

Torrey Pines
E. Grade X Sect
1401

LEVEL BOOK

LEVEL BOOK

Indexed

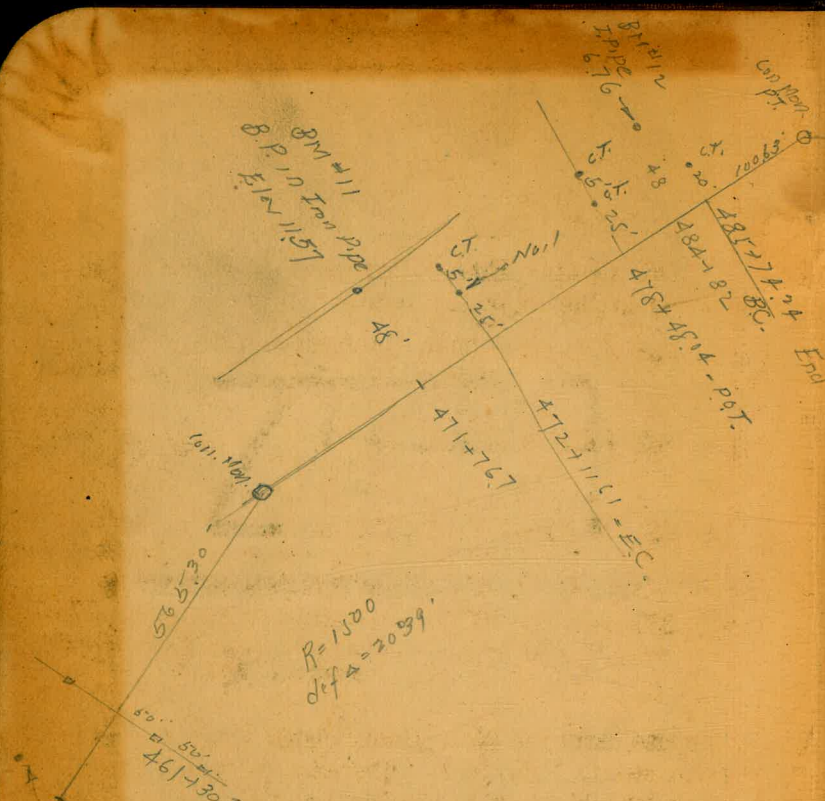
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8 P. 40.24

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Sta = 435+27 ⁶⁰	472+11.61	5-30-30	1-20
✓ 435+00	- 433+25		21-22
✓ 472+11 ⁶¹	- 486+60		23-30

✓ 421+50	- 414+75	7-29-30	32-38
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Additional outs		11-12-30	
472+00	- 465+50		39-40

Additional outs		11-5-30	
472+11 ⁶¹	- 480+60		43-44

Bot. of cut for Estimate	→ 11-28-30		
459	- 447		45-46

Culverts <u>Nov.</u> Estimate			47
466	- 481+50	Sand Fill ^{1/2} / ₃₀	48-51

Bot. of cut. for Nov. Estimate	12-1-30		
436	- 441		52-53
466	- 482	Borrow Pit. 12-9-30	54-67

Additional outs		12-15-30	
439+50	- 440+50		68

Additional outs		12-22-30	
419+50	- 424+50		69-71
421	- to 423+50	Estimate 12-26-30	72-

Culverts <u>Dec.</u> Estimate			74.
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439+50	440+50	Estimate 12-29-30	73
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407-410	Additional outs	1-5-31	76
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Marker
Blas 6-30-30
Dr. High
M. H. H.
S. H.

CROSS SECTION "D" LINE
LOCATION 117 Box 1400 - Page 26-40

435+27.60 = E.C. ✓

BM 2 44.1
76+88.84

7.45	210.32	202.87
50' Lt.	2.7	207.6
25' Lt.	5.6	204.7
ℓ	7.5	202.8
25' Rt.	8.1	202.2
50' Rt.	10.4	199.9

435+50

50' Rt.	11.8	198.5
25' Rt.	10.7	199.6
ℓ	9.8	200.5
25' Lt.	8.2	202.1
50' Lt.	5.7	204.6

435+75

50' Lt.	7.7	202.6
25' Lt.	11.0	199.3
ℓ	13.5	196.8
25' Rt.	14.5	195.8
50' Rt.	15.5	194.8

436+00

50' Rt.	19.8	190.5
25' Rt.	19.0	191.3
ℓ	16.9	193.4
25' Lt.	13.9	196.4
50' Lt.	11.2	199.1

210.32

T.P.	0.63	197.97	12.98	197.34
436+25				
50' Lt.			6.0	192.0
25' Lt.			5.3	192.7
ℓ			7.9	190.1
25' Rt.			10.9	187.1
50' Rt.			12.7	185.3
T.P.	5.04	190.33	12.78	185.13

436+50

50' Rt.			11.0	179.2
25' Rt.			8.3	181.9
ℓ			4.8	185.4
25' Lt.			6.9	183.3
50' Lt.			5.9	184.3

436+75

50' Lt.			21.1	169.2 ✓
25' Lt.			16.2	174.0 ✓
ℓ			11.1	179.1
25' Rt.			13.3	176.9
50' Rt.			16.3	173.9

437+00

50' Rt.			23.6	166.6
25' Rt.			21.5	168.7
16' Rt.			20.9	169.3
ℓ			26.5	163.7
25' Lt.			27.6	162.6

190.23

"D" - line

50' Lt. 13.0 177.2

437+25

50' Lt. 3.0 187.2

38' Lt. 8.0 182.2

25' Lt. 19.0 171.2

Σ 31.0 159.2

25' Rt. 38.1 152.1

50' Rt. 40.2 150.0

60' Rt. 38.8 151.4

437+50

65' Rt. 44.6 145.6

50' Rt. 43.8 146.4

25' Rt. 27.9 162.3

Σ 16.5 173.7

25' Lt. 3.0 181.2 ✓

41' Lt. = 8" dia. 30' High. Jersey Pine Tee 6.6 183.6 ✓

50' Lt. 6.8 183.4

437+60

50' Lt. 12.8 177.4

30' Lt. 8.4 181.8

25' Lt. 10.2 180.0

Σ 18.0 172.2

T.P. 1.06 178.23 13.00 177.23

35' Rt. 11.3 167.0

31' Rt. 15.0 163.3

50' Rt. 29.2 149.1

178.29

2

65' Rt. 32.7 145.6

437+75

50' Rt. 21.7 156.6

32' Rt. 13.7 164.6

25' Rt. 11.7 166.6

Σ 9.0 169.3

25' Lt. 3.3 175.0 ✓

40' Lt. 8.2 170.1 ✓

50' Lt. 8.0 170.3

437+77

50' Lt. 10.0 168.3

40' Lt. 9.6 168.7

25' Lt. 11.8 166.5

10' Lt. 12.1 166.3

Σ 9.3 169.0

25' Rt. 11.7 166.6

32' Rt. 13.9 164.4

50' Rt. 21.5 156.8

T.P. 2.62 168.01 12.90 165.33

437+90

50' Rt. 12.5 155.5

31' " 11.5 156.5

25' Rt. 7.0 161.0

28' Rt. 5.0 163.0

Σ 6.2 161.8

25' Lt. 8.1 159.9

168.01

D-LINE

50' Lt.		5.8	162.2
	438+00		
50' Lt.		11.2	156.8
25' Lt.		11.5	156.5
ℓ		12.9	155.1
25' Rt.		14.3	153.7
50' Rt.		15.2	152.8
T.P.	012 156.20	11.93	156.08
	438+12		
50' Rt.		5.4	150.8
44' Rt.		3.3	152.9
25' Rt.		6.6	149.6
12' Rt.		8.1	148.1
ℓ		5.4	150.8
25' Lt.		4.4	151.8
50' Lt.		3.5	152.7
	438+25		
55' Lt.		8.8	147.4
50' Lt.		8.8	147.4
25' Lt.		12.0	144.2
ℓ		14.1	142.1
25' Rt.		11.1	145.1
40' Rt.		6.3	149.9
50' Rt.		7.2	149.0
T.P.	161 144.81	13.00	143.20
75' Rt.		9.9	134.9

144.81

3

50' Rt.		9.6	135.2
33' Rt.		6.3	138.5
25' Rt.		6.8	138.0
ℓ		11.0	133.8
25' Lt.		10.4	134.4
50' Lt.		8.7	136.1
65' Lt.		7.6	137.2
	438+62		
T.P.	419 136.10	12.90	131.91
75' Lt.		+1.4	134.7 137.5
50' Lt.		2.2	133.9
25' Lt.		4.5	131.6
ℓ		4.3	131.8
25' Rt.		4.6	131.5
50' Rt.		5.9	130.2
75' Rt.		5.0	131.1
	438+67		
75' Rt.		6.3	129.8
50' Rt.		7.3	128.8
25' Rt.		5.8	130.3
ℓ		6.0	130.1
25' Lt.		4.7	131.4
37' Lt.		3.4	132.7
50' Lt.		8.4	127.7
60' Lt.		8.3	127.8
81' Lt.		15.1	121.0
90' Lt.		14.8	121.3

136.10

D" LINE

136.10

4

438+75

30' Lt.	14.8	121.3
60' Lt.	15.3	120.8
58' Lt.	9.3	126.8
42' Lt.	9.2	126.9
35' Lt.	3.7	132.4
25' Lt.	4.1	132.0
2	7.5	128.6
25' Rt.	8.3	127.8
50' Rt.	9.0	127.1
80' Rt.	9.6	126.5
85' Rt.	9.3	126.8

439+00

100' Rt.	16.5	119.6
50' Rt.	12.6	123.5
25' Rt.	11.5	124.6
2	8.0	128.1
22' Lt.	6.0	130.1
25' Lt.	22.5	113.6
31' Lt.	22.3	113.8
35' Lt.	19.8	116.3
50' Lt.	16.5	119.6
70' Lt.	2.6	133.5
75' Lt.	0.1	136.0
75' Lt.	0.3	135.8

439+10

50' Lt.	16.4	119.7
25' Lt.	22.3	113.8
2	23.7	112.4
11' Rt.	15.7	120.4
25' Rt.	13.7	122.4
50' Rt.	13.4	122.7
100' Rt.	19.0	117.1

439+20

100' Rt.	22.8	113.3
68' Rt.	23.5	112.6
60' Rt.	16.6	119.5
50' Rt.	25.5	110.6
25' Rt.	24.1	112.0
2	23.7	112.4
25' Lt.	22.2	113.9
35' Lt.	21.2	114.9
50' Lt.	11.4	124.7
70' Lt.	0.4	135.7

Ch. on BM 6446 32+61.79 = 439+54.5

10.28 125.82

125.58

0.14 = Error.

10.28 135.96

125.68 = Above BM.

439+35

70' Lt.	14.8	140.8
50' Lt.	1.8	134.2
66' Lt.	7.0	129.0
2	10.5	125.5

135.96

D" LINE

25' Rt.	15.3	122.7
42' Rt.	17.0	119.0
100' Rt.	30.5	105.5
105' Rt.	31.3	104.7

439+50

105' Rt.	31.4	104.6
100' Rt.	30.6	105.4
58' Rt.	22.2	113.8
50' Rt.	16.5	119.5
25' Rt.	13.4	122.6
ℓ	10.4	125.6
25' Lt.	5.0	131.0
50' Lt.	+5.5	141.5
60' Lt.	+7.9	143.9

T.P.	12.69	148.65	0.00	135.96
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T.P.	12.61	160.89	0.37	148.28
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439+75

50' Lt.	10.8	150.1
38' Lt.	14.1	146.8
25' Lt.	21.9	139.0
ℓ	32.8	128.1
25' Rt.	39.2	121.7
50' Rt.	41.8	119.1
100' Rt.	47.2	113.7

440+00

100' Rt.	48.5	112.4
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160.89

5

50' Rt.	43.3	117.6
38' Rt.	37.6	123.3
25' Rt.	32.1	128.8
8' Rt.	28.5	132.4

ℓ	25.8	135.1
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25' Lt.	12.0	147.9
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40' Lt.	5.0	155.9
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50' Lt.	5.0	155.9
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T.P.	3.95	164.21	0.63	160.26
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440+25

50' Lt.	6.8	157.4
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43' Lt.	2.3	161.9
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35' Lt.	3.8	160.4
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25' Lt.	9.4	155.8
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20' Lt.	12.6	151.6
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ℓ	23.0	141.2
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25' Rt.	33.7	130.5
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50' Rt.	45.6	117.6
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60' Rt.	47.9	116.8
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90' Rt.	53.4	110.8
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110' Rt.	55.3	108.9
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440+50

100' Rt.	50.8	113.4
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50' Rt.	42.3	121.9
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37' Rt.	37.0	127.2
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25' Rt.	30.5	133.7
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164.21

D^h Line

Σ		16.1	148.1
25' Lt.		10.2	154.0
42' Lt.		7.1	157.1
46' Lt.		12.9	151.3
50' Lt.		18.0	146.2
T.P.	0.17 151.83	12.55	151.66
	440+75		
50' Lt.		13.5	138.3
38' Lt.		13.2	138.6
30' Lt.		12.5	139.3
25' Lt.		7.1	144.7
18' Lt.		2.8	149.0
Σ		6.0	145.8
25' Rt.		11.8	140.0
30' Rt.		12.2	138.6
50' Rt.		25.0	126.8
70' Rt.		28.4	123.4
	440+90		
70' Rt.		25.3	126.5
56' Rt.		22.8	129.0
50' Rt.		20.9	131.5
40' Rt.		17.1	134.7
25' Rt.		13.4	138.4
Σ		8.7	143.1
19' Lt.		5.2	146.6
25' Lt.		11.0	140.8

151.83

37' Lt.		15.3	136.5
50' Lt.		15.3	136.5
	441+00		
50' Lt.		16.0	135.8
38' Lt.		16.0	135.8
32' Lt.		8.9	142.9
25' Lt.		7.0	144.8
20' Lt.		6.8	145.0
Σ		10.3	141.5
19' Rt.	Torrey Pine tree 4" diam. 10' High.	10.3	141.5
			440+99 = 8 Tree
25' Rt.		15.5	136.3
43' Rt.		20.3	131.5
50' Rt.		23.6	128.2
70' Rt.		18.9	132.9
	441+25		
75' Rt.		32.1	119.7
50' Rt.		31.0	120.8
31' Rt.		27.0	124.8
30' Rt.		28.7	127.1
25' Rt.		22.4	129.4
12' Rt.		20.7	131.1
Σ		17.4	134.4
4' Lt.		16.6	135.2
16' Lt.		15.5	136.3
25' Lt.		15.9	137.9
28' Lt.		13.3	138.5

6

	151.83	D-LINE	
3			
25' Lt		18.1	133.7
18' Lt		18.1	133.7
50' Lt		14.0	137.8
T.P.	0.39 140.05	12.17	139.66
	441+50		
50' Lt		4.5	135.7
25' Lt		8.8	131.2
L		12.6	127.4
T.P.	6.95 135.55	11.45	128.60
25' Rt		10.5	125.0
50' Rt		15.9	119.6
65' Rt		17.8	117.7
	441+75		
65' Rt		18.9	116.6
50' Rt		17.6	117.9
25' Rt		15.4	120.1
L		9.8	125.7
25' Lt		4.7	130.8
50' Lt		2.9	132.6
	442+00		
50' Lt		5.1	130.4
25' Lt		9.0	126.5
L		13.0	122.5
25' Rt		17.1	118.4
50' Rt		21.0	114.5
80' Rt		23.2	112.3

	135.55	
		442+50
80' Rt	26.3	109.2
50' Rt	22.8	112.7
25' Rt	19.0	116.5
L	15.1	120.4
25' Lt	11.6	123.9
50' Lt	7.9	127.6
	23.0	112.5
	442+65 - E of cluster of 3 torrey Pines on Rt. 54' Rt. 16" dia. 40' High.	
	Note: Burred Con. Reb. Well to Hold Fill 10' Long to Save trees	
		443+00
50' Lt	9.7	125.8
25' Lt	14.0	121.5
T.P.	9.08 132.88	11.75 123.80
L		14.8 118.1
25' Rt		18.3 114.6
50' Rt		22.0 110.9
75' Rt		25.3 107.6
		443+50
75' Rt	26.3	106.6
50' Rt	23.0	109.9
25' Rt	18.1	114.8
L	15.7	117.2
25' Lt	12.0	120.9
50' Lt	8.4	124.5
		444+00
50' Lt	2.8	129.1

132.88

"D" line

25' Lt	7.0	125.9
2	10.4	122.5
25' Rt	14.1	118.8
50' Rt	18.6	114.3
65' Rt	20.9	112.0
444+17 = 2 Torrey Pine	Rod = 16.1	116.8
44' Rt & 4" dia. 15' High		

444+20 36" B.C. Rt ✓

65' Rt	19.0	113.9
50' Rt	17.1	115.8
25' Rt	13.4	119.5

27796.8

2 on Hbk.	9.35	123.53 ✓
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25' Lt	6.1	126.8
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35' Lt	5.0	127.9
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444+54 = 2 Torrey Pine Tree	Rod 5.4	127.5
27.5' Left & 50' High 18" dia.		

