

Cross-Section EXT.3 (Copied from
9/13/54 Beatty & party) FB 873 pg 6-7

0+00 758.3 757.8 757.4 752.6 751.1 753.2 754.5 757.3
50 43 41 39 39 23 19 18

0+15 746.5 747.5 750.8 750.8 758.0
50 33 32 28 14

0+47 739.5 740.0 750.4 751.5 751.5 756.3
50 46 38 34 33 30

0+65 738.0 746.0 741.0
50 40 15

1+00 727.3 730.1
50 25

1+30 721.3 721.5 722.9 720.0 720.0 722.0 724.0 725.3
50 25 25 29 38 44 47 50

1+40 719.2 714.3 716.0 718.0 720.0 722.0 724.0 724.6
25 31 31 39 40 42 47 50

1+55 710.9 712.0 714.0 716.0 718.0 720.0 722.0 723.0 724.4
20 21 25 27 29 33 40 46 50

708.0 710.0 712.0 714.0 716.0 718.0 720.0 722.0 724.0 726.0
4 8 10 16 21 26 34 39 44 50

712.0 714.0 716.0 718.0 720.0 722.0 724.0 726.0
8 13 18 23 28 35 42 50

9/13/54 Cross-Section EXT.3 Copied from
Beatty & party) FB 873 pg 8-

2+00 718.3 720.0 722.0 724.0 726.0 727.0
20 25 33 40 45 50

2+50 720.0 722.0 724.0 726.0 728.0 730.0 731.3
7 14 23 30 38 45 50

2+75 722.0 724.0 726.0 728.0 730.0 730.6
11 19 28 37 48 50

3+00 720.0 722.0 724.0 726.0 727.9
9 19 29 39 50

3+50 714.0 716.0 718.0 720.0 722.0 722.9
3 12 23 33 45 50

3+75 & profile 707.3 (additional)

3+90 703.2 705.0 706.0 708.0 710.0 712.0 713.2
20 6 17 31 43 50

3+93 & profile 701.0

4+00 702.0 704.0 706.0 708.0 709.0
15 26 43 50

4+25 711.6 714.0 716.0 718.0 720.0 722.0 724.2
7 20 27 36 45 50

4+39 & profile 714.6

4+50 722.0 724.0 726.0 728.0 730.0 731.5
9 21 29 35 40 50

Cross Section EXT.S.

9/13/52 Beatty & party

(Copied from
FB. 873 pg 9)

4+75 & profile 725.5

5+00 & $\begin{matrix} 734.0 & 736.0 & 738.0 & 740.0 & 742.0 & 744.0 & 746.0 & 747.4 \\ 3 & 13 & 20 & 26 & 35 & 41 & 46 & 50 \end{matrix}$

5+50 & $\begin{matrix} 744.0 & 746.0 & 748.0 & 750.0 & 752.0 & 754.0 & 756.0 & 758.0 \\ 7 & 14 & 21 & 27 & 32 & 38 & 42 & 50 \end{matrix}$

6+00 & $\begin{matrix} 750.0 & 752.0 & 754.0 & 756.0 & 758.0 & 760.0 & 762.0 & 764.0 & 765.6 \\ 5 & 10 & 17 & 24 & 30 & 35 & 40 & 47 & 50 \end{matrix}$

6+50 & $\begin{matrix} 752.0 & 754.0 & 756.0 & 758.0 & 760.0 & 762.0 & 764.0 & 766.0 & 768.0 & 770.0 & 772.0 \\ 6 & 4 & 10 & 15 & 18 & 22 & 27 & 32 & 38 & 41 & 45 & 49 \end{matrix}$

7+00 & $\begin{matrix} 756.0 & 758.0 & 760.0 & 762.0 & 764.0 & 766.0 & 768.0 & 770.0 & 772.0 & 774.0 & 776.0 \\ 4 & " & 15 & 19 & 22 & 26 & 32 & 36 & 41 & 45 & 50 \end{matrix}$

7+45³¹ & $\begin{matrix} 737.0 & 738.0 & 740.0 & 742.0 & 744.0 & 746.0 & 748.0 & 750.0 & 752.0 & 754.0 & 756.0 \\ 5 & 46 & 42 & 36 & 31 & 27 & 22 & 18 & 13 & 7 & 3 \end{matrix}$

