University Heights Sewer

#1

398

TRANSIT

F.B. 167

167

Table showing the difference of latitude and departure in running 80 chains at any course from 1 to 60 minutes.

Minutes	Lks.	Minutes	Lks.	Minutes	Lks.
1	2⅓	21	49	41	95⅔
2	4⅔	22	51⅓	42	98
3	7	23	53⅔	43	100⅓
4	9⅓	24	56	44	102⅔
5	11⅔	25	58⅓	45	105
6	14	26	60⅔	46	107⅓
7	16⅓	27	63	47	109⅔
8	18⅔	28	65⅓	48	112
9	21	29	67⅔	49	114⅓
10	23⅓	30	70	50	116⅔
11	25⅔	31	72⅓	51	119
12	28	32	74⅔	52	121⅓
13	30⅓	33	77	53	123⅔
14	32⅔	34	79⅓	54	126
15	35	35	81⅔	55	128⅓
16	37⅓	36	84	56	130⅓
17	39⅔	37	86⅓	57	133
18	42	38	88⅔	58	135⅓
19	44⅓	39	91	59	137⅔
20	46⅔	40	93⅓	60	140

Return to City Engineers Office
City Hall, San Diego, Cal.

TABLE FOR RUNNING ON SLOPES.

MICROFILMED

In the following table the first column shows the angle, the second the number of links to be added to a chain on the slopes, to make one chain, horizontal measurement.

DEC 7 1964

Angle	Cor. in Links	Angle	Cor. in Links	Angle	Cor. in Links	Angle	Cor. in Links
°		°		°		°	
4	0.24	11	1.88	18	5.14	25	10.54
5	0.38	12	2.24	19	5.76	26	11.26
6	0.55	13	2.63	20	6.42	27	12.24
7	0.76	14	3.06	21	7.11	28	13.37
8	0.98	15	3.53	22	7.85	29	14.34
9	1.24	16	4.02	23	8.64	30	15.47
10	1.55	17	4.56	24	9.47	35	22.07

Return to City Engineers Office
City Hall, San Diego, Cal.
167

University Heights Sewer System

✓ Levels from the intersection of the centre line of University to the Pavilion

7/29/01

Turnsey { Williams, Rod / Falkenstein Cham

5th and University Ave, Hence along ave., El Cajon ave, and Park Boulevard

2

Sta.	B.S.	H.I.	F.S.	Rod	Elev		
B.M.	1.95	291.83			289.88	Spk. S.W. cor 5th & University	289.88
							1.95
0				1.9	289.9	Centre 5th & University	291.83
+40				2.1	289.7	East line 5th	8.22
+90				2.7	289.1		283.61
1+40				4.7	287.1		5.64
+90				6.1	285.7		289.25
2+39				7.6	284.2	West line 6th St (Crittenden)	
+50				8.0	283.8		
+97				8.7	283.1	East line 6th (Crittenden)	
3+05				8.8	283.0	" " (Estudillo)	
+50				8.7	283.1		
4+00				8.4	283.4		
+50				8.2	283.6		
5				8.0	283.8		
+50				7.8	284.0		
T.P.	5.64	289.25	8.22		283.61		
+98.5				5.2	284.0	West line 7th (Crittenden)	
6+50				5.1	284.1		
6+64.5				5.1	284.1	East " " "	
7+00				4.9	284.3		
50				4.8	284.4		
	5.59 ✓		8.22 ✓				

Sta	B.S.	H.I.	F.S.	Rod	Elev	
	7.59		8.22			
8+00		289.25		4.6	284.6	
+50				4.3	284.9	
+95				4.2	285.0	West line 8th (Estudillo)
9				4.2	285.0	
+50				4.2	285.0	
+65				4.2	285.0	= {East " " " West " " (Castlenden)
10				4.4	284.8	
+31				4.7	284.5	East line 8th (Castlenden)
+50				4.8	284.4	
11				5.2	284.0	
+50				5.6	283.6	
12				5.9	283.3	
+25				6.1	283.1	West line 9th, Estudillo
+31				6.1	283.1	West line 9th, Castlenden
+50				6.1	283.1	
T.P.	4.27	287.37	6.15		283.10	
+95				4.3	283.1	East line 9th, Estudillo
+97				4.3	283.1	" " " Castlenden
13				4.3	283.1	
+50				4.5	282.9	
14				4.7	282.7	
+50				4.9	282.5	
	11.86		14.37			

289.25
6.15
283.10
4.27
287.37

287.37
4.37
283.00

294.34
4.39
289.95

Sta	B. S.	H. I.	F. S.	Rod	Elev	
	11.86		14.37			
		287.37				
15				5.1	282.3	
+50				5.3	282.1	
B.M.				4.37	283.00	Spike N.W. cor. university & 10th
+54				5.3	282.1	West line 10th St.
16				4.8	282.6	
+39				4.4	283.0	East " " " (avenue)
+50				4.2	283.2	
17				3.5	283.9	
+50				2.9	284.5	
18				2.0	285.4	
+50				1.3	286.1	
19				0.5	286.9	
T.P.	8.22	294.34	1.25		286.12	
+50				6.7	287.6	
20				6.0	288.3	
+50				5.3	289.0	
21				4.6	289.7	
B.M.				4.39	289.95	Bldg. S.W. cor. University & Vermont
+19				4.3	290.0	West line Vermont St.
+50				3.9	290.4	
+99				3.4	290.9	East " " "
	20.08		15.62			

287.37
1.25
286.12
8.22
294.34

27.99
50
28.79

Sta.	B.S.	H.I.	F.S.	Rod	Elev	
	28.08		15.62			
		294.34				
22+50				2.8	291.5	
23				2.2	292.1	
+50				1.7	292.6	
24				1.1	293.2	
+50				0.6	293.7	
T.P.	8.24	301.60	0.98		293.36	
25				7.3	294.3	
+50				6.8	294.8	
26				6.2	295.4	
+50				5.7	295.9	
27				5.1	296.5	
+50				4.6	297.0	
+99				4.0	297.6	West line Maryland St
28+50				3.5	298.1	
+79				3.3	298.3	East line " "
29				3.1	298.5	
+50				2.6	299.0	
30				2.1	299.5	
+50				1.6	300.0	
31				1.2	300.4	
+50				0.7	300.9	
	28.32 ✓		16.60 ✓			

294.34
0.98
293.36
8.24
301.60

35+66
50
36+46

Sta	B.S.	H.I.	F.S.	Dist	Elev	
	28.32	(301.60)	16.60			
T.P.	7.71	308.12	1.19		300.41	
31+99				6.8	301.3	West line El Cajon ave.
32+50				6.2	301.9	
33				5.7	302.4	
+45				5.0	303.1	North line El Cajon Ave
+50				5.0	303.1	
34				4.3	303.8	
+50				4.0	304.1	
35				3.2	304.9	
+50				2.6	305.5	
+66				2.6	305.5	South line Blaine ave
36				2.2	305.9	
+46				1.5	306.6	North " " "
+50				1.5	306.6	
37				1.3	306.8	
+50				0.8	307.3	
T.P.	8.26	315.52	0.86		307.26	
38				7.7	307.8	
+50				7.3	308.2	
39				6.8	308.7	
+50				6.3	309.2	
	44.29		18.65			

+301.60
1.19
300.41
7.71
+308.12
0.86
307.26
8.26
+315.52

Sta	B. S.	H. I.	F. S	Dist.	Elev	
	44.29	315.52	18.65			
40				5.8	309.7	
+50				5.3	310.2	
41				4.5	311.0	
+50				4.1	311.4	
42				2.8	312.7	
+46				1.5	314.0	South line Lincoln ave.
+50				1.4	314.1	
T. P.	11.34	326.13	0.73		314.79	
43				10.2	315.9	
+26				9.2	316.9	North line Lincoln ave.
+50				8.3	317.8	
44				5.6	320.5	
+50				3.2	322.9	
45				1.2	324.9	
T. P.	11.80	336.94	0.99		325.14	
+50				9.4	327.5	
46				6.5	330.4	
+50				4.3	332.6	
47				1.7	335.2	
T. P.	11.84	348.57	0.21		336.73	
+50				10.9	337.7	
48				8.6	340.0	
	79.27		20.58			

315.52
0.73
314.79
11.34
326.13
0.99
325.14
11.80
336.94
0.21
336.73
11.84
348.57

348.57
3.94
344.63 S.E Campus & Park Boul

49+26
80
50.06

79
66
[illegible]

348.57
[illegible]
344.53

344.79 By David's Notes
344.63
0.16 diff

Sta	B. S.	H. I.	F. S.	Rod	Elev	
	79.27	348.57	20.58			
48+50				6.8	341.8	
49				5.2	343.4	
+26				4.6	344.0	South line Campus ave.
+50				4.1	344.5	
50				3.3	345.3	
+06				3.5	345.1	North line Campus ave.
B.M.				4.04	(344.53)	Plug N.E. cor Campus & Park Boul.
+50				3.6	345.0	
51				3.3	345.3	
+50				3.8	344.8	
52				3.9	344.7	
+50				3.9	344.7	
53				3.6	345.0	
+50				3.6	345.0	
T. P.	4.05	349.29	3.33		345.24	
54				4.4	344.9	
+50				4.7	344.6	
55				4.8	344.5	
+50				4.9	344.4	
56				4.9	344.4	
+50				4.8	344.5	
	83.32		23.91			

348.57
3.33
345.24
4.05
349.29

343.85 Records Note
343.71
0.14 diff

349.29
5.58
343.71 Nail in Telephone pole at Jog in Normal school grounds

Sta	B.S.	H.I.	F.S.	Rod	Elev	
	83.32	349.29	23.91			
57				4.5	344.8	
+50				4.7	344.6	
58				4.7	344.6	
+48						South line Cajon ave
+50				5.1	344.2	
59				5.5	343.8	
+50				5.7	343.6	
60				5.8	343.5	
+10.5						north line cajon ave
T.P.	4.35	346.56	7.08		342.21	
+50				4.3	342.3	
61				4.7	341.9	
+50				5.5	341.1	
62				6.0	340.6	
+50				6.5	340.1	
63				6.1	340.5	
+50				5.7	340.9	
64				5.6	341.0	
+50				5.6	341.0	
65				5.6	341.0	
+50				5.0	341.6	
66				4.8	341.8	
B.M.	7.11 87.67	348.07	5.60 36.59		340.96	Bly S.E. cor Park Boul and Jackson

349.29
7.08
342.21
4.35
346.56
5.60
340.96
7.11
348.07

87.67 340.96
36.59 289.88
51.08 ✓ 51.08 ✓

346.56
5.60
340.96

Bly S.E. Cor Park Boul. and Jackson

341.00 Davids Note
340.96
5.14 diff

Runnoey { Williams, Rod
Falkenstein, Chain

72+97
80
73+77

66+17
80
66+97

Sta	B.S.	H.I.	F.S.	Rod	Elev		
		348.07					
66+17				6.2	341.9	South line of Jackson Ave.	348.07
+50				6.2	341.9		4.02
+97				6.0	342.1	North " " "	344.05
67				6.0	342.1		7.57
+50				5.7	342.4		351.62
68				5.4	342.7		
+50				5.2	342.9		
69				5.0	343.1		
+50				4.8	343.3		
70				4.5	343.6		
+50				4.4	343.7		
71				4.2	343.9		
+50				4.0	344.1		
72				4.0	344.1		
+50				3.7	344.4		
B.M.	7.57	351.62	4.02		344.05	New Plug S.E. Park Boul + Monroe	(344.16)
97				7.1	344.5	South line Monroe	
73+50				7.0	344.6		
+77				7.0	344.6	North " "	
74				6.7	344.9		
+50				6.3	345.3		

