LEVEL BOOK.

No. 410

Hoya & Sisson
Jan - 1915
To

F. B. 573

MICROFILMED
DEC 14 1964

Hugo -
Sisson-

Indexed to date Feb 6, 1918.
Card " " " Mar. 22, 1918.

INDEX:-

Castle X sections	Bisson St 150E of Hugo	1-2 ✓
Cut & Fill stakes	Sisson (Clark - Chatham)	3-4 ✓
" " "	" Klauber South	5-6 ✓
" " "	Howard	6 ✓
" " "	Sisson - Howard South	6-7 ✓
" " "	Clark St.	7 ✓
X-Sections - Hugo	(Centre - Chatham)	8-9 ✓
Cuts & Fills Sisson	Steirer South to Klauber	10 - ✓
" "	Klauber E & W of Sisson	11 ✓
Curb Stakes	Center bet Hugo & Sisson	12 ✓
Cuts & Fills	Center E & W of Sisson	12 ✓
Culvert	Across Sisson on Center	13 ✓
Cut & Fill levels	Sisson (Steirer North	14-16 ✓
" " "	Orange E & W Sisson	17-18 ✓
" " "	Anna " "	18 ✓
Record of slope stakes on Castle		20 ✓
Culvert in Castle bet Hugo & Sisson		21 ✓
Curb stake Sisson & X-Sts. bet Howard & Chatham		22-24 (19) ✓
Cut & fills Castle bet Sisson & Daley		25 ✓

Index cont.

Curb stakes Sisson-Howard-Clark 26 ✓
Culvert Plan- Castle & Hugo 44 ✓
Culvert & stakes " " 45-46 ✓
B.M.'s Hugo Steiner-Cajon 48 ✓
Culvert plan Hugo (Centre-Chatham) 49 ✓
" & stakes " " " 50-51 ✓
± stakes Castle E of Hugo 38 ✓
± " & X Sections Hug 52 ✓
" " " Anna E&W Hugo 53 ✓
" " " Hugo Anna-Orange 54 ✓
" " " Orange E&W Hugo 55 ✓
" " " Hugo Orange Cajon 57 ✓
" " " Centre E&W Hugo 37 ✓
" " " Clark " " " 38 ✓
" " " Howard " " " 39 ✓
" " " Klauber " " " 40 ✓
" " " Hugo Centre to Chatham 41 ✓
Slope stakes Hugo Centre 42 ✓

Index Cont.

Slope stakes Castle-Hugo 43 ✓
" " Hugo-Klauber-Castle 43 ✓
46
1A
16
Finish Stakes Castle E&W Hugo Sept 11 47 ✓
51
55
Line & Grade on Culverts at Hugo & Castle 59 ✓
60
Curb Stakes Klauber-E&W of Hugo 65 ✓
" " Hugo-Castle-Howard 66 ✓
" " Howard-E&W of Hugo 67 ✓
Sketch accessory Culverts Hugo & Castle 61 ✓
Curb Stakes-Sisson-Steiner North 27 ✓
" " Anna-E&W of Sisson 28 ✓
" " 4th E/Cajon to Orange 29 ✓
" " Sisson & Castle-East 31 ✓
X Sect ± Hugo-Steiner South 32 ✓

Index cont.

Curb Stakes Hugo	63 ✓
" " Anna E & W of Hugo	64 ✓
Grade diagram - Hugo	68-70 ✓
Finish Stakes - Hugo & Centre	71 ✓
Resetting Curb Stakes - Hugo & Clarke	71 ✓
Curb Stakes Centre - E & W of Hugo	71
Grade diagram - Sisson	72-74 ✓
Grades XSts. E & W of Sisson	75 ✓

Xsect. Castle Hugo to Sisson

Jan 8-1914
Ford
Hyatt
Graf

1

Sta	+	HI	−	Elev.		North 40' NPL.	20' N 1/4	℄	20' S 1/4	South 40 SPL	Grade
B.M.				336.64		Bolt Pole SW Conklin & Castle (Book 54 Page 58)					
New B.M.	3.05	339.69	8.13	331.56		Bolt Pole S.W. Hugo & Castle					
West Line Conklin = 0+00 - Sta East to West - 1+50	6.24	337.80			329.5	5.7 332.1	7.3 330.5	7.3 330.5	7.4 330.4 +39 7.2 330.6	1.7 336.1	329.5
1+75					329.17	3.8 334.0 +35 3.9 333.9	5.2 332.6	4.1 333.7	5.1 332.7 +25 5.0 332.8 +28 2.7 335.1	2.6 335.2	329.23
2					328.73	4.6 333.3 +30 4.5 333.3	5.2 332.6	4.6 333.2	4.3 333.5 +30 3.7 334.1	3.3 334.5	329.07
2+50					327.86	6.3 331.5	6.0 331.8	5.5 332.3	5.4 332.4	3.8 334.0	328.53
E L Hugo 3+00					327.0	13.2 324.6	6.1 331.7	4.8 333.0	3.3 334.5	2.7 335.1	328.00
℄ Hugo 3+40					326.5	317.2	8.1 329.7	4.8 333.0	3.8 334.0	3.9 333.9	327.5
W.L. Hugo 0+00			10.09	327.71	326.0	310.8		11.7 326.1	6.8 331.0	5.6 332.2	327.0
0+00	2.38	330.09					9.3 320.8				
T.P. 0+50 S. 0+50			10.72	319.37						10.7 319.4	7.3 326.66
0+50	0.75	320.12	12.13	307.99				13.2 306.9	6.6 313.5		
0+50	7.43	315.42	12.29	303.13			14.9 300.5				
0+50	1.09	304.22			−20.6 326.08	+90 2.0 302.2 +65 8.7 295.5 8.7 295.5					
1+00					−34.4 326.17	+63 0.2 304.0	12.4 291.8	11.0 293.2	10.5 293.7	8.8 295.4	5.0 299.2 326.33
1+30							5.7 298.5	13.2 291.0	12.3 291.9	11.8 292.4	12.1 292.1 +75 2.4 301.8 326.13
℄ Alley 1+50					326.25		−35.2 Grade = 326.0	6.0 298.2	12.4 291.8 +15 10.8 293.4	11.0 293.2	13.4 290.8 +75 12.3 291.9 +90 9.6 294.6
2								−38.1 Grade = 327.33	+10 2.6 301.6	2.6 301.6	12.3 291.9 +80 15.4 288.8 +95 15.0 289.2
2+50									−32.4 Grade = 328.66		7.9 296.3 +80 18.6 285.6 +105 16.8 287.4

Cont'd

Sta	+	HI	−	Elev	Grade	North 40 N.P.L	North ¼	℄	South 20' ¼	South 40' SPL	
3+00		304.22	0.03	304.19							+100 18.6 295.6
1+50	12.56	316.75			326.25	+50 2.1 316.6	9.1 307.6				
1+30					326.22	+65 2.0 314.7					
1+00					~						+70 5.1 311.6
2+00								5.9 310.8	+8' 9.6 307.1		
2+50								1.9 314.8	+4 +9 3.0 9.3 313.7 307.4	9.6 307.1	
3			0.21	316.54						+30 40 312.7	4.4 312.3 0 Grade 330. +4.5 3.5 313.2
2	11.95	328.49			327.66	+60 3.6 324.9	7.3 321.2	12.4 316.1			
2+50					329.08		1.8 326.7	5.3 323.2			
EL Sisson 3+00								1.8 326.7	7.7 320.8		
3+20									+10 0.7 327.8	3.1 325.4	6.8 321.7 0 Grade 330.
3+40											2.1 325.8 "
WL Sisson 3+80			0.55	327.94							00 328.5 "
3+00	7.51	335.45			330.50		3.5 332.0	5.8 329.7			
3+20					330.5		2.8 332.7	3.9 331.6	4.5 331.0		
3+40					330.5		1.6 333.9	2.8 332.7	3.6 331.9	6.1 329.4	
3+80					330.5		0.9 334.6	1.8 333.7	3.4 332.1	5.2 330.3	
			0.77	334.68							
			3.93	331.52							

Sisson Ave
Clark - Chatham

Graf. Hyatt 2/4/15

Sta	+	H.I	-	Elev		West +or-	West Grade	West W.P.L.	East E.P.L.	East Grade	East +or-
				328.54	Spike in pole S.L. Howard at alley pit Sisson & Daley						
	6.63	335.17									
T.P. on rock			8.63	326.54							
	1.97	328.51									
T.P. on 27+60W			11.40	317.11							
	2.70	319.81									
S.L. Clark 27+60						-0.1	317.2	2.7 317.1	1.7 318.1	318.0	+0.1
28						+0.2	316.06	3.5 316.3	2.8 317.0	316.84	+0.2
+50						+0.2	314.63	5.0 314.8	3.7 316.1	315.38	+0.7
29						-0.1	313.20	6.7 313.1	5.2 314.6	313.93	+0.7
+50						-0.3	311.76	8.3 311.5	6.8 313.0	312.46	+0.6
30						-0.2	310.33	9.7 310.1	8.4 311.4	311.01	+0.4
T.P. on W. +50			11.47	308.34		-0.6	308.89	11.5 308.3	10.0 309.8	309.55	+0.3
	2.72	311.06									
31						-0.6	307.46	4.2 306.9	3.1 308.0	308.09	-0.1
+50						-0.7	306.02	5.8 305.3	4.6 306.5	306.63	-0.1
32						-0.6	304.59	7.1 304.0	5.6 305.5	305.17	+0.3
+50						-0.6	303.15	8.5 302.6	6.6 304.5	303.71	+0.8
33						-0.4	301.72	9.8 301.3	7.4 303.7	302.25	+0.5

Sisson Cont'd.

Sta	+	H.I.	−	Elev	Remarks
N.L. Center T.P. on West. 33+60		311.06	11.10	299.96	
	8.85	308.81			
S.L. Center 34+40					
35					
+50					
36					
+50					
37					
+50					
38					
+50					
39					
+50					
40					
N.L. Chatham				SB 304.60	Spike in fence corner N.W. Cor. Chatham Sisson
+40			4.08	304.73	
B.M.			8.21	300.60	
	11.61	312.21			
T.P.			1.30	310.91	
				(310.12)	On P.I. 80' S.E. of S.E. Center + Conklin
	3.62	314.53	4.28	310.25	

	West			East		
+ or −	Grade	W.P.L.	E.P.L.	Grade	+ or −	
		11.1	8.6			
00	300.0	300.0	302.5	300.5	+ 2.0	
		11.5	7.8			
− 2.1	299.4	297.3	301.0	299.8	+ 1.2	
		8.9	7.8			
− 0.4	300.33	299.9	301.0	300.95	+ 0.3	
		6.2	7.1			
+ 1.5	301.11	303.6	301.7	301.59	+ 0.2	
		4.7	5.8			
+ 2.3	301.88	304.1	303.0	302.33	+ 0.7	
		3.2	4.4			
+ 2.9	302.67	305.6	304.4	303.12	+ 1.3	
		2.9	3.3			
+ 2.5	303.43	305.9	305.5	303.91	+ 1.6	
		2.6	2.1			
+ 2.1	304.07	306.2	306.7	304.55	+ 2.2	
		2.5	2.1			
+ 1.9	304.41	306.3	306.7	304.85	+ 1.9	
		2.7	2.2			
+ 1.7	304.44	306.1	306.6	304.82	+ 1.8	
		3.0	2.9			
+ 1.6	304.17	305.8	305.9	304.46	+ 1.4	
		3.7	3.2			
+ 1.4	303.75	305.1	305.6	303.94	+ 1.7	
		4.0	3.6			
+ 1.5	303.33	304.8	305.2	303.42	+ 1.8	
		4.4	4.1			
+ 1.4	303.00	304.4	304.7	303.0	+ 17	

Spike in pole 160' South of Center on Alley Between Hugo + Sisson Pole # 2910

Sisson Ave Rhuber South

Sta	+	H.I.	−	Elev.
B.M.	3.59	348.21		344.62
7+20				
+50				
8				
+50				
9				
+50				
10				
T.P. on West hub +50.			7.35	340.86
	1.35	342.21		
11				
+50				
12				
+50				
N.L. Castle.				
13+20				
B.M.			7.43	334.78
S.L. Castle				
14+00	000	334.78		
TP. on East				
17+40			62.3	328.55

+or−	West West Curb Grade	West P.L.	℄	East P.L.	East East Curb Grade	Ford Hyatt Grade 2/22/15 +or−
S.W. Rhuber + Sisson		Spike in pole 3.5		5.2		
+2.2	342.35	344.7		343.0	342.0	+1.0
		3.8		4.7		
+2.1	342.26	344.4		343.5	341.82	+1.7
		4.0		4.9		
+2.3	341.86	344.2		343.3	341.5	+1.8
		4.5		5.2		
+2.2	341.46	343.7		343.0	341.18	+1.8
		4.6		5.8		
+2.5	341.06	343.6		342.4	340.87	+1.3
		5.6		6.4		
+1.9	340.66	342.6		341.8	340.55	+1.3
		6.5		6.9		
+1.7	340.14	341.7		341.3	340.10	+1.2
		7.4		7.6		
+1.7	339.08	340.8		340.6	339.08	+1.5
		2.1		2.1		
+2.6	337.54	340.1		340.1	337.54	+2.6
		2.3		3.2		
+4.0	335.94	339.9		339.0	335.94	+3.1
		3.7		4.5		
+4.2	334.34	338.5		337.7	334.34	+3.4
		5.4		6.5		
+4.1	332.74	336.8		335.7	332.74	+3.0
		7.5		10.1		
+4.2	330.50	334.7		332.1	330.50	+1.6
Spike in pole N.W. Sisson + Castle		6.2				
−1.4	330.0	328.6		6.2		
		15.2				
−9.3	328.86	319.6		328.6	328.86	−0.3

Sisson - Ave. (Cont'd)

Sta	+	H.I.	−	Elev
18	6.77	335.32		328.55
+50				
19				
+50				
N.L. Howard				
20				

Howard St E+W Sisson

Alley East.				
1+50		335.32		
2				
+50				
E.L. Sisson				
3				

Sisson Ave. Howard South

20+86		335.32			
B.M			6.76	328.56	Should be 328.54
21+50					
22					
+50					
23					
T.P. on East					
+50			8.63	326.69	

	West		East		
+or−	Curb Grade	West Pl.	East Pl.	Curb Grade	+or−
		7.6	5.4		
−1.0	328.66	327.7	329.9	328.66	+1.2
		6.3	5.1		
+0.5	328.49	329.0	330.2	328.49	+1.7
		5.5	4.6		
+1.5	328.33	329.8	330.7	328.33	+2.4
		5.1	4.4		
+2.0	328.16	330.2	330.9	328.16	+2.7
		5.3	4.6		
+2.0	328.0	330.0	330.7	328.0	+2.7
	North			South.	
		3.6	4.0		
+2.7	329.0	331.7	331.3	328.5	+2.8
		4.0	4.2		
+2.5	328.66	331.3	331.1	328.16	+2.9
		4.3	4.3		
+1.7	328.33	330.0	330.0	327.83	+2.2
		4.6	5.0		
+2.7	328.0	330.7	330.3	327.5	+2.8
	West		East		
		5.8	5.0		
+2.0	327.5	329.5	330.3	327.5	+2.8
Spike in pole		Alley St.	Howard	West of	Sisson
		6.8	5.8		
+2.1	326.41	328.5	329.5	326.45	+30
		6.1	6.2		
+3.6	325.64	329.2	329.1	325.70	+34
		7.3	6.7		
+3.2	324.86	328.0	328.6	324.95	+3.7
		8.5	7.6		
+2.7	324.09	32.68	327.7	324.20	+3.5
		9.6	8.6		
+2.4	323.31	325.7	326.7	323.45	+3.3

Sisson (Cont'd)

Sta	+	H.I.	−	Elev.
T.P. 24	0.51	327.20		326.69
+50				
25				
+50				
26				
+50				
N.L. Clark				
+80				
27+60 N				
T.P.			10.08	317.12

Clark St.

Aller East					
1+50	6.03	323.15		317.12	Sta. 27+60 W.
2					
+50					
E.L. Sisson					
3					
W.L. Sisson					
0+00					
+50					
Aller West					
+50					

	West		East		Ford Hyatt Grat. 2/22/15
+or-	Grade	West P.I.	East P.I.	Grade	+or-
		2.4	1.7		
+2.3	322.53	324.8	325.5	322.70	+2.8
		3.2	2.8		
+2.2	321.76	324.0	324.7	321.90	+2.9
		4.1	3.4		
+2.1	320.98	323.1	323.8	321.20	+2.6
		4.8	4.4		
+2.2	320.21	322.4	322.8	320.45	+2.3
		5.6	5.6		
+2.2	319.43	321.6	321.6	319.70	+1.9
		7.3	6.3		
+1.2	318.66	319.9	320.9	318.95	+1.9
		7.8	6.9		
+1.2	318.2	319.4	320.3	318.5	+1.8

	North		South		
		2.0	3.7		
+1.7	319.46	321.2	319.5	319.0	+0.5
		2.3	4.2		
+1.8	319.14	320.9	319.0	318.66	+0.3
		2.7	4.6		
+1.7	318.82	320.5	318.6	318.33	+0.3
		2.8	5.0		
+1.9	318.5	320.4	318.2	318.0	+0.2
		3.8	6.0		
+1.2	318.2	319.4	317.2	317.2	0.0
		5.1	6.9		
+1.4	316.66	318.1	316.3	315.59	+0.7
		5.7	8.1		
+2.4	315.13	317.5	315.1	313.97	+1.1
		7.5	9.3		
+2.1	313.6	315.7	313.9	312.35	+1.5

X-Sections Hugo - Centre - Chatham

Sta.	+	H.I.	−	Elev.
B.M.	5.81	315.93		310.12
T.P.			9.08	306.85
SL Center				
34+40	1.88	308.73		
35				
+50				
36				
TP on 36+50 West				
+50			11.44	297.29
37	3.09	300.38		
+50				
TP on 38 East				
+60			12.34	288.04
38	3.13	291.17		
37+50				
37+60				
38+50				
39				
ON 39+50 East				
+50			4.06	287.11
38+50	11.05	298.16		
39				
39+50				

Ford Graf Hyatt 8

West 40' 20' | East 20' | 3/4/15

WPL ℄ ℄ ℄ ℄ +45 EPL.

