

# 1809

## EUGENE DIETZGEN CO.

DRAWING MATERIALS, MATHEMATICAL and  
SURVEYING INSTRUMENTS

Chicago New York San Francisco New Orleans Pittsburg Toronto

Distances from Center of Roadway for Cross-Sectioning  
Roadway 16 feet wide. Side Slopes 1 on 1.  
For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	0
1	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	1
2	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	2
3	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	3
4	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	4
5	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	5
6	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	6
7	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	7
8	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	8
9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	9
10	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	10
11	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	11
12	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	12
13	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	13
14	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	14
15	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	15
16	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	16
17	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	17
18	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	18
19	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	19
20	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	20
21	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	21
22	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	22
23	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	23
24	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	24
25	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	25
26	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	26
27	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	27
28	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	28
29	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	29
30	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	30
31	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	31
32	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	32
33	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	33
34	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	34
35	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	35
36	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	36
37	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	37
38	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	38
39	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	39
40	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 30.6. For same slopes but other widths of roadbed, correct above figures by one-half difference in width of roadbed; thus in example above, for 20 ft. roadbed distance will be  $30.6 + (20 - 16) \div 2$  or 2 ft. added to  $30.6 = 32.6$ . For slopes of 1 on 1  $\frac{1}{2}$  see inside of back cover.

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Made in U. S. A.

1-25 Levels Mission Valley Trunk Sewer Coash

29-76 Levels Mission Valley Sewer Cont.  
(Pump plant - East (Carrol & Foster))

Mission Valley Trunk Sewer Construction

Sta 119+0 to 169+40.73

BM	65-D	37.18	32.33	00 500 10' 8" 11845 922-40 1788 25.6' grade 99
118+50	4.85			
119+0		5.1	32.1	25.7
+50		5.1	32.1	25.8
120+0		5.0	32.2	25.9
+50		4.9	32.3	26.0
121+0		4.7	32.5	26.1
+50		4.7	32.5	26.2
122+0		4.6	32.6	26.3
+50		4.6	32.6	26.4
123+0		4.6	32.6	26.5
+50		4.6	32.6	26.6
+75		4.3	32.9	26.66
124+00				

Indexed

Cut	Av. Cut	Length	Vol	Exc. C.Ys
6.59	6.5	50	95.2	17.6
6.4	6.35	50	91.0	45.5
6.3	6.3	50	90.4	45.2
6.3	6.3	50	90.4	45.2
6.3	6.35	50	91.0	45.5
6.4	6.35	50	91.0	45.5
6.3	6.3	50	90.4	45.2
6.3	6.25	50	89.6	44.8
6.2	6.15	50	88.2	44.1
6.1	6.05	50	86.8	43.4
6.0	6.1	25	87.5	21.87
6.2	6.2	25	88.8	22.2
6.2				496.07

Nov 8-47

A.C.Y.

Exc. C.Ys

1

Reg Back 100' Reg Back C.V.

118+50	50	47.0	23.5
119	50	43.5	21.75
+5	50	43.0	21.5
120	50	43.0	21.5
+50	50	43.5	21.75
121	50	43.5	21.75
+50	50	43.0	21.5
122	50	42.4	21.2
+50	50	41.4	20.7
123	50	40.5	20.25
+50	25	40.2	10.05
+75	25	41.4	10.35
124			<u>23580</u>

		$\langle 37.18 \rangle$			
124+0			4.3	32.9	26.7
+50			5.5	33.7	26.8
TP	13.03	$\langle 46.71 \rangle$	2.50	$\langle 33.68 \rangle$	
125+0			11.8	34.9	26.91
+21			11.9	34.8	26.95
+42			20	44.7	27.0
126+0			16	45.1	27.11
TP	7.54	$\langle 53.32 \rangle$	0.93	$\langle 45.78 \rangle$	
+36			5.4	47.9	27.18
+48			10.8	42.5	27.2
+70			11.2	42.1	27.24
127+04			9.7	43.6	27.31
TP	7.62	$\langle 57.25 \rangle$	3.68	$\langle 49.64 \rangle$	
+23			1.9	55.4	27.35
+58			1.7	55.6	27.42
128+00					

Cut	Av. Cut.	Length	Av. C.Y. / 100'	Exc. C.Y.	3
6.2					
	6.55	50	93.7	46.85	
6.9					
	7.45	50	106.5	53.25	
7.99					
	7.92	21	113.0	23.73	
7.85					
	12.78	21	180.5	37.9	
17.7					
	17.85	58	250.5	145.79	
18.0					
	19.36	36	<del>278.5</del>	101.7	
20.72					
	18.01	12	253.0	30.36	
15.3					
	15.08	22	212.3	46.71	
14.86					
	15.57	34	219.	74.46	
16.29					
	22.17	19	<del>317.5</del>	59.57	
28.05					
	28.12	35	<del>347.3</del>	138.70	
28.18					
	24.59	42	<del>347.6</del>	145.99	
21.0					
				904.51	

Reg. Back 11001  
C.Y.

50 46.5 23.75

50 58.6 29.3

21 65.0 13.65

21 133.0 27.93

58 203.4 117.97

36 224.0 80.64

12 205.2 24.62

22 165.0 36.3

34 171.6 58.34

19 ~~218.7~~ 41.55

35 ~~304.3~~ 105.45

42 ~~252.3~~ 105.97

684.97

4 5

		$\langle 57.26 \rangle$		
128+0		8.8	48.5	27.51 ✓
+50		10.7	46.6	27.61 ✓
129+0	41° 47' 30" RT	12.50	$\langle 44.76 \rangle$	27.71 ✓
TP	1.49	$\langle 46.67 \rangle$	12.08	$\langle 45.18 \rangle$
+50		5.2	43.4	22.81 ✓
130+0		4.0	42.7	22.91 ✓
+50		4.4	42.3	22.01 ✓
131+0		6.2	40.4	22.11 ✓
+50		8.8	37.9	22.21 ✓
132+0		10.9	35.8	22.31 ✓
+50		12.6	34.1	22.41 ✓
TP	7.90	$\langle 42.13 \rangle$	12.41	$\langle 34.23 \rangle$
133+0		9.5	32.6	22.51 ✓
+50		9.1	32.0	22.61 ✓
134+00				

Cut	Av. Cut	Length	Av. Cy. 100'	Exc. C.Y.
21.0 ✓				
	20.0'	50'	280.7	140.35
19.0 ✓				
	18.01'	50'	253.0	126.50
17.02 ✓				
	16.3'	50'	229.4	114.70
15.59 ✓				
	15.19'	50'	214.0	107.00
14.79 ✓				
	14.54'	50'	205.0	102.50
14.29 ✓				
	13.29'	50'	187.4	93.70
12.29 ✓				
	10.99'	50'	143.0	71.50
9.69 ✓				
	8.59'	50'	122.1	61.05
7.49 ✓				
	6.59'	50'	94.4	47.20
5.69 ✓				
	4.85'	50'	70.0	35.00
4.01 ✓				
	4.2'	50'	61.2	30.60
4.39 ✓				
	4.24'	50'	61.4	30.70
4.09 ✓				
				960.80

0.5 Cross  
 44.73 27.71  
 1706.14



Req Back Req Back  
1/001 C.V.

6

50 233.2 116.60

50 205.6 102.80

50 182.0 91.00

50 166.2 83.10

50 ~~167.5~~ 82.75

50 140.0 70.00

50 108.0 54.00

50 74.6 37.30

50 46.8 23.40

50 22.6 11.30

50 ~~16.5~~ 8.25

50 ~~16.8~~ 8.40

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688.90

		<42.13>		
134+0		9.3	32.8 ✓	2871 ✓
+41		8.3	33.8 ✓	288 ✓
+45		5.9	36.2 ✓	2880 ✓
135+0		5.2	36.9 ✓	2902 ✓
+50		7.6	37.5 ✓	2922 ✓
136+0		4.3	37.8 ✓	2942 ✓
+50		2.3	39.8 ✓	2962 ✓
137+0		0.4	41.7 ✓	2982 ✓
TP	12.39	<53.79>	0.73	<41.40>
+50		9.4	44.4 ✓	3002 ✓
138+0		7.1	46.7 ✓	3022 ✓
+50		6.4	47.4 ✓	3042 ✓
+74		6.4	47.4 ✓	305 ✓
+75	with A.C. Paving	7.6	46.2 ✓	3052 ✓

Cut	Av. Cut	Length	Av. C.Y. / 100'	Exc. C.Y.
4.09 ✓				
	4.55 ✓	41'	66.0	27.06
5.0 ✓				
	6.2 ✓	4'	88.8	3.55
7.4 ✓				
	21" PIPE			21" PIPE
	7.64 ✓	55'	100.0	55.00
7.88 ✓				
	8.08 ✓	50'	105.7	52.85
8.28 ✓				
	8.33 ✓	50'	109.0	54.50
8.38 ✓				
	9.28 ✓	50'	121.0	60.50
10.18 ✓				
	11.03 ✓	50'	143.2	71.60
11.88 ✓				
	13.13 ✓	50'	170.0	85.00
14.38 ✓				
	15.43 ✓	50'	199.0	99.50
16.48 ✓				
	16.73 ✓	50'	215.8	107.90
16.98 ✓				
	16.94 ✓	24'	218.4	52.42
16.9 ✓				
	16.29 ✓	1'	210.4	2.10
15.68 ✓				

671.98

RagBack RagBack  
1100' C.V.