79+78
80
80+58

Sta	B.S.	H.I.	F.S.	Rod	Elev	
		351.62				
75				6.2	345.4	
+50				5.9	345.7	
76				5.9	345.7	
+50				5.3	346.3	
77				4.7	346.9	
+50				3.9	347.7	
78				3.3	348.3	
+50				2.5	349.1	
79				1.7	349.9	
+50				1.1	350.5	
B.M.	8.81	358.82	1.61		350.01	Bldg S.W. Cor. Park Boul & Madison
79+78				8.0	350.8	South line Madison
80				7.6	351.2	
+50				7.0	351.8	
+58				6.9	351.9	North " "
81				6.4	352.4	
+50				6.0	352.8	
82				5.4	353.4	
+50				5.2	353.6	
83				4.8	354.0	
+50				4.5	354.3	

~~B~~ 351.62
1.61
350.01
8.81
~~B~~ 358.82

86+57.6
80
87+37.6

355.42

Sta	B. S.	H. I.	F. S.	Rod	Elev	
		358.82				
84				4.2	354.6	
+50				3.9	354.9	
85				3.5	355.3	
+50				3.4	355.4	
86				3.0	355.8	
+50				2.7	356.1	
B.M.	5.52	360.84	3.50		355.32	Plug S.W. Park Boul. + Adams
57.6				4.7	356.1	South line Adams
87				4.7	356.1	
+37.6				4.8	356.0	North " "
+50				5.2	355.6	
89				5.9	354.9	
+50				6.5	354.3	
+75				7.5	353.3	
+80				8.0	352.8	Edge of Cañon, Slope 45°

~~0~~ 358.82
3.50
355.42 Rivid & Nolin 355.32
5.52
~~0~~ 360.84

Levels, along the Center line of Crittenden's Add) from University 10th St. (University Heights and Ave. to North line of City Park

7/3/01

Runsey { William Rod / Falkenstein

Sta	B.S.	H.I.	F.S.	Rod	Elev
B.M.	1.67	284.67			283.00
-75				2.0	282.7
-39				2.0	282.7
-35				1.7	283.0
-25				3.2	281.5
+16				2.5	282.2
0				4.0	280.7
+12				11.4	273.3
T.P.	0.38	273.35	11.70		272.97
+30				4.5	268.8
+38				10.6	262.7
+50				7.1	266.2
T.P.	3.92	266.16	11.11		262.24
1+00				8.6	257.6
+05				10.4	255.8
T.P.	11.47	276.65	0.98		265.18
+50				10.3	266.3
T.P.	10.19	286.29	0.55		276.10
2.				6.6	279.7
+30				2.8	283.5
+50				2.9	283.4
	27.63		24.34		

Spk N.W. cor. University + 10th

Cent. University (univty Add)

" " (Crittenden's ")

South line University

2+36, Spike

2+07 N Line [illegible] St

	283.00
	1.67
0	284.67
	11.70
	272.97
	0.38
0	273.35
	11.11
	262.24
	3.92
0	266.16
	0.98
	265.18
	11.47
0	276.65
	0.55
	276.10
	10.19
0	286.29

288.10
5.87
282.23 B.M.

Sta	B.S.	H.I.	F.S	Rod	Elev	
	27.63	286.29	24.3			
3				1.7	284.6	
B.M.	3.17	288.10	1.36		284.93	Plug S.E. 18th and Essex
+50				2.8	285.3	3+47 S. line Essex
+75				3.3	284.8	
+80				4.8	283.3	
+95				5.1	283.0	
4				2.7	285.4	
+50				4.5	283.6	
5				4.7	283.4	
+50				5.5	282.6	
6				6.2	281.9	
+30				5.1	283.0	
+50				6.1	282.0	6+45 N. line Robinson
+65				5.6	282.5	
7				6.2	281.9	
B.M.				5.87	282.23	Plug S.E. Robinson + 10th
+30				8.1	280.0	7+25 S. line Robinson
+50				7.1	281.0	
8				7.0	281.1	
+50				6.7	281.4	
9				7.4	280.7	
	30.80		26.70			

~~8~~ 286.29
1.36
284.93
3.17
~~8~~ 288.10

244.95
6.20
238.75 B.2

Sta	B.S.	H.I.	F.S.	Rod	Elev
	30.80	288.10	25.70		
9+50				7.8	280.3
10				10.2	277.9
T.P.	0.43	277.82	10.71		277.39
+25				1.7	276.1
T.P.	0.52	266.37	11.97		265.85
+50				1.3	265.1
T.P.	0.35	255.65	11.07		255.30
+75				2.8	252.8
11				12.0	243.6
T.P.	1.11	244.95	11.81		243.84
+30				13.2	231.7
B.M.				6.20	238.75
+50				6.8	238.1
T.P.	11.33	255.99	0.29		244.66
T.P.	11.34	266.88	0.45		255.54
12				10.5	256.4
+25				2.9	264.0
T.P.	11.21	277.43	0.66		266.22
+50				3.7	274.0
+55				1.2	276.2
T.P.	6.45	283.69	0.19		277.24
	73.54		72.85		

10+25 N. line Thornton

11+05 S. line Thornton

(Crittenden)

11+37 = center line Thornton

Plug, S.E. Thornton & 10th

288.10
10.71
277.39
0.43
277.82
11.97
265.85
0.52
266.37
11.07
255.30
0.35
255.65
11.81
243.84
1.11
244.95
0.29
244.66
11.33
255.99
0.45
255.54
11.34
266.88
0.66
266.22
11.21
277.43
0.19
277.24
6.45
283.69

283.69
5.23
278.46 B.M.

Sta	B.S.	H.I.	F.S.	Rod	Elev	
	73.54	283.69	72.85			
13				5.2	278.5	
+50				3.8	279.9	
14				4.6	279.1	14+06 N. line Cypress
+25				2.8	280.9	
+50				4.5	279.2	14+86 S. line Cypress
15				5.6	278.1	
+50				6.7	277.0	
B.M.				5.23	278.46	Elug, S.E. Cypress + 10th
+60				7.1	276.6	
T.P.	0.21	273.06	10.84		272.85	
16				4.9	268.2	
T.P.	0.29	261.75	11.60		261.46	
T.P.	0.18	250.13	11.80		249.95	
+50				2.1	248.0	
+70				10.6	239.5	
T.P.	0.62	238.82	11.93		238.20	
17				3.8	235.0	
+50				10.2	228.6	17+85 N. line Brooker
18				10.6	228.2	17+98.5, center Brooker (Cuttenden)
+50				11.2	227.6	18+65 S. line Brooker
T.P.	0.79	227.92	11.69		227.13	
	75.63		130.71			

283.69
10.84
272.85
0.21
273.06
11.60
261.46
0.29
261.75
11.80
249.95
0.18
250.13
11.93
238.20
0.62
238.82
11.69
227.13
0.79
227.92

217.25
2.51
214.74 B.M.

Sta	B.S.	H.I.	F.S.	Rod	Elev	
	15.63 ✓	227.92	180.71 ✓			
19				4.1	223.8	
T.P.	0.89	217.26	11.55		216.37	
B.M.				2.51	214.74	Plug S.E. Brooks and 10th
+50				5.5	211.8	
T.P.	2.40	208.05	11.61		205.65	
20				5.5	202.5	
+35				13.0	195.0	
+50				9.4	198.6	
21				1.5	206.5	
T.P.	11.71	219.48	0.28		207.77	
+25				6.4	213.1	
T.P.	11.78	230.98	0.28		219.20	
+50				9.0	222.0	21+67 N. line Myrtle
T.P.	11.68	241.69	0.97		230.01	
T.P.	2.99	243.62	1.06		240.63	
22				0.9	242.7	
+12				0.0	243.6	
+25				0.6	243.0	
+50				7.0	236.6	22+47 S. line Myrtle
T.P.	0.05	232.24	11.43		232.19	
+90				4.0	228.2	
	117.33 ✓		167.69 ✓			

227.92
11.55
216.37 ✓
0.89
217.26 ✓
11.61
205.65 ✓
2.40
208.05 ✓
0.28
207.77 ✓
11.71
219.48 ✓
0.28
219.20 ✓
11.78
230.98 ✓
0.97
230.01 ✓
11.68
241.69 ✓
1.06
240.63 ✓
2.99
243.62 ✓
11.43
232.19 ✓
0.05
232.24 ✓

283.00
264.76
18.24 ✓

372.57
2.56
369.91 B.M.

Sta	B.S.	H.I.	F.S.	Rod	Elev	
		232.24				
23				9.3	222.9	
+20				12.9	219.3	
+50				5.0	227.2	
T.P.	11.71	243.42	0.53		231.71	
24				5.1	238.3	
+20				1.6	241.8	
T.P.	11.71	254.83	0.30		243.12	
+50				2.0	252.8	
T.P.	10.91	265.04	0.70		254.13	
+75				4.6	260.4	24+63 {Intersection alley bet Upar and Brooker, with Barber line 10th St.
25				1.5	263.5	25+17 N line Upar St
T.P.	7.81	272.57	0.28		264.76	
+50				6.0	266.6	
B.M.				2.56	269.91	Plug N.E. cor Upar & 10th.
26				6.4	266.2	
+40				6.8	265.8	North line Park. Edge of Common, Slope 30°
	42.14		1.71			

232.24
0.53
231.71 ✓
11.71
243.42 ✓
0.30
243.12 ✓
11.71
254.83 ✓
0.70
254.13 ✓
10.91
265.04 ✓
0.28
264.76 ✓
7.81
272.57

8 pk

Rumsey Level
Williams, Rod
Falkenstein, Chain

Levels along the center line of 9th St. (Cittenden's add.) from the South line of University ave to the North line of City Park

Sta.	B. S.	H. I.	F. S.	Rod	Elev
B.M.	3.83	286.83			283.00
B.M.				3.40	283.43
−37.5				3.7	283.1
0				4.3	282.5
+44.4				4.8	282.0
+94.4				5.5	281.3
1+24.4				5.2	281.6
+44.4				6.6	280.2
+74.4				9.8	277.0
T. P.	0.04	275.24	11.63		275.20
+94.4				7.0	268.2
2+08.4				11.6	263.6
+44.4				11.5	263.7
T. P.	0.80	264.67	11.57		263.67
+94.4				11.9	252.8
T. P.	4.85	257.76	11.56		252.91
3+44.4				14.5	243.3
+59				11.7	246.1
+94.4				7.3	250.5
4+09				6.3	251.5
+44.4				7.0	250.8
=0	9.52		34.76		

286.83
3.40
283.43 B.M.