RP 51' S.E. of S.E. 6' Pt Conklin + Centre

ON RP 100 S.E. + 6' Pt S.E. Hugo + Center

2.6 2.3 +8 2.3 1.6 +20 3.3 +10 1.6 1.3 1.0

306.1 306.4 306.4 307 306.8 307.1 307.4 307.7
4.5 3.8 +7 3.7 3.0 +7 3.7 3.0 2.6

304.2 305.9 305.0 305.7 305.0 305.7 306.1
6.0 5.1 +7 5.7 4.9 +7 5.9 +13 4.3 4.5

302.7 303.0 303.0 303.8 303.8 303.8 304.2
9.1 8.1 +7 +6 7.6 8.2 7.0 +7 6.0 +10 7.2 7.0 6.4

299.6 300.6 301.4 302.3 302.7 301.7 301.5 302.7 303.3
11.7 10.8 +7 10.5 9.8 +7 10.1 +10 9.5 9.9 8.1

97.9 297.9 298.2 299 298.6 299.2 299.8 300.6
9.7 +25 6.1 5.1 +8 4.6 4.3 4.0 +7 4.3 3.4 2.7 1.5

90.7 94.3 95.0 95.9 95.5 96.4 96.4 97.1 97.7 98.7
14.3 10.5 +12 8.1 7.1 5.2

85.5 84.9 92.3 93.3 95.2
13.0 7.8 5.8

FL. 8' Rock Wall
87.4 92.6 94.6
+58 2.9 5.1 10.0 15.0 7.6 +33 4.4 3.1 +50 1.0
92

91.0 88.3 86.1 81.2 76.2 83.6 86.8 88.1 291.2
+70 +50 89
4.3 12.4

86.2 78.8 82.3
4.3 12.7 85

81.7 78.5 82.7
2.9 6.3 11.6 +34 17.8 16.0 +35 11.9 +70 5.8

88.3 84.7 78.6 73.4 73.2 79.3 85.4
0.2 5.4 10.5 +60 16.0 +13 17.7

91.2 85.8 80.6 75.2 73.5
4.0 +12 11.7

287.2 79.5

60 43 47 56
0.2 1.3 5.1
97.5 96.9 93.1 92.6
0.1 3.1

98.1 95.1

25 64

95.7 91.8

Hugo x-Sections Cont'd.

Sta	+	H.I.	−	Elev.	
T Portage E					
40+00		298.16	0.65	297.51	
N.L. Chatham					
TP 40+40	10.34	307.85			
40+00					
39+50					
					SB 304.60
			3.28	304.57	
36					
TP on					
+50					
37					
+50					
TP on					
+60					
38					
37+5					
37+6					
38+					
39					
ON 39+					
+50					
38+5					
39					
39+					

40' W.P.L.	20' ¼	℄	20' ¼	40' E.P.L.	
			1.0	5.5	7.90 2.1
			97.2	92.7	96.1
3.6	3.8	5.3	7.0	10.3	
304.2	304.0	302.5	300.8	297.5	
4.7	5.5	6.9			
303.6	302.3	300.9			
6.9	9.4				
301.4	298.4				

Nail Fence N.W. Sisson & Chatham

± stakes Sisson Steimer South to Klauber

Sta	+	HI	−	Elev	
BM				349.53	
S.L. Steimer					
0+40	2.85	352.38			
1					
+50					
2					
+40					
+90					
3+40					
4					
+50					
5					
+50					
6					
N.L. Klauber					
+40					
B.M.			7.88	344.50	Should be 344.65

Ford Hyatt Graf. 3/4/15

10

±	West Curb Grade	West P.L	East P.L	East Curb Grade	±
Spike Pole NE Steimer Sisson					
		3.1	2.3		
+0.2	349.1	349.3	350.1	349.5	+06
		3.3	2.6		
+0.5	348.64	349.1	349.8	349.0	+0.8
		3.2	1.8		
+1.0	348.26	349.2	350.6	348.59	+2.0
		3.7	1.9		
+09	347.87	348.7	350.5	348.17	+2.3
		4.	2.5		
+0.8	347.56	348.3	349.9	347.84	+2.1
		4.8	3.3		
+0.5	347.12	347.6	349.1	347.35	+1.8
		5.9	4.8		
-0.1	346.58	346.5	347.6	346.71	+0.9
		6.6	6.2		
00	345.86	345.8	346.2	345.86	+04
		7.6	7.3		
-04	345.26	344.8	345.1	345.15	00
		7.9	7.9		
-0.1	344.66	344.5	344.5	344.45	00
		8.4	8.7		
00	344.06	344.0	343.7	343.74	00
		8.6	9.1		
+04	343.46	343.8	343.3	343.04	+0.2
		8.5	9.9		
+09	343.0	343.9	342.5	342.50	00
Spike in pole S.W. Sisson & Klauber					

Ford
Graf
Hyatt
3/4/15

	I Klauber E+W of Sisson					North		South		
Sta	+	H.I.	−	Elev.		Grade	N.P.L.	S.P.L.	Grade	
B.M.				344.62		Spike in pole S.W. Klauber + Sisson				
Alley E. 1+50	4.73	349.35			+0.6	343.00	5.8 343.6	8.6 340.8	342.5	− 1.7
2					+0.2	342.83	6.4 343.0	8.9 340.5	342.33	− 1.8
+50					−0.3	342.67	7.0 342.4	8.7 340.7	342.17	− 1.5
EL. Sisson 3					00	342.5	6.9 342.5	6.4 343.0	342.0	+1.0
W.L. Sisson 0+00					+1.0	343.0	5.4 344.0	4.6 344.8	342.50	+ 2.3
0+50					+2.0	342.45	4.9 344.5	4.6 344.8	341.91	+ 2.9
1					+3.0	341.90	4.5 344.9	4.3 345.1	341.33	+ 3.8
Alley West +50					+4.2	341.35	3.9 345.5	4.8 344.6	340.75	+ 3.9

Curb States Center Bet Hugo & Conklin

Sta	+	HI	−	Elev
B.M. N.L. Center				310.12
138' W of N.L. Conklin	5.46	315.58	7.26	308.32
S.L. Center				
138' " " "				307.83
Curb State & Conklin N.W. Center				310.8
	2.78	313.58	5.75	307.83

Cutter F/L's Center E & W of Sisson

				306.85	This Book Page 8
T.P. E. Alley East of Sisson					
1+50	1.08	307.93			
2					
+50 E.L. Sisson					
3					
W.L. Sisson					
0+00					
1+50					
T.P. Rock			12.40	295.53	
T.P.	1.06	296.59	13.05	283.54	
	4.18	287.72			

March 1913 Ford Hyatt Engr

On RP 50' SE of 6' Pt SE Conklin & Center

	North Curb Grade	N.P.L.	S.P.L.	South Curb Grade	
	ON RP 100' SE of SE 6' Pt Hugo & Center				
		2.4	4.1		
+2.8	302.75	305.5	303.8	302.1	+1.7
		3.2	4.8		
+2.7	302.00	304.7	303.1	301.34	+1.8
		5.0' back 4.3	3.0' back 5.4		
+2.4	301.25	303.6	302.5	300.57	+2.00
		7.3	8.1		
+01	300.5	300.6	299.8	299.80	00
		8.1			
−02	300.00	299.8		299.4	
			7.0		
			310.9	301.2	−0.3

Top Base Board Fence 17+60 N.L. Center

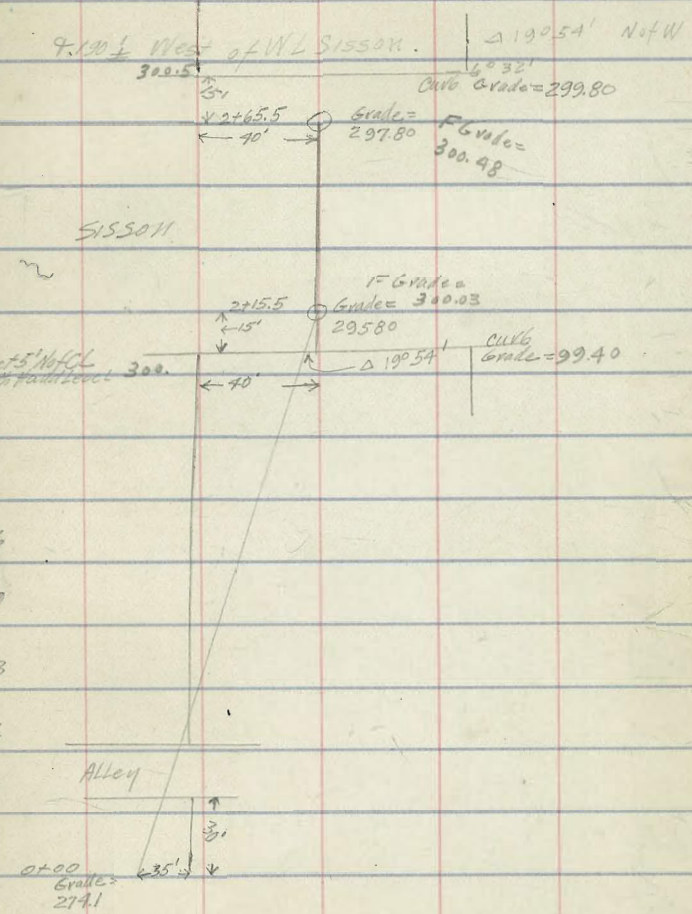
29.7 out	301.0	6.8	6.8	
−18.8	−20.1	280.9	280.9	

Culvert across Sisson & Center

Ford Hyatt P.M. Graf Mar 5-1915

Sta	+	HI	−	Elev	
ON Grade Stake SE Center Sisson				299.80	
ON Stake ℄ Culvert ℄ Center 15' E of WL Sisson	4.40	304.20	4.86	299.34	Grade 295.80 + 3.54
Stake 5' N of ℄ " "			5.05	299.15	+ 3.35
				299.80	
ON Stake ℄ Culvert ℄ Center 15' W of EL Sisson	4.68	304.48	4.68		Grade 297.80 + 2.0
Stake 5' N of ℄ " "			4.54	299.94	+ 2.14
					Elev 274.1
0+00			5.12		0.0
0+20					−1.1
0+50					+0.6
0+75					0.0
1+00					0.0
1+25					+2.4
1+50					+4.4
1+75					+6.8
Catch Basin West 2+15.5 CB					Grade 295.80 + 3.54
Catch Basin East 2+65.5 CB					Grade 297.80 + 2.14

0.0 is NW Outlet Pipe Line is 35' N of WL Center



Stakes set 5' N of CL Levels with Hand Level

0.0	
—	
+2.6	
+2.0	
+0.3	
+2.2	
+4.8	
+7.0	

Ford
Graf
Hyatt
Mar 23, 1915

± Levels Sisson - Steiner North

Sta.	+	H.I.	-	Elev.		West +or-	West Grade	West W.P.L.	East F.P.L.	East Grade	East +or-
B.M.				349.17	Book 63 - P. 23	3/4" iron pipe 10.0' N.W. of N.W. Sisson + Steiner					
								10.5	9.2		
0+40	10.04	359.21				-0.8	349.5	348.7	350.0	349.9	+0.1
								9.5	8.6		
1						-0.7	350.38	349.7	350.6	350.71	-0.1
								8.9	7.8		
+50						-0.8	351.11	350.3	351.4	351.38	0.00
								7.4	6.6		
2						0.00	351.85	351.8	352.6	352.06	+0.6
								6.2	5.9		
+50						+0.4	352.58	353.0	353.3	352.73	+0.6
								5.3	4.8		
3						+0.6	353.32	353.9	354.4	353.41	+1.0
								4.9	4.2		
+50						+0.3	354.05	354.3	355.0	354.08	+0.9
								3.9	3.4		
4						+0.5	354.79	355.3	355.8	354.76	+1.0
								3.3	3.1		
+50						+0.4	355.52	355.9	356.1	355.43	+0.7
								2.4	2.6		
5						+0.5	356.26	356.8	356.6	356.11	+0.5
								1.9	2.5		
+50						+0.3	356.99	357.3	356.7	356.78	-0.1
								1.6	1.8		
6						-0.1	357.73	357.6	357.4	357.46	-0.1
								0.8	1.2		
S.L. Anna. T. Ron East. +40			1.23	357.98		+0.1	358.3	358.4	358.0	358.0	0.00
								9.2	9.3		
N.L. Anna. T.R.											
6+80	10.08	368.06				+0.3	358.6	358.9	358.8	358.3	+0.5
								7.8	8.5		
7+50						+1.0	359.26	360.3	359.6	358.96	+0.6
								6.7	7.0		
8						+1.7	359.73	361.4	361.1	359.43	+1.7
								6.1	6.5		
+50						+1.8	360.20	362.0	361.6	359.90	+1.7

± Levels Sisson (Cont'd.)

Sta	+	H.I.	−	Elev	+or−	West Grade	West P.L.	East P.L.	East Grade	+or−
9		368.06			+1.6	360.67	5.8 362.3	6.1 362.0	360.37	+1.6
+50					+2.0	361.14	5.0 363.1	5.6 362.5	360.84	+1.7
10					+1.7	361.61	4.8 363.3	4.6 363.5	361.31	+2.2
+50					+1.7	362.08	4.4 363.7	4.3 363.8	361.78	+2.0
11					+1.6	362.55	4.0 364.1	4.3 363.8	362.25	+1.6
+50					+1.7	363.02	3.4 364.7	3.9 364.2	362.72	+1.5
12					+1.1	363.49	3.5 364.6	3.2 364.9	363.19	+1.7
S.L. Orange T.P. on East +53.5			3.60	364.46	+1.0	364.0	3.1 365.0	3.6 364.5	363.7	+0.8
N.L. Orange 13+33.5	6.93	371.39			+1.3	364.5	5.6 365.8	6.0 365.4	364.2	+1.2
14					+1.0	364.65	5.7 365.7	6.2 365.2	364.35	+0.9
+50					+1.4	364.76	5.2 366.2	5.6 365.8	364.46	+1.3
15					+1.7	364.88	4.8 366.6	5.5 365.9	364.58	+1.3
+50					+1.0	364.99	5.4 366.0	5.1 366.3	364.69	+1.6
16					+1.6	365.11	4.7 366.7	5.2 366.2	364.81	+1.4
+50					+1.4	365.22	4.8 366.6	5.1 366.3	364.92	+1.4
17					+1.1	365.34	5.0 366.4	4.5 366.9	365.04	+1.9
+50					+1.0	365.45	5.0 366.4	5.3 366.1	365.15	+1.0

I Levels Sisson (Cont'd)

Sta	+	Hi	−	Elev
18		371.39		
+50				
19				
S.C. Cajon T. Panhill 140.5			4.88	366.51
	4.45	370.96		
				(366.65)
B.M.			4.32	366.64 Book 72-P.2

	West		East		
+or-	Grade	West PL	East PL	Grade	+or-
		~4.8	5.2		
+1.0	365.57	366.6	366.2	365.27	+0.9
		4.9	5.0		
+0.8	365.68	366.5	366.4	365.38	+1.0
		3.5	5.2		
+2.1	365.79	367.9	366.2	365.49	+0.7
		4.9	4.4		
+0.6	365.9	366.5	367.0	365.6	+1.4

Spike in pole S.E. Cajon + fourth.

± Levels Orange E & W of Sisson

Sta	+	H.I.	−	Elev
				364.46 Book 70 P. 15
℄ Aller East				
1+32.5	5.97	370.43		
2				
E.L. Sisson				
+66				
W.L. Sisson				
0+00				
+50				
1				
+50				
2				
E.L. Hextorf.				
+48				
1+50				
2				
+50				
E.L. Sisson				
3+00				
W.L. Sisson				
0+00				

		North P.L. Grade	+ or −
T.P.	S.E. Cor. Orange & Sisson		
		5.4	
+1.0	364.05	365.0	
		5.2	
+1.1	364.12	365.2	
		5.1	
+1.1	364.20	365.3	
		4.6	
+1.3	364.75	365.8	
		4.6	
+1.1	364.68	365.8	
		4.6	
+0.9	364.86	365.8	
		4.5	
+0.9	365.04	365.9	
		4.5	
+0.7	365.22	365.9	
		4.8	
+0.2	365.4	365.6	
		South P.L.	
		6.1	
	364.3	363.6	+0.7
		5.6	
	364.8	363.63	+1.2
		5.6	
	364.8	363.67	+1.1
		6.0	
	364.4	363.7	+0.7
		5.5	
	364.9	364.0	+0.9

± Levels Orange (Cont'd)

Sta	+	H.I.	−	Elev
1+50		370.43		
1				
℄ Aller West				
+50				

± Levels Anna E of W of Sisson

T.P.				357.98 Bookto-P14
℄ Aller East				
1+58	5.93	363.91		
2				
+50				
E.L. Sissott				
3				
W.L. Sisson				
1+00				
+50				
1				
℄ Aller West				
+50				

North +or−	Grade	North P.L.	South P.L.	Grade	South +or−
			364.9 (5.3)	364.24	+0.7
			365.1 (5.2)	364.47	+0.6
		2	365.2	364.7	+0.5

S.E. Cor Anna + Sissott

		6.2	6.7		Grade Hyatt Mar 24 '65
0.00	357.65	357.7 (6.1)	357.2 (6.7)	357.35	−0.2
−0.1	357.87	357.8 (5.9)	357.2 (6.6)	357.57	−0.4
−0.1	358.09	358.0 (5.2)	357.3 (5.9)	357.79	−0.5
+0.4	358.3	358.7	358.0	358.0	0.00
		5.1	5.5		
+0.2	358.6	358.8 (4.4)	358.4 (5.2)	358.3	+0.1
+0.7	358.78	359.5 (4.4)	358.7 (4.7)	358.47	+0.2
+0.5	358.96	359.5 (4.0)	359.2 (4.5)	358.64	+0.6
+0.9	359.15	359.9	359.4	358.8	+0.6

Curb Stakes Sisson

Sta	+	HI	−	Elev
B.M. El Sisson				349.17
250' S of SL Steiner W.L. Sisson	5.44	354.61	7.26	347.35
" "			7.49	347.12
B.M.				349.62
NE Sisson Klauber	2.52	347.14	4.64	342.50
SE "			5.14	342.00
SW "			4.64	342.50
NW "			4.14	343.00
				344.62
SW Klauber Sisson	2.34	346.96	4.46	342.50
NW "			3.96	343.00
SE "			4.96	342.00
137.6' E of E.L. Sisson SL Klauber			4.50	342.46
NE Klauber Sisson			4.46	342.50
B.M.				344.62
300' S of S.L. Klauber E.L. Sisson W.L. Sisson	2.65	347.27	7.53	339.74
360' S of S.L. Klauber			7.51	339.76

Ford
Grat
Hyatt
8-2-15

19

Pipe NW Sisson + Steiner

Nail Pole SW Klauber + Sisson

Nail Pole SW Klauber + Sisson

Hyatt Ford
Grat
8/3/15

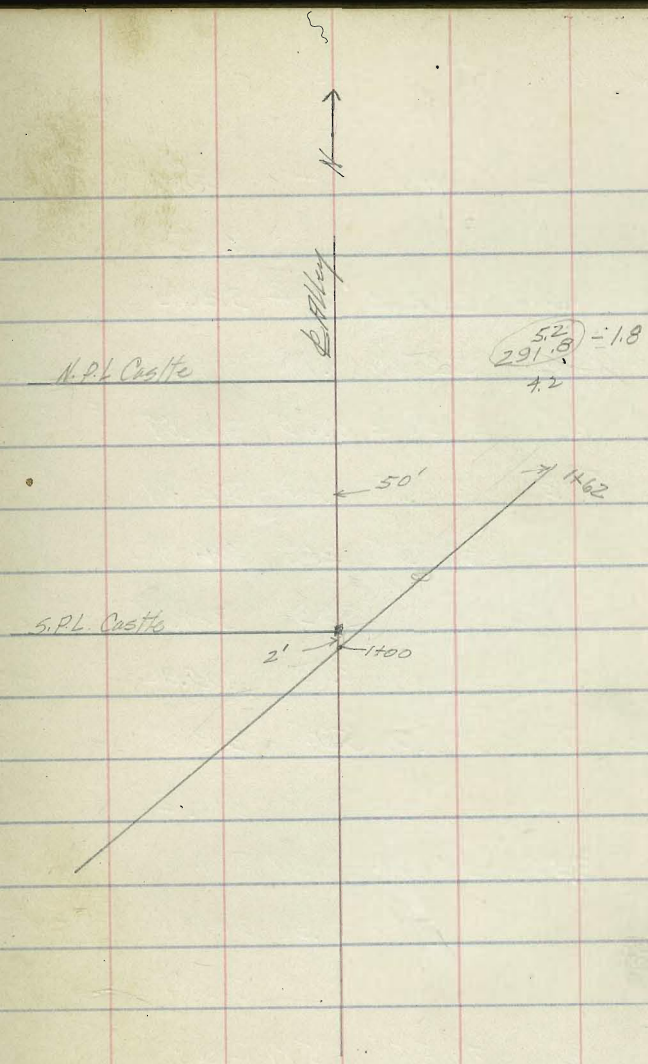
Record of Slope stakes on Castle between Hugo & Sisson

Sta.	+	H.I	−	Elev.
1+50				
+60				
+85				
2+30				
+45				
1+50				
1+50				
1+50				

Ford Hrat Grat 5/19/15 Recorded by A.H.G.