7+45³¹ & $\begin{matrix} 760.0 & 762.0 & 764.0 & 766.0 & 768.0 & 770.0 & 772.0 & 774.0 & 776.0 & 778.0 \\ 7 & 13 & 18 & 22 & 26 & 30 & 36 & 41 & 45 & 50 \end{matrix}$

7+60 & & profile 757.7

7+80 & & profile 754.3

Cross SECTION EXT.S

9/13/54 Beatty & party

Copied from
FB 873 pg 10

8+00 $\begin{matrix} 730.0 & 732.0 & 734.0 & 736.0 & 738.0 & 740.0 & 742.0 & 744.0 & 746.0 & 748.0 & 750.0 \\ 50 & 44 & 39 & 36 & 30 & 25 & 20 & 14 & 11 & 6 & 2 \end{matrix}$

8+15 & & profile 747.9

8+22 " " 744.6

8+30 " " 745.0

8+50 $\begin{matrix} 719.8 & 722.0 & 724.0 & 726.0 & 728.0 & 730.0 & 732.0 & 734.0 & 736.0 & 738.0 & 740.0 \\ 50 & 44 & 39 & 34 & 29 & 23 & 19 & 15 & 11 & 8 & 3 \end{matrix}$

8+75 & & profile 737.3

9+00 $\begin{matrix} 716.0 & 718.0 & 720.0 & 722.0 & 724.0 & 726.0 & 728.0 & 730.0 & 732.0 & 734.0 \\ 50 & 46 & 40 & 35 & 30 & 25 & 19 & 15 & 10 & 4 \end{matrix}$

9+35 & & profile 734.1

9+50 $\begin{matrix} 710.5 & 712.0 & 714.0 & 716.0 & 718.0 & 720.0 & 722.0 & 724.0 & 726.0 & 728.0 & 730.0 \\ 75 & 72 & 67 & 62 & 58 & 53 & 46 & 36 & 26 & 19 & 7 \end{matrix}$

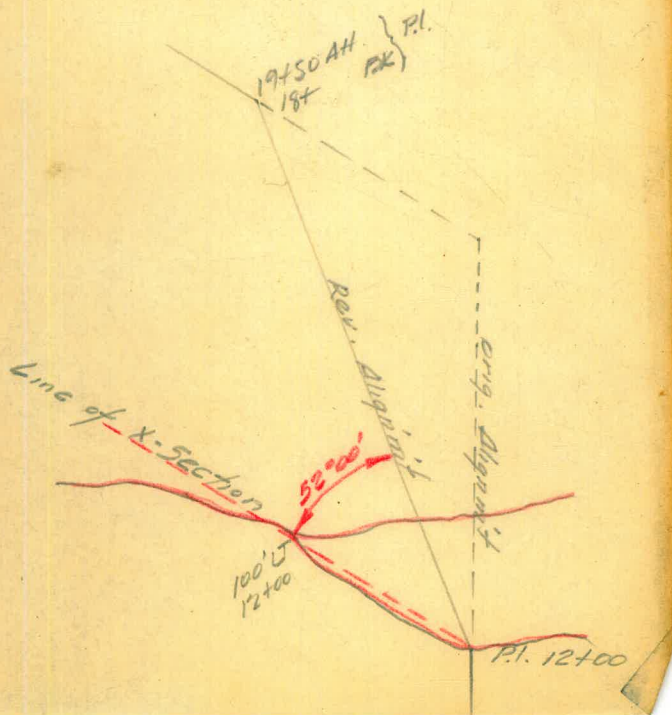
10+00

9/14/54
(Wert & party)

$\begin{matrix} 705.0 & 707.0 & 709.0 & 711.0 & 713.0 & 714.3 \\ 78 & 72 & 63 & 49 & 29 & 20 \end{matrix}$

9/16/54 Beatty & party

12+00 651.4 650.9 649.0 648.0 646.0 644.0 642.0 640.0 638.0 636.0
 2 3 6 12 15 31 39 50 61 73
 644.0 640
 630.7 622.0 622.6 624.5
 100 95 87 90
 Sect. of
 2-drains



Cross-Sections EXT.5

Copied from
 FB 873 pg. 11
 pg. 41-42

9/14/54 Wert & party

10+50 692.0 692.0 694.0 696.7 699.0
 82 45 33 20 13

11+00 674.0 672.0 671.0 676.0 678.0 680.0 681.8 684.0 686.0
 78 65 57 50 35 27 21 16 9