Spk N.W. University & 10th
Plug S.E " & 9th
Center "
S. line University

283.00
3.83
0.286.83
11.63
275.20
0.04
0.275.24
11.57
263.67
0.80
0.264.47
11.56
252.91
4.85
0.257.76

S. line Robinson

Sta	B.S.	H.I.	F.S.	Rod	Elev
		257.76			
+30				4.7	253.1
+40				0.9	256.9
T.P.	11.70	268.56	0.90		256.86
=+60				7.4	261.2
+30				1.5	267.1
+50				0.0	268.6
+65				0.6	268.0
1				9.0	259.6
T.P.	1.01	257.87	11.70		256.86
+50				11.3	246.6
T.P.	1.20	247.11	11.96		245.91
2				12.00	235.0
+25				7.3	239.8
+50				6.7	240.4
3				7.7	239.4
+50				15.5	231.6
T.P.	0.52	236.05	11.58		235.53
+85				2.1	233.9
4				1.4	234.6
+50				5.3	230.7
5				9.4	226.6
	14.43		36.14		

Center Robinson

257.76
0.90
256.86 ✓
11.70
268.56 ✓
11.70
256.86 ✓
1.01
257.87 ✓
11.96
245.91 ✓
1.20
247.11 ✓
11.58
235.53 ✓
0.52
236.05 ✓

S. line Robinson

Sta	B.S.	H.I.	F.S.	Rod	Elev
		236.05			
5+40				7.4	228.6
+50				5.1	230.9
+75				1.4	234.6
6				1.2	234.8
+30				6.4	229.6
+60				11.9	224.1
T.P.	2.12	226.35	11.82		224.23
+50				7.6	218.7
1				10.9	215.4
+50				14.5	211.8
T.P.	2.20	216.76	11.79		214.56
2				4.8	212.0
+50				6.0	210.8
+80				3.3	213.5
3				1.6	215.2
+50				3.2	213.6
4				8.3	208.5
+40				13.7	203.1
+50				11.6	205.2
T.P.	4.86	210.46	11.16		205.60
5				7.1	203.4
	9.18		34.77		

N. line Thornton
center "
S. " "

236.05
11.82
224.23
2.12
226.35
11.79
214.56
2.20
216.76
11.16
205.60
4.86
210.46

Sta	B.S.	H.I.	F.S.	Rod	Elev
		210.46			
5+50				9.5	201.0
6				9.3	201.2
+30				10.2	200.3
=0 +60				10.2	200.3
+25				11.4	199.1
+50				8.1	202.4
1				6.3	204.2
+50				4.2	206.3
+80				3.0	207.5
T.P.	2.70	205.24	7.92		202.54
2				0.3	204.9
+30				4.7	200.5
+50				7.0	198.2
3				10.3	194.9
T.P.	1.66	195.10	11.80		193.43
+50				2.8	192.3
+60				5.0	190.1
+70				2.9	192.2
4				3.2	191.9
+35				4.5	190.6
+50				6.9	188.2
	4.36		19.72		

N. line Brookes
Center "
S. " "

~~0~~210.46
7.92
202.54 ✓
2.70
~~0~~205.24 ✓
11.80
193.44 ✓
1.66
~~0~~195.10 ✓

Sta	B. S.	H. I.	F. S.	Rod	Elev
		195.10			
4+65				4.4	190.7
5				4.5	190.6
+50				5.7	189.4
+90				7.7	187.4
6				9.3	185.8
+15				7.2	187.9
+50				7.2	187.9
7				8.5	186.6
+40				9.5	185.6
+80				11.4	183.7
8+08				12.0	183.1
B.M.	11.27	198.53	7.84		187.26
T.P.	11.63	209.60	0.56		197.97
T.P.	11.64	220.53	0.71		208.89
T.P.	8.95	229.24	0.24		220.29
B.M.			4.87		224.37
	43.49		14.21		

N. line Park

Plug. N. E. upar + 9th

Top 4"×4" Post near N. E. cor upar. and 8th

195.10
7.84
B.M. 187.26 ✓
11.27
198.53 ✓
0.56
197.97 ✓
11.63
209.60 ✓
0.71
208.89 ✓
11.64
220.53 ✓
0.24
220.29 ✓
8.95
229.24 ✓
4.87
B.M. 224.37 ✓

8/ Rainey, Level
Williams, Rod
Falkenstein Chain

✓ Levels along the center line from the South line of North line City Park

8th St. (Cullinden's add.) university ave. to the

Sta	B.S.	H.I.	F.S.	Rod	Elev	
B.M.	2.99	286.42			283.43	Plug S.E. 9th and University
B.M.				3.97	282.45	" " " 8th " "
-37.5				1.6	284.8	Center University
0				3.1	283.3	S. line "
+44.4				3.6	282.8	
+94.4				4.9	281.5	
1+44.4				5.1	281.3	
+79.4				3.9	282.5	
+94.4				4.9	281.5	
2+44.4				5.7	280.7	
+74.4				4.2	282.2	
+94.4				5.8	280.6	
3+44.4				5.5	280.9	
+94.4				6.3	280.1	
4+44.4 =0				8.7	277.7	N. line Robinson
+30				8.6	277.8	Center "
+40				9.9	276.5	
T.P.	2.87	278.72	10.57		275.85	Copper tack in 4" x 4" post
B.M.				6.47	272.25	S.W. cor 8th and Robinson
=0 +60				8.3	270.4	
T.P.	1.24	268.01	11.95		266.77	
	7.00		22.52			

278.72
6.47
B.M. 272.25

286.42
3.97
282.45

283.43
2.99
286.42
10.57
275.85
2.87
278.72
11.95
266.77
1.24
268.01

Sta.	B.S.	H.I.	F.S.	Dist	Elev
		268.01			
0+25				7.2	260.8
T.P.	0.91	257.10	11.82		256.19
+50				4.9	252.2
+75				14.0	243.1
1				9.2	247.9
+15				1.5	255.6
T.P.	11.66	267.69	1.07		256.03
+30				7.6	260.1
T.P.	11.22	278.24	0.67		267.02
+50				9.57	268.7
+75				5.2	273.0
2				2.9	275.3
+50				1.9	276.3
+75				0.9	277.3
3				2.0	276.2
+30				2.2	276.0
4				3.0	275.2
+50				4.8	273.4
+70				6.1	272.1
T.P.	0.51	267.69	11.06		267.18
5				2.5	265.2
	25.30		24.62		

268.01
11.82
256.19 ✓
0.91
257.10 ✓
1.07
256.03
11.66 ✓
267.69
0.67
267.02
11.22
278.24 ✓
11.06
267.18 ✓
0.51
267.69 ✓

Sta	B.S.	H.I.	F.S.	Rod	Elev
		267.69			
5+25				6.1	261.6
+50	1			12.3	255.4
T.P.	1.14	257.03	11.80		255.89
+75				9.8	247.2
B.M.				5.21	251.82
T.P.	0.77	246.39	11.41		245.62
6				6.0	240.4
+20				10.4	236.0
+30				6.7	239.7
T.P.	11.26	257.38	0.27		246.12
+55				6.0	251.4
+60				5.4	252.0
0					
+03				4.8	252.6
+04				1.7	255.7
T.P.	11.46	268.40	0.44		256.94
+25				4.3	264.1
T.P.	8.14	275.63	0.91		267.49
+50				6.4	269.2
1				3.6	272.0
+60				2.8	272.8
2				2.8	272.8
	32.77		24.83		

257.03
5.21
251.82 B.M.

Copper tack in 4"x4" post.
N.W. 18th & Thornton

N. line Thornton

Center "

Edge Road

S. line Thornton

Bottom Bank

Top "

267.69
11.80
255.89
1.14
257.03
11.41
245.62
0.77
246.39
0.27
246.12
11.26
257.38
0.44
256.94
11.46
268.40
0.91
267.49
8.14
275.63

242.92
7.87
235.05 B.M

Sta.	B.S.	H.I.	F.S.	Dist	Elev
		275.63			
2+50				3.0	272.6
3				3.4	272.2
+50				4.5	271.1
4				5.6	270.0
+50				8.2	267.4
5				12.1	263.5
T.P.	0.97	265.03	11.57		264.06
+25				3.5	261.5
+50				10.8	254.2
T.P.	1.07	254.15	11.95		253.08
+75				8.8	245.3
T.P.	0.56	242.92	11.79		242.36
6				4.3	238.6
B.M.				7.87	235.05
T.P.	0.26	231.73	11.45		231.47
+30				3.5	228.2
T.P.	0.34	220.76	11.31		220.42
+60				2.6	218.2
=0					
T.P.	7.93	217.03	11.66		209.10
+50				11.3	205.7
+55				13.0	204.0
	11.13		69.73		

N. line Brooks

Plug N.W. 8th + Brooks (235.10)

Center Brooks

S. line "

275.63
11.57
264.06
0.97
265.03
11.95
253.08
1.07
254.15
11.79
242.36
0.56
242.92
11.45
231.47
0.26
231.73
11.31
220.42
0.34
220.76
11.66
209.10
209.10
7.93
217.03

Sta.	B.S.	H.I.	F.S.	Rod	Elev.
		(217.03)			
1				8.8	208.2
+20				5.3	211.7
+50				2.4	214.6
T.P.	11.16	227.88	0.31		216.72
T.P.	11.61	238.76	0.73		227.15
2				7.4	231.4
T.P.	11.20	248.91	1.05		237.71
T.P.	7.41	255.63	0.69		248.22
+50				6.3	249.3
+85				1.0	254.6
3				3.1	252.5
T.P.	0.36	243.06	11.93		242.70
+50				3.1	240.0
T.P.	0.62	232.79	11.89		232.17
T.P.	5.66	226.70	11.75		221.04
4+50				13.0	213.7
+70				8.3	218.4
+90				7.4	217.3
5				6.9	219.8
T.P.	11.15	237.39	0.46		226.24
T.P.	7.06	244.37	0.08		237.31
	66.23		38.89		

217.03
0.31
216.72 ✓
11.16
227.88 ✓
0.73
227.15 ✓
11.61
238.76 ✓
1.05
237.71 ✓
11.20
248.91 ✓
0.69
248.22 ✓
7.41
255.63 ✓
11.93
242.70 ✓
0.36
243.06 ✓
11.89
232.17 ✓
0.62
232.79 ✓
11.75
221.04 ✓
5.66
226.70 ✓
0.46
226.24
11.15
237.39 ✓
0.08
237.31 ✓
7.06
244.37

235.78
11.28
B.M. 224.50

Sta	B.S.	H.I.	F.S.	Dist	Elev	
		(244.37)				
5+50				6.0	238.4	
+85				0.1	244.3	
6				0.6	243.8	
+25				3.0	241.4	
+50				8.9	235.5	
T.P.	2.72	235.76	11.33		233.04	
+75				9.3	236.5	
T.P.	1.55	225.64	11.67		224.09	
7				7.2	218.4	
+25				12.6	213.0	
+50				1.9	223.7	
T.P.	10.64	235.78	0.50		225.14	
+80				0.8	235.0	S. line upat
T.P.	7.11	240.80	2.09		233.69	
8+08				1.1	239.7	N. line Park