Note: Radius this Curve can be lengthened and Save Above

444+55

35' Lt	5.5	127.4
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25' Lt	7.7	125.2
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2	10.6	122.3
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25' Rt	13.2	119.7
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50' Rt	16.4	116.5
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444+59

60' Rt	20.7	112.2
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25' Rt	17.2	115.7
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2	13.9	119.0
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725	8.8	124.1
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132.88

8

35' Lt	7.2	125.7
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444+63

35' Lt	7.8	125.1
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2	10.0	122.9
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25' Rt	13.5	119.4
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50' Rt	16.5	116.4
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444+66 = 2 Torrey Pine	R = 11.2	121.5
75' Rt & 18' High 4" dia.		

T.P.	6.95	128.30	11.53	121.35
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445+00

50' Rt	13.8	114.5
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25' Rt	10.5	117.8
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2	7.7	120.6
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25' Lt	3.7	124.6
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30' Lt	3.0	125.3
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445+35 = 2 Torrey Pine	53' Lt & 28" dia. 50' High	
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445+50

35' Lt	5.2	123.1
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25' Lt	7.1	121.2
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2	11.0	117.3
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25' Rt	14.7	114.6
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50' Rt	17.6	110.7
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446+00

50' Rt	18.6	109.7
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25' Rt	15.6	112.7
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2	11.8	116.5
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25' Lt	8.2	120.1
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128.30

50" line

35' Lt. 6.7 121.6

T.P. 973 127.58 10.45 117.85

446+50

40' Lt. 5.0 122.6

25' Lt. 6.9 120.7

10' Lt. 9.6 118.0

2 10.1 117.5

25' Rt. 13.8 113.8

50' Rt. 17.2 110.4

446+75

50' Rt. 17.3 110.3

25' Rt. 13.3 114.3

2 9.6 118.0

25' Lt. 6.0 121.6

45' Lt. 3.2 124.4

447+09.97 = E.C. ✓

40' Lt. 3.2 124.4

25' Lt. 5.8 121.8

2 on Htg. 9.9 117.59

25' Rt. 13.5 114.1

50' Rt. 17.7 109.9

Rod =

5.3

122.3

447+35 = 2 Torrey Pine Tree 2.3' dia. 40' High. 31' Lt. 2

Note: Make Vertical Cut at Tree With Con. Not Full or

Use Longer Radius "Above Curve" to Save Tree.

447+50

50' Rt. 17.8 109.8

127.58

25' Rt. 14.3 113.3

2 10.7 116.9

25' Lt. 6.4 121.2

40' Lt. 4.0 123.6

45' Lt. 3.5 124.1

T.P. 6.70 123.66 10.62 116.26

448+00

50' Lt. 0.2 123.5

25' Lt. 3.5 120.2

2 7.0 116.7

25' Rt. 10.2 113.5

50' Rt. 14.7 109.0

448+50

50' Rt. 15.0 108.7

25' Rt. 7.5 115.2

2 8.2 115.5

25' Lt. 4.7 119.0

50' Lt. 1.5 122.2

449+00

50' Lt. 4.7 119.0

25' Lt. 8.0 115.7

2 10.9 112.8

25' Rt. 14.2 109.5

50' Rt. 17.0 106.7

449+50

50' Rt. 21.0 102.7

123.66

"D" line

25' Rt	18.4	105.3
ℓ	15.3	108.4
25' Lt	11.6	112.1
50' Lt	7.4	116.3

449+70

50' Lt	9.9	113.8
25' Lt	13.1	110.6
TP	2.70	113.55
ℓ	12.81	110.85
ℓ	6.4	107.1
25' Rt	9.2	104.3
50' Rt	12.5	101.0

450+00

50' Rt	14.4	99.1
25' Rt	11.1	102.4
ℓ	8.5	105.0
18' Lt	6.1	107.4
25' Lt	4.6	108.9
50' Lt	1.5	112.0

450+50

50' Lt	4.1	109.4
25' Lt	8.2	105.3
ℓ	11.2	102.3
25' Rt	14.3	99.2
50' Rt	18.0	95.5

451+00

50' Rt	22.0	91.5
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113.55

10

25' Rt	19.1	94.4
ℓ	15.2	98.3
25' Lt	11.5	102.0
50' Lt	8.2	105.3

451+50

50' Lt	10.7	102.8
TP	3.03	104.20
25' Lt	12.38	101.17
ℓ	5.3	98.9
ℓ	9.2	95.0
25' Rt	18.1	92.1
50' Rt	15.3	88.9

452+00

50' Rt	18.7	85.5
25' Rt	17.6	89.6
ℓ	10.9	93.3
25' Lt	6.9	97.3
50' Lt	3.1	101.1

452+50

50' Lt	3.6	100.6
25' Lt	8.0	96.2
ℓ	12.0	92.2
25' Rt	16.4	87.8
50' Rt	20.2	84.0

453+00

50' Rt	21.0	83.2
25' Rt	17.9	86.3

104.20		"D" Line	
ℓ		13.4	90.8
25' Lt.		8.9	95.3
50' Lt.		4.3	99.9
55' Lt.		3.0	101.2
T.P.	276 103.30	3.66	100.54
	453+50		
55' Lt.		5.1	98.2
25' Lt.		10.1	93.2
ℓ		14.7	88.6
25' Rt.		18.8	84.5
50' Rt.		23.4	79.9
	454+00		
50' Rt.		24.4	78.9
25' Rt.		21.4	81.9
ℓ		16.1	87.2
25' Lt.		11.3	92.0
60' Lt.		5.0	98.3
	454+50		
60' Lt.		5.7	97.6
T.P.	3.40 93.65	13.05	90.25
25' Lt.		3.4	90.2
ℓ		8.4	85.2
chk. of Hub	454+52.14	8.47	85.18
25' Rt.		12.5	81.1
50' Rt.		17.6	76.0
	455+00		

93.65		11	
50' Rt.		21.3	72.3
25' Rt.		17.1	76.5
ℓ		12.3	81.3
25' Lt.		8.3	85.3
50' Lt.		2.4	91.2
60' Lt.		0.8	92.8
	455+50		
58' Lt.		3.0	90.6
50' Lt.		7.4	86.2
25' Lt.		12.6	81.0
ℓ		18.2	75.4
25' Rt.		22.0	71.6
50' Rt.		27.9	65.7
	455+75		
50' Rt.		29.3	64.3
25' Rt.		10.9	82.7
ℓ		20.3	73.3
25' Lt.		15.2	78.4
38' Lt.		11.7	81.9
45' Lt.		8.3	85.3
55' Lt.		1.6	92.0
60' Lt.		+1.3	95.5
	456+00		
65' Lt.		0.5	93.1
60' Lt.		1.5	92.1
50' Lt.		7.7	85.9

9365

"D" Line

38' Lt.	13.6	80.0
25' Lt.	16.6	77.0
15' Lt.	18.7	74.9
∅	21.3	72.3
25' Rt.	24.5	67.1
50' Rt.	21.8	61.8
456+25		
50' Rt.	32.6	61.0
25' Rt.	27.2	66.4
∅	22.0	71.6
25' Lt.	18.0	75.6
50' Lt.	12.4	81.2
60' Lt.	9.6	84.0
456+50		
60' Lt.	10.0	83.6
50' Lt.	12.7	80.9
T.P.	6.95	87.83
25' Lt.	11.0	76.2
7' Lt.	15.6	72.2
6' Lt.	16.8	71.0
∅	17.0	70.8
3' Rt.	16.9	70.9
7' Rt.	18.6	69.2
25' Rt.	22.0	65.8
50' Rt.	26.6	61.2

457+00

8783

12

50' Rt.	29.2	58.6
25' Rt.	24.5	63.3
∅	20.2	67.6
6' Lt.	18.6	69.2
9' Lt.	17.4	70.4
18' Lt.	17.6	70.2
20' Lt.	15.7	72.1
25' Lt.	15.2	72.6
50' Lt.	9.6	78.2
55' Lt.	8.5	79.3
T.P.	26.8	78.05
457+50		
60' Lt.	2.7	75.3
50' Lt.	5.0	73.0
39' Lt.	7.3	70.7
38' Lt.	9.0	69.0
25' Lt.	9.6	68.4
20' Lt.	11.3	66.7
∅	14.6	63.4
5' Rt.	16.5	61.5
25' Rt.	19.9	58.1
50' Rt.	23.9	54.1
457+70		
50' Rt.	25.8	52.2 ✓
25' Rt.	21.0	57.0 ✓
∅	17.3	60.7

78.05

D" Line

25' Lt.			12.4	65.6	✓
38' Lt.			9.3	68.7	✓
48' Lt.			9.2	68.8	
49' Lt.			8.2	69.8	
60' Lt.			4.8	73.2	
	458+00				
60' Lt.			8.3	69.7	✓
45' Lt.			10.6	67.4	✓
25' Lt.			16.2	61.8	
2			20.9	57.1	
25' Rt.			24.3	53.7	✓
50' Rt.			27.5	50.5	✓
T.P.	0.99	66.02	13.02	65.03	
		66.72			
	458+50				
50' Rt.			23.0	43.0	
25' Rt.			20.5	45.5	
2			16.4	49.6	
25' Lt.			12.4	53.6	
50' Lt.			9.5	56.5	
T.P.	1.25	54.95	13.02	53.00	
		55.05		53.10	
	459+00				
50' Lt.			2.4	52.6	
42' Lt.			5.9	49.1	
25' Lt.			9.1	45.9	
2			11.9	43.1	
25' Rt.			15.2	39.8	

55.05
54.95

13

50' Rt.			18.4	36.6	
	459+25				
50' Rt.			21.6	33.4	
25' Rt.			18.3	36.7	
2			15.6	39.4	
4' Lt.			15.6	39.4	
25' Lt.			11.3	43.7	
50' Lt.			7.3	47.7	
	459+50				
50' Lt.			7.9	47.1	
25' Lt.			13.0	42.0	
18' Lt.			15.6	39.4	
2			18.0	37.0	
18' Rt.			21.2	33.8	
25' Rt.			21.7	33.3	
50' Rt.			24.0	31.0	
	459+75				
50' Rt.			27.0	28.0	
42' Rt.			26.3	28.7	
25' Rt.			23.6	31.4	
2			20.3	34.7	
25' Lt.			15.7	39.3	
50' Lt.			9.2	45.8	
	460+00				
50' Lt.			10.5	44.5	
T.P.	1.07	43.84	12.18	42.87	
		43.94		42.77	

43.94
43.84

"D" Line

40' Lt.	2.9	40.9
25' Lt.	5.8	38.0
ℓ	10.8	33.0
25' Rt.	14.2	29.6
50' Rt.	18.0	25.8

460+50

50' Rt.	21.2	22.6
25' Rt.	16.8	27.0
5' Rt.	13.8	30.0
ℓ	12.3	31.5
2' Lt.	11.5	32.3
13' Lt.	10.5	33.3
25' Lt.	8.4	35.4
41' Lt.	4.6	39.2
47' Lt.	2.2	41.6
50' Lt.	1.6	42.2

461+00

50' Lt.	3.7	40.1
45' Lt.	4.9	38.9
25' Lt.	9.0	34.8
ℓ	13.6	30.2
25' Rt.	18.4	25.4
50' Rt.	22.2	21.6

461+30.38 = B.C. Rt. ✓

50' Rt.	22.9	20.9
25' Rt.	19.0	24.8

43.94
43.84

14

ℓ	14.8	29.0
25' Lt.	9.9	33.9
38	8.1	35.7
50' Lt. on RR Hub	7.48	36.36
65' Lt.	7.1	36.7
70' Lt.	14.2	29.6

461+40

70' Lt.	18.2	25.6
60' Lt.	8.1	35.7
50' Lt.	8.4	35.4
25' Lt.	11.0	32.8
ℓ	14.7	29.1
13' Rt.	17.0	26.8
25' Rt.	18.6	25.2
50' Rt.	23.0	20.8

461+45

50' Rt.	23.0	20.8
25' Rt.	18.6	25.2
ℓ	15.0	28.8
25' Lt.	11.2	32.6
35' Lt.	10.1	33.7

T.P.	0.58	31.81
38' Lt.	6.8	31.91
50' Lt.	15.2	21.33
70' Lt.	15.0	21.23
		25.0
		16.6
		16.8

461+75

31.91
31.81

"D" 2.178

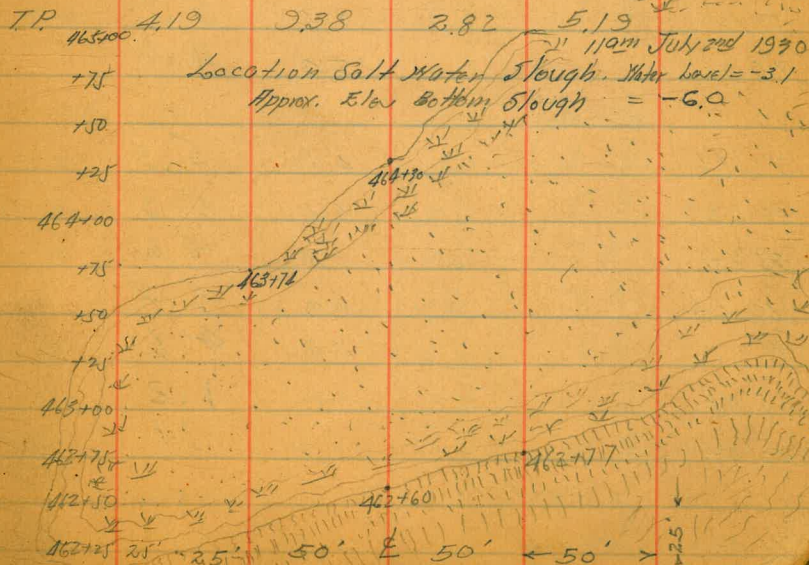
70' Lt.	19.7	12.1
50' Lt.	18.7	13.6
33' Lt.	8.1	23.7
25' Lt.	8.0	23.8
ℓ	6.2	25.6
25' Rt.	8.5	23.3
50' Rt.	11.6	20.2
462+00		
50' Rt.	12.6	19.2
25' Rt.	11.9	19.9
ℓ	13.8	18.0
chk. B.M. BP #	131	30.5
Terry Pines End curb foot of Grade ✓		
30.60		
30.50 - B.M.		
0.10 = Error		
Correction on B.M.		
131	31.81	30.50 = Above B.M.
T.P.	0.89	19.84
25' Lt.	5.0	14.8
50' Lt.	8.1	11.7
65' Lt.	8.3	11.5
462+25		
80' Lt.	20.6	-0.8
50' Lt.	19.5	0.3
25' Lt.	15.8	4.0
ℓ	10.3	9.5
25' Rt.	5.0	14.8
50' Rt.	3.4	16.4

462+50

19.84

15

50' Rt.	10.5	9.3
25' Rt.	14.7	5.1
T.P.	0.66	8.01
ℓ	8.5	-0.5
15' Lt. - Water level Slough.	11.1	-3.1
25' Lt. - Water " "	11.1	-3.1
25' Lt. - Approx. level Bottom Slough	14.0	-6.0
50' Lt. " " " "	14.0	-6.0
75' Lt. " " " "	14.0	-6.0
75' Lt.	14.0	-6.0
ℓ Water level - toe wall Ground	11.1	-3.1
10' Rt.	10.8	-2.8
25' Rt.	7.6	0.4
50' Rt.	3.5	4.5



9.38

D⁴ line

464+00		
25' Lt = Edge Slough	12.5	-3.1
50' Lt	7.4	2.0
75' Lt	3.1	6.3

464+30

75' Lt	4.7	4.7
50' Lt	2.9	6.5
25' Lt	7.5	1.9
L = edge Slough	12.5	-3.1

464+50

4' Rt = edge Slough	12.5	-3.1
L	11.6	-2.2
25' Lt	6.7	2.7
40' Lt	3.9	5.5
50' Lt	3.7	5.7
75' Lt	5.4	4.0

