3

City Park Contours

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

157

400

LEVEL

F.B. 157

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	2 1/3	21	49	41	95 2/3
2	4 2/3	22	51 1/3	42	98
3	7	23	53 2/3	43	100 1/3
4	9 1/3	24	56	44	102 2/3
5	11 2/3	25	58 1/3	45	105
6	14	26	60 2/3	46	107 1/3
7	16 1/3	27	63	47	109 2/3
8	18 2/3	28	65 1/3	48	112
9	21	29	67 2/3	49	114 1/3
10	23 1/3	30	70	50	116 2/3
11	25 2/3	31	72 1/3	51	119
12	28	32	74 2/3	52	121 1/3
13	30 1/3	33	77	53	123 2/3
14	32 2/3	34	79 1/3	54	126
15	35	35	81 2/3	55	128 1/3
16	37 1/3	36	84	56	130 1/3
17	39 2/3	37	86 1/3	57	133
18	42	38	88 2/3	58	135 1/3
19	44 1/3	39	91	59	137 2/3
20	46 2/3	40	93 1/3	60	140

TABLE FOR RUNNING ON SLOPES.

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.

Angle	Cor. in Links	Angle	Cor. in Links	Angle	Cor. in Links	Angle	Cor. in Links
0		0		0		0	
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

Contour Survey City Park

City Park Contours

Feb 12/03

2/12/03 - Alvergon
McLaren
Anginsola
Luke

△ Pt. on 8th St range line 400 ft northerly from initial pt. on Cedar St.

→ A.O.

160 ft. Contour

1°50'	98°05'R	2.20	220'	✓
1°45'	91°03'R	2.38	238'	✓
1°35'	86°48'R	2.56	256	✓
1°35'	86°20'R	2.88	288	✓

Vertical	Horiz.	Rod.	
1°30′	85°25′R	3.27	327 ✓
1°15′	83°20′R	3.47	347 ✓
1°15′	85°15′R	3.73	373 ✓
1°05′	86°55′R	4.00	400 ✓
1°00′	88°25′R	4.23	423 ✓

165 ft. Contour.

0°15′	88°30′R	4.55	455 ✓
0°10′	83°30′R	4.26	426 ✓
0°15′	82°38′R	3.90	390 ✓
0°20′	81°30′R	3.54	354 ✓
0°20′	79°55′R	3.20	320 ✓
0°20′	76°00′R	3.07	307 ✓
0°20′	69°38′R	2.83	283 ✓
0°15′	68°40′R	2.57	257 ✓
0°15′	70°45′R	2.40	240 ✓
0°15′	71°10′R	2.13	213 ✓
0°15′	70°10′R	1.77	177 ✓
0°20′	69°15′R	1.73	173 ✓
0°30′	69°45′R	1.53	153 ✓
0°40′	65°50′R	1.17	117 ✓
0°40′	74°05′R	1.26	126
0°30′	84°00′R	1.15	115
0°25′	92°45′R	0.63	63
0°20′	82°50′R	0.20	20

The preceding 160 and 165 ft. contours are on east slope of ridge. Do not connect with those on west slope.

△ Pt. on 6½ strange line at pt. 300 ft. N. of So. line of Park.

→ 0 on So. line of Park.

145 ft. Contour.

0°45′	41°15′R	1.66	166 ✓
0°50′	0°10′L	1.43	143 ✓

2°45′	8°00′L	1.65	165 ✓
2°30′	16°00′L	1.80	180 ✓
2°30′	20°05′L	2.03	203 ✓
2°30′	26°50′L	2.05	205 ✓
2°20′	30°00′L	2.33	233 ✓
2°30′	21°15′L	2.52	252 ✓
2°00′	28°25′L	2.90	290 ✓
1°30′	31°00′L	3.25	325 ✓

150 ft. contour

0°50′	38°45′L	3.55	355 ✓
0°40′	41°20′L	3.60	360 ✓
0°40′	43°15′L	3.40	340 ✓
0°45′	47°08′L	3.25	325 ✓
0°30′	52°22′L	3.30	330 ✓
0°30′	52°00′L	3.00	300 ✓
0°40′	52°10′L	2.77	277 ✓
0°50′	53°05′L	2.57	257 ✓
0°40′	51°00′L	2.54	254 ✓
0°30′	43°22′L	2.57	257 ✓
0°30′	44°45′L	2.35	235 ✓
0°50′	48°55′L	2.04	204 ✓
0°30′	53°30′L	1.82	182 ✓
0°35′	51°55′L	1.63	163 ✓
0°50′	54°50′L	1.37	137 ✓
1°05′	58°00′L	1.18	118 ✓
1°20′	62°10′L	1.08	108 ✓
1°05′	46°00′L	1.15	115 ✓
1°00′	39°25′L	1.20	120 ✓
1°15′	41°00′L	1.00	100 ✓
1°35′	46°25′L	0.75	75 ✓
1°35′	39°30′L	0.68	68 ✓
1°30′	38°35′L	0.53	53 ✓
1°30′	35°00′L	0.34	34 ✓
1°35′	28°00′L	0.22	22 ✓
1°30′	5° 25′R	0.38	38 ✓

1°30′	39°30′R	0.32	32	✓
1°15′	135°15′R	0.57	57	✓
1°20′	158°40′R	0.82	82	✓
1°20′	160°00′R	1.00	100	✓

155 ft. Contour.

0°30′	173°45′R	2.73	273	✓
0°30′	179°10′R	2.60	260	✓
0°30′	180°50′R	2.47	247	✓
0°30′	177°15′R	2.30	230	✓
0°30′	175°45′R	2.12	212	✓
0°30′	176°00′R	1.92	192	✓
0°45′	182°45′R	1.75	175	✓
0°50′	175°45′L	1.47	147	✓
0°50′	171°15′L	1.12	112	✓
0°55′	161°35′L	0.78	78	✓
1°15′	135°20′L	0.73	73	✓
1°15′	126°52′L	0.87	87	✓

1°20′	106°55′L	1.01	101	✓
1°20′	91°55′L	1.24	124	✓
1°30′	83°25′L	1.37	137	✓
1°00′	76°30′L	1.63	163	✓
1°00′	73°00′L	1.83	183	✓
1°00′	76°40′L	2.00	200	✓
0°30′	73°15′L	2.28	228	✓
0°25′	68°35′L	2.60	260	✓
0°25′	63°45′L	2.90	290	✓
0°25′	61°30′L	3.12	312	✓
0°30′	63°55′L	3.34	334	✓
0°30′	62°00′L	3.37	337	✓
0°30′	59°30′L	3.60	360	✓
0°30′	54°10′L	3.87	387	✓
0°30′	48°25′L	4.00	400	✓
0°30′	47°45′L	4.10	410	✓

157½ ft. Contour.

0°30′	49°10′L	4.60	460 ✓
0°35′	54°00′L	4.48	448 ✓
0°35′	60°00′L	4.47	447 ✓
0°45′	67°30′L	4.45	446 ✓
0°45′	61°30′L	4.02	402 ✓
0°45′	62°35′L	3.67	367 ✓
0°45′	66°30′L	3.55	355 ✓
0°45′	65°22′L	3.18	318 ✓
0°35′	65°55′L	3.00	300 ✓
0°45′	70°05′L	2.74	274 ✓
0°50′	75°45′L	2.53	253 ✓
1°00′	79°50′L	2.34	234 ✓
0°45′	86°00′L	2.02	202 ✓
0°45′	90°20′L	1.73	173 ✓
1°00′	102°45′L	1.72	172 ✓
1°10′	111°40′L	1.55	155 ✓
1°00′	124°35′L	1.47	147 ✓

1°15′	141°00′L	1.42	142 ✓
1°00′	154°30′L	1.30	130 ✓
1°00′	165°10′L	1.61	161 ✓
1°15′	170°10′L	2.02	202 ✓
1°00′	172°15′L	2.38	238 ✓
1°00′	178°15′L	2.68	268 ✓
1°00′	179°25′L	2.77	277 ✓
1°00′	179°35′L	2.70	270 ✓
1°00′	185°00′L	2.96	296 ✓

160 ft. Contour.

1°00′	182°45′L	3.30	330 ✓
0°55′	177°10′L	3.20	320 ✓
0°50′	173°45′L	2.87	287 ✓
1°15′	170°45′L	2.55	255 ✓
1°15′	170°00′L	2.27	227 ✓
1°30′	165°05′L	1.97	197 ✓
1°30′	157°15′L	1.93	193 ✓

10°

1°30′	149°00′L	1.80	180 ✓
1°30′	138°35′L	1.82	182 ✓
1°30′	127°50′L	1.77	177 ✓
1°35′	119°45′L	1.70	170 ✓
1°45′	110°10′L	1.83	183 ✓
1°45′	99°35′L	1.88	188 ✓
1°45′	92°35′L	1.97	197 ✓
1°40′	87°00′L	2.16	216 ✓
1°40′	83°15′L	2.43	243 ✓
1°30′	77°35′L	2.62	262 ✓
1°30′	72°20′L	2.78	278 ✓
1°25′	69°00′L	3.07	307 ✓
1°00′	68°45′L	3.47	347 ✓
1°00′	69°25′L	3.73	373 ✓
1°00′	64°40′L	3.78	378 ✓
1°00′	63°25′L	4.15	415 ✓
1°05′	66°05′L	4.68	468 ✓
1°00′	59°45′L	4.13	473 ✓
1°00′	55°30′L	4.87	487 ✓
1°00′	50°00′L	4.67	467 ✓

162½ ft. Contour.

1°50′	164°25′L	2.65	265 ✓
1°50′	158°25′L	2.20	220 ✓
1°50′	153°05′L	2.04	204 ✓
1°50′	145°00′L	2.10	210 ✓
1°50′	135°35′L	2.10	210 ✓
2°00′	126°25′L	1.88	188 ✓
2°10′	114°35′L	1.96	196 ✓
2°00′	107°10′L	2.25	225 ✓
1°55′	97°15′L	2.28	228 ✓
1°55′	90°10′L	2.30	230 ✓
1°45′	85°00′L	2.50	250 ✓
2°00′	81°18′L	2.68	268 ✓
2°00′	74°32′L	3.04	304 ✓
1°45′	70°45′L	3.40	340 ✓

Not completed. See page

165 ft. Contour

2°00'	73°05'L	3.32	332 ✓
1°55'	76°55'L	3.03	303 ✓
1°55'	80°06'L	2.80	280 ✓
2°00'	86°25'L	2.60	260 ✓
2°25'	95°00'L	2.40	240 ✓
2°25'	103°52'L	2.45	245 ✓
2°20'	112°50'L	2.35	235 ✓
2°30'	120°55'L	2.26	226 ✓
2°25'	130°20'L	2.33	233 ✓
2°25'	135°04'L	2.27	227 ✓
2°20'	144°30'L	2.30	230 ✓
2°30'	150°25'L	2.26	226 ✓
2°30'	155°35'L	2.45	245 ✓
2°20'	160°45'L	2.78	278 ✓

167½ ft. Contour

2°20'	157°40'L	2.95	295 ✓
2°30'	153°00'L	2.57	257 ✓
2°35'	149°40'L	2.50	250 ✓
2°35'	144°35'L	2.68	268 ✓
2°40'	137°55'L	2.57	257 ✓
3°00'	132°45'L	2.43	243 ✓
2°50'	126°35'L	2.52	252 ✓
2°45'	118°35'L	2.53	253 ✓
2°50'	113°10'L	2.47	247 ✓
2°45'	105°55'L	2.48	248 ✓
2°45'	98°40'L	2.50	250 ✓
2°45'	90°40'L	2.63	263 ✓
2°45'	83°45'L	2.88	288 ✓
2°30'	76°25'L	3.26	326 ✓

170 ft Contour.

2°40′	80°10′L	3.17	317	✓
3°00′	86°50′L	2.95	295	✓
3°00′	93°30′L	2.75	275	✓
3°00′	101°05′L	2.62	262	✓
3°30′	107°10′L	2.57	257	✓
3°30′	114°15′L	2.58	258	✓
3°30′	119°15′L	2.60	260	✓
3°30′	124°45′L	2.64	264	✓
3°25′	129°50′L	2.58	258	✓
3°25′	136°05′L	2.73	273	✓
3°30′	141°45′L	2.90	290	✓
3°30′	148°15′L	2.98	298	✓
3°30′	151°55′L	2.67	267	✓
3°15′	156°15′L	3.04	304	✓

172½ ft. Contours

3°15′	154°35′L	3.13	313	✓
3°20′	151°20′L	2.85	285	✓
3°25′	148°50′L	3.00	300	✓
3°30′	144°15′L	3.04	304	✓
3°30′	139°15′L	2.97	297	✓
3°30′	135°20′L	2.80	280	✓
3°35′	132°15′L	2.67	267	✓
3°35′	127°35′L	2.67	267	✓
3°30′	122°25′L	2.77	277	✓
3°35′	117°10′L	2.73	273	✓
3°35′	109°20′L	2.65	265	✓
3°40′	101°45′L	2.80	280	✓
3°35′	97°35′L	2.87	287	✓
3°35′	90°00′L	2.95	295	✓
3°35′	85°45′L	3.22	322	✓

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175 ft. Contour

3°55′	96°05′L.	3.09	309	✓
3°45′	101°55′L.	2.96	296	✓
4°00′	109°42′L.	2.83	283	✓
4°00′	114°40′L.	2.93	293	✓
4°00′	119°55′L.	2.93	293	✓
4°00′	125°45′L.	2.77	277	✓
4°00′	130°45′L.	2.80	280	✓
4°00′	133°05′L.	2.76	276	✓
400′	136°55′L.	2.87	287	✓
4°00′	140°35′L.	3.04	304	✓
4°00′	145°00′L.	3.07	307	✓
480′	149°05′L.	3.00	300	✓
4°00′	153°35′L.	3.30	330	✓

177½ ft Contour

4°00′	150°40′L.	3.47	347	✓
4°00′	149°05′L.	3.23	323	✓
4°10′	148°25′L.	3.12	312	✓
4°10′	145°00′L.	3.07	307	✓
4°30′	139°35′L.	3.07	307	✓
4°30′	136°50′L.	2.90	290	✓
4°35′	132°50′L.	2.80	280	✓
4°35′	128°15′L.	2.88	288	✓
4°30′	124°00′L.	2.90	290	✓
4°30′	120°45′L.	3.10	310	✓
4°10′	116°55′L.	3.37	337	✓
4°10′	112°55′L.	3.33	333	✓
4°10′	111°00′L.	3.04	304	✓
4°10′	105°03′L.	3.021	302	✓
4°15′	102°50′L.	3.07	307	✓

180 ft. Contour.

4°15′	117°00′L.	2.53	253	✓
4°20′	119°30′L.	3.37	337	✓
4°40′	123°18′L.	3.03	303	✓

18

Vertical Horiz Rod.