8

41 18.5 7.58

4 41.5 1.66

21" PIPE

55 60.0 33.00

50 65.7 32.85

50 68.8 34.40

50 81.0 40.50

50 103.4 51.70

50 130.0 65.00

50 159.4 79.70

50 176.0 88.00

24 178.5 42.84

1 170.5 1.71

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478.94

Cut.	Av.	Length	Av. C.Y.	Exc.
38-75	53.79			
38+97 = Fly. FC Pav. 29	8.0	45.8	30.61	
9+50	7.1	46.7	30.83	
+88.50 Δ 14' 26" RT	7.50	46.3	30.97	
P 5.66 <52.51>	6.94	46.85	31.00	
10+6	6.1	46.4	31.02	
+11 = 3/4 Oil & Rock Pav	6.15	46.36	31.06	
+30 = Fly Oil & Rock Pav	6.05	46.46	31.11	
+50	5.9	46.6	31.22	
41+0	5.3	47.2	31.42	
+50	4.8	47.7	31.62	
42+0	5.6	46.9	31.82	
+27	5.4	47.1	31.93	
+32	2.7	49.8	31.95	
+45	1.9	50.6	32.00	

Cut.	Av.	Length	Av. C.Y.	Exc.
15.68	15.44	22	199.4	43.87
15.19	15.53	53	200.4	106.21
15.88	15.6	38.5	201.3	77.50
15.33	15.35	11.5	198.4	22.82
15.38	15.1	11	195.6	21.52
15.30	15.31	19	193.3	36.73
15.32	15.17	20	195.7	39.14
15.38	15.58	50	201.2	100.60
15.78	15.94	50	205.9	102.95
16.08	15.58	50	201.2	100.60
15.08	15.12	27	195.2	52.70
15.17	16.51	5	213.0	10.65
17.85	18.22	13	235.0	28.20
18.6				
746.49				

Reg Back 1000 C.Y.  
Reg. Back

22	159.5	35.10
53	160.4	85.01
38.5	161.7	62.25
11.5	158.4	18.22
11	156.0	17.16
19	153.4	29.15
20	156.0	31.20
50	161.3	80.65
50	166.0	83.00
50	161.3	80.65
27	155.3	41.93
5	173.0	8.65
12	195.0	23.40

596.37

140

+ 11

+ 30

+ 50

142+45

 $\langle 52.5 \rangle$ 

142+50

37

48.8

32.05

BM

278

 $\langle 49.73 \rangle$ 32.05  
25.61 142+45

+78 ELY HCPV

210

50.11

32.13

142+07 ELY HCPV

234

50.2

32.25

+36

32

49.3

32.27

+44

64

46.1

32.4

144+0 A 6" O.B. RT.

8.3

44.2

32.62

IP 2.64

 $\langle 47.06 \rangle$ 

8.09

 $\langle 44.47 \rangle$ 32.62  
07.57 45 RT  
142+0

+25

3.2

43.9

32.69

+27

2.6

44.5

32.68

+27

2.7

44.4

32.90

+43

3.8

43.3

32.71

145+0

5.0

42.1

32.82

+50

5.1

42.0

32.92

+91

5.1

42.0

32.00

CUT Av. Cut Length Av. V. Max. 10-47 CY  
18.6 17.69 5 228.0 1100' 5.500' Exc. 11  
1216.0 11.40

16.78

17.38

28

224.0

62.72

17.98

17.90

29

231.6

67.16

17.92

17.42

29

225.0

20.25

16.93

15.31

8

198.0

15.84

13.7

17.64

56

157.4

88.14

11.58

24" PIPE

24" PIPE

~~10.58~~

11.40

25

154.3

38.57

11.23

11.52

2

163.0

3.26

11.82

11.76

10

166.2

16.62

11.7

11.15

6

157.6

9.46

10.59

9.93

57

141.0

9.87

9.28

9.18

50

130.6

65.30

9.08

9.04

41

128.4

52.64

9.0

461.23

	Reg Back	Reg Back	C.V
5	188.0		9.40
28	184.0		51.54
29	191.5		35.54
9	185.0		16.65
8	158.0		12.64
56	<del>118.4</del>		66.32
<u>24" PIPE</u>			
2.5	<del>102.0</del>		26.75
2	<del>128.2</del>		2.40
10	118.6		11.86
6	110.4		6.62
7	93.4		6.54
50	83.0		41.50
41	80.6		33.05
			<u>340.79</u>

145+91

1706

145+95

42

42.9

33.01

146+05

43

42.8

33.03

+08

54

41.7

33.04

+50

53

41.8

33.12

147+0

51

42.0

33.22

+50

51

42.0

33.32

148+0

57

41.4

33.42

+21

61

41.0

33.46

+32

73

39.8

33.48

+43

69

40.2

33.51

+50

61

41.0

33.52

149+0

66

40.5

33.62

+06

63

40.8

33.63

Cut	Ar. Cut	Length	Av. C.Y.	Exc. C.Y.
9.0	9.45	4	131.0	5.24
9.89				
	9.83	10	139.3	13.93
9.77				
	9.21	3	131.0	3.93
8.66				
	8.67	42	123.2	51.74
8.68				
	8.73	50	124.0	62.00
8.78				
	8.73	50	124.0	62.00
8.68				
	8.33	50	118.4	59.20
7.98				
	7.76	21	110.5	23.20
7.54				
	6.93	11	99.0	10.89
6.32				
	6.5	11	93.2	10.25
6.69				
	7.08	7	100.7	7.05
7.48				
	7.18	50	102.7	51.35
6.88				
	7.02	6	100.2	6.01
7.17				

366.99

13



Req. Back 1000 C.V. Req. Back

4	86.5	3.46
10	91.6	9.16
3	83.0	2.49
42	75.5	31.71
50	76.3	38.15
50	76.3	38.15
50	<del>72.4</del>	36.70
21	62.6	13.15
11	52.0	5.72
11	45.5	5.00
7	53.8	3.77
50	55.0	27.50
6	53.0	3.18

217.64

149+06		$\langle 47.06 \rangle$		
149+15	Wly Oil & Rock Pav	4.8	42.3	33.65
+28	Fly " " "	4.9	42.2	33.67
+31		4.3	42.8	33.68
+50		4.5	42.6	33.72
150+0		5.0	42.1	33.82
150+1190		5.22	41.84	33.84
149+1584		5.22	41.84	33.84
TP	8.49	$\langle 50.33 \rangle$	$\langle 41.84 \rangle$	33.84
149+9996		8.3	42.0	33.92
150+0132		8.6	41.7	34.02
+50		8.3	42.0	34.07
+73	Wly Oil & Rock Pav	8.2	42.1	34.09
+84	Fly " " "	8.2	42.1	34.09
151+0		8.2	42.1	34.12
+50		8.0	42.5	34.22

Cut	Av. Cut	Length	Av. Cy. 100'	Ecc. Cy.
7.17	7.91	9'	112.7	10.14
8.65	8.59	13'	122.0	15.86
8.53	8.82	3'	125.3	3.76
9.12	9.0	19'	127.8	24.28
8.88	8.53	50'	121.2	60.60
8.78	8.14	11.9'	116.0	13.80
8.0	8.04	41.32'	114.7	47.40
8.08	7.88	48.68'	112.2	54.62
7.68	7.8	23'	111.2	25.58
7.93	7.97	11'	113.6	12.50
8.01	8.0	16'	114.0	18.24
7.98	8.03	50'	114.5	57.25
8.08				
				343.93

	Req Back 1001	Req. Back C.V.
9	65.0	5.85
13	74.4	9.67
3	78.0	2.34
19	80.2	15.24
50	74.0	37.0
11.9	68.2	8.12
41.32	67.0	27.68
<del>48.68</del>		
48.68	64.6	31.45
23	63.7	14.65
11	66.0	7.26
16	66.4	10.62
50	66.8	33.40
		<hr/> 203.28

151+50				
151+70		8.0	42.3	34.26
+75		7.4	42.9	34.27
+88		7.2	43.1	34.30
152+0		8.0	42.5	34.32
+50		7.1	43.2	34.42
153+0		5.4	44.9	34.52
+50		4.9	45.4	34.62
154+0		4.9	45.4	34.72
+50		4.2	46.1	34.82
155+0		3.9	46.4	34.92
+35		3.4	47.9	34.99
+70		2.0	48.3	35.06
TP	6.10	1.50	48.83	35.06 075105 10.81 155470
156+00				

<50.32>

<5493>

Cut	Av. Cut	Length	Av. Cy 1100'	Exc o.y.
8.08	8.06	20	115.0	23.00
8.04				
	8.33	5	118.3	5.92
8.63				
	8.71	13	124.0	16.12
8.8				
	8.38	12	119.0	14.28
7.98				
	8.35	50	119.0	59.50
8.78				
	9.58	50	128.8	64.40
10.38				
9.38				
	10.58	50	143.0	71.50
10.78				
	10.73	50	152.0	76.00
10.68				
	10.98	50	155.3	77.65
11.28				
	11.38	50	161.0	80.50
11.48				
	12.2	35	172.3	60.30
12.91				
	13.07	35	184.4	64.54
13.24				
	13.71	30	193.2	57.96
14.18				

17

671.67

	Reg. Back 100'	Reg. Back C.Y.
70	67.0	13.40
5	71.0	3.55
13	76.0	9.88
12	<del>71.2</del>	<del>8.54</del>
50	<del>71.0</del>	<del>35.50</del>
50	<del>81.2</del>	<del>40.60</del>
50	<del>95.5</del>	<del>47.75</del>
50	104.4	52.20
50	108.0	54.00
50	113.4	56.70
35	<del>122.3</del>	42.80
35	137.0	47.95
30	146.0	43.80
	<hr/>	
	456.67	

54.93

156+0		56	49.3	35.12
+50		52	49.7	35.22
157+0		48	50.1	35.32
+50		48	50.1	35.42
158+0		53	49.6	35.52
+14	= 1/4 H.C. Pay.	54	49.5	35.55
+26	= 1/4 " "	54	49.5	35.57
+50		56	49.3	35.62
159+0		52	49.7	35.72
+50		51	49.8	35.82
160+0		49	50.0	35.92
+50		50	49.9	36.02
161+00				

