LEVEL BOOK.

No. 410 T

F.B.564

OFFICE OF THE CITY ENGINEER
EAST SAN DIEGO CAL.

ENGIN ... MENT,
CITY ... GO.
CALIFORNIA.

Card Indexed Mar 21, 1918

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58

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Drawing Materials and Surveying Instruments.

NEW YORK. CHICAGO. SAN FRANCISCO.

TABLES FOR EXCAVATIONS AND EMBANKMENTS.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING

ROADWAY 20 FEET WIDE. SIDE SLOPES 1 TO 1.

FOR SINGLE TRACK EXCAVATION.

Copyright, 1902. No. 39340.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	10.0	10.1	10.2	10.3	10.4	10 5	10.6	10.7	10.8	10.9	0
1	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11 7	11.8	11.9	1
2	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	2
3	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	3
4	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	4
5	15.0	15.1	15 2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	5
6	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	6
7	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	7
8	18.0	18.1	18.2	18.3	18 4	18.5	18.6	18.7	18.8	18.9	8
9	19 0	19 1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	9
10	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	10
11	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	11
12	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	12
13	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	13
14	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	14
15	25.0	25.1	25 2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	15
16	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26 8	26.9	16
17	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	17
18	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	18
19	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	19
20	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	20
21	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	21
22	32.0	32.1	32.2	32 3	32.4	32.5	32.6	32.7	32.8	32.9	22
23	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	23
24	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	24
25	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	25
26	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36 7	36.8	36.9	26
27	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37 8	37.9	27
28	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38 9	28
29	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	29
30	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	30
31	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	31
32	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	32
33	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	33
34	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	34
35	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	35
36	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	36
37	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	37
38	48.0	48 1	48 2	48.3	48.4	48.5	48.6	48.7	48 8	48.9	38
39	49.0	49.1	49.2	49.3	49.4	49.5	49.6	49.7	49.8	49.9	39
40	50.0	50.1	50.2	50.3	50.4	50.5	50.6	50.7	50.8	50.9	40

Calculated by F. E. Paradis, C. E.

Note:- Card Index brought up to page 60 (GFH)

Pacific
Wilson
Swift

Index

	Page
Curb stakes Pacific (Anna-Cajon)	1-2
" " Anna & Orange (Pacific	3-4
Finish grades on Pacific	5-7
Track stakes: Steiner & Pacific	8
Curb stakes Klauber & Castle (Pacific	9-10
Grade Diagram of Pacific	20-21
Cut & Fills. Wilson.	22-25
Curb stakes. Wilson	26
" " " & Anna	27
Wilson Sub Grade Orange to El Cajon 1-13-15	28
Curb stakes Wilson (Steiner-Klauber)	29
Sub-grade (Orange-Cajon)	30
" " (Orange-Anna)	31
" " Orange E & W. Wilson	32
" " " "	33
Final Check Pacific	34
[illegible]	37
[illegible]	[illegible]
[illegible]	[illegible]

Index

	Page
Wilson	
Cut + fills Wilson	22-25
Grade diagram	41-42
Curb stakes Wilson Klauber-Castle	37
" " Castle E + W of Wilson	37-38
Swift	
x-sections Castle, Klauber, Anna + Orange	43-45
Cut + fills Swift + x-streets, Stainer North	46-49
" " " " " South	50-54
Curb stakes Swift-Cajon	54-55

	Street	From	To	Page
Official Grades	Pacific	Cajon	325' S of Castle	20-21
Curb Stakes	"	"	Orange	1
Official Grades	Wilson	Cajon	Castle	41-42
Cuts + Fills	"	"		
X-Sections	Castle	Alley E. of Swift	to Wabash	43
"	Klauber	"	to Wabash	44
"	Anna	"	" Alley W. Swift	45
"	Orange	"	" " "	45
Grade Diagram Swift				73-75

Curve Stakes Pacific

Sta	+	HI	−	Elev.	
* B.M.				377.52	
NE Pacific Orange	440	381.92	4.12	377.80	
			2.72		
* B.M.				377.52	
NW orange Pacific	4.51	382.03	4.03	378.00	
B.M.				381.11	
SW Pacific Cajon	4.66	385.77	✓ 5.17	380.60	
Curve " SE "			X 4.66	381.11	S.B. 381.00
B.M.				377.52	
SE Pacific orange	4.17	381.69	✓ 4.59	377.10	
SW "	4.07	381.59	4.29	377.30	
B.M.				370.12	
SW Pacific Anna	4.52	374.64	✓ 4.64	370.00	
SE "			✓ 4.14	370.50	
N.E "	4.66	374.78	✓ 3.88	370.90	
N.W. "			4.38	370.40	

July 20-1914
Ford
Brown
Knudtson.

1

B.M. Book 1
Page 48

R.R. Spike Pole N.E. Orange & Pacific

B.M. Book 1
Page 48

Nail Pole S.E. Pacific & Cajon

- Curve & walk in -

July 29-1914
Ford
Brown
Knudtson

RR Spike Pole N.E Orange & Pacific

July 28-14.
Ford
Brat
Knudtson

RR Spike Pole SW Pac & Anna

(continued)

	+	H.I.	−	Elev	
B.M	4.61	482.13		377.52	N.E. Pacific & Orange
N.E. Orange & Pac.			4.33	377.9	
N.W. " & Pac.			4.13	378.0	
℄ Alley Pac. & Wilson N.L.			4.83	377.30	
25' W of Alley N.L.			4.79	377.34	
½ W of Alley & Pac. N.L. orange			4.56	377.57	
℄ Alley bet Pac & Swift			5.08	377.05	
95' E. Alley North L orange			5.01	377.12	
61.5' W of Pacific			4.57	377.56	
B.M. South Line Orange				377.52	
145.80 E. Pacific	4.13	381.65	5.00	376.65	
123.00 E. "			4.93	376.72	
61.50 E. "			4.74	376.91	
118.20 W "			5.15	376.50	
59.1' W "			4.75	376.90	

Curb stakes. Anna at Pacific

	+	H.I.	−	Elev	
B.M	5.10	375.22		370.12	
N.E. Anna × Pac.			4.32	370.90	
N.W. Anna × Pac.			4.82	370.40	
~~158.7 W. Pac.~~			~~5.29~~	369.93	
~~146.7 W. Pac.~~			~~5.25~~	~~369.97~~	
~~141.3 E. of Pac.~~			4.76	370.46	
~~129.3 E. of Pac.~~			4.72	370.50	
B.M	4.93	375.05		370.12	
S.W. Cor Anna × Pacific			5.05	370.0	
150' W of Pac.			5.50	369.55	
138' W of Pac.			5.46	369.59	
150' E of Pac.			5.00	370.05	
138' E of Pac.			4.96	370.09	
	4.10	374.50		370.40	
S.E. Cor Anna × Pac.			4.00	370.50	
B.M	5.22	375.34		370.12	
135' E of Pac.			4.86	370.48	
123' E of Pac.			4.82	370.52	

Spike in pole S.W. Pac. × Anna. A.H. Graft L. Knudtsom 8/9/14

Spike in pole S.W. Pac. × Anna

N.W. Cor Pacific × Anna

Spike pole S.W. Cor. Pac. × Anna A.H. Graft L. Knudtsom 8/12/14

Curb stakes on Anna (Cont'd)

	+	H.I	−	Elev	
~~B~~ B.M	4.87	374.99		370.12	
135' W of Pac.			4.98	370.01	
123' W of Pac.			4.95	370.04	
	Orange at Pacific				
B.M	4.71	382.23		377.52	Spike pole N.E. Orange & Pacific
135' W of Pac.			5.85	376.38	
123' W of Pac.			5.77	376.46	
	Curb Stakes Pacific				
Hyatt	-	366.19			
NE Steiner Pacific			4.99	361.20	
			4.89	361.30	
	Finish Pacific				Sept. 21-1914 Ford Graf Knudtson-
B.M.				352.25	Spike Pole SL Klauber bet Pac & Wilson
250' S of SL Klauber East	4.27	356.52	11.77	344.75	
200'S "			10.02	346.5	Mkd C2.6 C1.6 Error in Reducing Pad & Notes
SE Pac Klauber			4.02	352.5	
NE Pac Klauber			3.52	353.0	
East Line 100'S of SL Klauber			7.02	349.5	+0.8

Sept 22-1914
Ford
Graf
Hyatt

Dist 19 - Finish Stakes To Grade Pacific

Sta	+	HI	-	Elev		
B.M				361.40		Spike Pole NE Pacific & Steiner
SE Pac Steiner	4.17	365.57	4.67	360.90		
SW "			4.77	360.80	Marked - 0.5 Error ± Notes - +0.5	
BM				352.25		RR Spike Pole SL Klauber Alley bet Pacif & Wilson
NW Pac & Klauber	5.70	357.95	5.55	352.40		
SW "			6.05	351.90		
BM				352.25		" " " " " " " "
West L Pacific 250'S of SL Klauber	4.27	356.52	12.40	344.12		
200' " " " "			10.62	345.90		
100' " " " "			7.62	348.90		
				352.25		" " " " " " " " oct 1-1914 Ford-
NE Pacific Klauber	4.60	356.85	3.85	353.00		
NW "			4.45	352.40		
BM				352.25		oct 9-1914 AG
T.P.	3.75	356.00	12.90	343.10		
T.P.	0.65	343.75	10.95	332.80		
NE Castle Pacific	1.16	333.96	6.46	327.50	+1.0	
T.P.			8.13	325.83		Nail Pole SW Castle & Pacific

Sta	+	H.I	−	Elev	
T.P.				325.83	
NE Castle Pacific	7.51	333.34	5.84	327.50	4.84 +1.0
SE "			6.84	326.50	
E.L. Pacific 100' N of N Castle			0.84	332.50	
NW "			7.14	326.20	6.14 +1.0
SW "			8.14	325.20	
T.P.				325.83	Nail Pole SW Pacific Castle
	11.79	337.62			
N.W. Cor			10.42	327.20	Marked El. 0
T.P.			0.11	337.51	
	12.95	350.46			
T.P.			0.61	349.85	
	7.05	356.90			
B.M.			4.64	352.26	

Oct 19 - 1914
Ford-
Graf
Knudtson

Finish Stakes to Grade Pacific

Sta	+	HI	−	Elev	
T.P.				325.83	Nail Pole SW Pacific Castle
NE Pacific Castle	7.36	333.19	✓5.69	327.50	
SE "			✓6.69	326.50	
T.P.					
NW Pacific Castle	7.43	733.26	✓7.06	326.20	
SW "			✓8.06	325.20	
SE "			✓6.76	326.50	
T.P.			13.01	320.25	
E.L. Pacific 325' So/SL Castle	1.43	321.68	✓5.58	316.10	
			1.43	320.25	
W.P.L. Pac 325' So/SL Castle	0.93	321.18	✓5.68	315.50	
B.M.				352.25	Spike Pole SL Klauber SL Klauber Alley bet Wilson & Pac
250' So/SL Klauber	4.42	356.67	11.92	344.75	
SE Pac & Klauber			4.17	352.50	

Stakes on Steiner & Pacific
For Raising Trucks to let Culvert Through

Sta	+ -	HI	-	Eleo	Grade
				361.40	
NE Pac & Steiner	481	366.21	494	361.27	361.20
NW			484	361 37	361.30
SE			525	360 96	360.90
SW			534	360.87	360.80
℄ Steiner East Curbline Pac.			5.06	361.15	
℄ Steiner West " " "			5.06	361.15	
B.M.				325.83	
SE Pac Castle	692	332.75	6.25	326.50	
T.P.	-		12.58	320.17	
EL. Pac. 325' S of SL Castle	321	323.38	7.28	316.10	

Oct 24-1914
Ford
Leakey

Nov 3-1914
Ford
Hyatt
Graf

Nov 5 1914
Ford
Hyatt
Graf

9

Curb stakes Klauber

Sta	+	HI	−	Elev
BM. SL Klauber				352.25
138' E of EL Pac	4.84	357.09	✓ 6.20	350.89
SE Pac & Klauber			✓ 4.59	352.50
SW " " "			✓ 5.19	351.90
SL Klauber 138' W of WPL Pac			✓ 11.91	345.18
T.P. NL Klauber			9.20	347.89
138' W of WL Pacific	2.43	350.32	✓ 4.41	345.91
SW Klauber & Pac ON CWG Stake				351.90
NW Klauber Pacific	5.13	357.03	✓ 4.63	352.40
NE "			✓ 4.03	353.00
BM				352.25
	5.32	357.57	6.68	350.89
NL Klauber 138' E of EL Pacific			6.18	351.39
BM.				352.25
SE Pac Klauber	4.61	356.86	4.36	352.50
EL Pac 2.50's of SL Klauber			12.11	344.75
WL Pac " " "			12.74	344.12
SW Pac Klauber			4.96	351.90

Spike. Pole. SL Klauber Alley bet Pac & Wilson

Nail Pole SL Klauber Alley Bet Swift & Pac.

A.H. Graf
F. Hyatt
Nov. 5, '14

Curb stakes on Pacific (Castle)

	±	H.I.	+	Elev	
	6.84	332.67		325.83	
N.E. Pac. Castle			5.17	327.5	
N.W. Pac. Castle			6.47	326.2	
S.W. Pac. Castle			7.47	325.2	
	5.04	321.14		316.1	
325' S of on W.S. S.L. Castle			5.64	315.5	
Curb Stakes Castle E of Pac					
BM				325.83	
SE Pac & Castle	5.33	331.16	4.66	326.50	
SL Castle 138' E of EL Pac			1.90	329.26	
NE Pac Castle			3.66	327.50	
NL Castle 138' E of EL Pac	6.76	334.26	4.00	330.26	
BM				325.83	
SW Castle Pac	5.57	331.40	6.23	325.17	SB 325.20 Nail Brace Pole
TP			12.56	318.84	
	1.18	320.02	11.38	308.64	
			10.38		

Nail pole S.W. Pac. & Castle

325' S of S.L. Castle on E side Pac.

Nov 6-1914

Nail Pole SW Pac & Castle

Nov 20-1914

Nail Pole SW Pac & Castle

Xsec of 20' alley
Blk 173 U.H.

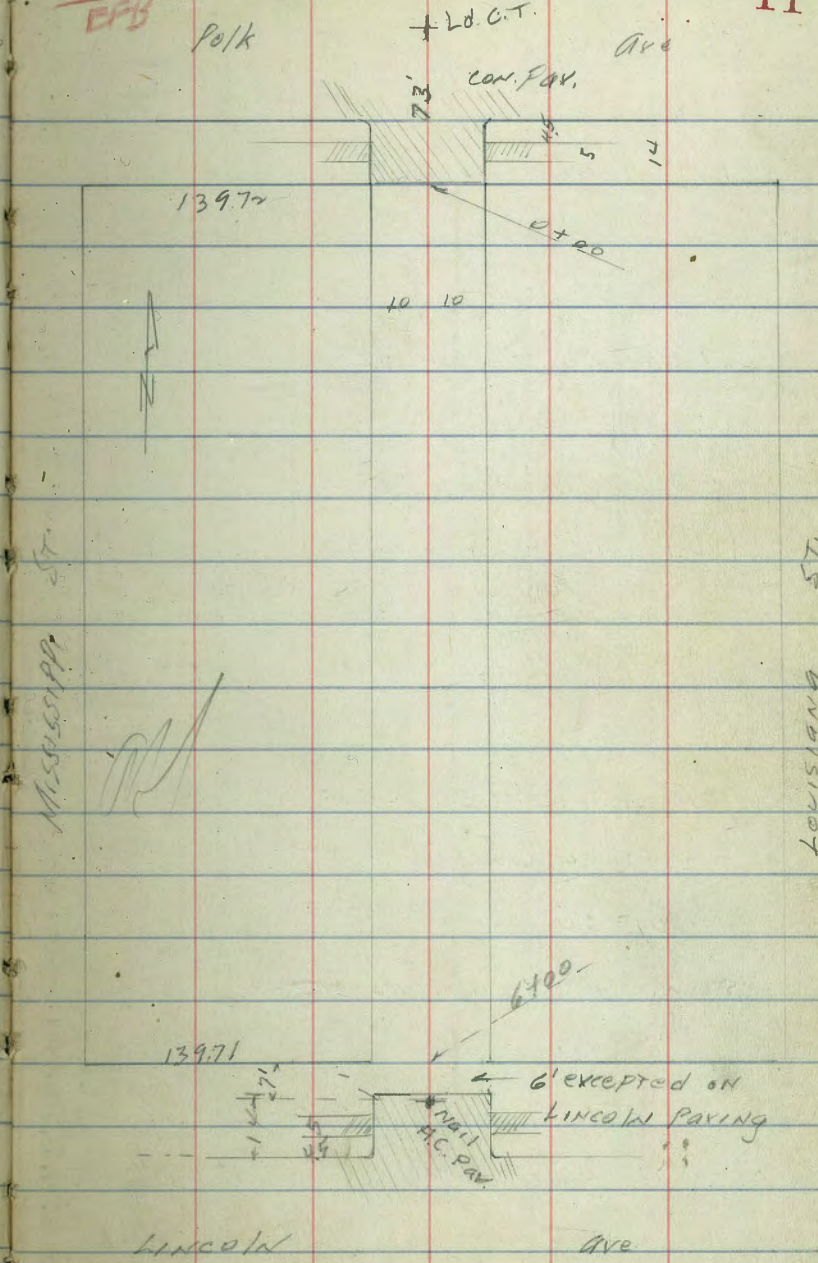
Moore
Osborn
Hale
6-22-40

NE 1'C.T	142	312.54		311.12	Polk & Miss
SEBP			2.64	309.90	309.91
0-14 S of Polk					
W Pav			5.69	306.85	
E "			6.20	306.34	
0+00 SL Polk ave					
E of			5.50	307.04	
E Pav			5.61	306.93	
C "			5.79	306.75	
W "			5.34	307.20	
W of			4.85	307.69	
+ 0.5 beg. Rock wall					
0+05					
W - 0.5 Top "			3.62	308.92	
W			4.7	307.8	
C			5.3	307.2	
E			4.8	307.7	
0+22					
E			5.2	307.3	

Reduced & Plotted by H.M. Cole
Profile 1899 6/25/40

INDEXED
EFB

11



	312.54			
C		5.2	307.3	
+9.7 N edge	cem apron	4.40	308.14	
W Sand wall		3.5	309.02	
0+27				
W -4.7 N edge do. gar		3.08	308.86	cem.
0+42				
W -4.7 S edge " "		3.7	308.82	"
W +0.1 " cem apron		4.78	307.76	
C		5.7	306.8	
E		5.8	306.7	
0+50				
W N edge cem apron		5.13	307.41	
W -4.8 " 4 car gar		4.85	307.69	Cem
0+61				
E +0.5 W edge 18' diam		Acacia Tree		
0+69				
W +0.1 Cem apron		5.6	306.92	
W -4.8 E 4 car gar		4.8	307.72	
0+70				
W -4.8 floor 5½ above		of gar.		