465+00

75' Lt	4.1	5.3
50' Lt	4.1	5.3
25' Lt	3.8	5.6
10' Lt	3.9	5.5
L	4.8	4.6
25' Rt	8.2	1.2
50' Rt = Edge Slough	12.5	-3.1

465+50

71' Rt = edge Slough	12.5	-3.1
----------------------	------	------

9.38

50' Rt	7.6	1.8
25' Rt	4.5	4.9
L	5.6	3.8
25' Lt	4.5	4.9
50' Lt	4.6	4.8
65' Lt	6.4	3.0

→ ✓ 466+00

75' Lt	6.7	2.7
50' Lt	7.1	2.3
25' Lt	4.8	4.6
12' Lt	3.2	6.2
L	4.0	5.4
25' Rt	5.3	4.1
50' Rt	5.9	3.5
75' Rt	8.2	1.2

466+25

75' Rt	7.2	2.2
50' Rt	5.8	3.6
25' Rt	4.1	5.3
18' Rt	1.6	7.8
L	1.8	7.6
25' Lt	6.8	2.6
50' Lt	7.7	1.7
75' Lt	7.7	1.7

466+50

75' Lt	7.6	1.8
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16

938

"D"-Line

50' Lt.		8.0	1.4
25' Lt.		7.9	1.5
Σ		5.3	4.1
25' Rt.		3.3	6.1
50' Rt.		5.7	3.7
75' Rt.		7.1	2.3
T.P.	5.65	10.67	4.36
	466+80		5.02
75' Rt.		9.2	1.5
65' Rt.		7.2	3.5
50' Rt.		6.6	4.1
25' Rt.		6.4	4.3
Σ		6.8	3.9
25' Lt.		8.3	2.4
50' Lt.		8.7	2.0
65' Lt.		9.2	1.5
75' Lt.		8.3	2.4
	467+00		
75' Lt.		7.0	3.7
50' Lt.		7.5	3.2
25' Lt.		8.0	2.7
Σ		9.0	1.7
20' Rt.		6.9	4.4
25' Rt.		6.9	3.8
50' Rt.		6.0	4.7
75' Rt.		8.6	2.1

10.67

17

			467+25		
75' Rt.		7.9		2.8	
50' Rt.		5.9		4.8	
25' Rt.		7.8		2.9	
Σ		9.8		0.9	
25' Lt.		9.1		1.6	
50' Lt.		9.3		1.4	
75' Lt.		5.2		5.5	
			467+50		
75' Lt.		4.6		6.7	
50' Lt.		9.0		1.7	
25' Lt.		10.5		0.2	
Σ		9.8		0.9	
25' Rt.		8.0		2.7	
50' Rt.		5.9		4.8	
75' Rt.		7.0		3.7	
			467+75		
75' Rt.		3.2		7.5	
50' Rt.		4.7		6.0	
25' Rt.		7.7		3.0	
Σ		8.7		2.0	
25' Lt.		9.1		1.6	
50' Lt.		8.0		2.7	
70' Lt.		5.6		5.1	
75' Lt.		3.0		7.7	
			468+00		

10.67

D Line

70' Lt.	15	9.2
65' Lt.	42	6.5
50' Lt.	58	4.9
25' Lt.	7.6	3.1
L	10.4	0.3
25' Rt.	9.5	1.2
50' Rt.	8.0	2.7
75' Rt.	3.4	7.3
468+50		
75' Rt.	6.6	4.1
50' Rt.	9.1	1.6
25' Rt.	9.3	1.4
L	9.2	1.5
25' Lt.	7.0	3.7
50' Lt.	4.6	6.1
468+75		
45' Lt.	3.0	7.7
25' Lt.	6.5	4.2
L	9.1	1.6
25' Rt.	10.5	0.2
50' Rt.	9.8	0.9
75' Rt.	8.8	1.9
469+00		
75' Rt.	9.1	1.6
50' Rt.	10.1	0.6
25' Rt.	10.7	0.0

10.67

18

L	11.5	-0.8
25' Lt.	8.3	2.4
40' Lt.	4.5	6.2
51' Lt.	10.9	11.6
56' Lt. ^{edge} of Pav.	+0.9	11.57
469+25		
50' Lt. ^{edge} of Parking	+0.9	11.57
45' "	+0.8	11.47
30' "	6.4	4.3
25' Lt.	7.1	3.6
L	9.9	0.8
25' Rt.	10.3	0.4
50' Rt.	9.5	1.2
75' Rt.	9.1	1.6
469+50		
75' Rt.	8.4	2.3
50' Rt.	9.1	1.6
25' Rt.	9.3	1.4
L	7.2	3.5
25' Lt.	3.3	7.4
38' Lt.	+1.3	12.0
45' Lt. = edge Parking	+0.6	11.27
469+75		
42' Lt. = edge Parking	+0.6	11.27
36' Lt.	+1.2	11.9
25' Lt.	4.2	6.5

10.67

D'line

15' Lt.	7.4	3.3
2	9.3	1.4
25' Rt.	10.7	0.0
50' Rt.	9.6	1.1
75' Rt.	9.4	1.3

470+00

75' Rt.	9.7	1.0
50' Rt.	10.2	0.5
25' Rt.	11.5	-0.8
2	11.0	-0.3
10' Lt.	9.1	1.6
25' Lt.	2.6	7.1
31' Lt.	7.4	12.1
36' Lt. on Par. 179	+0.6	11.27

470+25

34' Lt. edge Par. 179	+0.5	11.17
28' "	+1.0	11.7
25' "	1.3	9.4
5' "	9.5	1.2
2	10.6	0.1
25' Rt.	12.3	-1.6
50' Rt.	11.0	-0.3
75' Rt.	10.2	0.5

470+50

75' Rt.	10.0	0.7
50' Rt.	11.5	-0.8

10.67

19

25' Rt.	11.2	-0.5
2	9.2	1.5
10' Lt.	7.6	3.1
T.P. 5.39 1382	2.24	8.43
25' Lt.	2.2	11.6
28' " on edge Par. 179	2.5	11.32

470+75

27' Lt. on edge Par. 179	2.5	11.32
23' "	2.7	11.1
10' "	9.4	4.4
2	10.7	3.1
25' Rt.	12.6	1.2
50' Rt.	12.5	1.3
75' Rt.	13.7	0.1

471+00

75' Rt.	13.7	0.1
50' Rt.	15.7	-1.9
25' Rt.	13.8	0.0
2	9.7	4.1
15' Lt.	5.7	8.1
20' Lt.	2.1	11.7
25' Lt. edge Par.	2.5	11.32
40' " on "	2.5	11.32

471+25

40' Lt. on Par.	2.5	11.32
24' - edge "	2.5	11.32

13.82

"D" Line

20' Lt.	2.2	11.6
6'	10.4	3.4
ℓ	11.8	2.0
25' Rt.	15.3	-2.1
50' Rt.	15.8	-2.0
75' Rt.	14.0	-0.2

471+50

75' Rt.	13.8	0.0
50' Rt.	13.7	0.1
25' Rt.	14.2	-0.4
ℓ	10.8	3.0
16' Lt.	1.8	12.0
22' Lt. on Paving	2.5	11.32
44' " " "	2.5	11.32

471+75

44' " " Paving	2.6	11.22
22' " " "	2.6	11.22
18' "	2.1	11.7
8' "	8.8	5.0
ℓ	10.4	3.4
25' Rt.	11.3	2.5
50' Rt.	14.2	-0.4
75' Rt.	15.4	-1.6

472+00

75' Rt.	15.8	-2.0
50' Rt.	13.7	0.1

13.82

20

25' Rt.	11.5	2.3
ℓ	8.1	5.7
15' Lt.	1.8	12.0
21' Lt. on Pav.	2.5	11.32
43' " " "	2.5	11.32

472+11.61 = E.C. ✓

43' Lt. on Paving	2.3	11.52
21' " " "	2.3	11.52
14' "	1.8	12.0
5' "	7.8	6.0
ℓ on Hub.	3.84	3.98
25' Rt.	13.0	.8
50' Rt.	16.0	-2.2
75' Rt.	16.0	-2.2

T.P.	3.98	16.46	134	12.48
T.P.	5.23	17.19	450	11.96
T.P.	13.91	30.96	0.14	17.05

Chk. B.P. B.M. in curb	Grade	0.46	30.50
			30.50 - B.M.
			0.00 - Error

Walker
Bliss
Drebit
M. Hooy
7-2-30

"D" Line

LEVELS From Station 435+00
to Station 433+25 Inclusive

Note: Lt. = Sth direction from S
Rt. = Nth

Corrected
Elev. of Hill
435+27.6

10.48 213.21 302.73
435+00

55' Lt. 4.0 209.2

50' " 4.8 208.4

25' " 7.5 205.7

2' 10.3 202.9

25' Rt. 12.0 201.2

50' Rt. 13.4 199.8

434+75

50' Rt. 16.3 196.9

25' Rt. 14.6 198.6

2' 11.9 201.3

25' Lt. 8.8 204.4

50' " 5.4 207.8

55' " 4.5 208.7

434+50

60 Lt. 3.1 210.1

50' Lt. 5.6 207.6

25' " 10.4 202.8

2' 15.3 197.9

25' Rt. 18.8 194.4

50' Rt. 21.4 192.1

434+30

50' Rt. 25.3 187.9

25' Rt. 21.3 191.9 ✓

2' 16.4 196.8

213.21

"D" Line

21

25' Lt. 11.2 202.0 ✓

50' Lt. 7.5 205.7 ✓

T.P. 0.51 202.0 8 11.64 201.57

434+00

50' Lt. 4.5 197.6

25' Lt. c.c. 195.5

2' 9.5 192.6

25' Rt. 16.6 185.5

50' Rt. 19.5 182.6

433+75

70' Rt. 34.3 167.8

50' Rt. 28.5 173.6

25' Rt. 23.2 178.9

2' 19.3 182.8

25' Lt. 14.0 188.1

50' Lt. 11.0 191.1

T.P. 0.30 189.61 12.77 189.31

433+50

50' Lt. 6.0 183.6

25' " 10.5 179.1

2' 16.0 173.6

13' Rt. 19.2 170.4

25' Rt. 25.5 164.1

50' Rt. 25.0 164.6

68' Rt. 25.3 164.3

76' Rt. 28.3 161.3

18961 "D" Line

22

433+25

110' Rt	45.7	143.9
95' Rt	43.0	146.6
80' Rt	35.2	154.4
63' Rt	33.0	156.6
50' Rt	34.0	155.6
25' Rt	33.5	156.1
6	24.1	165.5
25' Lt	17.8	171.8
31' Lt	18.3	171.3
50' Lt	9.1	180.5
55' Lt	6.1	183.5
chk. H. Level ^{Station Party} _{See} Book 1399-39	11.60	178.01
T.P. on top 56' Lt & 432+60	12.49	177.12

For Cross Sections From station 396+00
to station 433+25 See Book 1399-12-39

X See Torrey Pines Grade

"D. Line"
(Con) from Page 20

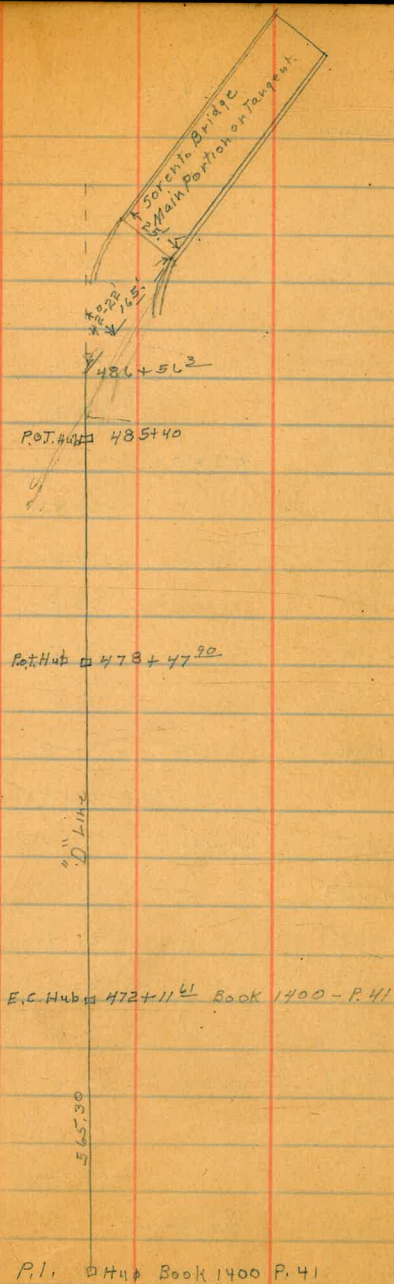
7-14-30

Mullin
McHugh
J. E. B. H.
Kenny

B.P. 66. Foot Torrey
Pines Grade

B.M.	0.61	31.11	30.50
T.P.	0.42	19.08	12.45
T.P.	3.54	16.38	6.24
T.P.	4.51	16.45	4.44
T.P.	7.33	13.62	10.16
472+11 ⁶¹ E.C.			
± on Hub		7.60	4.02 = 3.98 Page 20
472+50			
42 Lt. W Pavmt.		2.08	11.54
21 Lt. E "		2.41	11.21
16 Lt.		1.8	11.8
5 Lt.		9.0	4.6
±		10.1	3.5
25 Rt.		12.5	1.1
50 "		15.6	-2.0
75 "		17.6	-1.0
472+90			
75' Rt.		15.0	-1.4
50' Rt.		13.1	+0.5
25' Rt.		11.4	2.2
±		7.8	5.8
17. Lt		7.8	11.8
21. Lt E. Pavmt.		2.16	11.46
42 Lt W "		2.09	11.53

23



13.62
473+65

42' RT W. Pavmt.	2.07	11.55
21' Lt. E "	2.24	11.36
15' Lt.	1.3	12.3
⊕	10.0	3.6
25' Rt.	12.0	1.6
50' Rt	13.4	0.2
75' Rt	14.4	-0.8

473+50

75' RT.	14.0	-0.4
50' RT.	14.0	-0.4
25' RT.	13.8	-0.2
⊕	10.7	+2.9
15' Lt	1.6	12.0
20' Lt E. pavmt	2.20	11.42
42' Lt W "	2.13	11.49

474+00

42' Lt W. pavmt	2.00	11.62
20' " E "	2.18	11.44
13' "	2.0	11.6
⊕	7.6	6.0
25' Rt.,	12.0	1.6
50' "	14.0	-0.4
75' "	15.2	-1.6

474+15

75' RT.	14.6	-1.0
50' "	14.9	-1.2

Torrey Pines "D" line

13.62

24

25' RT	11.2	2.4
5' "	11.1	2.5
⊕	9.4	4.2
12' Lt.	2.0	11.6
20' " E. pavmt.	2.28	11.34
42' " W "	2.05	11.57

474+65

42' Lt W. pavmt	2.02	11.60
21' " E. "	2.34	11.28
12' "	1.8	11.8
⊕	9.7	3.9
25' RT.	11.5	2.1
50' RT	12.5	1.1
75' "	12.7	0.9

474+85

75' RT	13.1	0.5
50' "	12.8	0.8
25' "	10.8	2.8
⊕	6.0	7.6
13' Lt	2.1	11.5
20' "	2.21	11.41
42' "	2.05	11.57

474+75

42' Lt W. pavmt.	2.00	11.62
20' " E "	2.06	11.56
12' "	1.9	11.7

13.62
474+75 (con)

£		7.9	5.7
15' Rt		11.1	2.5
25' "		11.8	1.8
50' "		12.8	0.8
75' "		14.1	-0.5
✓	475+40		
7.5' Rt		14.8	-1.2
50' "		13.8	-0.2
25' "		12.2	+1.4
12' "		11.5	+2.1
£		9.3	+4.3
13' Lt		1.6	12.0
20' " E. paymt		2.31	11.31
42' " W "		1.95	11.67
✓	476+00		
42' Rt w. paymt		2.07	11.55
20' " E "		2.36	11.26
12' "		1.6	12.0
£		9.9	3.7
25' Rt		12.5	1.1
50' "		14.0	-0.4
75' "		14.2	-0.6
✓	476+40		
75' Rt		14.2	-0.6
50' "		12.8	+0.8
25' "		9.9	+3.7