4°45′	127°15′L	2.98	298	✓
4°55′	130°50′L	2.90	290	✓
5°00′	133°55′L	2.83	281	
5°00′	136°30′L	2.90	288	
4°50′	134°10′L	3.03	301	✓
4°50′	139°04′L	3.07	305	✓
4°50′	141°33′L	3.08	306	✓
4°50′	144°10′L	3.15	314	✓
4°35′	145°05′L	3.46	345	✓
4°15′	141°50′L	3.57	356	

18½ ft Contour

4°30′	146°45′L	3.67	367	✓
4°45′	143°45′L	3.43	343	✓
5°00′	145°10′L	3.17	315	✓
5°10′	138°55′L	3.10	308	✓
5°15′	136°25′L	2.90	288	

5°30′	133°45′L	2.88	285	✓
5°20′	131°35′L	3.05	302	✓
5°15′	127°15′L	3.14	311	✓
5°15′	123°20′L	3.24	321	✓
5°00′	120°00′L	3.46	344	✓
5°00′	118°55′L	3.60	358	

18 ft. Contour

4°50′	122°55′L	3.65	363	✓
4°55′	123°45′L	3.47	345	✓
5°15′	129°00′L	3.22	319	✓
5°20′	132°35′L	3.17	314	✓
5°35′	134°52′L	3.20	317	✓
5°30′	137°15′L	3.10	307	✓
5°30′	140°30′L	3.27	324	✓
5°00′	144°20′L	3.60	358	✓
4°45′	145°55′L	3.75	373	✓

18½ ft. Contour

5°10′	144°20′L	3.87	384 ✓
5°20′	141°15′L	3.56	354 ✓
5°40′	136°45′L	3.24	321 ✓
5°40′	132°00′L	3.35	332 ✓
5°30′	128°55′L	3.67	364 ✓
5°30′	127°05′L	3.77	374 ✓

△ Pt. on 16th St. range line 300 ft N of So. line of Park.

→ 16th St range line produced northerly

19 ft. Contour

5°30′	49°30′R	3.90	387 ✓
5°45′	47°10′R	3.66	363 ✓
6°00′	43°15′R	3.50	346 ✓
5°35′	39°00′R	3.80	377 ✓
5°15′	36°00′R	4.18	415 ✓
4°15′	32°35′R	4.42	440 ✓
4°30′	30°00′R	4.60	458 ✓
4°30′	25°55′R	4.75	473 ✓
4°20′	22°55′R	5.87	6-85
4°20′	20°05′R	5.00	498 ✓
4°00′	17°25′R	5.20	518 ✓
3°50′	14°20′R	5.48	546 ✓
3°40′	12°30′R	5.72	571 ✓
3°40′	12°15′R	6.13	612 ✓

185 ft. Contour.

3°05′	9°30′R	6.10	610 ✓
3°00′	9°42′R	5.84	584 ✓
3°20′	12°00′R	5.38	538 ✓
3°40′	16°00′R	5.00	500 ✓
3°40′	18°30′R	4.13	473 ✓
4°00′	22°05′R	4.58	458 ✓
4°00′	25°10′R	4.47	447 ✓

4°05'	29°18'R	4.23	423 ✓
4°10'	31°24'R	4.05	405 ✓
4°45'	33°53'R	3.78	378 ✓
4°50'	36°08'R	3.50	350 ✓
5°05'	38°20'R	3.38	335 ✓

180 ft. Contour

4°15'	31°15'R	3.64	362 ✓
4°15'	26°30'R	3.87	385 ✓
3°45'	23°20'R	4.18	416 ✓
3°50'	20°00'R	4.40	438 ✓
3°30'	16°35'R	4.65	464 ✓
3°30'	12°25'R	5.00	500 ✓
3°15'	10°15'R	5.22	522 ✓
3°00'	8°15'R	5.53	553 ✓
2°45'	7°00'R	5.94	594 ✓

175 ft. Contour

2°00'	5°00'R	6.00	600 ✓
2°00'	6°30'R	5.74	574 ✓
2°10'	6°37'R	5.47	547 ✓
2°15'	8°03'R	5.26	528 ✓
2°15'	9°05'R	4.96	496 ✓
2°30'	10°38'R	4.70	470 ✓
2°35'	12°30'R	4.48	448 ✓
3°00'	16°07'R	4.20	420 ✓
3°10'	19°38'R	3.85	385 ✓
3°30'	23°30'R	3.57	357 ✓
3°35'	27°45'R	3.30	330 ✓

172½ ft. Contour

3°30'	25°30'R	3.15	315 ✓
3°25'	22°30'R	3.38	338 ✓
3°00'	19°45'R	3.61	367 ✓
2°45'	17°25'R	3.90	390 ✓

2°40′	14°40′R	4.02	402 ✓
2°30′	11°00′R	4.38	438 ✓
2°15′	10°00′R	4.70	470 ✓
2°10′	9°05′R	4.90	490 ✓
2°00′	7°55′R	5.12	512 ✓
2°00′	6°45′R	5.40	540 ✓
1°50′	5°25′R	5.64	564 ✓
1°50′	4°20′R	5.83	583 ✓

170 ft. Contour.

1°45′	3°55′R	5.77	577 ✓
1°45′	5°55′R	5.47	547 ✓
1°45′	6°45′R	5.28	528 ✓
1°50′	7°45′R	5.07	507 ✓
2°00′	8°38′R	4.86	486 ✓
2°10′	10°20′R	4.57	457 ✓
2°10′	10°25′R	4.30	430 ✓
2°15′	11°35′R	4.07	407 ✓
2°15′	16°05′R	3.80	380 ✓
2°35′	20°00′R	3.48	348 ✓
2°40′	22°20′R	3.15	315 ✓
2°45′	23°38′R	3.00	300 ✓

167½ ft. Contour.

2°30′	22°18′R	2.96	296 ✓
2°15′	19°50′R	3.12	312 ✓
2°00′	16°25′R	3.30	330 ✓
2°00′	12°10′R	3.74	374 ✓
2°00′	10°25′R	3.95	395 ✓
2°00′	9°05′R	4.07	407 ✓
2°00′	9°55′R	4.30	430 ✓
2°00′	9°25′R	4.50	450 ✓
1°45′	8°00′R	4.73	473 ✓
1°40′	7°15′R	5.10	510 ✓
1°30′	5°55′R	5.30	530 ✓
1°35′	4°05′R	5.53	553 ✓

1°25'	2°47'R	5.74	574	✓

165 ft. Contour.

1°10'	2°25'R	5.67	567	✓
1°15'	3°40'R	5.47	547	✓
1°15'	5°00'R	5.27	527	✓
1°15'	6°35'R	5.10	510	✓
1°15'	6°40'R	4.86	486	✓
1°30'	7°12'R	4.53	453	✓
1°30'	7°35'R	4.26	426	✓
1°35'	8°35'R	4.07	407	✓
1°35'	10°20'R	3.96	396	✓
1°35'	12°08'R	3.72	372	✓
1°15'	14°45'R	3.40	340	✓
2°00'	16°15'R	3.20	320	✓
2°00'	15°55'R	3.05	305	✓
1°00'	19°35'R	2.78	278	✓

162½ ft. Contour.

2°00'	15°10'R	2.63	263	✓
2°00'	14°45'R	2.93	293	✓
2°00'	15°00'R	3.13	313	✓
2°00'	15°08'R	3.34	334	✓
2°00'	12°30'R	3.65	365	✓
2°00'	10°30'R	3.90	390	✓
2°00'	9°00'R	4.07	407	—
1°20'	6°55'R	4.25	425	✓
1°10'	6°10'R	4.53	453	✓
1°15'	5°22'R	4.88	488	✓
1°15'	4°10'R	5.24	524	✓
1°00'	2°15'R	5.53	553	✓

160 ft. Contour.

1°00'	1°12'R	5.47	547	✓
1°10'	3°15'R	5.17	517	✓
1°15'	4°25'R	4.76	476	✓

Vertl.	Horiz.	Rod.	
1°30'	5°04'R	4.30	430 ✓
1°30'	8°25'R	4.00	400 ✓
1°30'	11°08'R	3.78	378 ✓
1°30'	13°30'R	3.48	348 ✓
1°45'	14°35'R	3.25	325 ✓
1°45'	14°15'R	3.00	300 ✓
1°40'	11°55'R	2.80	280 ✓
1°45'	8°00'R	3.00	300 ✓
1°45'	6°30'R	3.24	324 ✓
1°45'	4°45'R	3.47	347 ✓
1°45'	2°50'R	3.68	368 ✓
1°40'	1°15'R	3.85	385 ✓
1°40'	3°35'R	4.07	407 ✓
1°40'	5°10'R	4.27	427 ✓

Discontd above manhole around drill hole on 6th St.

Contours 150 - 152½ - 155 Contours 6th back of Roadway on 6th St. just South of Elm

△ Pt. on 6th St. range line at 848 ft. N. of So. line of Park.
→ 6th St. range line produced northerly.

150 ft. Contour.

7°30'	6°35'L	0.41	40 ✓
7°30'	3°45'L	0.58	57 ✓
7°15'	1°35'L	0.80	79 ✓
7°15'	1°45'L	0.82	81 ✓
7°00'	0°15'L	0.55	54 ✓
7°20'	1°45'L	0.49	48 ✓
7°30'	1°00'L	0.70	69 ✓
5°30'	1°55'R	1.04	103 ✓
5°15'	3°25'R	1.30	129 ✓
3°50'	3°35'R	1.60	160 ✓

152½ ft. Contour.

3°00'	6°05'R	1.67	167 ✓

3°00′	5°55′R	1.28	128 ✓
3°50′	5°50′R	0.97	97 ✓
3°45′	4°00′R	0.62	62 ✓
4°45′	3°25′L	0.40	40 ✓
10°00′	18°45′L	0.34	33 ✓
10°00′	26°40′L	0.43	42 ✓
7°30′	23°05′L	0.61	60 ✓
7°10′	32°10′L	0.61	60 ✓
7°10′	51°15′L	0.44	43 ✓
7°00′	69°45′L	0.37	36 ✓
155 ft Contour.			
7°30′	71°55′L	0.33	32 ✓
7°00′	48°15′L	0.42	41 ✓
7°00′	33°30′L	0.38	37 ✓
9°15′	40°10′L	0.22	21 ✓
5°30′	27°55′L	0.18	18 ✓
5°00′	3°45′R	0.39	39 ✓

5°10′	11°10′R	0.62	61 ✓
5°10′	13°55′R	0.91	90 ✓
2°30′	8°50′R	1.18	118 ✓
2°30′	11°22′R	1.50	150 ✓
2°00′	9°00′R	1.75	175 ✓
1°10′	17°45′R	2.08	208 ✓
1°00′	10°35′R	2.34	234 ✓
1°00′	6°35′R	2.58	258 ✓
0°00′	4°00′R	2.83	283 ✓
1°10′	3°15′L	2.45	245 ✓
1°10′	5°05′L	2.20	220 ✓
1°10′	10°00′L	2.02	202 ✓
1°15′	11°20′L	1.96	196 ✓
160 ft Contour.			
1°00′	37°45′R	0.32	32 ✓
1°10′	25°08′R	0.67	67 ✓
1°15′	18°00′R	1.18	118 ✓

1°15′	14°35′R	1.51	151 ✓
0°30′	13°45′R	1.79	179 ✓
1°30′	15°45′R	2.08	208 ✓
1°30′	17°00′R	2.45	245 ✓
1°30′	9°20′R	2.78	278 ✓
1°00′	7°15′R	3.20	320 ✓
1°00′	7°30′R	3.60	360 ✓
0°00′	1°15′L	3.47	347 ✓
0°10′	4°35′L	3.23	323 ✓
0°45′	6°35′L	3.03	303 ✓
0°45′	7°05′L	2.67	267 ✓
0°45′	6°35′L	2.38	238 ✓
0°45′	13°45′L	2.03	203 ✓
165 ft. bottom			
0°45′	10°15′L	2.30	230 ✓
1°00′	8°15′L	2.58	258 ✓
1°30′	9°00′L	2.90	290 ✓

1°15′	9°15′L	3.20	320 ✓
1°00′	3°50′L	3.47	347 ✓
1°00′	1°40′L	3.65	365 ✓
1°00′	0°30′R	3.90	390 ✓
1°00′	1°35′R	4.10	410 ✓
1°10′	3°55′R	4.40	440 ✓
1°05′	5°15′R	4.68	468 ✓
1°00′	5°55′R	4.95	495 ✓
1°00′	7°15′R	5.30	530 ✓
1°00′	9°10′R	5.63	563 ✓
1°00′	10°05′R	5.45	545 ✓
1°20′	10°35′R	5.10	510 ✓
1°30′	10°30′R	4.65	465 ✓
1°20′	9°55′R	4.27	427 ✓
1°20′	9°15′R	3.96	396 ✓
1°30′	9°55′R	3.63	363 ✓
1°10′	9°40′R	3.28	328 ✓
1°10′	15°00′R	3.00	300 ✓

110'	12°50'R	2.68	268 ✓
190'	16°10'R	2.33	233 ✓
220'	18°20'R	2.08	208 ✓
200'	16°35'R	1.66	166 ✓
200'	18°35'R	1.32	132 ✓
200'	22°22'R	1.15	115 ✓
215'	24°30'R	0.84	84 ✓
230'	34°05'R	0.50	50 ✓
530'	59°45'R	0.58	28 ✓

7/14/03 Alvarado Mc Laren Anderson Lindo.

A Pt on 6th St. rangeline 300 ft. N. of So. line of Park → on So. line of Park. 147½ ft Contour.

200'	15°30'R	1.60	160 ✓
200'	16°35'R	1.09	109 ✓
400'	17°15'R	0.68	68 ✓
400'	13°55'L	0.65	65 ✓
400'	20°45'L	1.08	108 ✓
320'	27°40'L	1.35	135 ✓
240'	35°45'L	1.48	148 ✓
230'	44°20'L	1.65	165 ✓
210'	41°10'L	1.96	196 ✓
150'	35°18'L	2.28	228 ✓
130'	38°45'L	2.58	258 ✓

1°10′	40°55′L	2.90	290
1°10′	37°32′L	3.17	317
1°00′	34°20′L	3.37	337

152½ ft. Contour

0°15′	41°07′L	4.00	400
0°15′	42°10′L	3.71	371
0°15′	47°00′L	3.53	353
0°10′	54°52′L	3.58	358
0°00′	56°20′L	3.31	331
0°10′	58°07′L	3.00	300
0°15′	62°55′L	2.56	256
0°15′	63°45′L	2.22	222
0°30′	65°47′L	1.88	188
0°30′	70°46′L	1.56	156
0°35′	71°00′L	1.35	135
1°00′	79°25′L	1.05	105
1°00′	78°10′L	0.84	84

1°00′	78°42′L	0.79	79
1°00′	71°00′L	0.61	61
1°00′	58°35′L	0.44	44
1°00′	94°55′L	0.23	23
1°00′	168°00′R	0.17	17

△ Pt on 8th ft navigation line at
B 5+25 left
→ B0

170 ft. Contour

15°00′	171°45′L	0.31	31
10°30′	119°00′L	0.42	42
5°40′	102°12′L	0.84	84
4°10′	95°45′L	1.10	110
4°00′	87°25′L	1.44	144
3°20′	89°10′L	1.89	189
3°10′	89°25′L	2.22	222
2°15′	88°30′L	2.50	250

2°25′	90°40′L	2.75	275
1°20′	88°40′L	3.17	317
1°05′	89°00′L	3.55	355

175 ft. Contour

1°10′	87°05′L	3.57	357
0°55′	86°00′L	3.28	328
1°30′	87°55′L	2.88	288
1°35′	86°42′L	2.62	262
1°45′	85°30′L	2.43	243
1°50′	85°50′L	2.23	223
2°00′	86°00′L	1.96	196
2°00′	83°30′L	1.60	160
2°15′	83°00′L	1.32	132
2°15′	87°50′L	1.05	105
4°30′	92°15′L	0.70	70
7°20′	100°13′L	0.39	38
16°35′	176°35′L	0.18	17

180 ft. Contour

0°00′	156°45′L	0.05	5
0°50′	87°40′L	0.30	30
0°35′	76°25′L	0.70	70
0°35′	79°25′L	0.98	98
0°50′	78°25′L	1.40	140
0°55′	81°55′L	1.84	184
0°45′	82°35′L	2.23	223
0°45′	82°25′L	2.47	247
0°45′	85°00′L	2.75	275
0°15′	84°55′L	3.00	300
0°05′	84°15′L	3.25	325
0°00′	84°50′L	3.57	357

185 ft. Contour

0°30′	83°00′L	3.57	357
0°45′	82°00′L	3.30	330
0°40′	82°45′L	2.90	290

0°35'	79°25'L.	2.53	253 ✓
0°40'	79°08'L.	1.17	117
8°40'	76°25'L.	1.70	170 ✓
1°00'	72°00'L.	1.33	133 ✓
1°00'	62°25'L.	0.98	98 ✓
2°10'	55°10'L.	0.50	50 ✓
1°45'	9°06'L.	0.31	31 ✓

190 ft. Contour.