Fill	To South of P.L Dist. out	
-30.7	46.0'	
-32.7	49.0'	
-35.2	52.9'	
-40.0	60.0'	
-40.9	61.5'	
	15'S of ℄ Castle	Slopes to East of ℄ Alley Bet Sisson & Hugo
-31.7	47.6'	
	N.L. Castle	
-34.4	51.0'	
	15'N of ℄ Castle	
-33.2	50.0'	

Sta	+	HI	−	Elev	
On Fill stake Bet Sisson & Nugo 1+50 SL Castle				290.80	
0+00 - S End Pipe	6.24	297.04	8.8	288.2	+0.7 287.50
0+25			9.1	287.9	−0.5 88.35
0+50			7.8	289.2	00 89.20
0+75			7.2	289.8	−0.3 90.05
1+00			6.3	290.7	−0.2 90.90
1+25			5.2	291.8	00 91.75
1+50			3.7	293.3	+0.7 92.60
1+62 NE End pipe			3.4	293.6	+0.6 293.00



May 21
Ford
Hyatt
Graf

Curb stakes Sisson Ave

Sta	+	HI	−	Elev	
BM				328.54	Nail Pole SL Howard Alley West of Sisson.
T.P.	4.11	332.65	8.62	324.03	
T.P.	1.66	325.69	7.77	317.92	O Top 1" stake 10' SE of SE Clark & Sisson
T.P.	1.10	319.02	8.65	310.37	
T.P.	1.13	311.50	8.69	302.81	O Top 1" stake 10' NE of NE Center & Sisson
	5.84	308.65	2.63	306.02	On R.R. 25' East of E 6' Line Bet Center & Chatham
			3.99	304.66	
			3.63	305.02	On O Top 1" stake 10' NE of NE. Chatham & Sisson
NE & NW Chatham Sisson	3.89	308.91	5.91	303.00	
				306.02	
E.L. Sisson 38+00	3.30	309.32	4.47	304.85	
WL Sisson 38+00			4.91	304.41	
				302.81	
SE Sisson Center	2.70	305.51	5.71	299.80	
NE " "			5.01	300.50	
NW " "			5.51	300.00	
SW " "			6.11	299.40	
NL Center ℄ Alley West of Sisson			4.51	301.0	Finish Stake

Curb Stakes Center E of Sissm

Ford Hyatt Swat May 21-1915

Sta	+	HI	−	Elev
T.P.				312.81
NE Center Sissm	2.73	305.54	5.04	300.50
NL Center 137.55 E of E.L. Sissm			2.97	302.57
Center SE Sissm			5.74	299.80
				312.81
S.L. Center 137.55 E of E.L. Sissm	4.93	307.74	5.83	301.91
T.P.				317.92
SE Sissm Clark	5.29	323.21	5.21	318.00
SW "			6.01	317.20

O 1" Stake 10' NE of NE Center Sissm

Curb stakes Sisson (Howard - Clark)

Sta	+	H.I	-	Elev.
B.M.				329.54
	5.00	333.54		
S.E. Howard Sisson			6.04	327.5
B.M.				317.92
	5.21	323.13		
N.E. Clark Sisson			4.63	318.5
N.W. Clark Sisson			4.93	318.2
Curb stakes on Clark St.				
B.M.				317.92
	5.32	323.24		
S.E. Clark Sisson			5.24	318.0
N.E. Clark Sisson			4.74	318.5
S.W. Clark Sisson			6.04	317.2
N.W. Clark Sisson			5.04	318.2

Graf Hyatt 4/3/15

24

Nail pole S.L. Howard, Aller Lot Sisson + Daler

On top 1" stake 10' S.E. of S.E. Clark + Sisson Graf, Hyatt 4/4/15

On top 1" stake 10' S.E. of S.E. Clark + Sisson

Cut & Fill Stakes Castle West of Sisson

June 16-1915
Ford
Hyatt
Graf

Sta	+	HI	−	Elev.
B.M.				344.62
	2.60	347.22		
T.P. on Rock			8.96	338.26
T.P. W.L. Sisson	0.51	338.77	8.19	330.58
0+00	5.76	336.34		
+50				
1				
+50				
2				
+50 E.L. Daley				
3				
Castle N.W. Daley			7.5	328.8

Spike Pole SW Klauber & Sisson

Spike in pole S.W. Castle & Sisson

+or−	Grade	N.P.L	S.P.L	Grade	+or−
		1.4	5.7		
+4.4	330.5	334.9	330.6	330.0	+0.6
		5.4	5.8		
+0.6	330.33	330.9	330.5	329.83	+0.7
		5.2	5.7		
+0.9	330.16	331.1	330.6	329.66	+0.9
		4.8	5.8		
+1.5	330.0	331.5	330.5	329.5	+1.0
		3.0	4.9		
+3.5	329.83	333.3	331.4	329.33	+2.1
		4.1	6.5		
+2.5	329.66	332.2	329.8	329.16	+0.6
		4.7	7.6		
+2.1	329.5	331.6	328.7	329.0	−0.3

Curb Stakes Sisson Howard to Clark -

Sta	+	HI	−	Elev.
B.M.				328.54
SE Sisson Howard	4.24	332.78	5.28	327.50
SW				327.50.
T.P.				317.92
S.L. Clark 137.37 E of E.L. Sisson	531	323.23	4.31	318.92
138' W of W.L. Sisson S. Clark			10.79	312.74
T.P.				317.92
N.L. Clark 137.37 E of E.L. Sisson	5.74	323.66	4.29	319.37
Curb Stake SW Sisson Clark				317.20
N.L. Clark. 138' W of W.L. Sisson	0.55	317.75	3.78	313.97
				~~328.54~~
B.M.				328.54
E.L. Sisson 2.60' N of N. Howard	4.46	333.00	4.13	328.87
NE Sisson Howard			5.00	328.00
N.L. Howard 137.15 E of E.L. Sisson				328.92

Ford Hyatt Graf June 19-1915

26

Nail Pole S.L. Howard Alley West Sisson

on O Top stake SE of SE Clark & Sisson

June 23-16
Ford
Hyatt
Graf.

Julng 2-1915
Ford - Graf - Hyatt

Curb Stakes Sisson Steiner North

Sta	+	H I	−	Elev	
B.M.				349.17	Iron pipe N.W. Sisson + Steiner
NE Sisson Steiner	5.91	354.58	4.68	349.90	
B.M.				349.17	Iron pipe N.W. Sisson + Steiner
T.P. Rock	8.81	357.98	1.39	356.59	
B.M.	5.27	361.86	2.56	359.30	Nail pole N.E. Sisson + Anna
B.M.	8.36	367.66	2.51	365.15 (S.B. 366.27)	Nail pole N.E. Orange 40' E of E.L. Sisson
B.M.	4.76	369.91	3.60	366.31	Nail pole N.E. Paxmore + Orange
B.M.				359.30	Nail pole N.E. Sisson + Anna
S.E. Sisson Anna	2.64	361.94	✓ 3.94	358.0	
N.E. Sisson Anna			✓ 3.64	358.3	
S.W. Sisson Anna			✓ 3.64	358.3	
N.W. Sisson Anna			3.34	358.6	
B.M.				365.15	Nail pole N.E. Orange 40' E of Sisson
S.E. Sisson Orange	3.35	368.50	4.80	363.7	
S.W. Sisson Orange			4.50	364.0	

Curb Stakes Anna E & W of Sisson -

Sta	+	H I	-	Elev	
T.P.				359.30	
SE Anna Sisson	3.82	363.12	5.12	358.00	Replaced
T.P.				359.30	
SE Anna Sisson	3.90	363.20	5.20	358.00	
S.L. Anna 149.61' E of Sisson			5.85	357.35	
N.L. Anna " "				357.65	
				358.00	
N.E. Anna Sisson	4.77	362.77	4.47	358.3	

Grade pole Aller bet. Sisson & Hugo S.L. Castle

B.M.				330.58	
Aller bet. Sisson & Hugo S.L. Castle	3.75	334.33	8.33	326.0	Rod. set. 6.33 Marked. +2.0

Ford July 12
Graf
Hyatt 1915

28

Nail Pole NE Sisson Anna -

Curb stake S.E. Anna & Sisson

Graf
Hyatt
7/13/15

Curb Stakes 4th (Sisson)
El Capitan Orange

Sta	+	HI	−	Elev	
B.M.				366.65	
4th SW El Cap'n	5.16	371.81	✓ 5.91	365.90	
SE "			6.21	365.60	
Top H NW SW			5.72	366.09	
Top stake for H Wall SW			5.70	366.11	
Cut Stake SE.			4.85	361.0	✓ +1.4
B.M.				365.15	
4th NE Orange	3.31	368.52	✓ 4.72	364.20	
SE.			4.82	363.70	
SW			452	364.00	
BM				365.15	
Reset Sisson SE Orange	3.42	368.57	✓ 4.87	363.70	
SW "			✓ 457	364.00	
BM				365.15	
4th N.W. Orange	3.83	368.98	4.48	364.50	

Ford-Hyatt
Graf 7-27-15

Spike Pole SE 4th & Capitan

Nail Pole NE 40'E NE Orange Sisson

Sta	+	HI	−	Elev	
BM Slovaugh				365.15	
137.74 E of EL Sisson SL Orange	3.20	368.35	4.74	363.61	
NL Orange 123 E of EL 4th	3.53	368.68	4.61	364.07	Ford Hyatt Graf Aug 4-1915
	Curb Stakes Sisson				
B. M.				330.58	
NE Sisson Castle	5.78	336.36	5.86	330.50	
BM.				330.58	Aug 10-1915 Ford-Hyatt Graf
NW Sisson Castle	5.29	335.87	5.37	330.50	
BM				330.58	
SE+SW Castle Sisson	4.69	335.27	5.27	330.00	Nail Pole SW Sisson Castle Aug 17-15 Hyatt Graf
BM				330.58	
NE Sisson Castle Return	5.01	335.59	5.09	330.50	

Aug 28
Leckey
Hyatt
Graf

21

Sisson – Castle ar. East

B.M.				330.58	S.W. Cor. Sisson Klauber
	5.08	335.68			
N.E Curb			5.19	30.49	
N. ℄ alley			8.43	327.25	℄ alley East of Sisson North
S ℄ alley			8.68	327.00	" " " " " South
Sisson Castle S.E. Cor.			5.68	330.0	

Hugo Ave
X Sections & ± Steiner South

Sta	+	H.I	−	Elev
B.M.				352.00
SL Steiner				
0+40	1.97	353.97		
0+50				
1				
+50				
2				
+50				
3				
+50				
4				
+50				
5				
+50				
6				
NL Klauber				
+40				
New BM			11.11	342.86
	Klauber			
SL Klauber				
7+20	1.17	344.63		

Finished Dec 3 – Hyatt West 6 ft East of Book

48 Hyatt Grad
Oct 22-1915

22

± Grade	West 40' PL	20' ¼	℄	20' ¼	East 40' PL	± Grade
	Brass Plug NW Hugo & Steiner					
	+2.6 2.7 351.5	2.4	2.1 351.9	2.3 351.7	+2.7 2.7 351.90	
351.40		351.6				351.70
	+2.6 2.6 351.4	+2.5 2.8 351.2	2.9 351.1	2.7 351.3	2.7 +2.5 2.5 2.6 351.5	351.63
	2.3 351.7	+2.5 2.9 351.1	+2.5 3.1 350.9	3.2 350.8	3.3 350.7	3.1 350.9	2.7 351.6	
+0.6	351.10							351.31 +0.3
	3.8 350.7	3.3 350.7		3.3 350.7	3.2 350.8	3.1 350.9	2.7 351.3	
−0.2	350.85							350.98 +0.3
	3.1 350.9			3.4 350.6	3.5 350.5	3.2 350.8	2.9 351.1	
+0.3	350.60							350.66 +0.4
	3.6 350.4	2.9 3.4 350.6		2.4 4.1 349.9	3.6 350.4	3.7 350.3	3.6 350.4	3.7 350.3	
+0.2	350.23							350.22 +0.1
	4.0 350.0			4.3 349.7	4.3 349.7	4.3 349.7	4.2 349.8	
+0.6	349.37							349.30 +0.5
	4.3 349.7			4.6 349.4	4.7 349.3	4.7 349.3	4.7 349.3	
+1.2	348.51							348.37 +0.9
	5.3 348.7			5.6 348.4	5.3 348.7	5.0 349.0	5.2 348.8	
+1.0	347.65							347.45 +1.3
	5.5 348.5			5.9 348.1	5.7 348.3	5.8 348.2	5.9 348.1	
+1.7	346.79							346.52 +1.6
	6.4 347.6			6.6 347.4	6.5 347.5	6.5 347.5	6.6 347.4	
+1.7	345.93							345.60 +1.8
	6.6 347.4			7.1 346.9	7.1 346.9	6.6 347.4	7.3 346.7	
+2.3	345.07							344.67 +2.0
	7.2 346.8			7.5 346.5	7.7 346.3	7.4 346.6	8.1 345.9	
+2.6	344.21							343.75 +2.1
	7.9 346.1			8.1 345.9	8.2 345.8	8.3 345.7	8.6 345.4	
+2.6	343.5							343.0 +2.4

Pipe 27' SE 4 6x6' SE of Klauber & Hugo

		OA			1.1	
+1.2	343.0	344.2			343.5	345.5 +1.0

± 11+00 Dec 3 - Hyatt West Gust East 40-Bo.R

Sta	+	HI	−	Elev	
7+50		344.63			
8					
+50					
9					
+50					
10					
+50					
11					
New B.M.			9.28	335.35	ON 11+00
T.P.			12.59	332.04	West
11+50	0.44	332.48	12.64	319.84	
12+00	0.07	319.91	12.12	307.79	
12+00	0.25	308.04			
+50			~~0.31~~	307.73	
N.L Castle 13+20	12.02	319.75	1.05	318.70	
NL Castle 13+20	12.15	330.85			
T.P			1.97	328.88 (335.35)	Should be.
B.M.	10.28	339.16	3.84	335.32	
	2.24	337.59			

± Grade	West PL	℄	East PL	± Grade
	0.9		1.8	
+1.7	341.95 343.7 (2.3)		342.8 (2.5)	341.47 +1.3
+2.1	340.20 342.3 (3.3)		342.1 (3.4)	339.76 +2.3
+2.8	338.45 341.3 (4.9)		341.2 (4.7)	338.05 +3.1
+3.0	336.70 339.7 (6.5)		339.9 (5.6)	336.34 +3.6
+3.1	334.95 338.1 (7.8)		339.0 (6.8)	334.63 +4.3
+3.6	333.20 336.8 (9.6)		337.8 (9.0)	332.92 +4.9
+3.1	331.85 335.0 (12.6)		335.6 (11.9)	331.72 +3.9
+1.2	330.77 332.0		332.7	330.85 +1.8

Pipe 10' SE Blk Car Castle Hargo

	6.2		11.6	
-3.4	329.68 326.3 (3.4)		320.9	329.97 -9.1
-12.1 +0.5	328.60 329.1 (316.5)			
			5.4	
			302.6 (7.6)	329.10 -26.5
	7.6			
-27.1	327.51 300.4 (9.7)		300.4	328.22 -27.8
-16.0	326.00 310.0			
			6.0	
			324.8	327.0 -2.2

At Tunnel May 31-1916 Copied for Annual Rpt.