11+50 658.0 660.0 662.0 664.0 666.0 668.0
 75 62 50 43 24 12

12+00 646.0 648.0 648.0 650.0 651.4 654.0 656.0 658.0 660.0 662.0 664.0
 68 30 10 6 9 13 22 27 35 45

12+50 636.9 641.9 647.1 652.3 654.0
 50 25 25 50

12+94 profile 642.4

13+00 635.2 639.1 644.9 652.6 658.1
 50 25 25 50

13+08 profile 648.3

13+50 641.2 646.3 650.8 656.3 660.9
 50 25 25 50

14+00 637.3 642.4 646.9 647.9 647.3 657.5
 50 25 13 25 50

14+15 profile 640.9
 14+33 profile 642.5

Cross Sections

9/14/54 Wert & party

Copied from
F.B. 873 pg 42

14+50 626.9 628.6 631.2 635.5 640.2 646.3 650.7
50 33 25 13 ♀ 25 50

14+68 ♀ profile 647.5



9/15/48 WERT & party Copied from
F.B. 873 pg 42-43

14+50 626.9 628.6 631.2 635.5 640.2 646.3 650.7
50 33 25 13 ♀ 25 50

14+68 647.5 ♀ profile

15+00 642 644 646 648 649.3 652.0 654 656 658
50 34 19 10 ♀ 20 35 45 50

15+50 657 659 661 663 665 666 669 671 673 675 677 679
49 44 30 20 12 ♀ 11 18 25 33 40 46

16+00 668 670 672 674 676 678 680 681.5 684 686
54 44 36 30 22 13 7 ♀ 6 13

696 694 692 690
676 674 672 670 688
52 46 38 30 22

16+1926 Port ♀ profile 685.7

16+50 674 676 678 680 682 684 686 688 689.5
49 44 34 29 21 17 10 6 ♀

706 704 702 700 698 696 694 692
45 40 35 30 25 17 11 4

17+00 675 677 679 681 683 685 687 689 691 693 695 696.3
34 27 42 38 32 27 23 20 12 7 3 ♀

715 713 711 709 707 705 703 701 699
48 43 38 33 24 19 14 9 3

17+50
 679 681 683 685 687 689 891 693 695 697 68
 57 48 47 38 37 29 26 19 12 7 4
 715 713 711 709 707 705 703 701
 37 31 27 24 19 15 10 6
 717 717
 41 46

17+80 700.4
 \$

18+00 97.3
 678 680 682 684 86 88 90 92 94 96 9
 50 47 38 32 27 21 14 10 6 3 \$
 700 702 64 66 68 10 12 14 16 18 20
 5 10 15 20 24 26 31 35 41 47 52

17+25 689.6
 \$

18+35 11

18+55
 672 70 68 68 70 72 74 76 670.9
 677 67 67 67 67 71 75 78
 50 48 42 35 26 27 18 11 \$
 686 92 84 86 88 90 92 94 96 98 700
 2 5 8 11 13 16 19 22 26 28 32
 702 64 66 68
 35 40 42 50

76°
 18+67.5 Back 690.8
 = 19+50 Ahead 687 687 685 83 85 87 89 ↑
 50 41 39 36 32 30 13 \$
 19+2+13K Tangt. 93 95 97 99 701 03 65 07
 6 15 29 34 46 45 47 52

9/14/54
 +Beauty & party. **SAVE \$** **COPY IN - FB 873 P9 13**

20+00 - 709.6
 \$ 712° 714° 716° 718° 720° 722° 724° 726° 728°
 5 14 19 25 30 35 41 47 50

20+50 - 726.4
 \$ 728° 730° 732° 734° 736° 738° 740° 742° 744° 745.7
 3 10 15 20 25 30 35 41 46 50

21+00 - 738.9
 \$ 740° 742° 744° 746° 748° 750° 752° 754° 756° 758° 760°
 3 8 12 16 21 26 30 35 40 45 50

21+50 - 748.5
 \$ 750° 752° 754° 756° 758° 760° 762° 764° 766° 768° 770°
 3 8 12 18 23 28 33 39 44 49 50

22+00 - 754.4
 \$ 756° 758° 760° 762° 764° 766° 768° 770° 771.0
 5 11 16 23 28 35 40 47 50