14.18				
14.33	50'	202.0	101.00	
14.48				
14.63	50'	206.0	103.00	
14.78				
14.73	50'	207.2	103.60	
14.68				
14.38	50'	202.7	101.35	
14.08				
14.02	14'	197.5	27.65	
13.95				
13.94	12'	196.5	23.58	
13.93				
13.8	24'	194.2	46.61	
13.68				
13.83	50'	194.6	97.30	
13.98				
13.98	50'	196.7	98.35	
13.98				
14.03	50'	198.0	99.00	
14.08				
13.98	50'	196.7	98.35	
13.88				
13.28	50'	187.0	93.50	
12.68				

993.29

Reg. Back Reg. Back  
1000 @.50

20

50 154.5 77.25

50 158.5 79.25

50 160.0 80.00

50 155.0 77.50

14 150. 21.00

12 149.2 17.90

24 147.0 35.28

50 147.3 73.65

50 149.7 74.85

50 150.2 75.10

50 ~~196.7~~ 98.35

50 140.0 70.00

780.63

161+0		6.1	488 ✓	36.12 ✓
+45		6.5	484 ✓	36.21 ✓
+90.00	442°55'lt	6.7	482 ✓	36.30 ✓
TP	2.87	6.50	484.3 ✓	36.29 ✓
162+0		3.1	482 ✓	36.32 ✓
+08		4.2	471 ✓	36.34 ✓
+16		2.5	488 ✓	36.35 ✓
+27	5/4 A.C. Paving	2.35	490 ✓	36.37 ✓
+50		1.82	495 ✓	36.42 ✓
+62	5/4 A.C. Paving	1.82	495 ✓	36.44 ✓
+77		1.7	496 ✓	36.47 ✓
163+0		4.7	466 ✓	36.52 ✓
+19		6.9	444 ✓	36.56 ✓
+50		7.4	439 ✓	36.62 ✓

54.93 ✓

005702107418  
161490

Cut	Av. Cut	Length	Av. Cy. / 100'	Exc. Cy.
12.68 ✓				
	12.43 ✓	45'	175.4	78.93
12.19 ✓				
	12.05 ✓	45'	170.3	70.63
11.9 ✓				
	11.89 ✓	10'	168.0	16.80
11.88				
	11.32 ✓	8'	160.0	12.80
10.76				
	11.6 ✓	8'	164.0	13.12
12.45				
	12.54 ✓	11'	177.2	19.49
12.63				
	12.85 ✓	23'	181.5	41.74
13.08				
	13.07 ✓	12'	184.0	22.08
13.06				
	13.09 ✓	15'	184.2	27.63
13.13				
	11.6 ✓	23'	164.0	37.72
10.08				
	8.96 ✓	19'	126.8	24.09
7.84				
	7.56 ✓	31'	121.6	37.70
7.28				
408.73				



Reg. BACK Reg. BACK  
1100' C-4

22

45 128.0 57.60

45 122.7 55.22

10 120.7 12.07

8 112.8 9.02

8 116.5 9.32

11 129.6 14.26

23 134.0 30.82

12 137.0 16.44

15 137.2 20.58

23 116.5 26.85

19 ~~79.0~~ 15.00

31 ~~61.2~~ 18.97

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286.15

163+50	(51.20)			
164+0		7.5	43.8 ✓	36.72 ✓
+50		6.9	44.4 ✓	36.82 ✓
165+0		6.6	44.7 ✓	36.92 ✓
+50		5.5	45.8 ✓	37.02 ✓
+75.68	Δ 45° 21' 30" pt	5.7	45.6 ✓	37.07 ✓
IP	10.20 (56.27)	5.28	(46.02)	07 Stub 194 165+75.68
166+0		9.6	46.6 ✓	37.12 ✓
+50		8.4	47.8 ✓	37.22 ✓
+63		8.2	48.0 ✓	37.25 ✓
+68		7.1	49.1 ✓	37.26 ✓
167+0		7.1	49.1 ✓	37.32 ✓
+50		6.2	50.0 ✓	37.42 ✓
168+0		5.2	51.0 ✓	37.52 ✓

Cut	Av. Cut	Length	Area	Exc
7.28 ✓	7.18 ✓	50'	101.0	50.50
7.08 ✓	3.0 ✓			
	7.28 ✓	50'	104.0	52.00
7.58 ✓	7.68 ✓	50'	109.5	54.75
7.78 ✓	8.28 ✓	50'	119.0	59.50
8.78 ✓	8.65 ✓	25.8	123.0	31.59
8.53 ✓	9.0 ✓	24.32	128.0	31.13
9.48 ✓				
	10.03 ✓	50'	141.2	71.10
10.58 ✓	10.66 ✓	13'	151.0	19.64
10.75 ✓	11.3 ✓	5'	156.0	7.80
11.84 ✓	11.81 ✓	32'	167.0	58.04
11.78 ✓	12.18 ✓	50'	172.0	86.00
12.58 ✓	13.03 ✓	50'	184.0	92.00
13.48 ✓				
				<hr/> 611.05

Req. Back Req. Back  
100' C.Y.

50 55.0 27.50

50 ~~56.2~~ 28.10

50 61.8 30.90

50 70.4 35.20

25.68 75.4 19.36

24.32 80.2 19.50

50 94.5 47.25

13 103.4 13.44

5 112.4 5.62

32 119.5 38.24

50 124.5 62.25

50 136.5 68.25

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395.61

24

168+00					
168+45		4.2	52.0	37.61	
+53	Wly Conc Culv.	11.4	44.8	37.63	
"	" Top Wall	10.01	46.21		
BM #13		9.93	46.29		
+53	" Bottom	12.97	43.25		
+60	Fl " Culv	12.92	43.30	37.64	
"	" Top Wall	9.99	46.23		
+60	Ground	10.3	45.9	37.64	
169+0		10.4	45.8	37.72	
+40.73		10.11	46.1	37.80	as set

<56.22>

8 p.w. wall  
Culvert  
115.8.16.8.15.3

Cut	Av. Cut	Length	Av. Cy	Exc
			100'	Cy
13.48	13.98	15	196.8	88.56
14.39				
	10.78	8	152.8	12.22
7.17				
	6.41	7	99.0	6.93
5.66				
<del>5.66</del>				
		0	106.2	
8.26				
	8.17	40	116.2	46.48
8.08				
	8.19	40.73	116.7	47.53
8.3				
				201.72

Reg. Back Reg. Builp

11001 C.Y

45 ~~147.8~~ 67.41

8 105.0 8.40

7 ~~51.4~~ 35.98

40 68.6 27.44

40.73 69.0 27.10

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166.33

Mission Valley Trunk Sewer After  
Constructed

BM	12.47	<15.10>	<32.62>	on 8/26/01 PR 123+75 9201 41
124+0		11.8	33.3 ✓	with 15/01 Insert Gr. 26.78
+50		11.1	34.0 ✓	26.8
125+0		9.2	35.9 ✓	26.9
+20		8.1	37.0 ✓	26.9
+50		3.2	41.9 ✓	27.0
+75		1.4	43.7 ✓	27.1
126+0		1.0	44.1 ✓	27.1
+50		0.7	44.4 ✓	27.2
TP	6.81	<51.47>	0.44	<14.66> ✓
127+0		6.3	45.2 ✓	27.3
+50		4.6	46.9 ✓	27.4
+75		3.6	47.9 ✓	27.5
128+0		4.4	47.1 ✓	27.5
+50		5.2	46.3 ✓	27.6
129+0 = M.H.		6.3	45.2 ✓	27.7
11	07 RIM	5.69	<45.78>	

Fill. *Edwards #4*

Dec. 12-17  
Sisson  
Riley  
Smith

	Fill	
125+21	7.85	
+30	12.0	
+50	14.9	
	16.6	
	17.0	
126+45	17.2	
+48	15.3	
127+04	16.29	
127+05	18.1	
+50	19.5	
+75	20.4	
128+00	19.6	
+50	18.7	
+80	17.9	
129	17.02	

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A page with a green grid pattern and a vertical red margin line on the left side. The page is otherwise blank.

Mission Valley Sewer  
East of City Bdry.

Sommermay &  
WME Coy  
W. Moore  
Estherman

173+96.64 38.72

173+58.60 M.H. #48 38.64

173+17.54 38.56

172+76.44 38.47

172+35.34 38.39

171+94.24 38.30

171+53.14 38.22

171+12.04 38.14

170+70.94 38.05

170+29.84 37.97

169+88.74 37.88

169+47.64 37.80

Cut Av. Cut Dist S.Y. C.Y. 29

8.1

7.6 38.04 108.3 41.2

7.1

7.1 41.06 101.5 41.72

7.1

7.55 41.1 108.5 44.59

8.0

7.65 41.1 109.0 44.8

7.3

6.75 41.1 96.5 39.66

6.2

5.6 41.1 86.8 33.2

5.0

4.8 41.1 69.6 28.6

4.6

4.8 41.1 69.6 28.6

5.0

6.0 41.1 86.2 35.43

7.0

7.3 41.10 104.2 42.82

7.6

7.5 41.10 107. 43.98

7.4

1124.60



<sup>Req.</sup> <sup>Req.</sup>  
~~Back.~~ ~~Back.~~  
 Dist 100' C.Yds.