Torrey Pines "D" line

25

13.62

15' Rt		9.3	4.3
£		5.9	7.7
13' Lt		1.6	12.0
20' " E. paymt		2.43	11.19
42' " W "		2.30	11.32
T.P.	1.96	13.44	2.24
✓	476+60		
42' Lt w. paymt		2.20	11.24
21' " E "		2.29	11.13
12' "		1.5	11.9
£		9.0	4.4
25' Rt		10.7	2.7
50' "		12.4	1.0
75' "		14.4	-1.0
✓	477+00		
75' Rt		14.8	-1.4
50' "		14.6	-1.2
25' "		13.3	0.1
£		8.5	4.9
12' Lt		1.9	11.5
21' " E. paymt		2.50	10.94
42' " W "		2.43	11.01
✓	477+30		
42' Lt w. paymt		2.61	10.83
21' " E "		2.65	10.79
12' "		2.0	11.4

+30 40

13.44
477+30 (con)

±	6.5	6.9
15' Rt	10.5	2.9
25' "	11.9	1.5
50' "	13.3	0.1
75' "	14.0	-0.6

477+60

75' Rt	14.8	-1.4
50' "	14.7	-1.3
25' "	12.6	+0.8
±	9.7	3.7
12' Lt	1.7	11.7
21' " E. parmt.	2.80	10.64
42' " W. "	2.70	10.74 ✓

478+30

42' Lt W. parmt	3.08	10.36 ✓
21' " E. "	3.26	10.18 ✓
11' "	2.6	10.8 ✓
±	9.0	4.4 ✓
25' Rt	10.7	2.7 ✓
50' "	12.1	1.3 ✓
75' "	13.2	0.2 ✓

478+50

75' Rt	14.2	-0.8 ✓
50' "	13.5	-0.1 ✓
25' "	10.6	2.8 ✓
10' "	8.6	4.8 ✓ ✓

13.44

±	6.0	7.4
13' Lt	2.6	10.8 ✓
21' " E. parmt.	3.31	10.13 ✓
42' " W. "	3.15	10.29 ✓

478+70

42' Lt W. parmt.	3.30	10.14 ✓
21' " E. "	3.36	10.08 ✓
12' "	2.8	10.6 ✓
±	8.7	4.7 ✓
15' Rt	9.8	3.6 ✓
25' "	11.8	1.6 ✓
50' "	14.4	-1.0 ✓
75' "	13.5	-0.1 ✓

479+25

75' Rt	14.6	-1.2 ✓
50' "	13.7	-0.3 ✓
25' "	11.8	+1.6 ✓
±	10.0	3.4 ✓
13' Lt	3.2	10.2 ✓
21' " E. parmt.	3.80	9.64 ✓
42' " W. "	3.56	9.88 ✓

479+35

42' Lt W. parmt.	3.62	9.82 ✓
21' " E. "	3.77	9.67 ✓
12' "	3.4	10.0 ✓
±	7.4	5.6 ✓ ✓

13.44

479+35 (con)

15' RT	11.6	1.8
25' RT	11.9	1.5
50' "	13.5	-0.1 ✓
75' "	15.2	-1.8 ✓

479+40

75' RT	15.3	-1.9 ✓
50' "	14.5	-1.1 ✓
25' "	12.5	+0.9
♀	10.4	3.0
13' Lt.	3.2	10.2
21' " E. parvt.	4.21	9.23
42' " W. "	4.06	9.38

480+00

42' Lt. W. parvt.	4.66	8.84
21' " E. "	4.77	8.67
13' "	4.1	9.3
♀	11.2	2.2
25' RT.	13.8	-0.4
50' "	14.8	-1.4
75' "	15.7	-2.3

480+40

75' RT.	16.4	-3.0
50' "	16.4	-3.0
25' "	14.3	-0.9
10' "	12.2	1.2
♀	8.8	4.6 ✓

13.44

Torrey Pines D-Line

27

12' Lt.	4.6	8.8
21' " E. parvt.	5.33	8.11
42' " W. "	5.10	8.34

480+60

42' Lt. W. parvt.	5.34	8.10
21' " E. "	5.67	7.77
12' "	4.9	8.5
♀	12.2	1.2 ✓
15' RT	15.0	-1.6 ✓
25' "	15.8	-2.4 ✓
50' "	16.0	-2.6 ✓
75' "	16.0	-2.6 ✓
80' "	15.7	-2.3 ✓
100' " Topbank W. edge Slough.	14.5	-3.1 ✓

481+00

75' RT TopBank W. edge Slough	16.7	-3.3
50' "	15.8	-2.4 ✓
45' "	17.0	-3.6 ✓
25' "	16.8	-3.4 ✓
10' "	15.6	-2.2 ✓
♀	13.8	-0.4 ✓
14' Lt	5.3	8.1
21' " E. parvt.	6.24	7.20
42' " W. "	4.02	7.42
T.P.	1.93	10.16 ✓
	5.21	8.23 ✓

10.16

481+35

✓ 42' Lt	W. parvmt.	2.15	7.01	✓
21' "	E. "	3.62	6.54	✓
13' "	"	2.8	7.4	✓
♀	"	10.8	-0.6	✓
15' RT	"	13.0	-2.8	✓
25' "	"	13.2	-3.0	✓
40' "	"	12.2	-2.0	✓
50' "	"	12.4	-2.2	✓
63' "	Topbank wedge slough	13.2	-3.0	✓
65' "	" " "	15.0	-4.8	✓
75' "	" " "	16.8	-6.6	✓

481+60

✓ 75' RT	in slough	17.8	-7.6	✓
55' "	" "	15.0	-4.8	✓
50' "	Topbank	13.2	-3.0	✓
25' "	"	13.2	-3.0	✓
18' "	"	11.7	-1.5	✓
♀	"	8.0	+2.2	✓
13' LT	"	3.2	+7.0	✓
21' "	E. parvmt.	3.91	6.25	✓
42' "	W. "	3.62	6.54	✓

481+75

42' Lt	W. parvmt.	3.83	6.33	✓
21' "	E. "	4.33	5.83	✓
13' "	"	3.2	7.0	✓
♀	"	10.7	-0.5	✓

10.16

481+75 (cont)

✓ 15' RT	"	13.2	-3.0	✓
25' "	"	13.1	-2.9	✓
40' "	Top bank	12.8	-2.6	✓
43' "	in slough	15.0	-4.8	✓
55' "	" "	17.4	-7.4	✓

482+00

✓ 50' RT	in slough	18.0	-7.8	✓
33' "	" "	15.0	-4.8	✓
30' "	Top bank	13.2	-3.0	✓
25' "	"	13.2	-3.0	✓
5' "	"	12.8	-2.6	✓
♀	"	12.0	-1.8	✓
13' Lt.	"	3.8	-3.6	✓
21' "	E. parvmt.	4.69	5.47	✓
42' "	W. "	4.27	5.89	✓

482+50

42' Lt.	W. parvmt.	4.86	5.30	✓
21' Lt.	E. "	5.16	5.00	✓
14' "	"	4.1	6.1	✓
♀	"	11.7	-1.5	✓
5' RT	"	12.9	-2.7	✓
15' "	Topbank	13.0	-2.8	✓
20' "	in slough	15.0	-4.8	✓
40' "	" "	17.2	-7.0	✓

Torrey Pines D line

28

10.76
483+00

40' RT	in slough	17.0	-6.8 ✓
25' "	" "	14.8	-4.6 ✓
20' "	Topbank	13.2	-3.0 ✓
♀		12.4	-2.2 ✓
14' LT		4.6	+5.6 ✓
21' "	E. parmt.	5.74	4.42 ✓
42' "	W. "	5.40	4.76 ✓

483+50

42' LT	W. parmt.	5.83	4.33 ✓
21' "	E. "	6.08	4.08 ✓
14' "		4.6	5.6 ✓
♀		12.2	-2.0 ✓
25' RT	Topbank	13.0	-2.8 ✓
35' "	in slough	14.2	-4.0 ✓
45' "	" "	15.0	-4.8 ✓

484+00

45' RT	in slough	14.5	-4.3 ✓
25' RT	" "	14.0	-3.8 ✓
20' "	Topbank	13.3	-3.1 ✓
5' "		13.0	-2.8 ✓
♀		12.0	-1.8 ✓
13' LT		4.8	+5.4 ✓
21' "	E. parmt.	6.38	3.78 ✓
42' "	W. "	6.02	4.14 ✓

✓

10.76
484+50

42' LT	W. parmt.	6.18	3.98 ✓
21' "	E. "	6.42	3.74 ✓
14' "		4.9	5.3 ✓
♀		11.4	-1.2 ✓
10' RT	Topbank	13.2	-3.0 ✓
15' "	in slough	14.0	-3.8 ✓
50' "	" "	14.5	-4.3 ✓

485+00

50' "	in slough	14.5	-4.3 ✓
25' "	" "	14.0	-3.8 ✓
20' "	Topbank	13.2	-3.0 ✓
♀		9.7	+0.5 ✓
13' LT		4.1	4.1 ✓
19' LT	E. parmt.	6.52	3.64 ✓
39' "	W. "	6.27	3.89 ✓

485+40

37' LT	W. parmt.	6.43	3.73 ✓
13' "	E. "	6.71	3.45 ✓
♀ on Hub	P.O.T.	6.31	3.85 ✓
5' RT.		7.1	3.1 ✓
15' "		12.5	-2.3 ✓
20' "	Topbank	13.1	-2.9 ✓
25' "	in slough	14.2	-4.0 ✓
50' "	" "		

✓

Torrey Pines "D Line"

29

10.11

485+84

50' Rt in slough W. bank	13.2	-3.0	✓
25' "	12.5	-2.3	✓
15' "	10.3	-0.1	✓
5' "	5.5	+4.7	✓
¢ on E. edge parvmt.	7.04	3.12	✓
28' Lt. W. parvmt.	6.67	3.49	✓

486+60

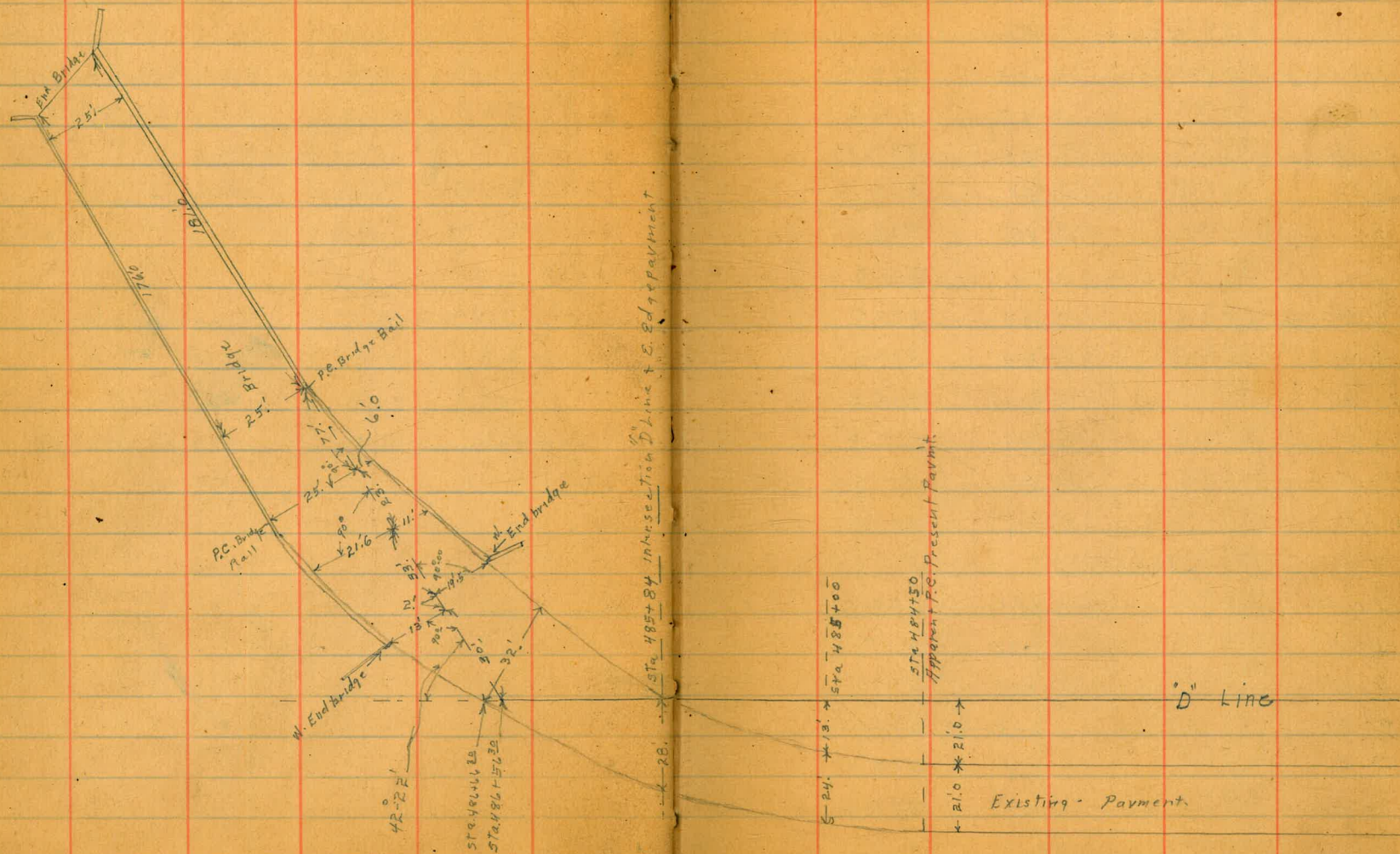
¢ on W. edge parvmt.	6.98	3.18	✓
26' R+E " "	7.01	3.15	✓
36' "	7.6	2.6	✓
46' " edge slough	13.2	-3.0	✓
50' " in "	17.0	-6.8	✓
T.P.	12.38	15.90	6.64
ehkon E.C. Hub. Page 23.	17.90	4.00 =	482

Turkey Pines D Line

30

Bridge Location Sorento Slough

7-16-30
 J.C. Blitts
 Kanagy



"D-1" Line

East Torrey Pines Grade

BM	0.41	341.07	340.65	0.42
TP	2.74	333.30	330.56	2.74
		421+50		
		Ahead Sec 1399 Page 30 25875		
100 ft. West of 1/2		15.5	317.8	
85 ft		57	327.6	
70 ft		89	329.4	
50 ft		39	329.4	
25 ft		48	328.5	
1/2		73	326.0	
65 ft - East of 1/2		10.6	322.7	
50 ft		16.7	316.6	
35 ft		25.0	308.3	
110 ft		33.3	300.0	
115 ft		49.2	284.1	
215 ft		69.2	264.1	
		421+25		
185 ft		68.0	265.3	
145 ft		55.4	277.9	
110 ft		35.2	298.1	
90 ft		20.5	302.8	
50 ft		21.2	312.1	
25 ft		15.7	317.6	
1/2		10.1	323.2	
25 ft		6.6	326.7	
50 ft		4.7	328.6	

333.3°

July 29-34
Sisson
Northway
Mallory
32

79 ft	4.7	328.6	
100 ft	17.0	316.3	
		421+0	361.75
90 ft	8.5	324.8	
75 ft	3.8	329.5	
50 ft	11.6	321.7	
50 ft	19.5	313.8	
37 ft	14.2	309.0	
25 ft	25.8	307.5	
16 ft	31.0	307.3	
13 ft	32.2	320.1	400.12
1/2	17.0	316.3	329.38
45 ft	23.5	309.8	297.25
35 ft	21.5	306.8	
50 ft	24.2	309.1	
70 ft	20.0	313.3	
80 ft	21.3	312.0	
120 ft	41.8	291.5	
150 ft	55.5	277.8	
185 ft	67.4	265.9	
		420+75	
170 ft	64.8	268.5	
148 ft	58.0	275.3	
132 ft	51.7	281.6	
112 ft	40.5	292.8	
104 ft	34.8	298.5	

33330

98 PL	39.8	293.5
95 PL	32.8	300.5
50 PL	39.7	303.6
32 PL	38.2	295.1
25 PL	36.0	297.3
2	26.5	306.8
16 PL	28.8	310.5
20 PL	34.5	298.8
25 PL	35.3	298.0
37 PL	37.5	295.8
50 PL	33.2	300.1
66 PL	24.4	308.9
80 PL	4.4	328.9
100 PL	13.4	319.9

