120' S of S.L. Univ	4.94	359.50	4.44	355.06		

Curb Stakes Klauber E & W of Highland

April 1-2-1915 Ford Hyatt Graf

B.M. S.L. Klauber 123' E of Highland	5.04	355.35	6.40	350.31 348.95		Nail Pole SL Klauber Alley East Highland
NL Klauber " "				348.92		
				350.31		
	4.96	355.27	6.35	348.92		

Curb Stakes Howard E & W of Highland

B.M. NE Howard & NW Highland	2.87	350.67	3.17	347.80 347.50	Book 72 – Page 34	RR Spike Pole N.W. Highland & Howard
B.M. N.L. Howard 123' E of EL Highld	4.85	352.65	4.70	347.95		
SE Highland Howard			5.65	347.00		

Curb stakes Howard E+W Highland (Cont'd)

Sta.	+	H.I.	−	Elev.		
B.M. S.L. Howard				347.80		R.R. spike pole N.W. Cor. Howard + Highland
128' E of E.L. Highld	4.25	352.05	4.60	347.45		
						Ford Hyatt Graf April 7, 1915

Curb Stakes Highland Howard to Clark

B.M.				347.80		
SE Highland Howard	4.69	352.49	5.49	347.00		
SW " "			5.49	347.00		
B.M				335.67	Book Page 72-38	Nail Pole SW Highland Clark
NE Highland Clark	7.00	342.67	5.67	337.00		
				335.67		
NW Highland Clark	6.10	341.77	5.27	336.50		
				335.67		
	6.33	342.00	5.80	336.2		
B.M.			8.02	333.98		SW Clark + Colonial

	± Stakes Fairmount			± West PL			± West PL			± West PL	
S.L.						+50	+0.5		5	+0.6	
Curb In						3	+0.4		+30	+0.5	
						+50	+0.6		NL Howard 6	00	
1+50				+0.5		4	00			Howard	
2				+0.3		+50	+0.5		0+00 SL Howard	00	
+50				+0.4		5	00		+50	-1.6	
3				+0.3		+50	+03		1	-2.6	
+50				+0.5		NL Castle 6	00		+50	-4.8	
4				+0.5				Castle	2	-2.5	
+50				00		0+00 SL Castle	00		+50	-2.8	
5				+0.4		+50	+0.7		3	-8.1	
+50				+0.3		1	+0.9		+50	-1.7	
NL Klauber 6+00				0.0		+50	+1.0		4	Not in	
						2	+0.8		+25 Break	00	
0+00 SL. Klauber				00		+50	+0.4		+50	not in	
+50				+0.7		3	00		5	00	
1				+0.4		+50	00		+60	+0.3	
+50				+0.7		4	00		NL Clark 6	00	
2				+0.5		+50	+0.3			Clark	

Corners set to Grade from Curbs on X Streets.
± Stakes "Raked in" West PL Only - East Curb Grades
Ford - Hyatt Graf
April 9 - 1915

APRIL 9

Ford Hyatt Graf April 19-1915

Sta	± Stakes Fairmount +	HI	—	Elev		
BM				329.97	72-38	
Curb top Fairmount NW Clark	9.26	339.23	7.25	(331.98)	Should be 331.90	336.76 1.60
175' N of NL Clark WPL Fairmount			4.13	335.10		
	Curb Stakes Highland Castle to Howard					
B.M.				347.80		RR Spike Pole NW Highland & Howard
NW Highland & Howard	4.00	351.80	4.30	347.50		
BM				353.95		Nail Pole NE Castle & Highland
NE Highland Castle	4.62	358.57	5.37	353.20		
SW " "			"	"		
SE " "			5.67	352.90		
BM				347.80		RR Spike Pole NW Highland Howard
NE Highland Howard	4.80	352.60	5.10	347.50		
Curb Stake	Curb Stakes Castle E & W of Highland					
NE Highland Castle				353.20		April 15-15 Ford Hyatt Graf
NW " "	4.75	357.95	4.45	353.50		
SW " "			4.75	353.20		
123' E of EL Highland NL Castle			9.40	348.55		
On Curb Stake NE Highland Castle				353.20		
123' E of EL Hgld SL Castle	0.84	354.04	5.65	348.39		

Curb stakes Clark E of Highland

Sta.	+	H.I.	−	Elev
B.M.				335.67
	10.49	346.16		
N.E. Highland Clark			9.16	337.0
B.M.				335.67
S.E. Highland Clark	5.97	341 64	4.94	336.70
123 E. Highland N.C. Clark			3.04	338.60
B.M.				335.67
123 E. Highland S.C. Clark	7.30	342.97	4.77	338.20

Spike pole S.W. Highland & Clark

Graf Hyatt Apr. 17, '13

Cross-Sections Highland So of Centre

Leaker H.A.G. Apr 80-5

		H.I.		El.
				335.67
	0.87	336.54	10.33	326.21
	2.22	328.43		
So. line Centre				
+50				
0+75				

West Prop line ℄ East Prop line

B.M. Pole S.W. Cor Clark & Highland –

	5.5	5.2	4.1	4.3		3.7	
321.5	322.9 +1.4		324.3		+2.7	324.7	322.0
	8.2	7.8	5.8	5.9		5.6	
321.0	320.2 +0.0	320.6	322.6	322.5		322.8	
			00 Section		+0.3	321.8	321.5

Sta.	+	H.I.	−	Elev.
B.M.				344.33
S.L. Howard				
0+00	0.28	344.61		
1+00				
+50				
2				
T.P. on Rock				
+50			7.95	336.66
3	3.10	339.76		
+50				
4				
5				
N.L. Clark				
6				
				S.B. 329.97
			9.84	329.92

West — East

P.L.	¼	℄	¼	Gutter	Top Curb	Grade Hyatt Apr 29/16
Spike N of N.L. Howard bet Fairmount & Castle.						
4.7	4.7	4.3	4.5	5.3	4.38	
339.9	339.9	340.3	340.1	339.3	340.23	
7.9	7.1	5.9	6.2	6.3	6.40	
336.7	337.5	338.7	338.4	338.3	339.21	
10.8 20' 7.3	7.5	6.6	7.1	6.8	5.83	
333.8 335.3	337.1	338.0	337.5	337.8	338.78	
10.1	8.2	7.2	7.4	7.3	6.45	
334.5	336.4	337.4	337.2	337.1	338.16	
10.1	8.5	7.5	7.7	7.8	6.92	
334.5	336.1	337.1	336.9	336.8	337.69	
45' 16.5	11.1	9.7	9.9	9.1	8.61	
323.3	328.7	336.1	336.9	336.7	336.5	337.18
5.5	3.9	3.3	3.9	4.1	3.21	
334.3	335.9	336.5	335.9	335.7	336.55	
4.2	4.1	3.8	4.1	4.4	3.68	
335.6	335.7	336.0	335.7	335.4	336.08	
5.7	5.7	5.1	5.5	5.9	5.22	
334.1	334.1	334.7	334.3	333.9	334.54	
8.2	7.9	7.2	7.6	8.2	7.21	
331.6	331.9	332.6	332.2	331.6	332.55	
Spike in Pole S.W. Fairmount & Clark						

Curb Stakes Fairmount

Sta	+	HI	−	Elev		
BM				355.35		
S.W. Fairmount Klauber	4.50	359.85	✓5.20 set 5.25	SB. 354.60		RR Spike Pole SL Klauber Bet Fairmount & Colonial
BM				349.75		
NE Fairmount Castle	4.18	353.93	✓4.52	349.41	← Top Curb Now SB 349.40	Nail Pole NE Fairmount & Castle
NW " "			4.90	349.03	← Top Curb 4 SB 349.10	
NW " "			✓4.83			
Curb Stake SW Fairmount Klauber				354.65		
	5.45	360.10	4.90	355.20		
BM				349.75		
Curb Stake NE Fairmount Castle	4.46	354.21	4.78	349.43	SB 349.4	Nail Pole NE Fairmount & Castle
SE Castle Fairmount			5.75	348.46	SB 348.4	
SW Fairmount Castle			6.01	348.20	SB 348.1	
BM				344.33		
N.E. Howard & Fairmount	1.68	346.01	4.39	341.62	SB 341.7	Nail Pole N of NL Howard Bet Fairmount & Colonial
NW " "			5.20	341.81	SB 340.7	