	312.54			
T.P.	2.06	308.81	5.79	306.75
0+80				
E -10.9 E New	18 wide do. gar.		2.85	305.96 No fl. yet but rod ok
E			3.4	305.4 Top Cem. Curtain Wall will be 1'.
C			3.5	305.6
W -0.1 on cem	apron		2.1	306.67
0+89				
W -0.1 cem	apron		2.40	306.41
W -4.9 S edge	4 car gar.		1.77	307.04 Cem.
0+98				
W E 2.75 wide	concave cem walk		2.7	306.09 for drainage
1+00				
W +0.2 P.I.				
1+09				
W			3.5	305.3
C			4.4	304.4
E			4.5	304.3
+5 E 5 in gar.			3.90	304.91 Cem

308.81

			6' High
1+23	Beg. Bd fence	0.2	in alley
E		4.8	304.0
E - 40		7.1	301.7
1+50	end Bd. fence	0.4	" "
1+57			
W - 0.1	N.L Conc apron	4.0	304.79
W - 5.3	" 5 Corr gar	3.5	305.29 Conc
1+58			
E - 2.2	E Sin. gar conc	4.97	303.84
E	Break grade conc apron	5.7	303.54
E + 4.3	edge "	5.35	303.46
C		5.3	303.5
W - 0.2	conc "	4.07	304.74
1+75			
E + 0.7	E 2.5 conc step	5.64	303.17
E + 0.2	" " walk	6.13	302.68
E - 10	" " "	6.51	302.30
2+00			
W - 5.5	5L 5 Corr gar	3.57	305.24 Conc
W - 0.2	" " "	4.45	304.36

308.81

W		4.5	304.3
+ 0.3	P.P.		
+ 3		5.6	303.2
C		6.1	302.7
E		6.2	302.6
2+07			
E - 5.6	E Sin. gar	6.6	302.2 dirt
2+44			
E - 30		9.1	299.7
E		7.2	301.6
C		7.5	301.3
W		6.7	302.1
+ 19	Sin. gar	6.7	302.1 dirt
2+70			
E + 0.1	beg. fence in alley		
2+85			
E + 0.4	end "	"	"
2+94			
E - 6.2	Sin. gar	8.7	300.1 dirt
F		8.7	300.1

308.

C		8.5	300.3
W		8.1	300.7
	3+00		
	W+0.7 P.P.		
C	SMH Rim	8.41	300.40
	3+50 N end of Shed 0.7 in alley E of		
-10		8.7	300.1
W		10.0	298.8
C		10.5	298.3
E		10.5	298.3
+50		12.5	296.3
T.P.	0.36	300.67	8.50 300.31
	8+87		
	S end Shed on E 0.4 in alley		
	4+07		
-50		5.5	295.2
E		4.1	296.6
C		3.8	296.9

300.47

W	P.P.	3.4	297.3
	4+08		
W-4.4	Sin. gar	3.41	297.26 Cem
	4+18		
W-4.4	" "	3.49	297.18 "
	4+44		
W		5.2	295.5
C		6.0	294.7
E		6.2	294.5
+2	Sin. gar.	6.1	294.6 dirt
	4+54		
W	ground	5.7	295.0
W-1	Top N end	4.84	295.83 Cem Cor 6
	4+57		
E-0.5	Sin gar	7.1	293.6 dirt
	4+67		
E	Sin. gar	7.5	293.2 "
	4+80		
-20		7.2	293.5
E		7.9	292.8

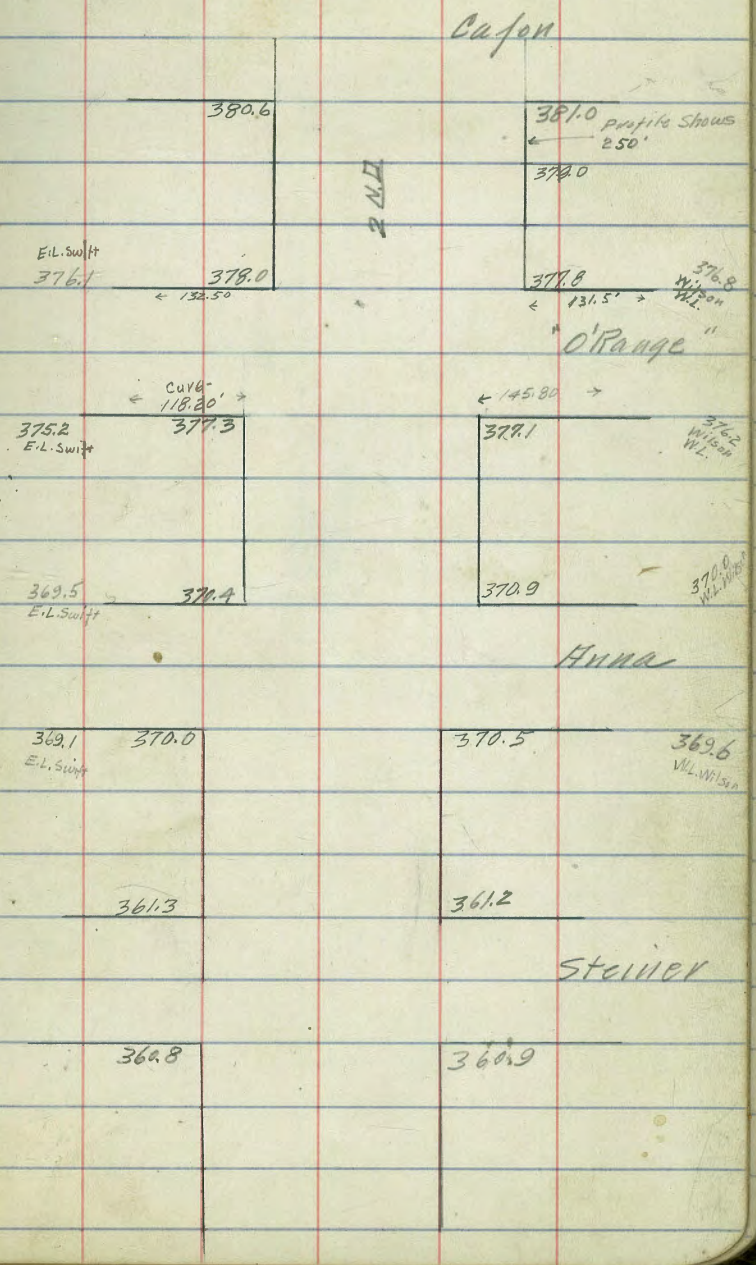
300.67

C	7.7	293.0	
W Top cen	7.1	293.6	
+1 Sand c6	6.33	294.34	
+10	6.5	294.2	
4+90			
E -29 Sin gar Cem	7.38	293.29	
E +0.7 E 9' apron "	8.01	292.66	
5+15			
W -20	9.0	291.7	
W	9.5	291.2	
C	9.3	291.4	
E	9.4	291.3	
+20	8.6	292.1	
5+29			
W +0.4 PP			
5+60			
W -2.2 E de. gar. Cem	10.04	290.63	17 wide
W	9.90	290.77	
C	9.8	290.9	
E	9.9	290.8	

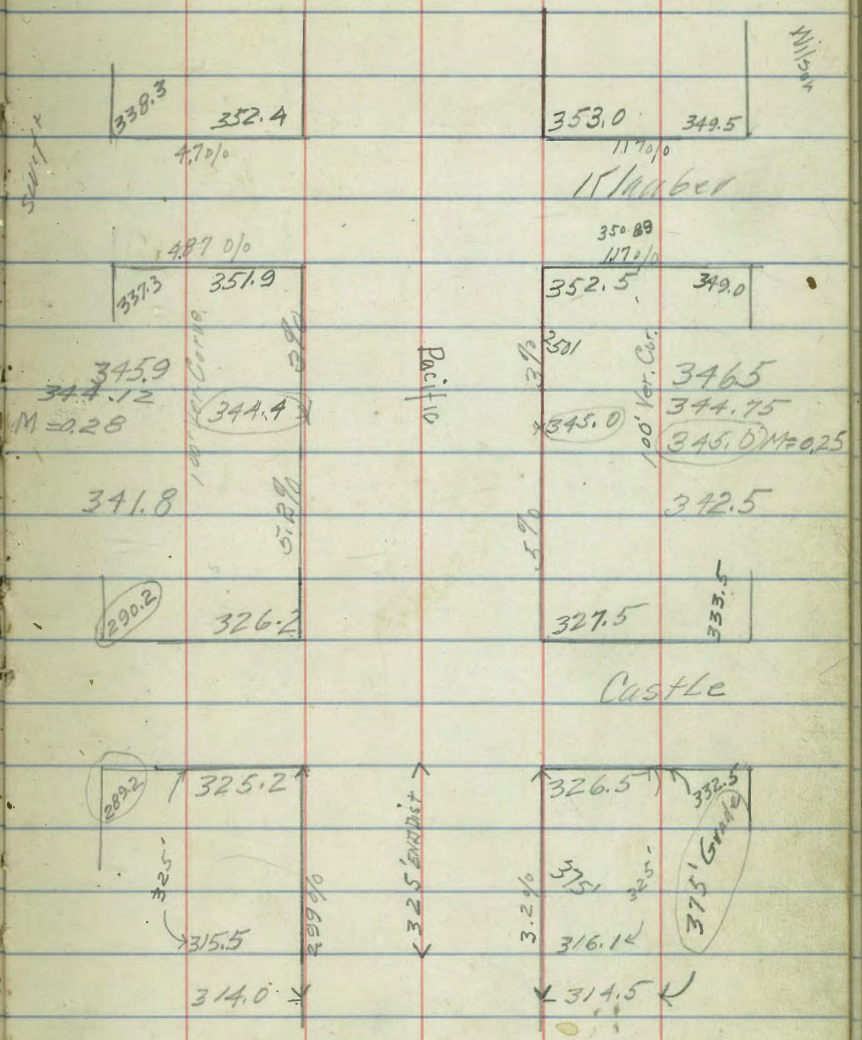
300.67

+15	9.8	290.9	
5+75			300.67
			1.54
-10	9.7	291.0	299.13
			9.17
E	9.8	290.9	308.30
			1.41
C	9.8	290.9	306.89
			7.26
W	10.1	290.6	314.15
			4.26
+20	10.4	290.1	309.89
6+00 N L Lincoln			309.90
W	10.1	290.6	SEBP Polk & Miles
C	9.6	291.1	
+7	9.5	291.2	290.06 290.95
E	8.6	292.1	
6+06 edge Pav. end alley			Returns
E c6	8.75	291.92	
E Pav	8.95	291.72	10.41 Lincoln 9.7
+3 "	9.10	291.57	
+35 "	9.26	291.41	N c6 Lincoln Pav
C "	9.73	290.94	S E
W "	10.07	290.60	
W c6	9.89	290.78	

B.M.	Spike Pole	SE. Pac + Cajon.	381.11		
B.M.	Spike Pole	NE Pac + Orange	377.52		
	Spike Pole	N.W. Pac + Anna	370.12		
New B.M. (HVAH) Aug 12-14	RR Spike	Pole D70	NE Pac +	361.40	Steiner
B.M. (Moved)	Spike	Pole	N.E. Pac +	361.45	Steiner



B.M.	Spike Pole SE Klauber Alley	352.25	bet Pac & Wilson	
B.M.	RR Spike Pole NE	333.53	Pacific & Castle	



Nov 11-1914
Ford
Graf

Cuts & Fills Wilson
North of Steiner

Sta	+	HI	−	Elev
BM				370.72
Check Top curb NE Pacific Anna	4.55	375.27	4.34	370.93
SE " " "			4.69	370.58
NL Anna 6+80				
7+50				
8				
+50				
9				
+50				
TP on 10+00 West				
10			0.92	374.35
+50	8.09	382.44		
11				
+50				
12				
S.L. Orange +50.5				
NL Orange 13+30.5				
14				
+50				

→ WEST ←			→ EAST ←		
Cut or Fill	West Curb Grade	W.P. Line	E. Prop Line	East Curb Grade	+ or −
Spike Pole NE ANNA & Wilson					
+0.5	370.	4.8 370.5	4.8 370.5	369.60	+0.9
+0.6	370.76	4.0 371.3	4.2 371.1	370.34	+0.8
+0.5	371.30	3.5 371.8	3.6 371.7	370.87	+0.9
+0.5	371.85	3.0 372.3	2.9 372.4	371.41	+1.0
+0.6	372.39	2.3 373.0	2.5 372.8	371.94	+0.9
+0.8	372.93	1.6 373.7	2.1 373.2	372.48	+0.7
+1.0	373.45	0.92 374.4	1.4 373.9	373.01	+0.9
+0.8	374.01	7.6 374.8	8.2 374.2	373.55	+0.7
+0.4	374.55	7.5 374.9	7.9 374.5	374.08	+0.4
+0.4	375.10	6.9 375.5	7.2 375.2	374.61	+0.6
+0.5	375.65	6.3 376.1	6.6 375.8	375.15	+0.7
+0.2	376.20	6.0 376.4	6.6 375.8	375.70	+0.1
+0.9	376.80	4.7 377.7	5.2 377.2	376.5	+0.7
+1.0	377.15	4.3 378.1	4.8 377.6	376.85	+0.8
+0.4	377.41	4.6 377.8	4.6 377.8	377.11	+0.7

Cuts & Fills Wilson North of Steiner

Sta	+	HI	−	Elev.	
15		382.44			
+50					
16					
+50					
17					
+50					
18					
+50					
19					
SL Colon +37.5					
BM			5.77	376.67	Should Be 376.66
BM				361.27	
North Line Steiner					
0+40	4.12	365.39			
1					
+50					
2					
+50					
TP on 3700 East					
3			0.97	364.42	