22+38.80 - 753.3
 \$ (Split of 8) 756° 758° 760° 762° 764° 766° 768° 769.1
 7 14 20 27 34 40 48 50

22+50 - E profile 753.2
 \$ 754° 756° 758° 760° 762° 764° 766° 768°
 5 10 17 22 29 37 43 50

22+65 - 752.2
 \$ 754° 756° 758° 760° 762° 764° 766° 768°
 5 10 17 23 28 33 39 43 48 50

23+25 - 733.9
 \$ 736° 738° 740° 742° 744° 746° 748° 749.7
 6 13 19 26 30 38 47 50

23+50 - 722.5
 \$ 726° 728° 730° 732° 734° 736° 738° 739.2
 10 15 22 29 36 42 47 50

23+60 \$ profile 719.5

24+00 - 698.3
 \$ 700° 702° 704° 706° 708° 710° 712° 714° 716°
 6 11 15 20 24 30 35 40 50

Cross-SECTION EXT.3 9/15/50 Beatty & party

24+20 - 679.5 $\frac{686}{9}$ $\frac{697}{32}$ $\frac{698}{35}$ $\frac{700}{40}$ $\frac{702}{46}$ $\frac{703.4}{50}$ -----
 24+50 679.5 $\frac{682}{16}$ $\frac{683.5}{25}$ $\frac{688}{31}$ $\frac{690}{40}$ $\frac{691.2}{50}$ -----
 24+58 & profile 679.0
~~24~~
~~25+79~~ 684.7 $\frac{686}{3}$ $\frac{688}{9}$ $\frac{690}{16}$ $\frac{692}{22}$ $\frac{694}{27}$ $\frac{696}{34}$ $\frac{698}{39}$ $\frac{700}{46}$ $\frac{701.6}{50}$
 25+00 689.1 $\frac{690}{4}$ $\frac{692}{9}$ $\frac{694}{15}$ $\frac{696}{20}$ $\frac{698}{25}$ $\frac{700}{30}$ $\frac{702}{35}$ $\frac{704}{38}$ $\frac{706}{44}$ $\frac{708}{49}$ $\frac{708.4}{50}$
 25+50 705.1 $\frac{706.6}{5}$ $\frac{709.2}{8}$ $\frac{710}{12}$ $\frac{712}{21}$ $\frac{714}{30}$ $\frac{716}{36}$ $\frac{718}{39}$ $\frac{720}{43}$ $\frac{722}{47}$ $\frac{723.0}{50}$ -----
 26+00 731.2 $\frac{734}{7}$ $\frac{736}{13}$ $\frac{738}{20}$ $\frac{740}{29}$ $\frac{742}{36}$ $\frac{744}{43}$ $\frac{746}{48}$ $\frac{746.4}{50}$ -----
 26+50 747.3 $\frac{750}{7}$ $\frac{752}{15}$ $\frac{754}{22}$ $\frac{756}{29}$ $\frac{758}{34}$ $\frac{760}{42}$ $\frac{762}{49}$ $\frac{762.3}{50}$ -----
 27+00 753.2 $\frac{756}{10}$ $\frac{758}{17}$ $\frac{760}{24}$ $\frac{762}{32}$ $\frac{764}{40}$ $\frac{766}{48}$ $\frac{767.0}{50}$ -----
 27+1433 Split of 3 752.1 $\frac{754}{6}$ $\frac{756}{13}$ $\frac{758}{20}$ $\frac{760}{27}$ $\frac{762}{35}$ $\frac{764}{44}$ $\frac{765.4}{50}$ -----
 27+50 753.2 $\frac{756}{9}$ $\frac{758}{16}$ $\frac{760}{24}$ $\frac{762}{31}$ $\frac{764}{37}$ $\frac{766}{44}$ $\frac{768}{50}$ -----
 28+00 747.0 $\frac{750}{8}$ $\frac{752}{14}$ $\frac{754}{22}$ $\frac{756}{28}$ $\frac{758}{33}$ $\frac{760}{39}$ $\frac{762}{45}$ $\frac{763.4}{50}$ -----

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Cross-SECTION EXT.3 9/15/50 Beatty & party