May 1915
Ford
Hyatt
Graf

May 11-1915
Ford Hyatt Graf

Sta	+	H.I.	−	Elev	
B.M.				323.65	
NE Highland Center	9.50	333.15	10.15	323.00	
NW "			10.65	322.50	
B.M.				335.67	
SE Highland Curb	6.74	342.41	5.71	336.70	
SW "			6.21	336.20	
Curb Stake NE. Highland Center				323.00	
	7.10	330.10	5.35	324.75	
	Curb Stakes Center E & W of Center				
Curb Stake NE. Highland Center				323.00	
" Center Highland	4.89	327.89	4.89	323.00	
NW " N.L. Center			5.39	322.50	
123' E of E.L. Highland			3.30	324.59	
Curb	Stakes	Center	E & W of	Highland	
Hub B.M.				323.65	
SE Highland Center	4.48	328.13	6.13	322.00	
SW "			6.63	321.50	
123' E of E.L.	6.69	329.69	6.10	323.59	

Hub S.W. Cabrillo & Center

Nail Pole SW Highland & Clark

Ford Hyatt Graf May 15-1915

to May 17-1915

SW Cabrillo & Center

Ford
Graf
Hratt
5/19/16

Curb stakes Fairmount + Howard

Sta	+	H.I.	−	Elev		
B.M.				344.33		Spike in pole. Not N.C. Howard bet Fairmount + Colonial
	2.09	346.42 ~~344~~				
S.E. Fairmount Howard			Set 6.02 6.15	340.27	Top of old curb S.B. 340.4	
B.M.				329.97		Spike pole S.W. Clark + Fairmount.
	6.66	336.63				
N.E. Fairmount Clark			4.02	332.61	Top of old curb S.B. 332.7	
S.E. Fairmount Clark			Set 6.03 6.10	330.53	Top old curb 330.6	

100' E & W of Chicago

X sec of Milton 80' wide

indexed C.S.R. 22 cbs 9' 1/4 S

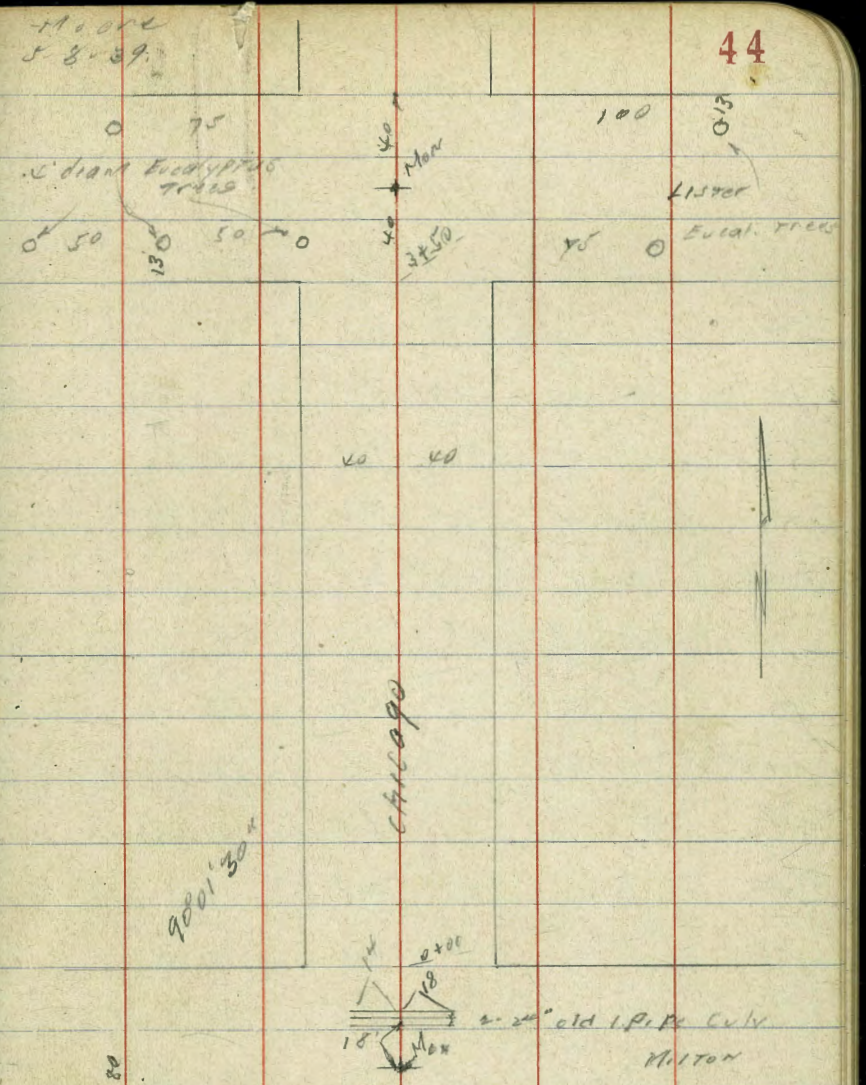
Mon. Svv. Cor.	3.59	14.92		11.33	Morena Bvd Jellett
T.P.	8.24	20.48	2.70	12.22	
T.P.	5.85	26.03	0.30	20.18	

100' W of Chicago

N			8.0	18.0	
+18			7.2	18.8	
+20			9.8	16.2	
cb			9.8	16.2	
+2			10.1	15.9	
+4			8.6	17.4	
1/4			8.4	17.6	
c			8.2	17.8	
1/4			8.3	17.7	
cb			7.8	18.2	
S			7.2	18.8	

50' W of Chicago

S			6.0	20.0	
cb			6.5	19.5	



26.03

1/4		6.7	19.3
+5		7.1	18.9
C		6.6	19.4
1/4		7.0	19.0
+3		7.0	19.0
+5		9.5	16.5
+8		9.5	16.5
ob		7.0	19.0
N		6.7	19.3
W 4 chicago			
N		5.7	20.3
+19		5.1	20.9
ob		6.4	19.6
+4		6.4	19.6
+6		5.6	20.4
1/4		5.6	20.4
C		5.4	20.6
+6		6.0	20.0
1/4		5.1	20.9
ob		5.2	20.8
S		3.8	22.2

26.03

W 06 chicago

S	3.8	22.2	
ob	4.5	21.5	
1/4	4.7	21.3	
+4	5.5	20.5	
C	4.8	21.2	
1/4	4.8	21.2	
+3	4.8	21.2	
6	6.1	19.9	
ob	6.5	19.5	
+1	4.7	21.3	
N	5.2	20.8	
E chicago			
N	5.0	21.0	
ob	4.0	22.0	
1/4	4.2	21.8	
C	4.2	21.8	
C. on Mon.	5.22	20.81	BM
+4	5.2	20.8	
1/4	4.5	21.5	

		26.03			
cb			4.0	22.0	
S			3.5	22.5	
E cb Chicago					
S			3.4	22.6	
cb			3.2	22.8	
1/4			4.2	21.8	
C			3.7	22.3	
1/4			3.8	22.2	
+3			3.8	22.2	
+5			5.4	20.6	
cb			5.7	20.3	
+2			3.5	22.5	
N			4.0	22.0	
E.C Chicago					
N			3.4	22.6	
+20			3.2	22.8	
cb			5.2	20.8	
+3			5.2	20.8	
+5			3.2	22.8	
1/4			3.2	22.8	

		26.03			
C			3.7	22.8	
+7			3.7	22.3	
1/4			3.2	22.8	
cb			3.0	23.0	
S			2.4	23.6	
T.P.	6.39	30.21	2.21	23.8	
50' E of Chicago					
S			4.5	25.7	
cb			5.2	25.0	
1/4			5.4	24.6	
+3			6.1	24.1	
C			5.7	24.5	
1/4			5.9	24.3	
+3			6.0	24.2	
+5			7.3	22.9	
cb			7.7	22.5	
+7			5.1	25.1	
N			5.4	24.8	

