

1399

TORREY, J. H.

FIELD BOOK

1885

1885

MICROFILMED

DEC 23 1964

*Individual
No.*

Our Leather Bound Engineers Note Books are carried in the following rulings:

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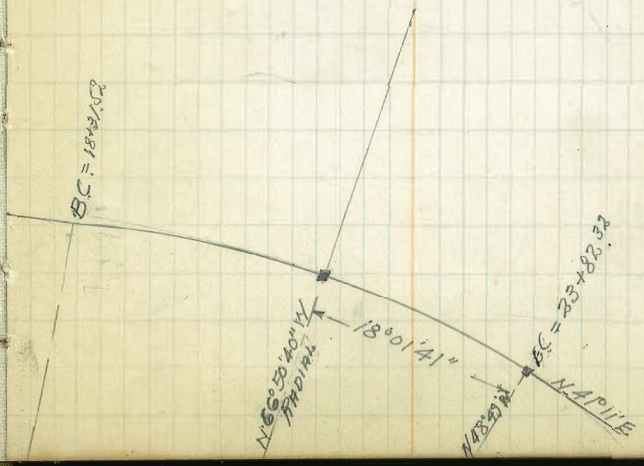
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THE FREDERICK POST CO.
ENGINEERING and DRAFTING SUPPLIES
IRVING PARK STATION
CHICAGO, ILL.

East Line "C"	0+00 to 62+		1 to 7
" " "D"	32+6 1/2 ✓ 62+		8 to 11
✓ side "D"	396 ✓ 433	6/25/30	12 to 39
	✓ B.M. No. 1 to No. 11		40
± levels	✓ Line change 422 to S. end		41 to 44

X Sec. Existing Trolley Pines Grade	0+00 to 10+	Dec-30-1930	47/51
" " Strip Bet. Old paving & New east Grade. "D" line	00 to 8+50	1-5-31	53-58
" " Fill 458+50 to 469+85	over Haul from Dip Cut	1-19-1931	59-67



Torrey Pines
East Line "C"

BM #13	0.76	31.26	30.50
TP	1.27	19.92	12.61 18.65
TP	2.73	14.38	8.26 11.66
0+0		10.4	4.0
on Parking opp 0+0		3.0	11.4
+4.83 P.C. Lt.		10.1	4.3
+2.5		7.8	6.6
+5.0		11.6	2.8
1+0		12.1	2.3
+2.5		10.0	4.4
+5.0		11.9	2.5
2+0		14.5	-0.1
+5.0		11.1	2.3
+7.5		11.2	3.2
3+0		14.4	0.0
+5.0		12.0	2.4
4+0		14.4	0.0
+5.0		13.1	1.2
5+0		13.3	1.1
+5.0		10.6	3.8
6+0		6.2	8.1
+5.0		10.5	3.9
7+0		9.0	5.4
+5.0		14.6	-0.2
+7.5 - Edge Water		17.2	-2.8

B.P. E. End of Cb
Bottom Grade

14.38

9+55 - Edge Water	17.1	-2.7
10+0	3.4	11.0
TP 12.71 26.32	0.77	13.61
+2.5	6.8	19.5
TP 12.07 37.97	0.42	25.90
+5.0	11.4	26.6
+86.06 E.C.	8.99	28.98
11+0	8.6	29.4
+4.5	7.5	30.5
12+0	5.9	32.1
+5.0	2.1	35.9
TP 12.31 48.36	1.92	36.05
13+0	7.7	40.7
TP 12.35 60.69	0.02	48.64
+5.5	12.6	48.1
14+0	6.5	54.2
TP 12.51 73.18	0.02	60.67
+5.0	12.1	61.1
15+0	7.3	65.9
TP 12.61 85.76	0.03	73.15
+5.0	15.4	70.4
16+0	15.1	70.7
+5.0	11.8	74.0
17+0	6.5	79.3
+5.0	1.9	83.9

6-18-30
Sight
North
Kenny 3

on Hub

Torrey Pines "C" Line

85.76

132.41

4

TP	12.79	97.96	0.59	85.17	17+12.30 on Hub
18+0			11.4	86.6	
+50			10.3	87.7	
19+0			7.8	90.2	
+50			6.3	91.7	
20+0			4.2	93.8	
+50			3.5	94.5	
TP	12.69	107.05	3.60	94.36	
21+0			9.8	97.2	
+50			6.5	100.5	
TP	9.22	116.25	0.02	107.03 ✓	
22+0			12.3	103.9	
+50			8.9	107.3	
23+0			5.0	111.2	
+50			1.7	114.5	
TP	11.82	127.84	0.29	115.96	23+81.79 ROT. on Hub
24+0			11.7	116.1	
+50			10.9	111.9	
25+0			10.2	117.6	
+06.47 = P.C.H.			16.27	117.57	on Hub
+50			9.6	118.2	
26+0			12.1	115.7	
+50			11.0	116.8	
27+0			8.4	119.4	
+50			5.1	122.7	
TP	+96.08 = J.C. 8.88	132.41	4.31	123.53	on Hub

28+0			8.8	123.6	
+50			13.0	119.4	
+6.5			14.7	117.7	
29+0			14.9	117.5	
+50			12.9	119.5	
30+0			10.9	121.5	
+50			5.7	126.7	
TP	12.47	141.57	3.31	129.10	
+7.5			12.8	130.8	
31+0			5.8	135.8	
TP	8.82	150.31	0.08	141.49	
+50			3.3	147.0	
+63.49 ROT			2.6	148.05 on Hub	
32+0			10.2	140.1	
TP	2.98	140.54	12.75	137.56	
+50			14.6	135.9	
+61.79 = P.C.H.			14.86	135.68 on Hub	
+7.7			14.4	126.1	
33+0			28.1	112.4	
+20			12.4	128.1	
+50			11.2	129.3	
TP	12.73	152.87	0.40	140.14	
34+0			7.0	145.9	
TP	12.83	165.70	0.00	152.87	
+2.5			5.0	160.7	
+4.0			0.0	165.7	

Torrey Pines 'C' Line
16570

TP	10.75	176.38	0.07	165.63
34+45			1.9	174.5
+55			+1.0	177.4
+80			+1.2	177.6
35+0			13.6	162.8
+10			16.5	159.9
TP	12.40	188.37	0.41	175.97
+50			11.7	176.7
TP	12.37	200.57	0.17	188.20
36+0			6.1	194.5
TP	12.90	213.38	0.09	200.48
+50			10.7	202.7
37+0			4.0	209.4
+50			0.9	212.5
TP	32.5	216.32	0.31	213.07
38+0			3.8	212.5
+50			7.3	209.0
+75			3.9	212.4
39+0			7.2	209.1
+50			9.1	207.2
TP	0.44	203.95	12.81	203.51
+80			8.5	199.4
TP	0.33	191.40	12.88	191.07
+99.62: R.C.			5.05	186.35
40+11			12.5	177.9
+35			19.7	171.7

Hail in Sand Pit
39+11

on 5/23
1.5 R/ of 37/50

Hail in Sand Pit
39+89

07 of Hub High Cor.

191.40

5

40+50				18.1	173.3
+60				27.1	164.0
+80				25.2	166.2
41+0				8.1	183.3
TP	0.32	179.14		12.58	178.82
+30				5.3	173.8
+50				12.3	166.8
+70				18.0	161.1
42+0				17.1	162.0
TP	6.00	172.12		13.05	166.12
+50				14.0	152.1
43+0				12.4	159.7
+50				9.1	163.0
+70				8.2	163.9
+75				10.1	162.0
+85				7.0	165.1
44+0				6.3	165.8
+25				5.2	166.9
+40				6.4	165.7
+50				4.0	168.1
TP	12.41	183.84		0.19	171.43
+540				6.7	177.1
TP	12.19	195.56		0.47	183.27
+25				12.2	183.4
+50				5.0	190.6
+60				1.6	194.0

on 5/23
1.5 R/ of 37/50
41+15

Torrey Print C^o Line

	19556			
TP	1271	207.85	0.42	19514
46+0			7.0	2009
TP	1216	219.98	0.03	20782
+20			12.1	2079
+3167-PCPA			4.75	21523 on Hub
TP	1197	231.81	0.14	21984
+50			10.8	221.0
TP	1270	244.35	0.16	23165
+80			4.0	240.3
TP	1201	256.21	0.12	24423
TP	1220	268.41	0.03	25621
47+0			10.0	258.4
TP	1290	281.03	0.28	26813
TP	1168	292.27	0.44	28059 ✓
+35			4.8	287.5
TP	1274	305.01	0.00	292.27
+50			7.6	297.4
TP	1273	317.35	0.39	30422 on Stub
+80 P.O.C.			6.50	310.85 47+65 with Guard
48+0			11.1	306.3 on Hub
+50			25.4	291.9
+60			27.0	290.3
49+0			9.3	308.0
+2139 = F.C.			5.86	311.49 on Hub
+50			5.8	311.5

317.35

6-19-30

6

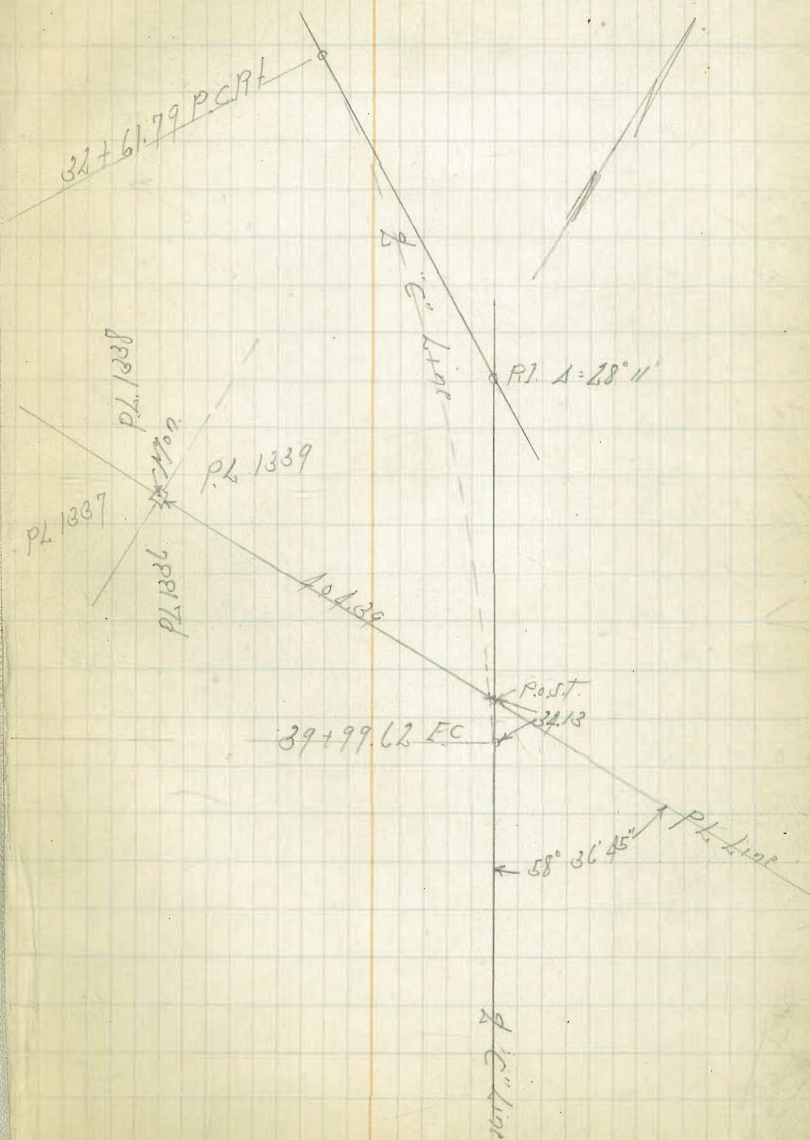
50+0			1.8	315.5
TP	1281	329.80	0.36	316.99
+20			8.4	321.4
+50			10.2	319.6
+85			8.9	326.9
57+0			+0.6	330.4
+15			0.0	329.8
+50			1.7	328.1
+63			1.4	328.4
+85			9.5	320.3
52+0			12.3	317.5
+10			12.1	317.7
+25			9.4	320.4
+50			9.5	320.3
TP	1284	342.33	0.31	329.49
+88			7.8	334.5
53+0			5.0	337.3
+05.0			5.0	337.3
TP	1120	351.84	1.69	340.64
+06.0			6.8	345.0
+50			4.6	347.2
+66.70			4.75	347.09 on Hub
54+0			5.3	346.5
+50			5.7	346.1
55+0			5.7	346.1
+58			4.9	346.9

8/5/54				
5640			47	347.1
+50			4.3	347.5
TP	10.12	358.09	4.37	347.47
+70			12.2	345.9
5740			11.8	346.2
+50			12.8	345.9
5840			14.3	343.8
+06.94-PCR			14.47	343.62
+50			15.3	342.8
5940			14.3	343.8
+50			11.0	347.1
+65			9.3	348.8
6040			8.3	349.8
+50 - East Edge Pavings			7.14	350.95
6140	0.0	"	5.29	352.80
+50	"	"	3.37	354.78
6240	"	"	1.30	356.79
+07.93-IC	"	"	0.99	357.10
TP	0.10	345.58	12.61	345.48
TP	3.58	336.19	12.97	332.61
BM			11.32	324.87

#2 2" IR BP
 67' IR of 12443
 Cliff Post
 324.82

"C" Line
 Tie to S.E. Cor. P.L. 1338

7



56+

+

TP

57+

57+

+

58+

+

+

59+

+

+

60+

+

61+

+

62+

+

TP

TP

81

Torry Pion D Line

32+61.79D ^{POC}	32+61.79C P.C.M	125.68	on 1/2 Hub
+75		126.1	
33+0		112.4	
+20		128.1	
+50		129.3	
34+0		145.9	
BM	12.32	177.95	165.63
+30		13.3	164.6
+50		6.5	171.4
+64		4.0	173.9
+70		5.3	172.6
35+0		21.8	156.1
+30		2.2	175.7
TP	12.39	190.34	0.00
+50		9.3	181.0
+70		3.8	186.5
TP	12.77	202.71	0.40
36+0		10.9	191.8
+50		4.7	198.0
TP	3.78	206.23	0.26
+88.14 P.C.P		3.36	202.87
37+0		2.2	204.0
+50		6.5	199.7
38+0 POC		9.81	196.42
+70		11.4	194.8

1/2 of Sand
34+0
35+0
36+0

206.23

6-20-30

9

TP	0.68	193.94	12.97	193.26
38+50			14.7	179.2
TP	0.37	182.11	12.20	181.74
39+0			20.5	161.6
+45			32.0	150.1
+50			31.0	151.1
+70			19.5	162.6
+90			16.2	165.9
TP	0.63	169.87	12.87	169.24
40+0 POC			6.24	163.63
TP	0.54	157.18	12.93	156.94
+50			9.9	147.6
TP	0.23	145.13	12.58	144.90
41+0			9.8	135.3
+50			11.5	133.6
+70			9.8	135.3
42+0			9.5	135.6
+6.0			12.3	132.8
+15			8.8	136.3
+50			5.6	139.5
TP	12.60	156.56	11.7	143.96
43+0			12.4	141.2
+50			7.2	149.4
44+0			0.5	156.1
TP	12.41	168.87	01.5	156.41

on Top
of Stake 4+0

Torrey Pines 3' Line

		16887		
44+30		9.0	159.9	
+50		0.9	168.0	
TP	12.79	181.51	0.15	16872
TP	12.46	193.78	0.15	18136
45+0		1.5	193.3	
TP	12.32	206.07	0.03	19375
+18		3.0	203.1	
TP	12.67	218.57	0.17	20590
+50		5.7	212.9	
TP	12.59	230.83	0.33	21824
+95		6.1	224.7	
46+0		8.7	222.1	
+20		2.8	228.8	
+38		0.6	230.2	
+50		7.1	223.7	
+70		14.1	216.7	
47+0		10.5	220.3	
+15		4.4	226.1	
TP	12.68	243.33	0.18	230.65
TP	12.21	255.39	0.15	242.18
+50		+2.8	258.2	
TP	12.57	267.94	0.02	255.37
TP	12.31	280.12	0.13	267.81
+65		4.0	276.1	
+80		2.2	277.9	

on April 20 1st of 1971

		280.12		
TP	12.76	292.81	0.07	280.05
48+0			5.7	287.1
TP	12.94	305.42	0.33	292.48
TP	12.80	317.78	0.44	304.98
+50			0.2	317.6
TP	12.26	329.59	0.45	317.33
+70			1.2	322.4
+75	9.05	335.92	1.23	328.36
TP	7.56	33	1.23	328.36
49+0			5.0	330.9
+50			2.9	333.0
50+0			3.5	332.4
+50			6.8	329.1
+85			12.0	323.9
51+0			12.2	322.7
TP	0.97	324.13	12.76	323.16
+3702 EC.			14.56	309.57
+50			19.7	304.4
+81.5			33.8	290.3
+85			45.8	278.3
52+0			35.0	289.1
+50			22.5	301.6
+80			23.2	300.9
+85			27.5	296.6
53+0			36.0	294.1