~~0~~ 244.37
11.33
233.04 ✓
2.72
~~0~~ 235.76 ✓
11.67
224.09 ✓
1.55
~~0~~ 225.64 ✓
0.50
225.14 ✓
10.64
~~0~~ 235.78 ✓
2.09
233.69 ✓
7.11
~~0~~ 240.80 ✓

8/[illegible]
Rumsey, Level
Williams Rod
Falkenstein Chain

✓ Levels along the center line of 7th St. (Crittenden's add.) from the South line of University Ave to the North line of City Park

286.57
8.95
B.M. 277.62

Sta	B.S.	H.I.	F.S.	Rod	Elev		
B.M.	4.12	286.57			282.45	Plug S.E. 8th and University	282.45
							4.12
-37.5				2.5	284.1	Center University	286.57
0				3.0	283.6	S. line "	10.78
							275.79
+44.4				3.7	282.9		5.16
							280.95
+94.4				4.7	281.9		
1+44.4				4.8	281.8		
+94.4				5.1	281.5		
2+44.4				5.9	280.7		
+94.4				6.9	279.7		
3+44.4				7.9	278.7		
+94.4				8.6	278.0		
4+44.4				10.1	276.5	N. line Robinson	
=0							
B.M.				8.95	277.62	Plug N.W. 7th & Robinson	
+22				10.2	276.4	Foot of bank	
+28				6.3	280.3	Top " "	
+35				6.3	280.3	"	
+41				11.2	275.4	Foot " "	
T.P.	5.16	280.95	10.78		275.79		
=+60				7.0	273.9	S. line Robinson	
0							
+50				10.3	270.6		
+70				9.0	271.9		

Sta.	B.S.	H.I.	F.S.	Rod	Elev	
		(280.95)				
1				5.2	275.7	
+30				7.8	273.1	
+50				7.7	273.2	
+75				5.6	275.3	
2				6.7	274.2	
+50				6.1	274.8	
+75				6.7	274.2	
3				5.3	275.6	
+50				4.2	276.7	
4				3.7	277.2	
+50				3.4	277.5	
+75				4.4	276.5	
5				4.1	276.8	
+50				4.5	276.4	
6				3.5	277.4	N. line Thornton
T.P.	3.39	281.63	2.71		278.24	
+30				4.0	277.6	Center "
+60				3.5	278.1	S. " "
+50				3.3	278.3	
1				2.6	279.0	
+50				2.6	279.0	

~~280.95~~
2.71
278.24
3.39
~~281.63~~

Sta.	B.S.	H.I.	F.S.	Rod	Elev	
		(281.63)				
2				3.2	278.4	
+50				4.9	276.7	
3				5.5	276.1	
+50				6.5	275.1	
4				7.5	274.1	
+50				8.7	272.9	
T.P.	0.59	270.49	11.73		269.90	
+85				2.1	268.4	
5				6.7	263.8	
T.P.	0.27	258.91	11.85		258.64	
T.P.	0.20	247.77	11.34		247.57	
+50				6.3	241.5	
T.P.	0.74	236.80	11.71		236.06	
T.P.	2.78	228.07	11.51		225.29	
6				6.1	222.0	N. Lina Brookes
+10				9.2	218.9	
+30				2.9	225.2	
T.P.	11.49	238.79	0.77		227.30	
+60				4.0	234.8	S. " "
T.P.	11.97	250.10	0.66		238.13	
T.P.	11.73	261.11	0.72		249.38	

281.63
11.73
269.90
0.59
270.49
11.85
258.64
0.27
258.91
11.34
247.57
0.20
247.77
11.71
236.06
0.74
236.80
11.51
225.29
2.78
228.07
0.77
227.30
11.49
238.79
0.66
238.13
11.97
250.10
0.72
249.38
11.73
261.11

Sta	B. S.	H. I.	F. S.	Rod	Elev
		(261.11)			
0+50				6.7	254.4
T. P.	11.62	271.98	0.75		260.36
+65				11.1	260.9
+75				6.1	265.9
1				1.7	270.3
T. P.	11.36	281.98	1.36		270.62
+50				6.3	275.7
2				5.5	276.5
+50				5.7	276.3
3				5.7	276.3
+50				6.1	275.9
4				5.2	276.8
+50				4.5	277.5
5				3.2	278.8
T. P.	6.46	285.55	2.89		279.09
+50				5.8	279.7
6				4.8	280.7
+50				4.6	280.9
7				4.6	280.9
+40				4.2	281.3
+80				3.7	281.8

285.55
1.51
284.04 B.M. N.W. cor
cupal and 7th

(284.15)

~~0~~261.11
0.75
260.36
11.62
~~0~~271.98
1.36
270.62
11.36
~~0~~281.98
2.89
279.09
6.46
~~0~~285.55

Sta.	B.S.	H.I.	H.I.	F.S.	Elev
		(285.55)			
8+08				3.7	281.8
B.M.	9.82	293.86	1.51		284.04
B.M.	3.79	292.47	5.18		288.68
B.M.			7.77		284.70

N. line City Park
Top 4"x4" post at N.W. cor
Ulpan and 7th
N.E. cor Stone monument
at the N.W. cor City Park
Near Pringle's House

285.55
1.51
284.04
9.82
293.86
5.18
B.M. 288.68
3.79
292.47
7.77
B.M. 284.70 chk

Spike in electric Pole
S.W. cor. Walnut & 5th

8/20/01
Pennsey, Level
Williams, Rod
Falkenstein, Chain

✓ Levels along the center line of 6th St., (Cuttenden's) from the South line University Ave., to the North line City Park.

Sta.	B. S.	H. I.	F. S.	Rod	Elev
B.M.	4.08	292.76			288.68
8+10				4.5	288.3
7+80				5.3	287.5
7+40				6.6	286.2
7				6.5	286.3
+50				5.7	287.1
6				4.3	288.5
+50				4.1	288.7
5				3.5	289.3
+50				3.6	289.2
4				4.1	288.7
+70				6.8	286.0
+50				8.6	284.2
3				10.7	282.1
+50				11.9	280.9
2				12.1	280.7
T.P.	1.71	282.55	11.92		280.84
+50				2.6	279.9
+25				3.0	279.5
1				5.4	277.1
+75				9.6	272.9
T.P.	1.27	271.97	11.85		270.70

N.E. Cor Stone Monument at
N.W. " City Park
North line Park

288.68
4.08
0292.76
11.92
280.84
1.71
0282.55
11.85
270.70
1.27
0271.97

249.59
11.65
237.94 B.M.

Sta.	B.S.	H.I.	F.S.	Rod	Elev	
		(271.97)				
0 +60				2.9	269.1	
+50				6.1	265.9	
T.P.	0.56	260.80	11.73		260.24	
+30				2.7	258.1	
T.P.	0.40	249.59	11.61		249.19	
0 = +60				3.6	246.0	S. line Brooker
B.M.				11.65	237.94	Stake near intersection center of Brooker + 6th
+30				15.0	234.6	Center Brooker
+22				13.8	235.8	
6				5.2	244.4	N line Brooker
T.P.	11.46	260.52	0.53		249.06	
T.P.	11.65	271.25	0.92		259.60	
+50				9.4	261.8	
T.P.	11.36	282.31	0.30		270.95	
+08				5.1	277.2	
5				3.9	278.4	
+50				1.4	280.9	
T.P.	10.62	292.22	0.71		281.60	
4				9.7	282.5	
+50				7.8	284.4	
3				6.7	285.5	

~~0~~271.97
11.73
260.24
0.56
~~0~~260.80
11.61
249.19
0.40
~~0~~249.59
0.53
249.06
11.46
~~0~~260.52
0.92
259.60
11.65
~~0~~271.25
0.30
270.95
11.36
~~0~~282.31
0.71
281.60
10.62
~~0~~292.22

292.22
5.26
286.96 B.M.

Sta.	B.S.					
		(292.22)				
+50				4.2	288.0	
+20				3.5	288.7	
2				4.1	288.1	
+50				5.7	286.5	
1				6.9	285.3	
+50				6.6	285.6	
=0 +60				6.0	286.2	S. line Thornton
+30				6.1	286.1	Circle "
6				6.2	286.0	N. line "
B.M.				5.26	286.96	Nick in electric pole N.E. cor. Thornton + 62k
+50				5.4	286.8	
5				4.8	287.4	
+50				4.5	287.7	
T.P.	3.63	292.16	3.69		288.53	
4				4.4	287.8	
+50				5.4	286.8	
3				5.6	286.6	
+50				6.0	286.2	
2				6.1	286.1	
+50				5.9	286.3	
1				6.1	286.1	

~~0~~292.22
3.69
288.53
3.63
~~0~~292.16

Sta.	B.S.	H.I.	F.S.	Rod	Elev
		(292.16)			
+50				5.7	286.5
+30				6.0	286.2
+15				3.9	288.3
+07				6.9	285.3
=0 +60				7.1	285.1
+30				6.6	285.6
=0				6.2	286.0
4+44.4					
+94.4				7.2	285.0
B.M.				5.01	287.15
3+44.4				6.9	285.3
+94.4				7.0	285.2
T.P.	4.43	289.71	6.88		285.28
+69.4				3.5	286.2
2+44.4				4.3	285.4
2+34				4.7	285.0
2+24				4.0	285.7
+944				3.7	286.0
1+44.4				4.1	285.6
1+3.4				4.0	285.7
1				4.6	285.1
+44.4				4.7	285.0
0				5.7	284.0

292.16
5.01
chk. 287.15 B.M. (old)

S. line Robinson
Center "
N. " "

Plug N.W. cor 6th + Robinson

B.M. 286.14 chk
N.W. 6th + University

~~0~~ 292.16
6.88
285.28
4.43
~~0~~ 289.71
3.57

~~0~~ 289.71
- 5.98
283.73
+ 4.76
~~0~~ 288.49
6.05
282.44 chk.

Plug S.E. cor 8th and University.