+or−	West Curve Grade	W.P.L	E.P.L	East Curve Grade	+or−
				Nov 11-1914 Ford Grnf	
+0.1	377.68	4.6 377.8	4.4 378.00	377.38	+0.6
00	377.94	4.5 377.9	4.4 378.0	377.64	+0.4
−0.7	378.21	4.9 377.5	4.4 378.0	377.91	+0.1
−0.4	378.47	4.3 378.1	4.4 378.0	378.17	−0.2
−1.0	378.74	4.7 377.7	4.6 377.8	378.44	−0.7
−1.2	379.00	4.6 377.8	4.5 377.9	378.70	−0.8
−1.4	379.27	4.5 377.9	4.5 377.9	378.97	−1.0
−1.3	379.53	4.2 378.2	4.2 378.2	379.23	−1.0
−0.5	379.79	3.1 379.3	3.4 379.0	379.49	−0.5
−0.1	380.00	2.5 379.9	2.7 379.7	379.70	00
RR Spike Pole NE orange & Wilson					
				Nov 12-1914 Ford Grnf	
Spike Pole NE Wilson & Steiner					
+0.4	364.30	4.7 360.7	5.4 360.0	360.10	−0.1
+0.1	361.23	4.1 361.3	4.3 361.1	361.01	+0.1
+0.2	362.00	3.2 362.2	3.4 362.0	361.77	+0.2
−0.2	362.78	2.8 362.6	3.3 362.1	362.53	T 04
00	363.55	1.9 363.5	2.9 362.5	363.29	−0.8
+0.4	364.33	0.7 364.7	0.97 364.4	364.05	+04

Cuts & Fills Wilson

Sta	+	HI	−	Elev	
3+50	10.62	375.04			
4					
+50					
5					
5+50					
6					
S.L. Anna					
6+40					
BM			4.38	370.66	Shoulder 370.72
	Cuts & Fills Wilson			South of Steiner	
BM				361.27	
0+40	0.98	362.25			
1					
+50					
2					
+50					
3					
+50					
4					
Pon 4+50 West +50			9.03	353.22	

+or−	West Curb Grade	W.P.L.	E.P.L.	East Curb Grade	+or−
		9.9	9.5		
00	365.10	365.1	365.5	364.81	+0.7
		8.7	8.8		
+0.4	365.88	366.3	366.2	365.57	+0.7
		7.8	7.8		
+0.6	366.65	367.2	367.2	366.33	+0.9
		6.8	7.2		
+0.8	367.43	368.2	367.8	367.09	+0.7
		OUT	6.0		
	368.20		369.0	367.85	+1.2
		5.1	5.7		
+0.4	368.98	369.3	369.3	368.61	+0.7
		4.9	5.1		
+0.5	369.60	370.1	369.9	369.20	+0.7
Spike Pole NE	Hinn + Wilson				
To Castle					
	Spike Pole NE		Steiner + Wilson		
		3.3	2.3		
−0.8	359.8	359.0	360.0	359.6	+0.4
		3.3	3.3		
−0.0	358.77	358.8	359.0	358.54	+0.5
		4.3	3.7		
−0.1	357.91	357.8	358.6	357.66	+0.9
		5.1	4.1		
+0.2	357.05	357.8	358.2	356.77	+1.4
		6.2	5.0		
−0.1	356.19	356.1	357.3	355.89	+1.4
		6.7	6.4		
+0.3	355.34	355.6	355.9	354.91	+0.9
		7.2	7.9		
+0.6	354.48	355.1	354.4	354.13	+0.3
		8.0	8.3		
+0.7	353.62	354.3	354.0	353.24	+0.8
		9.03	9.2		
+0.4	352.76	353.2	353.1	352.36	+0.7

Sta	+	H I	−	Elev.	
5	0.82	354.04			
+50					
6					
NL Klauber					
+40					
			1.86	352.18	Chain Belt St Klauber Cor Mils & Pacific 352.2558
S.L Klauber					
7+20					
7+50					
8					
+50					
9					
+50					
10					
+50					
T Pon II East					
11			11.62	342.42	
+50	1.84	344.26			
12					
+50					
13+20					
14+00			11.83	332.43	33461

+or−	West Curb Grade	W.P.L.	E.P.L.	East Curb Grade	+or−
		2.0	1.6		
+0.1	351.91	352.0	352.4	351.98	+0.2
		2.3	3.4		
+0.7	351.05	351.7	350.6	350.60	0.0
		4.0	5.0		
−0.2	350.19	350.0	349.0	349.71	−0.7
		4.9	6.8		
−0.4	349.5	349.1	347.2	349.0	−1.8
		Klauber			
		4.5	7.2		
+0.5	349.0	349.5	346.8	348.5	−1.7
		5.1	7.6		
+0.5	348.44	348.9	346.4	347.9	−1.5
		5.3	7.9		
+1.2	347.50	348.7	346.1	346.9	−0.8
		6.5	8.0		
+0.9	346.56	347.5	346.0	345.9	+0.1
		7.1	8.2		
+1.3	345.62	346.9	345.8	344.9	+0.9
		7.9	9.2		
+1.4	344.69	346.1	344.8	343.9	+0.9
		8.8	9.9		
+1.4	343.75	345.2	344.1	342.9	+1.2
		9.4	11.2		
+1.8	342.81	344.6	342.8	341.9	+0.9
		10.4	11.6		
+1.8	341.87	343.6	342.4	340.9	+1.5
		2.0	2.6	39.2	
+2.0	340.3	342.3	341.7	339.37	+2.3
		2.9	3.4		
+3.1	338.3	341.4	340.9	337.49	+3.4
		4.9	4.6		
+3.1	336.3	339.4	339.7	335.62	+4.1
		6.9	7.3		
+3.9	333.5	337.4	337.0	333.0	+4.0
		10.6	11.1		
+1.2	332.5	333.7	333.2	332.0	+1.2

Curb Stakes Wilson

Sta	+	H.I	−	Elev	
B.M.				370.72	
NW Anna Wilson	5.35	376.07	6.07	370.00	
NE "			6.47	369.60	
B.M.	Moving Pole Dec 4-1914			376.66	
SW orange Wilson	4.82	381.48	5.28	376.20	
SE "			5.78	375.70	+0.5
New B.M.			4.58	376.90	
N.W. orange Wilson	5.95	382.85	6.05	376.80	
NE "			6.35	376.50	
B.M.				380.68	
SW Cafon Wilson	4.62	385.31	5.31	380.00	
SE "			5.67	379.70	
NE orange Wilson			4.10		
NW "			4.10		
SW "		New H.I	5.60		
SE "		"	6.10		

Dec 4-1914
Ford
Hyatt
Graf

Spike Pole NE ANNA & WILSON

Spike Pole NE orange & Wilson Moving Pole

Galvanized Nail Pole SW Cor Alley Bet Pacific & Wilson
Dec 7, 1914
Ford
Hyatt
Beach

Phoned by Leckey S E EL Cafon & Wilson spike Pole

Dec 8-1914
Ford
Hyatt
Graf

Curve Stakes Anna & Wilson

Sta		+	HI	−	Elev	
BM					370.72	
NE	Anna Wilson	3.91	374.13	4.53	369.60	
NW	"			4.13 4.07	370.06	Should be 370.00
					370.72	
SE	"	3.55	374.27	5.07	369.20	
SW	"			4.67	369.60	

Curve Stakes Wilson Anna To Steiner

B.M.					361.27	
NW	Wilson Steiner	4.46	365.73	5.43	360.39	
NE	" "			5.63	360.10	
BM					370.72	
SE	anna Wilson	3.85	374.57	5.37	369.20	
SW	" "			4.97	369.60	

Dec 8-1914
Ford
Hyatt
Graf

Spike Pole NE Anna & Wilson

Completed 4:10 PM Dec. 8, 1914

Dec 10-1914
Ford - Hyatt - Graf

Spike Pole NE Steiner & Wilson

Spike pole NE Anna & Wilson

Check end Grade Wilson
Orange to EL Cajon —

Ford
Hyatt
Graf
Jan 13-1915

	W. Gutter	W. ¼	℄	E. ¼	E. Gutter
N.L. Orange					
0+00	14	4	00	7	13
0+50	11	7	00	8	12
1	12	8	00	8	12
+50	12	8	2"	8	14
2	12	8	0	8	12
+50	14	7	-1	9	12
3	11	8	-1"	7	12
+50	11	8	-1½	8	13
4	12	8	0	9	13
+50	13	8	0	10	13
5	12	8	0	9	13
+50	12	8	-1"	9	14
6+00	13	6	-1"	7	12
SL Cajon					
6+07	11	7	-1½	4	9

36' Roadway -

Distances shown here are below a line from top to top of curbs.

Curb Stakes Wilson

Ford
Hyatt
Grat
Jan 16 1915

Sta	+	HI	−	Elev		
B.M.				352.25		Nail Pole SL Klauber Alley Bet Wilson & Pac
Curb SL Klauber Wilson WL Alley bet Pac	2.13	354.38	3.38	351.00	SB 350.89	
NW Wilson Klauber			4.88	349.50		
NE " "			5.38	349.00		
B.M.				361.27		Spike Pole NE Steiner & Wilson
ON Curb NE Steiner Wilson	4.24	365.51	5.41	360.10		
SW " "			5.71	359.80		
SE " "			5.91	359.60		
West Curb Line South Track			5.60	359.91		
West Curb Line Top N. Track			5.65	359.86		
East Curb Line South Track			5.56	359.95		
" " North Track			5.58	359.93		

Sub Grade - Wilson
Orange to Cafon -

NL Orange
0+00
+50
1
2
3
4
5
6

Ford
Hyatt
Engr
Jan 16-1915

W ¼ Cor	W ¼	¼	E ¼	E ¼ Cor
11	7	1	7	
11	9	0	9	13
12	7	0	9	12
12	10	3	11	14
12	8	1	11	13
12	9	0	10	12
11	9	-1	8	12
12	8	0	8	13
13	9	0	10	13
13	9	2	11	12
12	8	2	10	13
13	9	2	9	13
13	7	0	9	13
11	8	-2	5	8

Jan 19-1915
Ford Hyatt Graf

Subgrade Wilson Orange to Anna

	W¼	℄	E¼
0+00		1"	
		1"	
		0	
		½"	
		½"	
		½"	
		- ½"	
		½"	
		½"	
		1½	
		½"	
	7"	½"	4"
6+00			
6+07	7"	0	3"

Sub Grade Change
E & W of Wilson

	North			South
140' E of EL Wilson	13"	8½	-1"	8" 13"
100 "	12½	8½	-½	7" 14"
50' "	13"	9"	0	10" 14"
EL "	12½	10"	-½	6" 12"
Return to Return	12½		-2"	4" 7"
EL Wilson		3"	-2"	6"
WL Wilson	12½	9¾	0	6½ 13½
50' W of "	13	8	1	8¾ 12½
	13½	6½	-1	7 12½
				Jan 21-1915
		9	½	9 13
		9	½	9
		10	½	11
EL Wilson		9	0	9
WL Wilson		5	0	6
		8	0	8
		7	0	9
EL N Alley		7	-1½	8

Jan 19-1915
Ford
Hyatt
Graf

Orange E & W of Wilson

140' East

100' East

50' East

E L South Wilson

W L " "

50' West

100'

E L Alley

L

Jan 26
Ford
Grat

North 6 Out	½	&	½	South 6 Out
8		1½		7
7½		½"		6½
9		½		8"
8½		-1"		Granite
	High	0		
9"		½	100 Feet ½" High	7"
6"	½"	0	½	7½
7"	2"	-½	0	6"
		High		

Final Check-
Pacific

El Cajon

gutters
uneven

Orange-
No-rolling-

clean
out gutters

Anna

Good

Steiner

Steiner

-0.15

-0.10

Curb. Stakes Wilson
On Klauber E & W Wilson

B.M.		31		352.25	
	116 ?	353.41 353.31	4.31	349.0	
				Rain-	
B.M.				352.25	
SE Klauber Wilson	0.85	353.10	4.60	348.50	
SW "			4.10	349.00	
	Culverts Across Steiner at Wilson				
B.M.				361.27	
SW Wilson Steiner	3.61	364.88	5.21 5.08	359.67 359.80	Curb Settled

Ford Hyatt Graf Feb 24 1915

R R Spike Pole S L Klauber bet Pac & Wilson

Ford Hyatt Graf Feb 25-1915

Spike Pole NE Steiner & Wilson

Grad
Hyatt
2/27/

Culvert across Steiner at Wilson

Sta.	+	H.I.	−	Elev.		
B.M.	2.98	364.25		361.27		B.M. Spike Pole 50' E of N.E. Wilson & Steiner
1' E of W. Curb & S.L. Steiner			5.45	358.8	1' below curb grade.	
.75' W of E Curb +S.L. Steiner			5.67	358.58	Elev. Curb 4.67. 359.58	1' below Curb.
1' E of W. Curb N.L. Steiner			4.72	359.53	Elev. Curb 3.89 360.36	0.83' below Curb
.75' W of E Curb N.L. Steiner			4.98	359.27	Elev. Curb 4.15 360.10	0.83' below Curb
	3.57	364.84	3.00	361.27		50' E of N.E. Wilson & Steiner Spike in pole
Wilson N.W. Steiner			4.54	360.30		
S.L. Steiner Int.	4.00	362.8		358.8		
S.L. Steiner W.L. Wilson Int. Culverts			3.92	358.88		
N.L. Steiner W.L. Wilson Int. Culverts					Stake marked C.0.41 2' W of ℄	
W.L. Wilson N. of N. Rail					Stake mark C.0.92 2' W of ℄	
E.L. Wilson N. of N. Rail	Stake marked C.0.97 2' W. of ℄ Culvert.					

Stakes For Tracks Wilson & Steiner

Sta	+	HI	−	Elev	
BM				361.27	
Top curb Wilson NE Steiner	3.27	364.54	4.43	360.11	
NW "			4.20	360.34	
℄ Steiner E. Curb line Wilson			4.04	360.50	
℄ Steiner West Curb line Wilson			3.84	360.70	
	Curb Stakes Wilson				
BM				325.83	This Book Page 10
Curb SW Pacific Castle	12.09	337.92	12.72	325.20	
NW Wilson Castle			4.42	333.50	
New B.M.			0.27	337.65	
NE Wilson Castle	1.14	338.79	5.79	333.00	
BM W.L. Wilson	4.02			337.65	
200' Not NL Castle	7.02	344.67	3.43	341.24	
EL Wilson " " "			4.38	340.29	
Peg Wilson				337.65	
NW Castle	0.98	338.63	✓ 5.13	333.50	
NE "			✓ 5.63	333.00	