Sta	+	HI	−	Elev		± Grade		West WPL	¼	℄	¼	East EPL	± Grade	
SL Castle 14+00		337.59				+5.2	327.0	5.4 332.2	4.0 333.6	3.7 333.9	3.4 334.2	2.5 335.1	328.0	+7.1
+50						+5.1	327.66	4.8 332.8	4.1 333.5	3.8 333.8	3.3 334.3	3.1 334.5	328.50	+6.0
15						+3.8	328.33	5.5 332.1	4.8 332.8	4.3 333.3	4.1 333.5	3.1 334.5	329.00	+5.5
+50						+4.4	329.0	4.2 333.4	3.8 333.8	3.3 334.3	3.2 334.4	3.2 334.5	329.50	+5.0
16						+4.3	329.66	3.6 334.0	3.6 334.0	3.6 334.0	3.0 334.6	2.6 335.0	330.00	+5.0
+50						+3.7	330.23	3.7 333.9	3.7 333.9	3.4 334.2	3.1 334.5	2.6 335.0	330.42	+4.6
17						+2.0	330.58	5.0 332.6	4.8 332.8	4.9 332.7	4.6 333.0	4.3 333.3	330.67	+2.6
+50						+1.7	330.73	5.2 332.4	5.1 332.5	5.2 332.4	5.3 332.3	5.0 332.1	330.75	+1.3
18						+1.6	330.66	5.3 332.3	5.6 332.0	5.3 332.3	5.8 331.8	5.3 332.3	330.66	+1.6
+50						+1.6	330.50	5.5 332.1	5.3 332.3	5.4 332.2	5.2 332.4	5.4 332.2	330.50	+1.7
19						+2.1	330.33	5.2 332.4	5.4 332.2	5.4 332.2	5.4 332.2	5.6 332.0	330.33	+1.7
+50						+1.7	330.16	5.7 331.9	5.6 332.0	5.2 332.4	5.6 332.0	5.7 331.9	330.16	+1.7
NL Howard 20						+1.7	330.0	5.9 331.7	6.0 331.6	5.8 331.8	6.2 331.4	6.0 331.6	330.0	+1.6
New BM			5.93	331.66				Pipe	NE		Howard Hugo			
Check 0.08 off	4.65	336.31	8.73	SB 327.50 327.58	Curb stake Howard SE 51.55									

Sta	+	HI	−	Elev
BM				331.66
SL Howard				
20+80	3.59	335.25		
21+50				
22				
+50				
23				
+50			6.82	328.43
24	2.48	330.91		
+50				
25				
+50				
26				
+50				
NE Clark				
+80				
New				
B.M.			10.34	320.57
				317.92 SB
Check B.M.	4.77	325.34	7.39	317.95

Sketch showing Howard & Clark Intersection Apr 1 & 2 1916

SE Clark & Division

± Grade

+1.7 329.5

+2.5 328.44

+2.7 327.69

+3.3 326.93

+3.2 326.17

+2.9 325.41

+2.9 324.65

+2.8 323.89

+2.6 323.13

+2.2 322.37

+2.2 321.61

+2.0 320.85

+1.6 320.40

± Stks marked Jan 14-15

West ← → East

WPL	¼	℄	¾	EPL	± Grade
Pipe NE Howard & Hugo					
4.1 +2.9 3.5 331.2	3.7 331.8 331.6	4.2 331.1	4.2 331.1	3.6 331.7	329.5 +2.2
4.4 330.9	4.3 331.0	4.4 330.9	4.4 330.9	4.1 331.2	328.49 +2.7
4.9 330.4	4.7 330.6	4.5 330.8	4.6 330.7	4.7 330.6	327.76 +2.8
5.1 330.2	5.4 329.9	5.4 329.9	5.4 329.9	5.2 330.1	327.04 +3.1
5.9 329.4	6.3 329.0	6.1 329.2	6.0 329.3	6.2 329.1	326.31 +2.8
7.0 328.3	6.8 328.5	6.7 328.6	6.8 328.5	7.1 328.2	325.59 +2.6
3.3 327.6	3.4 3275	3.3 327.6	3.1 327.8	3.2 327.7	324.86 +2.8
4.2 326.7	4.1 326.8	4.1 326.8	4.1 326.8	4.1 326.8	234.14 +2.7
5.2 325.7	4.9 326.0	5.2 325.7	5.0 325.9	4.9 326.0	323.41 +2.6
6.3 324.6	6.1 324.8	6.1 324.8	6.1 324.8	6.0 324.9	322.69 +2.2
7.1 323.8	7.3 323.6	7.1 323.8	6.9 324.0	6.9 324.6	321.96 +2.0
8.0 322.9	8.2 322.7	8.3 322.6	8.1 322.8	8.2 322.7	321.24 +1.5
8.9 322.0	8.9 322.0	8.8 322.1	8.9 322.0	8.6 322.3	320.8 +1.5
Pipe SE Clark Hugo					

± Stakes marked Jan 14-15 H.A.K.

Sta	+	HI	−	Elev	
B.M.				320.57	
27+60	2.14	322.71			
28					
+50					
29					
+50					
30					
+50				314.65	TP on 30+30 West
31	3.08	317.73			
+50					
32					
+50					
33					
NL Center +60					
New BM			6.71	311.02	
New BM	0.24	311.26	8.76	302.50	
			4.31	306.95	

West → East

± Grade	W.P.L	20' ¼	20' ¼	40' EPL	± Grade
	Pipe	SE	Clark & Hugo		
+0.4 320.0	2.3 320.4	2.5 320.2	2.1 320.6	2.1 320.6	2.0 320.7	320.4 +0.3
+0.5 319.0	3.2 319.5	2.9 319.8	2.7 320.0	2.8 319.9	2.8 319.9	319.4 +0.5
+1.8 317.75	4.1 319.6	4.2 319.5	3.8 317.9	4.0 318.7	4.0 318.7	318.15 +0.5
+1.1 316.50	5.1 317.6	4.8 317.9	4.9 317.5	4.7 318.0	4.8 317.9	316.90 +1.0
+1.3 315.25	6.1 316.6	6.0 316.7	5.8 316.9	5.8 316.9	5.7 317.0	315.65 +1.3
+1.6 314.00	7.1 315.6	7.0 315.7	6.6 316.1	6.7 316.0	6.3 316.4	314.40 +2.0
+1.8 312.75	8.1 314.6	7.9 314.8	7.6 315.1	7.4 315.3	7.3 315.4	313.15 +2.2
+2.3 311.50	3.9 313.8	3.7 314.0	3.5 314.2	3.5 314.2	3.1 314.6	311.90 +2.7
+2.5 310.25	4.9 312.8	4.8 312.9	4.4 313.3	4.4 313.3	4.3 313.4	310.65 +2.7
+3.1 309.00	5.6 312.1	5.8 311.9	5.7 312.0	5.3 312.4	4.4 313.3	309.40 +3.9
+2.5 307.75	7.4 310.3	6.9 310.8	6.4 311.3	6.0 311.7	6.1 311.6	308.15 +3.4
+2.9 306.50	8.3 309.4	7.9 309.8	7.5 310.2	7.3 310.4	6.9 310.8	306.90 +3.9
+3.3 305.0	9.4 308.3	9.0 308.7	8.6 309.1	8.0 309.7	8.2 309.5	305.40 +4.1
	Pipe 52' NE of Center & Hugo					
	Pipe 5' E of SE Chat Mill & Hugo ON SL Chat					

Oct 23-1915
Fond: Hyatt, Graf

X Sections Center
E & W of Hugo

Sta	+	H I	−	Elev		North			*	South				
						N.P.L.		20' 1/4	℄	20' 1/4		S.P.L.		
BM				311.02		Pipe 52' NE of NE 6X6 Hugo & Center								
1+48' W of Centerline	2.17	313.19			308.14	4.1 309.1	+26' 5.2 308.0	4.8 308.4	4.6 308.6	5.3 307.9	+26' 5.6 307.6	+39' 5.0 308.2	3.0 310.2	307.64
1+50					+2.7 308.1	1.8 311.4	+39' 3.4 309.8	3.9 309.3	4.4 308.8	4.4 308.8		+37' 3.8 309.4	3.0 310.2	+2.6 307.60
1+62					307.88	1.8 311.4	+37 2.8 310.4	+32' 2.0 311.2	2.1 311.1	+8' 2.0 311.2	2.9 310.3	3.7 309.5	+33' 3.4 309.8	+37' 2.7 310.5	2.7 310.5	307.38
1+87					307.43	2.0 311.2		1.1 312.1	1.3 311.9	4.0 309.2		+31 4.0 309.2	+35' 3.1 310.1	3.1 310.1	306.91
2+25 ± stakes					306.75 +4.1	2.3 310.9		2.3 310.9	2.3 310.9	3.5 309.7			3.8 309.4	306.2 +3.2
EL Hugo 3+00					+4.2 305.4	3.6 309.6		3.5 309.7	3.9 309.3	4.8 308.4			5.4 307.8	+3.0 304.8
℄ Hugo 3+40					305.2	4.1 309.1		4.4 308.8	5.0 308.2	5.3 307.9			6.0 307.2	304.6
WL Hugo 3+80 + 0+00					+3.3 305.0	4.9 308.3		5.5 307.7	6.2 307.0	6.8 306.4			6.9 306.3	+1.9 304.4
0+75 ± stakes					303.88 +2.9	6.4 306.8		6.8 306.4	8.0 305.2	8.2 305.0			8.5 304.7	303.25 +1.4
1+25					303.13	6.6 306.6		7.8 305.4	+5' 8.4 304.8	9.0 304.2	10.3 302.9		10.2 303.0	302.49
1+35					302.97	7.1 306.1	+39' 7.6 305.6	8.4 304.8	+5' 8.5 304.7	9.4 303.8	+16' 10.7 302.5	10.8 302.4	10.3 302.9	302.33
1+45					302.83	7.7 305.5	+38' 9.2 304.0	10.4 302.8	10.1 303.1	11.0 302.2	+28' 11.2 302.0	+38' 10.2 303.0	9.4 303.8	302.18
1+47					302.79	9.6 303.6	+26' 11.2 302.0	10.7 302.5	10.2 303.0	11.1 302.1	+26' 11.4 301.8		11.0 302.2	302.15
℄ Alley Hugo Sisson 1+50					+0.3 302.75	10.1 303.1	+26' 11.3 301.9	10.9 302.3	10.5 302.7	11.4 301.8	+26' 11.7 301.5		11.0 302.2	+0.1 302.1

Oct 23-1915
48-Hyatt Graff

X Sections Clark
E & W of Hugo

Sta	+	HI	−	Elev	−	+40' N.P.L	North	+20' ¼	℄	+20' ¼	South		+40' S.P.L	
B.M.				320.57		Pipe SE Clark & Hugo								
℄ Alley Bet Conklin Hugo 1+50	5.81	326.38			+0.8 321.1	4.5 321.9		5.2 321.2	5.6 320.8	6.2 320.2			5.5 320.9	+0.2 320.7
1+85					321.03	3.3 323.1		3.5 322.9	3.3 323.1	4.2 322.2	+27' 6.4 320.0	+30' 4.7 321.7	5.0 321.4	320.63
2+25 ± Stakes					320.95 +1.8	3.6 322.8		3.0 323.4	3.3 323.1	4.8 321.6	+24' 6.5 319.9	+29' 5.1 321.3	5.1 321.3	320.55 +0.7
EL Hugo 3+00					+1.6 320.8	4.0 322.4		4.4 322.0	4.9 321.5	5.4 321.0	+24' 5.4 321.0	+34' 6.4 320.0	+37' 5.6 320.8	5.6 320.8	+0.4 320.4
℄ Hugo 3+40					320.6	4.2 322.2		4.3 322.1	4.9 321.5	5.4 321.0			5.7 320.7	320.2
WL Hugo 3+80 & 0+00					+1.7 320.4	4.3 322.1		5.0 321.4	5.1 321.3	5.5 320.9			6.0 320.4	+0.4 320.0
0+75 ± Stakes					319.92 +1.6	4.9 321.5		5.7 320.7	5.7 320.7	6.2 320.2			6.2 320.2	319.5 +0.7
1+40					319.38	5.5 320.9	+35' 5.6 320.8	+26' 6.8 319.6	6.6 319.8	6.6 319.8	7.0 319.4		6.9 319.5	319.07
℄ Alley Bet Hugo Sisson 1+50					+0.1 319.45	6.8 319.6	+26' 7.5 318.9		7.0 319.4	6.8 319.6	7.6 318.8	+26' 7.8 318.6	7.2 319.2	+0.2 319.0
± Stakes on Castle E of Hugo														
B.M.				335.35		Pipe SE Hugo & Castel								
75' E of Hugo 2+25' W of Conklin	4.35	339.70			328.3 +3.7	7.7 332.0							5.7 334.0	328.65 +5.3

X Sections Howard-
E & W of Hugo Ave

4th-Hyatt-Graf
Nov. 1, 1915

Red. and Plotted
W.J.L. Nov. 29

Sta	+	HI	−	Elev	Grade	North N.P.L.	+20' 1/4	℄	+20' 1/4	South	+40' S.P.L.	Grade
BM.				331.66		Pipe 32' NE of 6x6' NE Howard & Hugo						
℄ Alley bet Conklin Hugo					+0.35	6.1	+26' 6.8	6.6	6.6	6.9	+26' 7.0	6.5	+0.4
1+50	5.05	336.71			330.25	30.6	29.9	30.1	30.1	30.2	29.7	30.2	329.80
						4.7	+28' 6.3	6.5	6.3	6.7		6.2	
1+52					330.24	32.0	30.4	30.2	30.4	30.0		30.5	329.79
						5.0	+29' 5.7	5.9	5.5	5.7		5.9	
1+60					330.22	31.7	31.0	30.8	31.2	31.0		30.8	329.76
					+1.8	4.8		5.2	5.3	5.7		6.1	+1.0
2+25 ± stakes					330.13	31.9		31.5	31.4	31.0		30.6	329.65
EL Hugo					+1.6	5.1		5.2	+11' 5.5 5.4	+9' 5.5 5.5		5.1	+2.1
3+00					330.0	31.6		31.5	31.2	31.3	31.2	31.6	329.5
℄ Hugo						4.9		5.2	+11' 5.3 5.1	+10' 5.4 5.5		5.7	
3+40					330.0	31.8		31.5	31.4	31.6	31.3	31.2	329.5
W.L. Hugo					+1.7	5.0		4.9	+12' 5.3 5.1	+10' 5.5 5.4		5.6	+1.6
3+80 + 0+00					330.0	31.7		31.8	31.4	31.6	31.2	31.3	331.1	329.5
					+2.1	5.1		5.4		4.9		5.6	5.4	+2.3
0+75					329.5	31.6		31.3		31.8		31.1	31.3	329.0
						5.0	+37' 5.5 +24' 5.1	5.0		4.7	+13' 5.5 5.4		5.3	
1+28					329.5	31.7	31.2 31.6	31.7		32.0	31.2	31.3	31.4	328.65
℄ Alley bet Hugo Sissons					+0.2	7.5	+26' 8.0	7.8		7.4	8.1	+26' 8.1 +35' 7.9	7.0	+1.2
1+50					329.0	29.2	28.7	28.9		29.3	28.6	28.6 28.8	29.7	328.5

X Sections Klauber
E & W of Hugo

Sta	+	HI	−	Elev
B.M.				342.86
℄ Alley Conrlon Hugo				
1+50	5.35	348.21		
1+60				
1+70				
1+95				
2+25 ± Stakes E. of Hugo				
3+00 ℄ Hugo				
3+40 W.L. Hugo				
3+80+0+00			3.16	344.75
0+75 ± Stakes ℄ Alley Hugo Sibern	5.36	350.11		
1+50				

Graded
Corrected
Jan. 11-1916-AS

Al-Hyatt-Gruf-
Nov 1, 1915

Reduced and Plotted
by W.J.L. Nov. 29, 15

40

North ← South

+40' N.E.	+20' ¼	℄	+20' ¼	+40' S.E.

Pipe 27 SE of SE 6 & 7 Klauber & Hugo

+0.1	8.6	9.6	9.6	10.0 +26' 10.0	10.3		−1.0
339.45	339.6	338.6	338.6	338.2	338.2	337.9	338.95
	9.0	13.4 +13' 14.2	7.5 10.4	9.8 +3' 10.4	15.4 +31' 15.1	13.6	+3.5 16.0
	339.2	338.8 340	337.8 337.8	338.2 338.2	338.8 333.1	334.6	338.2
+5.0	13.5	14.9 +12' 14.5	+6' 10.0	9.8 +7' 10.1	+7' 14.6 14.7	13.4	+3.5 13.3
336.7	334.7	333.3 333.7	338.2 338.1	338.1 33.4	335	34.8	34.9
	8.4	8.6	8.6	+12 8.1	8.3	8.6	
	39.8	39.6	39.6	40.1	39.9	39.6	
+1.1	5.3	5.3 +1.8 5.8	6.2		−5.0	6.5	+1.0
341.23	342.9	42.9 42.4	42.0		42.3	41.7	340.73
	2.8	3.2	3.6		4.0	4.6	
+2.4	343.0 45.4	45.0	44.6		44.2	43.6	342.5 +1.1
	2.5	3.0	3.3		3.7	4.2	
	45.7	45.8	44.9		44.5	44.0	
	2.2	2.8	3.1		3.7	4.0	+1.2
+2.5	343.5 46.0	45.4	45.1		44.5	44.2	343.0
1.7 Jan 11	4.6	+38 +35 5.1 6.5	6.6		6.5	6.6	
+2.3	341.325 45.5	45.0 43.6	43.5		43.7	43.6	342.75 +0.8
	6.7	+26' 7.6	7.4		7.6	8.1 +2.6' 8.3	8.0
+0.1	343.0 43.4	42.5 42.7	42.5		42.0	41.8	42.1 342.5-0.4

Marked Jan 11, 1916 - AS -

Not Marked before Corrected -

± Hugo (Centre-Chatham)

Sta.	+	H.I.	−	Elev.	
B.M. S.L. Centre					
34+40					
35					
+50					
36					
+50					
37				W.P.L.	E.P.L.
+40	Break in grade		Elev.	96.4	96.8
+50					
+65	Break in grade			96.0	96.2
+90	Break in grade			96.2	96.0
38					
+					
+50					
39					
+50					
40					
N.L. Chatham					
+40					

Restaked & Refigured JAN 21 1916 Page 58

Grades corrected - Jan 14-16

copied by A.H. Graf Nov. 26, 15

41

± Elev. taken from x-sect. notes on pg. 8: same book.

