3

City Park Contours

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City Hall, San Diego, Cal.

157

400

LEVEL

F.B. 157

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	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

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MICROFILMED

TABLE FOR RUNNING ON SLOPES.

7-1964

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
°		°		°		°	
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

157 No 3

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Contours Survey City Park

City Park Contours

1

Feb 12/03

2/12/03 - Alvergon
McLaren
Anginsold
Luke

△ Pt. on 8th Strange 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°20'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 6th 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'	54°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'	37°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°25′R	2.12	212	✓
0°30′	176°00′R	1.92	192	✓
0°45′	182°25′R	1.75	175	✓
0°50′	175°25′L	1.47	147	✓
0°50′	171°10′L	1.12	112	✓
0°55′	161°35′L	0.78	78	✓
1°25′	135°20′L	0.73	73	✓
1°25′	126°55′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°20′L	3.60	360	✓
0°30′	54°10′L	3.87	387	✓
0°30′	48°25′L	4.00	400	✓
0°30′	42°45′L	4.10	410	✓

157½ ft. Contour.

0°30′	49°10′L	4.60	460	✓
0°25′	54°00′L	4.48	448	✓
0°35′	60°00′L	4.47	447	✓
0°45′	62°30′L	4.45	445	✓
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°25′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′	105°45′L	1.72	172	✓
1°0′	111°40′L	1.55	155	✓
1°00′	124°35′L	1.47	147	✓

1°5′	141°00′L	1.42	142	✓
1°00′	154°30′L	1.30	130	✓
1°00′	165°10′L	1.61	161	✓
1°75′	170°10′L	2.02	202	✓
1°00′	172°15′L	2.38	238	✓
1°00′	173°15′L	2.68	268	✓
1°00′	174°25′L	2.77	277	✓
1°00′	174°45′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	4.73	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'	155°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°25'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'	88°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

1°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°55'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°35′	129°50′L	2.58	258	✓
3°35′	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 Contour.

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	✓
4°00′	136°55′L	2.87	287	✓
4°00′	140°35′L	3.04	304	✓
4°00′	145°00′L	3.07	307	✓
4°00′	149°05′L	3.00	300	✓
4°00′	153°35′L	3.30	330	✓

17½ 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	✓

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'	139°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'	147°50'L	3.57	356	

187½ ft Contour

4°30'	146°45'L	3.67	367	✓
4°45'	143°45'L	3.43	343	✓
5°00'	142°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	

185 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.

→ 6th 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	585
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 ✓

18 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	4.73	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	5.28	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	3.67	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°35′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°45'	14°45'R	3.40	340	✓
2°00'	16°15'R	3.20	320	✓
2°00'	15°55'R	3.05	305	✓
2°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°15'R	5.47	547	✓
1°10'	3°15'R	5.17	517	✓
1°15'	4°25'R	4.76	476	✓

Vertical	Horiz	Rod		
1°20'	5°04' R	4.30	430	✓
1°20'	8°25' R	4.00	400	✓
1°30'	11°08' R	3.78	378	✓
1°30'	12°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'	4°15' R	3.85	385	✓
1°40'	3°35' R	4.07	407	✓
1°40'	5°40' R	4.27	427	✓

This contour above meanders around deep hole on 6th St.

△ 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'	68°35' L	0.41	40	✓
7°30'	39°45' L	0.58	57	✓
7°15'	26°35' L	0.80	79	✓
7°15'	17°45' L	0.82	81	✓
7°00'	20°15' L	0.55	54	✓
7°20'	10°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	✓

Contours 150 - 152½ - 155 Contours the hole & Roadway on 6th St just north of Dir