Mar 11-1915
Ford
Hyatt
Graf

Spike Pole NE Steiner & Wilson

Mar 19-1915
Ford Hyatt
Graf

Nail Pole SW Pacific & Castle

Peg 10' NW of NW Castle & Wilson

May 29-1915
Ford-Hyatt Graf

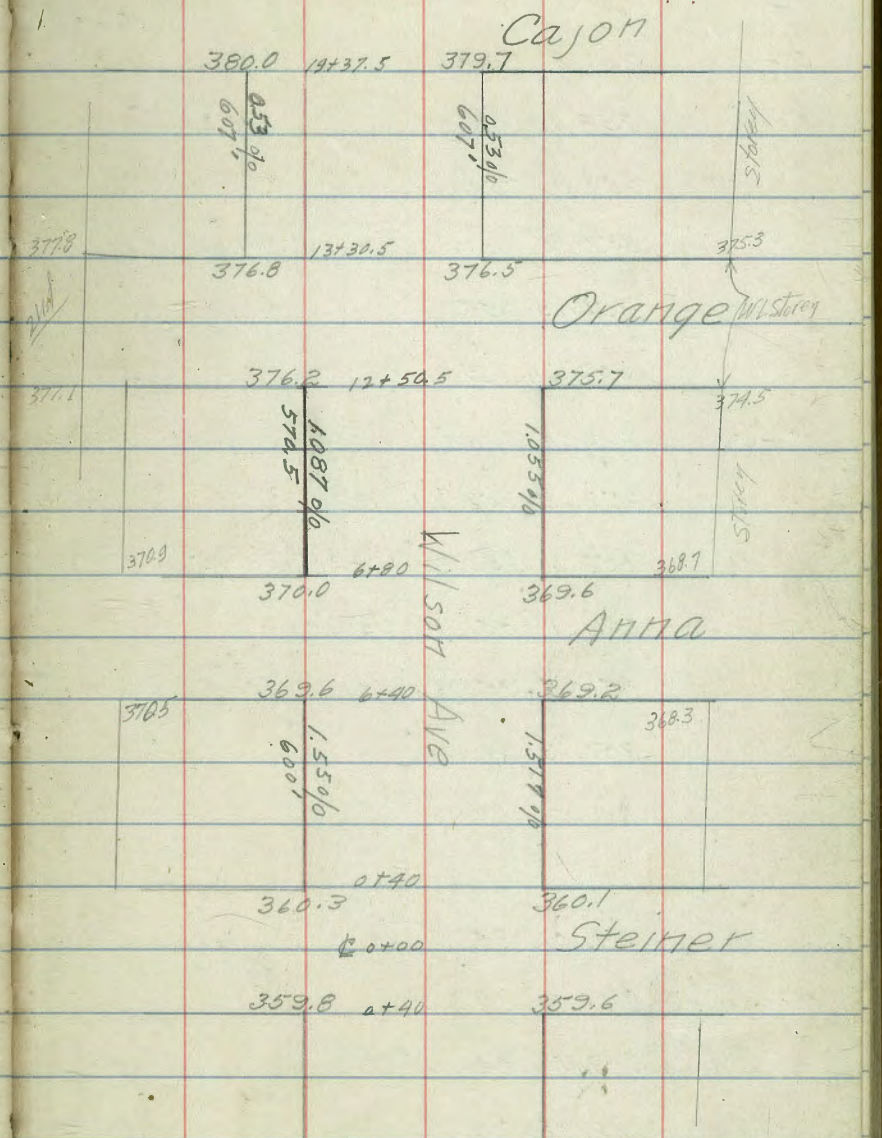
Cont'd From Page 37-

Mar 29 1915
Ford Hyatt Graf

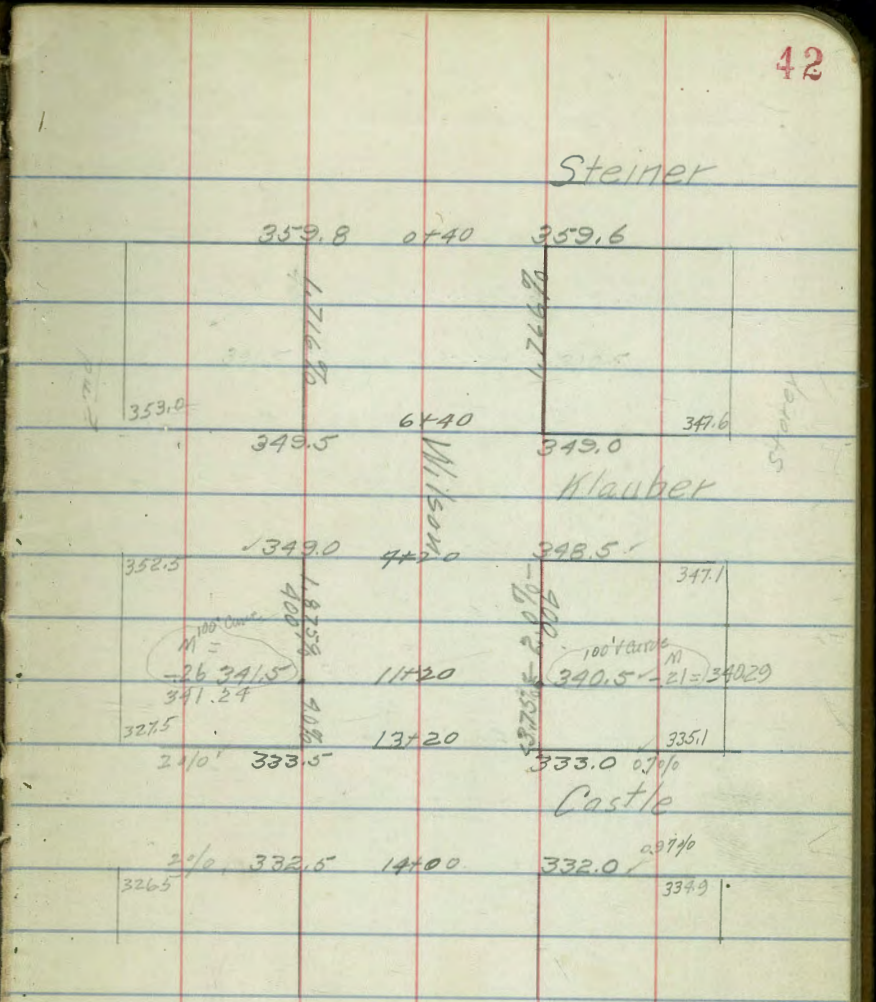
CUV6 Stakes Castle
E&W of ~~Pacific~~ Wilson

Sta	+	H I	−	Elev
				337.65
SW Castle Wilson	0.79	338.44	5.94	332.50
SE "			6.44	332.00

	West	East		West	East
9+50	372.93	372.48	19+37.5	380.00	379.70
9	372.39	371.94	19	379.79	379.49
8+50	371.85	371.41	18+50	379.53	379.23
8	371.30	370.87	18	379.27	378.97
7+50	370.76	370.34	17+50	379.00	378.70
6+80	370.00	369.6	17	378.74	378.44
Anna			16+50	378.47	378.17
6+40	369.60	369.20	16	378.21	377.91
6	368.98	368.61	15+50	377.94	377.64
5+50	368.20	367.85	15	377.68	377.38
5	367.43	367.09	14+50	377.41	377.11
4+50	366.65	366.33	14	377.15	376.85
4	365.88	365.57	13+30.5	376.80	376.5
3+50	365.10	364.81	Orange		
3	364.33	364.05	12+50.5	376.20	375.70
2+50	363.55	363.29	12	375.65	375.15
2	362.78	362.53	11+50	375.10	374.61
1+50	362.00	361.77	11	374.55	374.08
1	361.23	361.01	10+50	379.01	373.55
0+40	360.30	360.10	10	373.45	373.01



S.C. Steiner	West	East		West	East
0+40	359.8	359.6	10	343.75	342.9
1	358.77	358.54	+50	342.81	341.9
+50	357.91	357.66	11	341.87	340.9
2	357.05	356.77	Break +20	341.5	340.5
+50	356.19	355.89	+50	340.3	339.37
3	355.34	355.01	12	338.3	337.49
+50	354.48	354.13	+50	336.3	336.62
4	353.62	353.24	13	334.3	333.74
+50	352.76	352.36	+20	333.5	333.0
5	351.91	351.48	Castle		
+50	351.05	350.60	14	332.5	332.0
6	350.19	349.71			
+40	349.5	349.0			
Klauber					
+20	349.0	348.5			
7+50	348.44	347.9			
8	347.50	346.9			
+50	346.56	345.9			
9	345.62	344.9			
+50	344.69	343.9			



X Sections Castle & Alley East of Swift To E. L. Wabash

Sta.	+	H I	−	Elev.	
B.M.				325.83	This Book Page 10
T.P. Rock	0.72	326.55	12.39	314.16	
℄ Alley East of Swift 0+00	1.70	315.86			
0+35 T Pan Rock					
0+75			12.90	302.96	
0+75	1.80	304.76			
1+25					
E. L. Swift T Rock 1+50			13.08	291.68	
1+50	1.64	293.32	12.48	280.84	
1+70 South 1+79 ℄ Sta 1+88 North	1.06	281.90			
W. L. Swift 2+30					
2+46 South 2+57.5 Centerline 2+68.9 North	East Line	Wabash + Castle			
2+75					
2+90					
2+98					
2+87					
2+60					
T.P.			9.48	272.42	

April 16-1935

Ford Hyatt Stat

North 40' N.P.L. 20' N¼ ℄ 20' S¼ South 40' South P.L.

Nail P.I. SW Rac & Castle

3.1 26' 6.7 7.2 7.3 7.7
6.5
312.8 309.4 309.2 308.7 306.6 308.1
6.1 6.8 8.3 9.1 9.7
309.8 309.1 307.6 306.8 306.2
10.1 11.4 12.0 12.9
305.8 304.5 303.9 303.9
4.8
300.0
6.0 7.4 8.5 11.1 12.6
298.8 297.4 296.1 293.7 292.2
9.4 37' 36' 98 12.7
295.4 293.0 293.1
4.1 9.0 11.8 16.1 60' 80'
289.2 284.0 281.5 277.2 23.8 26.1 269.5 267.2
5.3 7.3 8.3 9.5 25' 31' 13.1 9.2
9.7 12.3 14.3
276.4 274.6 273.6 272.4 272.2 269.6 268.8 267.6
8.3 9.2 6' 11.0 11.6 25' 29' 9.5 80'
3.6 10.3 12.0 9.3 11.6
273.6 272.7 272.3 271.1 270.9 270.3 269.9 272.6 272.4 270.3
70 8.3 38' 9.6 11.0 11' 9.2 9.5 70' 10.9
69 94 11.2
275.0 273.6 272.5 272.3 270.9 270.7 273.7 272.1 271.0
98 9.2
272.1
10.4 272.7
271.5
7.2
274.7
9.4
274.5
11.4
270.5

1X2 Hub SL Castle + W.L. Swift

X Sections Klauber from Alley East of Swift To E.L. Wabash

Sta	+	H I	−	Elev
B.M.				352.25
℄ Alley East Swift				
0+00	3.28	355.53		
0+18				
0+75				
E.L. Swift				
1+50				
80' ↑				
			12.19	343.34
WL Swift ↓ TP Rock				
0+00	0.33	343.67	12.93	330.74
0+75	1.15	331.89		
1+50				
2+17.14 South				
2+29.15	East Line Wabash			
2+40.9 North				
			13.00	318.89

Ford
Hyatt
Graf
9-16-15

	North 40' N.P.L.	20' N 1/4	℄	South 20' S 1/4	40' S.P.L.
Nail Pole SL Klauber bet Pac & Wilson					
	4.4	7.1	9.1	10.0 +2.9' 8.3	7.1
	351.1	348.4	346.4	345.5 347.2	348.4
	4.9	5.4 +15' 5.4	7.4	8.1 +28 7.1	6.7
	350.6	350.1 350.1	348.1	347.4 348.4	348.8
	6.7	7.3	7.9	8.5	9.7
	348.8	348.2	347.6	347.0	345.8
	10.6	11.2	12.1	13.2	14.1
	344.9	344.3	343.4	342.3	341.4
Swift					
	5.7	6.8	8.2	8.6 +23' 9.0 +32' 10.4	10.8
	338.0	336.9	335.5	335.1 334.7 333.3	332.9
	+60' 2.3 +47' 3.5 1.9	2.1	2.6 +10' 7.3 +15' 5.3	4.9 +28' 5.3 +38' 9.8	10.0 +65' 11.4
	329.6 328.4 330.0	329.8	329.3 324.6 326.6	327.0 326.6 322.7	321.9 320.5
	9.0	10.5	12.0	13.5	14.4
	322.9	321.4	319.9	318.4	317.5
	12.0	12.8	13.9	14.0	14.7
	319.9	319.1	318.0	317.9	317.2

Nail Pole SL Klauber Alley West Swift

X Sections Anna _ Alley E. of Swift to Alley W. Swift

Ford Hyatt Graf 4-16-1915

Sta	+	HI	−	Elev	
B.M.				359.82	63-27
T.P.	9.34	369.16	0.93	368.23	
0+00 ℄ Alley South Alley bet Swift & Pacific 0-24 ℄ Alley North	6.36	374.59			
0+75					
E.L. Swift 1+50					
80'					
W.L. Swift 0+00					
0+75					
℄ Alley West Swift 1+50			2.27	372.32	

X Sections Orange E & W Swift

Sta	+	HI	−	Elev	
0+00 ℄ Alley North Alley East Swift 0+17 ℄ Alley South	8.28	380.60			
E.L. Swift North 1+32.5					
W.L. Swift North 1+92.5					
W.L. Swift South 2+70					
3+25 ℄ Alley North					
3+25 North to 4+20 ℄ Alley South	Section on ℄ Alleys				
			5.46	375.14	

North — South

	20' N.P.L	10' N 1/4	℄	10' S 1/4	20' S.P.L
3/4" Pipe. NW of N W Swift & Steiner					
Nail Brace Pole SW Anna & Swift					
	4.6	5.0	4.5	4.9	5.0
	370.0	369.6	370.1	369.7	369.6
	4.7	4.7	4.6	4.4	4.8
	369.9	369.9	370.0	370.2	369.8
	4.6	5.0	5.0	5.0	5.1
	370.0	369.6	369.6	369.6	369.5
Swift Ave					
	5.9	5.8	5.9	5.4	6.0
	368.7	368.8	368.7	369.2	368.6
	6.4	6.5	6.5	6.4	6.8
	368.2	368.1	368.1	368.2	367.8
	7.1	7.2	7.3	6.8	7.3
	367.5	367.4	367.3	367.8	367.3
	+40' N.P.L	+20' N 1/4	℄	+20' S 1/4	+40' S.P.L
	3.0	4.2	3.6	4.6	4.2
	377.6	376.4	377.0	376.0	376.4
	4.2	4.5	4.4	4.4	5.2
	376.4	376.1	376.2	376.2	375.4
	4.8	4.9	4.9	5.5	6.0
	375.8	375.7	375.7	375.1	374.6
	5.0	5.3	5.2	5.8	5.3
	375.6	375.3	375.4	374.8	375.3
	4.9	5.4	5.3	5.8	5.4
	375.7	375.2	375.3	375.8	375.2
	4.9	4.1	5.5	6.0	6.3
	375.7	376.5	375.1	374.6	374.3

Hyatt Graf 6/8/15

± Swift & x-Sts N of Steiner

Sta.	+	H.I.	-	Elev.
B.M. N.L. Steiner				359.82
0+40	11.33	371.15		
1				
+50				
2				
+50				
3				
+50				
4				
+50				
5				
+50				
6 S.L. Anna				
+40				
B.M.			0.98	370.17

Anna E & W of Swift

	4.13	374.30		
Top of curb				

West East

+or-	Grade	W.P.L.	E.P.L.	Grade	+or-
3/4" iron pipe		N.W. of N.W. Swift + Steiner			
		11.7	10.3		
+0.8	358.6	359.4	360.8	359.2	+1.6
		10.2	8.8		
+1.3	359.6	360.9	362.3	360.19	+2.1
		9.4	8.2		
+1.3	360.43	361.7	362.9	361.01	+1.9
		8.8	8.0		
+1.0	361.27	362.3	363.1	361.84	±1.3
		8.2	8.0		
+0.8	362.10	362.9	363.1	362.66	+0.4
		7.9	7.1		
+0.3	362.98	363.2	364.0	363.49	+0.5
		7.1	5.9		
+0.2	363.77	364.0	365.2	364.31	+0.9
		6.4	5.1		
+0.1	364.60	364.7	366.0	365.14	+0.9
		5.5	4.2		
+0.2	365.43	365.6	366.9	365.96	+0.9
		4.5	3.1		
+0.3	366.26	366.6	368.0	366.79	+1.2
		3.9	3.0		
+0.1	367.10	367.2	368.1	367.61	+0.5
		3.0	2.5		
+0.1	367.93	368.1	368.6	368.44	+0.2
		2.6	1.7		
-0.1	368.60	368.5	369.4	369.1	+0.3

3/4" iron pipe 21.3' N.E. of N.E. Swift + Anna

		N.P.L.	S.P.L.		
		4.16	4.61		
		370.14	369.39		

Anna Cont'd.

Sta	+	Hi	-	Elev
1+50		374.30		
2				
+50				
E.L. Swift				
3				
W.L. Swift				
0+00				
+50				
1				
℄ Allen West				
+50				
		Swift Anna - Orange		
B.M.				370.17
NL Anna				
6+80	8.21	378.38		
7+50				
8				
+50				
9				
+50				
10				
+50				

+or-	Grade	N.P.L.	S.P.L.	Grade	+or-
		4.3			
+0.1	369.23	374.0		369.55	
		4.1	4.0		
+0.4	369.79	370.2	370.3	369.40	+0.9
		4.0	4.4		
+0.7	369.64	370.3	369.9	369.25	+0.6
		4.3	4.8		
+0.5	369.5	370.0	369.5	369.1	+0.4
		5.6	5.7		
-0.3	369.0	368.7	368.6	368.6	0.0
		5.6	6.1		
+0.5	368.2	368.7	368.2	367.8	+0.4
		6.4	6.7		
+0.5	367.4	367.9	367.6	367.0	+0.6
		6.8	7.1		
+0.9	366.6	367.5	367.2	366.2	+1.0
		W.P.L.	E.P.L.		
3/4" iron pipe	21.3	NE of NE Swift & Anna			
		9.7	8.4		
-0.3	369.0	368.7	370.0	369.5	+0.5
		8.3	7.3		
+0.4	369.72	370.1	371.7	370.2	+0.9
		8.1	7.2		
+0.2	370.24	370.3	371.2	370.7	+0.5
		7.2	6.6		
+0.4	370.76	371.2	371.8	371.2	+0.6
		6.3	6.2		
+0.8	371.27	372.1	372.2	371.7	+0.5
		6.4	5.8		
+0.2	371.79	372.0	372.6	372.2	+0.4
		5.7	5.4		
+0.4	372.31	372.7	373.0	372.7	+0.3
		5.5	5.0		
+0.1	372.83	372.9	373.4	373.2	+0.2

Swift (Cont'd).