30.21

100' E of Chicago

N			4.1	26.1
+20			3.8	26.4
cb			6.3	23.9
+5			6.2	24.0
+6			4.2	26.0
1/4			4.2	26.0
C			4.1	26.1
+7			4.5	25.7
1/4			4.0	26.2
cb			4.8	25.4
+5			3.6	26.6
S			2.6	27.6

30.21 Indexed O.S.K. 22 cbs 17

X Sec of Chicago 80' wide 9 1/4

Milton to Lister

0+50				
E			7.3	22.9
cb			8.5	21.7
1/4			8.9	21.3
C			9.2	21.0
1/4			9.6	20.6
cb			9.7	20.5
W			10.8	19.4
1+00				
W			11.0	19.2
cb			10.3	19.9
1/4			10.0	20.2
C			9.7	20.5
1/4			9.2	21.0
cb			8.8	21.4
E			8.0	22.2
1+50				
E			8.5	21.7
cb			9.2	21.0

3021

1/4	9.9	20.3	
c	10.3	19.9	
1/4	10.4	19.6	
+7	10.0	20.2	
cb	11.0	19.2	
W	11.4	18.8	
1+75			
W	11.9	18.3	
cb	11.0	19.2	
+7	10.0	20.2	
1/4	10.4	19.6	
c	10.1	20.1	
1/4	10.0	20.2	
cb	9.8	20.4	
E	8.9	21.3	
2+00			
E	9.1	21.1	
cb	9.4	20.8	
1/4	9.5	20.7	

3021

c	9.7	20.5	
1/4	10.1	20.1	
cb	10.8	19.4	
W	11.7	18.5	
2+50			
W	11.9	18.3	
cb	10.7	19.5	
1/4	10.1	20.1	
c	9.9	20.3	
1/4	10.0	20.2	
cb	9.8	20.4	
E	9.3	20.9	
3+00			
E	8.6	21.6	
cb	9.7	20.5	
1/4	10.2	20.0	
c	10.3	19.9	
1/4	10.4	19.6	
cb	11.2	19.0	
W	11.9	18.3	

		30.21			
3+50 =		S.L. Lister			
W			11.9	18.3	
cb			10.5	19.7	
¼ S			11.2	19.0	
¼			10.3	19.9	
C			9.7	19.5	
¼			9.2	20.8	
cb			8.7	21.5	
E			7.7	22.5	
T.P.	8.23	28.57	9.87	20.34	
S cb					
E			6.3	22.3	
cb			7.3	21.3	
¼			7.8	20.8	
C			8.2	20.2	
¼			9.1	19.5	
cb			9.7	19.4	
W			10.3	18.3	

		28.57			
S ¼					
W			10.7	17.9	
cb			9.5	19.1	
¼			9.0	19.6	
C			8.7	19.9	
¼			8.3	20.3	
cb			7.8	20.8	
E			6.7	21.9	
E Lister					
E			6.3	22.3	
cb			7.5	21.1	
¼			8.1	20.5	E of Chicago Lister
C on Mon			8.70	19.87	
¼			9.0	19.6	
cb			9.2	19.2	
W			10.2	18.0	
N ¼					
W			10.8	17.8	
cb			9.7	18.1	
¼			9.1	19.5	

		28.57						28.57			
C			8.7	19.9			0450				
1/4			8.4	20.2		E			7.3	21.3	
CB			8.1	20.5		CB			8.1	20.5	
E			6.7	21.9		1/4			8.8	19.8	
	N CB					C			9.0	19.6	
E			6.6	22.0		1/4			9.5	19.1	
CB			7.7	20.9		CB			10.3	18.3	
1/4			8.4	20.2		T4			9.4	19.0	
C			8.7	19.9		W			11.0	17.6	
1/4			9.0	19.6			1400	N of NE Lister			
CB			9.7	18.9		W			11.4	17.2	
W			11.4	17.4		CB			9.9	18.7	
	NW Lister = 0400					T3			10.0	18.0	
W			10.8	17.8		1/4			9.8	18.8	
CB			9.7	18.9		C			9.4	19.3	
1/4			9.0	19.6		1/4			9.0	19.0	
C			8.8	19.8		CB			8.0	20.0	
1/4			8.5	20.1		E			7.7	20.9	
CB			7.7	20.9							
E			6.6	22.0							

XSec on Lister 100' E & W of chicago

80' wide 22' cbs

28.57

50 E of Chicago

S			3.9	24.7
cb			3.9	24.7
1/4			4.2	24.4
c			3.9	24.7
1/4			4.1	24.5
cb			4.3	24.3
N			4.2	24.4

100' E Chicago

N			1.5	27.1
cb			1.9	26.7
1/4			1.9	26.7
c			1.8	26.8
1/4			2.2	26.4
cb			2.3	26.3
S			2.0	26.6

Indexed
C.S.K

28.57

50' W of Chicago

S			12.4	16.2
cb			12.7	15.9
1/4			13.0	15.6
c			13.0	15.6
1/4			13.0	15.6
cb			13.0	15.6
N			12.8	16.8
T.P.	1.16	17.36	12.37	16.20

100' W of Chicago

N			4.5	12.9
cb			4.4	13.0
1/4			4.4	13.0
c			4.3	13.1
1/4			4.3	13.1
cb			4.5	12.9
+5			4.7	12.7
+8			3.1	14.3
S			3.4	14.0

17.36
5.15
12.21
2.52
14.73
3.40
11.33
11.33
orig. BM

INDEXED
EFB

	Xsec of Byron St			70' wide 18' cbs 8.5 1/4	
	Willow to Plum				
SWBP	1217	104.55 ~~106.67~~		92.38	Willow Byron
	W 1/4 willow				
S	Pav		10.67	93.88	
cb	"		9.92	94.63	
1/4	"		9.78	94.77	
c	"		9.66	94.89	
1/4	"		9.72	94.83	
cb	"		9.78	94.77	
N	"		10.24	94.31	
	W cb Willow				
-25	cb PC		10.48	94.07	
"	gut		11.23	93.32	
N	pav		9.96	94.59	
cb	"		9.41	95.14	
1/4	"		9.32	95.23	
c	"		9.28	95.27	
1/4	"		9.37	95.18	

Bench corrected reduced & plotted on profile 2353
3/14/40 CBH

		~~106.67~~ 104.55			Moore 3-12-40 Osburn Hale
cb	"		9.55	95.00	
S	"		10.42	94.13	
+25	cb PC		11.98	93.57	
"	gut		12.65	91.90	
	W cb +9				
S +1.3	cb		9.21	95.34	
"	gut		9.95	94.60	
cb	pav		9.14	95.31	
1/4	"		8.92	95.63	
c	"		8.82	95.73	
1/4	"		8.78	95.77	
cb	"		8.84	95.71	
+16.7	gut		9.34	95.21	
"	cb		8.62	95.93	
	W L Willow -0+00				
N			8.0	96.6	
+10	cb end		7.67	96.88	
"	gut		8.42	96.13	
cb	pav		8.34	96.21	
1/4	"		8.25	96.30	

		~~106.67~~ 104.55			
C	pav		8.27	96.28	
1/4	"		8.36	96.19	
cb	"		8.54	96.01	
+8	gut		8.71	95.84	
"	cb end		7.93	96.62	
S			8.7	95.9	
	0+04				
−10			+0.5	105.1	
S			0.8	103.8	
+8			4.9	97.7	
cb			8.0	96.6	
	0+25 = cb P.C.				
S			+3.3	107.9	
+6			+3.6	108.2	
cb			4.1	100.5	
+4			4.9	99.7	
1/4			4.7	99.9	
c			4.3	100.3	
1/4			4.3	100.3	
cb			4.5	100.1	

		~~106.67~~ 104.55			
N			4.0	100.6	
TP	12.68	117.19 ~~119.31~~	0.04	104.51 ~~106.63~~	
	0+50				
N			12.6	104.6	
cb			13.0	104.2	
1/4			12.6	104.6	
c			12.4	104.8	
1/4			12.3	104.9	
+4			12.3	104.9	
cb			10.8	106.4	
+6			6.8	110.4	
S			6.7	110.5	
	0+75				
S			5.3	111.9	
+13			4.1	113.1	
cb			6.2	111.0	
+3			7.6	109.6	
1/4			7.7	109.5	