S. line University (Crittenden)

Levels along the center line of Thornton ave., 6th to 4th (Crittenden)

Ramsey Level
Williams Rod
Falkenstein Chain

Sta.	B.S.	H.I.	F.S.	Rod	Elev	
B.M.	3.89	290.85			286.96	Spike in Electric pole N.E.
0				8.3	282.5	Cor. Thornton and 6th.
0+44.4				6.4	284.4	East line 5th St.
0+94.4				5.8	285.0	
1+44.4				5.4	285.4	
=1+94.4				5.0	285.8	West line 6th St.
0 +27				4.7	286.1	center " "
=0+54				4.3	286.5	East " " "
+50				4.3	286.5	
1				5.1	285.7	
+50				5.9	285.9	
2				8.2	282.6	
+50				10.1	280.7	
=3				11.5	279.3	West line 7th St.
0 T.P.	0.62	280.20	11.27		279.58	
+33				2.0	278.2	
=+66				3.6	276.6	East " " "
0 +50				6.5	273.7	
1				7.6	272.6	
+50				9.1	271.1	
+68				10.5	269.7	

286.96
3.89
0290.85
11.27
279.58
0.62
0280.20

258.76
6.93
251.83 B.M. 8th & Thomas

Sta.	B.S.	H.I.	F.S.	Rod	Elev	
		(280.20)				
+78				18.3	261.9	
2				11.2	269.0	
+15				9.8	270.4	
+30				11.6	268.6	
T.P.	0.93	269.64	11.49		268.71	
+50				8.3	261.3	
T.P.	0.83	258.76	11.71		257.93	
T.P.	0.69	247.73	11.72		247.04	
=30				4.9	242.8	West line 8th St
+15				9.6	238.1	
+33				7.3	240.4	Center " "
+66				5.4	242.3	East " " "
=0						
+50				6.3	241.4	
T.P.	0.92	237.09	11.56		236.17	
1				1.8	235.3	
+20				5.5	231.6	
T.P.	2.80	228.25	11.64		225.45	
+50				6.6	230.5	
+70				10.6	226.5	
=2				7.2	229.9	West line 9th St.
0						
T.P.	10.29	238.14	0.40		227.85	

280.20
11.49
268.71
0.93
269.64
11.71
257.93
0.83
258.76
11.72
247.04
0.69
247.73
11.56
236.17
0.92
237.09
11.64
225.45
2.80
228.25
0.40
227.85
10.29
238.14

Sta.	B.S.	H.I.	F.S.	Rod	Elev	
		(238.14)				
0+33				8.4	229.7	center 9th St
T.P.	11.82	249.43	0.53		237.61	
=+66				7.9	241.5	East line 9th St.
0						
T.P.	11.10	260.23	0.30		249.13	
+35				6.8	253.4	
+50				8.9	256.3	
+80				1.8	258.4	
1				3.5	256.7	
T.P.	0.14	248.61	11.76		248.47	
+50				1.8	246.8	
2				11.0	237.6	
T.P.	5.40	242.36	11.65		236.96	
=+51.5				10.5	231.9	West line 10th
0						
+25				11.7	230.7	
+43.5				8.3	234.1	center "
B.M.			3.64		238.73	Plug S.E. Thornton & 10th

238.14
0.53
237.61
11.82
249.43
0.30
249.13
11.10
260.23
11.76
248.47
0.14
248.61
11.65
236.96
5.40
242.36
3.63
238.73 Ck

8/[illegible]
Rumsey, Level
Williams, Rod
Falkenstein, Chain

✓ Levels along center of Alley from 6th to 10th St. bet Brooker St + North line of Park, (Crittenden's Add[illegible])

Sta.	B.S.	H.I.	F.S.	Rod	Elev		
B.M.	6.80	295.48			288.68	N.E. cor Stone Monument at N.W. cor Park	288.68
-26.5				8.0	287.5	Center 6th St.	6.80
0				6.3	289.2	East line 6th St.	0295.48
+50				4.8	290.7		11.82
1				4.6	290.9		283.66
+50				4.7	290.8		0.51
2				8.6	286.9		0284.17
+50				10.8	284.7		11.97
T.P.	0.51	284.17	11.82		283.66		272.20
3				1.7	282.5	West line 7th	0.44
+33				3.3	280.9	center "	0272.64
=+66				5.0	279.2	East " "	11.94
0 +50				8.0	276.2		260.70
1				11.9	272.3		0.41
T.P.	0.44	272.64	11.97		272.20		0261.11
+50				3.6	269.0		
+90				5.5	267.1		
2				7.2	265.4		
T.P.	0.41	261.11	11.94		260.70		
+50				3.5	257.6		
+75				7.1	254.0		

227.36
2.93
224.43 B.M. 7th St.

Sta.	B.S.	H.I.	F.S.	Rod	Elev	
		(261.11)				
T.P.	0.12	249.39	11.84		249.27	
3				2.4	247.0	West line 8th St.
+33				10.3	239.1	Center " "
T.P.	0.69	238.21	11.87		237.52	
+48				2.7	235.4	
+66				10.0	228.2	West " "
=0						
T.P.	1.03	227.36	11.88		226.33	
T.P.	0.22	215.92	11.66		215.70	
+50				5.7	210.2	
T.P.	0.80	204.95	11.77		204.15	
1				8.6	196.3	
T.P.	1.30	194.84	11.41		193.54	
+50				5.9	188.9	
2				8.3	186.5	West line 9th St.
+10				8.9	186.9	
+15				10.2	184.6	
+23				7.1	187.7	
+33				6.8	188.0	Center "
+48				5.5	189.3	
T.P.	11.23	206.00	0.07		194.77	
=+66				9.5	196.5	East line 9th St.
0						

261.11
11.84
249.27 ✓
0.12
249.39 ✓
11.87
237.52 ✓
0.69
238.21 ✓
11.88
226.33 ✓
1.03
227.36 ✓
11.66
215.70 ✓
0.22
215.92 ✓
11.77
204.15 ✓
0.80
204.95 ✓
11.41
193.54 ✓
1.30
194.84 ✓
0.07
194.77 ✓
11.23
206.00 ✓

43
49.5
92.5

Sta.	B.S.	H.I.	F.S.	Rod	Elev
		(206.00)			
+20				2.3	203.7
T.P.	11.61	215.81	1.80		204.20
+50				3.7	212.1
T.P.	11.49	226.51	0.79		215.02
+65				9.6	216.9
1.				4.0	222.5
T.P.	11.46	237.16	0.81		225.70
+25				9.8	227.4
+50				6.8	230.4
T.P.	11.80	247.16	1.80		235.36
2				8.5	238.7
+20				3.7	243.5
T.P.	11.49	257.66	0.99		246.17
+43				9.1	248.6
+73				5.0	252.7
T.P.	11.67	268.53	0.80		256.86
+92.5				12.1	256.4
T.P.	6.60	273.24	1.89		266.64

West line 10th St.

Center " " "

206.00
1.80
204.20 ✓
11.61
215.81 ✓
0.79
215.02 ✓
11.49 ✓
226.51
0.81
225.70 ✓
11.46
237.16 ✓
1.80
235.36 ✓
11.80
247.16 ✓
0.99
246.17 ✓
11.49
257.66
0.80
256.86
11.67
268.53
1.89
266.64
6.60
273.24
− 3.24
B.M. 270.00

8/5/41
Priestley, Level
Williams, Rod
Falkenstein, Chain

Levels along Center of Brooker St. (Crittenden's) 2+96 from 5th to 10th St.

Sta.	B.S.	H.I.	F.S.	Rod	Elev		
B.M.	11.63	226.37			214.74	Plug S.E. Brooker + 10th St.	214.74
T.P.	11.87	238.16	0.08		226.29		11.63
+96				9.8	228.4	center of 10th St.	0226.37
T.P.	11.39	249.55	0.00		238.16		0.08
+50				0.6	248.0	West line 10th St.	226.29
T.P.	11.72	260.65	0.62		248.93		11.87
T.P.	11.20	271.85	0.00		260.65		0238.16
+06				1.9	270.0		0.00
2				1.4	270.4		238.16
+65				3.7	268.1		11.39
+50				7.7	264.1		0249.55
T.P.	0.64	260.73	11.76		260.09		0.62
T.P.	0.54	249.43	11.84		248.89		248.93
+04				7.0	242.4		11.72
1				8.5	241.9		0260.65
T.P.	0.54	238.40	11.57		237.86		0.00
T.P.	0.30	226.81	11.89		226.51		260.65
+50				6.1	220.7		11.20
T.P.	0.70	215.83	11.68		215.13		0271.85
=0+66				9.6	206.2	East line 9th St.	11.76
T.P.	5.93	209.88	11.88		203.95		260.09
							0.64
							0260.73
							11.84
							248.89
							0.54
							0249.43
							11.57
							237.86
							0.54
							0238.40
							11.89
							226.51
							0.30
							0226.81

0426.81
11.68
415.13
0.70
0415.83
11.88
403.95
5.93
0409.88

B.M. 236.14 / 1.18 / 234.96 N.W. 8th & Brook 235.08

Sta.	B.S.	H.I.	F.S.	Rod	Elev.		
		(209.88)					
+40				9.7	200.2		~~0~~ 209.88
							0.51
+33				9.3	200.6	Center 9th St.	209.37
							11.95
2				4.8	205.1	West line 9th St.	~~0~~ 221.32
							0.39
T.P.	11.95	221.32	0.51		209.37		220.93
							11.54
+50				8.1	213.2		~~0~~ 232.47
							0.65
T.P.	11.54	232.47	0.39		220.93		231.82
							4.32
1				6.7	225.8		~~0~~ 236.14
							11.35
+75				1.9	230.6		224.79
							0.62
T.P.	4.32	236.14	0.65		231.82		~~0~~ 225.41
							11.95
+50				2.4	233.7		213.46
							8.31
+25				1.1	235.0		~~0~~ 221.77
=0+66				3.1	233.0	East line 8th St	
+33				8.0	228.1	Center " " "	
T.P.	0.62	225.41	11.35		224.79		
3				2.0	233.4	West " " "	
+85				3.7	221.7		
+50				11.3	214.1		
T.P.	8.31	221.77	11.95		213.46		
+20				13.3	208.5		
2				11.2	210.6		
+50				8.5	213.3		

241.99
4.08
B.M. 237.91 (237.94)

Sta.	B.S.	H.I.	F.S.	Rod	Elev.	
		(221.77)				
1				6.2	215.6	
+80				4.8	217.0	
+50				6.7	215.1	
=0 +66				1.5	220.3	East line 7th St
T.P.	11.38	232.33	0.82		220.95	
+33				7.1	225.2	Center " "
3				8.9	223.4	West " "
+85				11.9	220.4	
+58				10.1	222.2	
+50				9.3	223.0	
2				6.4	225.9	
+50				6.1	226.2	
+38				3.1	229.2	
T.P.	11.42	241.99	1.76		230.57	
1				7.5	234.5	
+50				5.9	236.1	
=0 +45				8.0	234.0	East line 6th St.
2+18				7.5	234.5	Center " "
1+91				7.1	234.9	West " " "
+81						
T.P.	11.71	253.63	0.07		241.92	

0 221.77
0.82
220.95
11.38
0 232.33
1.76
230.57
11.42
0 241.99
0.07
241.92
11.71
0 253.63

Sta.	B.S.	H.I.	F.S.	Rod	Elev.	
		(253.63)				
1+41				2.9	250.7	
T.P.	11.45	264.25	0.83		252.80	
T.P.	11.01	274.66	0.60		263.65	
+91				5.6	269.1	
T.P.	8.62	282.12	1.16		273.50	
+50				6.3	275.8	
+41				5.2	276.9	
0				3.0	279.1	East line 5th St.