+or−	Grade	W.P.L.	E.P.L.	Grade	+or−	
+1.7	304.4	306.1	307.7	304.8	+2.9	
+1.4 / +1.4	302.8 / 303.8	304.2	306.1	303.2 / 304.12	+2.0	+2.9
+1.2 / +0.6	301.5 / 303.3	302.7	304.2	301.9 / 303.57	+0.6	+2.3
−0.6 / −3.2	300.2 / 302.8	299.6	302.3	300.6 / 303.02	−0.7	+1.7
−1.6 / −5.0	298.9 / 302.3	297.3	300.6	299.3 / 302.47	−1.9	+1.3
−6.9 / −11.1	297.6 / 301.8	290.7	298.9	297.9 / 301.92	−3.0	+1.0
−14.0 / −19.0	296.3 / 301.3	282.3	295.2	296.6 / 301.37	−6.2	−1.4
−9.9 / −14.7	296.2 / 300.8	286.1	288.1	296.00 / 300.82	−12.7	−7.9
−3.7 / −7.7	296.3 / 300.3	292.6	273.2	296.1 / 300.27	−27.1	−22.9
+1.3 / −1.7	296.85 / 299.8	298.1	280.6	296.6 / 299.72	−19.1	−16.0
+4.0 / +2.1	297.46 / 299.3	301.4	287.2	297.2 / 299.17	−12.0	−10.0
+5.7 / +4.8	297.96 / 298.8	303.6	292.7	297.7 / 298.62	−5.9	−5.0
+5.8	298.4	304.2	297.5	298.2	−0.7	−0.7

± Stakes marked accd. to corrected grade Jan 14-15 HAG

Record of slopes on Hugo - (Centre - Chatham)

Sta.	+	H.I	-	F.S.V
36+50				
37+00				
+50				
38				
+50				
39				
+50				
40				

Hratt
arot
Nov. 26/15

42

W. Slope		E. Slope	
Dist out.	Fill	Fill	Dist out.
9.9'	-6.6		
27.9'	-18.6		
24.4'	-16.3	-5.5	8.2'
17.8'	-11.9	-9.6	14.4'
5.4	-3.6	-17.7	26.5'
		-26.6	39.9'
		-18.5	27.7
		-8.3	12.4'

Record of slopes on Castle W. of Hugo

Sta	+	H.I.	−	Elev.
0+50				

Record of slopes on Hugo bet Maubert + Castle

11+50				
12				
+50				
no stake for int.				
12+90				

N. slope		S. Slope		Hyatt Graf Nov. 26, 15	43
Dist. out	Fill	Fill	Dist. out		
29.5'	-19.7				

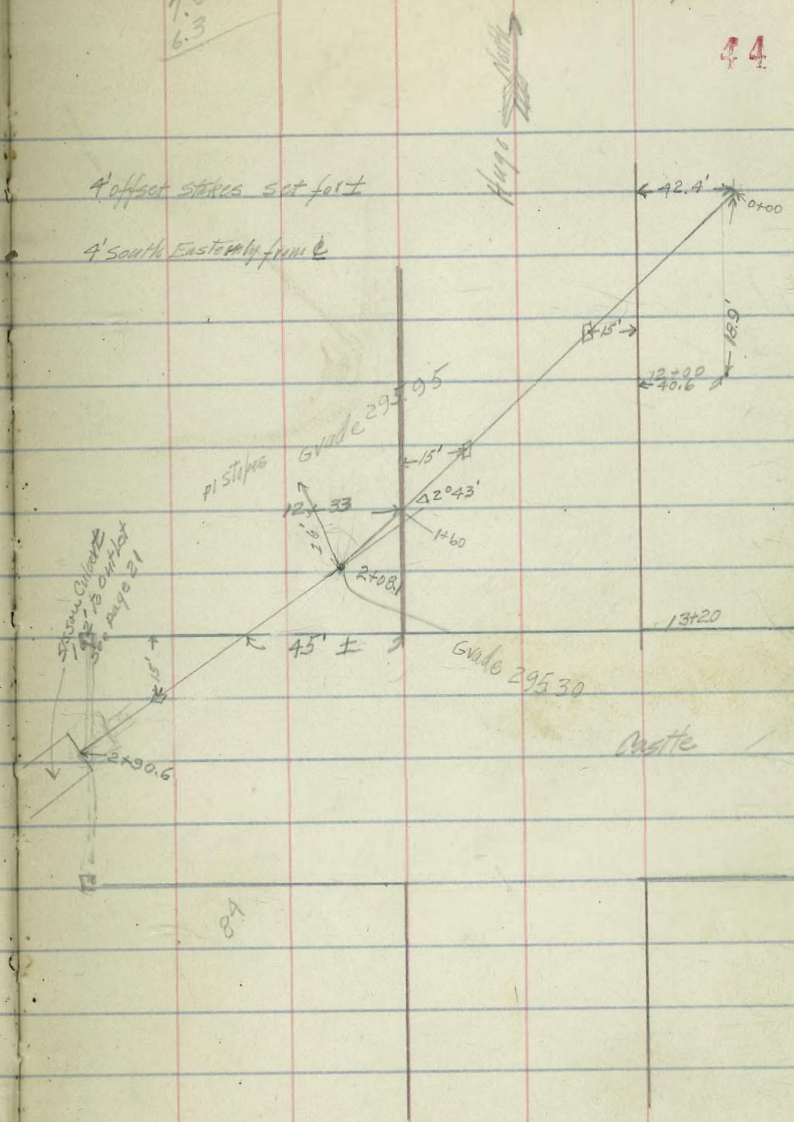
W. Slope		E. Slope	
		-26.0	39.8'
		-27.1	40.6'
35.4'	-23.6	-22.8	34.2'
44.4'	-29.6		

Layout of Culverts Across Hugo & Castle

Ford - Nov 27-1915
Graf - Hyatt

44

7.0
6.3



Culvert Hugo & Castle
see Sketch Page 44

Sta	+	HI	−	Elev
On ± Stake 12+00				302.6
S. On ± Stake 12+50	3.8	306.40	6.00	300.4
0+00				
+20				
+40				
+60				
+72				
+77				
+80				
+93				
1+00				
+05				
20				
+25				
+40				
+50				
+60				
+80				
+96				

℄	For ± 4' South	Finished Grade
5.3 300.9	4.8 301.6	300.6 +1.0
6.3 300.1	6.1 300.3	300.09 +0.2
6.7 299.7	6.7 299.7	299.58 +0.1
7.0 299.4	299.4	299.07 +0.3
6.6 299.8		
5.2 301.2		
5.2 301.2	6.2 300.2	298.56 +1.6
6.6 299.8		
6.4 300.0	7.7 298.7	298.05 +0.7
7.6 298.8		
8.1 298.3	8.6 297.8	297.54 +0.3
7.8 298.6		
9.3 297.1	10.3 296.1	297.03 −0.9
9.3 296.9		
10.7 295.7	11.3 295.1	296.52 −1.4
11.9 294.5	11.8 294.6	296.01 −1.4
12.2 294.2		

Cont'd

Sta	+	HI	−	Elev
2+00		306.4		
+08.1				
+20				
+40				
+60				
2+90.6				

℄	4' South	
11.7	9.6	
295.0	296.8	295.50 +1.3
10.6	8.3	
295.8	298.1	295.30 +2.8
9.7	8.4	
296.7	298.0	294.99 +3.0
10.3	9.0	
296.1	297.4	294.78 +2.9
11.3	11.0	
295.1	295.4	293.97 +1.4
13.2		
293.2		293.2 0.0

Finish Stakes Castle E & W Hugo
AS-Hydlot
Sept-12-1916

Sta	+	H.I	−	Elev
SW Hugo-Castle Curbstake				327.00
NW Hugo Castle	8.62	335.62	9.62	326.0
NE " "				327.0
N.L. Castle 136' E of EL Hugo			6.26	329.36
S.L. Castle " "			6.17	329.45
				327.00
NW " W of Hugo	378	330.78	478	326.00
℄ N.L. Castle			4.53	326.25
			4.78	326.00

Graf
Hyatt
12/6/15

B.M.'s Hugo - Cajon - Steiner

Sta.	+	H.I.	−	Elev.
B.M.				352.00
B.M.	8.61	360.61	3.27	357.34
B.M.	9.89	366.63	3.92	362.71
B.M.	7.59	370.30	5.70	364.60

Check on B.M.'s Hugo Steiner - Cajon

B.M.				364.60
T.P.	5.39	369.99	6.81	363.18
T.P.	1.94	365.12	7.93	357.19
B.M.	4.03	361.22	9.23	351.99

(352.00 S.B.)

Brass plug N.W. Cor. Hugo + Steiner,

Iron pipe 4.5' E + 6.5' S of S.E. Anna + Hugo

Iron pipe 5' S.E. of pt. 6' W. of S.E. Cor. Hugo + Orange.

Iron pipe S.E. of S.E. Cor. Hugo + Cajon.

Iron pipe S.E. of S.E. Cor. Hugo + Cajon.

Brass plug N.W. Cor Steiner + Hugo.

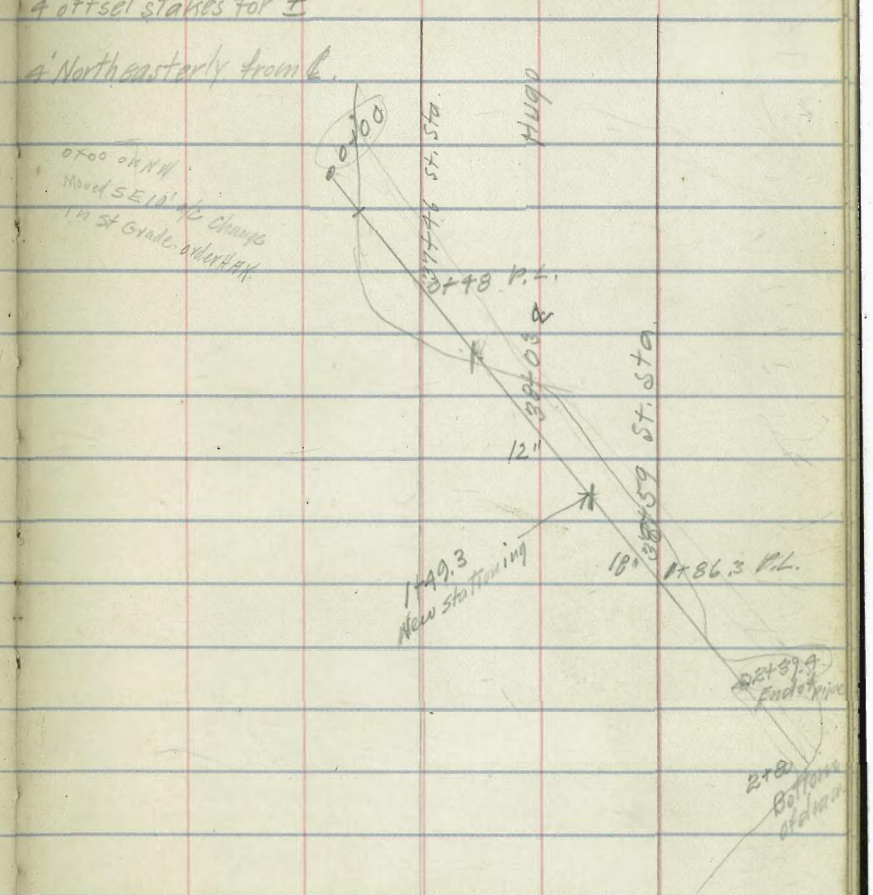
Lay out of culvert on Hugo bet
Centre & Chatham.

Ford-Hyatt-Graf.
Nov 29, 1915.
Notes copied by Graf.
Dec. 7, 1915

length pipe 240'

4' offset stakes for ±

4' Northeasterly from ℄.



Culvert on Hugo bet Centre & Chatham
See sketch pg. 49

Raked in
Jan 21-1916
Ford Hyatt Graf

Ford-Hyatt-Graf.
Nov. 29, 1915
Notes copied by A.H. Graf
Dec. 7, 1915.

Sta.	+	H.I	−	Elev.		Raised ±	℄	For ± 4' North	Flowline Grade	±
± stake. 37+50 W.				282.3						
0+00	3.7	286.0			0+00	+1.0	2.7 / 283.3	3.6 / 282.4	283.1	−0.7
+20 = 0+10					0+10	+2.6	2.9 / 283.1	1.4 / 284.6	281.98	+2.6
+40					+30	+4.1	2.0 / 284.0	1.1 / 284.9	280.86	+4.0
+55					+		3.5 / 282.5			
+60					+50	+3.2	5.0 / 281.0	3.0 / 283.0	279.74	+3.3
+71							8.1 / 277.9			
+80					+70	+0.8	8.3 / 277.7	6.5 / 279.5	278.62	+0.9
1					+90	+0.2	9.0 / 277.0	8.4 / 277.6	277.48	+0.1
+20					1+10	0.0	9.8 / 276.2	9.7 / 276.3	276.36	−0.1
+40					+30	+0.1	11.2 / 274.8	10.6 / 275.4	275.24	+0.2
+55							11.4 / 274.6			
T.P. 38+50 E +60			12.5	273.5	+50	−0.5	10.7 / 275.3	12.7 / 273.3	274.12	−0.8
+80	3.5	277.0			+70	+0.3	3.6 / 273.4	4.0 / 273.0	273.0	0.0
2					+90 +2.5	+2.5	4.7 / 272.3	2.7 / 274.3	271.86	+2.4
+20					2+10 +2.4	+2.4	6.3 / 270.7	4.2 / 272.8	270.74	+2.1
+32					+		6.4 / 270.6			
End of pipe - +39.4					+30 +0.8	+0.8	3.9 / 273.1	6.6 / 270.4	269.6	+0.8
					+50 +2.7	+2.1				

250' pipe over ALL
1+49.3 = PI East Riser
150' 12"
100' 18"

Culvert cont'd.

Sta.	+	H.I.	−	Elev.
+60		277.0		
+70				
Bottom of drop				
+80				

℄	For ± 4' North	Flow line grade	±
4.1	6.0		
272.9	271.0	268.7	+2.3
6.1			
270.9			
9.2			
261.8		267.8	0.0

Xsections & ± Stakes
Hugo North of Steiner

Sta	+	HI	−	Elev	
B.M. N.L. Steiner				352.00	
0+40	6.42	358.42			
1					
+50					
2					
+50					
3					
+50					
TP on 4 West 4			2.53	355.89	
+50	6.30	362.19			
5					
+50					
6					
SL Anna BM. +40			4.85	357.34	Pipe SE Anna & Hugo

Ford Hyatt Grat Dec 17 1915

Rods reduced by H.H.G. 12/17/15

52

80' Wide

West ——— ℄ ——— East

West P.L. +40'												East P.L. +40'	
+0.3	6.3			+18 6.5		6.0		+20 6.4			6.0		+0.3
351.8	352.1			351.9		352.4		352.0			352.4		352.1
+0.4	5.7	+27 5.9	+24 6.3	+16 5.9		5.5	+17 6.0	+23 6.3	+27 5.8		5.8		0.0
352.29	352.7	352.5	352.1	352.5		352.9	352.4	352.1	352.6		352.6		352.56
+0.5	5.2	+26 5.4	+22 5.7	+10 5.2		4.7	+17 5.0	+24 5.8	+27 5.2		5.3		+0.2
352.70	353.2	353.0	352.7	353.2		353.7	353.4	352.6	353.2		353.1		352.94
+0.9	4.4	+27 4.3	+22 4.8	+13 4.5		3.8	+20 4.6	+23 5.2	+26 4.6		4.4		+0.7
353.11	354.0	354.1	353.6	353.9		354.6	353.8	353.2	353.8		354.0		353.33
+1.2	3.7	+25 4.0	+21 4.2	+10 3.7		3.4	+15 3.8	+21 4.0	+24 4.3	+27 4.0	3.8		+0.9
353.51	354.7	354.4	354.2	354.7		355.0	354.6	354.4	354.1	354.4	354.6		353.71
+1.3	3.2	+28 3.3	+24 3.8	+16 3.4		3.0	+13 3.2	+24 3.6	+27 3.2		3.5		+0.8
353.92	355.2	355.1	354.6	355.0		355.4	355.2	354.8	355.2		354.9		354.09
+1.2	2.9	+26 2.9	+23 3.3	+12 3.0		2.7	+16 3.0	+24 3.2	+27 2.7		2.9		+1.0
354.33	355.5	355.5	355.1	355.4		355.7	355.4	355.2	355.7		355.5		354.47
+1.2	2.5	+27 2.6	+23 3.1	+16 2.5		2.3	+19 2.7	+24 3.2	+27 2.6		2.9		+0.6
354.74	355.9	355.8	355.3	355.9		356.1	355.7	355.2	355.8		355.5		354.86
+1.0	6.0	+26 6.0	+23 6.6	+9 6.0		5.7	+17 6.1	+25 6.6	+27 6.1		6.2		+0.8
355.15	356.2	356.2	355.6	356.2		356.5	356.1	355.6	356.1		356.0		355.24
+1.2	5.6	+27 5.8	+24 6.4	+20 6.0	+9 5.6	5.6	+10 5.6	+19 5.9	+24 6.4	+27 5.8	6.1		+0.5
355.55	356.8	356.4	355.8	356.2	356.6	56.6	56.6	56.3	55.8	56.4	56.1		355.62
+0.8	5.4	+26 5.6	+23 6.2	+7 5.5		5.3	+14 5.4	+20 5.8	+24 6.3	+28 5.9	5.9		+0.3
355.96	356.8	356.6	356.0	356.7		356.9	356.8	356.4	355.9	356.3	356.3		356.01
+0.6	5.2	+26 5.4	+23 6.0	+16 5.2		5.1		+17 5.3	+26 5.7	+27 5.3	5.7		+0.1
356.37	357.0	356.8	356.2	357.0		357.1		356.9	356.5	56.9	56.5		356.39
+0.5	5.0	+26 5.0	+22 5.6	+16 5.0		4.8	+18 5.1	+25 5.7	+28 5.0		4.9		+0.6
356.7	357.2	357.2	356.6	357.2		357.4	357.1	356.5	357.2		357.3		356.7

XSections & ± Stakes Anna E & W
Hugo

Dec 17-1915
48-Hyatt
Eval
Rods reduced
by A.H.G. 12/17/15

40' Wide
North — X — South

Sta	+	HI	−	Elev	+20 N.P.L.												+20 S.P.L.	
B.M.				357.34														
℄ Alley Conkan Hugo																		
1+50	52.5	362.59			0.0	5.9			+15	6.2			+10	+14			6.0	+0.2
					356.7	356.7			6.4	356.2	356.4		6.5	6.2			356.6	356.4
													356.1	356.4				
1+70					+0.3	5.6		+15			5.5	+7	+13				5.7	+0.5
						357.0		5.8			357.1	5.4	5.8				356.9	356.44
					356.74			356.8			357.2	357.2	356.8					
2					+0.3	5.5		+14			5.5				+7		5.8	+0.3
					356.80	357.1		5.8			357.1				5.5		356.8	356.50
								356.8							357.1			
+25 ±					+0.3	5.4		+10			5.4	+13					5.6	+0.4
						357.2		5.6			357.2	5.9					357.0	356.55
					356.85			357.0				356.7						
+50					+0.1	5.6		+10			5.5		+8	+13			5.7	+0.3
						357.0		5.7			357.1		5.5	5.8			356.9	356.60
					356.90			356.9					357.1	356.8				
E.L. Hugo					+0.2	5.4		+15	+11		5.3	+8	+11				5.3	+0.6
						357.2		5.2	5.9		357.3	5.3	5.2				357.3	356.70
					357.0			357.4	356.7			357.3	357.4					
3						5.4		+13			5.2	+6	+12				5.2	
						357.2		5.8			357.4	5.0	5.0				357.4	
℄ Hugo								356.8				357.6	357.6					
3+40																		
WL Hugo					+0.2	5.4	+14	+13	+11	5.3	5.3	+10	+14	+16	+18		5.4	+0.5
						357.2	5.4	5.8	5.3	57.3	4.9	5.1	5.8	5.3			357.2	356.7
3+80=0+00					357.0		357.2	356.8	357.3		357.7	357.5	356.8	357.3				
0+50					−0.1	5.5		+16	+14	5.3			+11	+15	+16		5.5	+0.2
						357.1		5.5	5.2	357.3			5.1	5.9	5.6		357.1	356.91
					357.21			357.1	357.4				357.5	356.7	57.0			
0+75					−0.2	5.5	+15	+6		5.1	+10	+15	+17				5.5	+0.1
						357.1	5.8	5.3		357.5	5.2	5.5	5.2				357.1	357.02
					357.32		356.8	357.3			357.4	357.1	357.4					
1					−0.2	5.4	+16	+12	+7	5.3	+5	+10	+14	+16			5.1	+0.4
						357.2	5.5	5.2	5.5	357.3	5.1	4.9	5.5	5.0			357.5	357.13
					357.43		357.1	357.4	357.1		357.5	57.7	357.1	357.6				
℄ Alley Hugo Sisson					+0.1	4.8	+11	+9	+7	5.1	+10	+14					5.0	+0.2
						357.8	5.1	5.4	4.8	357.5	5.5	5.1					357.6	357.35
+50					357.65		357.5	357.2	357.8		357.1	357.5						

Pipe SE Anna & Hugo

Xsections ± Hugo

Anna North to Orange

Sta	+	HI	−	Elev
BM				357.34
NL Anna 6+80	525	362.59		
7+50				
8				
+50				
T.P. 9+50E				
9			2.36	360.23
9+50	745	367.68		
10				
+ 06				
+ 08				
+ 50				
11				
+ 50				
12				
SL Orange + 54			~~4.9~~	
BM			4.95	362.73 Sh 362.71

Ford Hyatt Grat Dec 17 1915 roads red good by H.H.G. 12/17/15

80' Wide

West — ℄ — East

+40' W.P.L. | +40' E.P.L.