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	✓
5°30'	8°50'R	1.18	118	✓
5°30'	11°22'R	1.50	150	✓
5°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°25′R	1.51	151 ✓
0°30′	13°45′R	1.79	179 ✓
1°30′	15°45′R	2.08	208 ✓
1°30′	12°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°25′L	3.23	323 ✓
0°45′	6°25′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°07′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°20′R	3.90	390 ✓
1°00′	1°35′R	4.10	410 ✓
1°10′	3°25′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°20′	10°30′R	4.65	465 ✓
1°20′	9°25′R	4.27	427 ✓
1°20′	9°15′R	3.96	396 ✓
1°20′	9°55′R	3.63	363 ✓
1°10′	9°40′R	3.28	328 ✓
1°10′	12°00′R	3.00	300 ✓

1°10'	12°50' R	2.68	268 ✓
1°10'	16°10' R	2.33	233 ✓
2°20'	18°20' R	2.08	208 ✓
2°00'	16°35' R	1.66	166 ✓
2°00'	18°35' R	1.32	132 ✓
2°00'	22°22' R	1.15	115 ✓
2°15'	24°30' R	0.84	84 ✓
2°30'	34°05' R	0.50	50 ✓
5°30'	59°45' R	0.28	28 ✓

2/14/03 Alvergon
McLaren
Anginsola
Lude.

Δ Pt on 6th St. range line 300 ft.
N. of So. line of Park
→ 0 on So. line of Park.
147½ ft. Contour.

2°00'	15°20' R	1.60	160 ✓
2°00'	16°35' R	1.09	109 ✓
4°00'	17°15' R	0.68	68 ✓
4°00'	13°55' L	0.65	65 ✓
4°00'	20°45' L	1.08	108 ✓
3°20'	27°40' L	1.35	135 ✓
2°40'	35°45' L	1.48	148 ✓
2°30'	44°20' L	1.65	165 ✓
2°10'	41°10' L	1.96	196 ✓
1°50'	35°18' L	2.28	228 ✓
1°30'	38°42' 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°40'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 margin 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'	89°55'L	2.88	288
1°35'	86°45'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
0°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′	82°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 ✓
2°15′	71°47′L	2.98	298
2°15′	72°25′L	2.47	247 ✓
1°50′	76°42′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 ✓
5°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°25'	67°40'L	3.08	308	✓
3°00'	71°50'L	3.33	333	✓
2°50'	75°06'L	3.67	367	✓

△ Pt on 8th St range line at

C6

→ C0

200 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'	27°15'L	2.34	234	✓

205 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 ✓

2 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	4.25	425 ✓
1°00'	53°30'R	3.93	393 ✓
1°00'	51°07'R	3.57	357 ✓
1°15'	49°40'R	3.12	312 ✓
1°15'	42°05'R	2.78	278 ✓
2°00'	39°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 ✓

2 15 ft. Contour.

3°10'	24°30'L	2.64	264 ✓
3°15'	14°55'L	2.57	257 ✓
3°15'	9°50'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 ✓
5°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'	32°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'	42°25' L	1.88	186 ✓
5°00'	47°15' L	2.37	235 ✓
4°00'	48°55' 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 ✓

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

175 ft. Contour.

2°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°25′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
12°00′	15°20′R	0.82	78
11°30′	44°20′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′	27°35′R	0.45	39
18°00′	27°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′	64°15′L	1.64	164
2°30′	65°30′L	2.05	205
1°20′	66°30′L	2.70	270

180 ft. Contour

1°00′	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°40'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'	42°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	✓
5°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	✓
2°30'	49°45'L	3.40	340	✓
2°00'	50°05'L	3.63	363	✓

185 ft Contour.

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'	75°25'R	2.77	277 ✓
1°20'	80°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'	45°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'	62°00'R	2.34	231
0°00'	67°15'R	2.60	260
0°00'	69°55'R	2.90	290
0°00'	72°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'	42°25'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'	1°5'L	1.88	188

205 ft. Contour

2°30'	32°15'R	1.98	198
2°25'	46°05'R	2.18	218
2°25'	54°50'R	2.17	217
2°25'	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

56

3°00'	65°38'R	3.03	203 ✓
3°00'	62°05'R	2.73	273 ✓
3°25'	55°00'R	2.44	244 ✓
3°15'	46°10'R	2.43	243 ✓

△ Pt. on 8th St. range line at

C 6

→ C 4

195 ft. Contour.