28+50 736.0 $\frac{738}{4}$ $\frac{740}{10}$ $\frac{742}{14}$ $\frac{744}{20}$ $\frac{746}{26}$ $\frac{748}{32}$ $\frac{750}{37}$ $\frac{752}{42}$ $\frac{754}{47}$ $\frac{755.4}{50}$
 29+00 725.7 $\frac{728}{6}$ $\frac{730}{10}$ $\frac{732}{15}$ $\frac{734}{20}$ $\frac{736}{25}$ $\frac{738}{31}$ $\frac{740}{36}$ $\frac{742}{40}$ $\frac{744}{45}$ $\frac{745.0}{50}$
 29+13 721.7 $\frac{724}{7}$ $\frac{726}{11}$ $\frac{728}{15}$ $\frac{730}{19}$ $\frac{732}{22}$ $\frac{734}{26}$ $\frac{736}{30}$ $\frac{738}{35}$ $\frac{740}{40}$ $\frac{741.0}{45}$ $\frac{742.0}{50}$
 29+50 730.2 $\frac{732}{4}$ $\frac{734}{11}$ $\frac{736}{15}$ $\frac{738}{20}$ $\frac{740}{25}$ $\frac{742}{31}$ $\frac{744}{36}$ $\frac{746}{40}$ $\frac{748.0}{45}$ $\frac{749.0}{50}$
 30+00 742.5 $\frac{746}{10}$ $\frac{748}{16}$ $\frac{750}{22}$ $\frac{752}{27}$ $\frac{754}{32}$ $\frac{756}{39}$ $\frac{758}{43}$ $\frac{760}{48}$ $\frac{760.8}{50}$
 30+50 750.7 $\frac{752}{3}$ $\frac{754}{9}$ $\frac{756}{15}$ $\frac{758}{21}$ $\frac{760}{27}$ $\frac{762}{32}$ $\frac{764}{38}$ $\frac{766}{45}$ $\frac{767.8}{50}$
 31+00 753.9 $\frac{756}{5}$ $\frac{758}{12}$ $\frac{760}{18}$ $\frac{762}{24}$ $\frac{764}{30}$ $\frac{766}{36}$ $\frac{768}{42}$ $\frac{770}{48}$ $\frac{770.7}{50}$
 31+4273 Split of 3 751.0 $\frac{754}{10}$ $\frac{756}{15}$ $\frac{758}{22}$ $\frac{760}{28}$ $\frac{762}{31}$ $\frac{764}{38}$ $\frac{766}{43}$ $\frac{768}{49}$ $\frac{768.4}{50}$
 32+00 752.2 $\frac{754}{5}$ $\frac{756}{9}$ $\frac{758}{15}$ $\frac{760}{20}$ $\frac{762}{25}$ $\frac{764}{32}$ $\frac{766}{37}$ $\frac{768}{41}$ $\frac{770.0}{46}$ $\frac{770.6}{50}$
 32+50 752.5 $\frac{756}{11}$ $\frac{758}{16}$ $\frac{760}{22}$ $\frac{762}{28}$ $\frac{764}{30}$ $\frac{766}{41}$ $\frac{768.0}{50}$
 32+8309 Split of 3 750.6 $\frac{756}{11}$ $\frac{758}{17}$ $\frac{760}{24}$ $\frac{762}{31}$ $\frac{764}{38}$ $\frac{766}{46}$ $\frac{768.8}{50}$
 33+00 749.7 $\frac{752}{7}$ $\frac{754}{14}$ $\frac{756}{21}$ $\frac{758}{28}$ $\frac{760}{36}$ $\frac{762}{43}$ $\frac{763.4}{50}$

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Cross-Section EXT. 3.

9/15/54 Beatty & party

33+20 - & profile 747.5

33+40 - & profile 742.8

33+50 - $\frac{739.4}{2}$ $\frac{742}{10}$ $\frac{744}{18}$ $\frac{746}{30}$ $\frac{748}{42}$ $\frac{749.6}{50}$

33+80 - $\frac{730.8}{2}$ $\frac{732}{9}$ $\frac{734}{29}$ $\frac{735.8}{50}$

34+00 $\frac{722.3}{2}$ $\frac{724}{11}$ $\frac{726}{23}$ $\frac{728}{33}$ $\frac{730}{43}$ $\frac{731.2}{50}$