Pipe SE Anna & Hugo

+40' W.P.L.														+40' E.P.L.	
+0.3	5.3		+26	+22	+18	5.4		+10	+17	+23			5.4		+0.2
357.0	357.3		5.5	5.6	5.4	357.2		5.4	5.8	5.3			357.2		357.0
			357.1	357.0	357.2			357.2	356.9	357.3					
-0.7	5.5		+20	+19	+9	5.1		+15	+23				5.8		-1.0
357.79	357.1		5.5	5.8	5.4	357.5		5.4	5.6				356.8		357.76
			357.1	356.8	357.2			357.2	357.1						
-0.4	4.6		+22	+20	+13	4.5		+9	+16	+23			5.1		-0.8
358.35	358.0		5.1	5.6	5.4	358.1		4.9	5.2	5.0			357.5		358.30
			357.5	357.0	357.2			357.7	357.4	357.6					
+0.2	3.5	+27 Tan Curve	+26	+24	+21	+18	+12	+9	+20	+27			4.6		-0.8
358.92	359.1	10.0 3.5	4.0	3.9	4.1	4.9	4.5	4.5	5.1	4.6			358.0		358.84
		358.6 59.00	58.0	58.7	58.8	59.1	58.1	58.7	58.1	58.0					
+0.4	2.7		+22	+20	+13	+8	2.8	+6	+15				3.2		0.0
359.49	359.9		3.2	3.9	3.6	3.0	3.8	3.0	3.8	+20	+24		59.7		359.38
			59.4	58.7	59.0	59.6	59.8	59.6	58.8	42	37				
										58.4	58.9				
+0.6	7.0	+21	+19	+14	+8	℄	+6	+15	+20	+26	+27	T. Curve	+35	7.5	+0.3
360.05	60.7	49	78	76	7.9	7.5	6.6	7.2	7.8	8.2	7.9	26.8	7.7	60.2	359.92
		60.8	59.9	60.1	60.7	61.2	61.2	60.5	59.9	59.5	59.8	360.5	60.0		
+1.5	5.6	+20	+19		+9	5.7	+8	+15	+20	+25			6.9		+0.3
360.61	62.1	6.1	6.7		6.2	62.0	6.1	6.4	7.0	6.4			60.8		360.46
		61.6	61.0		61.5		61.6	61.3	60.7	61.3					
+1.4	5.6		+21	+19	+12	5.6	+8	+20	+24		+26	+34	6.9		+0.3
360.68	62.1		5.7	6.4	6.5	62.1	6.0	7.0	6.3		7.2	6.9	60.8		360.52
			62.0	61.3	61.2		61.7	60.7	61.7		60.5	60.8			
+1.5	5.5		+21	+19	+14	5.6	+8	+20	+22		+26	+34	6.2		+1.0
360.70	62.2		5.6	6.7	6.3	62.1	6.0	7.0	6.3		6.1	6.1	61.5		360.54
			62.1	61.3	61.4		61.7	60.7	61.4		61.6	61.6			
+1.1	5.4		+20	+18	+8	5.1	+13	+21	+23				5.8		+0.9
361.18	62.3		5.3	5.9	5.4	62.6	5.6	6.3	5.7				61.9		361.00
			62.4	61.8	62.3		62.1	61.4	62.0						
+0.7	5.3		+24	+20	+14	4.9		+15	+20	+22			5.3		+0.9
361.74	62.4		5.3	5.7	5.7	62.8		5.4	6.1	5.3			62.4		361.54
			62.4	62.0	62.0			62.3	61.6	62.4					
+0.8	4.6		+21	+19	+	4.7	+7	+16		+22	+24		5.1		+0.5
362.31	63.1		4.8	5.5	+12	63.0	4.7	5.3		5.9	5.3		62.6		363.08
			62.9	62.2	5.3		63.0	62.4		61.8	62.4				
					62.4										
+0.4	4.4		+25	+21	+12	4.3		+13		+21	+23		4.8		+0.3
362.87	63.3		4.9	4.7	5.2	63.4		4.9		5.6	4.6		62.9		362.62
			62.8	63.0	62.5			62.8		62.1	63.1				
+0.1	4.1		+20	+18	+6	4.5		+22	+24	+37			4.7		-0.3
363.5	63.6		4.4	4.9	4.7	63.2		5.3	4.4	5.2			63.0		363.3
			63.3	62.9	63.0			62.4	63.3	62.5					

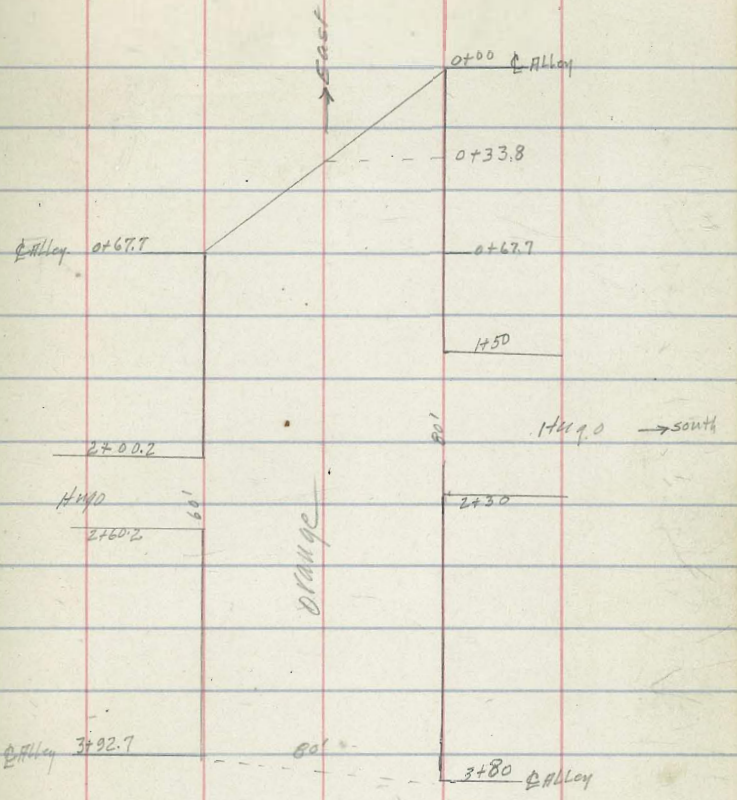
Pipe SE Orange & Hugo

Ford-Hyatt Grat
Dec 17-1915
Rods reduced by A.H.E. 12/17/15

X Sections & ± stakes Orange
E & W of Hugo
See Sketch page 56

North — 80' Wide — South

Sta	+	HI	−	Elev	+40' N.P.L.										+40' S.P.L.	
B.M.				362.71	Pipe SE Hugo & Orange											
0+33.8	6.40	369.11			63.1					6.0 363.1	+15 7.0 362.1	+24 7.2 361.9	+32 6.4 362.7		6.6 362.5	−0.2 62.73
℄ Alley Hugo North Conklin 0+67.7					+0.1 63.2	5.8 363.3	+23 6.6 362.5	+7 5.9 363.2	5.8 363.3	+7 6.3 362.8	+26 7.2 361.9	+28 6.6 362.5			6.1 363.0	± +0.1 62.87
1					−0.1 63.30	5.9 363.2	+27 5.8 363.3	+25 6.5 362.6	+9 5.9 363.2	6.0 363.1	+8 6.0 363.1	+18 6.8 362.3	+28 6.8 362.3		6.1 363.0	0.0 63.00
WL Hugo South 1+50					+0.5 63.45	5.1 364.0	+27 5.4 363.7	+25 6.2 362.9	+11 5.5 363.6	5.6 363.5	+13 6.0 363.1	+25 6.9 362.2	+27 6.1 363.0		6.1 363.0	−0.2 63.20
WL Hugo North 2+00.2					+0.8 363.6	4.7 364.4	+28 4.8 364.3	+26 5.6 363.5	+16 5.3 363.8	5.0 364.1	+13 5.7 363.4	+25 6.4 362.7			6.2 362.9	
WL Hugo North 2+60.2					+0.9 363.9	4.3 364.8	+25 4.8 364.3	+23 5.7 363.4	+11 4.7 364.4	4.6 364.5	+12 5.1 364.0	+25 6.1 363.0	+27 5.4 363.7		5.1 364.0	+0.5 363.52
3					+0.7 363.95	4.4 364.7	+26 4.2 364.9	+25 5.5 63.6	+14 4.4 64.7	4.4 64.7	+12 4.8 64.3	+22 5.8 63.3	+25 5.0 64.1		5.1 64.0	+0.4 363.55
+50					+1.0 364.00	4.1 65.0	+26 4.4 64.7	+23 5.4 63.7	+12 4.6 64.5	4.3 64.8	+12 5.0 64.1	+23 5.7 63.4	+24 6.2 62.9	+25 5.4 63.7	4.8 64.3	+0.7 363.58
3+80 South ℄ Alley Sisson Hugo 3+92.7 North					+0.5 364.05	4.5 64.6	+24 5.4 63.7	+21 5.0 64.1	+15 5.3 63.8	5.1 64.0			+12 5.4 63.7	+23 6.0 63.1	5.2 63.9	+0.3 363.60


East
0+00 ℄ Alley
0+33.8
℄ Alley 0+67.7
0+67.7
1+50
80'
Hugo
south
2+00.2
Hugo
60'
2+30
2+60.2
orange
℄ Alley 3+92.7
80'
3+80 ℄ Alley

Dec 17-1915
Ford-Hyatt
Graf

Red. by W.J.L.
Dec. 18, 15

XSections Hugo

60' Wide

West —×— East

Sta	+	HI	−	Elev		+30' W.P.L.		℄						+30' E.P.L.	
B.M.				362.71		Pipe SE Orange & Hugo									
NL Orange						+0.9	5.9		+17 5.8	+14 6.4	6.5		+15 6.8	+17 6.3	6.3	+0.7
13+34	7.97	370.68				363.9	364.8		364.9	364.3	364.2		363.9	364.4	364.4	363.7
						+1.1	5.6		+16 5.8	+15 6.3	+8 6.0	5.8	+9 6.3	+15 6.4	+18 5.9	6.1	+0.8
14						363.97	365.1		364.9	364.4	364.7	364.9	364.4	364.3	364.8	364.6	363.79
						+1.3	5.4		+17 5.7	+16 6.1	+6 5.8	5.6		+14 6.5	+16 6.1	6.3	+0.5
+50						364.03	365.3		365.0	364.6	364.9	365.1		364.2	364.6	364.4	363.86
						+1.3	5.3		+16 5.5	+14 6.1		5.5	+9 5.6	+15 6.1	+17 5.5	6.0	+0.8
15						364.09	365.4		365.2	364.6		365.2	365.1	364.6	365.2	364.7	363.94
						+0.9	5.6		+16 5.7	+13 6.1		5.4	+14 6.3		+15 5.8	5.6	+1.1
+50						364.15	365.1		365.0	364.6	365.3		364.4		364.9	365.1	364.01
						+1.0	5.5		+21 5.4	+16 4.7	+13 5.5	4.9	+16 5.9	+19 5.4		5.8	+0.8
16						364.21	365.2		365.3	366.0	365.2	365.8	364.8	365.3		364.9	364.09
						+1.1	5.3		+17 4.6	+16 5.3	+9 5.1	4.8	+6 5.1	+15 5.7	+17 4.9	4.8	+1.7
+50						364.27	365.4		366.1	365.4	365.6	365.9	365.6	365.0	365.8	365.9	364.16
						+1.6	4.8		+15 5.0	+11 5.4		4.8	+9 5.1	+17 5.6		5.2	+1.3
17						364.33	365.9		365.7	365.3		365.9	365.6	365.1		365.5	364.24
						+1.9	4.4			+18 5.5	+9 5.2	5.1	+9 5.0	+15 5.6	+17 5.2	5.1	+2.3
+50						364.39	366.3		365.2	365.5	365.6	365.7	365.1	365.5		365.6	364.31
						+0.2	6.0		+16 5.3	+13 5.6		4.6	+10 5.0	+15 5.6		5.1	+1.2
18						364.45	364.7		365.4	365.1		366.1	365.7	365.1		365.6	364.39
						+2.0	4.2		+18 5.3	+15 5.8	+10 5.4	4.9	+9 5.1	+14 5.8	+16 5.5	5.6	+0.6
+50						364.51	366.5		365.4	364.9	365.3	365.8	365.6	364.9	365.2	365.1	364.46
						+0.5	5.6		+15 5.4	+12 5.7		4.9	+9 5.3	+16 6.0		5.7	+0.5
19						364.57	365.1		365.3	365.0		365.8	365.4	364.7		365.0	364.54
SL El. Cañon						+0.5	5.6		+16 5.5	+14 6.0		5.3	+9 5.6		+16 6.0	5.8	+0.3
+41						364.6	365.1		365.2	364.7	365.4	365.1		364.7		364.9	364.6
B.M.			605	364.63	SB 364.60	10' SE Pipe SE Cañon & Hugo											

± Stakes Hugo - Center to Chatham

Jan 21-1916
Ford-Hyatt Graf

58

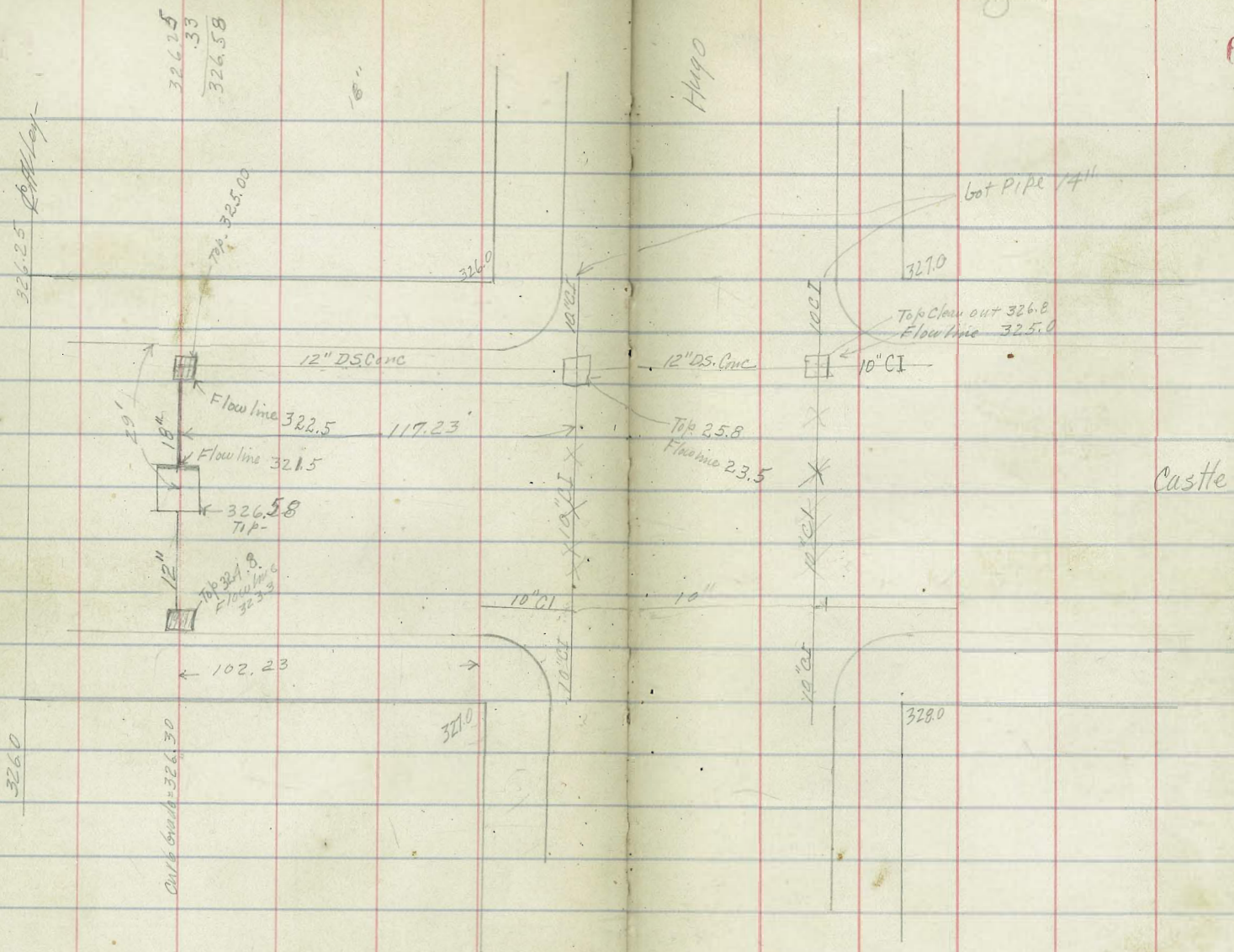
Sta	+	H I	−	Elev		±	Curve Grade	West — Elev Stake on W. Sup Line	Elev Stake on E. Sup Line — East	Curve Grade	±
B.M.				311.02			Pipe 52' West of 6x6 NE Hugo & Center				
SE Center 37+40	0.13	311.15				+ 1.8	304.4	4.9 306.2	3.3 307.8	304.8	+ 3.0
35						+ 1.5	302.8	6.8 304.3	5.1 306.0	303.2	+ 2.8
+50						+ 1.2	301.5	8.7 302.7	6.8 304.3	301.9	+ 2.4
36						- 0.5	300.2	11.4 299.7	8.9 302.2	300.6	+ 1.6
+50						- 1.6	298.9	13.8 297.3	10.6 300.5	299.3	+ 1.2
T.P. on 37 East 37			12.14	299.01			2		12.1 299.0	297.9	+ 1.1
37	1.12	300.13				- 6.9	297.6	9.4 290.7			
37+50									7.8 295.3	296.6	- 1.3
T P on 38 West 38			11.90	288.23		- 8.0	296.2	11.9 288.2	12.0 288.1	296.0	- 7.9
37+50	0.87	289.10			203 Out -13.5	- 13.9	296.3	6.7 282.4			
X			5.80	283.30	Out B.M. Instrument						
38+50							296.3		15.6 273.5	296.10	- 22.6
39									8.4 280.7	296.60	- 15.9 -27.3 4 Out
+50			0.87	288.23					1.8 287.3	297.20	- 9.9
38+50	12.27	300.50				- 3.6	296.3	7.8 292.7			
T Pon 39 West 39			2.82	291.68		+ 0.8	296.85	2.8 297.7			
+50	7.78	305.46				+ 3.7	297.46	4.3 301.2			
40						+ 5.5	297.96	2.0 303.5	12.7 292.8	297.7	- 4.9
+40						+5.7	298.4	1.4 30 A.1	7.6 297.1	298.2	- 0.5