072 Hus

072 Hus

Torrey D" Line

		324.13		
+50			19.3	3048
TP	12.15	335.25	1.03	323.10
54+0			4.9	330.3
+9.0			1.4	333.8
TP	12.55	347.33	0.97	334.78
+10			4.7	342.6
+25			0.5	346.8
TP	3.59	350.69	0.23	347.10
+50			2.3	348.4
55+0			4.0	346.7
+50			4.8	345.9
56+0			4.2	346.5
+50			3.9	346.8
TP	6.65	352.43	4.91	345.78
57+0			5.3	347.1
+50			4.8	347.6
58+0			6.8	345.6
+50			8.5	343.9
59+0			9.3	343.1
58+0694C Line PC For Check			8.78	343.65
+50			10.0	342.4
60+			8.3	344.1
+30			4.3	348.1
+50			3.8	348.6
61+0			2.5	349.9

on 44.0
348.68

352.43

61+50 on Paving	1.42	351.01
10.36	341.55	1.24
62+0 on Paving	8.25	352.80
+50 " "	6.84	354.71
+73.07 = PC on Paving	5.91	355.64
63+07.93 E.C. "Chin"	4.42	357.13

Cross Section Terry Pines East Side

D Line

Sta 396+0 to 438+0

Station	BM/TP	Dist	Angle	Reading	Notes	Dist	Angle	Reading
396+0	BM	12.63		337.45		100 Lt		15.6
	TP	12.54	0.22	337.83	42 8" P 80 12 Rt of 1212 1111 Point	55 Lt		14.0
	TP	12.52	1.03	348.74		25 Lt		12.5
	BM		5.24	355.42	201. Point 1091 142" RC.	10 Lt		9.0
	TP	12.47	0.14	361.12		8 Lt - Edge Point		9.35
	TP	12.73	0.20	373.39		2 on "		9.12
	BM		10.31	375.81	3 Hails Pals Rt of 403+5	8 Rt - Edge "		9.22
	TP	12.74	0.37	385.75		10 R		8.7
	BM	10.34	1.05	397.44	3 Hails Pals Rt of 396+77	22 R		10.5
396+0						25 R		10.4
	100 Rt of 2		1.9	402.9		60 R		9.4
	70 R		6.3	401.5		100 R		7.3
	50 R		7.3	400.5				
	30 R		8.5	399.3		100 R		8.8
	25 R		8.6	399.6		60 R		10.6
	10 R		6.1	401.5		25 R		12.0
	8 R - Edge Point		6.16	400.92		20 R		11.9
	2 on "		7.61	400.77		10 R		10.8
	8 Lt		7.20	400.58		8 R - Edge Pav		11.14
	10 Lt		7.0	400.8		2 on "		11.07
	20 Lt		10.1	397.7		8 Lt - Edge "		11.80
	25 Lt		10.5	397.3		10 Lt		11.0
	50 Lt		11.4	396.4		20 Lt		13.3
	75 Lt		12.4	395.4		25 Lt		13.5
	100 Lt		13.1	394.2		60 Lt		15.4

407.78

396+50

6-25-30
S. J. ...
12
Osborn
Kangas

20778

100' Lt	17.0	390.8
	3977.50	
100' Lt	18.2	389.6
60' Lt	16.5	391.3
25' Lt	14.9	392.9
10' Lt	12.7	395.1
8' Lt - Edge Par	12.98	394.80
2' "	12.82	394.96
8' Rt - Edge	12.90	394.88
10' Rt	12.2	395.6
25' Rt	12.9	394.9
60' Rt	11.7	396.1
100' Rt	10.2	397.6
	3987.0	
100' Rt	11.1	396.7
60' Rt	12.5	395.3
25' Rt	14.0	393.8
10' Rt	12.5	393.3
TP	3.99	3991.9
	12.58	395.20
8' Rt - Edge Par	6.07	393.12
2' "	5.97	393.22
8' Lt - Edge	6.09	393.10
10' Lt	5.8	393.4
25' Lt	6.9	392.5
60' Lt	8.5	390.7
100' Lt	10.9	388.2

39919

13

	3987.50	
100' Lt	12.1	387.1
60' Lt	9.2	390.0
25' Lt	8.2	391.0
8' Lt - Edge Par	7.78	391.41
2' "	7.68	391.51
8' Rt - Edge	7.76	391.43
15' Rt	7.8	391.4
25' Rt	6.4	392.8
60' Rt	5.2	394.0
100' Rt	3.8	395.4
	3997.0	
100' Rt	4.7	394.5
60' Rt	6.6	392.6
25' Rt	7.5	391.7
16' Rt	8.2	391.0
15' Rt	9.4	389.8
8' Rt - Edge Par	9.56	389.63
2' "	9.44	389.75
8' Lt - Edge	9.56	389.63
12' Lt	9.7	389.5
25' Lt	9.5	389.7
60' Lt	11.0	388.2
100' Lt	13.6	385.6
	3997.50	
100' Lt	15.2	384.0

D Line

399.19

60 Lt	12.9	380.3
25 Lt	11.2	388.0
8 Lt - Edge Par	11.33	387.86
1/2 07 "	11.19	388.00
8' Pt - Edge "	11.27	387.92
15 Pt	11.1	388.1
16 Pt	10.0	389.2
25 Pt	9.0	390.2
60 Pt	7.5	391.7
100 Pt	6.0	393.2

100+0

100 Pt	7.3	391.9
60 Pt	9.1	390.1
25 Pt	10.7	388.5
16 Pt	12.1	387.1
15 Pt	12.9	386.3
8' Pt - Edge Par	12.94	386.25
1/2 07 "	12.9	386.28
8' Lt - Edge "	12.04	386.15
25 Lt	13.4	385.8
60 Lt	15.5	383.7
100 Lt	17.8	381.4

TP 7.14 393.46 12.27 386.32

100+50

100 Lt	15.2	378.2
60 Lt	13.4	381.0

393.46

14

25 Lt	18.0	383.4
10 Lt	8.8	384.6
8 Lt - Edge Par	9.11	384.35
1/2 07 "	8.97	384.49
8' Pt - Edge "	8.97	384.49
15 Pt	9.0	384.4
25 Pt	7.6	385.8
40 Pt	5.6	387.8
70 Pt	4.4	389.0
100 Pt	2.8	390.6

101+0

100 Pt	4.7	388.7
60 Pt	7.2	386.2
25 Pt	10.1	383.3
8' Pt - Edge Par	10.77	382.69
1/2 07 "	10.65	382.81
8' Lt - Edge "	10.28	382.68
15 Lt	10.9	382.5
25 Lt	12.6	380.8
60 Lt	15.5	378.0
100 Lt	18.2	375.2

101+25

100 Lt	18.4	375.0
60 Lt	16.0	377.4
25 Lt	14.0	379.5
15 Lt	11.5	382.0

39346

8' Lt. Edge Pav	11.63	381.83
2 on "	11.48	381.98
8' Pt. - Edge "	11.63	381.83
25' Pt.	11.6	381.8
35' Pt.	9.8	383.6
75' Pt. - Top Cliff	7.7	385.7
B.M.	10.15	383.31
TP 083	38/135	12.94
100' Pt.	17.0	364.3
	401+50	
100' Pt.	20.6	360.7
94' Pt.	18.6	362.7
80' Pt.	23.0	358.3
65' Pt.	11.5	369.8
60' Pt.	+2.0	383.3
32' Pt.	+0.7	382.0
25' Pt.	-0.5	380.8
21' Pt.	1.4	380.0
8' Pt. - Edge Pav	0.31	381.04
2 on "	0.18	381.17
8' Lt. Edge "	0.33	381.02
10' Lt.	0.0	381.4
20' Lt.	2.4	379.0
25' Lt.	3.0	378.4
60' Lt.	5.1	375.8
100' Lt.	7.5	373.9

38135

15

	401+75	
100' Lt.	8.4	373.0
60' Lt.	6.3	375.1
25' Lt.	3.8	377.6
20' Lt.	3.2	378.2
13' Lt.	0.9	380.4
8' Lt. - Edge Pav 129	1.20	380.15
2 on "	1.01	380.34
8' Pt. - Edge "	1.15	380.20
13' Pt.	0.9	380.4
25' Pt.	1.8	379.5
30' Pt.	1.5	379.8
40' Pt.	2.8	358.5
55' Pt.	2.2	352.1
75' Pt.	32.0	349.3
100' Pt.	24.4	356.9
	402+0	
100' Pt.	29.7	351.6
75' Pt.	36.0	345.3
45' Pt.	17.6	363.7
35' Pt.	12.6	368.7
30' Pt.	2.8	378.5
25' Pt.	2.8	378.5
10' Pt.	1.7	379.6
8' Pt. - Edge Pav	1.97	379.38
2 on "	1.86	379.49

D Line

381.35

8' Lt - Edge Pav	2.02	379.33
10' Lt	1.7	379.6
14' Lt	1.9	379.4
20' Lt	4.5	376.9
25' Lt	5.1	376.2
60' Lt	7.5	373.8
100' Lt	9.0	372.3

402+25

100' Lt	10.3	371.0
60' Lt	8.1	373.2
25' Lt	6.0	375.3
20' Lt	5.8	375.5
13' Lt	2.5	378.8
8' Lt - Edge Pav	2.86	378.49
2 on "	2.71	378.64
8' Rt - Edge "	2.83	378.52
20' Rt	3.5	377.8
25' Rt	4.0	377.3
37' Rt	3.5	377.8
50' Rt	2.61	355.2
65' Rt	3.09	350.4
80' Rt	3.96	341.7
100' Rt	48.0	333.3

403+50

100' Rt	30.9	350.4
90' Rt	23.6	347.7

381.35

80' Rt	31.1	350.2
55' Rt	23.3	358.0
53' Rt	4.4	376.9
25' Rt	5.0	376.3
17' Rt	3.8	377.5
8' Rt - Edge Paving	3.16	377.69
2 on "	3.54	377.81
8' Lt - Edge	3.73	377.62
10' Lt	3.4	377.9
25' Lt	6.8	374.5
60' Lt	9.0	372.3
100' Lt	10.9	370.4

403+75

100' Lt	11.4	369.9
60' Lt	9.2	372.1
25' Lt	7.4	373.9
10' Lt	4.2	377.1
8' Lt - Edge Pav	4.55	376.80
2 on "	4.36	376.99
8' Rt - Edge "	4.42	376.93
10' Rt	4.2	377.1
25' Rt	5.3	376.0
46' Rt	5.4	375.9
52' Rt	7.6	373.7
56' Rt	14.6	366.7
87' Rt	14.8	367.1

16

381.35

100' Pt.	228	358.5
103+0		
100' Pt.	271	354.2
82' Pt.	192	362.1
72' Pt.	208	360.5
57' Pt.	205	360.8
53' Pt.	88	372.5
43' Pt.	67	374.6
25' Pt.	64	374.9
8' Pt. - Edge Pav.	522	376.13
2' on "	517	376.18
8' Lt. - Edge	532	376.03
10' Lt.	50	376.3
25' Lt.	82	373.1
60' Lt.	99	371.4
100' Lt.	119	369.4
103+25		
100' Lt.	122	369.1
60' Lt.	111	370.2
25' Lt.	88	372.5
10' Lt.	58	375.5
8' Lt. - Edge Pav.	608	375.27
2' on "	593	375.42
8' Pt. - Edge "	601	375.34
10' Pt.	58	375.5
25' Pt.	73	374.0
42' Pt.	67	374.6

381.35

17

65' Pt.	92	372.1
77' Pt.	30.3	351.0
100' Pt.	33.4	347.9
103+50		
100' Pt.	23.2	358.1
75' Pt.	22.2	359.1
70' Pt.	8.1	373.2
50' Pt.	7.1	374.2
25' Pt.	7.6	373.7
10' Pt.	6.5	374.8
8' Pt. - Edge Pav.	678	374.57
2' on "	673	374.62
8' Lt. - Edge	682	374.53
10' Lt.	6.6	374.7
25' Lt.	9.5	371.8
60' Lt.	11.5	369.8
100' Lt.	13.0	368.3
103+75		
100' Lt.	12.3	368.0
60' Lt.	12.3	369.0
25' Lt.	10.1	371.2
13' Lt.	7.6	373.7
8' Lt. - Edge Pav.	764	373.69
2' on "	748	373.87
8' Pt. - Edge Pav.	757	373.78
10' Pt.	7.3	374.0

"D Lini"

381.35

25' Pt	8.0	373.3
40' Pt	8.1	373.2
58' Pt	6.4	374.9
83' Pt	9.7	371.6
85' Pt	13.0	368.3
100' Pt	19.3	362.0

404+0

100' Pt	17.0	364.3
80' Pt	7.9	373.4
50' Pt	7.0	374.3
25' Pt	8.5	372.8
10' Pt	8.1	373.2
8' Pt - Edge Pnt	8.30	373.05
1/2 on "	8.20	373.15
8' Lt - Edge Pnt	8.33	373.02
10' Lt	7.9	373.4
25' Lt	10.4	370.9
60' Lt	12.2	369.1
100' Lt	14.1	367.2

404+50

100' Lt	15.5	365.8
60' Lt	13.2	368.1
25' Lt	11.4	369.9
15' Lt	9.9	371.4
8' Lt - Edge Pnt	9.82	371.53
1/2 on "	9.70	371.65

381.35

18

8' Pt	9.78	371.57
10' Pt	9.6	371.7
25' Pt	8.4	372.7
60' Pt	7.7	373.6
80' Pt	7.8	373.5
100' Pt	10.8	370.5

405+0

100' Pt	8.9	372.4
75' Pt	7.2	373.1
40' Pt	8.4	372.9
25' Pt	8.6	372.7
20' Pt	9.3	372.0
15' Pt	11.4	369.9
8' Pt - Edge Pnt	11.28	370.07
1/2 on "	11.20	370.15
8' Lt - Edge "	11.32	370.03
10' Lt	12.1	370.2
20' Lt	11.8	369.5
25' Lt	12.8	368.5
60' Lt	14.8	366.5
100' Lt	15.7	365.6

405+50

100' Lt	17.8	363.5
60' Lt	16.0	365.3
25' Lt	14.2	367.1
10' Lt	12.4	368.9

371.35

8' Lt - Edge Par	12.73	368.62
2 on "	12.63	368.72
8' Pt - Edge	12.71	368.59
15' Pt	12.5	368.8
25' Pt	10.4	370.9
60' Pt	9.0	372.3
100' Pt	8.9	372.4
TP	5.63	374.49

406+0

100' Pt	4.0	370.5
80' Pt	3.2	371.3
55' Pt	2.9	370.6
25' Pt	4.9	369.6
17' Pt	5.5	369.0
15' Pt	7.3	367.2
8' Pt - Edge Par	7.32	367.17
2 on "	7.21	367.28
8' Lt - Edge	7.32	367.17
25' Lt	7.7	366.8
60' Lt	10.0	364.5
100' Lt	11.9	362.6