		~~+9.37~~ 117.19						~~+9.37~~ 117.19			
C			7.7	109.5					7.3	2.5	114.7
1/4			8.2	109.0					1/4	2.4	114.8
cb			8.7	108.5					C	2.2	115.0
N			8.6	108.6					1/4	2.4	114.6
	0+90	S ~~+~~ 10 14" PP							cb	2.4	114.8
	1+00								N	1.4	115.8
N			4.5	112.7					+0.2	Ft Cent. dr.	0.69	116.50
cb			5.0	112.2						1+36		
1/4			4.5	112.7					-0.2	W.L. Cent dr.	0.55	116.64
C			3.9	113.2					N		0.5	116.7
1/4			4.2	113.0					cb		1.2	116.0
+5			4.1	113.1								
cb			3.2	114.0						125.46		116.43
S			4.0	113.2	TP		9.08	~~+27.58~~	0.76	~~+8.55~~
	1+20											
							1+40					
-5			4.4	112.6	N	Ft dist dr.			5.4	119.9
5			4.0	113.2	cb				8.6	116.9
+5			3.6	113.6	1/4				9.3	116.2
+12			1.3	115.8	C				9.4	116.1
cb			1.1	116.1	1/4				9.5	116.0

		~~+27.58~~ 125.46				~~+27.58~~ 125.46		
+5			8.8	116.7				
c6			8.8	116.7		1+85		
+10			11.6	113.9	S -2.5 E 2' cem wk.		12.50	112.94
S			12.7	112.8		1+90		
+10			13.1	112.4	-10		12.7	112.8
	1+50				S		12.1	113.4
C			8.8	116.7	+3		10.7	114.8
N ¼			8.8	116.7	+10		10.1	115.4
c6			8.2	117.3	c6		7.5	1180
N WL dirt dr.			5.2	120.1	¼		7.2	118.3
	1+52				C		6.8	118.7
N			4.2	121.1	¼		6.0	119.5
+10			5.6	119.9	c6		5.1	120.4
c6			7.9	117.6	N		3.1	122.4
¼			8.6	116.9	N+0.2 E 6 Cem. dr.		~97	122.49
C			8.6	116.9	1+98			
	1+63				N-0.2 W.L. " "		2.88	122.58
S -2.5 E 2'		cem. walk	12.83	112.63	N		3.0	122.5
	1+70				c6		4.7	121.8
N E 3' Cem walk			3.15	122.31				

		~~+27.58~~ 125.46		
	7+25			
N			0.5	125.0
cb			2.2	123.3
1/4			3.6	121.9
C			4.8	120.7
1/4			5.5	120.0
cb			5.9	119.6
+12			8.0	117.5
S			8.6	116.9
+10			9.6	115.9
		127.58		125.12
T.P.	12.46	+39.70	0.34	~~+27.24~~
	7+50			
-10			19.6	118.0
S			18.6	119.0
cb			15.7	121.9
1/4			15.3	122.3
C			14.8	122.8

		~~+39.70~~ 137.58		
1/4			13.5	124.1
cb			12.4	125.2
N			11.1	126.5
	7+75 = cb PC			
N			8.3	129.3
cb			9.5	128.1
1/4			10.7	126.9
C			12.2	125.4
1/4			13.0	124.6
cb			13.5	124.1
S			16.6	121.0
+10			17.5	120.1
	8+00 EL PUMP = 70' wide			
-10			16.2	121.4
S			15.1	122.5
cb			12.6	125.0
1/4			11.6	126.0
C			11.1	126.5
+6			10.2	127.2
1/4			9.2	128.4

		~~139.70~~ 137.58					~~139.70~~ 137.58				
cb			7.3	130.3		N		0.9	136.7		
N			5.8	132.3							
	E Plant						125.42		125.12		
						T.P.	0.80 ~~127.54~~	12.44	~~127.24~~		
N			2.4	135.2			113.10		112.45		
						T.P.	0.65 ~~114.53~~	12.47	~~114.57~~		
cb			5.4	132.2			101.53		100.64		
						T.P.	0.89 ~~102.65~~	12.46	~~102.76~~		
1/4			7.2	130.4					92.38	92.38	
						orig. S.M.		9.15	~~94.50~~	~~94.50~~	
c	S.M.H. Plant		8.6	128.94							
1/4			8.4	129.2							
cb			9.2	128.4							
S			12.6	125.0							
+10			14.0	123.6							
	W.H. Plant										
-10			12.5	125.1							
S			11.6	126.0							
cb			8.9	128.7							
1/4			7.7	129.9							
c			6.0	131.6							
1/4			5.0	132.6							
cb			3.5	134.1							

Moore
Osborn
Hale
3-29-40.

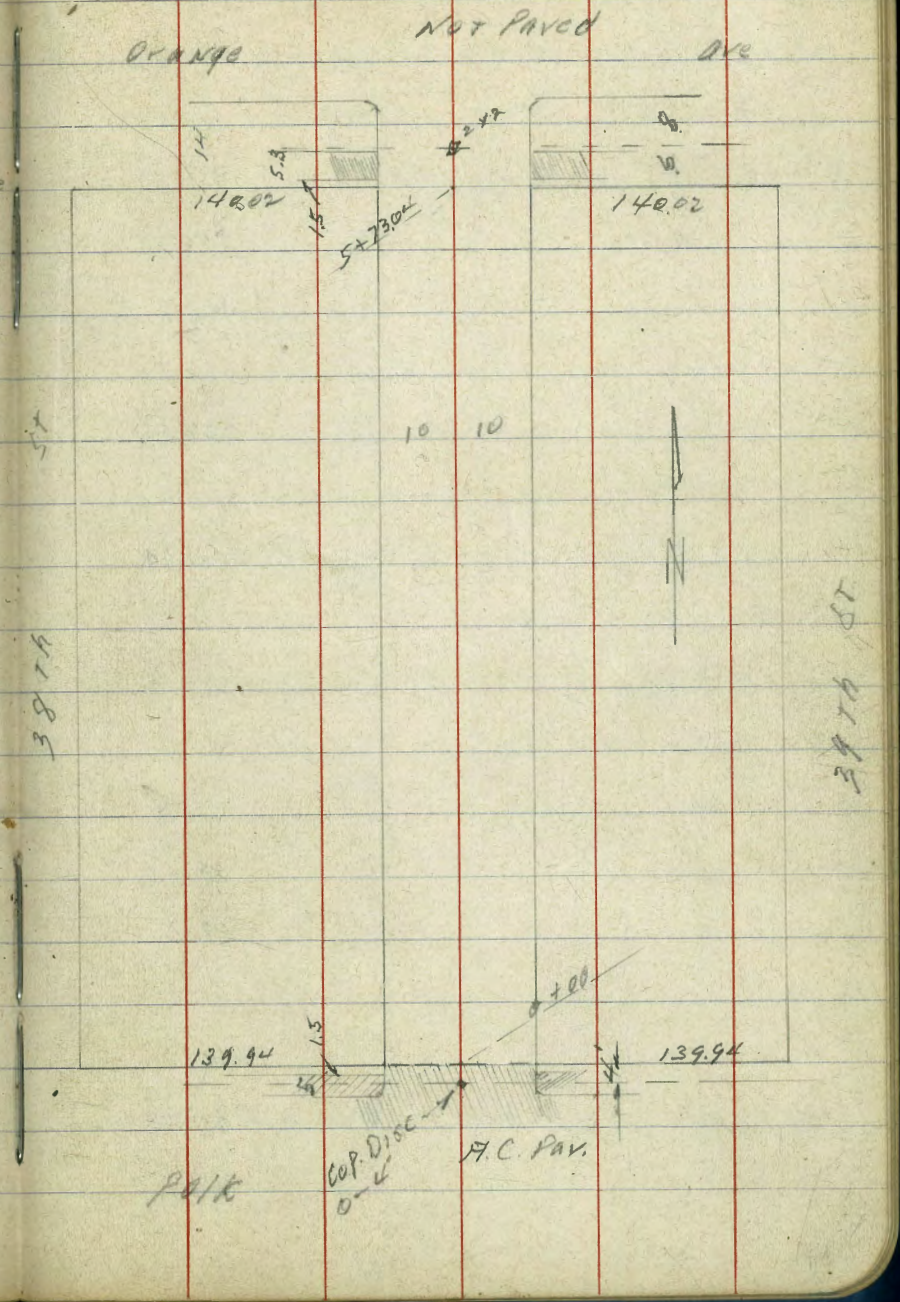
X sec of alley Blk 12 20' wide
Sub. Lot 20 to 50 Blk N Teralta