420150

90 PL	11.2	322.1
99 PL	5.3	328.0
50 PL	21.8	311.5
25 PL	47.3	286.0
8 PL	36.0	297.3
2	37.1	296.2
9 PL	39.0	294.3
25 PL	47.9	285.4
42 PL	41.0	292.3
50 PL	48.3	291.0
72 PL	44.4	288.9

33330

33

84 PL	50.4	282.9
108 PL	52.3	281.0
140 PL	51.6	281.7
155 PL	61.2	272.1
170 PL	76.0	261.3

420125

173 PL	64.1	269.2
158 PL	55.9	277.4
135 PL	57.6	275.7
118 PL	56.1	277.2
105 PL	68.8	269.5
80 PL	60.7	272.6
76 PL	51.0	282.3
55 PL	55.1	278.2
50 PL	59.1	273.5
45 PL	53.1	280.2
34 PL	46.0	287.3
25 PL	52.1	281.2
17 PL	59.0	274.3
2	51.7	281.6
7 PL	57.0	276.3
25 PL	37.4	293.9
50 PL	21.2	309.0
80 PL	5.1	328.2
95 PL	13.7	319.6

42010

0370

33330

26775

100 Lt	420100	10.3	323.0
80 Lt		8.5	329.8
50 Lt		23.4	309.9
25 Lt		36.8	296.5
15 Lt		53.3	280.0
10 Lt		68.7	264.6
7.5 Lt		70.7	262.6
5.0 Lt		63.2	270.1
2.5 Lt		67.5	265.8

419+750 EC

100 Lt		75.6	257.7
90 Lt		85.6	247.7
75 Lt		76.0	257.3
65 Lt		81.6	251.7
50 Lt		77.5	255.8
45 Lt		76.5	256.8
25 Lt		68.5	269.8
15 Lt		47.5	285.8
10 Lt		33.9	299.4
50 Lt		21.5	311.8
90 Lt		22	331.1
105 Lt		6.6	326.7

419+150

27075

110 Lt		11	332.2
95 Lt		0.0	333.3
80 Lt		0.0	333.3

33330

34

65 Lt		77	325.6
50 Lt		148	318.5
15 Lt		272	306.1
1 Lt		401	293.2
25 Lt		58	280.5
50 Lt		68.3	265.0
68 Lt		71.5	258.8
86 Lt - Bottom Drain		91.6	241.7
100 Lt		86.6	246.7

419+25

75 Lt		80.0	253.3
50 Lt		71.5	261.8
25 Lt		59.5	273.8
1 Lt		422	291.1
12 Lt		378	295.5
25 Lt		321	301.2
50 Lt		215	311.8
91 Lt		125	335.8
105 Lt		140	337.3
TP	10.63	343.54	0.39
BM		287	340.67
BM	12.43	303.08	340.65

Start

419+0

115 Lt		157	337.4
95 Lt		156	337.5
76 Lt		263	326.8

0.00 P. 17 20.48
418170

27375

353.08

50 Lt	42.0	311.1
25 Lt	55.2	297.9
2	66.2	286.9
25 Pt	75.5	277.6
50 Pt	80.0	273.1

418+75

90 Pt	78.8	274.3
70 Pt	70.0	283.1
50 Pt	63.0	290.1
25 Pt	62.3	290.8
2	61.7	291.4
25 Lt	49.5	303.6
50 Lt	37.8	315.3
67 Lt	28.7	329.4
84 Lt	17.6	335.5
15 Lt	14.6	338.5
100 Lt	13.4	339.7

418+50

100 Lt	12.3	340.8
86 Lt	11.6	341.5
82 Lt	15.6	337.5
50 Lt	28.8	324.3
25 Lt	39.0	314.1
6 Lt	44.4	308.7
2	41.6	311.5
25 Pt	41.6	311.5

353.08

50 Pt	50.4	302.7
62 Pt	50.0	303.1
100 Pt	77.9	275.2

418+25

125 Pt	77.3	275.8
160 Pt	69.5	283.6
50 Pt	47.7	305.4
25 Pt	32.2	320.9
2	25.0	328.1
25 Lt	26.8	326.3
50 Lt	18.7	334.4
64 Lt	12.4	340.7
65 Lt	9.5	343.6
100 Lt	11.9	341.2

418+0

100 Lt	11.4	341.7
75 Lt	9.0	344.1
50 Lt	6.9	346.2
25 Lt	8.5	344.6
10 Lt	7.4	345.7
2	12.6	340.5
11 Pt	16.7	336.4
25 Pt	26.1	327.0
50 Pt	40.4	312.7
75 Pt	49.5	303.6
113 Pt	65.6	287.5

7-30-30
35

278.50

114.11.2

340.65

47.5

343.51

12.87

330.76

6.11

337.57

280.00

Transit

3423.33

15.11

3438.44

1948.71

353.08

140' Pt	72.1	280.0
417+75		
120' Pt	73.3	279.8
90' Pt	50.2	302.9
75' Pt	53.5	299.6
50' Pt	45.0	308.1
25' Pt	52.5	320.6
2	18.2	334.9
12' Lt	12.6	340.5
20' Lt	4.4	348.7
25	4.4	348.7
50' Lt	6.5	346.6
75' Lt	9.0	344.1
100' Lt	11.1	342.0
417+50		
100' Lt	10.5	342.6
75' Lt	9.1	344.0
50' Lt	6.8	346.3
25' Lt	4.6	348.5
15' Lt	5.6	347.5
14' Lt	17.6	335.5
2	27.2	325.9
25' Pt	39.0	314.1
50' Pt	53.0	300.1
75' Pt	63.0	290.1
100' Pt	56.5	296.6

353.08

36

120' Pt	70.5	282.6
417+25		
65' Pt	68.7	284.4
50' Pt	60.0	293.1
25' Pt	48.4	304.7
2	28.4	324.7
15' Lt	16.4	336.7
21' Lt	5.4	347.7
25' Lt	5.1	348.0
50' Lt	7.4	345.7
75' Lt	8.8	344.3
100' Lt	10.0	343.1
417+10		
100' Lt	9.3	343.8
75' Lt	8.5	348.6
50' Lt	7.6	345.5
25' Lt	6.6	346.5
20' Lt	7.4	345.7
2	22.2	330.9
25' Pt	39.7	313.4
50' Pt	60.6	292.5
60' Pt	69.1	284.0
416+75		
57' Pt	66.8	286.3
50' Pt	58.7	294.4
25' Pt	44.0	309.1

284.5

Level #2
337.07 H1
327.76
338.77 A

286.00

Transit
394.817
11.80
883.91
12.69
691.107

353.08

23.6	330.5	
18.1	7.3	343.8
25.4	7.5	345.6
5.1	7.7	345.4
75.4	8.0	345.1
100.6	8.6	344.5

416.50

289.0

100.4	7.4	345.7
75.4	7.4	345.7
5.1	7.0	346.1
25.4	8.9	344.2
2	27.0	326.1
25.4	43.9	309.2
50.4	13.9	290.2
55.4	66.3	286.8

416.25

290.5

50.4	62.3	289.8
25.4	44.7	308.4
2	24.1	329.0
25.4	7.9	345.2
50.4	6.5	346.6
75.4	6.5	346.6
100.4	7.1	346.0

416.0

292.00

100.4	7.0	346.1
75.4	6.2	346.9

353.08

50.4	6.4	346.7
25.4	7.4	345.7
10.4	9.8	343.3
2	17.2	335.9
25.4	35.5	317.6
50.4	60.6	292.5

415.75

293.50

55.4	66.4	290.7
25.4	35.1	318.0
2	15.2	337.9
5.1	11.2	341.9
25.4	6.3	346.8
50.4	6.4	346.7
75.4	6.2	346.9
100.4	6.7	346.4

415.50

295.0

100.4	7.0	346.1
75.4	6.3	346.8
50.4	6.2	346.9
25.4	6.0	347.1
10.4	7.1	345.5
2	14.4	338.7
25.4	29.8	323.9
50.4	58.5	294.6

415.25

296.5

60.4	57.0	296.1
------	------	-------

37

Level No. 2
388777Transit
296.107
294.91
10.83
385737

50 ft	41.7	311.7	
25 ft	24.1	329.0	Level 11.2
2	7.6	345.5	388.777 10.05
25 ft	6.1	347.0	318.7 2-PLU 45 ft
50 ft	6.1	347.0	
75 ft	6.2	346.9	
100 ft	6.7	346.4	
	41510		298.0
100 ft	6.3	346.8	
75 ft	6.2	346.9	
50 ft	5.6	347.5	Front
25 ft	5.6	347.5	305.707 7.93
10 ft	6.5	346.6	TP 398.00 15 ft 45 ft
2	13.6	339.5	
25 ft	31.4	321.7	
50 ft	46.7	306.4	
75 ft	56.7	296.4	
TP	71.0	345.48	0.7 x 400 415425

4147.75 See 1400 Page 49,

See 1399-41 For $\frac{1}{2}$

" 1400 For Cross Sec.

Tarrey Pine Grad "D" Limit
 Additional Oats on Right
 472+0 to 465+0

12.75

Nov. 18. 30
 S. S. 109
 McHugh
 Flood
 Peorer

B.M. #11	118	12.75	11.57	B.P.P. 48.2 (471+20)
✓		472+0		
100' RL		14.2	-1.5	
150' RL		13.3	-0.6	
✓		471+75		
100' RL		13.6	-0.9	
150' RL		13.1	-0.4	
✓		471+50		
100' RL		13.2	-0.5	
150' RL		12.8	-0.1	
✓		471+25		
100' RL		13.1	-0.4	
150' RL		12.4	0.3	
✓		471+0		
100' RL		12.9	-0.2	
150' RL		12.0	0.7	
✓		470+75		
100' RL		13.2	-0.5	
150' RL		12.0	0.7	
✓		470+50		
100' RL		12.7	0.0	
150' RL		12.7	0.0	
✓		470+25		
100' RL		12.4	0.3	
150' RL		11.7	1.0	

Reduced Dec 1-1930

✓	470+0		
100' RL		12.1	0.6
150' RL		11.1	1.6
✓	469+75		
100' RL		12.2	0.5
125' RL		11.3	1.4
150' RL		10.2	2.5
✓	469+50		
100' RL		11.1	1.6
125' RL		9.2	3.5
150' RL		7.3	5.4
✓	469+25		
95' RL		10.3	2.4
105' RL		8.4	4.3
150' RL		5.2	7.5
✓	469+0		
100' RL		7.1	5.3
135' RL		4.6	8.1
150' RL		9.1	3.6
✓	468+75		
85' RL		6.7	6.0
100' RL		5.4	7.3
125' RL		5.7	7.0
135' RL		10.8	1.9
150' RL		12.5	0.2
	468+50		

12.75

80° Pt	72	5.5
100° Pt	4.3	8.4
115° Pt	5.9	6.8
130° Pt	11.0	1.7
150° Pt	12.8	-0.1

468+25

90° Pt	3.0	9.7
115° Pt	12.3	2.4
150° Pt	12.2	-0.5

468+0

90° Pt	3.3	9.4
100° Pt	4.8	7.9
125° Pt	12.0	0.7
150° Pt	13.2	-0.5

467+75

95° Pt	5.4	7.3
110° Pt	11.4	1.3
150° Pt	13.2	-0.5

467+50

85° Pt	8.9	3.9
100° Pt	12.2	0.5
150° Pt	13.2	-0.5

467+25

100° Pt	13.8	-1.1
150° Pt	13.9	-1.2

12.75

467+0 40

100° Pt	13.3	-0.6
150° Pt	13.9	-1.2

100° Pt	13.8	-1.1
150° Pt	14.6	-1.9

100° Pt	13.6	-0.9
125° Pt	14.9	2.2

150° Pt	15.1	2.4
---------	------	-----

90° Pt	12.4	0.3
110° Pt	14.5	1.8

150° Pt	15.4	2.7
---------	------	-----

TP	7.35	11.1	8.94	3.81	as of 6/26/00 Pt. -11.8 Elev. 27
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105° Pt	13.5	-2.4
150° Pt	13.5	-2.4

100° Pt	14.2	-3.5
150° Pt	14.8	-3.7

Terry Pipe Grade D Line
 Additional Duts on Right
 472+11.61 to 480+60

BM	224	6.22	3.98
✓	472+11.61 EC		
100' Pt	72	-1.0	
150' Pt	69	-0.7	
✓	472+50		
100' Pt	64	-0.2	
150' Pt	68	-0.6	
✓	472+90		
100' Pt	81	1.9	
150' Pt	67	-0.5	
✓	473+05		
100' Pt	78	-1.6	
150' Pt	71	-0.9	
✓	473+50		
100' Pt	69	-0.7	
150' Pt	74	-1.2	
✓	474+10		
100' Pt	8.0	-1.8	
150' Pt	68	-0.6	
✓	474+15		
100' Pt	77	-1.5	
150' Pt	68	-0.6	
✓	474+65		
100' Pt	59	0.3	
150' Pt	61	0.1	

09 2/4 Hub
 472+11.61-FC

6.22	274+85		
✓	100' Pt	6.0	0.2
	150' Pt	6.2	0.0
	175+10		
✓	100' Pt	6.8	-0.6
	150' Pt	6.0	0.2
✓	475+40		
	100' Pt	6.4	-0.2
	150' Pt	6.7	-0.5
✓	476+20		
	100' Pt	6.9	-0.7
	150' Pt	7.3	-1.1
✓	476+40		
	100' Pt	7.4	-1.2
	150' Pt	7.8	-1.6
✓	476+60		
	100' Pt	7.6	-1.4
	150' Pt	7.7	-1.5
	TP 129	6.23	4.28
			1.94
✓	477+10		
	100' Pt	8.0	-1.8
	150' Pt	8.4	-2.2
✓	477+30		
	100' Pt	7.1	-0.9
	150' Pt	8.0	-1.8

Nov 13 1939
 S. H. H. 13
 McHugh
 North 1/2
 Pearce

623

	177+60		
✓	100° Pt	6.1	0.1
	150° Pt	6.8	-0.6
	178+30		
✓	100° Pt	5.9	0.3
	150° Pt	6.7	-0.5
	178+50		
✓	100° Pt	6.0	0.2
	150° Pt	6.9	-0.7
	178+70		
✓	100° Pt	6.3	-0.1
	150° Pt	7.5	-1.3
	179+25		
✓	100° Pt	7.9	-1.7
	150° Pt	9.1	-3.2
	179+35		
✓	100° Pt	8.0	-1.8
	150° Pt	9.1	-3.2
	179+60		
✓	100° Pt	7.5	-1.3
	150° Pt	9.4	-3.2
	180+0		
✓	100° Pt	7.5	-1.3
	140° Pt	9.5	-3.3

623

44

✓	180+40		
	100° Pt	8.2	-2.0
	111° Pt	9.1	-2.9
	180+60	See Page 27	
	TP	7.63	9.92
	BM	3.94	2.29
		3.16	6.76
			#11 48.21
			180+00
			6.76

November Estimate Terry Pine "D Line"
 Cross Section Bottom of Cut
 Sta. 459+0 to 447+0

BM	1290	4924	3634	N 70° 46' E 50 ft 41+3038
		459+0		
26' Lt = Bot. Cut		59	43.3	
2		45	44.7	
		458+50		
13' Rt = Bot. Cut		0.5	48.7	
2		0.7	48.5	
27' Lt = Bot. Cut		0.4	48.8	
TP	1279	6192	4913	0.11
		458+0		
25' Lt		78	54.1	
2		86	53.3	
12' Rt		81	53.8	
		457+50		
15' Rt		48	57.1	
2		50	55.9	
28' Lt		40	57.9	
		457+0		
25' Lt		1.3	60.6	
2		2.3	59.6	
20' Rt		2.3	59.6	
TP	1305	7462	6157	0.35
		456+50		
18' Rt		116	63.0	
2		115	63.1	

Sec. Plotted Dec-1-1930

25' Lt		11.0		
	74.62			
	456+0			
25' Lt		7.8		66.8
2		80		66.6
16' Rt		7.8		66.8
		455+50		
15' Rt		41		70.5
2		44		70.2
25' Lt		41		70.5
		455+0		
25' Lt		0.8		73.8
2		1.4		73.2
18' Rt		1.3		73.3
TP	1272	8718	7436	0.26
		454+50		
19' Rt		10.1		77.1
2		10.3		76.9
25' Lt		10.0		77.2
		454+0		
25' Lt		7.3		78.9
2		8.0		79.2
18' Rt		7.9		79.3
		453+50		
24' Rt		66		80.6
2		60		81.2
25' Lt		55		81.7