406+50

100' Lt	11.6	362.9
60' Lt	10.2	364.3
25' Lt	8.0	366.5
10' Lt	8.4	366.1

374.49

8' Lt - Edge Par	8.77	365.72
2 on "	8.67	365.82
8' Pt - Edge	8.80	365.69
15' Pt	8.2	365.7
17' Pt	7.2	367.3
25' Pt	6.3	368.2
60' Pt	5.2	369.3
100' Pt	5.1	369.4

407+0

100' Pt	5.9	368.6
65' Pt	5.1	369.4
25' Pt	7.0	367.5
15' Pt	10.3	364.2
8' Pt - Edge Par	10.31	364.18
2 on "	10.30	364.29
8' Lt - Edge	10.33	364.17
15' Lt	10.4	364.1
17' Lt	9.4	365.1
25' Lt	9.3	365.2
60' Lt	10.6	363.9
100' Lt	12.5	362.0

407+50

100' Lt	13.5	361.0
60' Lt	11.9	362.6
25' Lt	10.7	363.8
15' Lt	12.0	362.5

6-21-80

19

"D Line"

374.49

8' Lt - Edge Pav	11.92	362.57
1/2 00 "	11.72	362.77
8' Rt - Edge "	11.83	362.66
15' Rt	12.2	362.3
20' Rt	8.2	366.3
25' Rt	8.0	366.5
60' Rt	6.5	368.0
85' Rt	7.4	367.1
100' Rt	10.5	364.0
407+75		
100' Rt	13.8	360.7
75' Rt	11.3	363.2
50' Rt	9.8	364.7
25' Rt	9.8	364.7
21' Rt	10.4	364.1
16' Rt	12.8	361.7
8' Rt - Edge Pav	12.63	361.86
1/2 00 "	12.51	361.95
8' Rt - Edge "	12.70	361.79
TP 6.19	367.84	12.84
361.65		
15' Lt	6.2	361.6
20' Lt	5.2	362.6
25' Lt	5.5	362.3
50' Lt	7.0	360.8
100' Lt	11.0	356.8

408+0

367.84

20

100' Lt	11.2	356.6
50' Lt	10.4	357.4
25' Lt	8.3	359.5
12' Lt	6.6	361.2
8' Lt - Edge Pav	6.86	360.98
1/2 00 "	6.76	361.08
8' Rt - Edge "	6.83	361.01
17' Rt	7.1	360.7
18' Rt	5.9	361.9
25' Rt	5.9	361.9
68' Rt	8.7	359.1
70' Rt	11.1	356.7
100' Rt	12.1	355.7
408+50		
100' Rt	21.0	346.8
76' Rt	20.5	347.3
51' Rt	9.9	357.9
25' Rt	8.8	359.0
8' Rt - Edge Pav	8.73	359.11
1/2 00 "	8.63	359.21
8' Lt - Edge "	8.79	359.05
12' Lt	8.2	359.4
25' Lt	10.6	357.2
60' Lt	11.7	356.1
100' Lt	13.0	354.9

409+0

116
 Transit
 362.84
 11.26
 352.58
 352.24

36784

100' Lt	15.6	352.2
60' Lt	13.7	354.1
25' Lt	12.1	355.7
8' Lt = Edge Par	10.74	357.10
2 on "	10.57	357.27
8' Pt = Edge "	10.70	357.1
25' Pt	10.9	356.9
43' Pt	11.2	356.6
46' Pt	14.1	353.7
71' Pt	24.6	343.2
100' Pt	27.2	340.6
409+44.97 = PC Pt		337.25
100' Pt	31.6	336.2
70' Pt	28.7	339.1
50' Pt	23.0	344.8
30' Pt	13.2	354.6
25' Pt	12.9	354.9
8' Pt = Edge Par	12.47	355.37
2 on "	12.41	355.43
8' Lt = Edge "	12.53	355.31
25' Lt	13.5	354.3
60' Lt	15.0	352.8
100' Lt	16.6	351.2
410.70		333.90
100' Lt	18.6	349.2
60	16.8	351.0

36784

21

25' Lt	15.7	352.1	
TP 190	357.01	12.73	355.11
9' Lt. Edge Par	3.83	353.18	
2 on "	3.76	353.25	
7' Pt = Edge "	3.87	353.14	
14' Pt	3.6	353.4	
16' Pt	2.8	354.2	
25' Pt	3.2	353.8	
34' Pt	3.6	353.4	
35' Pt	5.9	351.1	
50' Pt	13.1	343.9	
70' Pt	18.7	338.3	
100' Pt	22.6	334.4	
110' Pt	26.2	330.8	
1104.50		330.90	
100' Pt	26.0	331.0	
90' Pt	21.5	335.5	
60' Pt	16.9	340.1	
53' Pt	9.9	347.1	
45' Pt	7.1	349.9	
40' Pt	4.2	352.8	
25' Pt	3.8	353.2	
18' Pt	5.7	351.3	
18' Pt = Edge Par	5.69	351.32	
2 on "	5.58	351.43	
11.2' Lt = Edge "	5.69	351.32	
25' Lt	6.1	350.9	

"Dhimp"

357.01

50' Lt	7.0	350.0
75' Lt	9.3	347.7
	411.70	
75' Lt	12.2	344.8 ^{327.90}
50' Lt	10.7	346.3
27' Lt	9.2	347.8
25' Lt	8.6	348.4 ^{Jravel}
20' Lt	7.1	349.9 ^{344.11}
14.7' Lt - Edge Pav	7.26	349.75 ^{331.11}
1/2 on "	7.16	349.85 ^{332.89}
1.3' Pt - Edge	7.18	349.83
8' Pt	7.0	350.0
15' Pt.	5.5	351.5
25' Pt.	5.2	351.8
45' Pt.	5.5	351.5
50' Pt	9.2	347.8
73' Pt.	18.2	338.8
100' Pt.	24.5	334.5
130' Pt	28.9	328.1
	411.50	324.9 ^{324.90}
140' Pt.	32.1	324.9
133' Pt	28.2	328.8
110' Pt.	22.5	334.5
75' Pt	18.3	338.7
60' Pt.	16.0	341.0
40' Pt	8.9	348.1

357.01

22

25' Pt	9.2	347.8
15' Pt	10.5	346.5
5' Pt	8.1	348.9
1/2	7.9	349.1
6.8' Lt - Edge Pav	8.41	348.60
19.8' Lt - " "	8.61	348.40
25' Lt	8.4	348.6
33' Lt	8.3	344.7
60' Lt	13.3	343.7
75' Lt	14.0	343.0
	412.70	321.90
75' Lt	16.4	340.6
38' Lt	14.1	342.9
31' Lt	9.8	347.2
26.6' Lt - Edge Pav	10.13	346.88
10.1' Lt - Edge Pav	9.71	347.30
4' Lt.	9.3	347.7
1/2	11.3	345.7
4' Pt	12.5	344.5
25' Pt	12.1	345.9
45' Pt	12.7	344.3
75' Pt	17.7	339.3
TP 6.50 350.97	12.56	344.75
105' Pt	14.3	336.7
130' Pt.	21.0	330.0
150' Pt	26.2	324.8

350.97

155' Pt		29.1	321.9
	412+35		
155' Pt		31.2	319.8
125' Pt		19.8	331.2
100' Pt		15.6	335.4
75' Pt		10.6	340.4
55' Pt		6.6	344.4
25' Pt		6.7	344.3
1/2		8.2	342.8
9' Lt		3.9	347.1
18' Lt = Edge Paving		4.7	346.80
34' Lt = " "		4.69	346.28
39' Lt		4.0	347.0
45' Lt		9.3	341.7
50' Lt		9.8	341.2
	412+50		318.90
50' Lt		9.1	341.9
39' Lt		5.0	346.0
34.5' Lt = Edge Pav		5.20	345.91
18.5' Lt = " "		4.50	346.47
13' Lt		4.2	346.8
5' Lt		7.8	343.2
1/2		7.7	343.3
15' Pt		6.6	344.4
25' Pt		6.6	344.4
70' Pt		6.3	344.7

350.97

23

83' Pt		10.9	340.1
102' Pt		25.4	325.6
115' Pt		26.3	324.7
140' Pt		27.0	324.0
142' Pt		32.1	318.9
	412+75		317.40
108' Pt		33.5	317.5
95' Pt		26.1	324.9
85' Pt		20.0	331.0
80' Pt		7.1	343.9
65' Pt		6.0	345.0
45' Pt		7.0	344.0
29' Pt		6.5	344.5
25' Pt		7.4	343.6
1/2		8.6	342.4
10' Lt		8.6	342.4
18' Lt		4.7	346.3
24.2' Lt = Edge Paving		4.82	346.15
40.2' Lt = " "		5.71	345.26
48' Lt		5.3	345.7
60' Lt		9.9	341.1
	412+0		315.9
62' Lt		9.2	341.8
52' Lt		5.9	345.1
47.2' Lt = Edge Pav		6.25	344.72
31.2' Lt = " "		5.35	345.62

D Line

350.97

25 Lt	4.9	346.1
15 Lt	8.5	342.5
1/2	8.3	342.7
25 Pt	7.5	343.5
63 Pt	5.2	345.8
73 Pt	7.3	343.7
77 Pt	16.5	334.5
90 Pt	25.9	325.1
105 Pt	36.2	314.8
413 + 25		
115 Pt	38.0	313.0
95 Pt	28.1	327.4
80 Pt	5.7	345.3
65 Pt	2.6	348.4
60 Pt	4.6	346.4
30 Pt	5.1	345.6
25 Pt	6.6	344.4
1/2	7.7	343.3
20 Lt	7.7	343.3
33 Lt	5.1	345.9
37.8 Lt - Edge Pairing	5.71	345.26
53.8 Lt	6.63	344.34
59 Lt	6.1	344.9
68 Lt	9.4	341.6
TP	86.9	344.32

413 + 50

353.01

344.32

353.01

6.27.30
24

64.8 Lt - Edge Pairing	9.00	344.0	312.90
47.8 Lt - Edge	8.14	344.87	
45 Lt	7.4	345.6	
30 Lt	9.3	343.7	
25 Lt	9.2	343.8	
1/2	9.5	343.5	
15 Pt	8.6	344.4	
25 Pt	7.3	345.7	
58 Pt	6.7	346.3	Level 11.2
65 Pt	4.7	348.3	353.01
76 Pt	8.4	344.6	12.90
78 Pt	13.3	339.7	340.26
100 Pt	29.7	323.3	340.37
115 Pt	42.4	310.6	12.71
414 + 0			
105 Pt	44.4	308.6	340.85
87 Pt	30.6	322.4	327.81
67 Pt	12.3	340.7	325.61
51 Pt	5.1	347.9	12.91
50 Pt	6.6	346.4	016.63
25 Pt	6.7	346.3	2.00
1/2	8.3	344.7	318.63
25 Lt	9.8	343.2	0.33
50 Lt	9.0	344.0	318.38
55 Lt	8.1	344.9	12.76
65 Lt	7.9	345.1	305.91

309.90

Transit
310.87
1.25
327.81
325.61
12.91
016.63
2.00
318.63
0.33
318.38
12.76
305.91
0.73
306.64

414.50

6.5 Lt	9.9	343.1
2.5 Lt	7.8	345.2
2	7.3	345.7
1.5 Pt	7.0	346.0
2.5 Pt	5.5	347.5
3.5 Pt	5.1	347.9
5.0 Pt	5.7	347.3
5.0 Pt	7.0	346.0
6.2 Pt	13.7	339.3
10.0 Pt	42.9	310.1
10.5 Pt	47.4	305.6

415.70

11.2 Pt	50.4	302.6
9.5 Pt	40.3	312.7
7.0 Pt	21.5	331.5
5.0 Pt	7.1	345.9
2.5 Pt	5.5	347.5
2	5.9	347.1
2.5 Lt	6.1	346.9
5.0 Lt	7.5	345.5
7.5 Lt	8.0	345.0

415.50

8.0 Lt	6.9	346.1
5.0 Lt	6.8	346.2
2.5 Lt	6.0	347.0

2	6.2	346.8
2.5 Pt	6.0	347.0
3.8 Pt	11.8	341.2
5.0 Pt	14.3	338.7
6.9 Pt	26.6	326.4
10.4 Pt	53.1	299.9
TP	6.95 353.14	6.82 346.19

416.0

9.0 Pt	56.2	296.9
8.0 Pt	46.5	306.6
5.0 Pt	21.7	331.4
3.9 Pt	10.9	342.2
2.5 Pt	7.8	345.3
2	6.3	346.8
2.5 Lt	6.2	346.9
6.0 Lt	7.0	346.1
8.0 Lt	7.7	345.4

416.50

8.5 Lt	8.9	344.2
5.0 Lt	7.5	345.6
2.5 Lt	7.6	345.5
2	7.5	345.6
2.0 Pt	9.5	343.6
2.5 Pt	12.4	340.7
5.0 Pt	32.0	321.1
6.0 Pt	37.5	315.6

297.99

4.001 Pt
338.100

Transit
306.645

294.90

D Line

353.14

90° Pt	58.2	294.9
		291.9°
417+0	65.1	288.0
95° Pt	42.3	310.8
70° Pt	31.2	321.9
50° Pt	11.0	342.1
25° Pt	6.8	346.3
15° Pt	7.1	346.0
2	8.5	344.6
25 Lt	9.2	343.9
50 Lt	10.9	342.2
100 Lt	12.8	340.3
50 Lt	10.1	343.0
25 Lt	7.7	345.4
2	5.4	347.7
16 Pt	4.9	348.8
25 Pt	19.7	333.4
50 Pt	34.8	318.3
65 Pt	42.0	311.1
85 Pt	53.8	299.3
110 Pt	64.5	288.6
418+0	69.7	283.4
135 Pt	54.4	298.7
90 Pt	43.8	309.3

353.14

26

50° Pt	21.6	331.5
30° Pt	13.9	339.2
25° Pt	9.0	344.1
2	9.2	343.9
10 Lt	7.1	346.0
25 Lt	7.7	345.4
50 Lt	9.8	343.3
100 Lt	14.5	338.6
418+25		
100 Lt	14.6	338.5
50 Lt	10.4	342.7
38 Lt	14.3	338.8
25 Lt	19.4	333.7
12 Lt	25.0	328.1
2	27.3	325.8
25° Pt	25.3	327.8
33° Pt	25.0	328.1
50° Pt	31.6	321.5
70° Pt	43.6	309.5
100° Pt	58.3	294.8
130° Pt	70.7	282.4
418+50		
115° Pt	70.2	282.8
85° Pt	49.3	303.8
70° Pt	44.9	308.2
50° Pt	40.6	312.5

353.14

25' Pt	42.0	311.1
15' Pt	44.4	308.7
8	40.9	312.2
25' Lt	30.6	322.5
50' Lt	20.3	332.8
59' Lt	13.0	341.1
90' Lt	14.4	338.7
419+0		279.90
90' Lt	15.6	337.5
75' Lt	16.6	336.5
50' Lt	30.6	322.5
25' Lt	47.1	306.0
8	57.9	295.2
25' Pt	68.0	285.1
37' Pt	73.2	279.9
TP ^{Jan} 0.87	341.52	12.49
419+50		340.65
		418.70
		276.90
50' Pt	66.0	275.5
25' Pt	52.3	289.2
8	41.1	300.4
25' Lt	39.1	312.4
50' Lt	16.6	324.9
67' Lt	7.7	333.8
94' Lt	9.3	332.2
115' Lt	17.4	324.1
TP 5.25	332.80	12.97
		338.55