NWBP	3.25	371.36		368.11	38th Orange
" "			5.59	365.77	39th Orange 365.77
T.P.	0.86	364.66	7.56	363.80	
	0+65 N cb Polk				
W	Pav		6.27	358.39	
C	"		6.23	358.43	
E	"		6.20	358.46	
	0+0 N cb Polk				
E	cb		5.41	359.25	
E	Pav		5.76	358.90	
C	"		5.99	358.67	
W	"		5.92	358.74	
W	cb		5.84	358.82	
	0+40				
W			5.1	359.6	
C			5.4	359.3	
E			5.3	359.4	

See cuts page 62

Red & plot on new profile 4-2-40 CBH

INDEXED
EFB



	364.66			
0+56				
W -2.5 & gar wood fl.		5.2	359.5	
0+68				
E -6.8 Sin. gar con.		4.83	359.83	
E -2.4 apron "		4.81	359.85	
E		5.0	359.7	
C		5.0	359.7	
W		5.2	359.5	
0+78				
E-0.9 S L apron		4.5±	360.14	
E -5 " 4 Car gar.		4.44	360.22	
0+98				
W +2.8 P.P.				
1+00				
-10		5.3	359.4	
W		5.2	359.5	
C		4.7	360.0	
E		4.4	360.3	
+09 on Con. apron		4.43	360.23	

	364.66			
1+23				
E -5 N L 4 car gar.		4.27	360.39	cont
E -1 " apron		4.82	360.34	
E		4.3	360.4	
C		4.3	360.4	
W		4.6	360.1	
+10		4.8	359.9	
1+37				
E -2.1 Sin gar con.		4.08	360.58	
E -0.4 apron "		4.10	360.56	
1+51				
W -0.8 S.L.4 car gar.		4.4	3603	dirt
W		4.4	3603	
C		4.4	3603	
E		4.0	3607	
1+60 1+78 1+80				
W +0.2 N L 4 car gar.		4.0	3607	"
1+84				
E -8.7 Sin gar		4.0	3607	"

		364.66			
2+00					
E			3.9	3608	
C			4.0	3607	
+7.5	P.P. 14"				
+9.7	beg. fence				
W			3.7	3610	
2+35					
W			3.2	3615	
+0.7	fence				
C			3.5	3612	
E			3.4	3613	
2+70					
E			2.4	3623	
C			2.6	3621	
+7.6	Fence		2.5	3622	
W			2.4	3623	
3+00					
W			2.2	3625	
W	+4.8 14" P.P.		2.2	3625	
W	+2.8 end fence				
C			2.0	3627	
E			1.8	3629	

		364.66		1	
3+03					
W-1.3	54 2 car gar.		1.8	3629	dirt
3+25					
W-1.3	NL 2 car gar		1.1	3636	"
W			1.1	3636	
C			1.3	3634	
E			1.1	3636	
T.P.	575	369.06	135	343.31	
3+40					
W-1.1	& do. gar		5.8	3633	dirt
3+68					
E			5.4	3637	
C			5.5	3636	
W			5.6	3635	
+0.5	E Sin. gar.		5.45	3636	Cem.
3+94					
E-12.4	Sin. gar		5.6	3637	dirt

		369.06		
	4+00			
W		5.4	363.7	
+0.9	14" P.P.			
C		5.3	363.8	
E		5.5	363.6	
	4+11			
E - 16.4	Sin. gar.	4.9	364.2	dirt
	4+27			
E		4.8	364.3	
C		5.1	364.0	
W		5.1	364.0	
+0.2	5.4 do. gar.	4.93	364.13	Cem.
	4+30			
E - 4	8 Sin gar	4.47	364.64	"
E - 2	apron	4.56	364.50	"
	4+47			
W - 0.2	NL do. gar.	4.78	364.28	"
	4+64 beg. fence on W 0.4			in alley
	4+75 end	"	"	"

		369.06		
	4+77			
W		4.3	364.8	
+1.8	16" P.P.			
C		4.5	364.6	
E		4.6	364.5	
	5+14			
- 4.4	Sin gar	4.4	364.7	dirt
E		4.4	364.7	
C		4.2	364.9	
W		4.0	365.1	
	5+30			
W +0.2	5L cem walk			
	5+39	3.81	365.75	
W +0.2	NL cem Porch	1.33	367.73	
	5+50			
W		3.3	365.8	
C		3.3	365.8	
E		3.4	365.7	

		369.06			
5+73.04		SL Orange			
E	cb		2.55	366	51
E	dirt		2.6	366	5
C	"		3.1	366	0
W	"		2.7	366	4
W	cb		2.51	366	55
T.P.	4.84	371.35	2.55	366.51	
S cb Orange					
E.L	38th	curb	4.56	366	79
"	"	pav	4.91	366.	44
W L	alley	cb	5.02	366.	33
"	"	dirt gut	5.5	365	9
C	"	"	5.6	365	8
E	"	"	5.7	365	7
E	"	cb	5.18	366.	17
W L	39th	cb	5.58	365	77
"	"	pav.	6.20	365.	15

		371.35			
check to BM 39th + Orange			5.56	365.79	365.77 0.02
Add. Notes in alley					0+78
	5.45	365.59		360.14	apron
1+51					
W-15			5.3	360	3
1+60					
W-10 in gar.			5.2	360	4 dirt
W			5.2	360	4
C			5.2	360	4
E			4.9	360	7
+10	lawn		4.9	360	7
1+80					
-10			5.1	360	5
E			4.9	360	7
C			5.1	360	5