Line and Grade on Culverts at Hugo & Castle

Leakey March 3, 1916
Hyatt

B.M.				342.86		Pipe 26 S.E of 6x6 Hugo & Klauber
TP	1.46	344.32	10.77	333.55		
	0.58	334.13	12.80	321.33	this El. 16" below Cutter 326.44 - 5.11	Riser 0.3' inside face of Curb. 13.7' from prop. Line Top of East Riser as const. E Line Hugo
	5.26	326.59	9.02	317.57	this El. 16" bel. Gutter 325.24 - 7.67	Riser 0.9' inside face of Curb 13.1 from prop. line Top of West Riser as const. W Line Hugo
			3.84	322.75	326.25 - 3.56	Box Culv. Castle put in spike 3.50 below St. Grade
	0		0.00	326.59		
	9.48	326.59	0.71	335.35	335.35 Sheath [illegible]	B.M. 10 S.E. Bl. Cor. Hugo & Castle

	361.74	357.34	S.E. Anna & Hugo
4.40			
	5.04	356.7	S.E. Cor. Anna Hugo


326.25
.33
326.58
18"
Hugo
Top 325.00
326.25
326.0
Got Pipe 14"
327.0
10"CI
Top Clean out 326.8
Flow line 325.0
12" DS Conc
12" DS. Conc
10" CI
Flow line 322.5
117.23'
Top 25.8
Flow line 23.5
29'
18"
Flow line 321.5
326.58
Top
Castle
12"
Top 324.8
Flow line 323.3
10" CI
10"
102.23
327.0
328.0
326.0
Curb Grade = 326.30

Culverts Hugo & Castle

Sta	+	H I	−	Elev	
B M.				335.35	
T. P	1.76	337.11	7.88	329.23	327.0 Grade +2.2
	137	330.60			
5' Back of L. Catch basin S Gutter Line Castle Bet Hugo & Sisson			6.64	323.96	323.3 +0.7 to Flowline
Large CB ℄ " " " " "			9.10	Grade 321.50	9.10
5' N of N CB			4.52	326.08	+ 3.6 to FL 322.5
" " " " "			4.60	326.00	

Finish Stakes set 2½' out From Block Corners

T.P				329.23	Nail Pole SW Castle Hugo
SE Castle Hugo	392	333.15	5.15	328.0	
NE " "			6.15	327.0	
NW "			7.15	326.0	
SW			5.15	328.0	C1.0

May 12-1916
Ad-Hyatt.

62

Pipe SE Castle & Hugo

Nail Pole SW Hugo & Castle

Curb Grade 326.30 − 2.4

326.2 − 0.2

May 16-1916
Ad-Hyatt

Curb Stakes Hugo

Sta	+	HI	−	Elev
B.M.				357.34
SE Hugo Anna	498	362.32	5.62	356.7
SW "			✓	356.7
NW & NE "			5.32	357.0
B.M.				362.71
SE Hugo Orange	4.54	367.25	4.05	363.2
S.W. "			3.75	363.5
B.M.				362.71
N.W. Orange Hugo	6.72	369.43	5.53	363.90
NE ✓			5.73	363.70
B.M.				364.60
SE Hugo Cafon	5.53	370.13	5.53	364.60
SW "			5.53	364.60
BM				362.71
SE Hugo Orange	7.12	369.83	6.63	363.2
SW "			6.33	363.5 TP
N W " NE	5.06	368.56	4.66 4.86	363.9 363.7

48-Hyatt
May 26-1916

63

Pipe SE Anna & Hugo

May 31-1916.
48-Hyatt

Pipe SE Hugo & Orange

June 6-1916
48-Hyatt

Pipe SE Hugo & Orange

Pipe SE Cafon & Hugo

June 30-1916
48-Vernon
Hyatt

Pipe SE Hugo & Orange

Curb stakes Anna E&W Hugo

Sta	+	HI	−	Elev	
BM				357.34	
SW Anna SE Hugo	4.73	362.07	5.37	356.7	
NE&NW "			5.07	357.0	
NE "	Curb Stakes		Hugo -	Steiner South	
BM				352.00	
	3.92	355.92	4.02 4.22	351.70	
BM				342.86	
NE Hugo Klauber	4.15	347.01	4.01	343.0	
SE "			4.51	342.5	
SW "			4.01	343.0	
NW "			3.51	343.5	
BM 200' S of SL Steiner				352.00	
EL. Hugo	5.01	357.01	6.73	350.28	350.4
		5.08 1.92	6.66	350.35	
	Center E&W		Hugo		
BM				311.02	
NE Hugo Center	2.67	313.69	8.29	305.4	
NW			8.69	305.0	

June 30, 1916
4S - Yerman
Hyatt

64

Pipe SE Hugo & Anna

July 11, 1916
4S - Hyatt - Wright

B.P. NW Hugo & Steiner

Pipe SE Klauber & Hugo

"Dady" Aug 19 - 1916
4S - Wright
Hyatt at Home

Pipe NE Hugo & Center

Curb Stakes Klauber E+W of Hugo

	+	H.I.	−	Elev
B.M.				342.86
S.E. Cor. Hugo & Klauber.	3.83	346.69	4.19	342.5
S.W. Cor. Hugo & Klauber.			3.69	343.0
136' East Hugo on South			7.40	339.29
N.E. Hugo & Klauber			3.69	343.0
N.W. " "			3.19	343.5
B.M. 136' East Hugo on North.				342.86
	1.01	343.87	4.09	339.78

Curb Stakes Hugo Klauber-Castle

B.M.				335.35
T.P.	2.13	337.48	8.61	328.87
N.E. Cor Castle & Hugo	3.76	332.63	5.63	327.0
N.W. Cor " "			6.63	326.0
T.P.				328.87
E.L. Hugo 300' South S.L. Castle W.L. Hugo " "	8.70	337.57	5.11	332.46
			4.91	32.66
T.P.			0.21	337.36
B.M.	9.07	4643	3.53	342.90 42.86 Should be

July 13.16.
Hyatt & Wight.

65

Pipe 27' S.E. of 6x6 S.E. Hugo & Klauber.

Pipe 27' S.E. of 6x6 S.E. Hugo & Klauber.

Hyatt & Wight July 18, 1916.

Pipe S.E. Castle & Hugo

Spike in power pole S.W. Castle & Hugo

Spike in power pole S.W. Castle & Hugo

Peg

Pipe 27 S E 6x6 Hugo Klauber

Curb Stakes Hugo Castle–Howard

	+	H.I.	−	Elev
T.P.				328.87
S.W. Cor Castle & Hugo	3.02	331.89	4.89	327.0
S.E. Cor. " "			3.89	328.0
B.M. N. E Cor. Howard & Hugo	3.22	334.88	4.88	330.0
N.W. Cor. " "			4.88	330.0
B.M. 300' N of N.L. Howard. East	3.16	334.82	4.15	331.66 330.67
B.M. 300' N of N.L. Howard. West.	3.96	335.62	5.05	331.66 330.57
T.P.			6.77	28.85
				28.87 Should be
				.02
	Finish Stakes.			
B.M. N.E. Cor. Chatham & Hugo	6.16	308.66	10.46	302.5 298.2
N.W. Cor. " "			10.26	298.4

July 19, 1916.
Hyatt ↑ Wight
66

Spike in power pole S.W. Hugo & Castle.

Pipe 33' N.E. 6x6 N.E. Hugo & Howard.

Hyatt ↑ Wight. July 20, 16.

Pipe 33' N.E. 6x6 N.E. Hugo & Howard.

Center of curve M = 33

Pipe 33' N.E. 6x6 N.E. Hugo & Howard.

Center of curve M = 42

Spike in power pole S.W. Hugo & Castle.

Pipe 5' E of S.E. Chatham & Hugo

Curb Stakes Howard E+W of Hugo.

	+	H.I.	−	Elev	
				331.66	Pipe 32' N.E. of 6x6' N.E. Howard + Hugo.
N.E. Cor. Hugo + Howard	3.11	334.77	4.77	330.00	
N.W. Cor. "			4.77	330.00	
S.E. "			5.27	329.5	
S.W.			5.27	329.5	

Curb Stakes Hugo Howard S to Clark.

BM				320.57	Pipe SE Clark + Howard
SE Hugo Clark	474	531	4.91	320.4	
NE " "	471	325.28	4.48	320.8	
NW + " SE "			4.88	320.4	
BM.				320.57	Pipe SE Clark + Hugo
SE Hugo Clark	533	325.90	5.50	320.4	
SW " "			5.90	320.0	
B.M.				311.02	Pipe 52' N.E. 6x6' N.E. Hugo + Centre
N.E. Cor Hugo + Centre	0.78	311.80	6.40	305.4	
N.W.			6.80	305.0	
S.E.			7.00	304.8	
S.W.				304.4	

48 - Aug 7/16 Hyatt Laforce Jr - Gunn D Hamacourt

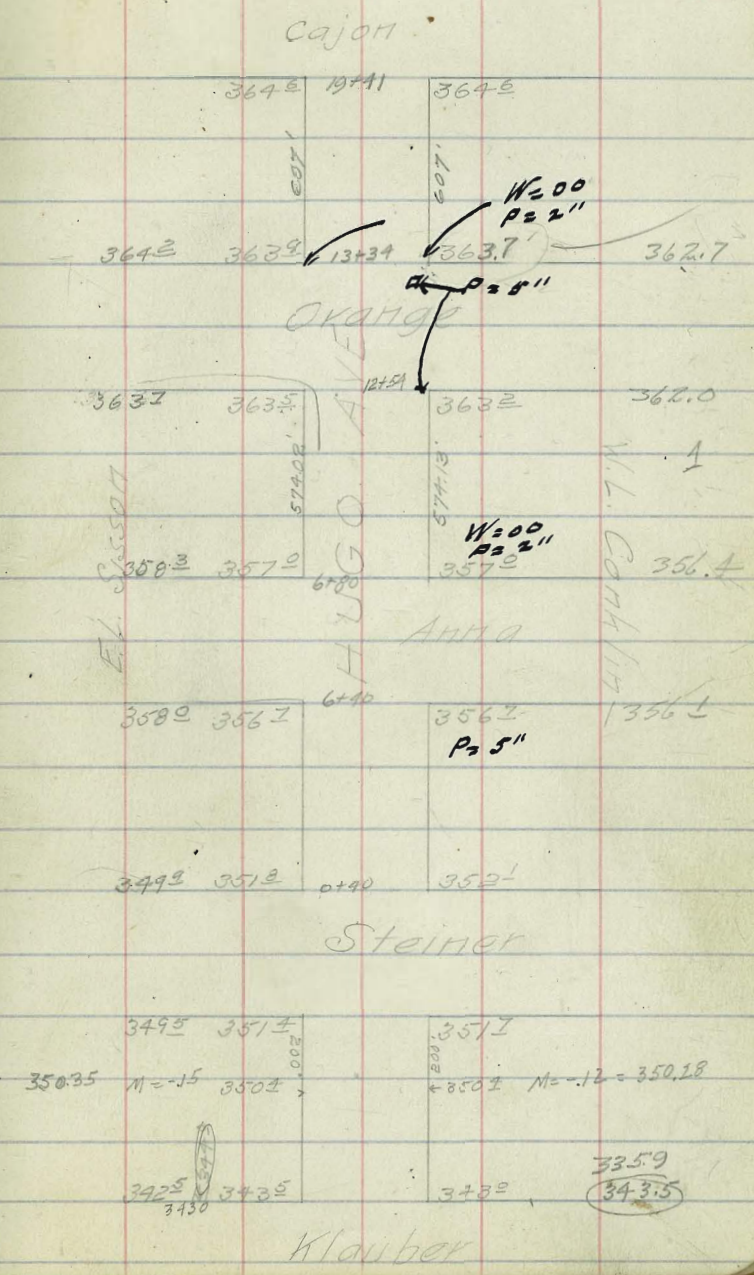
Aug 9-16 48 - Hyatt Wight

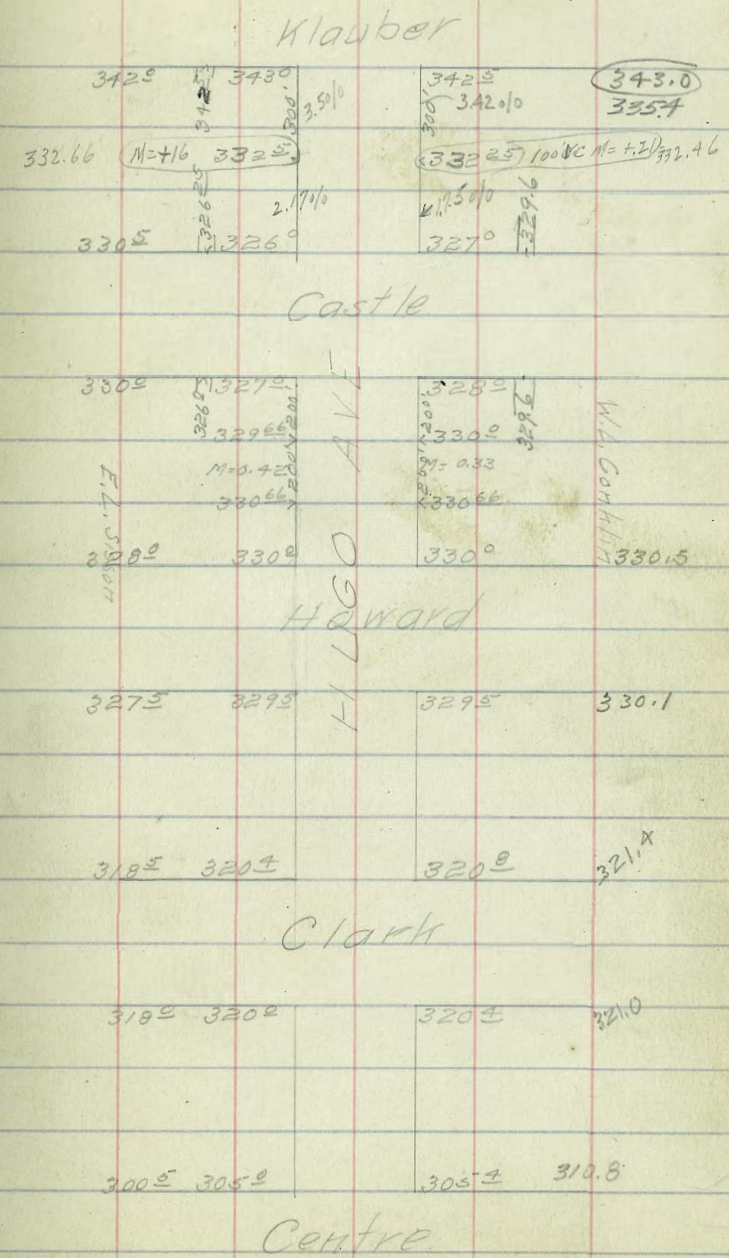
Hyatt Aug 10/16 Wight.

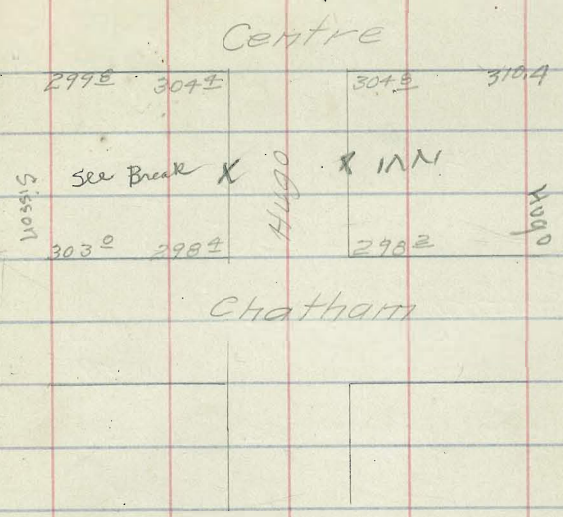
Castle & Hugo

Sept 11-1916
48-Hyatt

Sta	+	HI	−	Elev	
T.P.				328.87	
S.W. Curb stake	2.07	330.94	3.94	327.00	
				326.25	
B.M.				352.00	BP N W




Klauber
342.0
343.0
342.5
343.0
335.4
3.5 o/o
3.42 o/o
332.66
M=+16
332.5
332.25
100' VC M=+.21
332.46
2.17 o/o
1.75 o/o
330.5
326.0
327.0
329.6
Castle
330.0
327.0
328.0
329.66
330.0
M=0.42
M=0.33
330.66
330.66
328.0
330.0
330.0
330.5
E.L. Sisson
W.L. Conklin
HUGO AVE
Howard
327.5
329.5
329.5
330.1
318.5
320.4
320.8
321.4
Clark
318.0
320.0
320.4
321.0
300.5
305.0
305.4
310.8
Centre


Centre
299.8
304.4
304.8
310.4
See Break
Hugo
Hugo
Sissons
303.0
298.4
298.2
Chatham

Hyatt Wight Aug. 11.16.

71

Finish Stakes Hugo & Centre.

		H.I.		Elev.	
N.W. Cor.	4		—	305.0	
S.W.	5.35	310.35	5.35	(305.0)	.6 above grade C.O. 6
S.E.			4.55	(305.8)	1.0 above grade C.1.0.

Hyatt Wight Aug 14, 1916.