333.80

Sunday
June 30
27

419+75		275.40
110' Lt	17.3	316.5
82' Lt	2.6	331.2
70' Lt	2.7	331.1
50' Lt	14.4	319.4
25' Lt	27.2	306.6
8	38.9	294.9
25' Pt	52.8	281.0
33' Pt	59.0	274.8
420+0	373.90	
50' Pt	72.4	261.4
24' Pt	61.7	272.1
8	46.6	287.2
25' Lt	31.9	291.9
50' Lt	16.1	317.7
72' Lt	3.3	330.5
100' Lt	17.6	316.2
420+25		
90' Lt	17.3	316.5
70' Lt	6.0	327.8
50' Lt	18.6	315.2
25' Lt	34.4	299.4
8' Lt	42.7	290.1
8	56.0	277.8
10' Pt	54.0	279.8
25' Pt	44.8	289.0
		275.40
		325.54
		TP 325.56
		326.97
		313.21
		317.38
		Transit
		273.87
		273.34
		275.78
		273.33
		TP 273.39
		273.91
		281.56
		275.01

D 2101

333.80

40' Rt	46.8	287.0
52' Rt	51.7	282.1
60' Rt	58.1	275.4
74' Rt	53.8	280.0
90' Rt	64.1	269.7
110' Rt	64.0	269.8
127' Rt	56.7	277.1
150' Rt	57.2	276.6
170' Rt	57.2	276.6
185' Rt	65.7	268.1
120-150		
175' Rt	65.9	267.9
150' Rt	52.9	280.9
115' Rt	58.3	275.5
80' Rt	46.3	287.5
65' Rt	49.6	284.2
50' Rt	42.5	291.3
35' Rt	49.4	284.4
25' Rt	40.0	288.8
15' Rt	39.0	294.8
♀	37.1	296.7
10' Lt	39.4	294.4
15' Lt	49.2	284.6
25' Lt	40.0	293.8
50' Lt	19.5	316.3
70' Lt	5.4	328.4

333.80

28

90' Lt	14.2	317.6
120+179.42		
100' Lt	16.4	317.4
81'	48.8	328.92
80' Lt	4.9	328.9
74' Lt	4.6	329.2
67' Lt	19.1	314.4
50' Lt	30.2	303.6
35' Lt	33.9	299.9
25' Lt	34.4	299.4
17' Lt	35.0	298.8
12' Lt	20.4	313.4
♀	28.22	309.98
25' Rt	34.1	299.7
40' Rt	37.9	295.9
50' Rt	30.8	303.0
85' Rt	33.0	300.8
105' Rt	40.8	293.0
112' Rt	26.1	297.2
170' Rt	64.4	269.4
121+0		
183' Rt	67.0	266.8
150' Rt	56.6	277.2
120' Rt	39.9	293.9
85' Rt	20.8	313.0
70' Rt	20.0	313.8

50' Pt	25.1	308.7
40' Pt	27.0	306.8
25' Pt	22.9	310.9
2	16.5	317.3
10' Lt	13.0	320.8
13' Lt	25.0	308.8
25' Lt	24.4	309.4
45' Lt	18.6	315.2
55' Lt	8.5	325.3
63' Lt	4.6	329.2
78' Lt	5.3	327.5
90' Lt	11.5	322.3
100' Lt	18.0	315.8
78' Lt	5.2	328.6
50' Lt	5.1	328.7
25' Lt	7.0	326.8
2	10.3	323.5
25' Pt	16.0	317.8
50' Pt	21.2	312.6
90' Pt	30.7	303.1
110' Pt	35.4	298.4
145' Pt	55.2	278.6
185' Pt	68.0	265.8
210' Pt	69.1	264.7

421+25

See D. King 1401 page 32

421+50

264.7

165' Pt	49.2	284.6	Level 182
110' Pt	33.5	300.3	311.31T
85' Pt	25.2	308.6	215-
50' Pt	17.2	316.6	305.3
25' Pt	11.3	322.5	307.28T
2	7.7	326.1	
25' Lt	5.2	328.6	
50' Lt	4.2	329.6	
85' Lt	6.3	327.5	
100' Lt	15.5	318.3	
100' Lt	17.1	316.7	422+0 = P.C. D. King 26190
80' Lt	5.7	328.1	
50' Lt	3.2	330.6	Transit
25' Lt	2.5	331.3	38.11T
2	2.2	331.6	12.9T
TP 889 341.16	1.53	332.7	20.85
25' Pt	8.6	332.5	16.945T
50' Pt	7.5	333.6	11.05
80' Pt	9.8	331.3	25.55
125' Pt	20.7	320.4	39.12T
175' Pt	38.6	302.5	
215' Pt	59.5	281.6	
245' Pt	74.8	266.3	
270' Pt	91.6	249.5	

422+50

25390

D Lint

34116

252' PL	841	257.0
220' PL	618	279.3
185' PL	411	300.0
150' PL	180	323.1
115' PL	10.6	330.5
90' PL	5.8	335.3
50' PL	7.1	334.0
25' PL	7.6	333.5
2	8.3	332.8
25' Lt	9.5	331.6
60' Lt	13.0	328.1
75' Lt	21.2	319.9
90' Lt	29.4	311.7

42370

110' Lt	301	311.0
99' Lt	134	327.7
50' Lt	11.7	329.4
25' Lt	10.9	330.2
2	9.7	331.4
25' PL	8.6	331.5
50' PL	9.5	331.6
85' PL	13.2	327.9
110' PL	18.8	322.3
135' PL	26.3	314.8
170' PL	40.6	300.5
200' PL	53.6	287.5

25590

34116

219' PL	612	279.9
250' PL	93.9	247.2
255' PL	95.0	246.1
220' PL	68.3	272.8
205' PL	60.4	280.7
180' PL	47.6	294.5
150' PL	34.0	307.1
130' PL	26.3	314.8
100' PL	16.8	324.3
75' PL	11.9	329.2
50' PL	10.2	330.9
25' PL	10.7	330.4
2	13.0	328.1
25' Lt	14.3	326.8
50' Lt	14.0	327.1
100' Lt	17.3	323.8
130' Lt	29.5	311.6
TP	32.5	333.92
125' Lt	10.49	330.67

42370

TP

325 333.92 10.49

42370

252.30	231	310.8
19.5	19.5	314.4
19.5	19.5	314.4
21.0	21.0	312.9
19.6	19.6	314.3
11.2	11.2	322.7

Monday
June 30
1930Level 1's
308.68
253
#3061 5.71
153.8
424.35Trawl
267.23
9.70
257.53
257.53
257.53
#257 43.02
355.91
42310on this
55' PL 42370

333.92

15° Pt	11.0	322.9
25° Pt	8.7	325.2
40° Pt	6.3	327.6
50° Pt	6.8	327.1
90° Pt	8.7	325.2
130° Pt	22.6	311.3
160° Pt	39.3	294.6
190° Pt	51.7	282.2
225° Pt	66.6	267.3
260° Pt	77.6	256.3
270° Pt	82.6	251.3

424 + 0

270° Pt	85.9	248.0
245° Pt	79.0	254.9
220° Pt	70.7	263.2
180° Pt	59.1	274.8
150° Pt	47.0	286.9
120° Pt	31.9	302.0
100° Pt	35.2	298.7
50° Pt	36.2	297.7
25° Pt	30.6	303.3
10° Pt	35.3	298.6
±	36.8	297.1

TP	0.61	321.86	1267	321.25
R	0.45	309.59	1272	309.41
TP	0.60	297.30	1289	296.70

297.30

31

±	0.1	297.2
6° Lt	0.8	296.5
25° Lt	16.0	281.3
50° Lt	7.0	290.3
70° Lt	9.1	288.2
80° Lt	15.1	281.7
100° Lt	11.0	286.3
120° Lt	10.5	286.8
TP	0.28	285.22

424 + 25

120° Lt	18.2	267.1
110° Lt	16.2	269.1
95° Lt	34.3	251.0
80° Lt	18.5	266.8
63° Lt	25.9	259.4
50° Lt	23.0	262.3
42° Lt	25.5	259.8
25° Lt	15.4	269.9
15° Lt	6.5	278.8
±	2.9	282.4
25° Pt	+2.6	287.9
40° Pt	+2.9	288.2
50° Pt	-2.0	283.3
70° Pt	+0.4	285.7
110° Pt	+9.9	295.2
125° Pt	+9.3	294.6

Transit
306.15
132
307.25
122
296.17
140
302.57
122
299.23-TP
290.91
55.4
TP 285.65
Level/HI
285.33

Transit

257.43
259.307
12.58
246.83
247.78

D List

285.33

155' Pt	-81	277.2
185' Pt	252	260.1
245' Pt	42.5	242.8
	424.50	246.90
200' Pt	41.2	244.1
180' Pt	32.5	252.8
140' Pt	12.0	273.3
136' Pt	17.2	268.1
122' Pt	16.6	268.7
110' Pt	70.1	285.9
100' Pt	71.3	286.6
90' Pt	-3.9	281.4
70' Pt	-10.8	274.5
50' Pt	18.1	266.5
25' Pt	15.2	270.1
20' Pt	5.8	279.5
2	9.3	276.0
25' Lt	41.1	263.7
50' Lt	39.2	246.1
61' Lt	44.3	241.0
100' Lt	44.6	240.7
130' Lt	35.5	249.8
135' Lt	38.0	247.3
	424.75	245.00
135' Lt	53.3	232.0
100' Lt	61.9	223.4

285.33

32

65' Lt	45.8	239.5	Transit 1
50' Lt	40.1	244.7	805.577
45' Lt	31.2	254.1	1276
32' Lt	30.9	254.4	2898.3
27' Lt	20.3	265.0	897
25' Lt	18.5	266.8	2907.97
9' Lt	13.8	271.5	T 230.15 20' Pt
2' Lt	16.0	269.3	13.02 11' Pt
2	33.5	251.8	243.09
14' Pt	29.3	256.0	
18' Pt	20.7	264.6	
25' Pt	33.5	251.8	Transit 2
35' Pt	40.5	244.8	2467.2
45' Pt	31.0	254.3	1.13
50' Pt	24.3	261.0	247.76
70' Pt	14.0	271.3	246.33
TP	9.48	282.55	247.13
100' Pt	5.2	277.3	
119' Pt	5.0	277.5	
130' Pt	13.0	269.5	
145' Pt	19.0	263.5	
170' Pt	27.5	255.0	
210' Pt	45.3	237.2	
TP	9.08	282.15	9.48
			273.07
Start	435.0	241.1	on tail
193' Pt	41.0	241.1	55' Pt 127.19

282.15

July 1-1938

14.5 Pt		24.0	258.1
12.0 Pt		18.9	268.2
8.0 Pt		5.3	276.8
5.0 Pt		14.1	267.5
2.5 Pt		41.5	240.6
2		11.8	235.3
6 Lt		47.5	234.6
3.0 Lt		42.5	239.6
2.5 Lt		42.6	239.5
4.0 Lt		47.0	233.1
5.0 Lt		46.7	235.4
6.5 Lt		46.7	235.4
	425+25		244.4
7.0 Lt		55.0	227.1
5.0 Lt		62.7	219.4
2.4 Lt		65.0	217.1
2		63.0	219.1
2.0 Pt		60.9	221.2
2.4 Pt		48.9	233.2
TP	1.04	270.34	269.30
5.0 Pt		16.4	253.9
7.0 Pt		32.6	237.7
9.0 Pt		11.0	259.3
10.5 Pt		13.3	257.0
11.7 Pt		1.9	268.4
15.5 Pt		17.7	252.6

270.39

33

21.0 Pt		30.1	240.2	Transt. N. 1
	425+50	240.90		BM 230.65 12.92 243.57
21.0 Pt		30.2	240.1	
16.0 Pt		32.5	247.8	
13.5 Pt		10.2	260.1	
TP	0.14	257.81	12.67	257.67
BM		3.51	255.25	SPK. Rock 123 230.65 R.F. Sta 231.53 425+45 12.64 219.87 120.47
10.5 Pt		4.8	253.0	
8.0 Pt		12.0	245.8	
5.0 Pt		16.6	241.2	
3.5 Pt		39.2	218.6	
2.4 Pt		39.2	218.6	Transt. N. 2
2		40.6	217.2	
2.4 Lt		45.6	212.2	
5.0 Lt		49.9	207.9	
7.5 Lt		52.3	205.5	
10.0 Lt		43.4	215.4	
	425+75	237.40		
11.0 Lt		51.5	201.3	
9.7 Lt		59.6	198.2	
7.3 Lt		57.9	199.9	
6.2 Lt		50.3	207.5	
5.0 Lt		45.1	212.7	
2.4 Lt		36.8	221.0	
2		39.1	228.7	
1.0 Pt		30.7	227.1	

"D Line"

257.11

24' Pt		232	234.6	
35' Pt		18.1	239.7	
46' Pt		28.0	229.8	
50' Pt		19.7	238.1	
80' Pt		12.2	245.6	
105' Pt		8.6	249.2	
137' Pt		11.9	245.9	
156' Pt		19.8	238.0	
TP	2.47	247.49	12.79	245.02

426.10

237.90

BM		10.20	237.89
100' Pt		12.9	234.6
75' Pt		8.0	239.5
50' Pt		5.6	241.9
35' Pt		6.7	240.8
24' Pt		10.0	237.5

TP	0.34	235.47	12.36	235.13
----	------	--------	-------	--------

BM		4.93	230.54
♀		7.3	228.2
24' Lt		17.8	217.7
50' Lt		31.2	204.3
70' Lt		39.4	196.1
110' Lt		45.3	190.2

426.10

234.90

110' Lt		50.2	185.3
85' Lt		46.7	188.8

285.47

34

50' Lt		34.5	201.0	
24' Lt		25.0	210.5	
♀		17.8	217.7	
24' Pt		20.0	215.5	
TP	0.32	223.71	12.08	223.39
50' Pt		11.7	212.0	
65' Pt		14.0	209.7	
80' Pt		12.0	211.7	
TP	0.19	211.54	12.36	211.35

427.10

231.90

TP	8.09	207.10	12.53	199.01
90' Pt		13.1	194.0	
70' Pt		14.1	193.0	
50' Pt		18.4	188.7	
40' Pt		18.3	188.8	
24' Pt		15.4	191.7	
♀		5.0	202.1	
24' Lt		3.0	204.1	

TP	0.30	195.21	12.19	194.91
50' Lt		2.0	193.2	
85' Lt		17.5	177.7	
125' Lt		20.5	174.7	
TP	0.41	182.79	12.83	182.38

427.10

228.90

135' Lt		15.0	167.8
100' Lt		15.6	167.2

Transit No 1

220.477

11.52

207.95

208.35

208.317

12.22

196.09 = 220.477

195.97

182.79

75 Lt	150	167.8
50 Lt	98	173.0
24 Lt	54	177.4
2	64	176.4
24 Pt	147	168.1
50 Pt	86	174.2
75 Pt	94	173.4
95 Pt	70	175.8
110 Pt	20	180.8

427+75

120 Pt	91	173.7
100 Pt	54	177.4
73 Pt	130	169.8
50 Pt	150	167.8
24 Pt	185	164.3
2	183	164.5
24 Lt	138	169.0
TP	240	172.46
50 Lt	92	163.2
90 Lt	95	162.9
125 Lt	94	163.0
150 Lt	90	163.4

428+0

150 Lt	152	157.2
125 Lt	125	158.9
100 Lt	129	159.5

172.46

75 Lt	140	158.4
50 Lt	15.9	156.5
24 Lt	17.0	155.4
2	146	157.8
24 Pt	116	160.8
50 Pt	88	163.6
100 Pt	3.4	169.0
120 Pt	1.6	170.8
TP	0.15	163.99

Start

163.99

428+50

130 Pt	11.3	175.3
115 Pt	43.0	167.0
100 Pt	-1.8	162.2
75 Pt	5.8	158.2
50 Pt	8.1	155.9
24 Pt	10.5	153.5
2	12.3	151.7
24 Lt	14.2	149.8
50 Lt	13.5	150.5
70 Lt	11.7	152.3
90 Lt	13.0	151.0
125 Lt	8.5	155.5
150 Lt	6.9	157.1