6°00'	8°45'L.	0.57	56 ✓
6°00'	32°00'L.	0.73	72 ✓
3°45'	49°35'L.	0.96	96 ✓
3°45'	58°45'L.	1.26	126 ✓
3°00'	66°05'L.	1.68	168 ✓ 158
2°15'	71°45'L.	2.98	298
2°15'	72°25'L.	2.47	247 ✓
1°50'	76°45'L.	2.88	288 ✓
1°50'	79°35'L.	3.16	316 ✓
1°30'	79°30'L.	3.34	334 ✓
1°30'	80°45'L.	3.57	357 ✓

195 ft. Contour.

2°00'	78°15'L.	3.63	363 ✓
2°10'	75°25'L.	3.25	325 ✓
2°30'	71°25'L.	2.96	296 ✓
2°45'	78°12'L.	2.77	277
3°20'	65°00'L.	2.43	243 ✓
3°30'	64°20'L.	2.10	210 ✓
3°30'	60°20'L.	1.68	168 ✓
5°30'	52°25'L.	1.40	139 ✓
5°50'	43°52'L.	1.10	109 ✓
6°45'	24°00'L.	0.83	82 ✓

200 ft. Contour.

8°50'	5°12'L.	1.05	103 ✓
8°35'	23°05'L.	1.05	103 ✓

7°00'	38°10'L	1.28	126
6°30'	45°50'L	1.53	151
5°30'	52°30'L	1.81	180
4°35'	60°10'L	2.22	221
4°10'	62°38'L	2.60	259
3°20'	65°35'L	2.84	284
3°05'	67°40'L	3.08	308
3°00'	71°50'L	3.33	333
2°50'	75°06'L	3.67	367

△ At ow 8th Intermediate line at C6

→ C0

700 ft. Contour

0°40'	55°37'R	3.00	300
0°30'	49°30'R	2.67	267
0°30'	43°25'R	2.43	243
0°35'	31°45'R	2.05	205
0°35'	24°20'R	2.04	204
0°30'	15°08'R	2.04	204
0°30'	3°05'R	2.15	215
0°30'	6°45'L	2.17	217
0°35'	19°50'L	2.32	232
0°35'	29°15'L	2.34	234

705 ft. Contour

0°30'	26°15'L	2.43	243
0°30'	17°00'L	2.40	240
0°35'	9°22'L	2.33	233
0°30'	2°30'L	2.25	225
0°30'	2°28'R	2.26	226
0°40'	10°10'R	2.17	217
0°40'	22°20'R	2.14	214
0°30'	31°10'R	2.22	222
0°30'	39°00'R	2.43	243
0°30'	45°00'R	2.66	266

Vertical	Horiz. Rod.		
0°30′	49°30′R	2.87	287 ✓
0°30′	53°15′R	3.15	315 ✓
0°30′	54°48′R	3.40	340 ✓
0°30′	55°55′R	3.73	373 ✓
0°30′	57°20′R	4.04	404 ✓
0°30′	60°00′R	4.30	430 ✓
0°30′	63°30′R	4.64	464 ✓
0°30′	65°52′R	4.96	496 ✓
0°15′	68°30′R	5.48	548 ✓
10 ft Contour			
0°45′	63°12′R	5.53	553 ✓
1°00′	62°04′R	5.05	505 ✓
1°00′	58°55′R	4.57	457 ✓
1°00′	55°00′R	4.35	435 ✓
1°00′	53°30′R	3.93	393 ✓
1°00′	51°07′R	3.57	357 ✓
1°15′	47°40′R	3.12	312 ✓
1°15′	42°05′R	2.78	278 ✓
2°00′	32°45′R	2.47	247 ✓
2°00′	24°30′R	2.33	233 ✓
2°00′	15°00′R	2.24	224 ✓
2°00′	11°00′R	2.23	223 ✓
2°00′	2°05′L	2.38	238 ✓
2°00′	5°45′L	2.38	238 ✓
1°50′	13°52′L	2.47	247 ✓
2°00′	20°30′L	2.50	250 ✓
2°00′	25°13′L	2.54	254 ✓
15 ft. Contour			
3°10′	24°30′L	2.64	264 ✓
3°15′	14°55′L	2.57	257 ✓
3°15′	9°30′L	2.53	253 ✓
3°15′	6°25′L	2.46	246 ✓
3°15′	1°50′L	2.47	247 ✓

3°00′	2°20′ R	2.48	248
3°15′	10°05′ R	2.42	242
3°15′	17°07′ R	2.43	243
3°15′	27°37′ R	2.66	266
3°00′	35°25′ R	2.96	296
3°00′	39°42′ R	3.28	328
2°40′	42°35′ R	3.60	360
2°20′	47°00′ R	4.16	416

△ Pt on 8th St. range line at C4 left.
→ C6
170 ft. Contour

4°00′	64°07′ L	2.67	267
4°15′	63°45′ L	2.34	234
3°00′	61°00′ L	1.95	194
6°45′	53°00′ L	1.47	145
8°15′	38°35′ L	1.20	118

8°00′	35°25′ L	0.75	74
17°00′	3°15′ L	0.58	53
17°00′	41°55′ R	0.57	52
12°30′	57°00′ R	0.78	74
8°30′	57°30′ R	1.18	115
13°00′	50°12′ R	0.77	73
14°20′	29°25′ R	0.68	64
12°40′	0°30′ L	0.78	74
9°30′	18°10′ L	1.05	102
7°20′	20°10′ L	1.34	132
7°00′	26°30′ L	1.55	153
6°40′	33°45′ L	1.68	166
6°15′	45°25′ L	1.88	186
5°00′	47°15′ L	2.37	235
4°00′	48°00′ L	2.77	276
3°30′	50°18′ L	3.13	313
3°20′	52°30′ L	3.43	343
3°10′	52°45′ L	3.77	377

48

3°10′	52°30′L	3.93	393
3°00′	52°50′L	4.04	404

175 ft. Contour

3°30′	51°20′L	3.90	390
3°00′	51°45′L	3.55	355
3°30′	50°15′L	3.30	330
3°30′	48°00′L	3.07	307
4°00′	46°15′L	2.70	270
5°00′	43°00′L	2.28	226
6°00′	37°35′L	1.87	185
6°20′	28°00′L	1.70	168
6°30′	19°40′L	1.51	149
7°50′	13°30′L	1.28	126
10°00′	5°35′L	0.97	94
13°00′	15°10′R	0.82	78
11°30′	44°10′R	0.87	84
9°30′	50°50′R	1.13	112

8°30′	58°55′R	1.34	131
6°35′	68°35′R	1.50	148
5°15′	72°15′R	1.68	167
6°00′	71°18′R	1.45	143
8°00′	62°15′R	1.23	121
9°45′	63°00′R	1.04	101
15°00′	61°45′R	0.67	63
22°00′	29°35′R	0.45	39
18°00′	29°40′L	0.54	49
12°00′	41°10′L	0.83	79
9°20′	44°20′L	1.12	109
7°50′	54°00′L	1.31	129
4°50′	69°15′L	1.64	164
2°30′	65°30′L	2.05	205
1°20′	66°30′L	2.70	270

180 ft Contour

100′	69°15′L	2.65	265

1°00′	70°00′L	2.05	205	✓
4°00′	61°55′L	1.38	138	✓
6°45′	52°46′L	1.01	99	✓
9°00′	43°30′L	0.70	68	✓
15°30′	37°15′L	0.44	41	✓
22°00′	16°10′R	0.31	27	✓
14°30′	66°50′R	0.50	47	✓
9°40′	70°25′R	0.84	82	✓
7°20′	70°18′R	1.15	113	✓
3°00′	78°45′R	1.50	150	✓
3°00′	75°25′R	1.90	190	✓
2°05′	78°45′R	2.24	224	✓
2°00′	75°45′R	2.56	256	✓
2°00′	76°08′R	2.75	275	✓
2°10′	75°45′R	2.40	240	✓
2°10′	74°35′R	2.20	220	✓
2°50′	69°20′R	1.96	196	✓
3°00′	68°45′R	1.70	170	✓

3°30′	61°35′R	1.51	151	✓
4°00′	51°15′R	1.31	131	✓
5°00′	45°05′R	1.07	107	✓
5°00′	38°30′R	0.94	93	✓
5°30′	47°25′R	0.94	93	✓
5°00′	4°30′L	1.17	116	✓
4°10′	9°55′L	1.38	138	✓
3°25′	15°45′L	1.60	160	✓
3°15′	26°35′L	1.77	177	✓
2°50′	35°00′L	1.93	193	✓
2°30′	40°15′L	2.30	230	✓
2°00′	42°50′L	2.53	253	✓
1°50′	45°35′L	3.02	302	✓
1°30′	49°45′L	3.40	340	✓
2°00′	50°05′L	3.63	363	✓

185 ft contours.

1°45′	45°15′L	3.30	330	✓

1°40′	43°25′L	2.90	290
2°00′	40°00′L	2.50	250
2°00′	33°05′L	2.00	200
3°30′	15°10′L	1.73	173
3°50′	4°10′L	1.40	140
3°35′	6°40′R	1.10	110
3°45′	26°55′R	1.07	107
3°30′	43°00′R	1.25	125
3°25′	56°50′R	1.60	160
3°00′	65°55′R	1.92	192
2°00′	75°10′R	2.43	243
2°00′	72°25′R	2.77	277
1°20′	60°30′R	3.25	325
1°00′	78°25′R	3.53	353

190 ft. Contour.

1°00′	77°40′R	3.20	320
1°00′	74°30′R	3.04	304

1°00′	70°50′R	2.83	283
1°00′	69°30′R	2.50	250
1°00′	65°45′R	2.23	223
1°00′	62°00′R	1.85	185
2°00′	51°55′R	1.68	168
2°00′	43°25′R	1.43	143
2°15′	35°15′R	1.22	122
2°15′	20°25′R	1.17	117
2°00′	4°15′R	1.31	131
2°00′	5°40′L	1.60	160
2°00′	14°05′L	1.83	183
1°30′	22°35′L	1.90	190
1°30′	31°45′L	2.10	210
1°00′	35°15′L	2.48	248

195 ft. Contour.

0°10′	24°35′L	2.40	240
0°00′	18°10′L	2.00	200

0°00'	10°15'L	1.88	188 ✓
0°00'	2°00'L	1.63	163 ✓
0°00'	11°40'R	1.30	130 ✓
0°30'	26°18'R	1.31	131 ✓
0°30'	39°00'R	1.50	150 ✓
0°30'	44°55'R	1.72	172 ✓
0°00'	54°50'R	1.91	191 ✓
0°00'	60°00'R	2.00	200 ✓
0°10'	64°00'R	2.31	231 ✓
0°00'	67°15'R	2.60	260 ✓
0°00'	69°55'R	2.90	290 ✓
0°00'	74°05'R	3.26	326 ✓

200 ft. Contour

1°00'	71°25'R	3.33	333 ✓
1°00'	69°10'R	3.00	300 ✓
1°00'	66°20'R	2.70	270 ✓
1°00'	68°45'R	2.37	237 ✓
1°15'	57°55'R	2.12	212 ✓
1°15'	49°45'R	2.00	200 ✓
1°30'	45°35'R	1.82	182 ✓
1°30'	30°45'R	1.60	160 ✓
1°30'	19°20'R	1.58	158 ✓
1°30'	10°45'R	1.62	162 ✓
1°30'	P 5'L	1.88	188 ✓

205 ft. Contour

2°30'	32°15'R	1.98	198 ✓
2°15'	46°05'R	2.18	218 ✓
2°15'	54°50'R	2.17	217 ✓
2°15'	68°22'R	2.50	250 ✓
2°30'	64°40'R	2.75	275 ✓
2°15'	69°35'R	3.25	325 ✓

210 ft. Contour

2°45'	68°00'R	3.28	328

3°00′	6°38′R	3.03	303 ✓
3°00′	6°05′R	2.73	273 ✓
2°45′	5°00′R	2.44	244 ✓
3°15′	4°10′R	2.43	243 ✓

△ Pt. on 8th St. range line at

C 6

→ C 4

195 ft. Contour.

1°30′	5°07′R	2.87	287 ✓
1°30′	5°15′R	2.58	258 ✓
1°30′	4°50′R	2.40	240 ✓
1°45′	4°30′R	2.20	220 ✓
2°15′	3°05′R	2.00	200 ✓
2°30′	1°45′R	1.96	196 ✓
2°20′	0°55′R	2°00′	200 ✓
2°15′	3°15′L	2.07	207 ✓
2°15′	11°10′L	2.13	213 ✓
2°00′	16°35′L	2.20	220 ✓
1°45′	21°45′L	2.23	223 ✓
1°35′	27°20′L	2.24	224 ✓

190 ft. Contour.

3°30′	28°25′L	2.13	213 ✓
3°30′	18°15′L	2.10	210 ✓
3°30′	11°08′L	2.05	205 ✓
3°30′	1°00′R	1.93	193 ✓
3°30′	1°50′R	1.88	188 ✓
3°30′	2°30′R	1.80	180 ✓
4°00′	3°10′R	1.88	188 ✓
4°00′	3°00′R	2.02	202 ✓
3°45′	4°55′R	2.20	221 ✓
3°15′	5°35′R	2.45	245 ✓
3°00′	6°00′R	2.73	273 ✓

185 ft. Contour

2°45'	63°45'R	2.68	268	✓
3°00'	55°00'R	2.40	240	✓
3°00'	46°45'R	2.10	210	✓
4°00'	38°45'R	1.86	186	✓
4°00'	26°15'R	1.68	168	✓
4°00'	9°30'R	1.80	180	✓
4°00'	0°45'L	1.84	184	✓
4°00'	8°45'L	1.90	190	✓
3°45'	15°00'L	1.98	198	✓
3°45'	23°50'L	2.00	200	✓
3°35'	28°35'L	2.02	202	✓

2/16/03. Alverson
McLaren.
Arginsole
Luce

△ Pt. on 8th St. range line at
C 3+35 left.
→ C 6.
185 ft. Contour.