~~0~~ 253.63
0.83
252.80
11.45
~~0~~ 264.25
0.60
263.65
11.01
~~0~~ 274.66
1.16
273.50
8.62
~~0~~ 282.12

Levels along the center line of Vermont St. (University Heights) from University ave, to the North line Park

Kinney, Level
Williams, Rod
Falkenstein, Chain

Sta.	B.S.	H.I.	F.S.	Rid.	Elev	
B.M.	3.49	293.44			289.95	Plug, S.W. University & Vermont St.
-75				2.9	290.5	
-30				4.6	288.8	
-25				4.1	289.3	
0				3.7	289.7	S. line University
+13				3.4	290.0	
+63				3.7	289.7	
1+13				3.8	289.6	
+63				4.3	289.1	
2+13				4.9	288.5	
+63				5.1	288.3	N. line Cosey
3+03				4.6	288.8	center "
+83				4.8	288.6	S " "
0 +50				5.0	288.4	
1				5.2	288.2	
+50				5.3	288.1	
2				4.4	289.0	
+50				4.2	289.2	
3				4.6	288.8	S. line Robinson
B.M.	1.54	290.77	4.21		289.23	Plug, N.E. Robinson + Vermont.
+40				2.7	288.1	center Robinson

289.95
3.49
293.44
4.21
289.23
1.54
290.77

Stn.	B.S.	H.I.	F.S.	Rod	Elev.	
		(290.77)				
=0 +80				3.6	287.2	S. line Robinson
+50				3.8	287.0	
1				5.2	285.6	
+50				5.8	285.0	
+75				5.3	285.5	
2				5.7	285.1	
+50				5.8	285.0	
3				6.0	284.6	N. line Thornton
+40				6.1	284.7	center "
+60				7.7	283.1	
=0 +80				7.3	283.5	S line "
+30				8.3	282.5	
+50				7.5	283.3	
1				6.7	284.1	
+50				6.8	284.0	
2				7.3	283.5	
+50				9.2	281.6	
T.P.	0.46	280.85	10.38		280.39	
+85				1.8	279.0	
3				7.8	273.0	N. line Cypress
+40				14.0	266.8	center "

~~0~~ 290.77
10.38
280.39
0.46
~~0~~ 280.85

Sta.	B.S.	H.I.	F.S.	Rod	Elev.
		(280.85)			
+65				12.2	268.65
T.P.	1.96	271.44	11.37		269.48
=0 +80				4.4	267.0
+25				8.3	263.1
+40				3.8	267.6
+50				4.5	266.9
1				10.2	261.2
+35				11.4	260.0
T.P.	0.35	260.16	11.63		259.81
+50				4.3	255.9
+70				7.0	253.2
T.P.	0.41	248.90	11.67		248.49
2				4.7	244.2
T.P.	0.81	238.07	11.64		237.26
+50				9.3	228.8
T.P.	0.53	226.81	11.79		226.28
3				8.6	218.2
+40				15.4	211.4
=0 +80				11.2	215.6
+10				9.4	217.4
T.P.	11.16	237.05	0.92		225.89

S. line Cypress

N. line Brooker
center "
S. " "

~~0~~280.85
11.37
269.48
1.96
~~0~~271.44
11.63
259.81
0.35
~~0~~260.16
11.67
248.49
0.41
~~0~~248.90
11.64
237.26
0.81
~~0~~238.07
11.79
226.28
0.53
~~0~~226.81
0.92
225.89
11.16
~~0~~237.05

Sta	B.S.	H.I.	F.S.	Rod	Elev.
		(237.05)			
+50				2.3	234.7
T.P.	11.40	247.76	0.69		236.36
+75				1.5	246.3
T.P.	11.89	258.99	0.66		247.10
+90				6.4	252.6
T.P.	11.39	269.57	0.81		258.18
1				11.2	258.4
+15				5.3	264.3
T.P.	10.56	279.80	0.33		269.24
+40				3.7	276.1
+50				2.6	277.2
T.P.	5.90	285.60	0.10		279.70
2				5.6	280.0
+50				4.7	280.9
3				4.0	281.6
+40				2.7	282.9
=+80				3.9	281.7
B.M				3.63	281.97
+50				4.4	281.2
1				5.1	280.5
+50				6.4	279.2

285.60
3.63
281.97 B.M.

237.05
0.69
236.36
11.40
247.76
0.66
247.10
11.89
258.99
0.81
258.18
11.39
269.57
0.33
269.24
10.56
279.80
0.10
279.70
5.90
285.60

N line Myrtle
center "
S. line "
Plug S.E. Myrtle and Vernon

Sta.	B.S.	H.I.	F.S.	Rod	Elev	
		(285.60)				
2				6.7	278.9	
+50				7.7	277.9	
+80				9.0	276.6	
B.M.	1.25	281.26	5.59		280.01	Plug, N.E. Upar + Vermont
3				7.6	273.7	
+50				8.6	272.7	
+90				10.8	270.5	N line Park

285.60
5.59
280.01
1.25
281.26

8/[illegible] Levels along the center of Maryland St. (University Heights) from University Ave. to the north line City Park

[illegible], Level
Williams, Rod
Talkinstein, Chain

Sta.	B.S.	H.I.	F.S.	Rod	Elev		
B.M.	6.20	286.21			280.01	Plug N.E. Upas and Vermont	280.01
B.M.	3.83	288.23	1.81		284.40	" N.E. " and Maryland	6.20
+90				3.7	284.5	North line Park	286.21
+50				4.8	283.4		1.81
3				4.5	283.7	N line Upas St.	284.40
+50				4.2	284.0		3.83
2				4.8	273.4		288.23
+50				4.3	283.9		11.47
1				4.1	284.1		276.76
+50				5.3	282.9		1.57
0				8.7	279.5	S. line Myrtle	278.33
+80							11.90
+70				10.3	277.9		266.43
+40				10.5	277.7	Center "	0.65
3				7.8	280.4	N " "	267.08
+75				6.5	281.7		
+50				6.6	281.6		
+25				8.9	279.3		
T.P.	1.57	278.33	11.47		276.76		
+15				2.1	276.2		
2				7.4	270.9		
T.P.	0.65	267.08	11.90		266.43		

~~0~~ 287.77
3.40
284.37 B.M.

Sta.	B.S.	H.I.	F.S.	Rod	Elev	
		(267.08)				
T.P.	0.17	255.25	12.00		255.08	
+50				8.0	247.2	
+40				10.2	245.0	
T.P.	0.23	243.48	12.00		243.25	
+25				4.6	238.9	
+15				6.2	237.3	
+05				10.1	233.4	
				9.1	234.4	
T.P.	11.45	254.93	0.00		243.48	
+50				4.5	250.4	
T.P.	11.80	266.73	0.00		254.93	
T.P.	11.95	278.44	0.24		266.49	
0+80				6.1	272.3	S. line Brooks
T.P.	9.65	287.77	0.32		278.12	
+65				6.7	281.1	
+40				5.0	282.8	Center "
B.M.				3.40	284.37	Plug N.E. Brooks and Maryland
3				3.3	284.5	N line Brooks
+50				5.2	282.6	
+25				7.9	279.9	
T.P.	0.31	276.11	11.97		275.80	

~~0~~ 267.08
12.00
255.08
0.17
~~0~~ 255.25
12.00
243.25
0.23
~~0~~ 243.48
0.00
243.48
11.45
~~0~~ 254.93
0.00
254.93
11.80
~~0~~ 266.73
0.24
266.49
11.95
~~0~~ 278.44
0.32
278.12
9.65
~~0~~ 287.77
11.97
275.80
0.31
~~0~~ 276.11

253.69
0.70
252.39 B.M.

Sta.	B.S.	H.I.	F.S.	Rod	Elev	
		(276.11)				
2				2.2	273.9	
T.P.	0.94	265.16	11.89		264.22	
+55				4.1	261.1	
+50				6.3	258.9	
T.P.	0.04	253.39	11.81		253.35	
1				9.7	243.7	
T.P.	0.60	242.18	11.81		241.58	
+25				5.4	236.8	
+50				9.7	232.5	
=0 +80				13.5	228.7	S. line Cypress
+70				14.2	228.0	
+40				5.6	236.5	Center "
T.P.	11.89	253.69	0.38		241.80	
3				2.6	251.1	N. line "
B.M.				0.70	252.39	Plug, N.E. Cypress and Maple
T.P.	11.38	265.00	0.07		253.62	
T.P.	11.85	276.41	0.44		264.56	
+50				4.4	272.0	
T.P.	11.49	287.33	0.57		275.84	
+30				7.8	280.0	
2				1.0	286.3	

~~0~~276.11
11.89
264.22
0.94
~~0~~265.16
11.81
253.35
0.04
~~0~~253.39
11.81
241.58
0.60
~~0~~242.18
0.38
241.80
11.89
~~0~~253.69
0.07
253.62
11.38
~~0~~265.00
0.44
264.56
11.85
~~0~~276.41
0.57
275.84
11.49
~~0~~287.33

Sta.	B.S.	H.I.	F.S.	Rod	Elev.	
T.P.	9.32	296.22	0.43		286.90	
+50				7.2	289.0	
1				6.5	269.7	
+50				5.8	290.4	
=0+80				4.6	291.6	S. line Thornton
+40				4.3	291.9	Center "
3				4.7	291.5	N. " "
+50				4.7	291.5	
2				4.8	291.4	
+50				3.5	292.7	
1				2.8	293.4	
+50				1.8	294.4	
=0+80				1.1	295.1	S. line Robinson
B.M.	6.54	300.60	2.16		294.06	Pkg. S.W. Robinson + Maryland
+40				5.1	295.5	Center Robinson
3				4.9	295.7	N. line "
+50				5.1	259.5	
2				4.2	296.4	
+75				4.9	295.7	
+50				4.4	296.2	
1				4.7	295.9	

287.33
0.43
286.90
9.32
296.22
2.16
294.06
6.54
300.60

Sta.	B.S.	H.I.	F.S.	Rod	Elev.	
		(300.60)				
+50				4.7	295.9	
+25				5.0	295.6	
0+80				4.4	296.2	S. line Essex
+40				5.2	295.4	Center "
+25				4.3	296.3	
3				4.6	296.0	N. line "
+38				5.5	295.1	
2+13				4.4	296.2	
+63				4.2	296.4	
1+13				3.9	296.7	
+63				2.8	297.8	
+13				3.3	297.3	
0				3.3	297.3	S. line University
−20				4.0	296.6	
−75				2.6	298.0	Center "
B.M.				3.54	297.06	Plug S.W. University and Maryland

300.60
− 3.54
B.M. 297.06 chk
(297.03)

8/7/61
[illegible]
Williams, Rod
Falkenstein, chain

✓ Levels along the center line of Albert St. from Robinson to North line City Park

299.08
5.68
293.40 B.M.

Sta.	B.S.	H.I.	F.S.	Rod	Elev.		
B.M.	5.02	299.08			294.06	Plug S.W. Robinson and Maryland	294.06
B.M.				5.68	293.40	" S.E. " and Albert	5.02
							0299.08 ✓
-40				8.7	290.4	Center Robinson	11.62
							287.46 ✓
T.P.	0.11	287.57	11.62		287.46		0.11
0				2.8	284.8	S. line "	0287.57 ✓
							11.67
+50				10.8	286.8		275.90 ✓
							0.69
T.P.	0.69	276.59	11.67		275.90		0276.59 ✓
+80				4.0	272.6		11.17
							265.42 ✓
1				9.3	267.3		0.46
							0265.88 ✓
T.P.	0.46	265.88	11.17		265.42		0.34
							265.54 ✓
+50				10.9	255.0		11.44
							0276.98 ✓
+80				10.5	255.4		0.57
							276.41 ✓
2				12.1	253.8		3.12
							0279.53 ✓
+50				7.2	258.7		
+85				3.6	262.3		
3				0.0	265.9	N. line Thornton	
T.P.	11.44	276.98	0.34		265.54		
+40				3.7	273.3	Center "	
+80				1.1	275.9	S " "	
0							
T.P.	3.12	279.53	0.57		276.41		
+40				0.6	278.9		
	20.84		35.32				

257.78
9.01
248.77 B.M.