429+0

150 Lt	9.6	154.4
125 Lt	11.4	152.6

 7-2-30
 35
 129155
 147487
 140007
 158111

 50 Pt
 50 Pt
 50 Pt

219.90

163.99

100' Lt		13.0	151.0
70' Lt		17.0	147.0
50' Lt		15.5	148.5
24' Lt		17.3	146.7
2		18.6	145.4
24' Pt		17.1	146.9
50' Pt		15.1	148.9
85' Pt		11.5	152.5
120' Pt		11.0	165.0
TP	5.80	157.25	125.4
	4291.50		151.45
150' Pt		3.3	153.9
125' Pt		6.4	150.8
100' Pt		9.8	147.4
75' Pt		12.7	144.4
50' Pt		14.6	142.6
24' Pt		16.0	141.2
2		16.2	141.0
15' Lt		17.5	139.7
24' Lt		15.2	142.0
50' Lt		14.1	143.1
75' Lt		11.4	145.8
100' Lt		9.2	148.0
125' Lt		8.9	148.3
150' Lt		4.9	152.3

43070

21390

157.25

36

150' Lt		3.7	153.5
125' Lt		7.3	149.9
100' Lt		10.8	146.4
75' Lt		13.3	143.9
50' Lt		15.9	141.3
24' Lt		18.7	138.4
2		21.4	135.8
24' Pt		22.4	133.8
50' Pt		20.1	137.1
70' Pt		18.2	139.0
100' Pt		15.2	142.0
130' Pt		10.9	146.3
150' Pt		7.2	150.0
BM		4.1	152.84
	4307.50		
150' Pt		17.5	139.7
125' Pt		20.8	136.4
100' Pt		24.6	132.6
80' Pt		27.6	129.6
50' Pt		27.2	130.0
24' Pt		26.0	131.2
2		23.5	133.7
24' Lt		20.0	137.2
50' Lt		17.3	139.9
85' Lt		13.2	144.0
110' Lt		1.0	156.2

Transit
157.25
137.25
144.30
145.27

No. 169. P. 100
T. 100
100 21 429.125
31090

157.25

125 Lt	+5.8	163.0
430+75		209.4
120 Lt	1.2	156.0
105 Lt	7.4	149.8
75 Lt	11.3	145.9
50 Lt	16.9	140.3
24 Lt	19.4	137.8
2	22.8	134.4
24 Pt	26.7	130.5
50 Pt	28.7	129.5
65 Pt	30.0	127.2
90 Pt	29.0	128.2
120 Pt	23.1	134.1
150 Pt	21.8	135.4
165 Pt	19.6	137.6
431+0		207.9
185 Pt	26.4	130.8
150 Pt	29.8	127.4
125 Pt	32.7	124.5
110 Pt	33.9	123.3
70 Pt	31.9	125.3
50 Pt	30.0	127.2
24 Pt	26.7	130.5
2	22.7	134.5
24 Lt	18.5	138.7
50 Lt	14.0	143.2

37

157.25

75 Lt	9.9	147.3	17001
112 Lt	4.2	153.0	14531T
130 Lt	+1.8	159.0	11532
TP 1257	166.20	362	13372
	431+50	34.90	3621
124 Lt	9.4	156.8	13231T
90 Lt	11.1	155.1	
50 Lt	13.2	153.0	
24 Lt	17.4	148.8	
2	23.0	143.2	
24 Pt	31.0	135.2	
50 Pt	39.1	127.1	
100 Pt	45.2	121.0	
150 Pt	48.2	118.0	
175 Pt	49.4	116.8	
431+75			203.4
175 Pt	50.9	115.3	
150 Pt	49.6	116.6	
100 Pt	46.4	119.8	
90 Pt	45.9	120.3	
70 Pt	38.5	128.7	
50 Pt	33.0	133.2	
40 Pt	39.6	136.6	
24 Pt	21.2	145.0	
2	16.1	150.1	
24 Lt	13.3	152.9	

D Line

166.20

40 Lt	119	154.3
50 Lt	8.1	158.1
87 Lt	2.3	163.9
105 Lt	+19.0	176.2
43270		201.90
93 Lt	+10.0	176.2
72 Lt	-0.5	165.7
50 Lt	4.2	162.0
38 Lt	8.4	157.8
24 Lt	7.6	158.6
♀	8.9	157.3
24 Pt	14.4	151.8
50 Pt	25.6	140.6
85 Pt	43.7	122.5
150 Pt	57.0	115.2
175 Pt	52.5	113.7
432725		200.40
185 Pt	54.4	111.8
130 Pt	51.6	114.6
100 Pt	42.8	123.4
70 Pt	39.0	127.2
50 Pt	28.3	137.9
21 Pt	12.0	154.2
♀	0.0	166.2
24 Lt	2.3	163.9
45 Lt	3.3	162.9

38

166.20

TP	11.87	178.07	0.00	166.20	136.84
50 Lt			8.6	167.5	131.84
70 Lt			0.2	177.9	123.03
		432750	198.90		127.24
70 Lt			+3.5	174.4	22.02
50 Lt			11.8	166.3	135.66
24 Lt			11.2	166.9	126.33
♀			17.0	161.1	137.98
24 Pt			28.0	150.1	135.66
50 Pt			44.5	133.6	126.33
90 Pt			60.0	118.1	137.98
130 Pt			58.4	119.7	
150 Pt			63.5	114.6	
185 Pt			67.2	110.9	
		432775			199.40
175 Pt			60.4	117.7	
135 Pt			54.4	123.7	
115 Pt			45.8	132.3	
90 Pt			43.7	134.4	
50 Pt			36.5	141.6	
40 Pt			35.0	143.1	
30 Pt			38.5	139.6	
24 Pt			37.8	140.3	
15 Pt			36.7	141.4	
♀			27.2	150.9	
15 Lt			19.0	159.1	

D Line

178.07

24' Lt	16.3	161.8
40' Lt	6.9	171.2
50' Lt	5.0	173.1
75' Lt	+6.2	184.3

433±0

60' Lt	78.5	181.6
50' Lt	0.0	178.1
34' Lt	13.4	164.7
1/2	21.0	157.1
16' Rt	27.5	150.6
24' Rt	28.3	149.8
50' Rt	30.0	148.1
85' Rt	34.5	143.6
105' Rt	37.8	140.3
135' Rt	51.4	126.7
150' Rt	53.6	124.5
BM	0.91	177.6

1959

56' Lt
 432±60
 177.12
 Book 1401 Page 26
 177.12

See 1401 433±0 to 472711.61 = EC.

B.M.s Torrey Pines Grade "D" Line

7/23/30
Miller
of Hub
San Bernardino

B.M. #1
B.P. in 2" Iron Pipe 45' At. of Sta. 401+45 "D" Line = B.M. #1 Cliff Rout. 58' Rt. of Sta 1+78

383.31
383.36

Fission "D" Line B. 1399 P. 15.
Cliff Rout.

B.M. #2

B.M. C.T. Pavmt 3.09 358.51 355.42
Set B.M. 2" x 2" Redwood Hub 50' to Lt. of Sta 409+44 22 PC 5.61 352.90

Sta 409+44 22 PC
B 1399 P 12

Stub B.M. 7.84 185.00
Replaced with B.M. Redwood Hub 7.84 177.16

B.M. #3

B.M. Nail Pole 4.02 348.34 344.32
Set B.M. 2" x 2" Redwood Hub 70' to Lt. of Sta 414+38 23 5.18 343.16

23' to Lt. of Sta 414+00

Hub 50' Lt. of Sta 440+00 155.87

B.M. #4

B.M. Stub 2.29 342.94 340.65
Replaced with 2" x 2" Redwood Hub 2.29 340.65

60' Lt. of Sta 418+70
60' Lt. of Sta 418+70

Hub 4
Sta 444+20 22 PC 5.59 129.12
Set B.M. Nails in Torrey Pine 53' to Lt. of Sta 444+35 0.12 129.00

B.M. #5

Redwood Hub 330.67

53' to At. of Sta. 423+47

Hub Sta 454+52 4 P.O.T. 10.35 95.53 85.18
Set B.M. 7 1/2" x 1 1/2" Hub 50' to Lt. of Sta 454+52 0.75 94.78

B.M. #6

SPK. in Rock 273.07

55' to Rt. of Sta 424+90

Hub Sta. 441+30 22 9.39 45.75 36.36
Set B.M. 2" x 2" Redwood Hub 50' Lt. of Sta 441+30 22 2.04 43.71

B.M. #7

Spk. in Rock 257.67

123' to Rt. of Sta 425+45

#15
B.M. S. of Sorento Bridge 48' to Lt. of Sta 484+82 Torrey Pines "D" Line
2" I. Pipe B.P. Cliff Rout Sta 92+00 EL. 6.76

B.M. #8

B.M. Stub 7.22 171.06 163.84
Set B.M. 2 1/2" Redwood Hub 6.76 164.30

50' Rt. of Sta 428+00
110' Rt. of Sta 428+50

B.M. #15
B.M. #14 Cliff Rout. 2" I. Pipe B.P. Sta. 79+02
48' to Lt. of Sta 471+76 "D" Line 11.57

B.M. #9

152.84
100' Lt. of Sta 429+25

Nail in Large Pine Tree

B.M. #10

B.M. #11

B.M. #12

B.M. #13

B.M. #14

B.M. #16

B.M. #15

40

Torrey Pines & Levels
 "D" East Line - Linn Change
 Sta. 422+0 to South End

BM	6.60	352.08	345.48	0.2 H 26 415125
415+0		12.8	339.3 ✓	
+75		15.5	336.6 ✓	
+50		7.9	344.2	
+25		7.8	344.3	
414+0		4.9	347.2	
+75		4.6	347.5	
+50		4.2	347.9	
+25		5.0	347.1	
413+0		7.2	344.9	
+75		7.8	344.3	
+50		11.0	341.1	
+25		12.4	339.7	
TP	11.14	351.24	11.98	340.10
412+0			14.2	337.0
+75			12.7	338.5
+50			13.0	338.2
+25			13.9	337.3
411+0			13.6	337.6
+78.80 PC			14.1	337.1
+50			14.5	336.7
+25			14.9	336.3
410+0			15.1	336.1
+75			14.0	337.2
+50			11.3	339.9

351.24

7-30-35
 5155 41
 17041000

409+25			9.6	341.6	
409+0			8.6	342.6	
+75			4.7	346.5	
TP	12.55	363.36	0.43	350.81	0.2 H 27 408+60
+50			9.1	353.8	
+25			7.0	356.4	
408+0			0.7	362.7	
TP	12.85	375.90	0.81	363.05	0.2 H 28 408+0
+75			9.1	366.8	
+50			6.8	369.1	
+25			6.4	369.5	
407+0			6.5	369.4	
+75			6.0	369.9	
+50			5.5	370.4	
+25			4.6	371.3	
406+0			3.8	372.1	
+75			3.0	372.9	
+50			2.2	373.7	
TP	4.45	378.65	1.69	374.21	0.2 H 29 406+50
+25			4.3	374.4	
405+0			4.3	374.4	
+75			4.9	373.8	
+50			4.9	373.8	
+25			4.5	374.2	
404+0			4.7	374.0	
+75			5.7	373.0	

378.65

+50		6.3	372.4	
+25		16.0	362.7	
400+0		14.2	364.5	
+75		26.3	352.4	
+50		29.4	349.3	
+25		30.2	348.5	
402+0		27.2	351.5	
+75		11.8	366.9	
TP	12.69	390.48	0.86	377.79
BM			7.16	383.32
+50			4.9	385.6
+25			3.6	386.9
401+0			2.5	388.0
TP	11.55	401.83	0.20	390.28
+50			12.1	389.7
400+0			10.5	391.3
+50			9.3	392.5
+0968 EC			8.53	393.30
399+0			8.4	393.4
+50			7.4	394.4
398+0			6.0	395.8
+50			5.5	396.3
397+0			4.7	397.1
+50			3.4	398.4
TP	12.84	414.63	0.04	401.79

1. P. & P. Co. H. H. H. H.
 254 + 26.05
 383.36

072 Hub

42

414.63

395+9478		13.19	401.44	072 Hub
+50		9.7	404.9	
+75 = Edge P. Par. 179		8.65	405.98 ✓	
395+0 00		8.16	406.47 ✓	
+50		6.23	408.40 ✓	
394+0		4.15	410.48 ✓	
+50		2.02	412.61 ✓	
TP	8.68	422.18	1.21	413.42
393+0 02 Par. 179		7.11	414.99 ✓	
+7976 = EC		6.18	415.92 ✓	
+50		5.03	417.07 ✓	
392+0		3.18	418.92 ✓	
BM		4.35	417.75	Hub's P. H. 106 ft 393+50

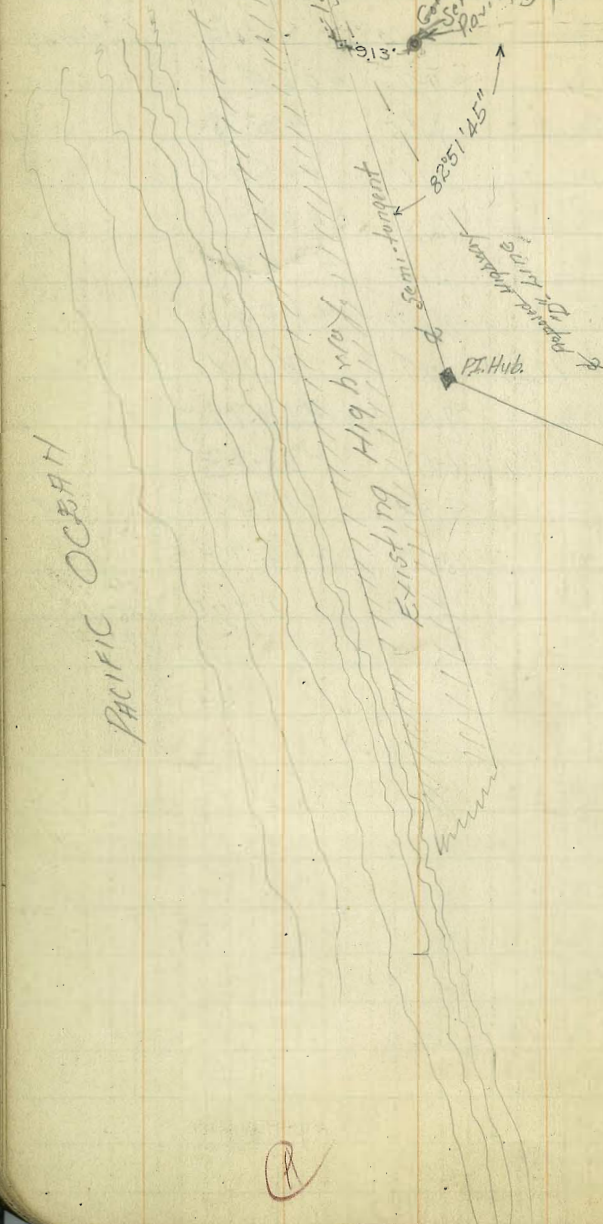
Walker
1908
L. M. Drake
F. P. Drake
8-4-30

EC. 472+116 = D-Line Station.
Found
C. M. Mon.
90° 27' 10"
90° 27' 10" 5-6-33
Mount

Pl. 1340

2187.93'
Pueblo LINE

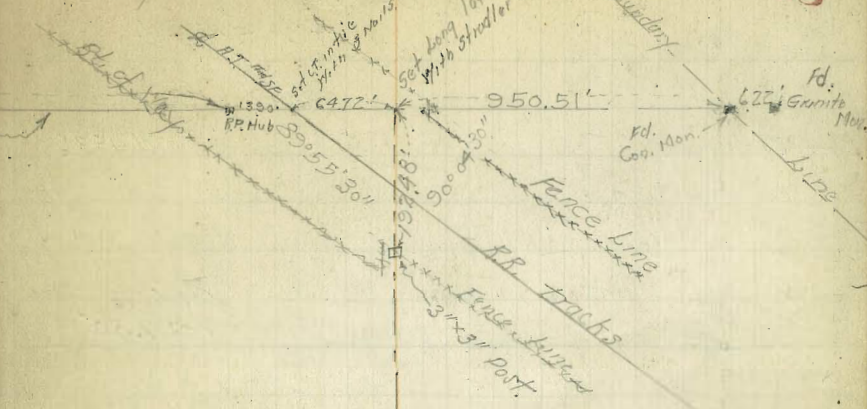
PACIFIC OCEAN



R

Ties to "D" Line
Torrey Pines Highway

43



Pl. 1338

Pl. 1339

Pl. 1337

Pl. 1336

Can Mon.