13°00'	47°50'R	1.37	130	x
13°10'	53°50'R	1.60	152	x
11°10'	59°45'R	1.76	169	x
9°30'	61°45'R	2.15	209	x
8°00'	64°25'R	2.37	232	x
8°10'	66°25'R	2.58	253	x
7°35'	65°20'R	2.92	287	x
6°00'	68°35'R	3.20	317	x
4°30'	73°00'R	3.30	329	✓
5°00'	71°30'R	3.60	357	x
2°45'	69°45'R	3.85	383	✓

190 ft. Contour

3°20′	63°20′R	4.70	470	✓
3°30′	63°06′R	4.37	437	✓
3°45′	65°00′R	4.13	413	✓
3°45′	67°45′R	3.98	398	✓
4°00′	70°50′R	3.80	380	✓
4°15′	73°20′R	3.52	352	✓
3°00′	76°35′R	3.35	335	✓
4°40′	72°30′R	3.18	318	✓
5°30′	68°15′R	2.96	293	✗
5°45′	68°20′R	2.58	255	✗
7°10′	66°18′R	2.22	219	✗
9°00′	64°15′R	1.82	178	✗
9°15′	58°30′R	1.60	156	✗
13°00′	52°30′R	1.34	129	✗

195 ft. Contour

10°00′	56°50′R	1.24	120	✗
9°35′	61°50′R	1.52	148	✗
6°35′	68°15′R	1.80	178	✗
6°30′	69°30′R	2.10	208	✗
5°15′	70°15′R	2.45	243	✗
5°15′	71°00′R	2.75	273	✗
5°10′	71°10′R	3.00	298	✗
3°40′	75°05′R	3.15	315	✓
3°15′	78°30′R	3.35	335	✓
3°45′	75°50′R	3.45	345	✓
3°20′	72°40′R	3.77	377	✓
3°30′	70°50′R	4.00	400	✓
3°30′	66°35′R	4.15	415	✓
3°30′	64°18′R	4.43	443	✓
3°15′	64°45′R	4.88	488	✓
3°00′	64°15′R	5.30	530	✓

200 ft. Contour

2°15′	65°45′R	5.22	522

6.78

Vertical Stadia Rods

2°20′	65°55′R	4.83	483	✓
2°15′	65°55R	4.60	460	✓
2°20′	68°10R	4.30	430	✓
2°20′	72°30R	4.13	413	✓
2°30′	74°38R	3.78	378	✓
2°35′	78°10R	3.50	350	✓
2°00′	79°40R	3.45	345	✓
2°30′	77°38R	3.12	312	✓
3°30′	72°55R	2.90	290	✓
3°35′	73°12R	2.50	250	✓
4°45′	72°20R	2.18	218	✓
4°40′	71°50R	1.84	184	✓
6°20′	68°30R	1.52	150	✓
4°30′	69°45R	1.22	120	

205 ft. Contour ✓

4°15′	66°55R	1.19	115	✓
5°45′	71°35R	1.50	148	✓
3°45′	74°45R	1.77	177	✓
3°45′	75°10R	2.11	211	✓
3°30′	75°30R	2.47	247	✓
3°20′	75°06R	2.88	288	✓
1°50′	80°00R	3.11	311	✓
1°25′	81°00R	3.48	348	✓
1°35′	80°20R	3.75	375	✓
1°40′	77°30R	3.71	371	✓
1°35′	75°20R	4.06	406	✓
1°40′	72°05R	4.28	428	✓
1°40′	69°05R	4.47	447	✓
1°50′	69°00R	4.63	463	✓
2°00′	67°30R	4.67	467	✓
1°50′	66°55R	5.18	518	✓

210 ft. Contour

1°25′	68°15R	5.18	518	✓

1°30'	69°00'R	4.74	474 ✓
1°30'	70°16'R	4.67	467 ✓
1°35'	72°00'R	4.47	447 ✓
1°35'	75°30'R	4.28	428 ✓
1°40'	78°00'R	3.87	387 ✓
1°00'	81°37'R	3.90	390 ✓
0°40'	84°30'R	3.56	356 ✓
0°45'	82°05'R	3.17	317 ✓
1°30'	79°00'R	2.90	290 ✓
1°30'	77°22'R	2.48	248 ✓
1°30'	77°52'R	2.08	208 ✓
1°30'	77°37'R	1.78	178 ✓
3°15'	73°35'R	1.36	136 ✓
3°30'	71°50'R	1.16	116 ✓

215 ft. Contour

3°40'	77°05'R	1.10	110 ✓
3°15'	78°16'R	1.43	143 ✓

1°35'	81°15'R	1.75	175 ✓
1°30'	80°40'R	2.12	212 ✓
0°50'	81°55'R	2.48	248 ✓
0°50'	82°00'R	2.88	288 ✓
0°20'	84°45'R	3.17	317 ✓
0°15'	79°30'R	3.50	350 ✓
0°15'	83°35'R	3.84	384 ✓
0°15'	83°05'R	4.10	410 ✓
0°15'	79°30'R	4.00	400 ✓
0°45'	77°05'R	4.34	434 ✓
0°15'	72°30'R	4.57	457 ✓
0°15'	70°10'R	4.77	477 ✓
0°15'	69°30'R	5.05	505 ✓
0°15'	69°32'R	5.17	517 ✓

220 ft. Contour

0°15'	70°20'R	5.17	517 ✓
0°15'	71°08'R	4.88	488 ✓

0°15'	72°00'R	4.73	473 ✓
0°15'	75°10'R	4.63	463 ✓
0°15'	78°10'R	4.45	445 ✓
0°00'	82°00'R	4.32	432 ✓
0°00'	84°07'R	4.24	424 ✓
0°00'	85°45'R	3.90	390 ✓
0°00'	86°45'R	3.45	345 ✓
0°15'	86°55'R	3.04	304 ✓
0°20'	85°50'R	2.67	267 ✓
0°15'	85°12'R	2.24	224 ✓
0°15'	84°50'R	1.84	184 ✓
0°30'	83°45'R	1.44	144 ✓
0°20'	83°15'R	1.04	104 ✓

△ Pt. on 8th St. range line at
□ 5+87 left.
→ □ 0.

220 ft. Contours

3°10'	55°00'R	1.20	120 ✓
3°10'	54°15'R	1.00	100 ✓
3°30'	53°05'R	0.86	86 ✓
5°00'	48°55'R	0.77	76 ✓
5°00'	5°45'R	0.77	76 ✓
5°00'	14°30'L	0.80	79 ✓

The above readings to join, and overlap readings taken in Book 1. Following are contours on right hand of Mulvey Canyon.

320 ft. Contours

2°20'	96°10'R	2.17	217 ✓
2°30'	96°35'R	1.74	174 ✓

68

2°50′	98°00′R	1.48	148 ✓
3°00′	103°50′R	1.20	120 ✓
3°30′	111°00′R	0.93	93 ✓
6°45′	116°00′R	0.58	57 ✓
6°45′	115°30′R	0.45	45 ✓

215 ft Contour

6°30′	104°45′R	0.49	48 ✓
6°30′	107°15′R	0.73	72 ✓
6°30′	104°30′R	0.98	97 ✓
6°30′	100°00′R	1.20	118 ✓
4°30′	95°05′R	1.46	146 ✓
4°10′	94°30′R	1.78	178 ✓
4°00′	95°50′R	2.08	208 ✓
3°40′	92°25′R	2.32	232 ✓
3°10′	88°55′R	2.55	255 ✓
3°00′	85°05′R	2.73	273 ✓
2°50′	81°30′R	2.87	287 ✓

69

2°50′	79°20′R	2.96	296 ✓

210 ft. Contour.

3°15′	77°37′R	3.00	300 ✓
3°30′	81°40′R	2.75	275 ✓
4°00′	86°15′R	2.55	255 ✓
4°15′	90°00′R	2.28	228 ✓
6°00′	92°00′R	1.90	188 ✓
6°15′	92°08′R	1.51	149 ✓
10°15′	95°55′R	1.23	119 ✓
10°35′	100°18′R	0.92	89 ✓
15°15′	99°25′R	0.70	65 ✓
17°30′	91°47′R	0.56	51 ✓

205 ft Contour

22°15′	88°30′R	0.60	51 ✓
16°00′	91°20′R	0.83	77 ✓
10°00′	92°50′R	1.20	116 ✓

8°00′	89°15′R	1.55	152
7°45′	88°35′R	1.90	187
5°35′	87°15′R	2.33	231
5°30′	82°15′R	2.63	261
4°30′	76°00′R	2.96	295

200 ft. Contour.

5°30′	74°10′R	3.00	297
5°45′	77°10′R	2.68	265
7°00′	81°15′R	2.45	241
7°00′	85°15′R	2.10	206
10°15′	84°35′R	1.72	147
10°35′	85°37′R	1.43	138
13°00′	89°45′R	1.20	114
17°25′	84°00′R	0.90	82
22°10′	80°35′R	0.15	44

195 ft Contour

22°00′	73°35′	0.88	76
17°00′	83°45′R	1.14	104
14°00′	8x50R	1.43	135
10°30′	80°30′R	1.78	172
8°30′	81°00′R	2.20	215
7°30′	76°15′R	2.58	254
7°00′	73°10′R	2.83	279

△ Pt on 8th ft. triangeline at E.
E 3+10 right
→ E 0
The contours following are taken on right bank of marine

175 ft Contour

1°10′	86°45′L	4.87	482
1°20′	80°15′L	4.37	437

1°30′	73°30′L	4.05	405 ✓
1°30′	65°32′L	3.88	388 ✓
1°30′	59°00′L	4.00	400 ✓
1°30′	50°25′L	4.23	423 ✓
1°30′	44°35′L	4.13	413 ✓
1°30′	39°40′L	4.00	400 ✓
1°40′	35°10′L	3.64	364 ✓
1°50′	30°10′L	3.35	335 ✓
1°50′	24°30′L	3.00	300 ✓
2°30′	21°00′L	2.62	262 ✓
2°30′	11°32′L	2.62	262 ✓
2°30′	1°30′L	2.78	278 ✓
2°30′	5°15′R	2.73	273 ✓
2°30′	11°45′R	2.78	278 ✓
2°30′	18°45′R	3.07	307 ✓
2°00′	25°15′R	3.40	340 ✓
2°00′	31°55′R	3.33	333 ✓
2°00′	37°05′R	3.47	347 ✓

2°00′	42°30′R	3.52	352 ✓

320 ft. Contour

2°30′	42°45′R	3.42	342 ✓
3°00′	37°15′R	3.37	337 ✓
3°00′	32°35′R	3.18	318 ✓
3°00′	27°30′R	3.25	325 ✓
3°00′	20°00′R	3.00	300 ✓
3°30′	12°25′R	2.68	268 ✓
3°30′	3°20′R	2.64	264 ✓
3°30′	4°25′L	2.63	263 ✓
3°40′	8°05′L	2.60	260 ✓
3°40′	12°15′L	2.42	242 ✓
4°40′	20°30′L	2.14	214 ✓
4°50′	30°05′L	2.13	213 ✓
4°00′	39°35′L	2.53	253 ✓
3°00′	39°12′L	2.97	297 ✓
2°35′	36°00′	3.44	344

2°30′	39°45′L	3.68	368 ✓
2°30′	44°55′L	3.64	364 ✓
2°30′	48°30′L	3.92	392 ✓
2°30′	53°30′L	3.80	380 ✓
2°30′	59°25′L	3.67	367 ✓
2°30′	67°32′L	3.70	370 ✓
2°30′	73°55′L	3.62	362 ✓
2°30′	78°35′L	3.93	393 ✓
2°00′	82°20′L	4.20	420 ✓
2°00′	87°30′L	4.46	446 ✓
2°00′	90°35′L	4.70	470 ✓
1°45′	92°40′L	5.04	504 ✓

215 ft. Contour.

2°00′	93°50′L	4.88	488 ✓
2°35′	91°22′L	4.52	452 ✓
2°35′	86°55′L	4.34	434 ✓
3°00′	81°00′L	3.93	393 ✓

3°10′	77°55′L	3.74	374 ✓
3°15′	71°55′L	3.63	363 ✓
3°20′	64°08′L	3.57	357 ✓
3°20′	59°15′L	3.53	353 ✓
3°15′	53°10′L	3.64	364 ✓
3°15′	48°15′L	3.78	378 ✓
3°15′	44°12′L	3.76	376 ✓
3°15′	40°40′L	3.56	356 ✓
4°00′	36°15′L	3.11	311 ✓
4°20′	33°35′L	2.65	265 ✓
5°35′	37°00′L	3.17	317 ✓
5°45′	32°05′L	1.96	194 ✓
5°50′	22°12′L	2.00	198 ✓
5°45′	13°52′L	2.13	211 ✓
5°00′	8°00′L	2.48	246 ✓
5°00′	0°05′L	2.55	253 ✓
5°00′	18°20′R	2.52	250 ✓
4°30′	18°30′R	1.83	182 ✓

3°30′	24°25′R	3.10	310 ✓
3°30′	29°30′R	3.10	310 ✓
3°30′	34°15′R	3.12	312 ✓
3°30′	38°15′R	3.23	323 ✓
3°30′	43°07′R	3.30	330 ✓

210 ft. Contour.

1°15′	4°50′R	3.70	370 ✓
5°00′	36°20′R	2.10	308 ✓
5°00′	32°15′R	3.00	298 ✓
5°00′	26°18′R	3.04	302 ✓
5°00′	21°25′R	2.83	281 ✓
3°30′	16°15′R	2.62	260 ✓
2°30′	11°20′R	2.44	242 ✓
2°30′	1°50′R	2.47	245 ✓
3°30′	3°30′L	2.40	238 ✓
7°00′	10°30′L	2.13	210 ✓
7°00′	20°13′L	1.90	188 ✓
7°00′	32°25′L	1.89	186 ✓
7°00′	40°45′L	2.10	207 ✓
6°00′	39°25′L	2.52	250 ✓
4°45′	38°25′L	3.00	300 ✓
4°30′	41°45′L	3.45	345 ✓
4°00′	46°40′L	3.60	360 ✓
4°00′	52°25′L	3.53	353 ✓
4°00′	58°00′L	3.40	340 ✓
4°00′	63°45′L	3.40	340 ✓
4°00′	69°05′L	3.46	346 ✓
4°15′	75°45′L	3.54	354 ✓
4°00′	79°45′L	3.67	367 ✓
4°00′	82°50′L	3.88	388 ✓
3°30′	86°45′L	4.15	415 ✓
3°30′	91°15′L	4.30	430 ✓
3°30′	94°15′L	4.43	443 ✓
3°00′	96°55′L	4.63	463 ✓

A Brown 8th Lt. range line at E.
→ E produced easterly
The contours following are
taken on the left of range line
which preceding contours
were taken.