38.04 91.5 34.81

41.06 84.4 34.65

41.1 91.0 37.40

41.1 92.2 37.90

41.1 79.5 32.68

41.1 63.6 26.14

41.1 52.5 21.58

41.1 52.5 21.58

41.1 69.0 28.36

41.1 87.4 35.92

41.1 90.0 36.99

---

348.01

06  
 =178+28.9A }  
 178+41.89 } M.H. #50

178+05.47

177+69.03

Tr. 2.6 6.75 5.11 5.17

177+32.59

176+96.15

176+59.71

176+23.27

175+86.83 MH #49

175+48.80

175+10.76

174+72.72

174+34.68

173+96.64

39.61

39.54

39.46

39.39

39.32

39.25

39.17

39.10

39.02

38.94

38.87

38.80

38.79

Cut	Av. Cut.	Dist	C.Y. /100'	Exc. 31 C.Y.
4.2				
	5.1	36.42	73.8	26.88
6.0				
	6.25	36.44	90.0	32.8
6.5				
	7.85	36.44	117.0	40.81
9.2				
	9.1	36.44	129.3	47.11
9.0				
	8.1	36.44	115.3	47.01
7.2				
	6.8	36.44	97.2	39.76
6.4				
	6.9	36.44	98.8	36.0
7.4				
	7.3	38.03	104.3	39.33
7.2				
	7.0	38.04	100.0	38.04
6.9				
	6.55	38.04	93.5	35.56
6.2				
	6.5	38.04	93.2	35.45
6.8				
	7.45	38.04	106.2	40.4
8.1				
				454.15

Dist	Req. Back	Req. Back C.Y.
36.42	56.8	20.70
36.44	77.5	26.42
36.44	95.0	34.12
36.44	112.3	40.92
36.44	98.4	35.86
36.44	80.2	29.22
36.44	82.8	30.17
38.03	87.4	33.24
38.04	83.2	31.55
38.04	77.0	29.30
38.04	76.0	28.91
38.04	89.5	34.04
		<u>374.95</u>

182+60	40.47
182+20	40.39
181+80	40.31
181+40	40.23
181+0	40.15
180+60	40.07
180+20	39.99
179+80	39.91
179+40	39.83
179+0	39.75
178+60	39.67

178+41.89

2.

51.49

Cut	Ar. Cut	Dist.	@ Yds / 100'	Exc. @ Yds.
	4.8			
	5.2	40	75.2	30.08
	5.6			
	6.8	40	97.2	38.88
	8.0			
	8.6	40	122.3	48.92
	9.2			
	7.95	40	113.3	45.32
	6.7			
	6.6	40	107.5	43.0
	6.5			
	6.25	40	103.6	41.44
	6.0			
	7.0	40	100.0	40.0
	8.0			
	7.65	40	109.4	43.76
	7.3			
	7.15	40	102.4	40.96
	7.0			
	7.2	40	103.0	41.2
	7.4			
	5.8	18.11	83.4	15.94
	4.2			

18.11

429.50

Req. Req.  
Back Back.  
Dist. 100' C.Y.

40 58.0 23.70

40 80.5 32.20

40 105.4 42.16

40 96.5 38.60

40 77.6 31.04

40 72.6 29.04

40 83.2 33.28

40 92.4 36.96

40 85.2 34.08

40 86.0 34.40

18.11 66.4 12.02

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346.98

281+77.7 41.43

281+38.8 41.35

281+11 41.21

280+99.9 0.87 55.27 41.27

280+61 41.70

280+22.10 41.12

=279+83.20 }  
185+42.86 } M.H.51 41.09

185+0 40.95

184+60 40.87

184+20 40.79

183+80 40.71

183+40 40.63

183+0 40.55

182+60 40.47

Cut	Av. Cut	Dist.	C.Yds /100'	Exc. C.Yds.	35
8.2					
	8.1	38.9	115.3	44.95	
8.0					
	7.9	38.9	112.6	43.80	
7.8					
	7.4	38.9	105.6	40.98	
7.0					
	7.2	38.9	103.0	40.07	
7.4					
	7.4	38.9	105.6	40.98	
7.4					
	6.5	42.86	93.4	40.2	
5.6					
	5.2	40	75.2	30.1	
4.8					
	4.6	40	66.8	26.72	
4.4					
	4.1	40	60.0	24.0	
3.8					
	3.5	40	51.5	20.6	
3.7					
	3.5	40	51.5	20.6	
3.8		40			
	4.3	40	62.6	25.04	
4.8					
				398.04	

Dist	Req. Back	Req. Back	C.Y.
38.9	98.4	38.27	
38.9	95.8	37.23	
38.9	88.8	34.54	
38.9	86.0	33.45	
38.9	88.8	34.54	
42.86	76.7	32.66	
40	58.0	23.20	
40	49.8	19.82	
40	42.8	17.12	
40	34.5	13.80	
40	34.5	13.80	
40	45.5	18.20	
		<u>316.63</u>	

286+0 3.5 51.2 42.27

285+60 1.5 53.2 42.19

285+20 1.7 53.0 42.11

284+80 3.3 51.4 42.03

T.P. 6231  
P 60 4.00 54.67 — 50.67

284+50.04 MH#52 41.97

284+11.1 41.89

283+72.2 41.81

283+33.3 41.74

282+94.4 41.66

282+55.5 41.58

282+16.6 41.50

281+77.7 50.9

Cut	Ar. Cut.	Dist.	C. yds / 100'	Exc. C. y.	37
8.93					
	9.97	40	141.4	56.56	
11.01					
	10.95	40	155.0	62.00	
10.89					
	10.13	40	143.4	57.36	
9.37					
	8.98	29.96	127.6	38.23	
				<u>214.15</u>	
8.5			<u>To 2/1</u>		
	8.85	38.94	126.0	47.94	
9.2					
	9.6	38.9	136.2	52.89	
10.0					
	10.0	38.9	141.8	56.16	
10.0					
	9.6	38.9	136.2	52.98	
9.2					
	9.1	38.9	130.8	50.88	
9.0					
	8.75	38.9	124.5	48.42	
8.5					
	8.35	38.9	119.0	46.29	
8.2					
		569.71		<u>355.56</u>	
				<u>214.15</u>	



Req. Req.  
Back. Back  
Dist. 1100' @.Y

40 124.5 49.80

40 138.0 55.20

40 156.6 50.64

29.96 110.8 33.20

38.94 109.0 42.44

38.9 119.0 46.29

38.9 124.8 48.45

38.9 119.0 46.29

38.9 112.4 43.72

38.9 107.5 42.07

38.9 102.0 39.58

497.68

290+80 43.23

290+40 43.15

290+0 43.07

289+60 42.99

289+20 42.91

288+80 3.3 51.4 42.83

288+40 4.4 50.3 42.75

288+0 4.7 50.0 42.67

287+60 5.1 49.6 42.59

287+20 5.0 49.7 42.51

286+80 5.0 49.7 42.43

286+40 4.4 50.3 42.35

286+0 54.67

Cot Av. Cut. Dist. C.Y. Ex. 39  
/100' C.Y.

10.0

10.05 40 142.5 57.00

10.1 9.9 40 141.6 56.64

9.7 9.65 40 137.0 54.80

9.6 9.65 40 137.0 54.80

9.7 9.1 40 129.4 51.68

8.51 8.03 40 114.4 45.76

7.55 7.49 40 107.0 42.80

7.43 7.22 40 103.0 41.20

7.01 7.10 40 101.6 40.64

7.19 7.23 40 103.0 41.20

7.27 7.61 40 109.0 43.60

7.95 8.44 40 140.3 48.12

8.93 578.24

Dist	Req. Back. 100'	Req. Back. C.Y.
------	-----------------	-----------------

40 125.5 50.70

40 173.4 49.32

40 120.0 48.00

40 170.0 48.00

40 112.4 44.96

40 97.4 38.96

40 90.0 36.00

40 86.0 34.40

40 84.5 33.80

40 86.4 34.56

40 91.6 36.64

40 103.0 41.20

496.04

295+40		44.15
295+0		44.07
294+550	M.H. #54	43.98
294+15 <sup>67</sup>		43.90
293+76 <sup>34</sup>		43.82
293+37 <sup>91</sup>		43.75
292+97 <sup>68</sup>		43.67
292+58 <sup>35</sup>	M.H. #53	43.59
292+40		43.55
292+0		43.47
291+60		43.39
291+20		43.31
290+80		

Cut	Av. Cut	Dist	C.Y. /100'	Exc. C.Y.	41
4.8					
	4.7	40	68.0	27.20	
4.6					
	4.5	45	65.3	29.39	
4.4					
	4.5	39.33	71.0	27.82	↑
4.6					
	4.3	39.33	68.0	26.74	24"
4.0					
	5.0	39.33	79.1	31.23	Conc. Exc.
6.0					
	6.5	39.33	100.0	39.33	
7.0					
	7.9	39.33	119.5	47.00	
8.8					
	8.65	18.35	123.0	22.57	↓
8.5					
	7.95	40	113.4	45.36	
7.4					
	7.7	40	110.0	44.00	
8.0					
	8.65	40	123.4	49.36	
9.3					
	9.65	40	137.0	54.80	
10.0					
					114.80

Dist.	Req. Back /100'	Req. Back @.Y.
40	51.0	20.40
45	48.0	31.60
39.33	27.0	10.64
39.33	24.0	9.54
39.33	34.0	13.37
39.33	54.5	21.43
39.33	74.0	29.10
18.35	106.0	19.45
40	96.5	38.60
40	93.0	37.20
40	106.0	42.40
40	120.0	48.00
		<hr/> 321.69

300+20

45.11

7.0

6.8

40

97.2

38.88

299+80

45.03

6.6

6.3

34.28

90.4

30.98

299+43<sup>72</sup> M.H. 55

44.96

6.0

5.7

43.72

82.0

35.85

299+0

44.87

5.4

5.3

40

76.6

30.64

298+60

44.79

5.2

5.4

40

78.0

31.20

298+20

44.71

5.6

5.7

40

82.0

32.80

297+80

44.63

5.8

6.0

40

86.2

34.48

297+40

44.55

6.2

6.3

40

90.4

36.16

297+0

44.47

6.4

6.2

40

89.0

35.60

296+60

44.39

6.0

5.7

40

82.0

32.80

296+20

44.31

5.4

5.3

40

76.6

30.64

295+80

44.23

5.2

5.0

40

72.3

28.92

295+40

4.8

398.96

Cut	Ac.Cut.	Dist.	Av. Cy / 100'	Exc. Cy
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43

Dist.	Req. Back /100'	Req. Back C.Y
40	80.4	32.08
34.28	73.4	25.10
43.72	65.0	28.42
40	59.4	23.76
40	60.8	24.32
40	65.0	26.00
40	69.0	27.60
40	73.4	29.28
40	72.0	28.80
40	65.0	26.00
40	59.4	23.76
40	55.4	22.08
		<u>317.20</u>

304+80 9.2 56.5 46.19

304+40 5.5 60.2 46.03

304+0 M.H.#56 4.8 60.9 45.87

303+80 5.6 60.1 45.83

303+40 6.4 59.3 45.75

303+0 7.9 57.8 45.67

+75 11.0 54.7 45.62

302+60 11.2 54.5 45.59

B.M.#1  
Q.231 P. 80 12.61 65.67 — 53.00

302+20 45.51

301+80 45.43

301+40 45.35

301+0 45.27

300+60 45.19

300+20

Av. C.Y. Exc 45

Cut Av. Cut Dist /100' C.Y.