Sta.	+	H.I.	−	Elev.	+ or −	Grade	W.P.L.	E.P.L.	Grade	+ or −
11		378.38			+0.1	373.35	4.9 373.5	4.3 374.1	373.7	+0.4
+50					−0.2	373.86 1.05%	4.7 373.7	3.9 374.5	1.0% 374.2	+0.3
12					+0.3	374.38	3.7 374.7	3.8 374.6	374.7	−0.1
S.L. Orange +49.35					−0.1	374.9	3.6 374.8	3.3 375.1	375.2	−0.1
B.M.			3.43	374.95	3/4" iron pipe 21.3' E of S.E. Swift + Orange					
	Orange E & W of Swift.						N.P.L.	S.P.L.		
Top of curb	5.00	379.95					2.71 377.24	3.29 376.66		
0+50					+0.1	76.69	3.1 376.8	3.6 376.3	376.15	+0.1
E.L. Swift					+0.2	76.33	3.4 376.5	4.0 375.9	375.81	+0.1
1+32.5					+0.2	76.10	3.6 376.3			
1+50 E.L. Swift								4.6 375.3	375.47	−0.2
1+90								4.9 375.0	375.2	−0.2
W.L. Swift										
+92.5					0.0	75.8	4.1 375.8			
W.L. Swift	2+50 m N.									
2+70					+0.2	75.52	4.2 375.7	5.1 374.8	374.9	−0.1
3 ℄ alley					+1.2	75.28	3.4 376.5	4.7 375.2	374.72	+0.5
+25					+0.5	75.15	4.2 375.7			
+50								5.2 374.7	374.42	+0.3
4+20								5.6 374.3	374.0	+0.3

Hyatt Graf 6/8/15

Swift Orange Cajon

Sta.	+	H.I.	−	Elev.	+or−	Grade	W.P.L.	E.P.L.	Grade	+or−
B.M.				374.95	3/4" iron pipe 2 L.H. S.E. of S.E. Swift + Orange					
N.L. Orange 13+29.85	7.83	382.78			00	375.8	7.0 375.8	6.4 376.4	376.1	+0.3
14					+ 1.3	376.18	5.4 377.4	5.8 377.0	376.48	+0.5
+50					+ 0.4	376.45	6.0 376.8	5.5 377.3	376.75	+0.6
15					+ 0.4	376.72	5.7 377.1	5.2 377.6	377.02	+0.6
+50					+ 0.7	376.99	5.1 377.7	4.9 377.9	377.29	+0.6
16					+ 0.5	377.26	5.0 377.8	4.8 378.0	377.56	+0.4
+50					+ 0.3	377.53	5.0 377.8	4.8 378.0	377.83	+0.2
17					− 0.4	377.80	5.4 377.4	4.7 378.1	378.10	+0.0
+50					− 0.2	378.07	4.9 377.9	4.4 378.4	378.37	00
18					− 0.4	378.34	4.9 377.9	3.7 379.1	378.64	+0.5
+50					− 0.7	378.61	4.9 377.9	4.3 378.6	378.91	−0.3
19					−0.8	378.88	4.7 378.1	3.4 379.4	379.18	+0.2
+ 36.25 S.L. Cajon					−0.5	379.1	4.2 378.6	3.5 379.3	379.4	−0.1
B.M.			3.47	379.31	3/4" iron pipe S.E. of S.E. Swift + Cajon					
	5.11	384.42								
B.M.			4.30	SB 380.13 (380.12)	Spike pole S.E. Swift + Cajon					

Marked 6-8-15 by Hyatt + Graf

0.5 ft/o

0.5 ft/o

± Levels Swift + x-sts. Steiner South

Sta.	+	H.I.	-	Elev.
B.M.				359.82
S.L. Steiner				
0+40	1.71	361.53		
1				
+50				
2				
+50				
3				
+50				
TP. on 4+50 East				
4			9.34	352.19
+50	0.95	353.14		
5				
+50				
6				
N.L. Klauber				
+40				
B.M.			11.56	341.58

± Klauber E+W. Swift

Sta.	+	H.I.	-	Elev.
Top of Curb Det. Swift + Pacific E.L. Aller	9.49	351.07		
2				
+50				

Graf Hyatt 6/15/15

+or-	Grade	W.P.L.	E.P.L.	Grade	+or-
3/4" iron pipe N.W. Swift + Steiner					
		3.2			
+0.2	358.1	358.3		358.7	
		4.2	3.7		
+0.3	357.02	357.3	357.8	357.62	+0.2
		4.9	4.6		
+0.5	356.12	356.6	356.9	356.72	+0.2
		5.4	4.8		
+0.9	355.22	356.1	356.7	355.82	+0.9
		5.5	5.0		
+1.7	354.32	356.0	356.5	354.92	+1.6
		6.2	5.5		
+1.9	353.42	355.3	356.0	354.02	+2.0
		7.5	6.1		
+1.5	352.52	354.0	355.4	353.12	+2.3
		9.7	7.2		
+0.2	351.60	351.8	354.3	352.20	+2.1
		4.3	0.9		
-1.0	349.84	348.8	352.2	350.46	+1.8
		7.5	2.9		
-1.2	346.82	345.6	350.2	347.54	+2.7
		10.6	3.9		
-0.9	343.42	342.5	349.2	344.24	+5.0
		12.4	6.5		
+0.7	340.02	340.7	346.6	340.94	+5.7
			8.2		
	337.30		344.9	338.3	+6.6
			6x6		
3/4" iron pipe 190' S.E. of S.E. Klauber + Swift					
		N.P.L.	S.P.L.		
		5.14	5.85		
		345.93	345.22		
		1.3	4.2		
+6.8	343.0	349.8	346.9	342.16	+4.7
		3.5	6.4		
+7.0	340.65	347.6	344.7	339.73	+5.0

± Klaober (cont'd)

Sta.	+	H.I.	−	Elev.
E.C. Swift				
3+00		351.07		
T. Pen Rock			12.45	338.62
W.L. Swift				
0+00	0.41	339.03		
+50				
T. Pen Rock			12.72	326.31
0+50	2.62	328.93		
+50				
E.L. Wabash				
+17.14				
E.L. Wabash				
+40.9				
				S/B. 318.89 from Pg 44
B.M.			10.02	318.91
	I. Swift			
B.M.				341.58
S.L. Klaober				
7+20	0.68	342.26		
+50				

+or−	Grade	W.P.L.	S.P.L.	Grade	+or−
		6.1	9.8		
+6.7	338.3	345.0	341.3	337.3	+4.0
		0.9	5.9		
+0.8	337.3	338.1	333.1	336.3	−3.2
		6.5			
−1.2	333.67	332.5			
		12.5			
−3.5	330.04	326.5			
			3.5		
			325.4	332.32	−6.9
			9.0		
			319.9	328.33	−8.4
		5.9	11.5		
−3.4	326.41	323.0	317.4	324.35	−7.0
		7.6	11.4		
−1.5	322.78	321.3	317.5	320.36	−2.9
			11.8		
			317.1	319.0	−1.9
		8.9			
+0.2	319.8	320.0			

Spike pole S.L. Klaober. Aver bet Swift + Wabash.

		W.P.L.	E.P.L.		
3/4" iron pipe S.E.		Klaober + Swift			
		9.4	1.0		
−3.4	336.3	332.9	341.3	337.3	+4.0
		11.7	2.6		
−3.1	333.69	330.6	339.7	334.69	+5.0

± Swift (Contd)

Grades corrected & refigured given to Beverstock Nov. 23

Sta.	+	H.I.	−	Elev.	+or−	Grade	W.P.L.	E.P.L.	Grade	+or−
8		342.26						6.0 336.3	330.34	+6.0
+50								9.1 333.2	326.00	+7.2
T.P. on Rock			12.44	329.82						
8	0.03	329.85			−4.3	329.34	4.9 325.0			
+50					−4.3	325.00	9.2 320.7			
9					−2.4	320.66	11.6 318.3	1.1 328.8	321.66	+7.1
+50								5.6 324.3	317.32	+7.0
10	8							12.0 317.9	312.98	+4.9
T.P. on Rock			12.50	317.35						
9+50	0.36	317.71			−2.3	316.32	3.7 314.0			
10					−2.7	311.98	8.4 309.3			
+50								3.2 314.5	308.64	+5.9
11								8.2 309.5	304.30	+5.2
+50								11.5 306.2	299.96	+6.2
T.P. on Rock			12.81	304.90						
	0.47	305.37								
10+50					−3.5	307.64	1.3 304.1			
11					−3.8	303.30	5.9 299.5			
+50					−6.1	298.96	12.5 292.9			

Grades corrected & refigured given to Beverstock Nov. 23, '15

Sta.	+	H.I.	-	Elev.	+or-	Grade	W.P.L.	E.P.L.	Grade	+or-
12		305.37						2.0 303.4	295.62	+7.8
+50								5.7 299.7	291.28	+8.4
N.L. Castle T.P. on E. 13+20			10.14	295.23		284.2		10.1 295.3	285.2	+10.1 Nov 20-15 Bev.
T.P. on 11+50 W			12.55	292.82						
12	0.44	293.26			-8.8	294.62	7.5 285.8			
T.P. on Rock			12.59	280.67						
12+50	0.50	281.17			-12.9	290.28	3.8 277.4			
N.L. ~~Hauber~~ Castle 13+20					-10.6	284.2	7.6 273.6			
S.L. Castle 14+00					-9.8	282.2	8.8 272.4	4.1 277.1	284.2	-7.1
B.M.			8.78	(272.42 S.B.) 272.39	S.W. Swift & Castle 1"x2" stake					
	± Castle E & W of Swift						N.P.L.	S.P.L.		
T.P.				295.23	T.P.	13+20	E.L. Swift			
E.L. Swift 1+50	12.90	308.13			+10.0	285.2	12.9 295.2			
					+9.7	292.86	5.5 302.6	10.6 297.5	291.86	+5.6
T.P. on S. 0+50			3.00	305.13				3.0 305.1	299.53	+5.6
0+50	8.05	313.18			+7.9	300.53	4.8 308.4			
Top of curb 0+00 ℄ L Alley E. & Swift							3.43 309.75	4.54 308.64		

± Castle E & W. Swift (Cont'd)

Sta.	+	H.I.	−	Elev.
B.M.				272.42
W.L. Swift 2+30	8.78	281.20		
E.L. Wabash +46				
E.L. Wabash +68.8				
	Curb stakes swift			?
BM				374.95
NE Swift + orange	5.83	380.78	✓4.68	376.10
NW " "			✓4.98	375.80
BM				379.31
SE swift EL Cajon	5.15	384.46	✓5.06	379.40
SW " "			✓5.36	379.10
BM.				374.95
SE orange Swift	5.18	380.13	4.93	375.20
" "	5.15	380.10	4.90	375.20
SW " "			5.20	374.90
SL orange 138.15' W of WL Swift			6.07	374.03
NW orange swift	5.55	380.50	4.70	375.80
NE " "			4.40	376.10
NL orange 123' W of WL Swift			✓5.30	375.20

Graf Hyatt 6/15/15

+or−	Grade	N.P.L.	S.P.L.	Grade	+or−
1x2 stake S.W. Castle & Swift					
−10.6	284.2	7.6 273.6	8.8 272.4	282.2	−9.8
			9.0 272.2	280.2	−8.0
−7.4	281.2	7.4 273.8			
					Aug 12-1915 Ford Hyatt Graf
Pipe SE SE Swift & Orange					
Pipe 18.5' SE of SE Swift & El Cajon					
					Aug-19-15 Hyatt, Graf
Pipe SE Swift & Orange					

Aug 19-15
48- Hyatt
Grat

55

Sta	+	H.I	−	Elev
BM Swift NE Anna	400	374.17	4.67	369.50
NW "			5.17	369.00
SE "			5.07	369.10

Pipe NE Swift + Anna

Re-X Sections Swift + Ave
Orange to Anna

5PM to 6PM
Aug 20-1915
Ford-Leekey-Leekey

56

Sta	+	HI	−	Elev		Grade	W.P.L ± notes	W	℄	E	E	EPL ± notes	Grade
BM				370.17			Pipe NE Swift + Anna						
NL Anna 6+80	6.49	376.66				69.0	68.7	+10 6.8 69.9	7.0 69.7	+18 6.9 69.8		70.0	69.5
7+50						69.72	70.1 +20 6.3 70.4		5.8 70.9	10 5.0 71.7	18 6.3 70.4	71.1	70.2
7+70						69.90±	70.2± +18 5.9 70.8		6.1 70.6	12 5.4 71.3	18 5.4 71.3	71.1±	70.4
8						70.24	70.3 +18 5.9 70.8		3.4 71.3	10 5.3 71.4	19 5.3 71.4	71.2	70.7
+50						70.76	71.2 19 4.9 71.8	10 4.8 71.9	5.1 71.6	10 4.8 71.9	20 4.8 71.9	71.8	71.2
9						71.27	72.1 18 4.5 72.2		4.5 72.2	10 4.2 72.5	20 3.2 73.5	72.2	71.7
+50						71.79	72.0 18 4.5 72.2		3.8 72.9	10 3.4 73.3	20 3.9 72.8	72.6	72.2
10						72.31	72.7 18 4.0 72.7		3.8 72.9		19 3.6 73.1	73.0	72.7
+50						72.83	72.9 18 3.4 73.3		3.5 73.2		20 3.6 73.1	73.4	73.2
T.P.			3.28	373.38									
11+00	6.30	379.68				73.35	73.5 18 6.4 73.3	10 6.3 73.4	4.8 74.9	10 4.9 74.8	20 5.6 74.1	74.1	73.7
11+25						73.6	73.6 17 6.0 73.7		5.7 74.0		20 5.5 74.2	74.3	73.95
+50						73.86	73.7 18 5.9 73.8	10 5.6 74.1	4.0 75.0	10 4.1 75.6	19 5.3 74.4	74.5	74.2
+70						74.06	74.1 18 5.8 73.9		5.5 74.2		20 5.4 74.3	74.5	74.4
12						74.38	74.7 17 5.0 74.7	10 4.3 75.4	5.0 74.7		18 5.0 74.7	74.6	74.7
SL Orange +49.35						74.90	74.8	12 4.7 75.0	4.6 75.1	15 4.6 75.1		75.1	75.2
BM			4.70	(374.98)	SB 374.95			Pipe SE Orange + Swift					

Re X Sections Swift
Steiner to Anna

Sta	+	HI	−	Elev
BM				359.82
NL Steiner				
0+40	9.73	369.55		
1				
+50				
2				
3				
4				
5				
6				
SL Anna				
+40				
			−0.60	370.15

12
19

Aug 22
4d-Leckeys

Grades	from ± Notes Elev Pipline	W	℄	E	Pipline from ± Notes	Grades
		Pipe NW swift & Steiner				
		2.6 / 9.3	8.6	2.6 / 8.2		
58.6	59.4	360.2	360.9	361.3	60.8	59.2
		2.6 / 8.0	7.6	2.6 / 7.4		
59.6	60.9	361.5	361.9	362.1	62.3	60.19
		2.6 / 7.4	6.7	2.6 / 6.8		
60.43	61.7	362.1	362.8	362.7	62.9	61.01
		2.6 / 6.7	6.8	2.6 / 6.4		
61.27	62.3	362.8	362.7	363.1	63.1	61.84
		2.6 / 6.4	6.4	2.6 / 6.1		
62.10	62.9	363.1	363.1	363.4	63.1	62.66
		2.6 / 6.3	5.5	2.6 / 5.4		
62.93	63.2	363.2	364.0	364.1	64.0	63.49
		2.6 / 5.5	5.4	2.6 / 4.7		
63.77	64.0	364.1	364.2	364.9	65.2	64.31
		2.6 / 4.6	4.0	2.6 / 3.9		
64.60	64.7	365.0	365.6	365.7	66.0	65.14
		2.6 / 3.7	3.0	2.6 / 2.8		
65.43	65.6	365.9	366.6	366.7	66.9	65.96
		2.6 / 2.6	2.8	2.6 / 2.0		
66.26	66.6	367.0	366.8	367.6	68.0	66.79
		2.6 / 1.8	1.5	2.6 / 1.2		
67.10	67.2	367.8	368.1	368.4	68.1	67.61
		2.6 / 1.6	0.7	2.6 / 0.3		
67.93	68.1	368.0	368.9	369.3	68.6	68.44
		2.6 / 0.7	0.0	2.6 / 0.1		
68.6	68.5	368.9	369.6	369.5	69.4	69.10