225 ft. Contour

0°30'	84°05'L.	2.40	240 ✓
0°20'	76°42'L.	2.77	277 ✓
0°20'	72°00'L.	2.90	290 ✓
0°20'	69°45'L.	3.20	320 ✓
0°30'	66°45'L.	2.87	287 ✓
0°30'	66°45'L.	2.33	233 ✓
0°30'	56°45'L.	2.13	213 ✓
0°30'	45°35'L.	2.10	210 ✓
0°30'	36°00'L.	2.95	295 ✓ 205
0°30'	24°50'L.	2.04	204 ✓
0°30'	15°10'L.	2.13	213 ✓
0°30'	7°45'L.	2.31	231 ✓
0°30'	2°05'L.	2.52	252 ✓
0°15'	4°05'R.	2.73	273 ✓
0°15'	9°15'R.	2.95	295 ✓
0°20'	13°45'R.	3.30	330 ✓
0°20'	16°30'R.	3.77	377 ✓

220 ft. Contour.

1°05'	17°35'R.	3.93	393
1°15'	17°20'R.	3.57	357
1°20'	14°50'R.	3.17	317
1°30'	10°50'R.	2.87	287
1°40'	5°10'R.	2.63	263
1°35'	2°05'L.	2.38	238
1°30'	8°15'L.	2.18	218
1°30'	19°40'L.	1.96	196
1°30'	33°55'L.	1.96	196
1°30'	44°10'L.	1.98	198

2°30′	56°13′L.	2.02	202
2°30′	66°15′L.	2.16	216
2°30′	69°12′L.	2.40	240
2°10′	69°10′L.	2.80	280
2°15′	74°35′L.	2.65	265
2°10′	80°15′L.	2.43	243

215 ft. bontour.

3°00′	79°30′L.	2.30	230
2°50′	71°35′L.	2.59	259
3°30′	70°08′L.	2.20	220
3°30′	61°50′L.	1.97	197
3°30′	50°15′L.	1.90	190
3°30′	41°40′L.	1.88	188
3°40′	28°35′L.	1.86	186
3°30′	18°40′L.	1.88	188
3°30′	13°04′L.	2.00	200
3°30′	4°40′L.	2.23	223

3°15′	2°55′R.	2.48	248
2°45′	6°50′R.	2.60	260
2°30′	12°35′R.	2.88	288
2°25′	16°10′R.	3.16	316
2°30′	18°40′R.	3.47	347
2°00′	19°30′R.	3.78	378
2°00′	19°55′R.	4°00′	400

210 ft bontour

2°25′	22°15′R.	4.32	432
3°00′	23°07′R.	4.03	403
2°00′	22°00′R.	3.70	370
3°10′	20°10′R.	3.37	337
3°20′	18°20′R.	3.16	316
4°00′	14°55′R.	2.87	287
4°00′	11°25′R.	2.67	247
4°15′	5°20′R.	2.46	246
5°00′	0°20′L.	2.26	224

5°10′	6°45′L.	2.04	202
6°00′	14°15′L.	1.85	183
6°10′	20°15′L.	1.77	175
6°00′	34°50′L.	1.80	178
5°55′	47°20′L.	1.79	177
6°00′	59°07′L.	1.83	181
6°00′	67°45′L.	1.93	191
4°40′	73°15′L.	2.15	215
4°30′	73°40′L.	2.33	233

2/24/03 Alverson, McLaren, Anguineda, Luce — 3:30 P.M.

△ Pt. on Pound Canyon base line at Sta. 55

→ Sta. 48

235 ft. Contour

13°00'	55°25'R	4.12	391	✓
13°40'	59°30'R	3.92	370	✓
14°45'	67°55'R	3.66	342	✓
15°30'	74°20'R	3.42	318	✓
15°35'	83°30'R	3.35	311	✓

230 ft. Contour

15°20'	81°07'R	3.22	300	✓
15°30'	78°20'R	3.25	302	✓
14°40'	69°25'R	3.38	316	✓
14°00'	63°55'R	3.60	339	✓

13°20'	58°00'R	3.80	360	✓
13°00'	53°25'R	3.96	376	✓
12°10'	49°20'R	4.10	392	✓

140 ft. Contour

0°30'	2°45'R	6.30	630	✓
0°30'	5°00'R	5.83	583	✓
0°30'	5°30'R	5.16	516	✓
0°30'	7°10'R	4.60	460	✓
0°30'	7°47'R	4.08	408	✓
0°30'	7°35'R	3.64	364	✓
0°30'	11°00'R	3.08	308	✓
0°30'	8°34'R	2.31	231	✓

145 ft. Contour

0°30'	169°30'R	0.61	61	✓
0°30'	99°40'R	0.40	40	✓
0°30'	69°04'R	0.70	70	✓

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Vertical	Horiz	Rod.		
0°30′	14°15′R	1.04	104	✓
0°30′	38°20′R	1.37	137	✓
0°15′	27°00′R	1.74	174	✓
0°30′	21°50′R	2.16	216	✓
0°30′	18°07′R	2.53	253	✓
0°30′	16°33′R	2.90	290	✓
0°20′	15°00′R	3.27	327	✓
0°20′	13°30′R	3.50	350	✓
0°20′	11°48′R	3.88	388	✓
0°10′	10°03′R	4.31	431	✓
0°10′	9°00′R	4.77	477	✓
0°00′	7°45′R	5.15	515	✓
0°00′	7°20′R	5.30	530	✓
0°00′	9°00′R	5.48	548	✓
0°00′	7°20′R	5.76	576	✓
0°00′	6°55′R	5.78	578	✓

15 ft. Contour

0°30′	8°30′R	5.63	563	✓
0°20′	8°35′R	5.38	538	✓
0°30′	10°10′R	4.94	494	✓
0°45′	11°50′R	4.35	435	✓
0°45′	13°46′R	3.90	390	✓
0°45′	16°30′R	3.47	347	✓
0°45′	19°25′R	2.93	293	✓
0°45′	24°00′R	2.47	247	✓
0°45′	33°06′R	1.92	192	✓
1°00′	45°15′R	1.44	144	✓
1°05′	59°08′R	1.07	107	✓
1°15′	93°40′R	0.88	88	✓
1°30′	176°30′R	1.08	108	✓
1°30′	149°10′R	1.14	114	✓

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2/25/08 Alverson
McLaren
Argensola
Lipee

~155 ft. Contour

2°50'	132°55'R	1.54	154	✓
3°50'	120°00'R	1.23	123	✓
3°30'	97°20'R	1.05	105	✓
3°45'	67°50'R	1.17	117	✓
3°40'	51°36'R	1.50	150	✓
2°20'	40°15'R	1.85	185	✓
2°00'	31°42'R	2.28	228	✓
2°00'	24°42'R	2.77	277	✓
1°30'	20°35'R	3.22	322	✓
1°30'	17°05'R	3.66	366	✓
1°15'	15°05'R	3.97	397	✓
1°15'	13°04'R	4.48	448	✓
1°10'	11°30'R	4.97	497	✓
1°15'	10°36'R	5.38	538	✓

1°00' 9°55'R 5.68

160 ft Contour

1°40'	11°55'R	5.66	566	✓
1°40'	12°18'R	5.28	528	✓
2°00'	13°05'R	4.98	498	✓
2°00'	14°30'R	4.43	443	✓
2°15'	16°40'R	4.00	400	✓
2°10'	19°30'R	3.58	358	✓
2°25'	23°30'R	3.14	314	✓
2°40'	27°05'R	2.80	280	✓
3°00'	34°08'R	2.42	242	✓
3°30'	41°52'R	2.04	204	✓
4°20'	52°50'R	1.69	169	✓
5°20'	66°10'R	1.38	137	✓
6°00'	83°45'R	1.20	119	✓
6°00'	99°38'R	1.22	121	✓
5°20'	117°00'R	1.39	138	✓

Vertical Hoop Rod.

4°40′	177°30′R.	1.76	176	✓

165 ft. Contour

5°30′	124°45′R.	1.90	188	✓
7°00′	118°50′R.	1.61	159	✓
7°30′	102°45′R.	1.35	133	✓
7°30′	88°50′R.	1.31	129	✓
7°00′	73°15′R.	1.41	139	✓
6°10′	61°52′R.	1.66	164	✓
5°30′	51°40′R.	1.91	189	✓
4°50′	42°22′R.	2.14	214	✓
4°10′	36°48′R.	2.49	249	✓
3°30′	28°50′R.	2.98	298	✓
3°15′	24°08′R.	3.33	333	✓
3°00′	19°55′R.	3.73	373	✓
2°45′	17°45′R.	4.08	408	✓
2°45′	16°45′R.	4.32	432	✓
2°30′	15°00′R.	4.80	480	✓
2°15′	14°00′R.	5.14	514	✓

170 ft. Contour

3°00′	15°40′R.	5.38	528	✓
3°00′	16°15′R.	4.87	487	✓
3°15′	17°42′R.	4.45	445	✓
3°30′	19°10′R.	4.07	407	✓
3°30′	21°05′R.	3.75	357	✓
4°00′	24°40′R.	3.48	348	✓
4°00′	29°08′R.	3.23	323	✓
4°30′	32°34′R.	2.90	290	✓
5°00′	37°00′R.	2.63	261	✓
5°30′	42°45′R.	2.38	236	✓
6°10′	49°20′R.	2.15	213	✓
7°00′	57°40′R.	1.96	193	✓
8°00′	68°10′R.	1.68	165	✓
8°40′	77°45′R.	1.50	147	✓

9°15'	100° 40'R	1.49	143	✓
8°00'	117°52'R	1.77	174	✓
7°00'	122°45'R	2.02	199	✓
175 ft. Contour				
8°00'	120°10'R	2.13	210	✓
9°00'	116°10'R	1.94	189	✓
9°30'	109°20'R	1.73	168	✓
10°00'	99°55'R	1.60	156	✓
10°15'	88°35'R	1.53	148	✓
9°30'	74°20'R	1.73	168	✓
8°30'	63°20'R	1.93	189	✓
7°30'	56°22'R	2.17	213	✓
7°00'	47°08'R	2.38	235	✓
6°00'	38°30'R	2.77	274	✓
5°30'	33°30'R	3.05	302	✓
4°50'	27°35'R	3.36	338	✓
4°30'	23°52'R	3.68	368	✓

4°10'	21°25'R	3.99	398	✓
3°50'	19°00'R	4.50	450	✓
4°00'	15°00'R	4.90	490	✓
180 ft. Contour				
4°15'	19°22'R	4.57	487	✓
4°45'	20°55'R	4.42	442	✓
5°15'	22°36'R	4.12	408	✓
5°10'	24°40'R	3.96	373	✓
5°45'	29°35'R	3.46	343	✓
6°00'	33°50'R	3.21	318	✓
6°30'	38°45'R	2.91	287	✓
7°30'	44°20'R	2.63	259	✓
8°00'	50°10'R	2.43	238	✓
8°30'	54°00'R	2.37	232	✓
9°25'	63°07'R	2.07	202	✓
10°10'	73°05'R	1.91	185	✓
11°10'	82°50'R	1.74	168	✓

	11°30'	94°22'R 1.69	162	✓
	11°15'	106°45'R 1.83	176	✓
	9°00'	117°04'R 2.23	218	✓
2/26/03	Dickson McLaren Aguinaldo Libee	11 AM		

185 ft. Contour.

5°30'	20°20'R	4.73	469	✓
5°45'	22°20'R	4.43	439	✓
6°20'	24°50'R	3.97	392	✓
6°30'	26°45'R	3.80	375	✓
6°30'	31°55'R	3.47	343	✓
7°00'	35°45'R	3.25	320	✓
7°40'	41°15'R	2.93	288	✓
8°50'	48°10'R	2.58	252	✓
9°20'	54°08'R	2.43	237	✓
10°00'	64°20'R	2.24	217	✓

11°15'	75°45'R	2.02	194	✓
12°30'	90°00'R	1.88	179	✓
12°40'	99°10'R	1.83	174	✓
11°30'	107°35'R	2.00	192	✓
10°00'	114°10'R	2.34	227	✓

190 ft. Contour.

12°00'	108°30'R	2.40	230	✓
12°00'	105°30'R	2.12	202	✓
12°40'	94°35'R	2.02	192	✓
12°20'	82°00'R	2.07	198	✓
11°00'	67°45'R	2.37	228	✓
10°15'	60°30'R	2.52	244	✓
10°00'	58°30'R	2.60	252	✓
9°15'	47°30'R	2.78	270	✓
8°30'	42°45'R	3.00	293	✓
7°50'	37°08'R	3.32	326	✓
7°00'	31°35'R	3.70	365	✓

Vertical Norizg. Rod

6°40′	27°30′R	3.92	387	✓
6°30′	25°00′R	4.23	418	✓
5°45′	22°55′R	4.60	455	✓

195 ft. Contour.

6°45′	25°00′R	4.50	444	✓
6°50′	27°00′R	4.17	411	✓
7°30′	31°00′R	3.86	379	✓
8°00′	35°55′R	3.62	355	✓
8°45′	41°20′R	3.27	319	✓
9°30′	47°00′R	3.03	295	✓
10°10′	53°08′R	2.83	274	✓
11°00′	60°37′R	2.69	259	✓
11°30′	66°32′R	2.52	242	✓
12°00′	74°30′R	2.37	227	✓
13°00′	85°20′R	2.20	209	✓
13°00′	96°40′R	2.21	210	✓

12°45′	104°30′R	2.38	226	✓

200 ft. Contour.

13°15′	99°40′R	2.58	245	✓
13°30′	93°40′R	2.38	225	✓
13°30′	86°50′R	2.39	226	✓
13°00′	76°30′R	2.49	236	✓
12°00′	67°15′R	2.62	251	✓
11°20′	61°55′R	2.82	271	✓
10°40′	54°20′R	3.00	290	✓
10°00′	47°50′R	3.22	312	✓
9°15′	41°40′R	3.43	334	✓
8°45′	37°40′R	3.71	362	✓
8°00′	31°36′R	4.04	396	✓
12°45′	27°45′R	4.38	417	✓

205 ft. Contour.

8°30′	30°42′R	4.25	416	✓

9°00'	35°40'R	3.93	383	✓
9°30'	41°42'R	3.63	353	✓
10°15'	47°00'R	3.40	329	✓
11°00'	52°00'R	3.21	309	✓
12°00'	57°30'R	3.00	287	✓
12°00'	64°20'R	2.91	278	✓
13°15'	73°50'R	2.67	253	✓
13°45'	81°40'R	2.55	241	✓
13°50'	89°45'R	2.53	239	✓
13°15'	95°55'R	2.67	253	✓

210 ft. Contour.

13°45'	91°08'R	2.90	274	✓
14°20'	86°45'R	2.71	254	✓
14°00'	78°30'R	2.73	257	✓
13°30'	70°25'R	2.88	272	✓
12°30'	66°07'R	3.04	290	✓
12°15'	59°45'R	3.12	298	✓

11°30'	53°55'R	3.24	311	✓
11°00'	48°15'R	3.48	335	✓
10°00'	42°30'R	3.80	369	✓
9°30'	38°45'R	3.97	386	✓
9°00'	33°52'R	4.23	413	✓

215 ft. Contour.

9°40'	37°40'R	4.20	408	✓
10°10'	40°40'R	4.02	390	✓
11°00'	45°40'R	3.72	359	✓
11°30'	51°12'R	3.51	327	✓
12°30'	57°50'R	3.28	313	✓
13°00'	63°12'R	3.20	304	✓
13°00'	62°20'R	3.20	304	✓
13°45'	69°50'R	3.04	290	✓
14°20'	75°20'R	2.87	269	✓
14°30'	82°00'R	2.83	265	✓
14°00'	92°30'R	3.04	286	✓

220 ft Contour.