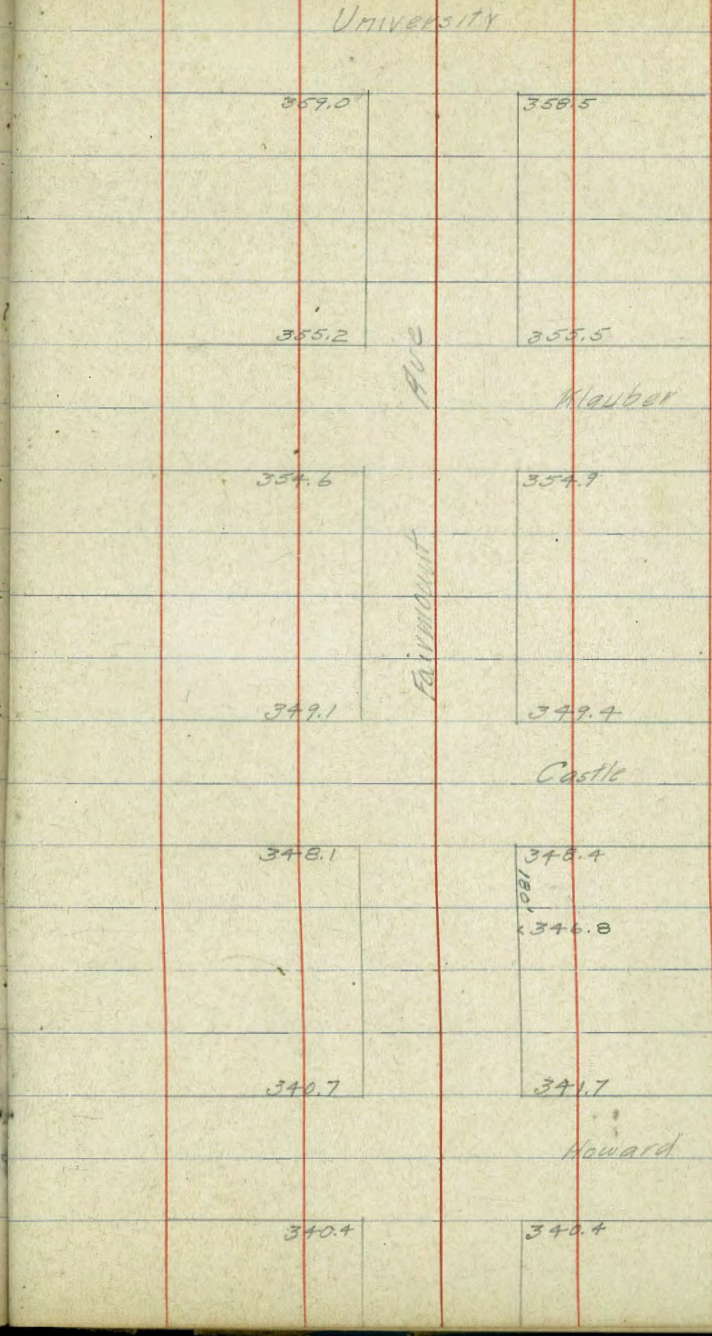
Outs plot 4-4-40 CBH

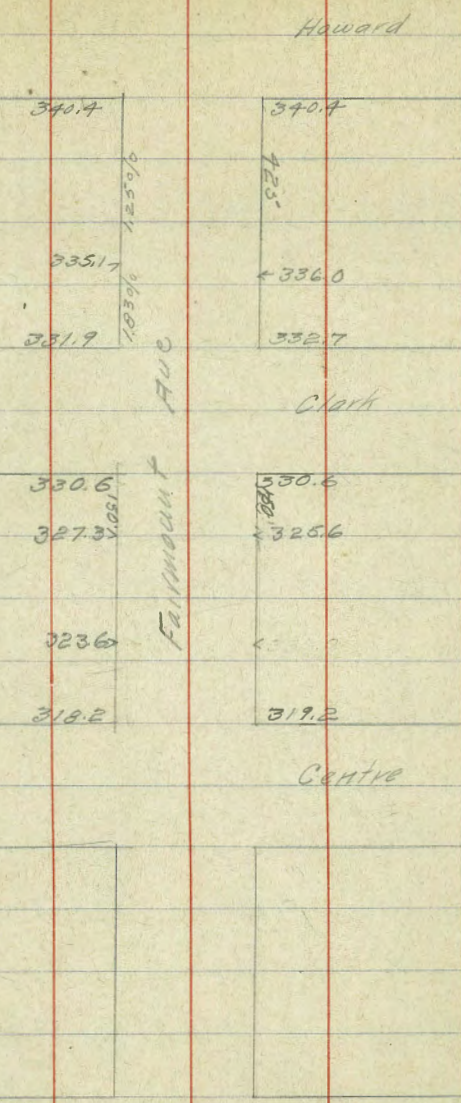
		365.59		
W			4.9	360.7
+10	Lawn		5.0	360.6
2+00				
W-10			4.5	361.1
E-10			4.5	361.1
2+35				
W-10			4.3	361.3
E-10			4.4	361.2
2+60				
E-10			4.0	361.6
E			3.9	361.7
C			3.9	361.7
W			3.7	361.9
+10			3.5	362.1
2+70				
W-10			3.4	362.2
E-10			3.6	362.0
T.P.	503	368.41	2.21	363.38

		368.41		
3+50				
E-15			5.0	363.4
E			5.0	363.4
C			5.0	363.4
W			4.8	363.6
+10			4.7	363.7
3+75				
-25			5.2	363.2
E			4.9	363.5
C			4.8	363.6
W			4.7	363.7
+10			4.6	363.8
4+00				
W-15			5.0	363.4
E-20			4.9	363.5
4+20				
-10			4.4	364.0
E			4.4	364.0
C			4.6	363.8

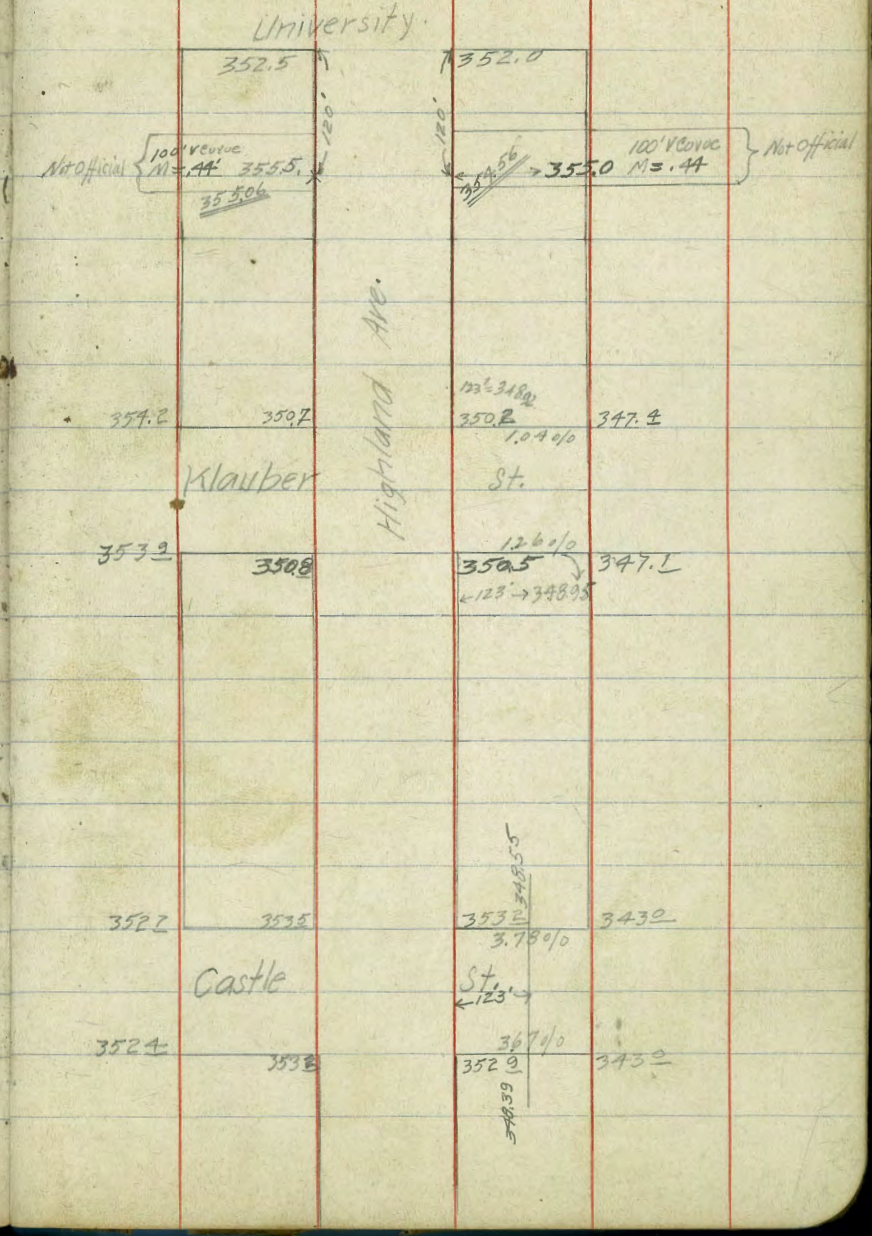
		348.41			
W			4.5	363.9	
+15			4.7	363.7	
	4+47				
C			4.W	364.2	
E			4.1	364.3	
+10			3.9	364.5	
T.P.	551	369.31	4.61	363.80	T.P. P 58
	4+64				
-10			5.0	364.3	
W			5.1	364.2	
C			4.9	364.4	
E			4.8	364.5	
+7	AGAINST HOUSE		4.8	364.5	
	4+77				
E-10			4.9	364.4	
W-20			4.5	364.8	
	5+00				
-20			4.1	365.2	