10.31 19.24 40 158.4 63.36

14.17 14.6 40 189.4 75.76

15.03 14.65 20 206.4 41.38

14.27 13.91 40 196.0 78.40

13.55 12.84 40 182.4 72.88

12.13 10.1 25 143.2 35.80

9.08 9.0 15 128.0 19.20

8.91 9.05 40 128.4 51.36

9.2 9.2 40 130.6 52.24

9.2 8.7 40 121.0 49.60

8.2 7.75 40 110.5 44.20

7.3 7.2 40 103.0 41.20

7.1 7.05 40 101.0 40.40

7.0 665.68

21" ↑

24"



88

Dist	Req. Back /100'	Req. Back @.4
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40	145.5	58.20
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40	176.0	70.40
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20	188.0	37.60
----	-------	-------

40	179.0	71.60
----	-------	-------

40	165.4	66.16
----	-------	-------

25	126.0	31.50
----	-------	-------

15	111.0	16.65
----	-------	-------

40	111.4	44.56
----	-------	-------

10	114.0	45.60
----	-------	-------

40	107.0	42.80
----	-------	-------

40	98.0	39.20
----	------	-------

40	85.8	34.32
----	------	-------

40	84.0	33.60
----	------	-------

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592.19

46

309+60		4.0	55.6	48.11
309+20		5.1	54.5	47.95
308+80		5.2	54.2	47.79
308+40		6.5	53.1	47.63
308+0		5.9	53.7	47.47
307+60		5.5	54.1	47.31
307+20		5.5	54.1	47.15
T.P.	3.12	59.57	9.22	56.45
306+80		9.2	56.5	46.99
306+40		7.4	58.3	46.83
306+0		10.9	54.8	46.67
305+60		11.1	54.6	46.51
305+20				46.35
		11.1	54.6	
304+80		<u>65.67</u>		

Cut	AvCut	Dist	Av.C. Exc. 47 /100' 0.1	
7.49				
7.47	40	97.7	39.08	
7.45				
6.93	40	91.0	36.40	
6.41				
5.94	40	78.4	31.36	
5.47				
5.85	40	77.2	30.88	
6.23				
6.51	40	85.6	34.24	
6.79				
6.87	40	90.0	36.00	
6.95				
8.23	40	107.4	42.96	
9.51				
10.49	40	136.4	54.56	
11.47				
9.8	40	130.0	52.00	
8.13				
8.11	40	106.0	42.40	
8.09				
8.17	40	106.6	42.64	
8.25				
9.78	40	127.2	50.88	
10.31				
			<u>493.40</u>	

Dist	Req. Back	Req. Back
	100'	O.Y.
40	84.6	33.84
40	78.0	31.20
40	68.4	27.36
40	64.0	25.60
40	72.8	29.12
40	77.0	30.80
40	94.6	37.84
40	113.6	49.44
40	114.6	45.84
40	93.0	37.20
40	93.6	37.44
40	114.4	45.76
		<hr/> 431.44

316+0	11.3	58.0	50.01	
315+60	10.0	59.3	49.85	
315+20	9.1	60.2	49.69	
314+80	9.1	60.2	49.53	
314+40	11.0	58.3	49.37	
314+0	11.3	58.0	49.21	
313+60	12.3	57.0	49.05	
313+20	12.9	56.4	48.89	
312+80	13.2	56.1	48.73	
312+40	13.3	56.0	48.57	
T.P.	11.88	69.28	2.17	57.40
= 312+00	} $\Delta 8^{\circ} 45' - 304^{\circ}$			
310+35.99		} M.H.*57	2.1	57.5
310+0	3.3		56.3	48.27
309+60	59.57			

Cut	Alt	Dist	Av. C.Y. /100'	Exc. C.Y.
6.99				
7.22	40		94.6	37.84
9.45				
9.98	40		130.0	52.00
10.51				
10.59	40		137.6	55.04
10.67				
9.8	40		127.6	51.04
8.93				
8.86	40		115.5	46.20
8.79				
8.37	40		109.4	43.76
7.95				
7.73	40		101.0	40.40
7.51				
7.44	40		97.4	38.86
7.37				
7.40	40		97.0	38.80
7.43				
8.26	40		107.8	43.12
9.09				
8.56	35.99		111.6	40.16
8.03				
7.76	40		101.5	40.60
7.49				
				<u>527.82</u>

Dist	Req. Back /100'	Req. Back @.V
40	81.8	32.72
40	117.0	46.80
40	174.8	49.92
40	114.6	45.84
40	102.6	41.04
40	96.4	38.56
40	88.0	35.20
40	84.5	33.80
40	84.0	33.60
40	95.0	38.00
35.99	98.6	32.49
40	88.5	35.40
		<u>463.37</u>

				Invert. Gr.
T.M	8.71	<u>67.98</u>	1.75	59.27
320+40			1.8	59.2 53.09
320+0			2.1	58.9 52.73
319+60			1.2	59.8 52.37
319+20			1.4	59.6 52.01
318+80			1.8	59.2 51.65
318+40			4.4	56.6 51.29
318+0			5.2	55.8 50.93
<sup>41</sup> 10 <sup>23</sup> AT. OF. M.H.			4.82	56.20
317+76 <sup>87</sup> # M.H. 58			5.4	55.6 50.72
317+60			5.3	55.7 50.65
317+20			4.3	56.7 50.49
316+80			3.8	<sup>5</sup> 67.2 50.33
316+40			3.7	57.3 50.17
T.P.	2.85	<u>61.02</u>	11.11	58.17
316+00		69.28		

Out	Acct	Dist	Av. C.Y. /100	Exc. C.Y.	51
6.11					
	6.14	40	74.0	29.60	
6.17					
	6.80	40	81.8	32.72	
7.43					
	7.51	40	90.0	36.00	
7.59					
	7.57	40	90.6	36.24	
7.55					
	6.43	40	77.3	30.92	
5.31					
	5.09	40	61.6	24.64	
4.87					
	4.88	73.13	59.0	13.63	18"
4.88					
	4.96	16.87	65.4	11.03	<del>21"</del>
5.05					
	5.63	40	74.5	29.80	
6.21					
	6.54	40	86.0	34.40	
6.87					
	7.0	40	91.8	36.72	
7.13					
	7.06	40	92.5	37.00	
6.99					
					<u>352.70</u>

Req. Req.  
Back Back.  
Dist. 1100' 0.4

40 64.0 25.60

40 71.8 28.72

40 80.2 32.08

40 81.0 32.40

40 67.4 26.96

40 57.8 23.12

23.13 49.4 11.43

16.87 52.6 8.87

40 61.0 24.40

40 72.0 28.80

40 78.8 31.52

40 79.8 31.92

303.42

32A+80					56.73
32A+40					56.57
32A+15 <sup>31</sup>	M.H. #59				56.55
B.M. P. 65					56.47
Q 231	11.11	7.18	7.18	60.50	60.40
32A+0		4.6	63.4		56.33
323+60		4.8	63.2		55.97
323+20		5.1	61.9		55.61
322+80		5.1	62.9		55.25
322+40		5.8	62.2		54.89
322+0		6.3	61.7		54.53
321+60		7.3	60.7		54.17
321+20		8.3	59.7		53.81
320+80		8.7	59.3		53.45
320+40					67.98

Cut.	Av. Cut	Dist	C.Y. / 100'	Exc. C.Yats	
7.6					
7.2	40		94.2	37.48	
6.8					
6.9	24.69		90.6	22.46	
7.0					
7.03	15.31		84.0	12.86	21'
7.07					18'
7.15	40		85.8	34.32	
7.23					
6.76	40		81.2	32.48	
6.29					
6.97	40		83.6	33.44	
7.65					
7.48	40		90.6	36.24	
7.31					
7.24	40		86.7	34.68	
7.17					
6.85	40		82.0	32.80	
6.53					
6.16	40		74.0	29.60	
5.89					
5.87	40		70.7	28.28	
5.85					
5.98	40		72.0	28.80	
6.11					
	373.64			313.50	



82

Dist	Req. Back	Req. Back
	100'	C.Y.

40 81.4 31.56

24.69 77.5 19.13

15.31 74.4 10.39

40 76.0 30.40

40 71.5 28.60

40 63.8 25.52

40 80.0 32.00

40 77.4 30.96

40 72.5 29.00

40 65.4 25.76

40 61.0 24.40

40 62.0 24.80

313.52

54

329+50	58.61
329+20	58.49
328+80	58.33
328+40	58.17
328+0	58.01
327+60	57.85
327+20	57.69
326+80	57.53
326+40	57.37
326+0	57.21
325+60	57.05
325+20	56.89
324+80	56.73

Exc 55

Cut	Av. Cut	Dist	Q.Y. /100'	Exc Q.Y.
9.0				
	9.1	30	118.6	35.58
9.2				
	9.4	40	122.6	49.04
9.6				
	9.6	40	125.0	50.00
9.6				
	9.5	40	124.0	49.60
9.4				
	9.5	40	124.0	49.60
9.6				
	9.3	40	121.2	48.48
9.0				<del>282.30</del>
	9.0	40	129.0	51.6
9.0				
	8.9	40	128.9	51.56
8.8				
8.7				
	8.5	40	111.0	44.4
8.7				
	8.2	40	107.0	42.8
8.7				
	8.1	40	106.0	42.4
8.0				
	7.8	40	102.0	40.8
7.6				
			555.86	273.56
				<del>282.30</del>

Req. Req.  
Back Back.  
Dist /100' C.Y.