R

Mr. Hill
Blues
Dredge
Pence
8-5-30

Ties To Torrey Pines Road.

"D-Line"
- as per sketch

Pl. 1337

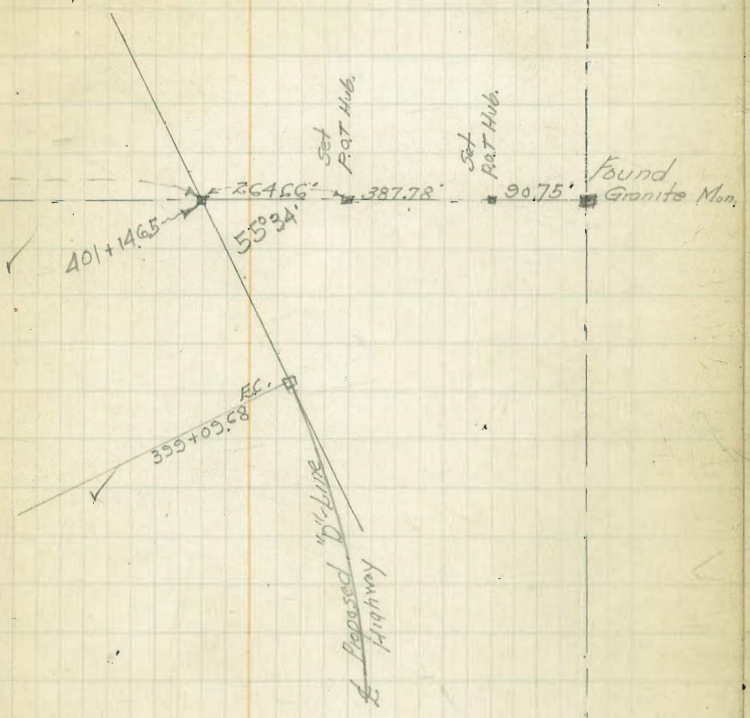
Pl. 1336

Found Con. Mon.

Chained
1897.30'

Pl. 1332

Pl. 1333



(P)

(P)

B.M. [#] D' Line 8-25-30 miles

B.M. [#] 7

B.M. [#] 1 B.P. in 2" Pipe 23.14 of sta 401+69 D' Line

B.M. [#] 1 diff Root	12.48	395.84	383.36
Reset above 2" Pipe			
65' to Rt of sta 401+25 D' Line	3.78	392.06	

B.M. [#] 2

B.M. Nail in Pole 84.514 of sta 414+08 D' Line 344.32

395.84

Culvert 7

375.0

Sta 401+50

50' Lt	14.0	381.8
42 "	14.0	381.8
35 "	12.4	383.4
25 "	11.8	384.0
£	10.2	385.6
5' N. of above Top cliff	10.5	385.3
15' Rt	9.5	386.3
2' N. of above Top cliff	9.8	386.0
20' Rt	14.7	381.1
5' N. of above Top cliff	19.0	376.8
27' Rt	12.2	383.6
2' N. of above Top cliff	14.2	381.6
31' Rt. Bottom cliff	26.8	369.0
1' S. of above	19.0	376.8
6' S. of above Top cliff	9.0	386.8
41' Rt.	19.0	376.8
6' S. of above Top cliff	8.5	387.3
T.P. 0.14	382.91	13.07
50' Rt bottom cliff	19.5	376.3
65' "	22.4	373.4
100' "	21.3	374.5

Culvert 2

410+50 O.K.

325.0

Culvert 3

419+75⁴¹ E.C.

O.K.

269.5

46

Cross Section of Existing
Torry Pines Grade

For Barron Pit

BM	0.28	129.28		129.00
TP	12.81	142.03	0.07	129.21
TP	12.18	154.04	0.17	141.86
TP	9.31	160.55	2.80	151.24
BM	10.63	161.22	9.96	150.59

Nail North of
Guard Fence
at Barron Pit
Station

2' = Top of Ground 15.53 145.69

6' Lt 8.9 152.4

16' Lt 9.3 151.9

20' Lt 5.6 155.6

30' Lt 3.7 157.5

0+50

20' Lt 9.5 151.7

26' Lt 10.4 150.8

21' Lt 12.5 146.7

8' Lt 13.7 147.5

6' Lt 18.0 143.2

TP 0.87 149.30 12.79 148.43

2' = Top of Ground 8.31 140.99

1+0

2' = Top of Ground 12.98 136.32

3' Lt 11.9 137.4

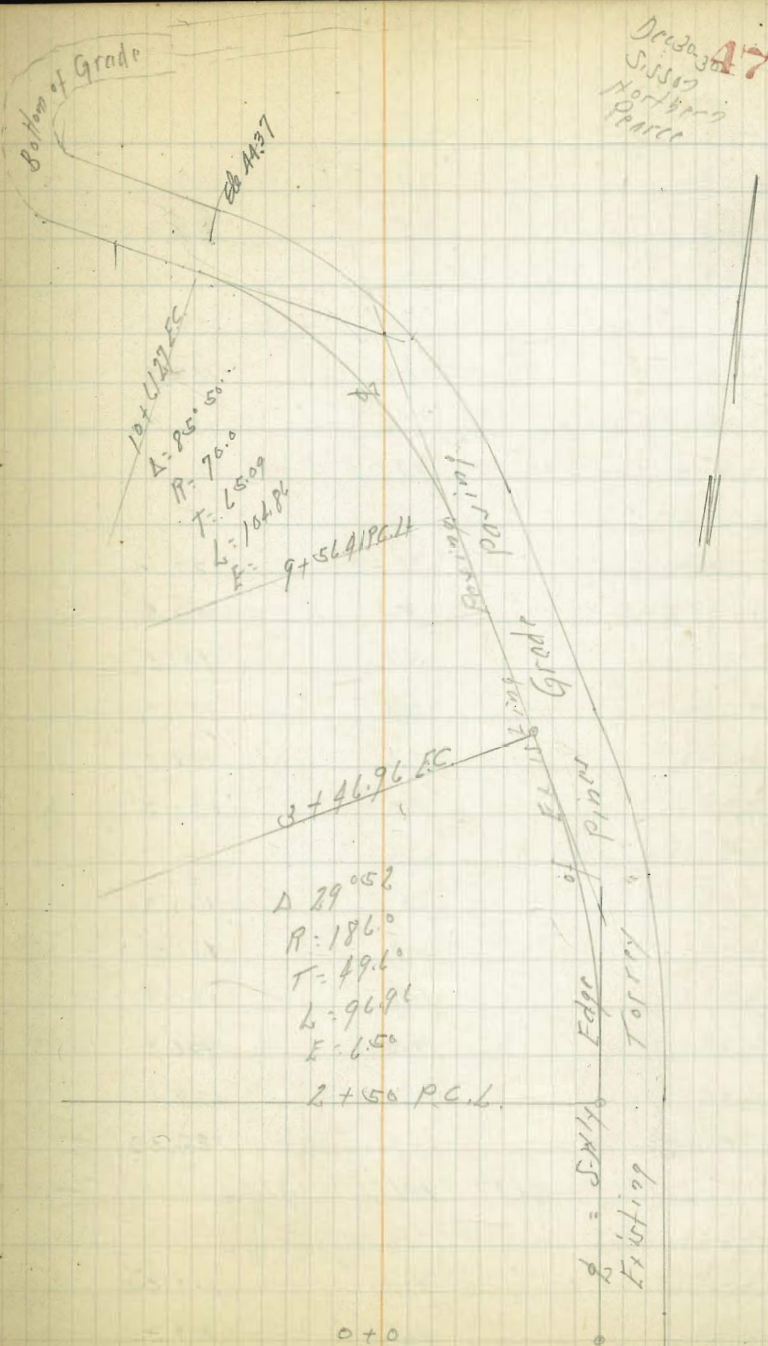
10' Lt 7.5 141.8

25' Lt 7.8 141.5

30' Lt 5.0 144.3

Reduced 4/15/1911 C.B.H.

Drawing 47
Sisson
North of
Pearce



Edge of Existing Torrey Pines

0+0

149.30

1.50

30' Lt	8.1	140.7
26' Lt	9.4	139.9
22' Lt	13.3	136.0
8' Lt	12.7	136.6
3' Lt	16.6	132.7
$\frac{1}{2}$ - cb + Ground	17.52	131.72
TP 0.61	137.17	127.4
	136.56	

2.10

$\frac{1}{2}$ - cb + Ground	10.03	127.14
3' Lt	9.4	127.8
6' Lt	5.6	131.6
22' Lt	5.5	131.7
23' Lt	2.6	134.6
30' Lt	1.0	137.2

2.50 P.C.L.

30' Lt	5.7	131.5
23' Lt	7.2	130.0
22' Lt	10.8	126.4
8' Lt	10.5	126.7
3' Lt	14.1	123.1
$\frac{1}{2}$ - cb + Ground	14.98	122.39
TP 2.31	126.87	126.6
	124.51	

3.10

$\frac{1}{2}$ - cb + Ground	9.21	117.66
3' Lt	9.0	117.9

126.87

0.22 48

8' Lt	5.2	121.7
22' Lt	5.8	121.0
24' Lt	2.1	124.8
30' Lt	0.5	126.4

3.46.96: FC

30' Lt	3.5	123.4
15' Lt	6.3	120.6
14' Lt	8.4	118.5
10' Lt	9.5	117.4 Transit
5' Lt	12.4	114.5
$\frac{1}{2}$ = cb + Ground	13.93	112.94

4.10

55' Pt of L	19.2	107.7
50' "	17.5	109.4
45' "	18.3	108.6
33' "	18.4	108.5
19' " " " Edge Pt	18.95	107.92
$\frac{1}{2}$ cb + Ground	19.05	107.82
8' Lt of $\frac{1}{2}$	11.1	115.8
24' Lt	4.9	122.0
30' Lt	4.7	122.2

1.50

30' Lt	7.8	119.1
24' Lt	8.3	118.6
10' Lt	13.5	113.4
$\frac{1}{2}$ - Top cb + Ground	23.68	103.19

12687

19' Pt - Edge Pt	23.60	103.27
26' Pt	23.6	103.3
28' Pt	22.3	104.6
50' Pt	22.1	104.8
55' Pt	21.3	105.6
66' Pt	24.3	102.6
	5+0	
69' Pt	28.9	98.0
55' Pt	26.8	100.1
35' Pt	27.4	99.5
30' Pt	28.1	98.8
19' Pt - Pacific	28.28	97.59
♀ - Ob + Ground	28.26	98.61
10' Lt	20.0	106.9
11' Lt	17.8	109.1
30' Lt	12.6	114.3
TP	0.77	114.86
	5+50	127.8
		114.09
30' Lt	6.5	108.4
10' Lt	11.5	103.4
♀	17.5.9	96.27
19' Pt - Pan	20.92	93.94
30' Pt	20.9	94.0
31' Pt	19.8	95.1
25' Pt	19.1	95.5
65' Pt	18.0	96.9

11286

49

75' Pt	21.6	93.2
	6+0	
60' Pt	26.4	88.4 Transit
75' Pt	22.0	92.8 ^{10.6.27}
28' Pt	22.9	92.0 ^{16.77}
27' Pt	25.0	89.9 ^{93.85}
19' Pt	25.66	89.20
♀ - Ob + Ground	25.57	88.29
8' Lt	24.5	90.4
9' Lt	14.1	100.5
20' Lt	10.3	104.6
30' Lt	7.9	107.0
	6+42	
30' Lt	10.7	104.5
10' Lt	16.1	98.8
3' Lt	27.8	86.1
♀ - Ob + Ground	29.11	85.40
19' Pt	29.51	85.35
26' Pt	28.8	86.1
28' Pt	23.3	91.6
45' Pt	24.0	90.9
53' Pt	23.1	91.8
65' Pt	29.8	85.1
	6+50	
65' Pt	30.1	84.8
53' Pt	23.4	91.5

114.80

15' Pt	242	90.6
29' Pt	237	91.2
26' Pt	296	85.3
19' Pt - Pav	3029	84.57
2 - Cb + Ground	3025	84.61
5' Lt	293	85.6
21' Lt	292	85.7
23' Lt	180	102.9
30' Lt	10.5	104.3
TP	334	105.60
	7+0	12.62
		102.24
40' Lt	34	102.2
25' Lt	63	99.3
20' Lt	260	79.6
2 - Cb + Ground	2570	79.90
19' Pt - Edge Pav	2562	79.98
26' Pt	248	80.8
28' Pt	201	85.5
40' Pt	208	84.8
15' Pt	199	85.7
60' Pt	259	79.7
	7+50	
60' Pt	326	73.0
15' Pt	274	78.2
28' Pt	272	78.4
26' Pt	299	75.7

105.60

19' Pt - Edge Pav	20.33	75.27
2 - Cb + Ground	3037	75.23
19' Lt	296	76.0 Transit
25' Lt	129	92.7
40' Lt	79	97.7
TP	0.50	93.17
	8+0	12.93
		92.67
40' Lt	1.6	91.6
23' Lt	8.6	84.6
20' Lt	20.9	72.3
2 - Cb + Ground	22.52	70.65
19' Pt - Edge Pav	22.52	70.59
30' Pt	22.6	70.6
35' Pt	23.8	69.4
	8+50	
2 - Cb + Ground	27.22	65.95
19' Lt	271	66.1
20' Lt	14.4	78.8
30' Lt	10.2	83.0
50' Lt	1.7	91.5
	9+0	
65' Lt	6.0	87.2
45' Lt	8.3	84.9
30' Lt	14.3	78.9
20' Lt	18.1	75.1
18' Lt	31.8	61.4

50

93.17

ℓ - cb + Ground	31.85	61.32	Stos 35' Lt
TP 2.82	83.53	12.41	9+0
	9+82		
ℓ - cb + Ground	25.31	58.22	
16' Lt	25.9	57.6	
20' Lt	11.4	72.1	
30' Lt	8.7	74.8	
50' Lt	5.9	77.6	
65' Lt	5.5	78.0	
	9+56.41 = PC 2		
70' Lt - Rad.	11.1	71.9	
45' Lt	12.3	71.2	
41' Lt	27.1	52.4	
6' Lt	29.3	54.2	
ℓ - cb + Ground	27.74	55.79	
	9+75		
ℓ Ground	30.3	53.2	
48' Lt	32.0	51.5	
55' Lt	12.2	71.3	
70' Lt - Rad.	11.6	71.9	
	10+0		
70' Lt - Rad.	11.6	71.9	
55' Lt	12.1	71.4	
52' Lt	32.6	50.9	
ℓ on Paving	22.95	50.58	

83.53

51

	10+25		Transit
ℓ on Paving	35.58	47.95	TP 59.83
ℓ Lt - cb + Ground	35.21	48.32	6.84
54' Lt	34.5	49.0	15.67
58' Lt	12.4	71.1	
70' Lt - Rad.	11.6	71.9	
	10+50		
70' Lt - Rad.	11.6	71.9	
58' Lt	12.6	70.9	
55' Lt	35.4	48.1	
28' Lt cb + Ground	37.24	45.69	
ℓ - Paving	38.07	45.46	
	10+61.27 = PC		
ℓ - Paving	39.16	44.37	
2' Lt - cb + Ground	38.69	44.84	
25' Lt	37.4	46.1	
55' Lt	36.0	47.5	
58' Lt	12.1	70.9	
70' Lt - Rad.	11.6	71.9	
TP	0.43 74.32	9.64	73.89
TP	0.61 61.95	13.01	61.31
TP	0.60 50.12	12.43	49.52
BM #10		13.70	36.42
			on 40' Lt
			46+30.38
			36.33