H. 238-30
 15
 63.6

87.18

453.10

26 Lt	2.4	84.8
L	3.4	83.8
27 Pt	4.0	83.2

452.50

28 Pt	1.7	85.5
L	1.7	85.5
27 Lt	1.2	85.9

452.10

27 Lt	0.0	87.2
L	0.7	86.5
29 Pt	1.2	86.0

TP 12.96 100.09 0.05 87.13

451.50

29 Pt	12.5	87.6
L	11.7	88.4
26 Lt	11.0	89.1

451.10

26 Lt	9.6	90.5
L	9.0	91.1
27 Pt	8.9	91.2

450.50

27 Pt	6.7	93.4
L	6.2	93.9
26 Lt	7.2	92.9

450.10

100.09

46

26 Lt	4.1	95.7
L	1.5	97.6
30 Pt	2.0	98.1

TP 12.96 112.97 0.11 99.98

449.50

29 Pt	11.8	101.1
L	11.6	101.3
26 Lt	12.1	100.8

449.10

27 Lt	8.2	104.7
L	8.3	104.6
20 Pt	8.9	104.0

448.50

30 Pt	6.6	106.3
L	5.6	106.3
27 Lt	5.1	107.8

448.10

27 Lt	2.3	110.6
L	2.5	109.4
30 Pt	4.6	108.3

447.50

30 Pt	2.7	110.2
L	2.2	110.7
27 Lt	1.4	111.8

447.10

25 Lt	0.7	112.2
-------	-----	-------

112.97

2	11	111.8
27 Rt	16	111.3

427+50 Stub 0.7 ft

112.97
 102.71
 10.26
 0.00
 +10.3 For Check 10.3

Monthly Estimate
of Culverts

Nov 27-30

Culverts

Culvert 460+0 78 ft of 18" Pipe
 19 ft on Right 6.0 Above Floor Line

Culvert 413+40 90.5 ft of 18" Pipe in
 19 ft on Right 9.5 Above Floor Line

Culvert 439+10 191.8 ft of 24" Pipe
 17.5 Cords Concrete For Grade

Culvert 437+10 102.7 ft of 18" Pipe
 19 ft on Right Excess 19

Culvert 432+75 74 ft of 18" Pipe
 1.5 Cords Conc. For Grade

All Clearing Complete

Cross Section of Sand Fill
 Made From Borrow Pit at 9 Ft.
 From Sta. 466+0 to 481+50

BM	0.71	12.28	11.57	21' 8" P 29' 11" 171-179
		466+0 - Starting of Sandfill		
15' H		6.0	6.3	
2		5.5	6.8	
53' Pt		8.1	4.2	
71' Pt - Top S. Water		15.4	-3.1	
	+50			
64' Pt		15.5	-3.2	
50' Pt		6.8	5.5	
36' Pt		2.8	9.5	
2		3.6	8.7	
9' H		9.5	2.8	
	467+0			
7' H		9.0	3.3	
2		4.8	7.5	
40' Pt		4.5	7.8	
51' Pt		8.0	4.3	
61' Pt - Water		15.8	-3.5	
	+50			
60' Pt - Water		15.6	-3.3	
50' Pt		7.0	5.3	
40' Pt		3.4	8.9	
2		3.2	9.1	
8' H		2.5	4.8	
	468+0			

Sec. Plotted Dec. 1 - 1930

12.28	6.9	5.4
2.8	2.8	9.5
2.6	2.6	9.7
7.6	7.6	4.7
15.6	15.6	-3.3
	+50	
58' Pt - Water	15.5	-3.2
50' Pt	8.4	3.9
37' Pt	3.3	9.0
2	4.4	7.9
5' H	6.9	5.4
	469+0	
7' H	7.5	4.8
2	3.8	8.5
10' Pt	3.8	8.5
50' Pt	6.8	5.5
12' Pt - Water	15.5	-3.2
	+50	
59' Pt - Water	15.5	-3.2
50' Pt	9.1	3.2
10' Pt	4.1	8.2
5' Pt	5.7	6.6
2	7.1	5.2
	470+0	
3' H	10.5	1.7
2	8.2	4.1

Nov 29-30
 48

1228

5' Pt	1.5	- 5.8
10' Pt	4.3	8.0
50' Pt	2.3	4.0
58' Pt - Water	15.5	- 3.2
+150		
57' Pt - Water	15.5	- 3.2
50' Pt	11.1	1.2
42' Pt	6.8	5.5
4	7.2	5.0
4.11	10.1	2.2
47140		
4.11	7.7	4.6
4	5.1	6.7
15' Pt	5.7	6.6
55' Pt	9.8	2.5
60' Pt - Water	15.5	- 3.2
+150		
60' Pt - Water	15.6	- 3.3
50' Pt	9.3	3.0
42' Pt	5.1	6.9
4	6.0	6.3
8.11	6.7	5.6
17210		
4	6.5	5.8
10' Pt	4.5	7.8
50' Pt	10.1	2.2

1229

49

56' Pt - Water	15.6	- 3.3
472-11.11-50		
57' Pt	15.5	- 3.2
15' Pt	9.0	3.3
38' Pt	4.1	7.9
4	1.6	5.7
472-150		
4.11	7.6	4.7
4	6.8	5.5
38' Pt	5.4	6.9
50' Pt	10.3	2.0
60' Pt - Water	15.6	- 3.3
47310		
59' Pt - Water	15.5	- 3.2
50' Pt	8.8	3.5
40' Pt	1.7	7.6
4	6.4	5.9
TP	4.94	11.71
5.51	6.97	
+150		
4.11	5.6	6.1
4	5.3	6.4
10' Pt	5.0	6.7
50' Pt	8.8	2.9
55' Pt - Water	15.0	- 3.3
47410		
57' Pt - Water	15.1	- 3.4

11.71

50' RL	83	3.5
40' RL	25	8.2
L	49	6.8
	174.50	
5' LT	59	5.9
L	48	6.9
35' RL	23	8.5
50' RL	81	3.6
58' RL - Water	151	-3.4
	475.10	
57' RL - Water	151	-3.4
47' RL	71	4.3
35' RL	34	8.3
L	41	7.6
1' LT	40	7.7
	+50	
4' LT	45	7.2
L	14	7.3
35' RL	36	8.1
45' RL	77	4.0
54' RL - Water	150	-3.3
	176.10	
55' RL - Water	151	-3.4
48' RL	99	1.8
35' RL	43	7.4
L	43	7.5

11.71

5' LT	42	7.5 ⁵⁰
	+50	
L	47	7.0
39' RL	46	7.1
49' RL	83	3.4
58' RL - Water	151	-3.4
	477.10	
58' RL - Water	151	-3.4
50' RL	96	2.1
37' RL	40	7.7
L	45	7.2
5' LT	50	6.7
	+50	
4' LT	53	6.4
L	52	6.5
35' RL	45	7.2
50' RL	95	2.2
56' RL - Water	151	-3.4
	479.40	
57' RL - Water	151	-3.4
45' RL	68	4.9
35' RL	38	7.9
L	47	7.0
5' LT	50	6.7
	+50	
3' LT	41	7.6

11.71

4		41	7.6
35 PL		54	6.3
42 PL		86	3.1
50 PL - Water		150	-3.3

179.10

52 PL - Water		151	-3.4
42 PL		70	4.7
35 PL		38	7.9
4		52	6.5
54		57	6.0

+50

84		27	9.0
4		30	8.7
30 PL		28	7.9
42 PL		96	2.1
16 PL - Water		150	-3.3

189.40

47 PL - Water		151	-3.2
40 PL		101	1.1
30 PL		37	8.0
4		52	6.4
84		51	6.6

TP	1.42	821	492	6.79
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+50

4		52	3.0
30 PL		16	6.6

8.21

41 PL		112	-3.0
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181.70

41 PL		98	-1.6
37 PL		76	0.6
20 PL		68	1.4
4		82	0.0

+50

3 PL		76	0.6
20 PL		78	0.4
38 PL		98	-1.6
BM		136	6.25

6.25

112

114 184.102

6.71

51

November Estimate
 Cross Section Bottom of Cuts
 436+0 to 441+0

BM	0.39	129.39	129.00	48
TP	12.57	137.53	4.43	124.96
TP	12.52	150.00	0.05	137.43

441+0

27' Lt		1.17		135.3
25' Lt		9.4		140.6
2		12.0		138.0
28' Rt		15.7		134.3

440+7.5

28' Rt		11.9		138.1
2		10.2		139.8
25' Lt		8.4		141.6
38' Lt		12.0		138.0

440+5.0

50' Lt		5.4		144.6
25' Lt		6.6		143.4
2		7.8		142.2
15' Rt		9.3		140.7

440+2.5

2		6.6		143.4
35' Lt		4.4		145.6
50' Lt		0.8		149.2

440+0

25' Lt		2.1		147.9
10' Lt		1.4		148.6

Dec. 1-30 52

150.00

50' Lt				+2.7	152.7
62' Lt				+9.8	157.8
TP	11.85	161.43	0.42		149.58
TP	12.13	173.47	0.09		161.34

437+9.0

15' Rt				13.1	160.4
2				11.9	161.6
23' Lt				10.8	162.7
30' Lt				9.2	164.3

437+5.0

24' Lt - Bot. Slope				9.7	163.8
2				9.4	164.1
27' Rt				11.0	162.5

437+2.5

28' Lt				8.0	165.5
2				6.7	166.8

436+7.5

25' Lt				3.0	170.5
2				2.4	170.1
22' Rt				3.3	170.2

TP	12.24	185.14	0.27		173.20
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436+5.0

25' Rt				10.5	174.9
2				11.7	173.7
35' Lt				10.4	175.0

Sec. Plotted Dec. 1-1930

185.44

43670

27.44

3.6

181.8

2

53

180.1

25.71

40

181.4

Cross Section of Borrow Pit on Right
 and Fill From Station 466+0 to 482+0

Dec 9 1934
 54

BM	0.68	12.55	11.57	#11 2" IP #12 1 1/2" IP
✓ 15 Lt		6.0	6.3	
2		5.5	6.0	
53 Pt		8.1	4.2	
91 Pt - Top layer water		15.4	-3.1	
80 Pt		16.1	-3.8	
90 Pt		15.6	-3.3	
95 Pt - Edge of Pit		13.6	-1.3	
✓ 95 Pt	466 +25	13.7	-1.4	
90 Pt		17.1	-4.8	
80 Pt		18.6	-6.3	
65 Pt - 5' water		15.6	-3.3	
55 Pt		8.0	4.3	
40 Pt		6.2	6.1	
2		4.4	7.9	
12 Lt		7.8	4.5	
✓ 9 Lt	466 +50	9.5	2.8	
2		3.6	8.7	
36 Pt		2.8	9.5	
50 Pt		6.8	5.5	
64 Pt - water		15.4	-3.3	
73 Pt		18.6	-6.3	

80 Pt	19.6	-7.3
90 Pt	18.6	-6.3
95 Pt	12.6	-0.3
✓ 95 Pt	466 +80	
95 Pt	13.0	-0.7
90 Pt	16.6	-4.3
80 Pt	19.6	-7.3
70 Pt	17.9	-5.6
62 Pt	15.5	-3.2
55 Pt	8.2	4.1
42 Pt	3.7	8.6
2	3.9	8.4
7 Lt	8.4	5.9
✓ 8 Lt	467 +0	
2	9.0	3.3
4	18	7.5
10 Pt	15	7.8
51 Pt	8.0	4.3
61 Pt	15.8	-3.5
70 Pt	18.7	-6.4
80 Pt	19.5	-7.2
90 Pt	16.3	-4.0
91 Pt	13.6	-1.3
✓ 90 Pt	467 +25	
90 Pt	13.3	-1.0
87 Pt	16.6	-4.3

1225

80° Pt.	19.1	-6.8
70° Pt.	18.3	-6.0
56° Pt.	15.6	-3.3
50° Pt.	7.1	5.2
40° Pt.	3.5	8.8
2	4.4	7.9
8 Lt.	8.7	3.6
✓	467+50	
8 Lt.	7.5	4.8
2	3.2	9.1
10° Pt.	3.4	8.9
50° Pt.	7.0	5.5
60° Pt.	15.6	-3.3
70° Pt.	18.6	-5.9
80° Pt.	18.9	-6.5
90° Pt.	16.2	-3.9
95° Pt.	12.1	0.2
✓	467+75	
100° Pt.	8.3	4.0
90° Pt.	16.5	-4.2
80° Pt.	18.6	-6.3
70° Pt.	17.8	-5.5
60° Pt.	15.6	-3.3
50° Pt.	7.3	5.0
38° Pt.	3.2	9.1
2	1.1	7.9

1225

55

7 Lt.	7.5	4.8
✓	468+50	
7 Lt.	6.9	5.4
2	2.8	9.5
35° Pt.	2.6	9.7
50° Pt.	7.6	4.7
59° Pt.	15.6	-3.3
70° Pt.	17.4	-5.1
80° Pt.	18.3	-6.0
92° Pt.	15.6	-3.3
95° Pt.	11.8	0.5
105° Pt.	6.5	5.8
✓	468+75	
110° Pt.	7.6	4.7
95° Pt.	14.2	-1.9
92° Pt.	15.6	-3.3
80° Pt.	18.8	-6.5
70° Pt.	18.1	-5.8
60° Pt.	15.6	-3.3
50° Pt.	7.6	4.7
37° Pt.	2.7	9.6
2	3.0	9.3
7 Lt.	7.0	5.3
✓	468+50	
5 Lt.	6.9	5.4
2	4.4	7.9

1225

32' Pt	3.3	9.0
50' Pt	8.4	3.9
58' Pt	15.5	-3.2
70' Pt	18.1	-5.8
80' Pt	18.1	-5.8
90' Pt	15.6	-3.3
92' Pt	14.7	-2.4
105' Pt	13.0	-0.7
115' Pt	6.2	6.1

118+75

115' Pt	9.5	2.8
93' Pt	14.6	-2.3
96' Pt	15.6	-3.3
80' Pt	18.4	-6.1
70' Pt	18.2	-5.9
60' Pt	15.6	-3.3
45' Pt	5.4	6.9
37' Pt	4.3	6.0
2	3.3	9.0
7' Pt	7.3	5.0

119+40

7' Pt	7.5	4.8
2	3.8	8.5
40' Pt	3.8	8.5
50' Pt	6.8	5.5
62' Pt	15.5	-3.2

1235

70' Pt	17.4	-5.1
80' Pt	18.3	-6.0
90' Pt	15.6	-3.3
97' Pt	13.0	-0.7
120' Pt	11.8	0.5
115' Pt	5.1	7.2

119+25

150' Pt	6.2	6.0
120' Pt	11.8	0.5
100' Pt	12.8	-0.5
95' Pt	15.5	-3.2
80' Pt	18.6	-6.3
70' Pt	17.6	-5.3
60' Pt	15.6	-3.3
50' Pt	7.3	5.0
40' Pt	3.6	8.7
2	5.3	7.0
3' Pt	7.0	5.3

119+50

2	7.1	5.2
5' Pt	5.7	6.6
40' Pt	4.1	4.2
50' Pt	9.1	3.2
59' Pt	15.5	-3.2
70' Pt	17.7	-5.4
80' Pt	19.1	-6.8

56

1225

90° Pt	17.5	-5.2
96° Pt	15.5	-3.2
98° Pt	13.4	-1.1
120° Pt	8.7	3.6

✓ 469+75

130° Pt	11.1	1.2
103° Pt	14.4	-2.1
100° Pt	15.6	-3.3
90° Pt	18.6	-6.3
80° Pt	18.9	-6.6
70° Pt	18.8	-6.5
58° Pt	15.5	-3.2
50° Pt	6.4	5.9
35° Pt	4.9	7.4
2	6.6	5.7
5' H	10.0	2.3

✓ 470+0

3' H	10.5	1.8
2	8.2	4.1
5° Pt	6.5	5.8
40° Pt	13	7.9
50° Pt	8.3	4.0
58° Pt	15.5	-3.2
70° Pt	17.4	-5.1
80° Pt	18.6	-6.3
90° Pt	17.7	-5.4

1225

99° Pt	15.6	-3.3
100° Pt	14.6	-2.3
110° Pt	14.5	-2.2
120° Pt	11.6	0.7

✓ 470+25

130° Pt	12.0	0.3
110° Pt	14.4	-2.1
102° Pt	14.7	-2.4
100° Pt	15.6	-3.3
90° Pt	18.6	-6.3
80° Pt	19.4	-7.1
70° Pt	18.6	-6.3
58° Pt	15.6	-3.3
53° Pt	10.8	1.5
40° Pt	5.1	7.2
2	6.4	5.9
5' H	10.2	2.1