14°00'	91°00'R.	3.23	304	✓
14°55'	85°30'R.	3.00	280	✓
15°00'	77°20'R.	3.00	280	✓
14°25	71°25'R.	3.14	295	✓
13°45'	68°20'R.	3.27	309	✓
13°40'	65°08'R.	3.27	309	✓
13°00'	59°35'R.	3.47	329	✓
12°15'	51°45'R.	3.67	351	✓
11°30'	46°30'R.	3.88	373	✓
10°50'	41°45'R.	4.16	401	✓

225 ft. Contour

11°30'	44°30'R.	4.17	400	✓
12°00'	49°20'R.	3.96	379	✓
12°45'	54°30'R.	3.74	356	✓
13°30'	59°45'R.	3.55	336	✓
14°00'	66°00'R.	3.33	314	✓
12°30'	69°25'R.	3.34	313	✓
14°50'	71°40'R.	3.27	306	✓
15°00'	77°30'R.	3.15	294	✓
15°15'	83°05'R.	3.17	295	✓
14°30'	89°05'R.	3.30	309	✓

On Round Bayou boundary line
△ P.T. 210 ft from Sta. 55 at angle
49°00' L.
→ Line produced

150 ft Contour.

5°00'	139°25'R.	0.93	93	✓
3°45'	120°55'R.	1.20	120	✓
3°00'	109°00'R.	1.71	171	✓
2°30'	101°10'R.	1.72	172	✓

155 ft. Contour

8°35'	97°30'R.	1.72	172	✓
8°40'	101°15'R.	1.50	150	✓

270 ft Contour.

14°00′	91°00′R.	3.23	304	✓
14°55′	85°30′R.	3.00	280	✓
15°00′	77°20′R.	3.00	280	✓
14°25′	71°25′R.	3.14	295	✓
13°45′	68°20′R.	3.27	309	✓
13°40′	65°08′R.	3.27	309	✓
13°00′	59°35′R.	3.49	329	✓
12°15′	51°45′R.	3.67	351	✓
11°30′	46°30′R.	3.88	373	✓
10°50′	41°45′R.	4.16	401	✓

285 ft. Contour

11°30′	44°30′R.	4.17	400	✓
12°00′	49°20′R.	3.96	379	✓
12°45′	54°30′R.	3.74	356	✓
13°30′	59°45′R.	3.55	336	✓
14°00′	66°00′R.	3.33	314	✓
14°30′	69°30′R.	3.34	313	✓
14°50′	71°40′R.	3.27	306	✓
15°00′	77°30′R.	3.15	294	✓
15°15′	83°05′R.	3.17	295	✓
14°30′	89°05′R.	3.30	309	✓

On Round Canyon base line
A Pt. 210 ft from Sta. 55 at angle
47°00′ L.
→ Line produced

150 ft Contour.

5°00′	139°20′R.	0.93	93	✓
3°45′	120°55′R.	1.20	120	✓
3°00′	109°00′R.	1.91	171	✓
2°30′	101°10′R.	1.72	172	✓

155 ft. Contour

0°35′	99°30′R.	1.72	172	✓
0°46′	101°15′R.	1.50	150	✓

0°40′	103°40′R.	1.17	117	✓
0°50′	106°30′R.	0.83	83	✓
1°45′	105°15′R.	0.53	53	✓
1°30′	79°55′R.	0.20	20	✓
1°40′	151°00′R.	0.40	40	✓
160 ft. Contour.				
1°15′	148°20′L.	0.17	17	✓
1°15′	50°00′L.	0.10	10	✓
1°30′	28°00′L.	0.29	29	✓
1°45′	21°15′L.	0.51	51	✓
0°15′	30°40′L.	0.88	88	✓
0°15′	11°10′L.	0.63	63	✓
0°00′	16°50′R.	0.43	43	✓
0°00′	67°10′R.	0.50	50	✓
0°00′	94°45′R.	0.80	80	✓
0°00′	97°30′R.	1.13	113	✓
0°30′	94°00′R.	1.42	142	✓

0°30′	93°26′R.	1.66	166	✓
165 ft. Contour.				✓
1°30′	87°30′R.	1.60	160	✓
1°40′	86°45′R.	1.40	140	✓
2°00′	83°50′R.	1.14	114	✓
2°00′	72°43′R.	0.94	94	✓
2°00′	56°00′R.	0.93	93	✓
1°40′	43°45′R.	0.94	94	✓
2°00′	27°35′R.	0.73	73	✓
2°00′	2°40′R.	0.72	72	✓
1°50′	17°30′L.	0.88	88	✓
2°00′	29°10′L.	1.17	117	✓
2°00′	33°12′L.	1.57	157	✓
1°45′	37°00′L.	1.31	131	✓
2°30′	38°40′L.	1.06	106	✓
2°30′	37°45′L.	0.76	76	✓
1°10′	40°30′L.	0.50	50	✓

104

4°00'	80°50' L	0.24	24	✓

170 ft. Contour

12°00'	83°40' L	0.38	36	✓
11°50'	58°20' L	0.50	48	✓
6°30'	47°20' L	0.80	79	✓
5°00'	44°30' L	1.18	117	✓
3°00'	39°30' L	1.52	152	✓
3°00'	37°40' L	1.81	181	✓
(junction of ravines →) 2°30'	36°07' L	2.21	221	✓
2°20'	33°30' L	2.07	207	✓
3°15'	29°05' L	1.68	168	✓
4°15'	20°50' L	1.20	120	✓
5°00'	8°45' L	1.00	99	✓
6°00'	12°15' R	0.88	87	✓
5°00'	28°05' R	0.93	92	✓
4°00'	36°45' R	1.28	128	✓
3°30'	42°05' R	1.48	148	✓

3°30'	54°00' R	1.32	132	✓
4°00'	63°35' R	1.10	110	✓
4°00'	73°40' R	1.13	113	✓
4°00'	81°00' R	1.31	131	✓
3°00'	83°10' R	1.58	158	✓

△ Pt. on 8th St. range line 200 ft. N. of G.O.

→ G.O.

175 ft. Contour

3°45'	98°35' L	3.04	304	✓
4°00'	98°20' L	2.66	266	✓
5°00'	97°30' L	2.20	218	✓
6°00'	98°45' L	1.86	184	✓
7°40'	98°45' L	1.46	143	✓
11°30'	95°00' L	0.96	92	✓
11°45'	107°15' L	1.00	96	✓

10.6

180 ft. Contour

12°10′	105°50′L.	0.83	79	✓
11°40′	88°10′L.	0.74	71	✓
11°45′	72°30′L.	0.93	70	✓
9°30′	84°45′L.	0.94	91	✓
7°20′	91°30′L.	1.20	118	✓
5°35′	94°30′L.	1.57	156	✓
4°45′	94°45′L.	2.04	204	✓
4°30′	94°25′L.	2.39	238	✓
3°40′	95°00′L.	2.60	260	✓
3°00′	96°15′L.	2.83	283	✓
3°00′	96°05′L.	3.04	304	✓

185 ft. Contour.

3°00′	93°48′L.	2.93	293	✓
2°30′	92°40′L.	2.64	264	✓
2°30′	91°20′L.	2.47	247	✓
2°30′	91°18′L.	2.18	218	✓
3°00′	90°00′L.	1.87	187	✓
3°15′	89°00′L.	1.64	164	✓
3°00′	87°10′L.	1.37	137	✓
4°50′	84°04′L.	1.13	113	✓
5°00′	70°45′L.	0.87	87	✓
5°20′	57°55′L.	0.70	70	✓
8°15′	43°30′L.	0.61	60	✓
8°00′	70°30′L.	0.57	56	✓
7°30′	90°50′L.	0.61	60	✓
7°25′	104°55′L.	0.60	59	✓

190 ft. Contour.

7°30′	103°35′L.	0.35	35	✓
6°50′	59°30′L.	0.32	32	✓
6°30′	32°30′L.	0.48	48	✓
4°35′	28°40′L.	0.67	67	✓
4°30′	55°00′L.	0.83	83	✓
3°00′	73°30′L.	1.08	108	✓

3°00'	80°00'L.	1.35	135	✓
2°30'	83°30'L.	1.68	168	✓
2°15'	86°55'L.	2.00	200	✓
2°15'	89°35'L.	2.30	230	✓
2°15'	88°55'L.	2.57	257	✓
2°00'	90°30'L.	2.87	287	✓

195 ft. Contour

0°45'	87°00'L.	2.83	283	✓
0°45'	85°30'L.	2.47	247	✓
0°30'	84°05'L.	2.14	214	✓
0°40'	81°40'L.	1.88	188	✓
0°15'	78°00'L.	1.59	159	✓
0°15'	72°35'L.	1.36	136	✓
0°15'	68°00'L.	1.18	118	✓
0°15'	58°45'L.	1.04	104	✓
0°30'	46°00'L.	0.91	91	✓
0°30'	34°40'L.	0.86	86	✓

0°30'	6°00'L.	0.81	81	✓
0°30'	0°30'L.	0.56	56	✓
0°30'	5°30'L.	0.28	28	✓
0°30'	33°10'L.	0.11	11	✓
0°30'	136°35'L.	0.09	9	✓

200 ft Contour

0°00'	10°00'R.	0.05	5	✓
0°00'	29°30'R.	0.23	23	✓
0°15'	17°55'R.	0.60	60	✓
0°15'	11°00'R.	0.94	94	✓
0°15'	5°45'R.	1.08	108	✓
0°00'	10°00'L.	0.99	99	✓
0°30'	29°50'L.	1.03	103	✓
0°30'	45°45'L.	1.08	108	✓
0°30'	63°45'L.	1.30	130	✓
0°30'	79°35'L.	1.58	158	✓
0°30'	77°30'L.	1.88	188	✓

0°15'	79°45'L.	2.13	213	✓
0°15'	81°30'L.	2.58	258	✓
0°15'	82°20'L.	2.77	277	✓

205 ft. Contour

1°15'	79°25'L.	2.78	278	✓
1°15'	77°55'L.	2.43	243	✓
1°20'	75°35'L.	2.10	210	✓
1°10'	72°25'L.	1.77	177	✓
1°30'	63°45'L.	1.50	150	✓
1°35'	50°00'L.	1.26	126	✓
1°35'	39°30'L.	1.17	117	✓
1°15'	14°15'L.	1.13	113	✓
2°00'	1°45'R.	1.27	127	✓
2°00'	13°30'R.	1.33	133	✓
2°00'	22°15'R.	1.07	107	✓
3°00'	32°30'R.	0.86	86	✓
3°30'	38°00'R.	0.50	50	✓

7°00'	62°12'R.	0.26	26	✓
7°00'	86°15'R.	0.21	21	✓

2/27/03 Alverson / McLaren / Aguinaldo / Eisel

210 ft. Contour

1°25'	108°40'R.	0.38	36	✓
1°30'	92°25'R.	0.38	36	✓
7°00'	46°55'R.	0.66	65	✓
4°45'	39°15'R.	1.04	104	✓
3°50'	27°30'R.	1.28	128	✓
3°10'	17°52'R.	1.50	150	✓
3°15'	6°40'R.	1.50	150	✓
3°30'	5°00'L.	1.36	136	✓
3°45'	12°13'L.	1.24	124	✓
3°45'	32°42'L.	1.30	130	✓
3°30'	49°38'L.	1.37	137	✓

Vertical Horiz Rod

3°00′	58°52′L.	1.54	154	✓
3°00′	68°10′L.	1.82	182	✓
2°15′	73°50′L.	2.26	226	✓
2°15′	74°52′L.	2.62	262	✓
2°00′	76°00′L.	2.77	277	✓

215 ft. Contour.

3°30′	72°10′L.	2.67	267	✓
3°30′	70°20′L.	2.32	232	✓
4°30′	67°40′L.	2.07	207	✓
4°15′	63°30′L.	1.85	186	✓
4°45′	56°55′L.	1.63	163	✓
5°15′	48°15′L.	1.52	151	✓
5°30′	35°35′L.	1.42	141	✓
5°30′	20°55′L.	1.38	137	✓
5°30′	9°52′L.	1.42	141	✓
5°00′	0°20′R.	1.58	157	✓
4°30′	9°30′R.	1.73	173	✓
4°30′	15°50′R.	1.70	170	✓
4°30′	22°55′R.	1.69	169	✓
5°00′	30°50′R.	1.50	149	✓
6°30′	40°15′R.	1.22	120	✓
9°25′	51°30′R.	1.09	106	✓
9°15′	55°12′R.	0.81	79	✓
13°00′	65°35′R.	0.60	57	✓
14°30′	94°40′R.	0.45	42	✓
14°30′	105°37′R.	0.54	51	✓

220 ft. Contour.

16°00′	104°45′R.	0.73	69	✓
16°30′	90°45′R.	0.62	57	✓
14°10′	68°20′R.	0.81	76	✓
12°30′	63°30′R.	1.08	103	✓
13°00′	60°10′R.	1.18	112	✓
8°35′	49°05′R.	1.23	120	✓

7°10′	41°10′R	1.49	147	✓
6°20′	35°35′R	1.70	168	✓
5°45′	29°20′R	1.88	186	✓
5°40′	19°05′R	1.93	191	✓
5°30′	10°15′R	1.93	191	✓
6°00′	7°42′R	1.87	185	✓
6°45′	5°15′L	1.70	168	✓
7°15′	15°00′L	1.50	148	✓
7°15′	29°40′L	1.54	152	✓
7°10′	42°33′L	1.57	155	✓
6°45′	53°00′L	1.74	172	✓
5°25′	62°15′L	2.03	201	✓
5°00′	67°12′L	2.31	229	✓
4°45′	68°40′L	2.58	257	✓
825 ft. Contour				
5°15′	66°45′L	2.57	255	✓
6°00′	64°10′L	2.30	228	✓

7°00′	57°35′L	2.00	197	✓
8°00′	44°35′L	1.71	168	✓
8°20′	34°30′L	1.64	161	✓
8°30′	21°25′L	1.62	158	✓
8°10′	12°18′L	1.69	166	✓
7°30′	5°30′L	1.80	177	✓
7°00′	0°00′	1.96	193	✓
6°35′	5°50′R	2.06	203	✓
6°45′	13°22′R	2.05	202	✓
6°45′	20°45′R	2.04	201	✓
6°50′	29°35′R	2.00	197	✓
7°20′	39°50′R	1.88	185	✓
9°15′	43°35′R	1.69	164	✓
9°45′	49°10′R	1.42	138	✓
11°45′	58°05′R	1.32	127	✓
13°30′	66°00′R	1.30	123	✓
14°30′	71°55′R	1.05	98	✓
17°45′	86°45′R	0.80	73	✓

16°30'	100°50'R	0.87	80	✓
230 ft. Contour				
18°10'	99°05'R	1.05	95	
18°10'	92°48'R	0.97	88	
17°30'	78°25'R	1.11	101	
15°00'	69°30'R	1.42	132	
12°00'	58°08'R	1.73	137	
11°10'	51°30'R	1.50	144	
9°15'	46°00'R	1.81	176	
8°15'	38°20'R	2.04	200	
7°45'	29°15'R	2.17	213	
7°45'	20°50'R	2.17	213	
7°40'	11°30'R	2.18	214	
7°40'	3°15'R	2.20	216	
8°20'	2°10'L	2.00	196	
9°05'	8°45'L	1.86	181	✓
10°10'	18°10'L	1.73	168	✓

Taken twice

9°40'	28°18'L	1.73	168	✓
9°30'	40°25'L	1.77	172	✓
8°30'	52°35'L	2.00	196	✓
7°30'	59°15'L	2.27	223	✓
7°00'	63°20'L	2.58	254	✓
6°30'	64°10'L	2.81	277	✓
235 ft. Contour				
7°30'	62°05'L	2.70	265	✓
8°20'	59°12'L	2.47	242	✓
9°00'	55°40'L	2.24	219	✓
9°30'	50°35'L	2.08	202	✓
10°30'	43°45'L	1.90	184	✓
11°00'	35°30'L	1.84	177	✓
11°00'	25°45'L	1.80	173	✓
11°10'	18°53'L	1.80	173	✓
10°25'	11°25'L	1.91	185	✓
10°00'	4°35'L	2.05	199	✓

8°50′	1°35′ L	2.26	221
8°30′	4°52′ R	2.33	228
8°30′	14°40′ R	2.28	223
8°30′	22°40′ R	2.33	228
8°30′	29°00′ R	2.30	225
8°50′	35°00′ R	2.20	215
9°30′	44°30′ R	2.06	200
10°45′	46°30′ R	1.90	183
11°30′	51°30′ R	1.75	168
12°40′	55°45′ R	1.57	149
14°35′	68°15′ R	1.57	147
15°20′	74°22′ R	1.50	140
17°10′	82°07′ R	1.20	110
18°25′	90°00′ R	1.11	100
18°05′	91°38′ R	1.20	109

Taken twice

Δ R. on 8th St. range line ct. H. 1+70 L.