34+20 & profile 715.0

34+50 $\frac{700.1}{2}$ $\frac{702}{11}$ $\frac{704}{30}$ $\frac{706}{50}$

35+00 $\frac{677.8}{2}$ $\frac{680}{20}$ $\frac{682}{31}$ $\frac{684.0}{50}$

35+50 - $\frac{651.0}{2}$ $\frac{652}{7}$ $\frac{654}{16}$ $\frac{656}{27}$ $\frac{658}{35}$ $\frac{659.4}{50}$

35+54 & profile 648.2

35+58 & profile 650.5

35+61 & profile 653.1

35+70 - $\frac{663.8}{2}$ $\frac{657.3}{10}$ $\frac{660}{20}$ $\frac{662}{30}$ $\frac{664}{40}$ $\frac{666}{50}$ $\frac{668}{60}$ $\frac{669.8}{70}$

35+85 - & profile $\frac{663.8}{2}$ $\frac{666}{6}$ $\frac{670}{13}$ $\frac{674}{22}$ $\frac{678}{33}$ $\frac{682}{45}$ $\frac{685.2}{50}$

36+00 $\frac{669.8}{2}$ $\frac{672}{6}$ $\frac{674}{14}$ $\frac{676}{20}$ $\frac{678}{26}$ $\frac{680}{32}$ $\frac{682}{44}$ $\frac{683.2}{50}$

36+50 $\frac{687.1}{2}$ $\frac{690}{13}$ $\frac{692}{21}$ $\frac{694}{26}$ $\frac{696}{32}$ $\frac{698}{39}$ $\frac{699}{50}$

37+00 $\frac{705.2}{2}$ $\frac{708}{10}$ $\frac{710}{18}$ $\frac{712}{28}$ $\frac{714}{37}$ $\frac{716}{46}$ $\frac{717.2}{50}$

37+50 $\frac{722.1}{2}$ $\frac{724}{7}$ $\frac{726}{15}$ $\frac{728}{23}$ $\frac{730}{36}$ $\frac{732.3}{50}$

38+00

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9/16/54 Cross-Section EXT. 5 Copied from WERT. & party FB. 873 pg. 45

37+50 $\frac{722.1}{2}$ $\frac{724}{10}$ $\frac{726}{18}$ $\frac{728}{25}$ $\frac{730}{34}$ $\frac{732}{46}$ $\frac{734}{53}$ $\frac{736}{62}$ $\frac{738}{72}$ $\frac{740}{82}$

38+00 $\frac{736.6}{2}$ $\frac{741}{12}$ $\frac{744}{23}$ $\frac{746}{34}$ $\frac{748}{45}$ $\frac{749}{52}$ $\frac{751}{64}$ $\frac{752}{72}$ $\frac{752}{82}$

38+50 $\frac{746.6}{2}$ $\frac{749}{11}$ $\frac{751}{20}$ $\frac{753}{29}$ $\frac{755}{35}$ $\frac{757}{43}$ $\frac{759}{50}$ $\frac{761}{58}$ $\frac{763}{68}$ $\frac{765}{76}$

39+00 $\frac{750.5}{2}$ $\frac{753}{9}$ $\frac{755}{20}$ $\frac{757}{27}$ $\frac{759}{34}$ $\frac{761}{44}$ $\frac{763}{51}$ $\frac{765}{59}$ $\frac{767}{67}$ $\frac{769}{75}$

39+55⁸⁴ $\frac{748.9}{2}$ $\frac{751}{7}$ $\frac{753}{14}$ $\frac{755}{24}$ $\frac{757}{29}$ $\frac{759}{38}$ $\frac{761}{45}$ $\frac{763}{57}$ $\frac{765}{64}$ $\frac{767}{73}$
(BACK LEG)

40+00 $\frac{749.3}{2}$ $\frac{752}{7}$ $\frac{754}{14}$ $\frac{756}{23}$ $\frac{758}{32}$ $\frac{760}{38}$ $\frac{762}{45}$ $\frac{764}{51}$ $\frac{766}{59}$ $\frac{768}{67}$ $\frac{770}{76}$

40+50 $\frac{746.6}{2}$ $\frac{749}{8}$ $\frac{751}{15}$ $\frac{752}{21}$ $\frac{754}{28}$ $\frac{756}{37}$ $\frac{758}{44}$ $\frac{760}{48}$ $\frac{762}{64}$ $\frac{764}{73}$ $\frac{766}{78}$