30 105.8 31.74

40 109.8 43.92

40 112.0 44.80

40 110.8 44.32

40 110.8 44.32

40 108.4 43.36

40 104.5 41.76

40 103.2 41.28

40 98.0 39.20

40 94.2 37.68

40 93.0 37.20

40 89.0 35.60

485.18

334+20			3.9	68.2	60.45
T.P.	3.94	<u>72.10</u>	4.54	68.16	
333+80			4.5	68.2	60.29
333+40			4.7	68.0	60.13
333+0			5.2	67.5	59.97
332+60			5.4	67.3	59.81
332+20			5.5	67.2	59.65
331+80			5.5	67.2	59.49
331+40			5.8	66.9	59.33
331+0			5.9	66.8	59.17
K. From C.B. 331-P.		72.70			
330+60					59.01
330+20					58.85
= 329+90					
329+80 <sup>23</sup>					58.73
329+50					

M.H.#  
60

Cut	Ar.Cut.	Dist	Av.C.V. /100'	Exc C.V.
7.75				
	7.83	40	102.4	40.88
7.91				
	7.89	40	103.0	41.20
7.87				
	7.7	40	101.0	40.40
7.53				
	7.51	40	98.2	39.28
7.49				
	7.47	40	98.0	39.20
7.55				
	7.63	40	100.0	40.00
7.71				
	7.64	40	100.0	40.00
7.57				
	7.6	40	99.6	39.84
7.63				
	7.61	40	99.7	39.88
7.6				
	8.0	40	104.5	41.80
8.4				
		30		33.66
	8.6		112.2	
8.8				
	8.9	30.03	116.0	35.15
9.0				
		200.33		471.29

58

Dist	Req. Back /100'	Req. Back @.y.
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40	89.7	35.68
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40	88.8	35.52
----	------	-------

40	88.0	35.20
----	------	-------

40	85.4	34.16
----	------	-------

40	85.0	34.00
----	------	-------

40	87.0	34.80
----	------	-------

40	87.7	34.88
----	------	-------

40	86.5	35.20
----	------	-------

40	86.6	34.64
----	------	-------

40	91.8	36.72
----	------	-------

30	99.7	29.76
----	------	-------

30.03	103.7	31.27
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411.83

58

338+80 4.8 74.9 62.32

338+40 5.0 74.7 62.16

338+0 5.2 74.5 61.99

337+60 6.4 73.3 61.83

337+20 7.4 72.3 61.67

336+80 8.1 71.6 61.50

336+40 10.1 69.6 61.34

336+0 10.5 69.2 61.17

336+25 P.O.T. 1/2 10.60

335+60 P.O.T. MH.#61 11.8 67.9 61.01

Pole 79761 4.125 79.69 75.44

1070-D-shoot 4 335+30 3.8 68.3 60.89

335+0 4.0 68.1 60.77

334+60 4.0 68.1 60.61

334+20 72.10

Av. C.Y. Exc 59

Out	Av. Dist.	Dist.	/100'	C.Y.
12.58				
17.56	40	162.6		65.04
12.54				
17.52	40	162.3		64.92
12.51				
11.99	40	155.4		62.16
11.47				
11.05	40	143.5		57.40
10.63				
10.37	40	134.8		53.92
10.1				
9.18	40	119.8		47.92
8.26				
8.15	40	106.6		42.64
8.03				
7.46	40	97.7		39.08
6.89				
7.15	30	94.0		28.20
7.41				
7.37	30	96.6		28.98
7.33				
7.41	40	97.0		38.80
7.49				
7.62	40	99.8		39.92
7.75				<u>568.98</u>

Req. Back Req. Back  
Dist / 100' C.Y.

40 149.8 59.92

40 149.2 59.68

40 141.3 56.52

40 130.5 52.20

40 121.8 48.72

40 106.8 42.72

40 93.5 37.40

40 84.6 33.84

30 80.6 24.18

30 83.6 25.08

40 84.0 33.60

40 87.0 34.80

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508.66

343+02		15.5	64.2	65.19
+83		9.7		
342+68		10.6	69.1	64.85
+51	Edge Pav.	11.0		
342+34	on. pav	11.1	69.6	64.51
+19.	Edge pav.	11.6		
342+0		10.3	69.4	64.17
+80		5.3		
341+66		4.9	74.8	63.83
341+32 <sup>00</sup>	M.H. #62	4.4	75.3	63.49 63.36
341+20		4.5	75.2	63.31
340+80		4.0	75.7	63.14
340+40		4.0	75.7	62.98
340+0		4.3	75.4	62.81
339+60		4.5	75.2	62.65
339+20		4.9	74.8	62.49
338+80				
	79.69			

Ar. C.Y. Exc. 61

Cut	Ar. C.Y.	Dist.	100'	C.Y.	
9.01					
6.63	34	87.2	29.65		
4.25					
4.17	34	55.7	18.94		
4.09					
4.66	34	62.0	21.08		
5.23					
8.10	34	93.2	31.69		
10.97					
10.97	34	130.0	44.20		44'
11.87					18" 1/2
11.88	12	154.0	18.48		21"
11.89					
12.22	40	158.4	63.36		
12.56					
12.62	40	164.0	65.60		
12.72					
12.65	40	164.0	65.60		
12.59					
12.57	40	163.0	65.20		
12.55					
12.43	40	161.0	64.40		
12.31					
12.45	40	161.4	64.56		
12.58					
				552.76	

342+00 To 342+80 Conc. Enc.

To MH 63 C.I. 18"

44'

18" 1/2

21"



13

Dist	Req. Back 100'	Req. Back C.Y.
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34	65.4	22.24
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34	75.0	8.50
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34	30.0	10.20
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34	87.2	29.65
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34	170.2	40.87
----	-------	-------

12	141.0	16.92
----	-------	-------

40	145.2	58.08
----	-------	-------

40	150.8	60.32
----	-------	-------

40	151.0	60.40
----	-------	-------

40	150.0	60.00
----	-------	-------

40	148.3	59.32
----	-------	-------

40	148.5	59.40
----	-------	-------

485.90

346+40 5.1 74.5 66.29

346+0 5.1 74.2 66.25

345+60 6.0 73.6 66.21

345+20 6.1 73.5 66.17

344+80 6.6 73.0 66.13

344+40 6.6 73.0 66.09

344+0 7.8 71.8 66.05

T.P. 7.70 79.55 7.84 71.85

= 343+86.13 } MH. # 63 66.04

343+76.97 } 8.5 71.1 65.94

343+58 14.1 65.6 65.75

343+42 24.0 55.7 65.59

343+18 25.0 54.7 65.35

343+0 79.69

Av.C. Y. Exc. 63  
Cut Av.Cut Dist 100' Q.Y.

8.21

8.08 40 124.6 49.84

7.95

7.67 40 118.5 47.40

7.39

7.36 40 113.4 45.44

7.33

7.10 40 110.0 44.00

6.87

6.94 40 107.5 43.00

6.91

6.33 40 98.4 39.36

5.75

5.18 13.87 81.0 11.23

4.61

18.97

27"

- .85

16

18"  
C.I.