Sta.	B.S.	H.I.	F.S.	Rod	Elev.	
		(279.53)				
+50				1.7	277.8	
T.P.	0.56	268.69	11.40		268.13	
1				10.9	257.8	
T.P.	0.88	257.90	11.67		257.02	
T.P.	1.15	247.05	12.00		245.90	
+50				4.9	242.1	
2				11.2	235.8	
+05				8.7	238.3	
+50				2.4	244.6	
T.P.	11.10	257.78	0.37		246.68	
+85				3.9	253.9	
B.M.				9.01	248.77	Plug N. W. Albert + Cypress
T.P.	11.55	268.73	0.60		257.18	
3				8.8	259.9	N. line Cypress
+18				4.9	263.8	
T.P.	11.57	279.97	0.33		268.40	
+40				6.9	273.1	Center "
+60				0.7	279.3	
T.P.	11.66	291.49	0.14		279.83	
2+80				9.4	282.1	S. line "
+10				6.9	284.6	
	48.47		36.51			

279.53
11.40
268.13
0.56
268.69
11.67
257.02
0.88
257.90
12.00
245.90
1.15
247.05
0.37
246.68
11.10
257.78
0.60
257.18
11.55
268.73
0.33
268.40
11.57
279.97
0.14
279.83
11.66
291.49

291.49
2.08
289.41 B.M.

Sta.	B. S.	H. I.	F. S.	Rod	Elev.	
		(291.49)				
+50				5.5	286.0	
1				4.4	287.1	
+50				3.3	288.2	
2				1.7	289.8	
+50				0.9	290.6	
3				1.4	290.1	N. line Brooker
B.M.	1.30	290.71	2.08	2.08	289.41	Plug N.W. Brooker + Albert
+40				1.5	289.2	Center Brooker
+80				2.4	288.3	S. line "
=0						
+50				4.8	285.9	
+62				6.7	284.0	
T.P.	0.40	279.43	11.68		279.03	
1				11.2	268.2	
T.P.	0.01	267.98	11.46		267.97	
T.P.	0.74	257.01	11.71		256.27	
+50				4.3	252.7	
+70				5.3	251.7	
2				10.0	247.0	
+25				4.6	252.4	
T.P.	11.88	268.18	0.71		256.30	
+50				9.2	259.0	
	14.33		37.64			

~~0~~ 291.49
2.08
289.41 ✓
1.30
~~0~~ 290.71 ✓
11.68
279.03 ✓
0.40
~~0~~ 279.43 ✓
11.46
267.97 ✓
0.01
~~0~~ 267.98 ✓
11.71
256.27 ✓
0.74
~~0~~ 257.01 ✓
0.71
256.30 ✓
11.88
~~0~~ 268.18 ✓

Sta.	B. S.	H. I.	F. S.	Rod	Elev.
		(268.18)			
+75				0.6	267.6
T. P.	11.43	279.04	0.57		267.61
3				2.0	277.0
T. P.	10.39	288.97	0.46		278.58
+25				5.8	283.2
+40				3.7	285.3
+80				1.6	287.4
=0 +50				0.7	288.3
T. P.	7.61	296.07	0.51		288.46
1				7.3	288.8
+50				6.5	289.6
2				6.7	289.4
+50				7.8	288.3
3				7.7	288.4
+50				8.5	287.6
+90				8.4	287.7
B.M.			6.68		289.39
	29.43		8.22		

N. line Myrtle

Center "

N. line "

N. line Upas

N. line City Park

Plug N.E. Upas & Albert

268.18
0.57
267.61
11.43
279.04
0.46
278.58
10.39
288.97
0.51
288.46
7.61
296.07
6.68
289.39

Levels, along the curb line of Herbert St. from Robinson to the North line of City Park

Level
Madden, Rod
Falkenstein, Chain

Sta.	B.S.	H.I.	F.S.	Rod	Elev.	
B.M.	6.68	296.07			289.39	Plug, N.E. corn of Albert
+90				2.5	293.6	N. line City Park
+50				2.8	293.3	
3				3.5	292.6	N. line Myrtle
+50				5.3	290.8	
2				6.5	289.6	
+50				7.4	288.7	
1				7.0	289.1	
+50				7.6	288.5	
+20				9.9	286.2	
T.P.	0.18	284.58	11.67		284.40	
=0+80				3.4	281.2	S. line Myrtle
T.P.	0.84	273.75	11.67		272.91	
+40				4.5	269.2	center "
+30				8.4	265.3	
+20				10.2	263.5	
+10				12.8	260.9	
3				9.4	264.3	N. line Myrtle
+75				4.1	269.6	
T.P.	11.80	284.97	0.58		273.17	
+50				6.1	278.9	
	19.50		23.92			

289.39
6.68
296.07
11.67
284.40
0.18
284.58
11.67
272.91
0.84
273.75
0.58
273.17
11.80
284.97

294.69
4.25
290.44 B.M.

Sta.	B. S.	H. I.	F. S.	Rod.	Elev.	
		(284.97)				
T. P. 1	9.82	294.69	0.10		284.87	
+25				8.1	286.6	
2				6.9	287.8	
+50				7.0	287.7	
1				6.5	288.2	
+50				5.5	289.2	
=0 +80				4.5	290.2	S. line Brooker
+40				4.2	290.5	center "
3				3.9	290.8	" " "
B.M.				4.25	290.44	Plug N.E. Herbert & Brooker
+70				2.8	291.9	
+50				3.7	291.0	
2				4.4	290.3	
+70				3.6	291.1	
+50				5.1	289.6	
+25				4.0	290.7	
1				3.7	291.0	
+50				3.9	290.8	
=0 +80				3.0	291.7	S. line Cypress
B.M.	7.94	297.54	5.09		289.60	Plug S.W. Herbert & Cypress
+60				5.0	292.5	
	17.76		5.19			

284.97
0.10
284.87 ✓
9.82
294.69 ✓
5.09
289.60 B.M.
7.94
297.54 ✓

Sta.	B. S.	H. I.	F. S.	Rod.	Elev.		
		(297.54) *					
+40				6.0	291.5	Cedar Cypress	297.54
3				5.1	292.4	N. line "	11.67
+50				4.1	293.4		285.87 ✓
2				4.4	293.1		1.15
+50				4.5	293.0		287.02 ✓
+10				6.9	290.6		12.00
1				9.3	288.2		275.02 ✓
T. P.	1.15	287.02	11.67		285.87		0.63
+70				5.9	281.1		275.65 ✓
+50				12.2	274.8		11.84
T. P.	0.63	275.65	12.00		275.02		263.81 ✓
T. P.	1.12	264.93	11.84		263.81		1.12
=0+80				8.8	256.1	S. line Thornton	264.93 ✓
T. P.	3.87	258.14	10.66		254.27		10.66
+60				8.7	249.4	Cedar "	254.27 ✓
+40				10.1	248.0		3.87
+10				11.0	247.1		258.14 ✓
+09				8.5	249.6		0.05
3				6.7	251.4	N. line "	258.09 ✓
T. P.	11.22	269.31	0.05		258.09		11.22
+65				8.7	260.6		269.31 ✓
	17.99		46.22				

294.42
289.60
4.82

294.42
290.44
3.98

Sta.	B. S.	H. I.	F. S.	Rod	Elev	
		(269.31)				
+50				5.2	264.1	
+30				3.6	265.7	
2				4.9	264.4	
+75				6.9	262.4	
+50				4.6	264.7	
T. P.	11.05	279.86	0.50		268.81	
+20				8.4	271.5	
1				1.5	278.4	
T. P.	10.47	289.82	0.51		279.35	
+90				9.3	280.5	
T. P.	8.88	298.25	0.45		289.37	
+70				7.2	291.0	
+50				5.5	292.7	
0				3.3	294.9	S. line Robinson
−40				3.3	294.9	Center "
B. M.			4.83		293.42	Plug, S. E. Robinson and Albert
					Site	
	20.40		1.46			

~~0~~ 269.31
0.50
268.81
11.05
x ~~0~~ 279.86
0.51
279.35
10.47
~~0~~ 289.82
0.45
289.37
8.88
~~0~~ 298.25
4.83
293.42

8/8/31
Bunting Level
Williams, Rod
Falkenstein, Chain

Levels along the center line of Alley bet Park, Boulevard and Herbert St., from Thornton to N. line City Park

299.32
3.27
B.M. 296.05

Sta.	B.S.	H.I.	F.S.	Rod	Elev.		
B.M.	9.72	299.32			289.60	Plug S.W. Herbert and Cypress	289.60
B.M		–		3.27	296.05	Plug S.W. Thornton and Alley	9.72
0				3.5	295.8	S. line Thornton	299.32
+30				3.6	285.7		4.79
+50				3.1	296.2		294.53
1				3.9	295.4		2.66
+50				5.0	294.3		297.19
2				6.3	293.0		
+50				9.8	289.5		
+75				8.5	290.8		
3				5.6	283.7	N. line Cypress	
+40				4.0	295.3	Center "	
+80				3.1	296.2	S line "	
0							
+50				3.8	295.5		
1				4.1	295.2		
+50				4.8	294.5		
T.P.	2.66	297.19	4.79		294.53		
2				2.7	294.5		
+50				3.8	293.4		
3				3.1	294.1	N. line Brookes	
+25				2.3	294.9		

297.19
9.21
287.98 B.M.