3024

33 Lt	5.6	24.6
50 Lt	4.8	25.4
80 Lt	9.9	20.3
100 Lt	16.3	13.9
130 Lt	20.0	10.2
155 Lt	17.3	12.9
173 Lt	12.7	17.5
181 Lt - Top Ck	12.50	17.74
181 Lt - Paving	13.30	16.94
	0+60	
204 Lt - Paving	17.10	12.84
204 Lt - Top Ck	16.80	13.44
198 Lt	15.6	14.6
180 Lt	25.0	5.2
140 Lt	25.2	5.0
100 Lt	23.8	6.4
67 Lt	22.0	8.2
40 Lt	16.3	13.9
28 Lt	13.2	17.0
8	11.6	18.6
1 Rt	9.6	20.6
25 Rt	7.0	23.2
59 Rt	6.0	30.2
TP	0.13	17.62
	0+77	12.75
		17.49
66 Rt	0.0	17.6

17.62

54

42 Rt	4.1	13.2
32 Rt	1.4	16.2
8	0.6	17.0
25 Lt	5.3	12.3
50 Lt	9.4	8.2
75 Lt	11.5	6.1
100 Lt	12.7	4.9
140 Lt	14.0	2.6
186 Lt	13.2	4.4
205 Lt	2.5	14.1
209 Lt - Top Ck	4.96	12.66
209 Lt - Paving	5.21	11.71
	1+0	
212 Lt - Paving	6.66	10.96
212 Lt - Top Ck	5.66	11.96
209 Lt	2.7	14.9
196 Lt	11.6	6.0
150 Lt	14.8	2.8
100 Lt	14.0	3.6
90 Lt	12.7	4.9
35 Lt	11.1	6.5
8	9.3	8.3
27 Rt	3.2	14.4
57 Rt	5.9	11.7
100 Rt	3.6	14.0
110 Rt	0.3	17.3

17.62

1719

138 Pt	0.0	17.5
100 Pt	5.3	12.3
60 Pt	7.3	10.3
30 Pt	9.1	8.5
2	11.0	6.6
30 Lt	14.0	3.6
60 Lt	13.5	4.1
100 Lt	14.3	3.3
125 Lt	15.6	2.0
155 Lt	15.2	2.4
190 Lt	12.3	5.4
205 Lt	3.7	13.3
209 Lt - Top 66	5.78	11.84
201 Lt - Spring	6.81	10.81
1750		
206 Lt - Spring	6.50	11.12
196 Lt	5.9	11.7
150 Lt	16.0	1.6
125 Lt	16.1	1.5
100 Lt	15.4	2.2
60 Lt	16.5	1.1
30 Lt	17.5	0.1
2	18.3	-0.7
30 Pt	18.6	-1.0
58 Pt	16.6	1.0

17.62

55

70 Pt	8.0	0.6
100 Pt	6.7	10.9
125 Pt	5.1	12.5
145 Pt - Top 66	2.5	13.1
TP	2.36	13.06
	6.92	10.70
1775		
115 Pt	1.7	11.4
100 Pt	5.1	8.0
90 Pt	13.0	0.1
50 Pt	14.0	-0.9
25 Pt	15.8	-2.7
2	15.2	-2.1
30 Lt	14.3	-1.2
60 Lt	13.2	-0.1
100 Lt	12.0	1.1
135 Lt	12.0	1.1
175 Lt	6.5	6.6
190 Lt	0.9	12.2
197 Lt - Spring	1.70	11.36
270		
187 Lt - Spring	1.67	11.39
180 Lt	0.6	13.5
160 Lt	7.3	5.8
130 Lt	12.3	0.9
100 Lt	12.5	0.6
70 Lt	12.9	0.2

1306

40 Lt	14.2	-1.1
2	15.6	-2.5
35 Rt	16.1	-3.0
70 Rt	16.3	-3.2
98 Rt	12.1	1.0
2+50		
80 Rt - Top Slope	15.8	-2.7
35 Rt	16.6	-3.5
2	16.1	-3.0
20 Lt	15.3	-2.2
38 Lt	9.3	3.8
70 Lt	11.9	1.2
100 Lt	11.8	1.3
125 Lt	9.9	3.2
150 Lt	6.3	6.8
166 Lt	1.0	12.1
170 Lt - Paving	1.67	11.39
3+0		
152 Lt - Paving	1.72	11.34
147 Lt	1.0	12.1
135 Lt	6.1	7.0
100 Lt	9.2	3.9
70 Lt	10.2	1.9
35 Lt	10.2	1.9
10 Lt	8.4	4.7
2	9.7	3.4

1306

56

25 Rt	14.8	-1.7
50 Rt	16.6	-3.5
75 Rt - Top Slope	16.8	-3.7
3+35		
72 Rt - Top Slope	15.1	-2.5
50 Rt	12.4	0.7
20 Rt	7.5	5.6
2	6.1	7.0
30 Lt	8.9	4.2
70 Lt	9.5	3.6
100 Lt	11.8	1.3
135 Lt	0.9	12.2
139 Lt - Paving	1.66	11.40
3+50		
134 Lt - Paving	1.54	11.52
129 Lt	0.9	12.2
100 Lt	10.7	2.4
80 Lt	11.1	2.0
70 Lt	9.5	3.6
40 Lt	9.0	4.1
20 Lt	9.1	4.0
2	7.8	5.3
25 Rt	6.5	6.6
50 Rt	9.9	3.2
74 Rt - Top Slope	14.0	-0.9

13.06

4+0

75 Pt = Top Slope	70	6.1
50 Pt	79	5.2
25 Pt	90	4.1
2	90	4.1
30 Lt	97	3.4
55 Lt	112	1.9
90 Lt	95	3.6
110 Lt	12	11.9
115 Lt = Parking	168	11.38

4+50

99 Lt = Parking	760	11.46
98 Lt	10	12.1
85 Lt	7.5	5.6
55 Lt	9.6	3.5
30 Lt	11.0	2.1
2	10.8	2.3
20 Pt	10.0	3.1
35 Pt	7.9	5.2
50 Pt	8.5	4.6
64 Pt = Top Slope	79	5.2

5+0

64 Pt = Top Slope	77	5.4
50 Pt	80	5.1
25 Pt	111	2.0
2	108	2.3

13.06

57

25 Lt	10.0	3.1
58 Lt	7.3	5.8
74 Lt	11	12.0
79 Lt = Parking	167	11.39
5+50		
12 Lt = Parking	161	11.45
55 Lt	1.7	11.4
40 Lt	7.6	5.5
20 Lt	10.2	2.9
2	10.4	2.7
25 Pt	10.5	2.6
50 Pt	9.4	3.7
57 Pt	8.6	4.5

6+0

55 Pt	10.8	2.3
50 Pt	10.9	2.2
25 Pt	11.2	1.9
2	7.6	5.5
20 Lt	5.9	7.2
36 Lt	1.5	11.6
43 Lt = Parking	170	11.36

6+572 = A 20'00 Pt taken on Split of Angle

22 Lt = Parking	174	11.32
18	1.5	11.6
2	8.76	4.30 on Conc. Pav.
25 Pt	10.9	2.2

50 Pt = Top Stage 11.3 1.8
 TP 9.48 13.79 8.75 4.31

7+0

10 Pt = Top Stage of 2712 with 10.4 3.2

20 Pt 10.0 3.8

1/2 8.1 5.7

15 Lt 1.9 11.9

21 Lt - Edge Pav 100 2.4 11.38

7+50

21 Lt - Pav 100 2.15 11.34

15 Lt 1.9 11.9

1/2 8.4 5.4

15 Pt 10.0 3.8

23 Pt = Top 1 11.6 2.2

8+0

11 Pt = Top 8.8 5.0

1/2 8.3 5.5

15 Lt 1.9 11.9

31 Lt - Pav 100 2.38 11.41

8+50

21 Lt - Pav 100 2.40 11.39

15 Lt 2.6 11.2

5 Lt 7.9 5.9

1/2 = Top Stage 8.6 5.2

BM #11 2.24 11.55

BP Trod Pipe
 48 Lt 97+100
 11.57

Cross Section of Fall
458+50 to 469+85

For Overhaul From Big Cut

BM #10	12.99	49.32	36.33	461+86.38
	458+50			
25' PL		4.6	44.7	
27' PL		2.6	46.7	
17' PL		2.9	46.4	
7' PL		4.4	44.9	
5		3.2	46.1	
	459+0			
28' LI		2.2	47.1	
26' LI		5.6	43.8	
15' LI		5.8	43.5	
5		6.0	43.3	
15' PL		7.7	41.6	
31' PL		7.7	41.6	
42' PL		11.9	37.4	
46' PL		12.3	37.0	
	459+25			
45' PL		15.8	33.5	
34' PL		9.8	39.5	
18' PL		10.1	39.2	
6' PL		7.8	40.5	
5		7.8	40.5	
15' LI		8.0	41.3	
25' LI		8.5	40.8	
26' LI		5.2	44.1	

49.32

Jan 19 1931
Sisson
M. H. H.
Northwest
Packer
59

459+50

25' LI		7.6	42.1
24' LI		10.3	39.0
15' LI		10.1	39.2
5		9.6	39.7
20' PL		10.1	39.2
35' PL		11.4	37.9
45' PL		17.2	32.1
51' PL		18.5	30.8
TP	3.48	69.88	12.92
	459+75		36.40
50' PL		11.6	28.3
36' PL		4.0	35.9
19' PL		2.3	37.6
5		2.6	37.3
13' LI		2.4	37.5
24' LI		2.2	37.7
25' LI		0.2	39.7
	460+0		
25' LI		2.2	37.7
34' LI		3.3	36.6
18' LI		3.3	36.6
5		4.6	35.3
20' PL		3.9	36.0
38' PL		4.7	35.2
50' PL		13.0	26.9

3988

55' Pt		147	25.2
	460+50		
56' Pt		176	22.3
51' Pt		16.0	23.9
36' Pt		76	32.4
20' Pt		69	33.0
2		65	33.4
17' Lt		70	32.9
18' Lt		54	34.5
	40+0		
10' Lt		83	31.7
9' Lt		83	31.1
2		86	31.3
20' Pt		96	30.3
35' Pt		93	30.6
45' Pt		16.9	23.2
53' Pt		18.8	21.1
	461+30.38 30' Pt		
60' Pt		20.1	19.8
48' Pt		18.1	21.8
33' Pt		10.8	29.1
20' Pt		10.7	29.2
2		10.3	29.6
5' Lt		9.7	30.2
10' Lt		8.6	31.3

461+20

3988

60

10' Lt		9.1	30.8
2		10.5	29.4
15' Pt		11.5	28.4
33' Pt		10.7	29.2
50' Pt		17.0	22.9
56' Pt		19.8	20.1
63' Pt		20.5	19.4
	461+45		
63' Pt		20.6	19.3
50' Pt		19.3	22.6
35' Pt		11.9	28.0
20' Pt		11.6	28.3
2		10.8	29.1
15' Lt		8.8	31.1
TP	0.64 30.28	10.24	29.64
	461+60		
55' Lt		15.5	14.8
45' Lt		13.8	16.5
30' Lt		0.8	29.5
15' Lt		0.4	29.9
2		0.5	29.8
15' Pt		3.0	27.3
33' Pt		3.2	27.1
45' Pt		7.5	23.8
56' Pt		8.0	22.3
70' Pt		13.3	18.0

3028

461195

93 Pt	128	17.5
57 Pt	87	21.6
50 Pt	88	21.5
30 Pt	38	26.5
15 Pt	84	26.9
2	22	28.1
15 Lt	13	29.0
32 Lt	10	29.3
51 Lt	15.0	15.3
58 Lt	16.8	13.5

46210

65 Lt	19.0	11.3
50 Lt	12.3	18.0
33 Lt	1.0	29.3
15 Lt	2.2	28.1
2	3.5	26.8
15 Pt	4.1	26.2
33 Pt	4.3	26.0
41 Pt	10.7	19.6
50 Pt	11	19.2

462125

50 Pt	138	17.5
30 Pt	46	25.7
15 Pt	49	25.4
2	18	25.5

3028

61

15 Lt	2.4	26.9
32 Lt	1.7	28.6
50 Lt	13.6	16.7
70 Lt	26.0	4.3
95 Lt	30.3	00.0

462150

90 Lt	34.4	- 4.1
80 Lt	31.0	- 0.7
50 Lt	15.4	14.9
33 Lt	31	27.2
15 Lt	49	25.4
2	58	24.5
15 Pt	61	24.2
30 Pt	54	24.9
54 Pt	20.0	10.3

462160

57 Pt	24.3	6.0
29 Pt	5.7	24.6
15 Pt	64	23.9
2	6.0	24.3
15 Lt	50	25.3
33 Lt	3.7	26.6
50 Lt	15.0	15.3
65 Lt	24.5	5.8
86 Lt	32.2	- 1.9
96 Lt	24.4	- 4.1

+ 3028
463+0

83 Lt.	346	- 43
78 Lt.	323	- 2.0
50 Lt.	163	140
31 Lt.	48	25.5
15 Lt.	59	24.4
1/2	6.9	23.4
15' Pt.	73	23.0
28' Pt.	70	23.3
38' Pt.	12.8	17.5
50' Pt.	20.5	- 9.8
68' Pt.	31.5	- 1.2
81' Pt.	346	- 4.3

+ 463+4.5

75' Pt.	350	- 4.7
66' Pt.	320	- 1.7
50' Pt.	204	9.9
38' Pt.	186	17.7
26' Pt.	79	22.4
15' Pt.	81	22.2
1/2	8.1	22.2
15' Lt.	72	23.1
32' Lt.	61	24.2
50' Lt.	177	12.6
73 Lt.	322	- 2.1
80 Lt.	345	- 4.3

3028
+ 463+50

71 Lt.	33.9	- 3.6
68 Lt.	322	- 1.9
50 Lt.	19.3	11.0
30 Lt.	6.7	23.6
TP	0.05	23.61
15' Lt.	6.72	22.56
1/2	1.6	22.0
15' Pt.	2.3	21.3
25' Pt.	2.0	21.6
35' Pt.	1.6	22.0
36' Pt.	5.9	17.7
50' Pt.	15.3	8.3
65' Pt.	25.3	- 1.7
75' Pt.	38.3	- 4.7

+ 463+75

75' Pt.	28.4	- 4.8
65' Pt.	25.2	- 1.6
50' Pt.	16.2	7.2
35' Pt.	6.3	17.3
26' Pt.	2.4	21.2
15' Pt.	3.9	20.9
1/2	3.3	20.3
75' Lt.	3.9	20.7
30' Lt.	1.3	22.3
37' Lt.	5.4	18.2
50' Lt.	14.1	9.2

62

23.61

60 Lt	22.4	1.2
66 Lt	23.3	0.3
464+0		
58 Lt	19.3	4.3
56 Lt	19.2	4.4
37 Lt	5.4	18.2
30 Lt	2.1	21.5
15 Lt	3.9	19.6
1/2	4.0	19.6
15' RL	3.6	20.0
25' RL	3.2	20.4
33' RL	7.1	18.5
50' RL	18.5	5.1
60' RL	25.2	-2.0
68' RL	28.3	-4.7
464+50		
70' RL	28.2	-4.6
61' RL	25.6	-2.0
50' RL	19.1	4.2
33' RL	7.7	15.9
25' RL	4.7	18.8
15' RL	4.8	18.8
1/2	4.9	18.7
15 Lt	4.6	19.0
30 Lt	3.2	20.4
37 Lt	7.0	16.6

23.61

50 Lt	16.1	7.5
54 Lt	17.1	6.5
464+50		
58 Lt	18.7	4.9
50 Lt	16.7	6.9
35 Lt	6.3	17.3
30 Lt	3.7	19.9
15 Lt	5.3	18.3
1/2	5.5	18.1
15' RL	5.3	18.3
25' RL	5.3	18.3
34' RL	9.5	14.1
50' RL	19.7	3.9
58' RL	25.6	-2.0
70' RL	28.3	-4.7
464+75		
70' RL	27.7	-4.1
60' RL	25.6	-1.8
50' RL	20.3	3.3
33' RL	10.0	13.6
26' RL	6.2	16.8
15' RL	6.4	17.2
1/2	6.4	17.2
15 Lt	6.5	17.1
30 Lt	5.0	18.6
37 Lt	8.1	15.5

63

23.01

43 Lt	128	10.8
52 Lt	145	9.1
60 Lt	183	5.3

41.5+10

55 Lt	179	5.7
50 Lt	165	7.1
38 Lt	88	14.8
32 Lt	60	17.6
15 Lt	68	16.8
1/2	72	16.4
15 Pt	69	16.7
25 Pt	71	16.5
35 Pt	11.5	12.1
50 Pt	210	2.6
55 Pt	217	-1.1
70 Pt	272	-3.6

46.5+2.5 - Beginning of Barrage of the Pt.