- 9.89

24

- 10.65

16

9.01

280.27

	Req Back	Req Back
Dist.	100'	0.4

40 103.0 41.20

40 97.0 38.80

40 92.2 36.88

40 88.4 35.36

40 86.0 34.40

40 77.0 30.80

13.87 61.0 8.16

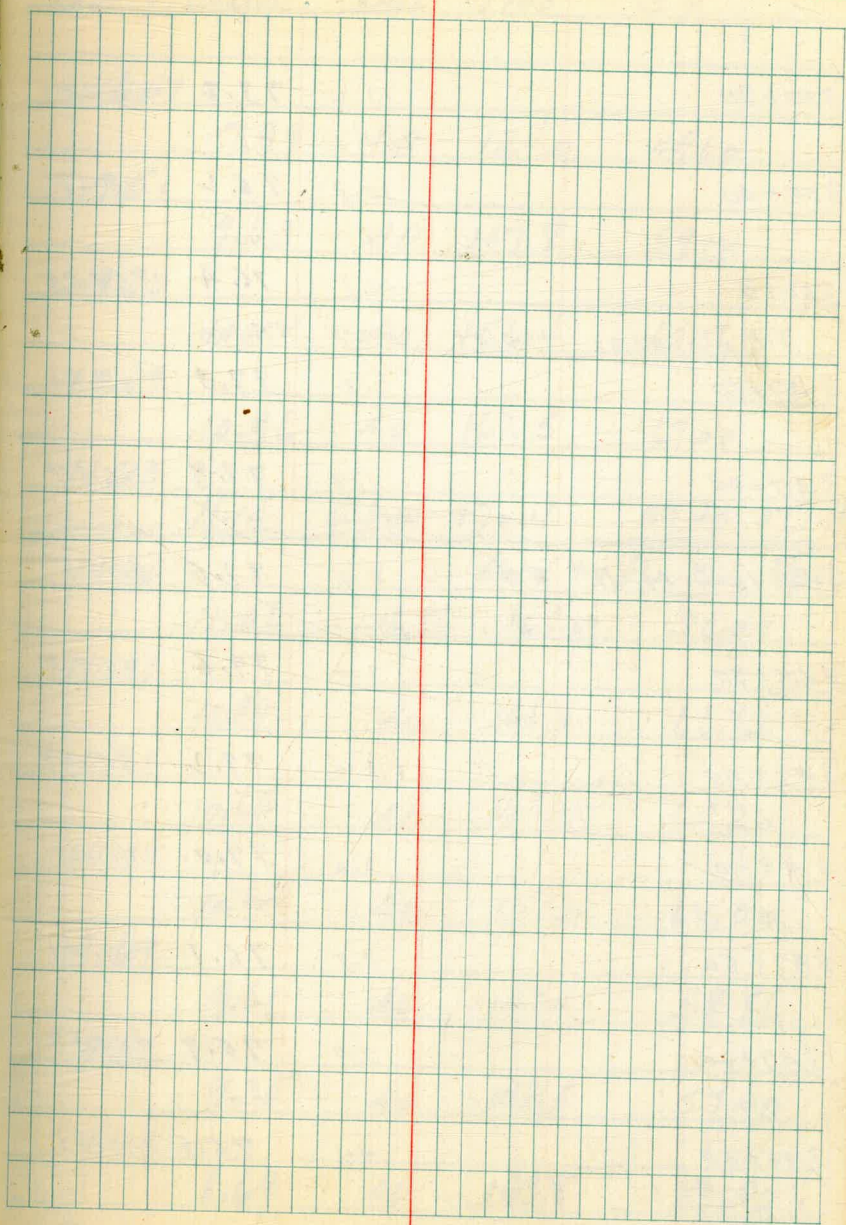
18.97

16

24

16

225.90



350+80			13.2	73.2	66.73
350+40			10.3	76.2	66.69
350+0			10.1	76.4	66.65
T.P.	7.83	86.51	8.87	78.68	
349+60			2.3	77.3	66.61
349+20			1.8	77.8	66.57
348+96 <sup>86</sup>	M.H.# 64		2.0	77.6	66.55
348+80			2.0	77.6	66.53
348+40			2.1	77.2	66.49
348+0			2.6	77.0	66.45
347+60			3.5	76.1	66.41
347+20			3.7	75.9	66.37
346+80			4.1	75.5	66.33
					79.55
346+40					

65

Cut	Av. Dist.	Dist.	Av. C.Y. / 100'	Exc. C.Y.
			6.47	
		40	7.99	124.0
		40	9.51	49.60
		40	9.63	147.8
		40	9.75	59.12
		40	10.52	156.4
		40	10.69	62.56
		40	10.96	167.5
		40	11.23	67.00
		23.14	11.14	170.4
				39.43
				277.71
			11.05	End of Period 2/29
		40	11.06	16.86
		40	11.07	169.0
		40	10.89	28.49
		40	10.71	166.8
		40	10.63	66.72
		40	10.55	163.0
		40	10.12	65.20
		40	9.69	155.0
		40	9.61	62.00
		40	9.53	147.4
		40	9.35	58.86
		40	9.17	143.5
		40	8.69	57.40
		40		133.8
		40		53.52
			8.21	
				392.19

Req. Req.  
Back. Back.  
Dist / 100' C.Y.

40 101.6 40.64

40 126.0 50.40

40 135.0 54.00

40 146.0 58.40

73.14 148.8 34.43 237.87

End of Period 3/1/48

16.86 147.6 24.88

40 146.8 58.72

40 141.3 56.52

40 133.4 53.36

40 126.0 50.40

40 122.0 48.80

40 112.0 42.80

337.48

355+60 3.8 88.9 67.21

355+20 4.6 88.1 67.17

354+80 5.7 87.0 67.13

354+40 6.9 85.8 67.09

T.P. 7.08 92.69 0.90 85.61  
100 ft. of L  
354+0 M.H. #65 1.2 85.3 67.05

353+60 2.1 84.4 67.01

353+20 4.0 82.5 66.97

352+80 12.9 73.6 66.93

352+40 9.4 77.1 66.89

352+0 7.2 79.3 66.85

351+60 12.4 73.1 66.81

351+20 13.6 72.9 66.77

350+80

86.51

C.Y. Exc. 67  
C.Y.

Cut	Av. Cut	Dist	/100'	C.Y.	Exc.
21.69					
21.31	40	319.		127.60	
20.93					
20.40	40	308.		123.20	
19.87					
19.29	40	292.0		116.80	
18.71					
18.48	40	280.0		112.00	
18.25					
17.82	40	270.0		108.00	
17.39					
16.46	40	249.6		99.84	
15.53					
11.10	40	169.8		67.92	
6.67					
8.44	40	130.0		52.00	
10.21					
11.33	40	173.0		69.20	
14.45					
9.37	40	143.8		57.52	
6.29					
6.21	40	96.5		38.60	
6.13					
6.30	40	98.0		39.20	
6.47					
					1011.88

63

Dist	Back 1100'	Req. Back @.Y.
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40	295.0	118.00
----	-------	--------

40	284.0	115.20
----	-------	--------

40	270.8	108.32
----	-------	--------

40	258.8	103.52
----	-------	--------

40	249.0	99.60
----	-------	-------

40	238.5	95.40
----	-------	-------

40	148.7	59.30
----	-------	-------

40	108.3	43.32
----	-------	-------

40	151.4	60.56
----	-------	-------

40	122.0	48.80
----	-------	-------

40	75.0	30.00
----	------	-------

40	76.7	30.48
----	------	-------

912.50

360+40		5.9	79.5	67.69
360+0		5.3	79.1	67.65
359+60		5.3	79.1	67.61
2' 4" of 237 Nail in pole	3.59	84.39	11.89	80.80
359+20		13.3	79.4	67.57
358+80		12.3	80.4	67.53
358+40		11.0	81.7	67.49
358+0		10.5	82.2	67.45
357+60		8.7	84.0	67.41
357+20		7.6	85.1	67.37
356+80		6.4	86.3	67.33
356+40		4.9	87.8	67.29
356+0		4.0	88.7	67.25
355+60	92.69			

Av. C.Y. Exc.  
C.Y.

Cut	Av. Cut	Dist	Av. C.Y. / 100'	Exc. C.Y.
11.81				
	11.63	40	177.4	70.96
11.45				
	11.47	40	175.0	70.00
11.49				
	11.61	40	177.3	70.92
11.83				
	12.35	40	188.5	75.40
12.87				
	13.54	40	206.0	82.40
14.21				
	14.48	40	220.0	88.00
14.75				
	15.67	40	238.0	95.20
16.59				
	17.16	40	260.4	104.16
17.73				
	18.35	40	278.0	111.20
18.97				
	19.74	40	299.0	119.60
20.51				
	20.98	40	315.0	126.00
21.45				
	21.57	40	322.0	128.80
21.69				
				1,142.64



Dist	Req. Back 100'	Req. Back C.V
10	156.0	62.40
10	153.5	61.40
10	155.8	62.32
10	166.6	66.64
10	184.6	73.84
10	199.0	79.60
10	216.4	86.56
10	239.0	95.60
10	256.4	102.56
10	277.3	111.00
10	296.0	118.40
10	305.0	122.00
		<u>1042.32</u>

365+65<sup>72</sup> M.H. #67 5.6 74.6 68.13

365+30 6.6 73.6 68.09

364+94<sup>29</sup> 6.1 74.1 68.06

384+58<sup>57</sup> 4.7 75.5 68.02

364+22<sup>86</sup> 3.4 76.8 67.99

363+87<sup>14</sup> 3.6 76.6 67.95

363+51<sup>42</sup> 3.1 77.1 67.91

363+15<sup>71</sup> 4.7 75.5 67.88

T.P. 5.78 80.19 9.98 74.41

362+80<sup>00</sup> } M.H. #66  
361+88.60 } 9.8 74.6 67.84

361+60 7.9 76.5 67.81

361+20 6.5 77.9 67.77

360+80 6.4 78.0 67.73

360+40 8439

Cut	Av. Cut	Dist	Av. C.Y. / 100'	Exc C.Y.
5.47				
5.49	35.72	86.0	30.72	
5.51				
5.77	35.71	89.6	32.00	
6.04				
6.76	35.72	104.6	37.36	
7.48				
8.15	35.71	125.5	44.82	
8.81				
8.73	35.72	134.2	47.93	
8.65				
8.92	35.71	137.0	48.92	
9.19				
8.40	35.72	129.4	46.33	
7.62				
7.19	35.71	111.0	39.64	
6.76				
7.22	28.60	119.0	34.03	
8.69				
8.91	40	137.0	54.80	
9.13				
9.70	40	148.8	59.52	
10.27				
11.04	40	168.4	67.42	
11.81				543.39

Dist Req. Back Req. Back.  
/100' C.Y.

35.72 64.0 22.86

35.71 68.4 24.42

35.72 83.0 29.65

35.71 104.0 37.14

35.72 112.8 40.29

35.71 115.8 41.35

35.72 108.0 38.57

35.71 89.8 32.07

28.60 98.0 28.00

40 115.3 46.12

40 127.2 50.88

40 147.3 58.92

460.27

369+70		4.8	71.5	68.93
369+30		4.8	71.5	68.85
368+90		6.1	70.2	68.77
368+50		6.3	70.0	68.69
368+10 <sup>30</sup>	Pier # 4	3.2	73.1	68.61
368+1				
367+94 <sup>30</sup>	Pier # 3	14.4	61.9	68.58
367+71 <sup>00</sup>	Pier # 2	15.7	61.6	68.53
367+53 <sup>70</sup>	Pier # 1	3.3	73.0	68.50
	3.89	<u>76.28</u>	7.80	72.39
367+16 <sup>12</sup>		8.9	71.3	68.43
366+78 <sup>52</sup>		7.4	72.8	68.36
366+40 <sup>92</sup>		6.6	73.6	68.28
366+03 <sup>32</sup>		6.8	73.4	68.20
365+65 <sup>72</sup>				
		<u>80.19</u>		

73

Cont	Ar. Cont.	Dist	Ar. C.Y. / 100'	Exc. C.Y.
	2.57			
	2.61	40	39.0	15.60
	2.65			
	2.04	40	31.4	12.56
	1.43			
	1.37	40	21.8	8.72
	1.31			
	2.90	39.7	43.0	17.07
	1.19			
	4.50			
	3.68	37.58	54.0	20.29
	2.87			
	3.65	37.60	53.5	20.12
	4.40			
	4.88	37.60	70.8	26.62
	5.32			
	5.26	37.60	76.0	28.58
	5.20			
	5.33	37.60	77.0	28.95
				178.51
5.47		Req. - 24" Pipe To MH. 68		

87

Dist	Req. Back 100'	Req. Back 0.4
------	----------------------	---------------------

40	22.5	9.00
----	------	------

40	14.10	5.64
----	-------	------

40	9.70	3.68
----	------	------

39.7	25.0	9.93
------	------	------

37.58	36.4	13.60
-------	------	-------

37.60	36.0	13.54
-------	------	-------

37.60	53.6	20.14
-------	------	-------

37.60	58.5	21.40
-------	------	-------

37.60	60.0	22.56	119.49
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Req. 24" Pipe To M.H. 68

74

Av.C.Y. Exc.