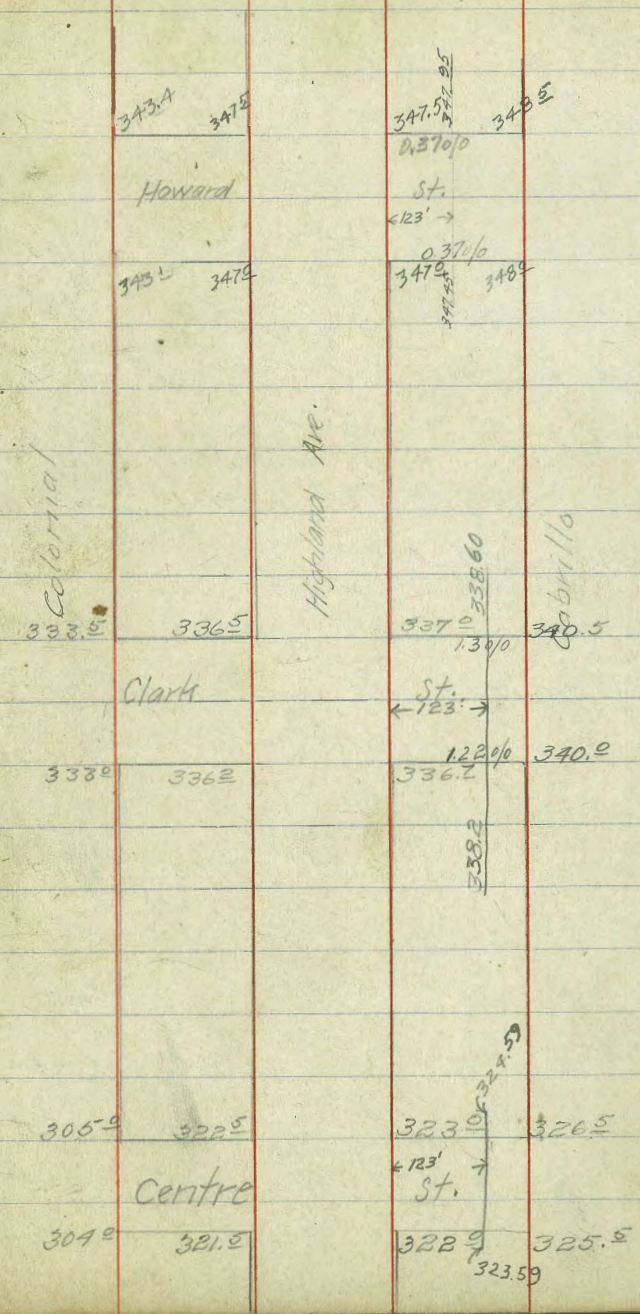
		349.31			
W			4.4	364.9	
C			4.6	364.7	
E			4.6	364.7	
+20			4.6	364.7	
	5+25				
-15			4.3	365.0	
E			4.6	364.7	
C			4.2	365.1	
W			4.0	365.3	
+10			3.8	365.5	
	5+50				
W-7			3.6	365.7	
E-7			3.8	365.5	
E-4			3.3	366.0	
E-10			3.4	365.9	
E-15			3.9	365.4	


University
359.0
358.5
355.2
355.5
Ave
Klauber
354.6
354.9
Fairmount
349.1
349.4
Castle
348.1
348.4
Block
346.8
340.7
341.7
Howard
340.4
340.4

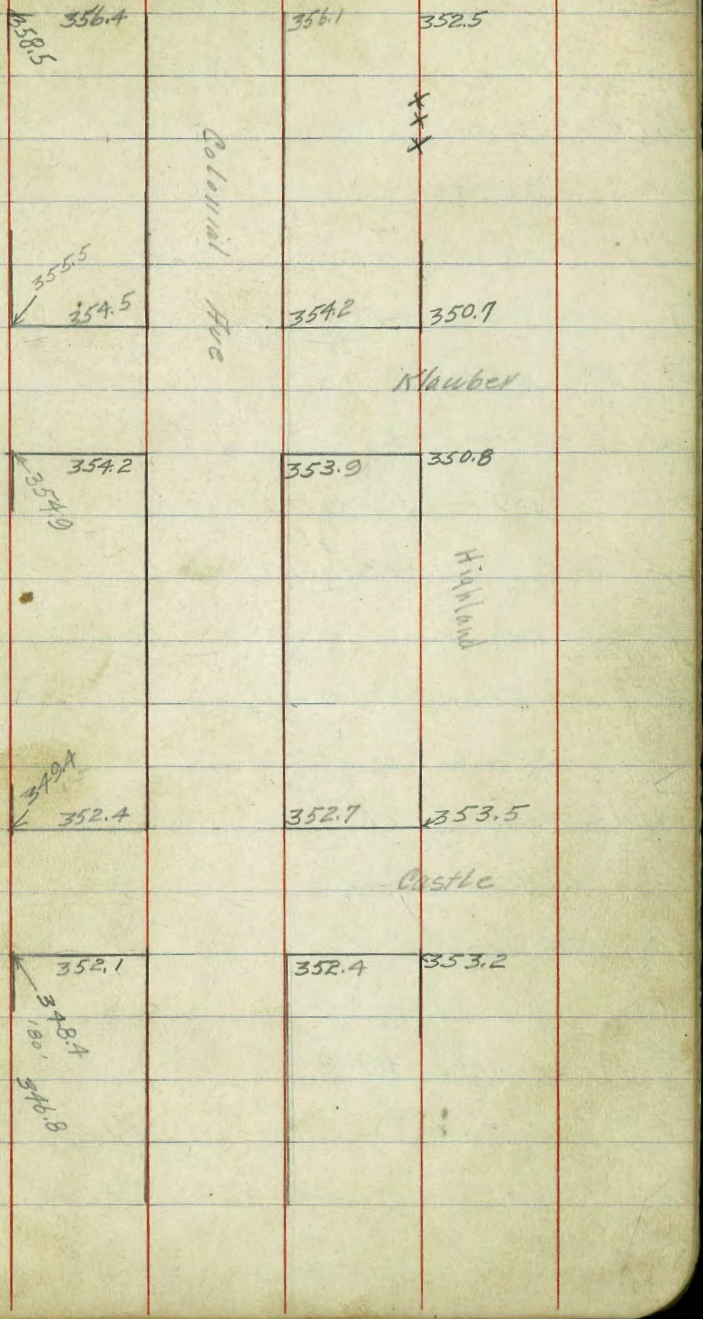

Howard
340.4
340.4
1.25%
425'
335.1
336.0
1.83%
331.9
332.7
Clark
Fairmount Ave
330.6
330.6
327.3
325.6
323.6
318.2
319.2
Centre

Curb grades Highland.