Pipe NW Anna & Swift

Curb Stakes Anna E & W of Swift

Sept 16-1915
4d Hyatt Graff

58

Sta	+	HI	−	Elev
BM				370.17
N.E. Anna Swift	3.14	373.31	✓ 3.81	369.50
N.W. " "			✓ 4.31	369.00
N.L. ANNA 138.15 W of WL Swift			✓ 6.52	366.79
SW "			✓ 4.71	368.60
SE "			4.21	369.10
NW " " Curb stake				369.00
SL ANNA 138' W of WL Swift	2.96	371.96	5.57	366.39
BM				370.17
SE Swift Anna	4.42	374.59	5.49	369.10
SW " "			5.99	368.60

4d-Hyatt Graf. Oct 4-1915

Curb Stakes E of W of Klauber Swift

Sta	+	HI	−	Elev	
B.M.				341.58	
SE Klauber Swift	1.51	343.09	5.79	337.30	
SW "			6.79	336.30	
NE			4.79	338.30	
SW Klauber Swift Curb Stake				336.30	
TP	1.14	337.44	12.10	325.34	
TP	2.20	327.54	4.50	323.04	SL Klauber Nail Pole
SL Klauber 217.14' W of W Swift	3.36	326.40	7.40	319.00	
TP				323.04	
NL Klauber 240.9 W of W Swift	5.74	328.78	8.98	319.80	

Nov 20-1915 Ad-Hyatt Engr

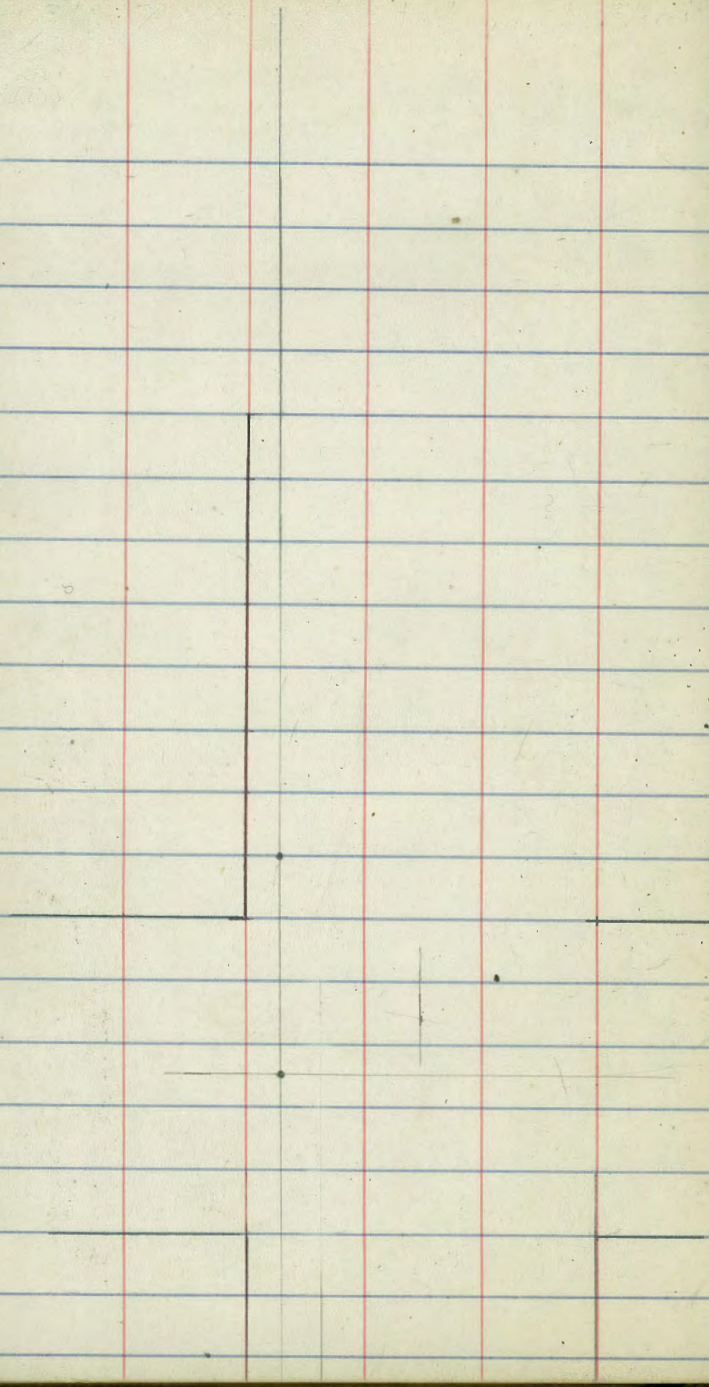
Pipe SE Klauber & Swift

Nov 22-1915 Ad-Hyatt Engr

Hyatt Graf Nov-30/1915

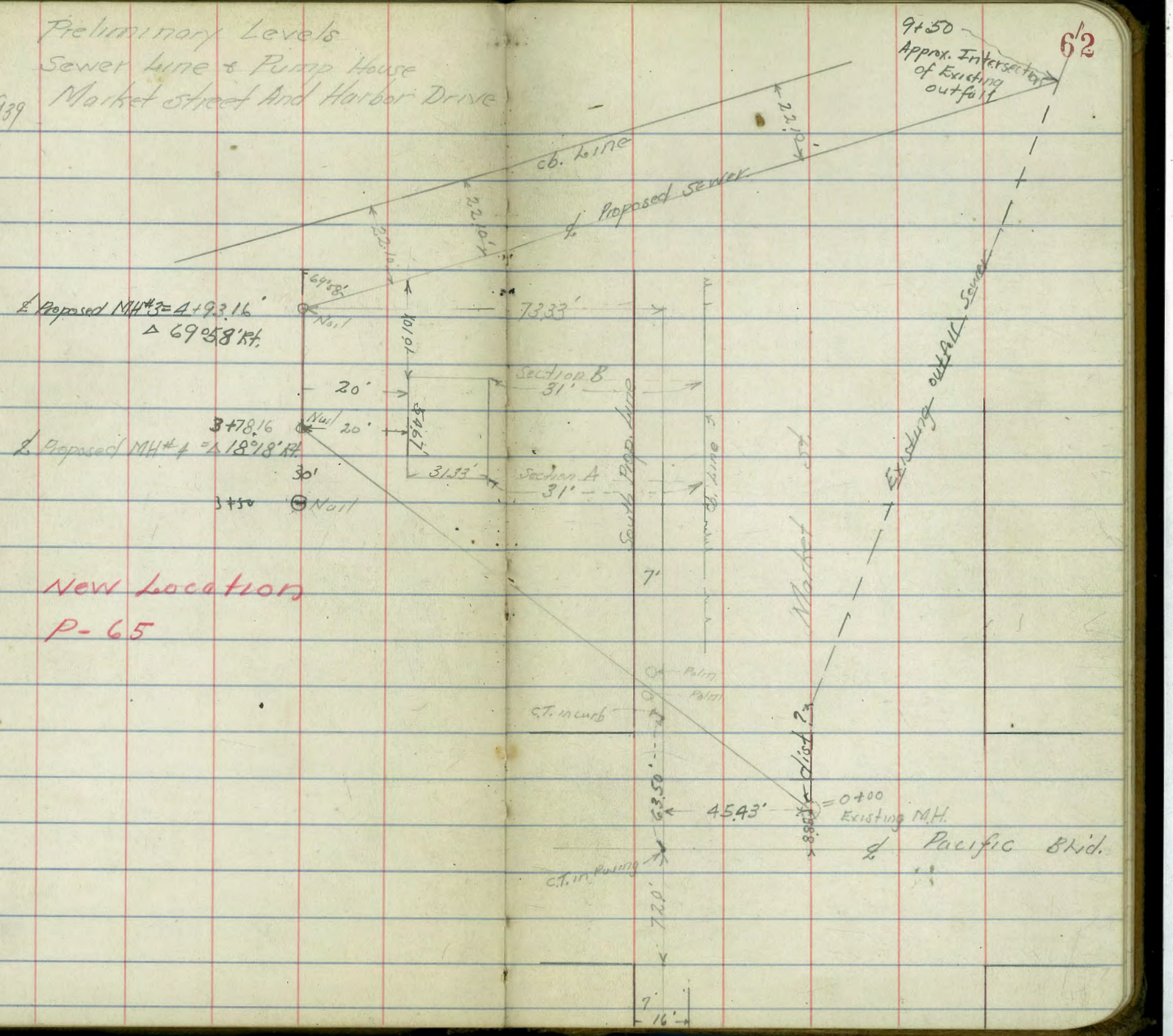
Curb Stakes Swift Steiner South to Klauber

Sta	+	HI	−	Elev		
B.M.				341.58		
Klauber NE Swift	0.80	342.38	4.08	338.30		
NW "			5.08	337.30		
SE "			5.08	337.30		
SW			6.08	336.30		
B.M.				341.58		
EL Swift 400's of Sd Steiner	11.57	353.15	2.25	350.90		
WL Swift & " "			2.85	350.30		
		Finish Stakes Swift			Klauberto Cush	
B.M.				341.58	Pipe SE Klauber & Swift	Ford Dec 13- Hyatt Elev 1915
T.P.	1.28	342.86	12.53	330.33		
T.P.	0.07	330.40	13.00	317.40		
T.P.	0.10	317.50	12.80	304.70		
T.P.	0.01	304.71	12.91	291.80		
T.P.	0.20	292.00	8.70	283.30		
	2.89	286.19	1.99	284.20	284.20	
	4.55		61.93			
			4.55			
			57.38			
			284.20			
			341.58 ✓			



Walker
Bliss
Isbell
Nov. 25-1939

Preliminary Levels
Sewer Line & Pump House
Market Street And Harbor Drive



New Location
P-65

Walker
Bliss
Isbell
Nov. 27-39

LEVELS For Proposed Sewer
As Located on Page 62

New Levels
P-66

	4.09	6.51		2.42	S.W. B.P. Market + India
chk. B.M.			5.07		S.W. B.P. Market + Kettner
T.P.	6.85	7.98	5.38	1.13	
0+00 - on Rim MH			4.59	3.39	8.85 W. of ℄ Pacific
" " " Flow Line			16.04	-8.06	- 8.36 Grd Book 214-47
0+50 on Paving			4.92	3.06	
1+00 " "			4.99	2.99	
+16.2 " "			5.02	2.96	Int. of S. cb Line
" " " top cb			4.20	3.78	
1+41 = N.L. Side Walk			4.15	3.83	
+56.9 = S.L. " "			4.08	3.90	
2+00 on oil Surface			4.08	3.90	
3+00 " " "			4.50	3.48	
3+78.16 = Δ 18°18' Rt. " " "			5.14	2.84	Proposed MH. # 4
4+00 T.P.	4.00	6.61	5.37	2.61	T.P. on sta. 4+00
4+93.16 = Δ 69°58' Rt. = ℄ MH # 3 on Paving			5.25	1.36	Proposed MH. # 3
5+00			5.21	1.40	
+59.16 = ℄ MH # 2 = P.O.T. on Paving			5.24	1.37	Proposed MH. # 2
6+00 on Paving			5.16	1.45	

	6.61		1	
7+00 on Paving		4.90	1.71	
8+00 " "		4.70	1.91	
9+00 " "		4.55	2.06	
9+50 = ℄ Existing Sewer		4.40	2.21	Approx. ℄ Existing Sewer
chk. S.W. 7' tack		4.87	1.74	Harbor Dr. + Mkt.

Cross Sections For Pump House

Section B

S. cb. Line on Pav.	4.05	2.56	
" " " on top cb.	3.39	3.22	
+8' = N. edge Side Walk	3.31	3.30	
+13' = S " " "	3.26	3.35	
+31' = N.W. Cor. pump House	3.45	3.16	on oil pav.
+62.33 = S.W. " " "	3.77	2.84	

Section A

S.E. Cor. Pump House	3.37	3.24	
N.E. " " "	3.13	3.48	
S. edge Walk	3.17	3.44	
N " "	3.19	3.42	
South. cb. on top.	3.25	3.36	
S. cb. Line on Pav.	3.91	2.70	