1°30'	59°07'R	2.87	287 ✓
1°30'	52°15'R	2.58	258 ✓
1°30'	46°50'R	2.40	240 ✓
1°45'	40°30'R	2.20	220 ✓
2°15'	35°05'R	2.00	200 ✓
2°30'	17°45'R	1.96	196 ✓
2°20'	6°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'	11°50'R	1.88	188 ✓
3°30'	22°30'R	1.80	180 ✓
4°00'	32°10'R	1.88	188 ✓
4°00'	39°00'R	2.02	202 ✓
3°25'	45°55'R	2.20	220 ✓
3°15'	53°35'R	2.45	245 ✓
3°00'	61°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°25'L	2.02	202	✓

2/16/03 Alverson
McLaren
Anginsole
Luce

△ Pt on 8th St range line at
C3+35 left.
→ C6

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
4°45'	67°45'R	3.85	383	✓

190 ft Contour

3°20'	63°20'R	4.70	470	✓
3°30'	63°00'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	✗
12°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	✓
2°15'	78°30'R	3.35	335	✓
2°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

Vertical Horiz Rods

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

205 ft. Contour ✓

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

210 ft. Contour

1°25'	68°15'R	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'	82°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°55'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°15'	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°22'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°15'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.

720 ft. Contour

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 bank of Mulsey Canyon.

720 ft. Contour

2°20'	96°10'R	2.17	217 ✓
2°20'	96°55'R	1.74	174 ✓

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°50'	104°45'R	0.49	48 ✓
6°30'	107°15'R	0.73	72 ✓
6°30'	104°50'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'	92°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 ✓

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°25'R	2.45	241
7°00'	85°15'R	2.10	206
10°15'	84°35'R	1.72	167
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	0.75	64

195 ft Contour

22°00'	73°35'	0.88	76
17°00'	83°45'R	1.14	104
14°00'	82°50'R	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'	77°10'R	2.83	279

Δ Pt on 8th St range line at E 3+10 right

→ E 0

The contours following are taken on right bank of ravine

225 ft Contour

1°10'	86°45'L	4.82	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'	25°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′	49°55′L	3.64	364
2°30′	48°30′L	3.92	392
2°30′	53°30′L	3.80	380
2°30′	59°35′L	3.67	367
2°30′	67°35′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′	10°20′R	2.52	250
4°30′	18°30′R	2.83	282

3°50'	24°25'R	3.10	310 ✓
3°50'	29°50'R	3.10	310 ✓
3°50'	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.

4°15'	4°50'R	3.70	370 ✓
5°00'	36°20'R	3.10	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°50'	16°15'R	2.62	260 ✓
3°50'	11°20'R	2.44	242 ✓
3°50'	1°50'R	2.47	245 ✓
3°50'	3°30'L	2.40	238 ✓
7°10'	10°30'L	2.13	210 ✓
7°10'	20°13'L	1.90	188 ✓
7°10'	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°10'	63°45'L	3.40	340 ✓
4°10'	69°05'L	3.46	346 ✓
4°15'	75°45'L	3.54	354 ✓
4°10'	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°45'L	4.30	430 ✓
3°30'	94°15'L	4.43	443 ✓
3°00'	96°55'L	4.63	463 ✓

Δ Pt. on 8th St. range line at E.o

→ E produced easterly

The contours following are taken on the left of ravine in which preceeding 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°42′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
2°35′	2°05′L	2.38	238
2°30′	8°15′L	2.18	218
2°30′	19°40′L	1.96	196
2°30′	32°55′L	1.96	196
2°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°21′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. Contour.