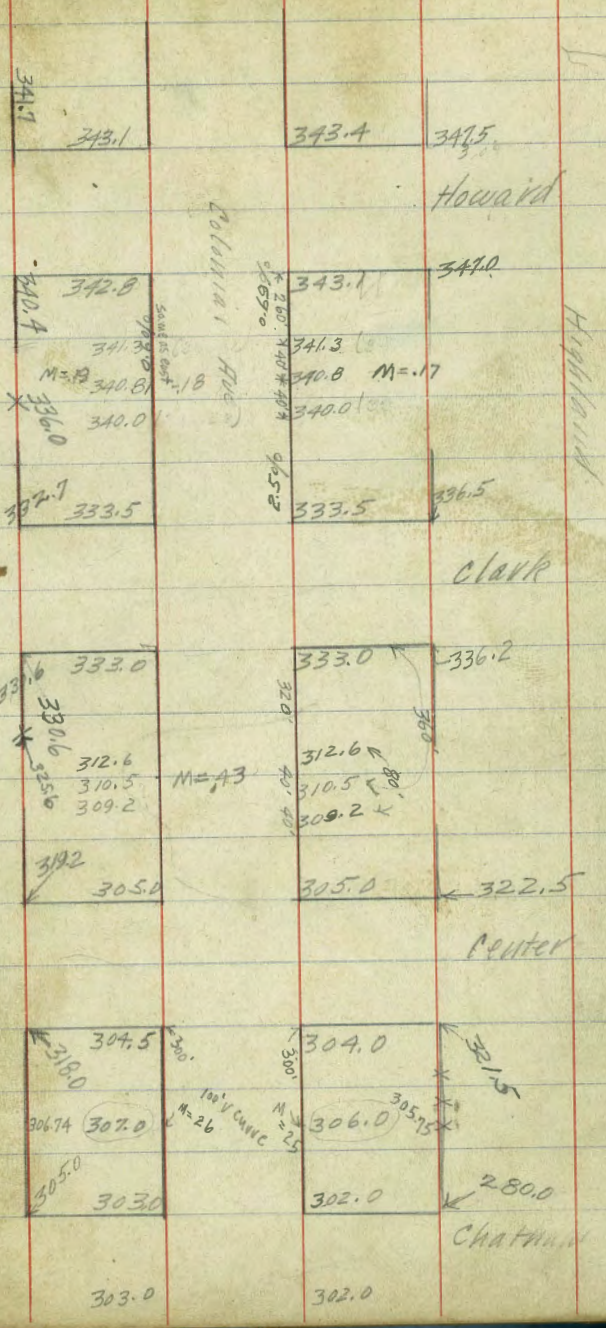



343.4
347.5
347.5
347.95
348.5
0.37 o/o
Howard
St.
123'
0.37 o/o
343.1
347.0
347.0
347.45
348.0
Colonial
Highland Ave.
Cabrillo
338.60
333.5
336.5
337.0
340.5
1.3 o/o
Clark
St.
123'
1.22 o/o
338.0
336.2
336.2
340.0
338.2
324.59
305.0
322.5
323.0
326.5
123'
Centre
St.
304.0
321.5
322.0
325.5
323.59

	West Grade	East Grade	Sta	Grade West	Grade East
a Univ. 0+00 S.L. Univ.			S.L. Castle		
0+40	356.40	356.10	14	352.10	352.40
1	356.20	355.90	15	350.6	350.9
2	355.89	355.69	16	349.1	349.4
3	355.58	355.28	17	347.6	347.9
4	355.26	354.96	18	346.1	346.4
5	354.94	354.64	19	344.60	344.9
6	354.63	354.33	N.L. Howard 20	343.10	343.40
N.L. Klauber 6+40	354.5	354.2			
			S.L. Howard 20+80	342.8	343.10
S.L. Klauber 7+20	354.2	353.9	21	342.68	342.96
8	353.96	353.74	22	342.11	342.27
9	353.66	353.54	23	341.53	341.58
10	353.36	353.34	23+40	341.3	341.3
11	353.06	353.14	23+80	340.8	340.8
12	352.76	352.94	24+20	340.0	340.0
13	352.46	352.74	25	338.0	338.0
N.L. Castle 13+20	352.4	352.7	26	335.5	335.5
			N.L. Clark 26+80	333.5	333.5



Sta	West Grade	East Grade	Sta	West Grade	East Grade
			40	303.53	302.03
S.L. Clark			N.L. Chatham		
27+60	333.00	333.00	40+40	303.0	302.0
28	330.45	330.45			
29	324.07	324.07			
30	317.7	317.7			
30+80	312.6	312.6			
31+20	310.5	310.5			
31+60	309.2	309.2			
32	308.36	308.36			
33	306.26	306.26			
N.L. Center					
33+60	305.00	305.00			
S.L. Center					
34+40	304.50	304.00			
35	305.0	304.40			
36	305.83	305.06			
37	306.66	305.73			
37+40	307.00	306.00			
38	306.20	305.20			
39	304.87	303.87			



							On	Bet.	And-	
B.M.				355.35	Check This	South	Klauber	Fairmont	Colonial.	Spike in Pole
"				349.75		N.E.	Fairmont	&	Castle	"
"				353.95		"	Highland	&	"	"
"				344.33		N. of N.L. Howard in Alley bet Fairmont & Colonial				
"				333.98		S/E	Clark	&	Colonial	"

ENGINEERING DEPARTMENT,
CITY OF EAST SAN DIEGO,
CALIFORNIA.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

ROADWAY 14 FEET WIDE. SIDE SLOPES 1½ TO 1.

FOR SINGLE TRACK EMBANKMENT.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	7.0	7.2	7.3	7.5	7.6	7.8	7.9	8.1	8.2	8.4	0
1	8.5	8.7	8.8	9.0	9.1	9.3	9.4	9.6	9.7	9.9	1
2	10.0	10.2	10.3	10.5	10.6	10.8	10.9	11.1	11.2	11.4	2
3	11.5	11.7	11.8	12.0	12.1	12.3	12.4	12.6	12.7	12.9	3
4	13.0	13.2	13.3	13.5	13.6	13.8	13.9	14.1	14.2	14.4	4
5	14.5	14.7	14.8	15.0	15.1	15.3	15.4	15.6	15.7	15.9	5
6	16.0	16.2	16.3	16.5	16.6	16.8	16.9	17.1	17.2	17.4	6
7	17.5	17.7	17.8	18.0	18.1	18.3	18.4	18.6	18.7	18.9	7
8	19.0	19.2	19.3	19.5	19.6	19.8	19.9	20.1	20.2	20.4	8
9	20.5	20.7	20.8	21.0	21.1	21.3	21.4	21.6	21.7	21.9	9
10	22.0	22.2	22.3	22.5	22.6	22.8	22.9	23.1	23.2	23.4	10
11	23.5	23.7	23.8	24.0	24.1	24.3	24.4	24.6	24.7	24.9	11
12	25.0	25.2	25.3	25.5	25.6	25.8	25.9	26.1	26.2	26.4	12
13	26.5	26.7	26.8	27.0	27.1	27.3	27.4	27.6	27.7	27.9	13
14	28.0	28.2	28.3	28.5	28.6	28.8	28.9	29.1	29.2	29.4	14
15	29.5	29.7	29.8	30.0	30.1	30.3	30.4	30.6	30.7	30.9	15
16	31.0	31.2	31.3	31.5	31.6	31.8	31.9	32.1	32.2	32.4	16
17	32.5	32.7	32.8	33.0	33.1	33.3	33.4	33.6	33.7	33.9	17
18	34.0	34.2	34.3	34.5	34.6	34.8	34.9	35.1	35.2	35.4	18
19	35.5	35.7	35.8	36.0	36.1	36.3	36.4	36.6	36.7	36.9	19
20	37.0	37.2	37.3	37.5	37.6	37.8	37.9	38.1	38.2	38.4	20
21	38.5	38.7	38.8	39.0	39.1	39.3	39.4	39.6	39.7	39.9	21
22	40.0	40.2	40.3	40.5	40.6	40.8	40.9	41.1	41.2	41.4	22
23	41.5	41.7	41.8	42.0	42.1	42.3	42.4	42.6	42.7	42.9	23
24	43.0	43.2	43.3	43.5	43.6	43.8	43.9	44.1	44.2	44.4	24
25	44.5	44.7	44.8	45.0	45.1	45.3	45.4	45.6	45.7	45.9	25
26	46.0	46.2	46.3	46.5	46.6	46.8	46.9	47.1	47.2	47.4	26
27	47.5	47.7	47.8	48.0	48.1	48.3	48.4	48.6	48.7	48.9	27
28	49.0	49.2	49.3	49.5	49.6	49.8	49.9	50.1	50.2	50.4	28
29	50.5	50.7	50.8	51.0	51.1	51.3	51.4	51.6	51.7	51.9	29
30	52.0	52.2	52.3	52.5	52.6	52.8	52.9	53.1	53.2	53.4	30
31	53.5	53.7	53.8	54.0	54.1	54.3	54.4	54.6	54.7	54.9	31
32	55.0	55.2	55.3	55.5	55.6	55.8	55.9	56.1	56.2	56.4	32
33	56.5	56.7	56.8	57.0	57.1	57.3	57.4	57.6	57.7	57.9	33
34	58.0	58.2	58.3	58.5	58.6	58.8	58.9	59.1	59.2	59.4	34
35	59.5	59.7	59.8	60.0	60.1	60.3	60.4	60.6	60.7	60.9	35
36	61.0	61.2	61.3	61.5	61.6	61.8	61.9	62.1	62.2	62.4	36

Calculated by Julien A. Hall, M. Am. Soc. C. E.

MADE IN GERMANY.