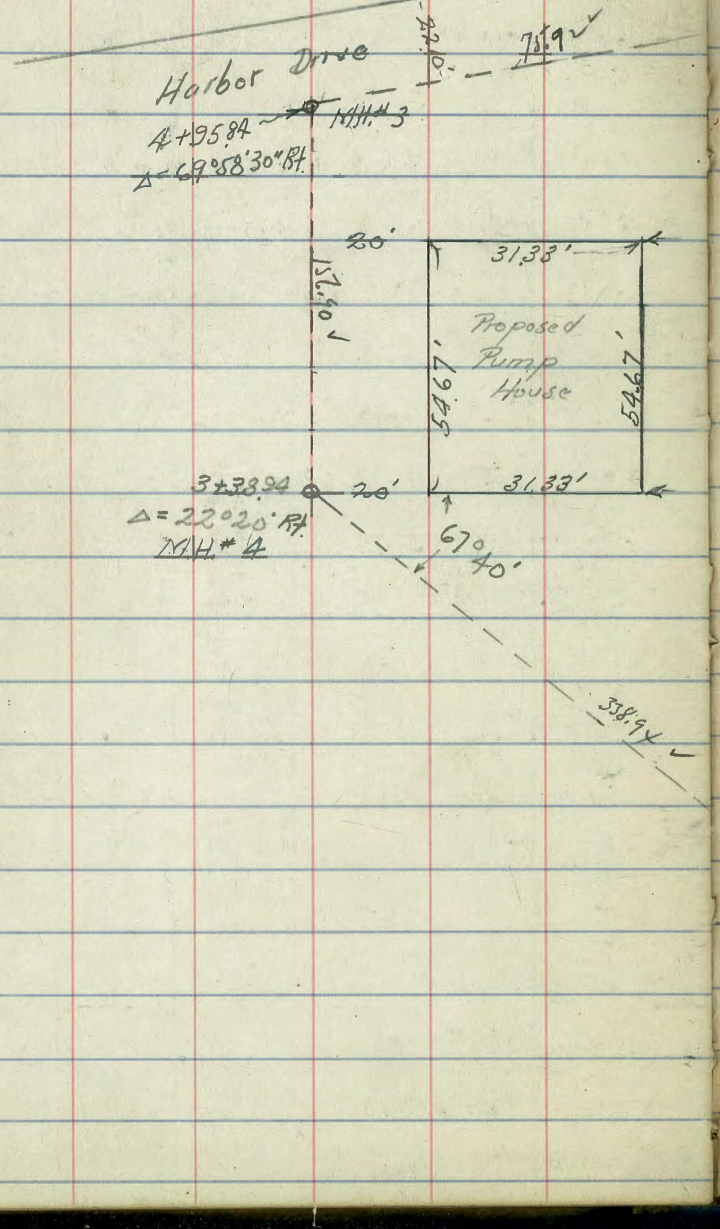
Cont. on Page 64

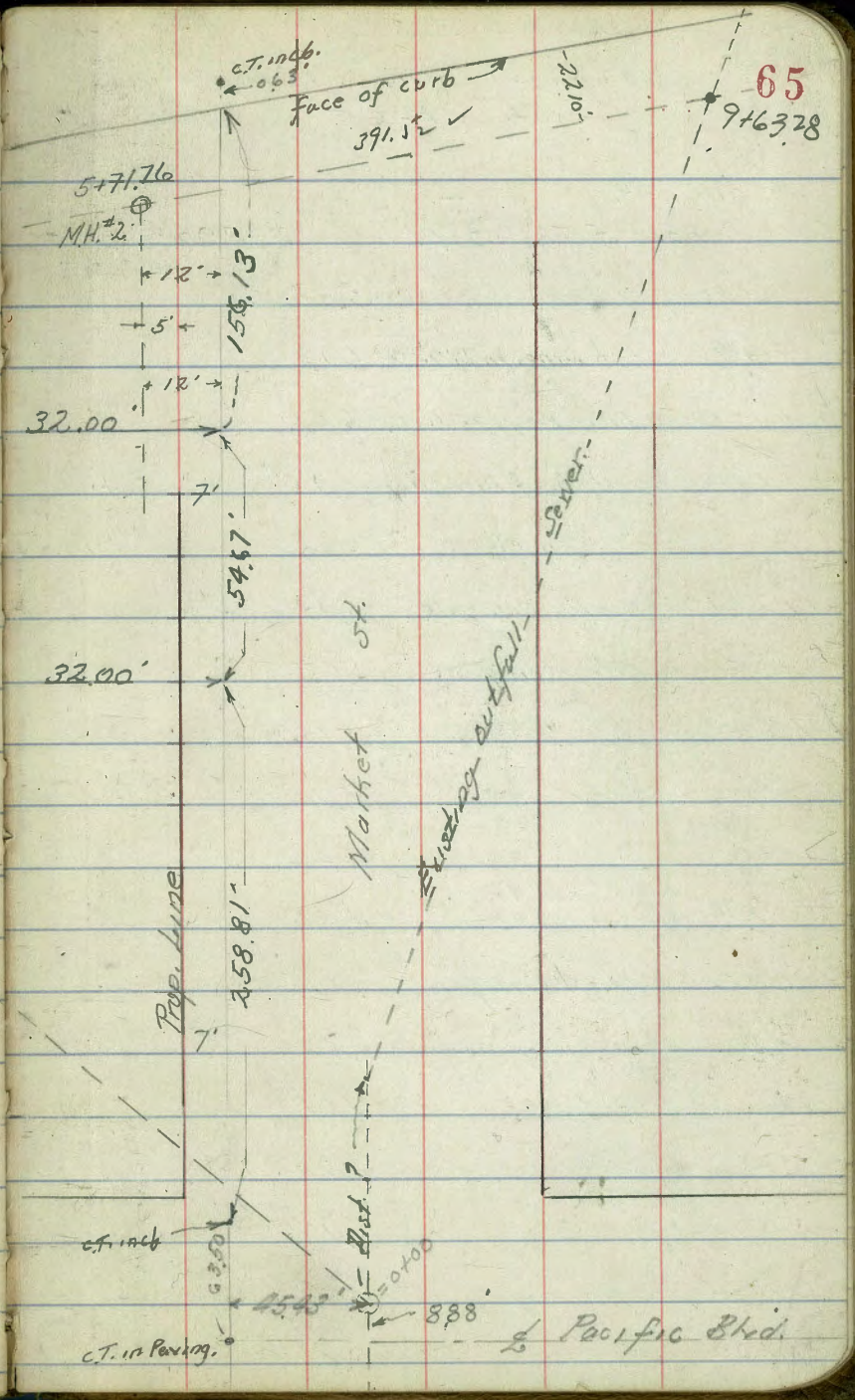
Cont. from P-63

		$\overline{\pi}$ 6.61					
T.P.	3.90	7.75	2.76	3.85			
chk USGS. BM Bet. Pacific & Cal.			5.48	2.27	in N. Cb. Police Sta. const. Notes	Grade Book	188-34

New - Location Proposed Sewer
And Pump House
Market st. And Harbor Drive
Levels P-66

Walker
Bliss
Isbell 1-15-20





NEW LEVELS
Proposed Sewer + Pump House
Location P-65

B.M. Rim MH.					
0+00 P-63	5.58	8.97		3.39	
0+50			5.87	3.10	
0+96 = at cb line in Drive Way			6.13	2.84	
1+00 in Drive Way on Conc.			6.01	2.96	
1+14.8 = West cb. of Drive Way			5.75	3.22	Gutter
" " = " " on cb			5.18	3.79	
1+29.7 = SLY edge side walk			5.13	3.84	
1+55 on oil paving			5.05	3.92	
2+00 " " "			5.10	3.87	
+50 " " "			5.14	3.83	
3+00 " " "			5.46	3.51	
+38.94 Δ 22°20' Rt. on Nail MH #4			5.86	3.11	
4+00 " oil paving			6.39	2.58	
+50			7.15	1.82	
4+95.84 = MH #3 Δ 69°58'30" Rt.			7.61	1.36	
T.P.	5.77	7.53	7.21	1.76	on cT. W cb Harbor Drive Ket. + South 7' Line
5+71.76 = MH #2 P.O.T.			6.12	1.41	
6+00 on paving			6.07	1.46	
7+00 " "			5.86	1.67	

	7.53			
8+00 on Paving		5.60	1.93	
9+00 " "		5.41	2.12	
9+63.28 = Existing Sewer Intersection		5.27	2.26	Approx.
chk. starting B.M.		4.13	3.40	
			3.39	
			0.01 = Error	

LEVELS Corners of Pump House

S.E. Cor.	7.53	4.25	3.28
N.E. "		4.04	3.49
N.W. "		4.35	3.18
S.W. "		4.66	2.87

Indexed LM

Final on

Ivy + Bancroft Pav.

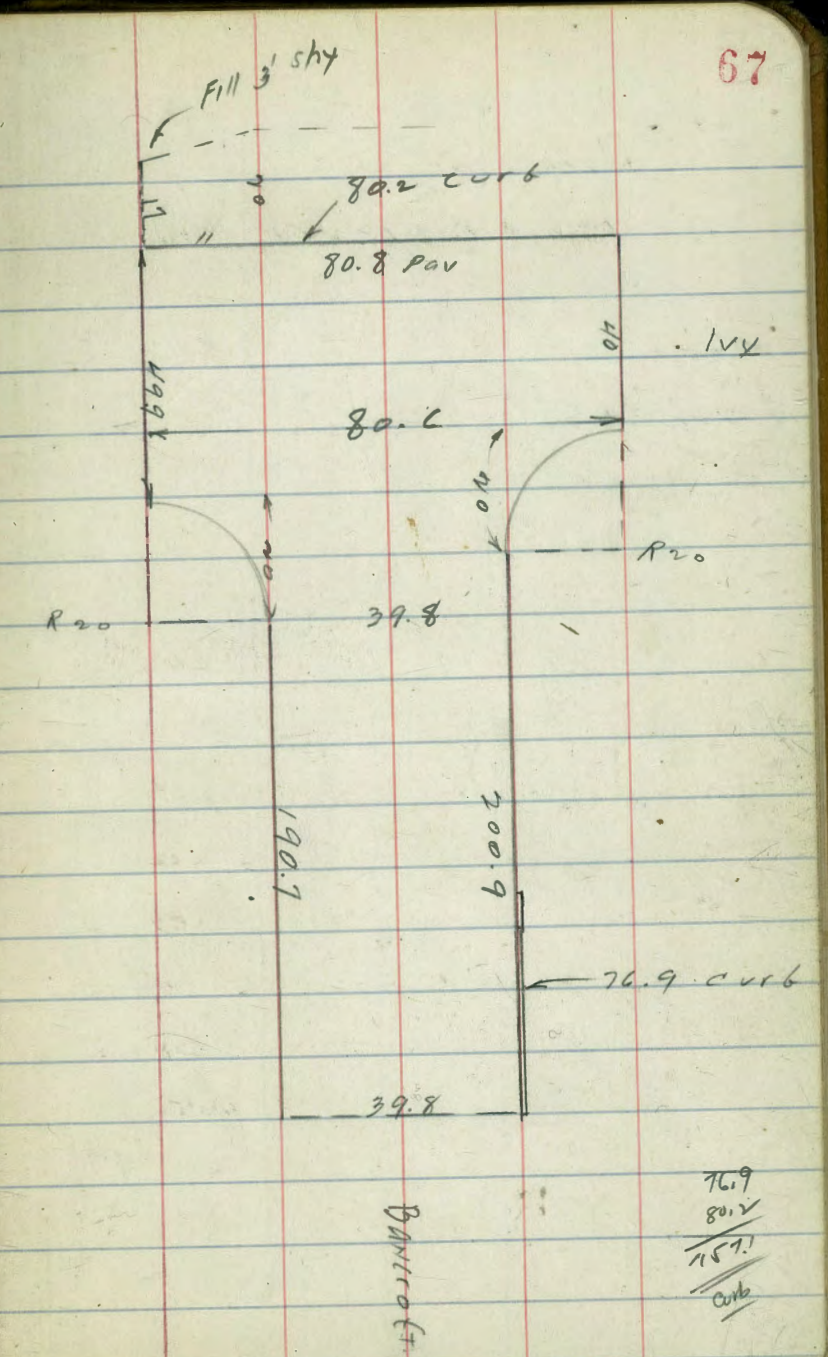
Moore
Osborne
S'Meyer

4-25-41.

Paving Area. [illegible] - 5-1-41

190.7 + 200.9 =	391.6 × 19.9	=	7792.84
40 × 80.7 =		=	3228.00
40 × 20 =		=	800.00
40 × 29.9 =		=	1196.00
			13016.84
Less. Area. ½ (20 × 20 × π) =			628.32
			12388.52

Sq ft.



76.9
80.2
157.1
Curb

Indexed
LM.

Moore Final Meas. of
Osborne
S. Meyer Alley Blk 173 UH.
4-25-41.

3+00	20
2+68.5	19.9
2+68.4	19
2+32.3	19.2
2+32.2	19.6
2+19	19.6
2+18	20
N. end of Existing alley Curb Returns = 0+12.4	20

NCG

19.9

0+00

1.5 Not Replaced

Lincoln

6+19.1	20
3+64	20
3+47.9	19.5
3+32.8	19.5
3+32.7	20

Polk

S.L.2

Paved Area - 5-1-41 86

39.9 x 12.4 = 494.76
40 x 205.6 = 8224.00
39.6 x 1 = 39.60
39.2 x 13.2 = 517.44
38.8 x 0.1 = 3.88
38.2 x 36.1 = 1379.02
38.9 x 0.1 = 3.89
39.9 x 31.5 = 1256.85
40 x 32.7 = 1308.00
39.5 x 0.1 = 3.95
39.0 x 15.1 = 588.90
39.5 x 16.1 = 635.95
40 x 255.1 = 10204.00

619.1 24660.24

2 12330.12

Sq ft

Moore
4-25-41.

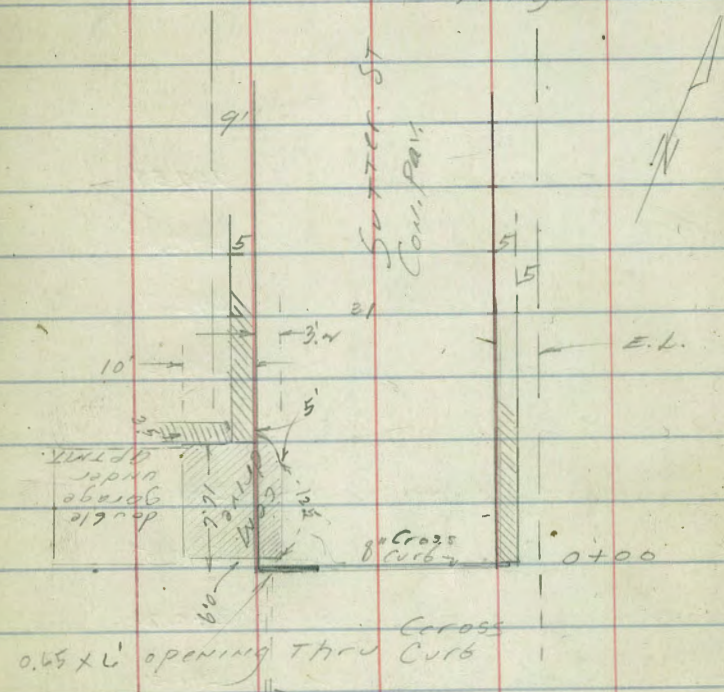
Indexed LM

Levels at end of Paving
on Sutter St. S of Pringle

Pringle Washington NWBP	0.85	265.92		265.07
T.P.	0.76	253.76	12.92	253.0
T.P.				
0-17.4				
W cb			9.83	243.93
W gut			10.46	243.30
0-16.6				
W cb			9.92	243.84
W gut on drive			10.19	243.57
+1.4 pav			10.55	243.21
1/4 "			10.35	243.41
c "			10.25	243.51
1/4 "			10.16	243.60
gut "			10.24	243.52
E cb			9.66	244.10

Reduced & Plotted by M.R.Y.

Pringle St.



Pipe covered and plugged up with Rubbish from Bldg. material etc. plaster, cement etc.

0+40

Cem. Drive to do. garage extends into roadway 3' & partly abstracts cb. inlet in cross curb

		25376						
T.P.	1.86	243.45	12.17	241.59				
	0-C							
E c6			0.88	242.57				
E edge E walk			0.82	242.63				
E.L.			0.8	242.7				
+5			2.3	241.2				
	0-5.8							
-5			2.4	241.1				
E.L.			1.0	242.5				
+2			3.3	240.2				
+5			2.2	241.3				
+5 edge walk			0.85	242.60				
E c6			0.91	242.54				
	0-3							
-5			6.1	237.4				
-2			3.9	239.6				
-1			5.8	237.7				
E.L.			6.3	237.2				

	243.45				
E.L. +2		7.4	236.1		
E c6		2.7	240.8	Bottom c6	
E gut		2.4	241.1	" Pav.	
E 1/4		2.4	241.1	" "	
	0-1				
E		2.9	240.6	" "	
E on ground		7.0	236.5		
E 1/4		2.8	240.7	" "	
E 1/2 " "		6.7	236.8		
E gut		2.9	240.6	" "	
E gut " "		8.4	235.1		
	0+00 = N edge Cross St				
E.L. -10 ground		9.5	234.0		
" -3 "		6.5	237.0		
E.L. "		9.0	234.5		
+5 "		11.2	232.3		
+5 Top end 4" sidewalk		1.71	241.74		
E c6 ground		11.5	232.0		
E c6		1.8	241.7	Bot. curb	
E c6		3.1	240.4	Top	

243.45

0+00

E 1/4	Top Cross c6	1.79	241.66
"	gutter Top Pav.	2.42	241.03
"	ground	9.6	233.9
E	Top c6	1.87	241.58
"	Top Pav. in gut	2.54	240.91
"	ground	7.1	236.4
W 1/4	Top c6	1.89	241.56
"	Top Pav. in gut	2.67	240.78
"	ground	7.0	236.5
W 1/4 +1	"	1.9	241.6
W	gut. Pav.	2.81	240.64
"	" Top curb	1.91	241.54
W L		0.0	243.45

Back up and get out your original ball

0+00 – 8.3 to show drive

W L on drive	+0.07	243.52
W c6 " "	0.68	242.77
W c6 + 3' Pav.	1.43	242.02
W 1/4 Pav.	1.27	242.18

243.45

00 – 0.9

W L on Edge drive	0.0	243.45
W c6 " " "	1.63	241.82
W c6 + 3' " "	2.68	240.77

00 – 0.8

W L	0.0	243.45
W c6	1.64	241.81
W gut. Pav	2.78	240.67
" " +3'	2.69	240.76

0+00

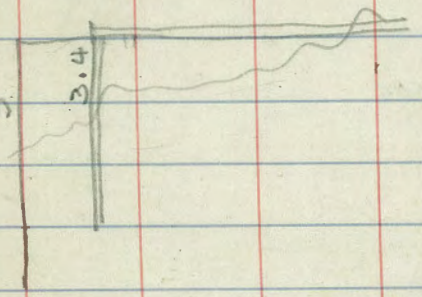
W L ground	0.0	243.45
+8 "	0.3	243.2
W c6 Wash out	1.6	242.1
1/4	2.3	241.5
1/4 +1	6.9	236.6
℄	7.4	236.1
1/4	9.8	233.7
E c6	12.0	231.5
E L.	11.2	232.3
+1	11.0	232.5

243.45

+ 2		8.0	235.5
+ 10	old fill	13.0	230.5
0 + 15			
E.L. – 20	old fill	23.1	220.4
E.L.	washout	18.1	225.4
E c6	" "	16.7	226.8
1/4	" "	17.8	225.7
℄	" "	12.2	231.3
+ 3	old fill	6.2	237.3
1/4	washout	5.7	237.8
W c6		8.6	234.9
W L		3.7	239.8
+ 5		0.0	243.45
0 + 30			
+ 5		9.3	234.2
W L		11.6	231.9
+ 7		11.2	232.1
W c6		16.2	227.1
1/4		14.2	229.1
℄		17.5	226.0

243.45

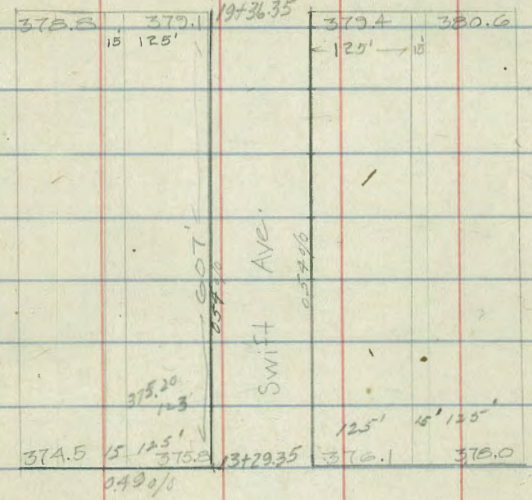
1/4		20.6	222.9
E c6		22.5	221.0
E L		24.1	219.4
+ 15	old fill	27.8	215.7



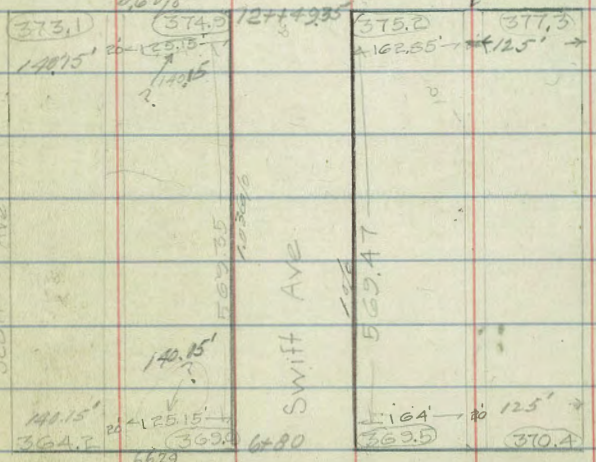
BM	3/4" Iron Pipe 18.5' SE of SE	379.31	Swift & Cajon
B.M.	Iron Pipe 21.3' SE of SE	374.95	orange & swift

Grades Swift Ave.