65 Pt	264	-2.8
50 Pt	226	1.0
35 Pt	119	11.7
27 Pt	82	15.4
15 Pt	82	15.4
1/2	82	15.4
15 Lt	79	15.7
32 Lt	68	16.8
40 Lt	110	12.6

23.01

48 Lt	167	6.9
53 Lt	177	5.9

41.5+50

55 Lt	189	4.7
50 Lt	176	9.0
40 Lt	100	13.6
31 Lt	79	15.7
15 Lt	71	14.5
1/2	75	14.1
15 Pt	76	14.0
28 Pt	92	14.4
36 Pt	119	11.7
48 Pt	208	2.8
58 Pt	225	1.1
68 Pt	263	-2.7

46.5+2

50 Pt	194	4.2
15 Pt	177	5.9
31 Pt	106	13.0
15 Pt	108	12.8
1/2	110	12.6
15 Lt	115	12.1
35 Lt	103	13.3
40 Lt	129	10.7
47 Lt	196	4.0
52 Lt	208	2.8

64

23.61

466+25

55' Lt	21.8	1.8
50' Lt	20.4	3.2
42' Lt	14.7	8.9
36' Lt	10.8	12.8
15' Lt	11.4	12.2
2	11.2	12.4
15' Pt	11.3	12.3
30' Pt	11.2	12.4
23' Pt	12.4	11.2
39' Pt	17.1	6.5
55' Pt	19.2	4.4

7P 289 15.50 1100 12.61

466+50

50' Pt	10.0	5.5
39' Pt	7.2	8.3
35' Pt	4.7	10.8
30' Pt	2.7	11.8
15' Pt	3.8	11.7
2	2.6	11.9
15' Lt	3.5	12.0
37' Lt	2.8	12.7
44' Lt	7.4	8.1
50' Lt	12.1	3.4
55' Lt	14.1	1.4

466+80

15.50

65

55' Lt	12.3	2.2
50' Lt	11.8	3.7
44' Lt	8.3	7.2
38' Lt	4.8	10.7
15' Lt	4.3	11.2
2	4.7	10.8
15' Pt	4.2	11.3
34' Pt	3.9	11.6
40' Pt	6.9	8.6
46' Pt	11.6	4.5

467+0

45' Pt	11.1	4.4
41' Pt	7.6	7.9
37' Pt	6.9	8.6
33' Pt	4.6	10.9
15' Pt	4.8	10.7
2	5.1	10.4
15' Lt	5.4	10.1
38' Lt	5.6	9.9
50' Lt	12.0	3.5
55' Lt	12.1	3.1

467+25

55' Lt	12.9	2.6
49' Lt	11.1	4.4
40' Lt	6.2	9.2
15' Lt	5.7	9.8

15.50

2	55	10.0
15' Pt	49	10.6
33' Pt	48	10.7
37' Pt	65	9.0
39' Pt	66	8.9

467+50

40' Pt	65	9.0
37' Pt	60	9.5
34' Pt	47	10.8
15' Pt	47	10.8
2	51	10.4
15' Lt	55	10.0
40' Lt	66	8.9
48' Lt	116	3.9
50	126	2.9

467+75

50' Lt	123	3.2
45' Lt	116	3.9
39' Lt	59	9.6
15' Lt	50	10.5
2	47	10.8
15' Pt	40	11.5
32' Pt	40	11.5
36' Pt	63	9.2

468+0

37' Pt	62	9.3
--------	----	-----

15.50

33' Pt	12	11.3
15' Pt	43	11.2
2	49	10.6
15' Lt	54	10.1
38' Lt	58	9.7
48' Lt	103	5.2
50' Lt	110	4.5

468+25

50' Lt	99	5.6
43' Lt	94	6.1
40' Lt	65	9.0
15' Lt	62	9.3
2	57	9.8
15' Pt	53	10.2
35' Pt	53	10.2
37' Pt	61	9.4

468+50

37' Pt	64	9.1
33' Pt	48	10.7
15' Pt	59	9.6
2	64	9.1
15' Lt	58	9.7
40' Lt	65	9.0
45' Lt	94	6.1
50' Lt	94	6.1

468+75

15.50

18' Lt	6.1	8.9
25' Lt	6.5	9.0
1/2	6.3	9.2
15' Pt	5.9	9.6
34' Pt	5.3	10.2
37' Pt	6.9	8.6
469+0		
38' Pt	6.6	8.9
34' Pt	5.5	10.0
15' Pt	6.5	10.0
1/2	7.5	8.0
15' Lt	8.1	7.4
10' Lt	5.8	10.3
46' Lt	4.6	10.9
469+25		
15' Lt	3.9	11.6
25' Lt	7.8	7.7
1/2	5.9	6.6
15' Pt	7.4	8.1
35' Pt	6.8	8.7
40' Pt	6.8	8.7
469+50		
0' Pt	8.8	6.7
1/2	9.0	6.5
20' Lt	8.6	6.9
28' Lt	7.3	8.2

15.50

67

469+75		
25' Lt	8.0	7.5
1/2	8.9	6.6
5' Pt	9.2	5.3?
469+100		
1/2	10.7	4.8
12' Lt	11.4	4.1
22' Lt	9.7	5.8
469+125		
18' Lt	12.0	3.5
7' Lt	12.7	2.8
3' Lt	13.4	3.1
1/2	11.0	4.5
BM "17"		
	3.93	11.57
		11.57
		11.57

February Estimate
Cross Section Fill
458+50 to 470+

B.M.	8.02	44.35	36.33	on 507 ft 461450.38
TP	49.5	48.79	0.51	43.84
	458+50			
28 Lt		0.0		40.8
25 Lt		0.9		47.9
15 Lt		1.6		47.2
8		2.5		46.3
10 Pt		2.4		45.4
25 Pt		2.2		46.6
30 Pt		2.5		46.3
	459+0			
33 Pt		6.6		42.2
17 Pt		7.7		41.1
7 Pt		5.0		43.8
8		5.5		43.3
15 Lt		5.4		43.4
22 Lt		5.4		43.4
	459+25			
25 Lt		7.9		40.9
15 Lt		7.3		41.5
8		7.3		41.5
7 Pt		6.7		42.1
20 Pt		9.8		39.0
31 Pt		9.8		39.5

48.79

459+50

35' Pt		11.2		37.6
20 Pt		9.6		39.2
8 Pt		8.4		40.4
8		9.2		39.6
15 Lt		9.8		39.0
24 Lt		9.8		39.0
	459+75			
24 Lt		11.0		37.8
15 Lt		11.3		37.5
8		11.5		37.3
9 Pt		10.4		38.4
21 Pt		11.4		37.4
35 Pt		12.7		36.1
	460+0			
36 Pt		13.3		35.5
20 Pt		13.1		35.7
16 Pt		12.1		36.7
8		13.3		35.5
10 Lt		12.6		36.2
25 Lt		11.5		37.3
TP	1.21	37.37	12.63	36.16
	460+50			
18 Lt		4.3		33.1
8		4.3		33.1
18 Pt		4.2		33.2

68
Feb. 31
5:50
No. 100
North
Kenny

37.37

15

32' Pt	1.6	35.8
	461+0	
32' Pt	4.4	33.0
22' Pt	6.9	30.5
10' Pt	6.7	30.7
Z	6.6	30.8
10' Lt	5.9	31.5
	461+30.3880	
8' Lt	6.8	30.6
Z	8.2	29.2
15' Pt	8.4	29.0
23' Pt	7.1	30.3
34' Pt	6.6	30.8
	461+40	
30' Pt	6.1	31.3
20' Pt	8.4	29.0
Z	8.5	28.9
5' Lt	7.4	30.0
	461+45	
10' Lt	6.9	30.5
Z	8.8	28.6
20' Pt	9.0	28.4
30' Pt	6.4	31.0
	461+60 No Sec. orig	
30' Pt	8.3	29.1
30' Pt	9.7	27.7

37.37

69

Z	9.2	27.2
5' Lt	8.1	29.3
15' Lt	7.1	30.3
	461+7.5	
32' Lt	8.2	29.2
15' Lt	8.5	28.9
Z	9.6	27.8
15' Pt	10.3	27.1
25' Pt	8.3	29.1
	462+0	
32' Pt	10.8	26.6
15' Pt	10.7	26.7
Z	10.8	26.6
15' Lt	9.3	28.1
33' Lt	8.5	28.9
	462+25	
33' Lt	8.8	28.6
15' Lt	10.3	27.1
Z	12.0	25.4
15' Pt	11.9	25.5
29' Pt	11.7	25.7
	462+45	
30' Pt	12.3	25.1
15' Pt	12.7	24.7
Z	13.0	24.4
15' Lt	11.6	25.8

32.37

32 Lt		10.1	27.5
	462+60		
32 Lt		10.6	26.8
15 Lt		12.2	25.2
L		13.3	24.1
15 Pt		13.1	24.3
29 Pt		13.9	24.5
	463+0		
28 Pt		14.0	23.4
15 Pt		14.1	23.3
L		14.1	23.3
15 Lt		12.5	24.9
31 Lt		11.9	25.5
TP	0.01	24.52	12.86
			24.51
	463+25		
32 Lt		0.3	24.2
15 Lt		1.0	23.5
L		2.5	22.0
15 Pt		2.1	22.4
26 Pt		2.2	22.3
	463+50		
25 Pt		2.7	21.8
15 Pt		2.7	21.8
L		3.5	21.0
15 Lt		2.6	21.9
30 Lt		1.1	23.4

24.52

70

	463+75		
30 Lt		2.1	22.4
15 Lt		3.9	20.6
L		4.3	20.2
15 Pt		3.4	21.1
27 Pt		3.5	21.0
	464+0		
25 Pt		4.4	20.1
15 Pt		4.3	20.2
L		5.0	19.5
15 Lt		4.5	20.0
30 Lt		3.1	21.4
	464+30		
30 Lt		4.1	20.4
15 Lt		5.4	19.1
L		6.0	18.5
15 Pt		5.5	19.0
25 Pt		5.7	18.8
	464+50		
26 Pt		6.3	18.2
15 Pt		6.0	18.5
L		6.5	18.0
15 Lt		6.2	18.3
29 Lt		4.7	19.8
	464+75	no ocular	
31 Lt		5.5	19.0

24.52

15 Lt	7.0	17.5
2	7.4	17.1
15 Rt	6.6	17.9
27 Rt	7.3	17.2
465+0		
27 Rt	7.7	16.8
15 Rt	7.3	17.2
2	8.1	16.4
15 Lt	7.8	16.7
32 Lt	7.1	17.4
465+25		
32 Lt	7.5	17.0
15 Lt	8.8	15.7
2	9.2	15.3
15 Rt	8.4	16.1
28 Rt	7.7	16.8
465+50		
28 Rt	8.1	15.9
15 Rt	9.8	14.7
2	10.5	14.0
15 Lt	9.9	14.6
32 Lt	8.8	15.7
466+0		
35 Lt	11.2	13.3
15 Lt	11.5	13.0
2	12.0	12.5

24.52

15 Rt	11.4	13.1
29 Rt	10.3	14.2
TP	2.79 - 15.40	11.91
466+25		
30 Rt	1.5	13.9
15 Rt	2.0	12.4
2	3.5	11.9
20 Lt	3.1	12.3
35 Lt	1.4	14.0
466+50		
35 Lt	1.4	14.0
30 Lt	3.2	12.2
2	3.8	11.6
15 Rt	3.9	11.5
31 Rt	1.9	13.5
466+80		
30 Rt	2.2	13.2
15 Rt	1.2	11.2
2	4.5	10.9
15 Lt	2.8	12.6
35 Lt	2.9	12.5
467+0		
35 Lt	3.0	12.4
15 Lt	4.1	11.3
2	5.1	10.3
15 Rt	4.7	10.7

1540

33' Pt	2.6	12.8
467+25		
32' Pt	3.3	12.1
15' Pt	4.9	10.5
2	5.5	9.9
15' Lt	4.0	11.4
36' Lt	4.0	11.4
467+50		
37' Lt	4.1	11.3
15' Lt	4.4	11.0
2	5.3	10.1
15' Pt	4.1	11.3
32' Pt	3.1	12.3
467+75		
31' Pt	2.5	12.9
15' Pt	3.6	11.8
2	5.1	10.3
20' Lt	4.5	10.9
38' Lt	3.9	11.5
468+0		
37' Lt	3.8	11.6
20' Lt	5.4	10.0
2	5.4	10.0
15' Pt	3.7	11.7
32' Pt	2.9	12.5

1540

72

468+25 no original		
33' Pt	3.5	11.9
15' Pt	4.6	10.8
2	6.0	9.4
18' Lt	5.8	9.6
25' Lt	4.7	11.0
33' Lt	5.6	9.8
468+50		
36' Lt	5.7	9.7
20' Lt	5.0	10.4
2	6.4	9.0
15' Pt	5.3	10.2
33' Pt	3.6	11.8
468+75		
33' Pt	3.7	11.7
15' Pt	5.3	10.1
2	6.7	8.7
20' Lt	6.4	9.0
41' Lt	6.4	9.0
469+0		
43' Lt	4.7	10.7
25' Lt	7.3	8.1
10' Lt	7.7	7.7
2	6.9	8.5
15' Pt	5.2	10.2
34' Pt	4.5	10.9

15.40

469+25

35' Pt	6.1	9.3
15' Pt	7.1	8.3
2'	8.7	6.7
15' Lt	7.5	7.9
35' Lt	6.3	9.1

469+50

30' Lt	6.5	8.9
30' Lt	8.7	6.7
2'	8.8	6.6
6' Pt	9.0	6.4

469+65 No original

5' Pt	9.0	6.4
2'	9.0	6.4
25' Lt	8.1	7.3

469+75

22' Lt	9.6	5.8
12' Lt	10.7	4.7
2' marked	10.9	4.5
9' Pt	9.3	6.1

470+10 = All on Sand fill

5' Pt	9.6	5.8
2'	11.6	3.8
7' Lt	13.4	2.0
15' Lt	12.6	2.8
20' Lt	10.0	5.4

15.10

73

BM #11

3.20

11.60

 11.11
 11.11 11.11
 11.57

74

76



17/1

78

957.73
622
95051

80

DIRECTIONS FOR USE OF TABLES

TABLE No. 1.

Distance of slope stake from side or shoulder stake for any width roadway, slope $1\frac{1}{2}$ to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body of table in same row and column gives distance from side stake to slope stake. If ground is not

IMPROVED TABLES

AND

INFORMATION

To find Tangent and External for curve of any other degree, divide by degree of curve and add correction found in column of corrections. Degree of curve with a given T may be found by dividing tangent (or external) opposite T by given tangent (or external). The distance from a point on the tangent to the curve is very nearly the square of the tangent length divided by twice the radius.

89°55'
" "
179 51
89°55'30"
179 59 60
90°04'30"

1035 30
956 5
8484
622
78.62

1035 31
622
1029 13
1015 23
13.90

1021 45
622
1015 23
950 51
64.72