→ Ho

735 ft. Contour.

3°15′	82°40′ R	3.87	387 ✓
3°15′	87°50′ R	3.75	375 ✓
3°15′	91°10′ R	3.60	360 ✓
3°30′	92°38′ R	3.30	330 ✓
3°30′	92°30′ R	3.00	300 ✓
4°00′	89°07′ R	2.65	265 ✓
4°00′	86°22′ R	2.40	240
5°00′	91°00′ R	2.12	210
5°00′	90°55′ R	1.95	193
6°20′	85°30′ R	1.72	170
6°20′	81°25′ R	1.56	154
8°55′	83°38′ R	1.20	117
11°35′	73°15′ R	0.88	84
16°00′	62°55′ R	0.68	58
16°00′	33°50′ R	0.64	59

Taken twice

Turns	11°30′	12°50′R	0.89	84	
	10°00′	32°00′R	1.14	111	
	7°30′	35°15′R	1.47	145	
	6°00′	37°45′R	1.83	181	
	5°30′	38°20′R	2.15	213	
	5°00′	37°45′R	2.43	241	
	230 ft. Contour.				
Turns	5°20′	39°40′R	2.55	253	✓
	6°00′	41°05′R	2.28	226	
	6°30′	41°00′R	2.05	202	
	7°00′	40°50′R	1.77	174	
	9°00′	39°52′R	1.47	143	
	11°15′	39°00′R	1.18	114	
	13°30′	28°50′R	0.98	93	
	15°00′	23°20′R	0.88	82	
	17°00′	40°10′R	0.78	71	
	17°00′	57°00′R	0.80	73	

Turns	13°30′	70°50′R	1.04	98	
	11°00′	78°15′R	1.28	123	
	8°30′	78°18′R	1.60	157	
	7°00′	86°55′R	1.97	194	
	6°00′	84°48′R	2.28	226	
	6°00′	84°25′R	2.50	248	
	4°00′	90°25′R	2.94	294	✓
	4°00′	91°00′R	3.30	330	✓
	4°00′	89°35′R	3.54	354	✓
	4°00′	86°30′R	3.70	370	✓
	3°30′	82°25′R	3.80	380	✓
	225 ft. Contour				
	4°00′	78°25′R	3.85	385	✓
	4°25′	83°00′R	3.67	367	✓
	5°00′	86°52′R	3.53	350	✓
	4°40′	89°00′R	3.27	327	✓
	4°45′	88°50′R	3.18	317	✓

5°40′	86°15′R.	2.82	279	✓
6°00′	81°30′R.	2.56	253	✓
6°35′	80°30′R.	2.40	237	
8°35′	83°40′R.	2.10	205	
9°00′	80°50′R.	1.84	179	
10°20′	74°25′R.	1.63	158	
13°00′	72°45′R.	1.32	125	
16°30′	61°10′R.	0.98	90	
18°20′	41°18′R.	0.90	81	
15°45′	38°00′R.	0.93	86	
13°30′	47°30′R.	1.14	108	
11°40′	45°38′R.	1.35	129	
10°20′	44°00′R.	1.64	159	
8°30′	44°35′R.	1.95	191	
7°15′	43°30′R.	2.27	223	
6°30′	43°10′R.	2.53	253	

Turn

220 ft Contour.

7°30′	46°55′R.	2.60	256	
9°00′	47°20′R.	2.18	213	
9°30′	48°25′R.	1.90	185	
11°00′	48°12′R.	1.65	159	
13°35′	49°52′R.	1.48	141	
16°20′	48°30′R.	1.18	109	
18°15′	44°52′R.	1.02	92	
16°45′	59°50′R.	1.14	105	
15°00′	67°35′R.	1.34	125	
11°10′	72°25′R.	1.75	168	
9°00′	80°00′R.	2.11	206	
7°45′	78°10′R.	2.48	243	
6°45′	82°00′R.	2.80	276	✓
5°30′	86°07′R.	3.12	309	✓
5°30′	84°30′R.	3.47	344	✓
5°30′	77°25′R.	3.72	369	✓
5°30′	75°30′R.	3.88	385	✓

215 ft Contour

6°00′	73°45′R	3.84	380	✓
6°00′	78°00′R	3.58	354	✓
6°30′	82°12′R	3.40	336	✓
6°45′	83°25′R	3.15	311	✓
7°30′	79°35′R	2.90	285	✓
8°15′	76°35′R	2.67	262	✓
9°30′	75°50′R	2.40	234	✓
10°30′	77°12′R	2.14	207	✓
12°15′	69°48′R	1.82	174	✓
14°30′	65°22′R	1.58	148	✓
17°15′	60°06′R	1.35	123	✓
18°00′	54°30′R	1.20	113	✓
15°00′	54°15′R	1.53	143	✓
12°10′	52°30′R	1.88	180	✓
10°45′	51°00′R	2.22	214	✓
9°30′	49°12′R	2.49	241	✓
8°30′	47°55′R	2.72	266	✓

210 ft Contour

8°30′	50°35′R	2.80	274	✓
10°30′	52°52′R	2.55	247	✓
11°35′	55°10′R	2.23	214	✓
13°00′	57°00′R	1.90	180	✓
13°00′	58°22′R	1.50	140	✓
15°00′	65°42′R	1.78	166	✓
12°30′	71°05′R	2.10	200	✓
11°45′	74°07′R	2.20	211	✓
10°00′	73°05′R	2.48	240	✓
9°00′	74°40′R	2.78	271	✓
9°00′	80°30′R	3.18	310	✓
7°30′	78°55′R	3.40	334	✓
7°00′	73°15′R	3.64	369	✓
6°20′	71°20′R	3.95	390	✓

1.76

△ Pt. on 8th triangle line 260 ft. N. of Co → Ho.

205 ft. Contour.

15°45′	13°30′L.	0.47	44	✓
9°30′	4°35′L.	0.71	69	✓
6°30′	7°20′L.	1.03	102	✓
6°00′	5°05′L.	1.11	110	✓
6°00′	39°55′L.	1.36	135	✓
4°00′	32°35′L.	1.76	176	✓
4°00′	25°50′L.	2.02	202	✓
4°30′	22°45′L.	1.74	174	✓
5°50′	14°42′L.	1.43	142	✓
6°30′	9°05′L.	1.14	113	✓
5°20′	14°00′R.	1.08	107	✓
6°15′	31°00′R.	1.18	117	✓
5°00′	36°45′R.	1.52	151	✓
4°35′	38°30′R.	1.79	1.79	✓
4°00′	45°45′R.	1.80	180	✓
4°00′	53°05′R.	1.78	178	✓
4°00′	56°50′R.	1.86	186	✓

200 ft. Contour.

3°00′	61°48′R.	1.66	166	✓
3°00′	53°05′R.	1.63	163	✓
3°30′	44°35′R.	1.64	164	✓
4°00′	40°00′R.	1.32	132	✓
4°30′	34°55′R.	1.09	109	✓
5°00′	13°00′R.	0.97	97	✓
5°00′	11°35′L.	1.14	113	✓
3°35′	21°42′L.	1.41	141	✓
3°00′	28°10′L.	1.68	168	✓
4°00′	36°35′L.	1.39	139	✓
4°30′	50°30′L.	1.03	103	✓
5°00′	62°18′L.	0.94	93	✓
6°00′	74°10′L.	0.86	85	✓

8°35′	82°40′L.	0.54	53	✓
13°50′	122°35′L.	0.31	29	✓
14°00′	163°35′L.	0.43	40	✓

195 ft. Contour.

5°30′	183°50′L.	0.38	38	✓
5°30′	143°30′L.	0.16	16	✓
5°30′	75°35′L.	0.29	29	✓
7°00′	60°40′L.	0.67	67	✓
7°20′	40°40′L.	0.98	98	✓
7°10′	31°00′L.	1.30	130	✓
7°20′	25°30′L.	1.07	107	✓
7°30′	1°00′L.	0.82	82	✓
7°30′	22°15′R.	0.83	83	✓
8°15′	41°30′R.	0.93	93	✓
8°00′	45°40′R.	1.27	127	✓
1°35′	49°22′R.	1.40	140	✓
1°50′	56°35′R.	1.32	132	✓
1°40′	66°10′R.	1.48	148	✓
1°40′	67°30′R.	1.57	157	✓

190 ft. Contour.

1°30′	139°10′R.	0.46	46	✓
1°30′	131°25′R.	0.20	20	✓
1°00′	37°55′L.	0.20	20	✓
1°00′	38°35′L.	0.56	56	✓
0°45′	33°25′L.	0.58	58	✓
0°45′	10°00′L.	0.49	49	
0°30′	41°25′R.	0.60	60	✓
0°30′	55°55′R.	0.86	86	✓
0°30′	58°35′R.	1.08	108	✓
0°30′	68°25′R.	1.21	121	✓
0°30′	71°50′R.	1.47	147	✓

185 ft. Contour.

0°00′	71°30′R.	1.46	146	✓

130

2°10′	77°05′R	1.17	117	✓
2°15′	68°30′R	0.90	90	✓
2°50′	77°40′R	0.63	63	✓
4°00′	62°40′R	0.30	30	✓
4°00′	77°50′R	0.23	23	✓
3°00′	73°00′R	0.19	17	✓
3°00′	110°55′R	0.30	36	✓
3°00′	115°15′R	0.60	60	✓

180 ft. Contour.

5°30′	111°45′R	0.73	73	✓
7°10′	101°45′R	0.43	43	✓
7°15′	78°50′R	0.26	26	✓
7°00′	98°15′R	0.53	52	✓
7°00′	93°25′R	0.81	80	✓
6°20′	76°10′R	0.88	87	?
4°45′	81°00′R	1.10	110	✓
3°20′	82°00′R	1.42	142	✓
3°00′	81°35′R	1.54	154	✓

175 ft. Contour.

4°30′	86°00′R	1.57	157	✓
5°40′	87°30′R	1.31	130	✓
5°45′	89°40′R	1.03	102	✓
6°00′	101°10′R	0.87	86	✓
9°00′	105°38′R	0.70	68	✓
8°00′	107°00′R	0.88	86	✓

210 ft. Contour.

8°00′	17°05′R	1.27	125	✓
7°30′	21°30′R	1.34	132	✓
6°15′	32°50′R	1.65	163	✓
5°30′	36°45′R	1.97	195	✓
5°00′	43°10′R	2.05	203	✓
5°00′	46°50′R	2.22	220	✓

215 ft. Contour

5°30′	39°45′R	2.37	235	✓
6°00′	34°38′R	2.18	216	✓
7°00′	30°35′R	1.83	181	✓
9°00′	23°45′R	1.52	148	✓
9°00′	10°07′R	1.44	140	✓

220 ft. Contour

10°00′	10°30′R	1.58	153	✓
9°15′	25°15′R	1.70	166	✓
7°15′	26°55′R	1.99	196	✓
7°50′	29°05′R	2.27	223	✓
8°00′	26°45′R	2.57	252	✓

225 ft Contour

9°20′	25°38′R	2.40	234	✓
9°00′	25°45′R	2.05	200	✓
10°20′	17°45′R	1.83	177	✓
11°00′	9°07′R	1.73	167	✓

230 ft. Contour

11°30′	14°15′R	1.90	182	✓
10°30′	21°30′R	2.03	196	✓
11°00′	23°35′R	2.30	222	✓
10°40′	23°15′R	2.40	232	✓

235 ft. Contour

10°50′	21°17′R	2.40	232	✓
11°30′	19°35′R	2.18	209	✓
12°00′	15°10′R	2.06	198	✓
12°15′	11°30′R	2.04	195	✓

△ R. on Round Canyon base line,
210 ft. from Sta. 55 at angle 47°00'L
→ line produced

175 ft. Contours

5°00'	24°35'L.	1.67	166	✓
6°00'	17°40'L.	1.38	137	✓
6°30'	4°40'L.	1.11	110	✓
7°10'	10°35'R.	1.03	101	✓
7°00'	25°15'R.	1.07	105	✓
5°30'	33°16'R.	1.38	137	✓
5°00'	36°37'R.	1.67	166	✓
4°00'	41°10'R.	1.90	190	✓
5°00'	45°10'R.	1.77	176	✓
5°00'	51°55'R.	1.55	154	✓
5°30'	60°55'R.	1.38	137	✓
5°35'	68°48'R.	1.32	131	✓
5°00'	77°00'R.	1.43	142	✓
5°00'	79°00'R.	1.55	154	✓

180 ft. Contours

6°30'	73°20'R.	1.65	163	✓
6°45'	63°50'R.	1.54	152	✓
6°55'	56°20'R.	1.70	168	✓
5°45'	51°00'R.	1.93	191	✓
5°30'	47°05'R.	2.16	214	✓
4°30'	42°40'R.	2.38	238	✓
5°00'	38°30'R.	2.13	211	✓
6°00'	34°35'R.	1.84	182	✓
7°25'	31°50'R.	1.53	151	✓
8°30'	24°45'R.	1.25	122	✓
10°10'	11°45'R.	1.14	110	✓
8°30'	1°50'L.	1.24	121	✓
7°00'	15°00'L.	1.49	147	✓
6°35'	21°40'L.	1.76	174	✓

185 ft. Contours.