41+00 $\frac{742.2}{2}$ $\frac{745}{9}$ $\frac{747}{18}$ $\frac{749}{27}$ $\frac{751}{31}$ $\frac{753}{37}$ $\frac{755}{43}$ $\frac{757}{49}$ $\frac{759}{57}$ $\frac{761}{63}$ $\frac{763}{70}$
 $\frac{785}{123}$ $\frac{783}{145}$ $\frac{781}{135}$ $\frac{779}{127}$ $\frac{777}{124}$ $\frac{775}{112}$ $\frac{773}{105}$ $\frac{771}{99}$ $\frac{769}{90}$ $\frac{767}{83}$ $\frac{765}{76}$

9/16/54 WERT
party

Copied from
FB 873 pg 46-49

41+50 734.8 737 739 741 743 745 747 749 751 753 755
E 6 11 17 26 35 42 46 51 57 66
715 713 711 709 707 705 703 701 759 757
149 140 132 125 117 108 102 90 84 73

42+00 726.3 729 731 733 735 737 739 741 743 745 747 749
E 11 12 23 28 32 40 45 52 59 65 72
709 707 705 703 701 759 757 755 753 751
151 142 134 127 118 112 105 98 81 79

42+50 716.0 718 720 722 724 726 728 730 732 734
E 8 15 25 34 40 47 52 62 68
752 750 748 746 744 742 740 738 736
152 143 135 119 109 104 97 87 77

43+00 704.9 707 709 711 713 715 717 719 721
E 16 24 30 38 47 56 67 78
735 733 731 729 727 725 723
165 146 135 126 112 103 90

43+50 692.2 694 696 698 700 702 704 706 708
E 8 18 29 37 48 56 68 80
725 720 718 716 714 712 710
159 145 130 115 106 99 88

6/15/54 WERT party CROSS-SECTION EXTS

44+00 679.3 680 684 688 692 696 700 704 707.7
E 4 25 49 79 100 134 174 200
(E turned with)

44+50 665.1 666 670 674 678 682 686 690
E 6 22 42 77 133 162 200

45+00 653.0 656 660 664 668 672 676 680
E 29 63 100 136 178 200

45+50 641.9 646 650 654 658
E 63 108 150 200

46+00 626.3 626 628 630 632 634 636 638
E 5 11 20 34 45 71 111 150 200
Bottom of wash

46+50 620.3 621 626 628 630 632 634 636 638 640 642
E 15 35 45 63 88 100 108 124 135 200

GENTLE
SLOPE
&
UNIFORM
Contour
Taken.

9/16/54 Beach & party Cross-section EXT.5

46+55 616.9
£

46+90 622.1
£ $\frac{624}{12}$ $\frac{626}{25}$ $\frac{629}{29}$ $\frac{630}{37}$ $\frac{632}{57}$ $\frac{634}{82}$ $\frac{636}{134}$ $\frac{638}{157}$ $\frac{640}{170}$ $\frac{642}{189}$ $\frac{644}{200}$

47+00 622.9
£ $\frac{625}{200}$ $\frac{627}{192}$ $\frac{629}{187}$

47+12 623.0
£ $\frac{624}{12}$ $\frac{626}{28}$ $\frac{628}{43}$ $\frac{630}{59}$ $\frac{632}{83}$ $\frac{634}{114}$ $\frac{636}{123}$ $\frac{638}{127}$ $\frac{640}{138}$ $\frac{642}{147}$ $\frac{644}{158}$ $\frac{646}{162}$ $\frac{648}{179}$

47+20 617.5
£

47+25 618.6
£ $\frac{620}{13}$ $\frac{622}{25}$ $\frac{624}{41}$ $\frac{626}{60}$ $\frac{628}{85}$ $\frac{630}{108}$ $\frac{632}{124}$ $\frac{634}{143}$ $\frac{636}{161}$ $\frac{638}{168}$ $\frac{640}{182}$ $\frac{642}{190}$ $\frac{644}{198}$ $\frac{646}{200}$

47+46 623.2
£ $\frac{626}{10}$ $\frac{628}{12}$ $\frac{630}{22}$ $\frac{632}{33}$ $\frac{634}{49}$ $\frac{636}{62}$ $\frac{638}{73}$ $\frac{640}{88}$ $\frac{642}{127}$ $\frac{644}{150}$ $\frac{646}{174}$ $\frac{648}{186}$ $\frac{650}{200}$