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°25′R	4.00	400

210 ft. Contour

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	267
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′	25°12′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 Anginsola 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'	84°07'R	3.22	300	✓
15°30'	78°00'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	✓

Vertical Horiz Rod

0°30'	4°15'R	1.04	104	✓
0°30'	3°20'R	1.37	137	✓
0°15'	2°00'R	1.74	174	✓
0°30'	1°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°06'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	✓

150 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'	42°15'R	1.44	144	✓
1°05'	59°08'R	1.07	107	✓
1°15'	92°46'R	0.88	88	✓
1°30'	126°30'R	1.08	108	✓
1°30'	149°10'R	1.14	114	✓

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2/25/08 Alverson
McLaren
Aggarwala
Lee

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 Hong. Rod.

4°40'	127°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°25'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	5.28	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°25'	100°40'R	1.47	143	✓
8°00'	117°52'R	1.77	174	✓
7°00'	122°25'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	3.38	338	✓
4°30'	23°52'R	3.68	368	✓

4°10'	21°25'R	3.98	398	✓
3°50'	19°00'R	4.50	450	✓
4°00'	18°00'R	4.90	490	✓

180 ft. Contour

4°15'	19°22'R	4.87	487	✓
4°45'	20°55'R	4.42	442	✓
5°15'	22°38'R	4.12	408	✓
5°10'	24°40'R	3.76	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'	59°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	Nitzschia Sp. Lauda Angusta Lucea	11 AM			

185 ft. Bontown.

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'	76°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. Bontown.

12°00'	108°30'R	2.40	230	✓
12°00'	105°30'R	2.12	202	✓
12°45'	94°35'R	2.02	192	✓
12°20'	82°00'R	2.07	198	✓
11°00'	67°45'R	2.39	228	✓
10°15'	60°30'R	2.52	244	✓
10°00'	53°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 Horiz. 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°22'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°20'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°49'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°52'R	2.67	253	✓

210 ft. Contour.

13°45'	94°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	337	✓
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	2.81	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'	57°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	✓

14°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	✓

Δ Pt. on Pound Canyon base line 210 ft from Sta. 55 at angle 47°00' L.

→ Line produced

150 ft. Contour.

5°00'	139°22' 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	✓

at edge of bank

155 ft. Contour.

0°35'	97°30' R	1.72	172	✓
0°40'	101°15' R	1.50	150	✓

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'	57°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	✓

14°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	✓

Δ Pt. on Pound Canyon base line 210 ft from Sta. 55 at angle 47°00' L.

→ Line produced

150 ft Contour.

5°00'	139°22'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	✓

at edge of tank

155 ft. Contour

0°35'	97°30'R	1.72	172	✓
0°40'	101°15'R	1.50	150	✓

0°40'	103°40'R	1.17	117	✓
0°50'	106°30'R	0.83	83	✓
1°15'	105°15'R	0.53	53	✓
1°30'	79°55'R	0.20	20	✓
1°20'	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°20'	20°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'	62°10'R	0.50	50	✓
0°00'	94°45'R	0.80	80	✓
0°20'	92°25'R	1.13	113	✓
0°30'	94°00'R	1.42	142	✓

0°30'	93°26'R	1.66	166	✓

160 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'	42°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	✓
4°10'	40°30'L	0.50	50	✓

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	✓
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	✓

junction of narrows

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°25' L	3.04	304	✓
4°00'	98°25' 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	✓

106

180 ft. Contour

12°10'	103°50'L	0.83	79	✓
11°40'	80°10'L	0.74	71	✓
11°45'	72°30'L	0.73	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	2.38	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'	78°40'L	0.67	67	✓
4°30'	55°00'L	0.83	83	✓
3°00'	73°38'L	1.08	108	✓

3°00'	80°00'L	1.35	135	✓
2°30'	83°20'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°20'L	2.87	287	✓

195 ft. Contour

0°45'	87°00'L	2.83	283	✓
0°45'	85°22'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'	24°40'L	0.86	86	✓