✓ 470+50

4' H	10.1	2.2
2	7.3	5.0
43° Pt	6.8	6.5
50° Pt	11.1	1.2
57° Pt	15.5	-3.2
70° Pt	18.1	-6.3
80° Pt	19.0	-6.7
90° Pt	18.9	-6.6

57

12.25

100' Pt		155	-3.2	
102' Pt		147	-2.4	
120' Pt		141	-1.8	
130' Pt		121	0.2	
✓	170+75			
130' Pt		115	0.8	
125' Pt		141	-1.8	
110' Pt		147	-2.4	
100' Pt		146	-2.3	
99' Pt		156	-3.3	
90' Pt		186	-6.3	
80' Pt		187	-6.4	
70' Pt		178	-5.5	
60' Pt		156	-3.3	
55' Pt		93	3.0	
42' Pt		58	6.9	
2		67	5.6	
3' Lt		88	3.5	
TP	194	8.53	566	6.59
✓	171+0			
4' Lt		4.3	4.2	
2		2.0	6.5	
15' Pt		1.7	6.8	
52' Pt		4.6	3.9	
60' Pt		12.0	-3.5	
70' Pt		14.8	-6.3	

8.53

58

80' Pt		16.0	-7.5
90' Pt		15.4	-6.9
100' Pt		12.0	-3.5
103' Pt		11.2	-2.7
123' Pt		10.6	-2.1
130' Pt		7.5	1.0
✓	471+25		
135' Pt		8.3	0.2
125' Pt		10.8	-2.3
103' Pt		14.0	-2.5
102' Pt		12.0	-3.5
90' Pt		16.6	-8.1
80' Pt		17.0	-8.5
70' Pt		14.7	-6.2
60' Pt		12.0	-3.5
55' Pt		7.5	1.0
42' Pt		1.4	7.1
2		2.1	6.4
5' Lt		4.7	3.8
✓	471+50		
5' Lt		2.1	6.4
2		2.1	6.4
42' Pt		1.7	6.8
50' Pt		5.2	3.3
60' Pt		12.0	-3.5
70' Pt		15.7	-7.2

8.53

80' Pt	17.2	-8.7
90' Pt	16.6	-8.1
103' Pt	12.0	-3.5
104' Pt	11.0	-2.5
120' Pt	10.4	-1.9
125' Pt	8.7	-0.2
✓	471+75	
125' Pt	8.7	-0.2
115' Pt	11.0	-2.5
98' Pt	12.0	-3.5
90' Pt	15.5	-7.0
80' Pt	16.6	-8.1
70' Pt	15.0	-6.5
- 59' Pt	12.0	-3.5
48' Pt	5.8	2.7
39' Pt	11	7.4
2	2.9	5.6
3' Lt	4.1	4.4
✓	172+10	
2	2.7	5.8
40' Pt	0.6	7.9
48' Pt	5.3	3.2
- 56' Pt	12.1	-3.6
70' Pt	15.8	-7.3
80' Pt	15.8	-7.3
93' Pt	12.0	-3.5

8.53

59

95' Pt	11.4	-2.9
122' Pt	10.5	-2.0
127' Pt	9.2	-0.7
✓	172+111 EC	
125' Pt	9.4	-0.9
120' Pt	11.1	-2.6
97' Pt	11.3	-2.8
96' Pt	12.0	-3.5
90' Pt	13.8	-5.3
80' Pt	15.6	-7.1
70' Pt	15.7	-7.2
- 57' Pt	12.0	-3.5
45' Pt	5.0	3.5
38' Pt	0.8	7.7
2	2.8	5.7
✓	172+50	
4' Lt	3.9	4.6
2	3.1	5.4
38' Pt	1.9	6.6
48' Pt	6.4	7.1 ?
- 58' Pt	12.0	-3.5
70' Pt	14.5	-6.0
80' Pt	16.0	-7.5
90' Pt	14.2	-5.7
98' Pt	12.0	-3.5
100' Pt	11.4	-2.9

8.53

125' Pt	10.8	-2.3
135' Pt	9.0	-0.5
✓	172+90	
130' Pt	9.4	-0.9
125' Pt	10.8	-2.3
98' Pt	11.1	-2.6
97' Pt	12.0	-3.5
90' Pt	14.7	-6.2
80' Pt	15.0	-6.5
70' Pt	14.0	-5.5
- 57' Pt	12.0	-3.5
50' Pt	5.0	3.5
40' Pt	1.2	7.3
2	2.2	6.3
✓	473+0.5	
4' Lt	2.8	5.7
2	2.8	5.7
40' Pt	0.8	7.7
50' Pt	6.6	1.9
- 57' Pt	12.0	-3.5
70' Pt	14.0	-5.5
80' Pt	14.9	-6.4
90' Pt	14.8	-6.3
97' Pt	12.0	-3.5
98' Pt	11.1	-2.6
120' Pt	10.8	-2.3

8.53

60

125' Pt	8.7	-0.2
✓	473+50	
120' Pt	9.0	-0.5
115' Pt	10.8	-2.3
95' Pt	10.7	-2.2
94' Pt	12.0	-3.5
80' Pt	15.7	-7.2
70' Pt	15.8	-6.7
- 55' Pt	12.0	-3.5
50' Pt	5.7	2.8
40' Pt	2.0	6.5
2	2.1	6.4
5' Lt	2.4	6.1
✓	474+0	
2	1.7	6.8
10' Pt	0.3	8.2
50' Pt	4.8	3.7
- 59' Pt	12.0	-3.5
70' Pt	14.8	-6.3
80' Pt	16.0	-7.5
92' Pt	12.0	-3.5
93' Pt	11.0	-2.5
120' Pt	10.7	-2.2
125' Pt	9.1	-0.6
✓	474+15	
125' Pt	9.0	-0.5

853

120' Pt		10.6	-2.1	
97' Pt		10.2	-1.7	
95' Pt		12.0	-3.5	
90' Pt		13.5	-5.0	
80' Pt		16.0	-7.5	
70' Pt		15.2	-6.7	
- 58' Pt		12.0	-3.5	
50' Pt		4.1	4.4	
38' Pt		9.4	8.1	
2		1.8	6.7	
3' Lt		1.8	6.7	
✓	174+65			
5' Lt		1.6	6.9	
2		1.6	6.9	
35' Pt		0.0	8.5	
- 15' Pt		1.0	4.5	
58' Pt		12.0	-3.5	
70' Pt		16.4	-7.9	
80' Pt		16.5	-8.0	
90' Pt		14.6	-6.1	
95' Pt		12.0	-3.5	
96' Pt		11.3	-2.8	
123' Pt		10.7	-2.2	
123' Pt		8.3	0.2	
TP	10.97	8.86	10.64	-2.11

886

61

✓	174+85		
125' Pt		10.2	-1.3
120' Pt		11.1	-2.2
95' Pt		11.3	-2.4
93' Pt		12.3	-3.4
90' Pt		14.1	-5.2
80' Pt		17.1	-8.2
70' Pt		15.9	-7.0
59' Pt		12.3	-3.4
- 18' Pt		5.3	3.6
36' Pt		0.0	8.9
2		1.5	7.4
✓	175+00		
4' Lt		1.1	7.8
2		1.1	7.8
36' Pt		0.3	8.6
15' Pt		5.2	5.7
57' Pt		12.3	-3.4
70' Pt		17.0	-8.1
80' Pt		17.9	-9.0
90' Pt		13.6	-4.7
95' Pt		13.3	-3.4
96' Pt		11.1	-2.2
125' Pt		10.1	-1.2
130' Pt		9.2	-0.3
✓	175+40		

8.86

✓ 120 RT	9.0	-0.1
114 RT	11.6	-2.7
96 RT	11.5	-2.6
95 RT	12.3	-5.4
90 RT	13.8	-4.9
80 RT	16.1	-7.2
70 RT	16.5	-7.6
56 RT	12.3	-3.4
- 15 RT	4.5	4.4
35 RT	0.2	8.7
2	1.4	7.5
6 Lt	1.2	7.7
✓ 476+00		
6 Lt	1.2	7.7
2	1.3	7.6
35 RT	1.5	7.4
- 45 RT	7.0	1.9
55 RT	12.3	-4.4
70 RT	16.7	-7.8
80 RT	16.0	-7.1
88 RT	14.3	-5.4
90 RT	12.3	-3.4
105 RT	11.9	-3.0
112 RT	9.6	-0.7
✓ 476+140		
110 RT	10.2	-1.3

8.86

62

105 RT	11.7	-2.8
93 RT	11.7	-2.9
92 RT	12.3	-3.4
✓ 80 RT	15.9	-7.0
70 RT	15.3	-6.4
59 RT	12.3	-3.4
- 50 RT	7.5	1.4
37 RT	2.0	6.9
2	1.8	7.1
✓ 476+10		
1 Lt	2.1	6.8
2	2.0	6.9
36 RT	1.5	7.4
- 50 RT	6.5	2.4
58 RT	12.3	-5.4
70 RT	15.3	-6.4
80 RT	15.7	-6.8
86 RT	14.3	-5.4
90 RT	12.3	-3.4
91 RT	11.8	-2.9
110 RT	11.5	-2.6
113 RT	10.5	-1.6
✓ 477+0		
116 RT	10.9	-2.0
93 RT	12.3	-3.3
90 RT	14.3	-5.4

8.86

80' Pt	17.9	-8.0
70' Pt	16.7	-7.8
58' Pt	12.3	-3.4
- 50' Pt	7.6	1.3
38' Pt	1.0	7.9
2	1.6	7.3
5' Lt	2.2	6.7

✓ 177+30

2	2.1	6.8
36' Pt	2.4	6.5
- 50' Pt	7.2	1.7
58' Pt	12.3	-3.4
70' Pt	15.7	-6.8
80' Pt	16.1	-7.3
90' Pt	13.5	-4.6
92' Pt	12.3	-3.4
94' Pt	12.9	-3.1
110' Pt	12.4	-3.5
112' Pt	10.0	-1.1

✓ 477+60

112' Pt	9.2	-0.3
108' Pt	11.4	-2.5
93' Pt	11.9	-3.0
92' Pt	12.3	-3.4
90' Pt	12.8	-4.9
80' Pt	16.3	-7.4

8.86

63

70' Pt	15.9	-7.0
60' Pt	14.3	-5.4
55' Pt	12.3	-3.4
50' Pt	7.5	1.4
- 35' Pt	2.1	6.8
2	2.4	6.5
5' Lt	2.7	6.2

178+0

5' Lt	2.2	6.7
2	1.9	7.0
35' Pt	1.2	6.7
45' Pt	3.7	5.2
59' Pt	12.3	-3.4
60' Pt	13.5	-4.6
70' Pt	14.9	-6.0
80' Pt	15.0	-6.1
85' Pt	12.3	-3.4
87' Pt	11.8	-2.9
103' Pt	14.6	-2.7
110' Pt	8.8	0.1

✓ 478+30

109' Pt	9.1	-0.2
103' Pt	11.5	-2.6
86' Pt	11.8	-2.9
84' Pt	12.3	-3.4
80' Pt	14.3	-5.4

886

70' Pt		14.8	-5.9
60' Pt		13.9	-5.0
54' Pt		12.3	-3.4
- 45' Pt		5.4	3.5
35' Pt		2.0	6.9
2		1.4	7.5
5' Lt		1.9	7.0
TP	279	967	208
✓		478+50	678
3' Lt		2.2	7.5
2		2.2	7.5
- 35' Pt		2.3	6.4
45' Pt		6.5	3.2
50' Pt		13.1	-3.4
60' Pt		16.5	-6.8
70' Pt		17.3	-7.6
80' Pt		14.7	-5.0
85' Pt		13.1	-3.4
86' Pt		12.7	-3.0
100' Pt		12.0	-2.3
107' Pt		9.4	-0.3
✓		478+70	
105' Pt		9.4	-0.3
90' Pt		13.1	-3.4
80' Pt		16.4	-6.7
70' Pt		17.0	-7.3

967

64

60' Pt		16.4	-6.7
50' Pt		14.4	-4.7
47' Pt		13.1	-3.4
40' Pt		6.9	2.8
- 35' Pt		3.3	6.4
2		2.3	7.4
5' Lt		2.7	7.0
5' Lt		3.6	6.1
2		3.1	6.6
55' Pt		2.0	7.7
43' Pt		5.0	4.7
50' Pt		13.1	-3.4
60' Pt		15.3	-5.6
70' Pt		16.9	-7.2
80' Pt		15.7	-6.0
88' Pt		13.1	-3.4
90' Pt		12.6	-2.9
98' Pt		12.3	-2.6
103' Pt		10.3	-0.6
✓		479+25	
100' Pt		11.1	-1.4
87' Pt		12.7	-3.0
86' Pt		13.1	-3.4
80' Pt		15.7	-6.0
70' Pt		17.1	-7.4

9.67

60' Pt	15.2	-5.5
51' Pt	13.1	-3.4
42' Pt	5.7	4.0
- 33' Pt	2.7	7.0
2	3.0	6.7
5' Lt	3.4	6.3
✓	179+35	
5' Lt	2.0	7.7
2	2.1	7.6
30' Pt	2.5	7.2
- 42' Pt	5.8	3.9
51' Pt	13.1	-3.4
60' Pt	15.3	-5.6
70' Pt	17.1	-7.4
80' Pt	17.1	-7.4
87' Pt	13.1	-3.4
88' Pt	12.5	-2.8
100' Pt	11.4	-1.7
✓	479+60	
100' Pt	11.4	-1.7
98' Pt	13.1	-3.4
90' Pt	17.1	-7.4
80' Pt	19.1	-9.4
70' Pt	19.1	-9.7
60' Pt	18.5	-8.8
50' Pt	15.4	-5.7

9.67

65

17' Pt	13.1	-5.4
- 13' Pt	7.7	2.0
28' Pt	2.2	7.5
2	1.1	8.6
8' Lt	1.0	8.7
✓	180+10	
10' Lt	2.7	6.0
2	3.2	6.5
30' Pt	1.6	8.1
- 43' Pt	9.2	0.5
50' Pt	13.1	-3.4
60' Pt	17.3	-8.1
70' Pt	20.1	-10.4
80' Pt	19.4	-9.7
90' Pt	17.4	-7.7
98' Pt	13.1	-3.4
100' Pt	11.2	-1.5
✓	180+40	
95' Pt	11.4	-1.7
93' Pt	13.1	-3.4
90' Pt	14.3	-4.6
80' Pt	15.1	-5.4
70' Pt	15.1	-5.4
51' Pt	13.1	-3.4
- 45' Pt	10.4	-0.7
30' Pt	2.2	7.5

9.67

Σ		42	5.5
✓	480+60		
Σ		79	1.8
25' Pt		41	5.6
30' Pt		104	-0.7
- 50' Pt		131	-3.4
60' Pt		171	-7.4
70' Pt		194	-9.7
80' Pt		199	-10.2
90' Pt		133	-3.6
92' Pt		121	-2.4
✓	481+00		
100' Pt		164	-6.7
90' Pt		156	-5.9
80' Pt		158	-6.1
70' Pt		161	-6.4
60' Pt		137	-4.0
57' Pt		131	-3.4
- 55' Pt		118	-2.1
38' Pt		90	0.7
20' Pt		79	1.8
Σ		96	0.1
	481+35		
Σ ✓		91	0.6
20' Pt		74	0.3
- 48' Pt		120	-2.3

9.67

66

51' Pt		112	-4.5
60' Pt		177	-8.0
70' Pt		187	-9.0
80' Pt		171	-7.4
90' Pt		176	-7.3
100' Pt		171	-7.4
✓	481+60		
100' Pt		175	-7.8
90' Pt		180	-8.3
80' Pt		193	-9.6
70' Pt		187	-9.0
60' Pt		176	-7.9
52' Pt		157	-6.0
- 50' Pt		126	-2.9
Σ		84	1.3
	481+75		
Σ		104	-0.7
25' Pt		106	-0.9
15' Pt		126	-2.9
- 50' Pt		151	-5.4
60' Pt		175	-7.8
70' Pt		183	-8.6
80' Pt		189	-9.2
90' Pt		173	-7.6
100' Pt		175	-7.8