7°00'	19°00'L.	1.86	183	✓

8°00′	15°00′L.	1.65	162	✓
9°00′	9°20′L.	1.50	146	✓
10°00′	0°50′R.	1.34	130	✓
10°00′	13°15′R.	1.28	124	✓
9°30′	23°10′R.	1.40	136	✓
8°30′	29°10′R.	1.62	158	✓
7°30′	31°22′R.	1.90	187	✓
6°00′	35°55′R.	2.21	219	✓
5°20′	39°30′R.	2.57	255	✓
5°00′	42°00′R.	2.79	277	✓
5°00′	44°55′R.	2.60	258	✓
5°50′	48°55′R.	2.38	236	✓
6°30′	52°20′R.	2.13	210	✓
6°35′	54°00′R.	1.97	194	✓
7°15′	57°22′R.	1.83	180	✓
7°30′	67°10′R.	1.76	173	✓
7°00′	71°50′R.	1.93	190	✓

190 ft. Contour.

7°30′	70°20′R.	2.17	213	✓
8°15′	66°20′R.	2.02	198	✓
8°30′	60°35′R.	1.97	193	✓
7°30′	53°25′R.	2.31	227	✓
6°45′	50°50′R.	2.60	256	✓
6°00′	47°10′R.	2.86	283	✓
5°20′	43°20′R.	3.17	314	✓
5°40′	39°12′R.	2.91	288	✓
6°35′	36°40′R.	2.57	254	✓
7°30′	32°50′R.	2.26	222	✓
8°30′	29°22′R.	2.05	201	✓
10°00′	25°40′R.	1.78	173	✓
11°30′	15°10′R.	1.51	145	✓
1°30′	4°45′R.	1.52	146	✓
10°15′	6°12′L.	1.62	157	✓
9°30′	13°35′L.	1.83	178	✓

7/25/03 Alverson McLaren Arginsola Rivee 0 20 PM

△ Pt. on 8th St. range line at A2 left.

→ A.O.

165 ft. contour

2°40′	128°00′R	1.22	122	✓
2°45′	112°00′R	0.95	95	✓
2°45′	89°40′R	0.74	74	✓
2°45′	77°00′R	0.96	96	✓
2°45′	59°25′R	0.87	87	✓
2°50′	35°20′R	0.68	68	✓
3°00′	31°35′R	1.12	112	✓
2°30′	41°05′R	1.53	153	✓
2°20′	51°45′R	1.83	183	✓
2°00′	44°40′R	2.31	231	✓
1°00′	52°20′R	4.87	287	✓
1°00′	51°00′R	3.38	338	✓
1°00′	44°05′R	3.60	360	✓
1°00′	36°00′R	3.75	375	✓
0°30′	24°00′R	4.17	417	✓
0°30′	19°20′R	4.60	460	✓

170 ft. contour

0°00′	16°00′R	6.30	630	✓
0°00′	14°52′R	5.60	560	✓
0°00′	12°00′R	5.15	515	✓
0°00′	9°20′R	4.88	488	✓
0°00′	5°36′R	4.47	447	✓
0°00′	1°30′R	3.96	396	✓
0°00′	1°50′R	3.43	343	✓
0°00′	9°15′R	3.10	310	✓
0°00′	18°40′R	3.00	300	✓
0°00′	19°05′R	2.90	290	✓
0°00′	20°00′R	2.63	263	✓

Vertical	Horiz	Rod	
0°00′	24°12′R	2.53	253 ✓
0°00′	23°55′R	2.03	203 ✓
0°00′	15°00′R	1.54	154 ✓
0°00′	8°40′R	1.14	114 ✓
0°00′	8°15′L	0.85	85 ✓
0°00′	28°30′L	0.63	63 ✓
0°00′	44°35′L	0.37	37 ✓
0°00′	89°00′L	0.17	17 ✓
0°00′	172°50′R	0.31	31 ✓
0°00′	134°15′R	0.53	53 ✓
0°00′	139°55′R	0.90	91 ✓
0°00′	146°25′R	0.99	99 ✓

△ Pt. on S.E. St. range tree B 145 right

→ B produced easterly

175 ft. Contour

3°20′	7°15′L	2.26	226 ✓
3°30′	8°30′L	1.97	197 ✓
3°30′	9°35′L	1.84	184 ✓
3°30′	10°20′L	1.98	198 ✓
3°35′	11°05′L	1.80	180 ✓
3°45′	13°22′L	1.46	146 ✓
5°10′	17°35′L	1.17	116 ✓
7°10′	12°12′L	0.80	79 ✓
11°20′	8°35′L	0.47	46 ✓
12°30′	29°20′L	0.45	43 ✓
7°10′	15°10′R	0.77	76 ✓
5°00′	32°20′R	1.15	114 ✓
3°15′	39°30′R	1.63	163 ✓
2°35′	42°45′R	2.15	215 ✓
2°15′	46°40′R	2.53	253 ✓
1°35′	49°55′R	2.82	282 ✓

170 ft. Contour

2°30′	45°35′R	2.87	287 ✓

3°00'	39°35'R.	2.37	237 ✓
4°00'	33°45'R.	1.87	187 ✓
5°15'	29°30'R.	1.46	145 ✓
6°35'	21°10'R.	1.07	105 ✓
7°45'	3°00'L.	0.82	81 ✓
11°30'	33°30'L.	0.64	62 ✓
11°20'	74°30'L.	0.61	59 ✓
9°15'	113°18'L.	0.79	77 ✓
6°30'	121°45'L.	1.12	111 ✓
4°50'	112°45'L.	1.50	150 ✓
3°50'	105°00'L.	1.78	178 ✓
4°00'	90°48'L.	1.70	170 ✓
3°30'	76°12'L.	2.00	200 ✓
3°00'	71°35'L.	2.37	237 ✓

165 ft Contours

4°30'	68°00'L.	2.43	243 ✓
5°00'	69°42'L.	2.13	211 ✓
6°30'	74°45'L.	1.83	181 ✓
6°45'	85°00'L.	1.64	162 ✓
7°00'	91°08'L.	1.60	158 ✓
7°06'	103°20'L.	1.57	155 ✓
7°00'	108°00'L.	1.50	148 ✓
8°30'	113°45'L.	1.23	121 ✓
11°00'	111°45'L.	0.96	93 ✓
14°00'	89°22'L.	0.77	73 ✓
14°00'	53°20'L.	0.78	74 ✓
13°30'	29°36'L.	0.87	84 ✓
11°00'	4°05'L.	1.04	100 ✓
8°30'	15°52'R.	1.28	125 ✓
7°35'	25°10'R.	1.50	147 ✓
6°30'	29°47'R.	1.93	191 ✓
5°00'	31°37'R.	2.27	225 ✓
4°10'	37°30'R.	2.63	262 ✓
3°30'	40°50'R.	2.88	288 ✓

160 ft Contour

4°30′	38°00′R	0.92	292 ✓
4°30′	33°40′R	2.60	260 ✓
5°00′	24°18′R	2.34	232 ✓
6°15′	22°20′R	1.94	192 ✓
8°00′	19°50′R	1.52	149 ✓
9°10′	8°40′R	1.33	130 ✓
9°30′	8°50′L	1.18	115 ✓
11°00′	22°10′L	1.13	109 ✓
13°00′	44°45′L	0.98	93 ✓
13°15′	68°15′L	0.89	84 ✓
12°45′	98°52′L	0.91	92 ✓
11°00′	104°40′L	1.18	114 ✓
9°20′	103°40′L	1.37	133 ✓
9°20′	95°45′L	1.42	138 ✓
8°30′	82°20′L	1.53	150 ✓
7°00′	71°05′L	1.84	181 ✓
6°20′	65°45′L	2.10	208 ✓
5°30′	63°20′L	2.43	241 ✓
4°50′	64°15′L	2.73	273 ✓
4°15′	68°30′L	3.18	318 ✓
4°00′	69°55′L	3.63	363 ✓
3°00′	72°30′R	4°00′	400 ✓
3°00′	73°15′L	4.23	423 ✓

Δ Bk on ft strongline at 13+65 L

→ Bo

210 ft Contour

0°00′	88°35′L	1.30	130 ✓
0°00′	75°15′L	0.89	89 ✓
0°00′	44°45′L	0.70	70 ✓
0°00′	22°35′L	0.71	71 ✓
0°00′	0°05′L	0.96	96 ✓
0°00′	14°05′L	1.30	130 ✓
0°30′	19°08′L	1.68	168 ✓
0°30′	22°40′L	2.02	202 ✓

205 ft. Contour.

0°00′	80°1/2 L.	2.13	213 ✓
0°00′	1°25½ R	1.83	183 ✓
0°00′	9°00′ R	1.53	153 ✓
0°00′	29°45′ R	1.47	147 ✓
0°00′	45°00′ R	1.40	140 ✓
0°00′	55°45′ R	1.46	146 ✓
0°00′	55°45′ R	0.90	90 ✓
0°00′	84°52½ R	0.60	60 ✓
0°00′	117°30′ R	0.22	22 ✓
0°00′	135°00′ L	0.32	32 ✓
0°00′	110°50′ L	0.94	94 ✓

200 ft. Contour

4°20′	145°30′ L	0.69	
6°30′	179°35½ R	0.45	
5°00′	122°25′ R	0.65	
3°00′	94°30′ R	1.04	
2°30′	73°45′ R	1.28	
2°30′	70°00′ R	1.77	
1°30′	63°07′ R	2.24	
1°45′	50°15′ R	2.05	
1°46′	30°00′ R	1.95	

200 ft. Contour

1°10′	20°00′ R	2.07	207 ✓
1°20′	32°17′ R	2.02	202 ✓
1°30′	46°05′ R	2.04	204 ✓
1°15′	60°00′ R	2.27	227 ✓
2°30′	72°15′ R	2.28	228 ✓
2°30′	74°05′ R	1.78	178 ✓
2°15′	79°55′ R	1.38	138 ✓
2°15′	97°30′ R	1.10	110 ✓
4°00′	118°15′ R	0.78	78 ✓
3°00′	158°15′ R	0.51	51 ✓
4°05′	163°30′ L	0.60	60 ✓

4°30'	139°45'L	0.78	✓

195 ft. Contour.

4°30'	138°45'L	1.05	105 ✓
4°00'	160°15'L	0.89	89 ✓
4°00'	161°50'R	0.78	78 ✓
4°00'	178°07'R	1.00	100 ✓
4°30'	102°07'R	1.30	130 ✓
3°45'	87°55'R	1.60	160 ✓
3°00'	82°30'R	1.96	196 ✓
3°00'	79°40'R	2.45	245 ✓
2°30'	75°30'R	2.96	296 ✓
2°30'	69°30'R	2.88	288 ✓
2°00'	60°00'R	2.74	274 ✓
2°00'	50°00'R	2.60	260 ✓
2°00'	39°10'R	2.56	256 ✓
2°00'	31°00'R	2.73	273 ✓
1°10'	23°30'R	2.92	292 ✓

Δ Plane 8th Str. range line to G2 L.
→ G6 L.

220 ft. Contour.

1°10'	43°30'R	2.12	212 ✓
1°05'	34°35'R	1.77	177 ✓
1°30'	23°25'R	1.47	147 ✓
1°30'	2°05'L	1.40	140 ✓
1°30'	30°50'L	1.47	147 ✓
1°30'	53°25'L	1.68	168 ✓
1°35'	66°30'L	2.16	216 ✓
1°40'	77°15'L	2.70	270 ✓
1°40'	83°35'L	3.44	344 ✓
1°30'	85°52'L	3.63	363 ✓
1°30'	92°30'L	3.04	304 ✓

245 ft. Contour.

1°30'	75°15'L	1.05	105 ✓
1°40'	48°35'L	0.72	72 ✓

1°20'	10°40'R.	0.72	72 ✓
1°20'	39°00'R.	1.14	114 ✓
1°15'	47°30'R.	1.82	182 ✓
0°45'	56°45'R.	2.26	226 ✓
0°30'	62°05'R.	2.80	280 ✓
0°15'	66°55'R.	3.22	322 ✓

230 ft. Contour.

0°05'	72°10'R.	3.22	322 ✓
0°05'	73°00'R.	2.58	258 ✓
0°10'	74°55'R.	2.20	220 ✓
0°00'	83°20'R.	2.00	200 ✓
0°00'	91°40'R.	2.00	200 ✓

Δ Arrow 8th ft. range line at □ 0

→ C. 0

255 ft. Contour.

0°00'	10°00'L.	2.63	263 ✓
0°00'	8°30'L.	1.22	122 ✓
0°00'	6°05'L.	0.73	73 ✓
0°00'	4°30'L.	0.47	47 ✓
0°00'	1°35'R.	0.78	78 ✓
0°00'	12°06'R.	1.38	138 ✓
0°00'	19°00'R.	1.87	187 ✓

230 ft. Contour

0°10'	28°05'R.	1.96	196 ✓
0°10'	28°30'R.	1.55	155 ✓
0°10'	30°00'R.	1.16	116 ✓
0°10'	35°00'R.	0.66	66 ✓
0°10'	86°45'R.	0.30	30 ✓
0°10'	152°50'R.	0.33	33 ✓

235 ft. Contour

2°20'	125°12'R	0.74	74 ✓
2°30'	94°15'R	0.76	76 ✓
3°20'	62°00'R	0.90	90 ✓
2°00'	45°10'R	1.26	126 ✓
2°00'	40°30'R	1.73	173 ✓
2°00'	38°00'R	1.97	197 ✓

7/26/03 Alverson, McLaren, Gonzinsola, Lufe

△ Pt. on 6th St. range line 948 ft. No. of So line of Park

→ Range line produced northerly

150 ft. Contour.

6°30'	41°15'L	0.56	55 ✓
6°30'	75°15'L	0.51	50 ✓
3°20'	83°10'L	1.05	105 ✓

3°30'	68°45'L	1.10	110 ✓
3°10'	52°00'L	1.26	126 ✓
2°55'	42°25'L	1.44	144 ✓
3°20'	28°55'L	1.22	122 ✓
3°00'	23°55'L	1.36	136 ✓
2°20'	15°22'L	1.66	166 ✓
2°20'	9°10'L	1.90	190 ✓
2°10'	2°15'L	2.12	212 ✓
2°10'	0°25'L	2.42	242 ✓
1°00'	3°40'L	2.75	275 ✓
1°00'	1°00'L	3.02	302 ✓
1°00'	0°05'L	2.80	280 ✓
1°00'	4°37'R	2.53	253 ✓
1°00'	7°10'R	2.43	243 ✓
1°00'	10°30'R	2.07	207 ✓
1°00'	2°40'R	1.68	168 ✓
1°30'	2°45'R	1.27	127 ✓
2°00'	0°45'R	0.88	88 ✓

(over)

Vert	Hor	Rod	
1°30'	33°08'R	1.56	156 ✓
0°30'	28°30'R	1.71	171 ✓
0°30'	32°25'R	1.52	152 ✓
1°15'	33°45'R	1.21	121 ✓
1°00'	34°42'R	0.99	99 ✓
1°00'	45°38'R	0.68	68 ✓
1°00'	53°48'R	0.36	36 ✓

*

△ Pt. on 8th St. range line at C-2

→ C-0

210 ft. contour (Approx.)

2°45'	69°10'R	3.14	
2°45'	69°10'R	2.14	
2°45'	9°10'L	0.52	52

△ Pt. on 6th St. range line 1250 ft. N. of So. line of Park

→ Park line produced northerly

160 ft. Contours

6°00'	78°05'R	0.56	55 ✓
6°00'	62°15'R	0.73	72 ✓
5°00'	49°25'R	0.96	95 ✓
2°00'	38°50'R	1.23	123 ✓

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.		

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