0°30'	6°00'L	0.81	81	✓
0°30'	0°30'L	0.56	56	✓
0°30'	5°20'L	0.28	28	✓
0°30'	33°10'L	0.11	11	✓
0°30'	136°35'L	0.08	8	✓

200 ft. Contour

0°00'	104°00'R	0.05	5	✓
0°00'	29°20'R	0.23	23	✓
0°15'	17°52'R	0.60	60	✓
0°15'	11°00'R	0.94	94	✓
0°15'	5°45'R	1.08	108	✓
0°00'	1°00'L	0.99	99	✓
0°30'	29°50'L	1.03	103	✓
0°30'	48°25'L	1.08	108	✓
0°30'	63°45'L	1.30	130	✓
0°30'	72°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°22' L	1.77	177	✓
1°30'	63°45' L	1.50	150	✓
1°35'	50°00' L	1.26	126	✓
1°35'	32°30' L	1.17	117	✓
1°45'	14°15' L	1.13	113	✓
2°00'	1°42' 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°25' R	0.21	21	✓

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210 ft. Contour

12°25'	108°40' R	0.38	36	✓
12°30'	72°25' R	0.38	36	✓
7°00'	46°55' R	0.66	65	✓
4°45'	37°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'	47°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°25'L	2.32	232	✓
4°30'	67°40'L	2.07	207	✓
4°15'	63°30'L	1.85	185	✓
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°25'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'	2°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°25'	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	✓
225 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	1.68	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°55'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'	42°30' R	2.06	200
10°45'	48°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 Pt. on 8th St range line at H.1+70 L

→ Ho

235 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	0.63	58	
16°00'	33°50' R	0.64	59	

Taken twice

	11°30′	12°50′R	0.81	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.					
	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	

	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′	30°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	

Twice

220 ft. Contour.

7°30′	45°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	
12°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°20'	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°00'R	1.35	123	✓
18°00'	54°30'R	1.25	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	359	✓
6°20'	71°20'R	3.95	390	✓

1.76

△ Pt. on 8th Range line 260 ft. N. of G.O.

→ H.O.

205 ft. Contour.

15°45'	13°30' L.	0.47	47	✓
9°30'	14°35' L.	0.71	69	✓
6°30'	14°20' L.	1.03	102	✓
6°00'	53°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°20'	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°20'	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°20'	21°42' L.	1.41	141	✓
3°00'	28°10' L.	1.68	168	✓
4°00'	36°35' L.	1.39	139	✓
4°30'	58°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	✓
2°00'	60°40'L	0.67	67	✓
2°20'	40°40'L	0.98	98	✓
2°10'	31°00'L	1.30	130	✓
2°20'	25°30'L	1.07	107	✓
2°30'	10°00'L	0.82	82	✓
2°30'	22°15'R	0.83	83	✓
2°15'	41°30'R	0.93	93	✓
3°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°20'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'	105°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	✓

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'	27°50'R	0.23	23	✓
3°00'	73°00'R	0.17	17	✓
3°00'	110°55'R	0.30	30	✓
3°00'	115°15'R	0.60	60	✓

180 ft. Contour.

5°20'	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'	12°05'R	1.27	125	✓
7°30'	27°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	✓

182

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'	23°15'R	1.70	166	✓
7°15'	26°55'R	1.99	196	✓
7°50'	29°05'R	2.27	223	✓
8°00'	28°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	✓

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

175 ft. Contour

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. Contour

6°30'	73°20'R	1.65	143	✓
6°45'	63°50'R	1.54	152	✓
6°55'	56°25'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°50'R	2.13	211	✓
6°00'	34°25'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°25'	21°40'L	1.76	174	✓

185 ft. Contour

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	✓
11°30′	4°45′R	1.52	146	✓
10°15′	6°12′L	1.62	157	✓
9°30′	13°35′L	1.83	178	✓

2/25/03 Alverson McLaren Anginsola Lucee 0 20 P M

△ 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'	48°40'R	2.31	231	✓
1°00'	52°20'R	2.87	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'	26°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'	148°25'R	0.99	99	✓