9.67

48210

100' Pt	17.8	-8.1	
90' Pt	17.3	-7.6	
80' Pt	17.1	-7.4	
70' Pt	16.7	-7.0	
- 60' Pt	16.4	-6.7	-
- 50' Pt	16.1	-6.4	-
40' Pt	14.9	-5.2	
33' Pt	13.1	-3.4	
1/2	11.7	-2.0	
BM	283	6.84	#2 48.4, 48.4, 02 6.76

67

Torrey Pines Grade D Line
 Additional Outlets on Left
 439+50 to 440+50

Original Sec Sec Prop ⁵/₁₁

BM	10.99	151.35	140.36	1411+
TP	12.17	163.07	0.45	150.90
		139+50		
6.5 Lt of 2		17.0	146.1	✓
7.5 Lt		14.8	148.3	✓
9.5 Lt		14.0	149.1	
		439+65		
9.5 Lt		8.7	154.4	
8.0 Lt		9.4	153.7	
6.5 Lt		11.2	151.9	
4.0 Lt		20.3	142.8	
		439+75		
6.5 Lt		2.6	154.5	
8.0 Lt		6.4	156.7	
9.5 Lt		4.9	158.2	
		439+90		
9.5 Lt		+2.4	165.5	
8.0 Lt		1.1	162.0	
6.5 Lt		5.5	158.6	
		440+0		
6.5 Lt		3.5	159.6	
7.0 Lt		3.0	160.1	
7.6 Lt		6.4	156.7	
9.5 Lt		4.7	158.4	
10.0 Lt		+5.6	168.7	

163.07

440+10

105.6 Lt of 2	+5.8	168.9
9.5 Lt	6.4	156.7
8.0 Lt	8.4	154.7
6.5 Lt	8.2	154.9
5.8 Lt	6.3	156.8
	440+25	
5.0 Lt	15.4	147.7
6.5 Lt	13.4	149.7
8.5 Lt	11.4	151.7
10.0 Lt	6.5	156.6
	440+50	
5.0 Lt	18.3	144.8
6.5 Lt	18.2	144.9
8.0 Lt	14.0	149.1

68
 Dec 15-30

what

Torrey Pine Grad. D. Line
 Additional Outlets on Left
 419+50

Originals
 419+50 to 421+50 Page 32
 421+50 to 13999729

BM	0.08	340.73	340.65	
✓		419+50		
115' Lt of G		86	332.1	
140' Lt		17.9	322.8	
160' Lt		27.0	313.7	
175' Lt		55.0	305.7	
✓		419+75.61		4' Grade 269.21
200' Lt of G		53.9	286.8	
195' Lt		49.6	291.1	
175' Lt		42.9	297.8	
155' Lt		33.8	306.9	
135' Lt		27.2	313.5	
120' Lt		19.6	321.1	
TP	0.49	328.67	328.18	
✓		420+0		
120' Lt of G		16.1	312.6	267.75
135' Lt		23.4	305.3	
150' Lt		30.3	298.4	
175' Lt		38.4	290.3	
200' Lt		44.6	284.1	
220' Lt		53.3	275.4	
✓		420+25		
215' Lt		78.4	256.3	
200' Lt		64.3	264.4	
175' Lt		47.1	281.6	

328.67

Dec 22-30
 Survey
 McHarty
 Northway
 Penna
 69

140' Lt		38.0	300.7	Transit
✓ 115' Lt		19.8	309.9	340.73T 322.87 328.67
100' Lt		11.1	317.6	328.67 328.67
TP	0.50	316.27	315.77	322.92T 17.72 305.13 0.31
✓		420+50		305.44T 15.54 289.90 26.44
100' Lt of G		1.7	314.6	192.54T 12.46 280.08 28.23T 282.45T
125' Lt		15.8	300.5	
150' Lt		28.8	297.5	
175' Lt		36.7	279.6	
200' Lt		47.1	269.2	
208' Lt		51.0	265.3	
✓		420+75		
206' Lt		51.2	265.1	
200' Lt		47.2	268.5	
175' Lt		36.4	279.9	
145' Lt		23.8	292.5	
125' Lt		13.9	302.4	
110' Lt		4.7	311.6	
✓		421+0		
100' Lt		12.2	318.5	
120' Lt		9.9	306.4	
140' Lt		21.3	295.0	
175' Lt		36.1	280.2	
200' Lt		42.1	272.7	
210' Lt		50.8	265.5	

316.27

421+25

200' Lt	48.9	267.4
175' Lt	35.4	280.9
150' Lt	27.1	289.2
125' Lt	15.6	300.7
100' Lt	0.3	316.0

421+50

110' Lt	2.8	313.5
125' Lt	11.3	305.0
145' Lt	20.5	295.8
175' Lt	32.2	284.1
185' Lt	36.1	280.2
195' Lt	44.3	272.0
200' Lt	54.5	261.8

422+0 - P.C.L

200' Lt	60.4	255.9
190' Lt	48.2	268.1
175' Lt	36.2	280.1
150' Lt	20.0	296.3
125' Lt	6.8	309.5
TP	4.85	315.29

422+25

100' Lt	5.1	310.2
125' Lt	13.5	301.8
145' Lt	26.0	293.3
165' Lt	32.9	282.4

315.29

175' Lt	46.1	273.2
190' Lt	53.8	262.5
210' Lt	52.0	263.3
TP	4.48	314.92

422+50

231' Lt. of 2	47.3	267.6
212' Lt	39.5	275.4
197' Lt	35.8	279.1
175' Lt	32.7	282.2
140' Lt	26.8	288.1
115' Lt	17.4	297.5
100' Lt	9.8	305.1

423+0

110' Lt of 2	3.7	311.2
130' Lt	13.1	301.8
175' Lt	11.1	303.8
207' Lt	15.7	299.2
230' Lt	30.9	284.0
260' Lt	46.7	268.2

423+20

255' Lt	46.7	268.2
240' Lt	40.5	274.4
220' Lt	27.1	287.8
195' Lt	12.6	302.3
175' Lt	8.4	306.5
150' Lt	7.8	307.1

316.27

422+50

273.2	422+50
262.5	
263.3	
310.44	282.45
	283.16
	285.32
	287.24
	291.76
	294.93
	287.89

31492

126 Lt			62	308.7
115 Lt			0.5	314.4
✓ 423+40				
130 Lt of 2			2.6	311.3
150 Lt			5.5	309.4
175 Lt			15.3	299.6
200 Lt			25.0	289.9
220 Lt			37.0	277.9
250 Lt			49.8	265.1

423+60

255 Lt			59.5	255.4
226 Lt			50.0	264.9
198 Lt			33.4	281.5
175 Lt			25.2	289.7
146 Lt			12.2	302.7
125 Lt			4.3	310.6
TP	0.17	302.08	13.01	301.91
TP	0.81	290.04	12.85	289.23

424+0

140 Lt			4.5	285.5
164 Lt			13.4	276.6
TP	1.52	278.85	12.71	277.33
197 Lt			17.8	261.1
227 Lt			31.9	247.0
TP	0.83	266.70	12.98	265.87

212.75

26670

71

✓ 424+25				
220 Lt			25.5	241.2
205 Lt			20.8	245.9 Transit
175 Lt			14.5	252.2 284.87 187.00
155 Lt			6.9	259.8 272.23
132 Lt			2.3	264.4 272.59 11
TP	2.44	257.31	11.83	254.87
424+50				
135 Lt			9.5	247.8
150 Lt			12.9	244.4
175 Lt			22.9	234.4
025 Lt	0.5	425+0	15.9	✓ 227 22.1

278.85
266.8Transit
272.59
29.31
266.8

December Estimate

Cross Section Cut

Sta 421+0 to 423+50

BM	0.83	341.48	340.65
TP	0.21	329.07	12.65 328.83
TP	4.25	321.67	11.65 317.42

421+0

10' Lt on Temp. Fill	1.9	319.8
1/2	4.7	317.0
25' RT	5.3	316.4

421+50

90' RT	14.5	307.2
55' RT	9.5	312.2
1/2	11	310.6
25' LT	11.5	310.2
41' LT	3.7	318.0

422+0 P.C.

41' LT	3.1	318.6
1/2	4.2	317.5
25' RT	5.0	316.7
65' RT	4.9	316.8
90' RT	5.5	316.2
125' RT	6.3	315.4

422+50

160' RT	7.3	314.4
130' RT	6.2	315.5
100' RT	5.2	316.5
70' RT	4.6	317.1

Dec 26 1972

40' RT	4.7	317.0
1/2	4.1	317.6
20' LT	4.7	317.0
41' LT	4.1	317.6

423+0

42' LT	3.7	318.0
20' LT	4.3	317.4
1/2	4.0	317.7
30' RT	6.4	315.3
70' RT	5.5	316.2
100' RT	5.6	316.1
140' RT	7.7	314.0

423+50

120' RT	4.7	317.0
90' RT	4.7	317.0
60' RT	5.3	316.4
30' RT	10.0	311.7
1/2	10.3	311.4
15' LT	4.3	317.4
41' LT	3.1	318.1

December Estimate
Cross Section Cut

Original See Page 5
Additional cuts " 68

439+50 to 440+50

BM	12.21	152.57	140.36	St 441
		139+65 = Beg. of Cut on Left		
40 ft of 2		8.6	144.0	
65 ft		0.8	151.8	
		139+75		
✓ 67 ft		+2.9	155.5	
12 ft		2.8	149.8	
40 ft		2.6	150.0	
25 ft		8.2	144.4	
		439+90		
25 ft of 2		5.2	147.4	
30 ft		3.9	148.7	
45 ft		4.6	148.0	
62 ft		4.6	148.0	
73 ft		+6.7	159.3	
		440+0		
✓ 97 ft		+4.8	157.4	ox
68 ft ✓		5.2	147.4	
50 ft ✓		5.2	147.4	
25 ft ✓		5.2	147.4	
		440+10		
25 ft		6.2	146.4	
50 ft		6.1	146.5	
68 ft		6.0	146.6	
77 ft		+0.7	153.3	

152.57

440+25

✓ 78 ft of 2	1.2	151.4
71 ft	5.9	146.7
65 ft	6.5	146.1
50 ft	7.0	145.6
25 ft	7.4	145.2
		440+50 = End of Cut on Left
✓ 25 ft of 2	9.1	143.5
50 ft	8.0	144.6
65 ft	7.7	144.9

Dec 29 30
Sisson
Northway
Pearce

73

December Estimates
of Culverts

Culvert 425+50
125.75 ft of 24" Pipe
Bottom For Inlet Laid.

Culvert 430+50
355.75 ft of 30" Pipe
16.25 Cu Yds Concrete For Cradle

Culvert 432+75
201.33 ft of 18" Pipe
4.5 Cu Yds Concrete For Cradle

Culvert 437+12
102.8 ft of 18" Pipe

Culvert 439+15
191.7 ft of 24" Pipe
17.5 Cu Yds of Concrete For Cradle

Culvert 443+40
90.5 ft of 30" Pipe
3 Inlets Complete

Dec 29-30/14

Culvert 451+50
150.7 ft of 24" Pipe
2 Inlets Complete

Culvert 460+0
81.0 ft of 18" Pipe
2 Inlets Complete

All Clearing Complete

December Estimate

Dec. 29-30

75

Cut 433+ to 437 90% Complete

Cut 432+ to 438 90% Complete

Cut 444+ to 459 90% Complete

D-Line Additional Outs of Page

407 to 410

Originals 1400 pages

353.147

407+25

65' Pt	8.0	345.1
70' Pt	9.7	343.4

407+50

75' Pt	26	350.5
101' Pt	11.6	341.5

407+75

80' Pt	58	347.3
100' Pt	18.1	341.0

408+0

75' Pt	5.5	347.6
100' Pt	11.3	341.8
115' Pt	15.6	337.5

408+25

58' Pt	2.6	350.5
60' Pt	6.7	346.4
100' Pt	10.4	342.7
120' Pt	17.2	335.9

408+50

60' Pt	58	347.3
70' Pt	10.5	342.6
100' Pt	12.7	340.4
135' Pt	20.0	333.1

TP 546 347.56 11.04 342.10

TP 412 339.56 12.12 335.44

Reduced & Plotted Jan. 22-1930
Devial

339.56

Jan. 5-9/

76

408+75

65' Pt	0.6	339.0
68' Pt	2.2	337.4
100' Pt	3.6	336.0
140' Pt	4.8	334.8
165' Pt	6.5	333.1

409+0

100' Pt	4.5	335.1
150' Pt	5.7	333.9
182' Pt	7.9	331.7

409+25

100' Pt	6.1	333.5
150' Pt	10.0	329.6

409+50

80' Pt	5.5	334.1
108' Pt	10.1	329.5

409+75

70' Pt	8.6	331.0
80' Pt	11.9	327.7

410+0

66' Pt	12.6	327.0
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Willow St. Water Grade
Loyell St to Oliphant

indexed
c.s.k.

Nov. 6-31
Moore
Sisson
Hartford

BM	10.87	63.13	52.26	54.87	Willow/Loyell	63-13	Ground	Flux
N.L. Loyell		48.25	$\begin{matrix} 169 \\ 189 \\ +4.2 \end{matrix}$					
50 ft		50.25	$\begin{matrix} 128 \\ 28 \\ +3.9 \end{matrix}$					
100 ft		52.25	$\begin{matrix} 108 \\ 29 \\ +4.0 \end{matrix}$					
150 ft		54.25	$\begin{matrix} 88 \\ 29 \\ +4.0 \end{matrix}$					
200 ft = St. Macaulay		56.25	$\begin{matrix} 69 \\ 29 \\ +4.1 \end{matrix}$	56.25				
235 ft		55.25	$\begin{matrix} 79 \\ 29 \\ +4.0 \end{matrix}$					
270 ft = H.L. Macaulay		54.25	$\begin{matrix} 83 \\ 29 \\ +4.6 \end{matrix}$				4.2	58.9
280 ft		54.00	58.00	54.00				+4.0
200 ft		9.0	54.1	46.60			9.8	53.3
315 ft							13.1	50.0
TP	0.58	51.23	12.18	50.65		51.22		
330 ft			11.4	39.8	35.50		12.5	38.7
TP	5.07	14.14	12.16	39.07		44.14		
360			5.9	38.2	34.60		5.9	38.2
380				38.3	34.00		6.2	37.9
385								
390			6.9	37.6	27.00		7.9	36.2
395							10.2	33.8
397							14.7	29.4
400							15.2	28.9

	44.11	Stake	Elev.	Grade		44.11	Ground	Elev.
410H			298	27.00	+28		14.2	299
120H		9.1	347	29.61	+51		9.2	34.9
160H		1.4	427	40.05	+2.7		0.5	43.6
TP	12.55	55.86	0.83	43.31		55.86		
500H		1.9	54.0	50.50	+3.5		1.3	54.6
TP	12.09	67.81	0.14	55.72		67.81		
540H = N.L. Howell		2.6	65.2	61.00	+4.2		1.6	66.2
TP	12.45	79.53	0.73	67.08		79.53		
580H		1.4	78.4	74.66	+3.7		0.2	79.2
TP	12.62	91.63	0.52	79.01		91.63		
TP	12.11	103.52	0.22	91.41		103.52		
620H		8.6	94.9	88.33	+6.6		8.6	94.9
TP	11.94	115.41	0.05	103.47		115.41		
660H		9.5	105.9	102.00	+3.9		8.7	106.7
TP	12.97	127.96	0.48	111.99		127.96		
700H		7.0	121.0	116.00	+5.0		6.6	121.4
TP	12.16	140.38	0.04	127.92		140.38		
TP	11.86	152.02	0.22	140.16		152.02		
740H = S.L. Cliphart		8.8	143.2	132.20	+11.0		10.2	141.8
750H							1.5	150.5
770H = Cross Curb		0.8	151.2	144.40	+6.8		0.80	151.22
Passing							1.63	150.39
BY. N.Y. Rd. S.L. Cliphart		+0.60	152.62	152.81				

DIRECTIONS FOR USE OF TABLES

TABLE No. 1.

Distance of slope stake from side or shoulder
stake for any width roadway, slope 1 x 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

IMPROVED TABLES
AND
INFORMATION

necessity.

TABLE No. 2.

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 L may be found
by dividing tangent (or external), opposite L 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.

1200 - 32.5
465750 = 7' At Slope

1348
676
682

0700 Cliff Rout C.T. Parmit 18002 S. of RL

BM #1 Cliff Rout
2" I.P. B.P. 58' At. Sta 1+78 383.36
on RL.

716.30
48570.1
48656.3

72.3
48584
656