Sta.	B. S.	H. I.	F. S.	Rod	Elev.	
		(297.19)				
+40				3.0	294.2	Center Brooker
=+80				3.7	293.5	S line "
0 +30				3.1	294.1	
+50				4.0	293.2	
1				4.6	292.6	
+50				5.7	291.5	
+65				5.0	292.2	
2				6.0	291.2	
+50				9.4	287.8	
3				8.2	289.0	N line Myrtle
B.M.				9.21	287.98	Plug N.W. Myrtle and alley
+40				6.4	290.8	Center Myrtle
+60				4.9	292.3	
=+80				4.9	292.3	S line "
0 +50				4.4	292.8	
T. P.	8.00	301.76	3.43		293.76	
1				8.3	293.5	
+50				8.2	293.6	
2				8.2	293.6	
+50				9.0	292.8	
3				9.3	292.5	N. line alley

297.19
3.43
293.76
8.00
301.76

Sts.	B.S.	H.I.	F.S.	Rod.	Elev.	
		301.76				
+25				8.4	293.4	
+50				9.3	292.5	
+90				9.3	292.5	N. line City Park
B.M.			9.55		292.21	Plug N.W. corner and alley
8/10/01	Levels in alley in Block 241					(University Heights)
B.M.	5.22	301.27			296.05	Plug S.W. Thornton and alley
0				5.4	295.9	S. line Thornton
+50				2.7	298.6	center "
1				3.4	297.9	N. line "
+30				4.1	297.2	
+50				5.7	295.6	
2				11.9	289.4	
+50				8.6	292.7	
+78				6.8	294.5	Intersection center alley
3				5.9	295.4	
+50				4.1	297.2	
4				10.0	291.3	
T.P.	0.31	290.20	11.38		289.89	
+10				1.3	288.9	
T.P.	2.66	281.04	11.82		278.38	
+50				5.2	275.8	
+63				9.2	271.8	S. line Robinson
+73				8.9	272.1	
5+13				1.3	279.7	= Sta. 5+50, center Robinson
B.M.			8.23		272.81	Plug S.W. Robinson and alley

	301.76
	9.55
B.M.	292.21 ✓

	296.05
	5.22
	301.27
	11.38
	289.89
	0.31
	290.20
	11.82
	278.38
	2.66
	281.04
	8.23
	272.81

281.04
5.51 on T.P.
275.53 chk

8/8/01
Burgess Level
Mitchell Rd
Falkenstein, Chair

137

Levels, along the Center line of Alley bet. Park Boulevard and Indiana St. from the Center of Park Boulevard to N. line Park

138

Sta.	B. S.	H. I.	F. S.	Rod	Elev.		
B.M	9.55	301.76			292.21	Plug N.W. Upar and Alley	292.21
+90				2.7	299.1	N. line City Park	9.55
+50				2.0	299.8		301.76
3				1.7	300.1	N. line Upar St.	1.35
B.M.				1.13	300.63	Plug N.E. Upar and Alley	300.41
+50				2.1	299.7		8.32
2				2.3	299.5		308.73
+50				1.8	300.0		
1				0.2	301.6		
T.P.	8.32	308.73	1.35		300.41		
+50				6.8	301.9		
8				6.3	302.4	S. line Myrtle	
7 +20				6.2	302.5	Center "	
+80				6.3	302.4	N. line "	
+30				6.3	302.4		
6 +30				5.1	303.6		
+90				4.9	303.8		
5 +80				6.3	302.4		
30				4.9	303.8		
5 +05				5.9	302.8		
+80				5.1	303.6		

~~0~~ 309.85
4.40
B.M. 305.45

Sta.	B.S.	H.I.	F.S.	Rod.	Elev.	
		(308.73)				
4+30				5.2	303.5	
+80				4.5	304.2	
+60				3.3	305.4	
+40				4.1	304.6	
3				3.7	305.0	
+50				4.7	304.0	
2				3.2	305.5	
+50				3.2	305.5	
+30				2.5	306.2	
1				2.9	305.8	
+50				2.8	305.9	
T.P.	3.88	309.85	2.71		306.02	
B.M.				4.40	305.45	Pkg. S.W. Cypress in Alley
=0 +50				4.7	305.1	S. line Cypress
6+10				3.9	305.9	Center "
+90				5.3	304.5	
+70				4.5	305.3	N. line Cypress
5+20				5.0	304.8	
+70				5.1	304.7	
4+20				4.7	305.1	
3+70				5.8	304.0	

~~0~~ 308.73
2.71
306.02
3.83
~~0~~ 309.85

(296.05)

Sta.	B. S.	H. I.	F. S.	Rod.	Elev.	
		(309.85)				
+35				5.8		
3+20				6.5	303.3	
+70				7.3	302.5	
+45				6.7	303.1	
2+20				7.7	302.1	
+70				9.6	300.2	
1+20				10.8	299.0	
+70				10.6	299.2	
T.P.	5.41	304.73	10.53		299.32	
+20				5.5	299.2	
0				5.9	298.8	About the center Park Boulevard
B.M.			8.65		296.08	Plug, S.W. Thomson and Alley
					Chk	

~~0~~ 309.85
10.53
299.32
5.41
~~0~~ 304.73
8.65
296.08

8/15/61 Levels along the center of Robinson Ave., from 5th to 10th St. (Crittenden's)

Burns Level
Wi[illegible] Rod
Falkenstein Chain

Sta.	B.S.	H.I.	F.S.	Rod	Elev		
B.M.	3.40	285.63			282.23	Plug S.E. 10th and Robinson	282.23
							3.40
+94.3				1.7	283.9	Center 10th St.	0285.63
+79				0.4	285.2		11.85
							273.78
+54				2.3	283.3	West line 10th St.	0.52
							0274.30
+25				1.6	284.0		11.99
							262.31
2				2.9	282.7		0.63
							0262.94
+65				3.0	282.6		11.63
							251.31
+50				4.0	281.6		0.29
							0251.60
1				5.2	280.4		
+50				5.5	280.1		
+30				5.7	279.9		
+25				7.9	277.7		
T.P.	0.52	274.30	11.85		273.78		
0 +66				7.2	267.1	East line 9th St.	
T.P.	0.63	262.94	11.99		262.31		
+33				9.8	253.1	Center " "	
T.P.	0.29	251.60	11.63		251.31	West " " "	
2				10.5	241.1		
+94				12.0	239.6		
+92				13.7	237.9		
+90				12.5	239.1		

Sta.	B.S.	H.I.	F.S.	Rod	Elev.	
		(251.60)				
+50				5.3	246.3	
T.P.	11.92	263.28	0.24		251.36	
T.P.	11.82	275.10	0.00		263.28	
1				11.0	264.1	
+85				7.2	267.9	
T.P.	9.77	283.51	1.36		273.74	
+70				7.4	276.1	
+50				7.4	276.1	
+34				6.4 3.7	277.1 279.8	Vert. Bank
0 +66				3.4	280.1	East line 8th St
+41				3.6	279.9	
+33				5.7	277.8	Center " "
3				5.7	277.8	West " " "
+50				5.8	277.7	
2				5.4	278.1	
+70				5.4	278.1	
+50				3.8	279.7	
1				2.9	280.6	
+50				2.8	280.7	
0 +66				2.9	280.6	
+33				3.0	280.5	

251.60
0.24
251.36
11.92
263.28
0.00
263.28
11.82
275.10
1.36
273.74
9.77
283.51

Stn.	B.S.	H.I.	F.S.	Rod	Elev.	
T.P.	7.89	288.44	2.96		280.55	
3				8.0	280.4	
+70				7.7 11.3	280.7 277.1	Perp. Bank
+50				11.3	277.1	
+25				10.3	278.1	
2				10.4	278.0	
+83				9.1	279.3	
+80				6.6	281.8	
+62				6.4	282.0	
+61				8.9	279.5	
+50				9.2	279.2	
+37				8.4	280.0	
+35				6.0	282.4	
1				5.4	283.0	
+50				4.8	283.6	
0+53				3.8	284.6	East Line 6th St.
+25.5				2.8	285.6	Center " "
1+98				1.7	286.7	West " " "
B.M.	6.50	293.71	1.23		287.21	(287.17) Bing N.W. 6th and Robinson
+73				5.6	288.1	
+48				5.5	288.2	

~~0~~ 283.51
2.96
280.55
7.89
~~0~~ 288.44
1.23
287.21
6.50
~~0~~ 293.71

Sta.	B. S.	H. I.	F. S.	Rod	Elev.	
		(293.71)				
+98				4.6	289.1	
+48				3.9	289.8	
+01				4.0	289.7	
0				5.5	288.2	Back line 5th St
-40				6.0	287.7	Center " "

Sta.	B. S.	H. I.	F. S.	Rod	Elev

Sta.	B. S.	H. I.	F. S.	Rod	Elev.

Sta.	B. S.	H. I.	F. S.	Rod	Elev.

9/30/01 Check Levels from Park Boulevard and Campus ave. to University and Vermont ave.

	B.S.	H.I.	F.S	Elev	
B.M.	1.78	346.41		344.63 ✓	
T.P.	0.43	335.22	11.62	334.79	
T.P.	0.49	323.72	11.99	323.23	
B.M	0.74	314.43	10.03	313.69	
B.M	2.33	306.96	9.80	304.63	
B.M			4.48	302.48	
B.M.	1.12	298.15	9.93	297.03	0.6
B.M.			8.20	289.95 Chk	

Rumsey { Williams Rod 306.96
4.48
302.48

Plug, S.E. Campus of Park Boulevard
Plug, S.E. Park Boul + Lincoln
" S.W. " " + Blaine
Plug S.E Univ'ty + Fillmore
Plug S.W. " + Maryland
" S.W. " + Vermont

344.63
1.78
346.41
11.62
334.79
0.43
335.22
11.99
323.23
0.49
323.72
10.03
313.69
0.74
314.43
9.80
304.63
2.33
306.96
9.93
297.03
1.12
298.15
8.20
289.95

B.M. S.W. Cor 5th & Univ
Spk at blk Cor. (289.88)
University ave (302.57) Int
" Bulb.
Campus & Univ
Madison & Carolina M.E. Ally (285.0)

167

Return to City Engineers Office
City Hall, San Diego, Cal.

Return to City Engineers Office
City Hall, San Diego, Cal.

TRAVERSE TABLE FOR TRANSIT BOOK.

From 1° to 90° for a distance of 100.

Degrees.	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		Degrees.
	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
0			100.00	0.44	100.00	0.87	99.99	1.31	89
1	99.98	1.75	99.98	2.18	99.97	2.62	99.95	3.05	88
2	99.94	3.49	99.92	3.93	99.91	4.36	99.88	4.80	87
3	99.86	5.23	99.84	5.67	99.81	6.10	99.79	6.54	86
4	99.76	6.98	99.73	7.41	99.69	7.85	99.66	8.28	85
5	99.62	8.72	99.58	9.15	99.54	9.58	99.50	10.02	84
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	83
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	82
8	99.03	13.92	98.97	14.35	98.90	14.78	98.84	15.21	81
9	98.77	15.64	98.70	16.07	98.63	16.50	98.56	16.93	80
10	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	79
11	98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.36	78
12	97.81	20.79	97.72	21.22	97.63	21.64	97.53	22.07	77
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	76
14	97.03	24.19	96.92	24.62	96.81	25.04	96.70	25.46	75
15	96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	74
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.82	73
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	72
18	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	71
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	70
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	69
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	68
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	67
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	66
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	65
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	64
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	63
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	62
28	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	61
29	87.46	48.48	87.25	48.86	87.04	49.24	86.82	49.62	60
30	86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	59
31	85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	58
32	84.80	52.99	84.57	53.36	84.34	53.73	84.10	54.10	57
33	83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	56
34	82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	55
35	81.92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	54
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	53
37	79.86	60.18	79.60	60 53	79.34	60.88	79.07	61.22	52
38	78.80	61.57	78.53	61.91	78.26	62.25	77.99	62.59	51
39	77.71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	50
40	76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	49
41	75.47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	48
42	74.31	66.91	74.02	67.24	73.73	67.56	73.43	67.88	47
43	73.14	68.20	72.84	68.52	72.54	68.84	72.24	69.15	46
44	71.93	69.47	71.63	69.78	71.33	70.09	71.02	70.40	45
45	70.71	70.71							
Degrees.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Degrees.
	DEGREES.		¾ DEGREE.		½ DEGREE.		¼ DEGREE.		

Published by H. S. Crocker Company, Stationers, Drawing Materials, Mathematical Instruments, etc., San Francisco.