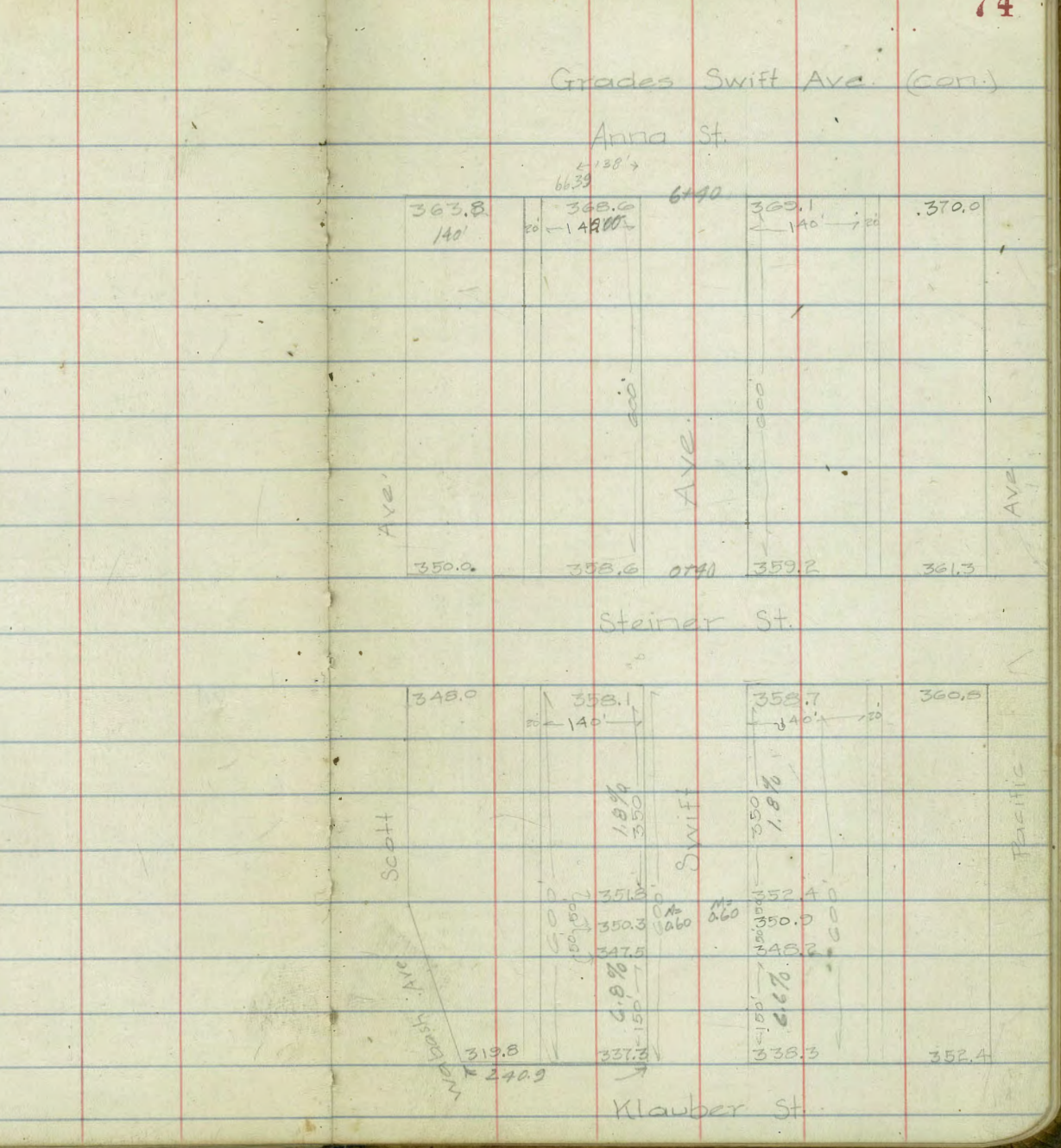
Cajon Ave.



Orange Ave.



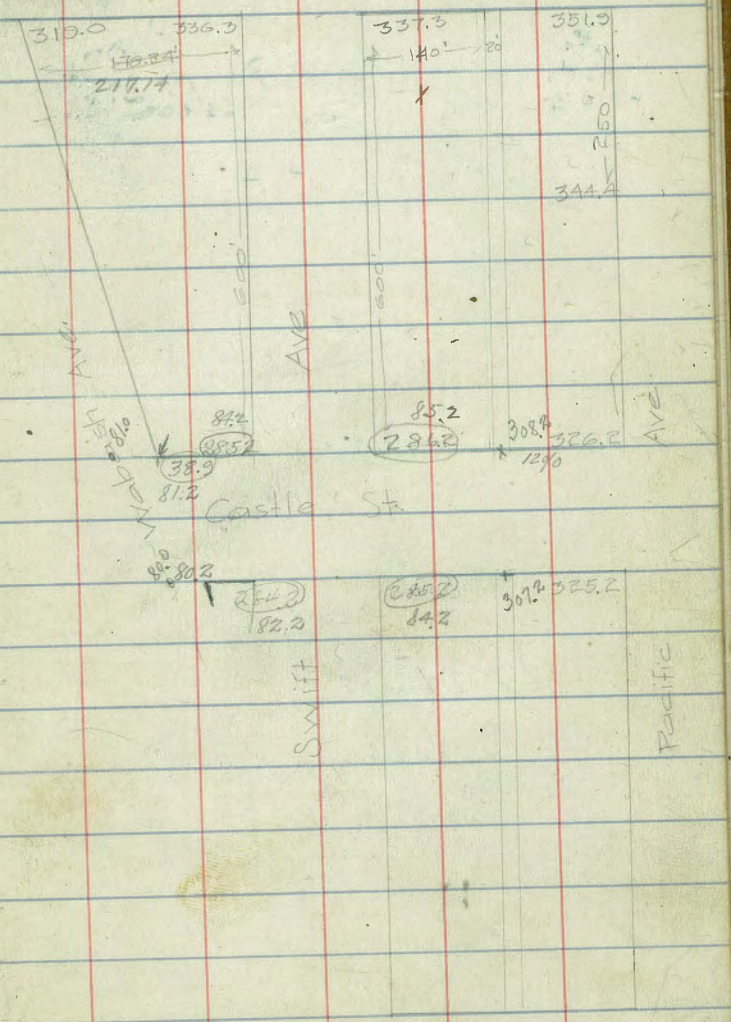
Grades Swift Ave. (con.)



BM 3/4" Pipe 19' SE of SE Klauber & Swift 341.58

Grades Swift Ave.

Klauber St.



ISTANCES 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	
)	7.00	7.15	7.30	7.45	7.60	7.75	7.90	8.05	8.20	8.35	0
	8.50	8 65	8.80	8.95	9.10	9.25	9.40	9.55	9.70	9.85	1
	10.00	10.15	10.30	10.45	10.60	10.75	10.90	11.05	11.20	11.35	2
	11.50	11.65	11.80	11.95	12.10	12.25	12.40	12.55	12.70	12.85	3
	13.00	13.15	13.30	13.45	13.60	13.75	13.90	14.05	14.20	14.35	4
	14.50	14.65	14.80	14.95	15.10	15.25	15.40	15.55	15.70	15.85	5
	16.00	16.15	16.30	16.45	16.60	16.75	16.90	17.05	17.20	17.35	6
	17.50	17.65	17.80	17.95	18.10	18.25	18.40	18.55	18.70	18.85	7
	19.00	19.15	19.30	19.45	19.60	19.75	19.90	20.05	20.20	20.35	8
	20.50	20.65	20.80	20.95	21.10	21.25	21.40	21.55	21.70	21.85	9
	22.00	22 15	22.30	22.45	22.60	22.75	22.90	23.05	23.20	23.35	10
	23.50	23.65	23.80	23.95	24.10	24 25	24.40	24.55	24.70	24.85	11
	25.00	25.15	25.30	25.45	25.60	25.75	25.90	26.05	26.20	26.35	12
	26.50	26.65	26.80	26.95	27.10	27.25	27.40	27.55	27.70	27.85	13
	28 00	28.15	28.30	28.45	28.60	28.75	28.90	29.05	29.20	29.35	14
	29.50	29.65	29.80	29.95	30.10	30.25	30.40	30.55	30.70	30.85	15
	31.00	31.15	31.30	31.45	31 60	31 75	31.90	32.05	32.20	32.35	16
	32.50	32.65	32.80	32.95	33.10	33.25	33.40	33.55	33.70	33.85	17
	34.00	34.15	34.30	34.45	34.60	34.75	34.90	35.05	35.20	35.35	18
	35.50	35.65	35.80	35.95	36.10	36.25	36.40	36.55	36.70	36.85	19
	37.00	37.15	37.30	37.45	37.60	37.75	37.90	38.05	38.20	38.35	20
	38.50	38.65	38.80	38.95	39 10	39.25	39.40	39.55	39.70	39.85	21
	40.00	40.15	40.30	40.45	40.60	40.75	40.90	41.05	41.20	41.35	22
	41.50	41.65	41.80	41.95	42.10	42.25	42.40	42.55	42.70	42.85	23
	43.00	43.15	43.30	43.45	43.60	43.75	43 90	44.05	44.20	44.35	24
	44.50	44.65	44.80	44 95	45 10	45.25	45.40	45 55	45.70	45.85	25
	46.00	46.15	46.30	46.45	46 60	46.75	46.90	47.05	47.20	47.35	26
	47.50	47.65	47.80	47.95	48.10	48.25	48 40	48.55	48 70	48.85	27
	49.00	49.15	49.30	49.45	49.60	49.75	49.90	50.05	50.20	50.35	28
	50.50	50.65	50 80	50.95	51.10	51.25	51.40	51.55	51.70	51.85	29
	52.00	52.15	52.30	52.45	52.60	52.75	52.90	53.05	53.20	53.35	30
	53.50	53.65	53.80	53.95	54.10	54.25	54.40	54.55	54.70	54.85	31
	55 00	55.15	55.30	55.45	55.60	55.75	55 90	56.05	56.20	56.35	32
	56.50	56.65	56.80	56.95	57 10	57.25	57.40	57.55	57.70	57.85	33
	58.00	58.15	58.30	58 45	58.60	58.75	58.90	59.05	59.20	59 35	34
	59.50	59.65	59.80	59 95	60.10	60.25	60.40	60.55	60.70	60.85	35
	61.00	61.15	61.30	61.45	61 60	61.75	61.90	62.05	62.20	62.35	36
	62.50	62.65	62.80	62.95	63.10	63.25	63 40	63.55	63.70	63.85	37
	64.00	64.15	64.30	64.45	64.60	64.75	64.90	65.05	65.20	65.35	38
	65 50	65.65	65.80	65 95	66.10	66.25	66.40	66.55	66.70	66.85	39
	67.00	67.15	67.30	67.45	67.60	67.75	67.90	68.05	68.20	68.35	40

Calculated by F. E. Paradis, C. E.

ENGINEERING DEPARTMENT,
CITY OF EAST SAN DIEGO.
CALIFORNIA.

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

ROADWAY 16 FEET WIDE. SIDE SLOPES 1½ TO 1.

FOR SINGLE TRACK EMBANKMENT.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.4	0
1	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.9	1
2	11.0	11.2	11.3	11.5	11.6	11.8	11.9	12.1	12.2	12.4	2
3	12.5	12.7	12 8	13.0	13.1	13.3	13.4	13.6	13.7	13.9	3
4	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.1	15.2	15.4	4
5	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.6	16.7	16.9	5
6	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.1	18.2	18.4	6
7	18.5	18.7	18.8	19.0	19.1	19.3	19.4	19.6	19.7	19.9	7
8	20.0	20.2	20.3	20.5	20.6	20.8	20.9	21.1	21.2	21.4	8
9	21.5	21.7	21 8	22.0	22.1	22.3	22.4	22.6	22.7	22.9	9
10	23.0	23.2	23.3	23.5	23.6	23.8	23.9	24.1	24.2	24 4	10
11	24.5	24.7	24.8	25.0	25.1	25.3	25.4	25.6	25.7	25.9	11
12	26.0	25.2	26.3	26.5	26.6	26.8	26.9	27.1	27.2	27.4	12
13	27.5	27.7	27.8	28.0	28.1	28.3	28.4	28.6	28.7	28.9	13
14	29.0	29.2	29.3	29.5	29.6	29.8	29.9	30.1	30.2	30.4	14
15	30.5	30.7	30.8	31.0	31.1	31.3	31.4	31.6	31.7	31.9	15
16	32.0	32 2	32.3	32.5	32.6	32.8	32.9	33.1	33.2	33.4	16
17	33.5	33 7	33.8	34.0	34.1	34.3	34 4	34 6	34 7	34.9	17
18	35.0	35.2	35.3	35.5	35.6	35 8	35.9	36.1	36.2	36.4	18
19	36.5	36.7	36.8	37.0	37.1	37.3	37.4	37.6	37.7	37.9	19
20	38.0	38.2	38.3	38.5	38.6	38.8	38.9	39.1	39.2	39.4	20
21	39.5	39.7	39.8	40.0	40.1	40.3	40.4	40.6	40.7	40 9	21
22	41.0	41.2	41.3	41.5	41.6	41.8	41.9	42.1	42.2	42.4	22
23	42.5	42.7	42.8	43.0	43.1	43.3	43.4	43.6	43.7	43.9	23
24	44.0	44.2	44.3	44.5	44.6	44.8	44.9	45.1	45.2	45.4	24
25	45.5	45.7	45.8	46.0	46.1	46.3	46.4	46.6	46.7	46.9	25
26	47.0	47.2	47.3	47.5	47.6	47.8	47 9	48.1	48.2	48.4	26
27	48.5	48.7	48.8	49.0	49 1	49.3	49.4	49 6	49.7	49.9	27
28	50.0	50.2	50.3	50.5	50.6	50.8	50.9	51 1	51.2	51 4	28
29	51.5	51.7	51.8	52.0	52 1	52 3	52.4	52 6	52.7	52 9	29
30	53.0	53.2	53 3	53 5	53.6	53.8	53.9	54.1	54.2	54 4	30
31	54 5	54.7	54 8	55 0	55.1	55.3	55.4	55.6	55.7	55 9	31
32	56.0	56.2	56 3	56.5	56.6	56 8	56.9	57.1	57.2	57.4	32
33	57.5	57.7	57.8	58 0	58 1	58 3	58.4	58.6	58.7	58 9	33
34	59.0	59.2	59.3	59.5	59.6	59.8	59.9	60.1	60.2	60.4	34
35	60.5	60.7	60.8	61.0	61.1	61.3	61 4	61.6	61.7	61.9	35
36	62.0	62.2	62.3	62.5	62 6	62.8	62.9	63.1	63.2	63.4	36
37	63.5	63 7	63.8	64.0	64.1	64.3	64.4	64.6	64 7	64 9	37
38	65.0	65.2	65.3	65.5	65.6	65 8	65 9	66.1	66 2	66.4	38
39	66 5	66.7	66.8	67.0	67.1	67.3	67.4	67.6	67 7	67 9	39
40	68.0	68 2	68.3	68.5	68.6	68.8	68.9	69.1	69.2	69 4	40

Calculated by F. E. Paradis. C. E.

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