75

Cut Av.Cut Dist /100' C.Y.

B.M. on Hd  
wall culvert

3.00 73.28 <sup>a.k.</sup> ~~73.28~~

0+00

=0+00 (See book # 1843 Page 1 69.13

370+50 M.H. 68 4.6 71.7 69.10

370+10 4.8 71.5 69.01

369+70

76.28

FOR CONTINUATION OF LINE  
SEE F.B. 1843 - 1

2.6

2.55 40 38.4 15.36

2.49

2.53 40 38.0 15.20

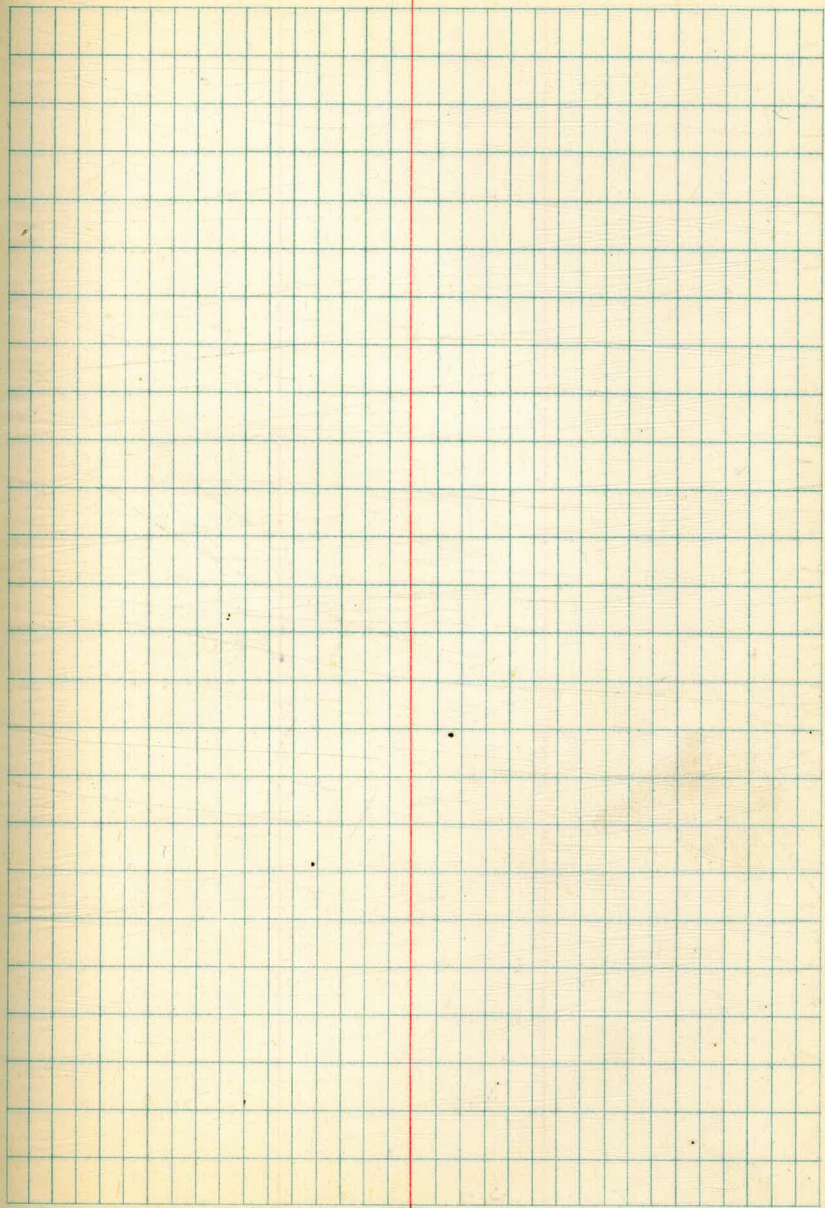
2.57

30.56

Dist.	Req. Back	Req. Back
	100'	c.y

40	40.0	8.00
----	------	------

40	20.0	8.00
		<u>16.00</u>



A table on page 76 with 4 columns and 20 rows. The columns are defined by vertical red lines, and the rows by horizontal blue lines. The table is currently empty.

A table on page 77 with 1 column and 20 rows. The column is defined by a vertical red line, and the rows by horizontal blue lines. The table is currently empty.



Blank lined page with four vertical red margin lines.

Blank grid page with a vertical red margin line on the left side.

Blank ledger page with horizontal blue lines and vertical red margin lines.

Blank grid page with horizontal blue lines, vertical green lines, and a vertical red margin line.

65-67

DISTANCES FROM CENTER OF ROADWAY FOR  
CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1½  
For Single Track Embankment.

H	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	H
0	8.0	8.2	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.4	0
1	9.5	9.7	9.8	10.0	10.1	10.3	10.4	10.6	10.7	10.9	1
2	11.0	11.2	11.3	11.5	11.6	11.8	11.9	12.1	12.2	12.4	2
3	12.5	12.7	12.8	13.0	13.1	13.3	13.4	13.6	13.7	13.9	3
4	14.0	14.2	14.3	14.5	14.6	14.8	14.9	15.1	15.2	15.4	4
5	15.5	15.7	15.8	16.0	16.1	16.3	16.4	16.6	16.7	16.9	5
6	17.0	17.2	17.3	17.5	17.6	17.8	17.9	18.1	18.2	18.4	6
7	18.5	18.7	18.8	19.0	19.1	19.3	19.4	19.6	19.7	19.9	7
8	20.0	20.2	20.3	20.5	20.6	20.8	20.9	21.1	21.2	21.4	8
9	21.5	21.7	21.8	22.0	22.1	22.3	22.4	22.6	22.7	22.9	9
10	23.0	23.2	23.3	23.5	23.6	23.8	23.9	24.1	24.2	24.4	10
11	24.5	24.7	24.8	25.0	25.1	25.3	25.4	25.6	25.7	25.9	11
12	26.0	26.2	26.3	26.5	26.6	26.8	26.9	27.1	27.2	27.4	12
13	27.5	27.7	27.8	28.0	28.1	28.3	28.4	28.6	28.7	28.9	13
14	29.0	29.2	29.3	29.5	29.6	29.8	29.9	30.1	30.2	30.4	14
15	30.5	30.7	30.8	31.0	31.1	31.3	31.4	31.6	31.7	31.9	15
16	32.0	32.2	32.3	32.5	32.6	32.8	32.9	33.1	33.2	33.4	16
17	33.5	33.7	33.8	34.0	34.1	34.3	34.4	34.6	34.7	34.9	17
18	35.0	35.2	35.3	35.5	35.6	35.8	35.9	36.1	36.2	36.4	18
19	36.5	36.7	36.8	37.0	37.1	37.3	37.4	37.6	37.7	37.9	19
20	38.0	38.2	38.3	38.5	38.6	38.8	38.9	39.1	39.2	39.4	20
21	39.5	39.7	39.8	40.0	40.1	40.3	40.4	40.6	40.7	40.9	21
22	41.0	41.2	41.3	41.5	41.6	41.8	41.9	42.1	42.2	42.4	22
23	42.5	42.7	42.8	43.0	43.1	43.3	43.4	43.6	43.7	43.9	23
24	44.0	44.2	44.3	44.5	44.6	44.8	44.9	45.1	45.2	45.4	24
25	45.5	45.7	45.8	46.0	46.1	46.3	46.4	46.6	46.7	46.9	25
26	47.0	47.2	47.3	47.5	47.6	47.8	47.9	48.1	48.2	48.4	26
27	48.5	48.7	48.8	49.0	49.1	49.3	49.4	49.6	49.7	49.9	27
28	50.0	50.2	50.3	50.5	50.6	50.8	50.9	51.1	51.2	51.4	28
29	51.5	51.7	51.8	52.0	52.1	52.3	52.4	52.6	52.7	52.9	29
30	53.0	53.2	53.3	53.5	53.6	53.8	53.9	54.1	54.2	54.4	30
31	54.5	54.7	54.8	55.0	55.1	55.3	55.4	55.6	55.7	55.9	31
32	56.0	56.2	56.3	56.5	56.6	56.8	56.9	57.1	57.2	57.4	32
33	57.5	57.7	57.8	58.0	58.1	58.3	58.4	58.6	58.7	58.9	33
34	59.0	59.2	59.3	59.5	59.6	59.8	59.9	60.1	60.2	60.4	34
35	60.5	60.7	60.8	61.0	61.1	61.3	61.4	61.6	61.7	61.9	35
36	62.0	62.2	62.3	62.5	62.6	62.8	62.9	63.1	63.2	63.4	36
37	63.5	63.7	63.8	64.0	64.1	64.3	64.4	64.6	64.7	64.9	37
38	65.0	65.2	65.3	65.5	65.6	65.8	65.9	66.1	66.2	66.4	38
39	66.5	66.7	66.8	67.0	67.1	67.3	67.4	67.6	67.7	67.9	39
40	68.0	68.2	68.3	68.5	68.6	68.8	68.9	69.1	69.2	69.4	40

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 41.9. For same slopes but other widths of roadbed correct above figures by one-half difference in width of roadbed; thus in example above for 20 ft. roadbed distance will be 41.9 + (20 - 16) ÷ 2 or 2 ft. added to 41.9 = 43.9. For slopes of 1 on 1 see inside of front cover.

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