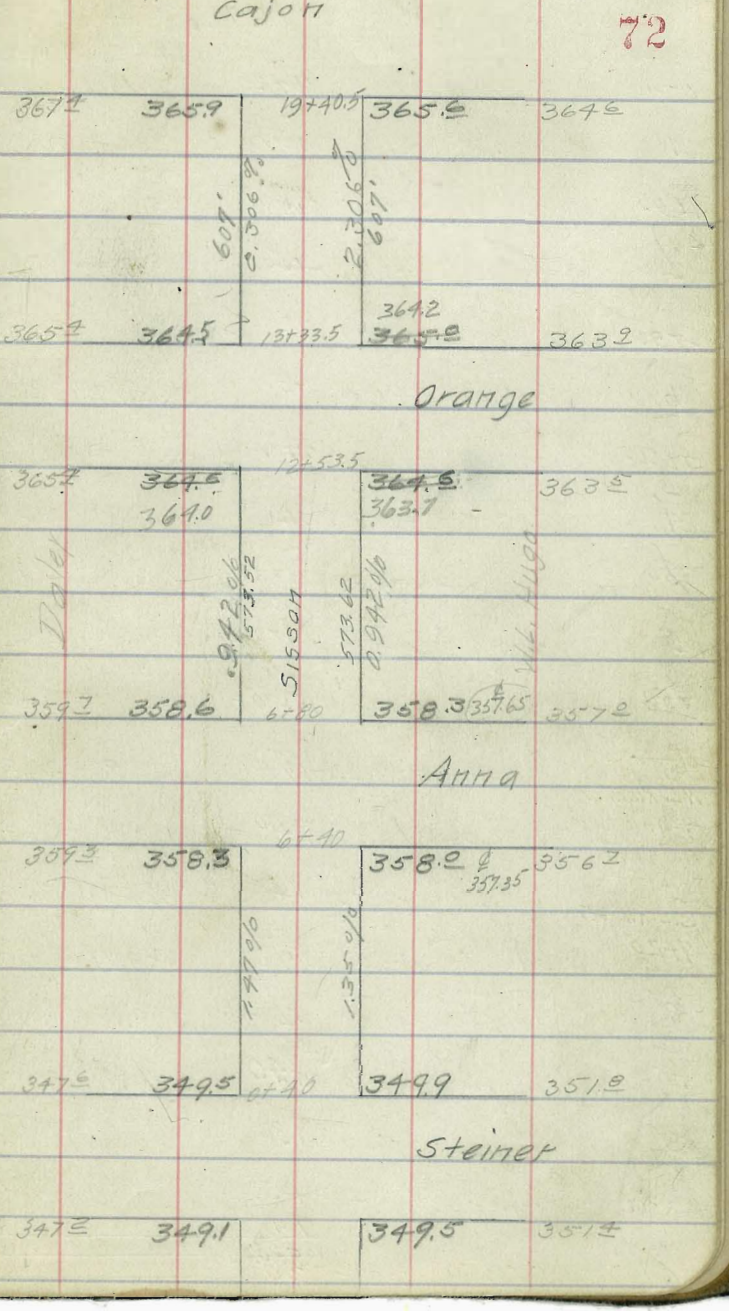
Resetting Curb Stake. Hugo Clark & Centre

B.M.				320.57	Pipe S.E. Clark & Hugo
S.W. Cor. Hugo & Clark.	4.80	325.37	5.37	320.0	
S.E. Cor.			4.97	320.4	
B.M.				311.02	Pipe 52' N.E. 6x6 N.E. Centre & Hugo.
T.P.	1.88	312.90	7.10	305.80	Cut Stake S.E. Cor.
N.W. Cor Centre & Hugo	4.21	310.01	5.01	305.0	

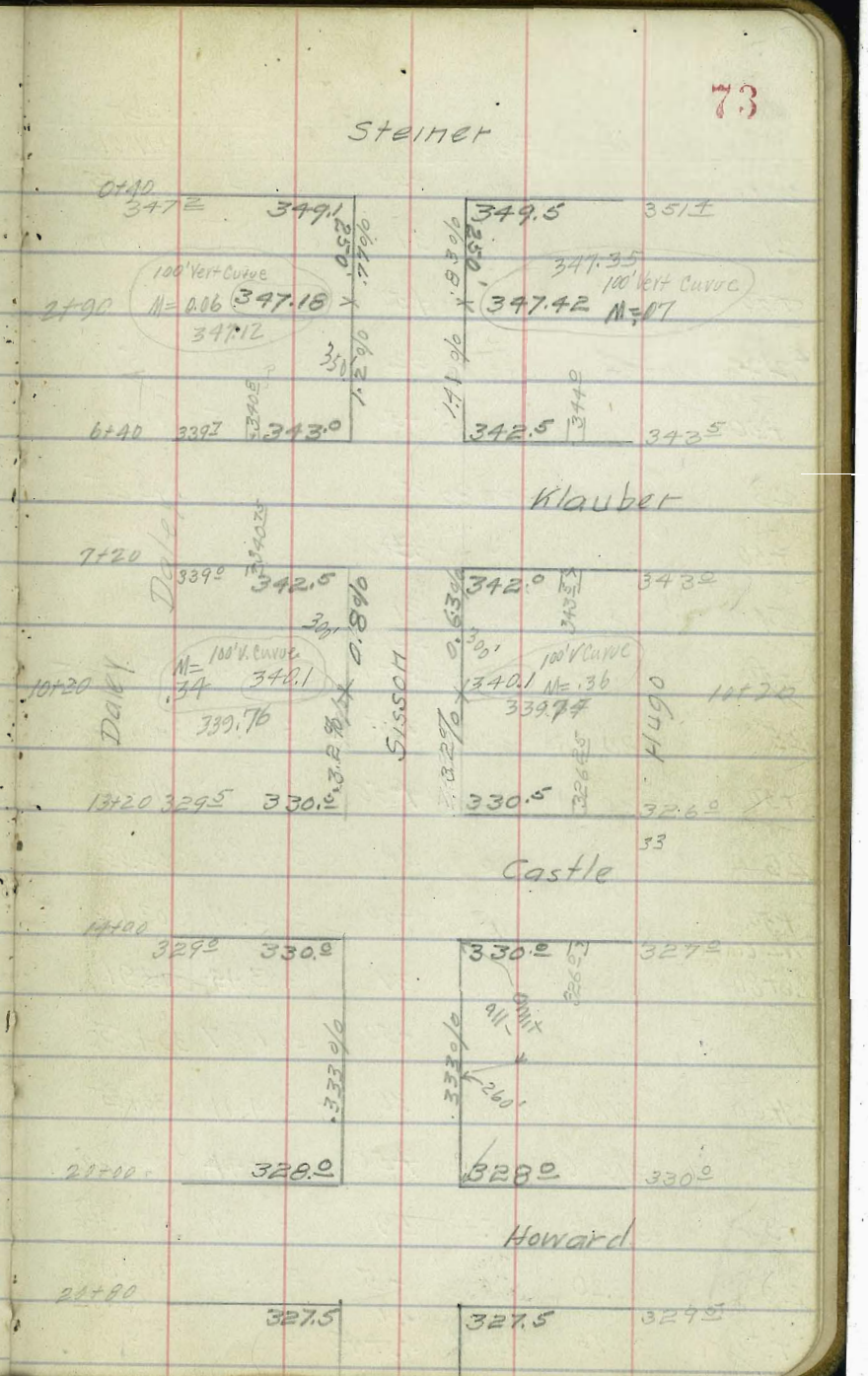
Curb Stakes Centre E & W Hugo

N.W. Cor. Hugo & Centre				305.0
S.W. Cor	5.57	310.57	~~6.17~~	~~304.4~~
S.E. Cor.			5.77	304.8
S.W.	5.06		5.46	304.4

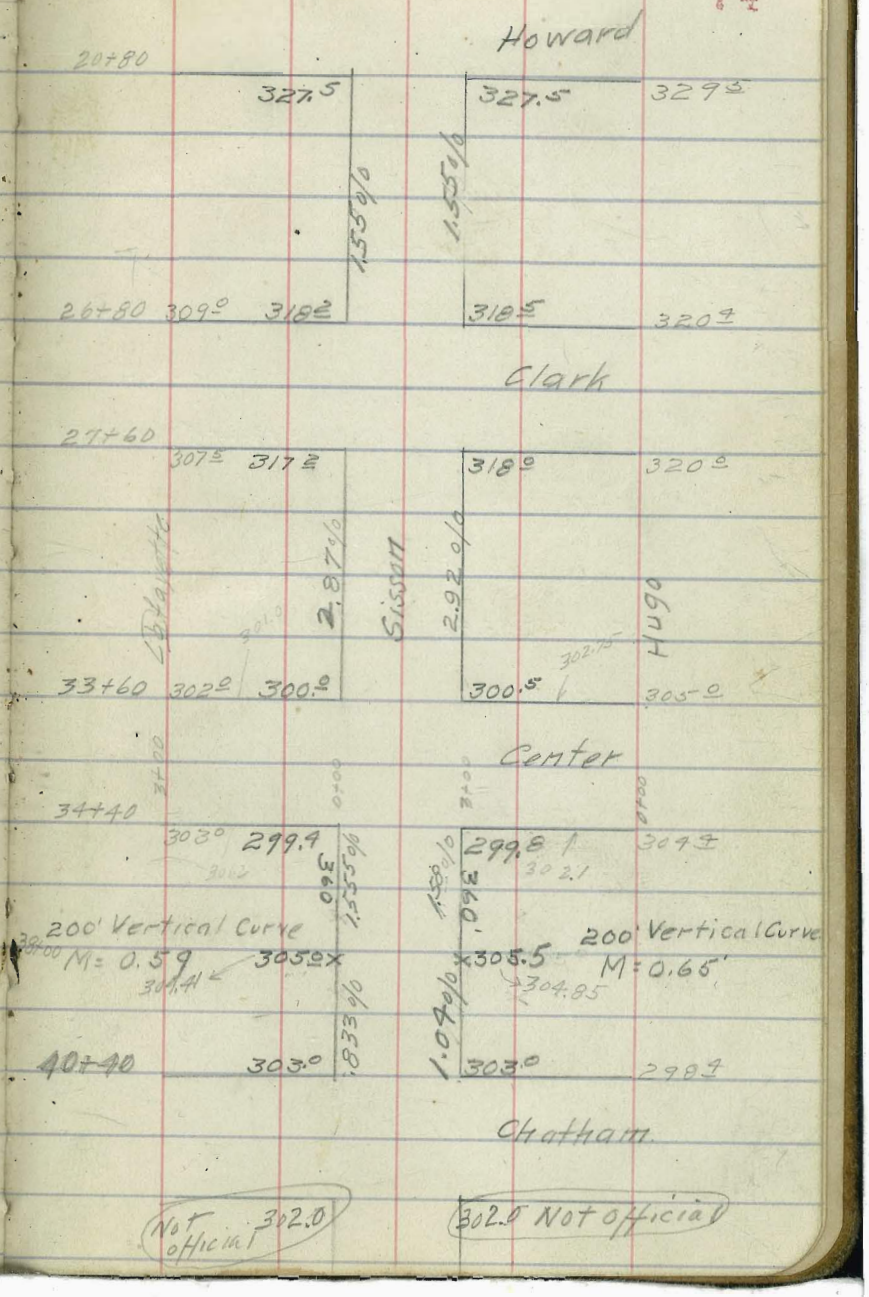
	West	East		West	East
			19+40.57	365.9	365.6
	West	East	19	365.79	365.49
			18+50	365.68	365.38
			18	365.57	365.27
7+50	359.26	358.96	17+50	365.45	365.15
7	358.79	358.49	17	365.34	365.04
N.L. Anna.					
6+80	358.6	358.3	16+50	365.22	364.92
			16	365.11	364.81
S.L. Anna					
6+40	358.3	358.0	15+50	364.99	364.69
6	357.73	357.43	15	364.88	364.58
5+50	356.99	356.78	14+50	364.76	364.46
5	356.26	356.11	14	364.65	364.35
			N.L. Orange		
4+50	355.52	355.43	13+33.57	364.5	364.2
4	354.79	354.76			
			S.L. Orange		
3+50	354.05	354.08	12+53.57	364.6	363.7
3	353.32	353.41	12	363.99	363.19
2+50	352.58	352.73	11+50	363.02	362.72
2	351.85	352.06	11	362.55	362.25
1+50	351.11	351.38	10+50	362.08	361.78
1	350.38	350.71	10	361.61	361.31
N.L. Steiner					
0+40	349.5	349.9	9+50	361.14	360.84
			9	360.67	360.37
			8+50	360.20	359.90
			8+00	359.73	359.43



	West	East		West	East
SL Steiner			10	340.17	340.18
0+40	349.1	349.5	10+20	339.76	339.74
			+50	339.08	339.08
1	348.64	349.00	+70	338.50	338.50
1+50	348.26	348.59	11	337.54	337.54
2	347.87	348.17	+50	335.94	335.94
+40	347.56	347.84	12	334.34	334.34
+90	347.12	347.35	+50	332.74	332.74
3+40	346.58	346.71	13	331.14	331.14
			N.L. Castle		
4	345.86	345.86	13+20	330.50	330.5
+50	345.26	345.15			
			S.L. Castle		
5	344.66	344.45	14+00	330.0	330.0
+50	344.06	343.74	14+00 - 17+40	omitted	
6	343.46	343.04	17+40	328.86	328.86
N.L. Klauber					
+40	343.0	342.5	18	328.66	328.66
			+50	328.49	328.49
S.L. Klauber					
7+20	342.5	342.0	19	328.33	328.33
+50	342.26	341.82			
8	341.86	341.5	+50	328.16	328.16
			N.L. Howard		
+50	341.46	341.18	20	328.0	328.0
9	341.06	340.87			
+50	340.66	340.55			
+70	340.50	340.42			



	West	East		West	East
S.L. Howard.			30	310.33	311.01
20+80	327.5	327.5	+50	308.89	309.55
21	327.18	327.2	31	307.46	309.09
+50	326.41	326.45	+50	306.02	306.63
22	325.64	325.70	32	304.59	305.17
+50	324.86	324.95	+50	303.15	303.71
23	324.09	324.20	33	301.72	302.25
+50	323.31	323.45	N.L. Center 33+60	300.	300.5
24	322.53	322.70			
+50	321.76	321.95	S.L. Center 34+40	299.4	299.8
25	320.98	321.20	35	300.33	300.75
+50	320.21	320.45	+50	301.11	301.54
26	319.43	319.70	36	301.88	302.33
+50	318.66	318.95	+50	302.67	303.12
N.L. Clark. 26+86	318.2	318.5	37	303.43	303.91
			+50	304.07	304.55
27+60	317.2	318.0	38 V.C.	304.41	304.85
28	316.06	316.84	+50	304.44	304.82
+50	314.63	315.38	39	304.17	304.46
29	313.20	313.93	+50	303.75	303.94
+50	311.76	312.47	40	303.33	303.42
			40+40	303.0	303.0



Grades - X Streets E & W of Sisson

Anna - grades

	North	South
Aller East		
1+50	357.65	357.35
2	357.87	357.57
+50	358.09	357.79
E.L. Sisson		
3	358.3	358.0
W.L. Sisson		
0+00	358.6	358.3
+50	358.78	358.47
1	358.96	358.64
Aller West.		
+50	359.15	358.8

Howard - Grades

	North	South
Aller East		
1+50	329.0	328.5
2	328.66	328.16
+50	328.33	327.86
E.L. Sisson		
3	328.0	327.5

Clark - Grades

	North	South
Aller East		
1+50	319.46	319.0
2	319.14	318.64
1+50	318.82	318.33
E.L. Sisson		
3	318.5	318.0

Klauber - Grades

	North	South
Aller East		
1+50	344.0	343.5
2	343.5	343.0
+50	343.0	342.5
E.L. Sisson		
3	342.5	342.0
W.L. Sisson		
0+00	343.0	342.5
0+50	342.26	341.91
1	341.53	341.33
Aller West.		
+50	340.8	340.75

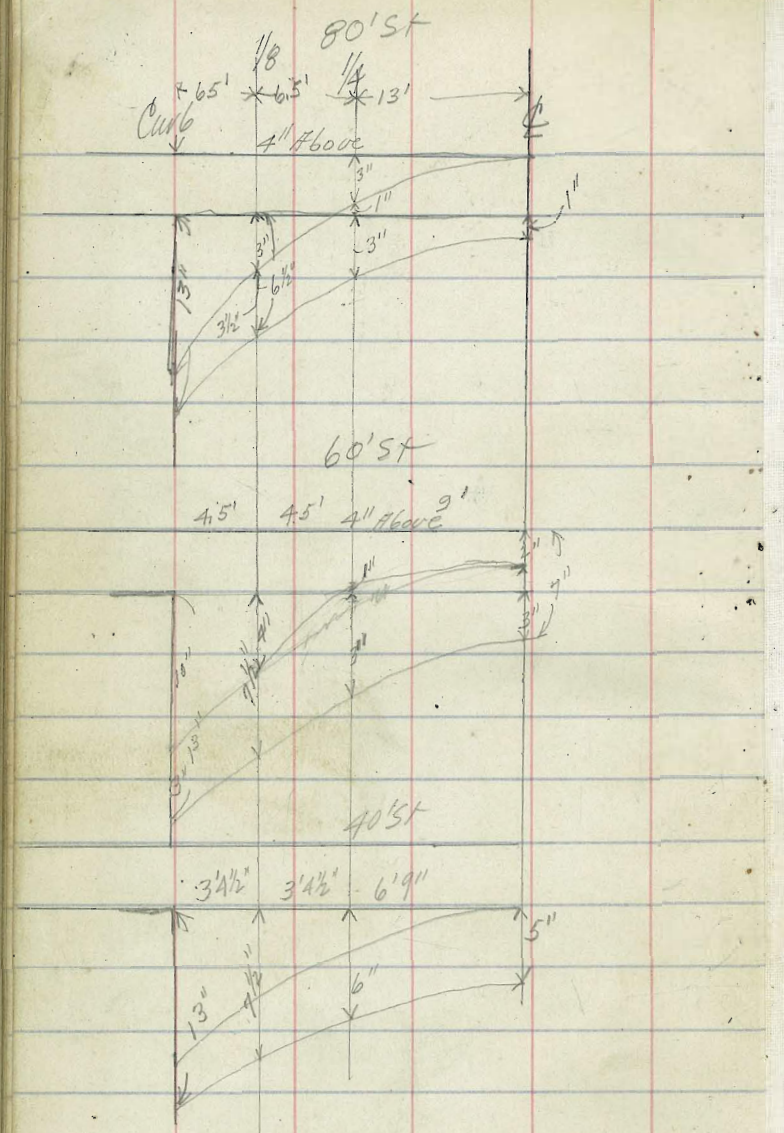
W.L. Sisson		
0+00	318.2	317.2
+50	316.66	315.59
1	315.13	313.97
Aller West.		
+50	313.6	312.35

E & W of Sisson

Center Grades

	North	South		
Alley East				
1+50	302.75	302.1		
2	302.00	301.34	14.02	288.00
+50	301.25	300.57		
E.L. Sisson				
3+00	300.5	299.8	East	139.68
				5.61
				1.00
				146.29
W.L. Sisson				6.61
0+00	300.00	299.4		152.90
0+50				
1				
Alley West				
1+50	301.0	301.2		

1039.24
453.19
585.05



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