△ At ow 8th St range line B 1.50 right

→ B pushed westerly

175 ft. Contour

3°20'	77°15'L	2.26	226	✓
3°30'	81°30'L	1.97	197	✓
3°30'	91°35'L	1.84	184	✓
3°30'	105°20'L	1.98	198	✓
3°35'	114°05'L	1.80	180	✓
3°45'	120°22'L	1.46	146	✓
5°10'	129°35'L	1.17	116	✓
7°10'	127°12'L	0.80	79	✓
11°20'	84°35'L	0.47	46	✓
12°30'	79°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'	47°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. Contour

4°30'	68°00'L	2.43	243 ✓
5°00'	69°40'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°00'	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°30'L	0.84	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 ✓
5°30'	29°47'R	1.93	191 ✓
5°00'	31°37'R	2.27	225 ✓
4°0'	37°30'R	2.63	262 ✓
3°30'	40°50'R	2.88	288 ✓

160 ft Contour

4°30'	38°00' R	2.92	292 ✓
4°30'	33°40' R	2.60	260 ✓
5°00'	29°18' R	2.34	232 ✓
6°15'	24°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	0.97	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°25' 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' L	4°00'	400 ✓
3°00'	73°15' L	4.23	423 ✓

△ Bt on 8th St range line at B3+65 L

→ B0

210 ft Contour

0°00'	88°35' L	1.30	130 ✓
0°00'	75°15' L	0.89	89 ✓
0°00'	41°45' L	0.70	70 ✓
0°00'	21°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'	8°07' L.	2.13	213 ✓
0°00'	1°25' 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°55' 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°35' R.	0.45	
5°00'	122°25' R.	0.65	
3°00'	94°30' R.	1.04	
2°30'	73°45' R.	1.78	
2°30'	70°00' R.	1.77	
1°30'	63°07' R.	2.24	
1°45'	50°25' 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°25' R.	0.51	51 ✓
4°05'	165°30' L.	0.60	60 ✓

4°30'	139°45' L	0.78	✓

195 ft. Contour.

4°30'	138°25' L	1.05	105 ✓
4°00'	160°15' L	0.89	89 ✓
4°00'	161°50' R	0.78	78 ✓
4°00'	128°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°20'	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 Pt on 8th St. range line at C2 L
→ C6 L

220 ft. Contour.

1°10'	45°20' R	2.12	212 ✓
1°05'	34°35' R	1.77	177 ✓
1°20'	23°25' R	1.47	147 ✓
1°20'	2°05' L	1.40	140 ✓
1°30'	30°50' L	1.47	147 ✓
1°30'	53°25' L	1.68	168 ✓
1°35'	68°30' L	2.16	216 ✓
1°40'	77°15' L	2.70	270 ✓
1°40'	83°35' L	3.44	344 ✓
1°20'	85°52' L	3.63	363 ✓
1°20'	92°25' L	3.04	304 ✓

225 ft. Contour.

1°20'	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°15'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 ✓

△ Pt on 8th St. range line at □ o

→ C o

225 ft. Contour.

0°00'	100°00'L	2.63	263 ✓
0°00'	85°30'L	1.22	122 ✓
0°00'	68°05'L	0.73	73 ✓
0°00'	41°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'	25°00'R	1.16	116 ✓
0°10'	35°00'R	0.66	66 ✓
0°10'	86°25'R	0.30	30 ✓
0°10'	152 50R	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 ✓

2/26/03 Alverson
McLaren
Anginsola
Lude

△ Pt. on 6th St. range line 848 ft
W. 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)

△ Pt. on 8th St range line at C2

→ C0

210 ft Contour (Approx)

2°45'	69°10'R	3.14	
2°45'	69°10'R	2.14	

2/26

2°45'	9°10'L	0.52	52

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

→ Range line produced northerly

160 ft Contour

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 ✓

Vert	Hoz	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 ✓

#

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

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TRAVERSE TABLE FOR TRANSIT BOOK.

From 1° to 90° for a distance of 100.

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

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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