47+50 618.7

47+65 618.6
£ $\frac{620}{22}$ $\frac{622}{41}$ $\frac{624}{60}$ $\frac{626}{79}$ $\frac{628}{97}$ $\frac{630}{126}$ $\frac{632}{137}$ $\frac{634}{154}$ $\frac{636}{168}$ $\frac{638}{178}$ $\frac{640}{193}$ $\frac{642}{200}$

48+00 629.9
£ $\frac{628}{14}$ $\frac{630}{32}$ $\frac{632}{36}$ $\frac{634}{43}$ $\frac{636}{56}$ $\frac{638}{65}$ $\frac{640}{117}$ $\frac{642}{139}$ $\frac{644}{160}$ $\frac{646}{175}$ $\frac{648}{188}$ $\frac{650}{200}$

9/16/54 Cross-sections EXT.5

48+50 639.3
(WERT) £ $\frac{638}{48}$ $\frac{639}{90}$ $\frac{640}{115}$ $\frac{641}{133}$ $\frac{642}{160}$ $\frac{643}{179}$ $\frac{644}{185}$ $\frac{645}{200}$

49+00 643.4
(Beatty) £ $\frac{643}{12}$ $\frac{644}{49}$ $\frac{645}{61}$ $\frac{646}{113}$ $\frac{647}{133}$ $\frac{648}{145}$ $\frac{649}{156}$ $\frac{650}{171}$ $\frac{651}{180}$ $\frac{652}{189}$ $\frac{653}{200}$

49+50 651.3
(Beatty) £ $\frac{651}{17}$ $\frac{652}{22}$ $\frac{653}{50}$ $\frac{654}{67}$ $\frac{655}{93}$ $\frac{656}{114}$ $\frac{657}{130}$ $\frac{658}{168}$ $\frac{659}{200}$

50+00 659.7
(WERT) £ $\frac{658}{6}$ $\frac{659}{10}$ $\frac{660}{16}$ $\frac{661}{19}$ $\frac{662}{37}$ $\frac{663}{44}$ $\frac{664}{84}$ $\frac{665}{111}$ $\frac{666}{174}$ $\frac{667}{200}$

50+50 667.1
(Beatty) £ $\frac{666}{7}$ $\frac{667}{22}$ $\frac{668}{33}$ $\frac{669}{50}$ $\frac{670}{66}$ $\frac{671}{78}$ $\frac{672}{119}$ $\frac{673}{141}$ $\frac{674}{150}$ $\frac{675}{168}$ $\frac{676}{178}$ $\frac{677}{200}$

51+00 657.4
(WERT) £ $\frac{674}{12}$ $\frac{675}{27}$ $\frac{676}{50}$ $\frac{677}{69}$ $\frac{678}{93}$ $\frac{679}{124}$ $\frac{680}{130}$ $\frac{681}{139}$ $\frac{682}{151}$

$\frac{688}{200}$ $\frac{686}{179}$

9/17/54 Wert & party

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pg. 49

54+100
(Left) $\frac{770}{115}$ $\frac{768}{80}$ $\frac{764}{72}$ $\frac{764}{62}$ $\frac{764}{48}$ $\frac{760}{36}$ $\frac{758}{27}$ $\frac{754}{18}$ $\frac{7516}{\Sigma}$

54+100
(Right) $\frac{7516}{\Sigma}$ $\frac{750}{10}$ $\frac{748}{33}$ $\frac{748}{40}$ $\frac{750}{53}$ $\frac{752}{62}$ $\frac{754}{69}$ $\frac{756}{77}$ $\frac{758}{86}$ $\frac{760}{96}$

54+50 $\frac{769}{104}$ $\frac{767.5}{80}$ $\frac{765}{65}$ $\frac{763}{46}$ $\frac{761}{\Sigma}$ $\frac{760.0}{17}$ $\frac{762}{60}$ $\frac{765}{96}$ $\frac{767}{110}$

55+100 $\frac{762}{107}$ $\frac{760}{93}$ $\frac{759}{80}$ $\frac{760}{54}$ $\frac{762}{9}$ $\frac{764}{\Sigma}$ $\frac{760}{9}$ $\frac{768}{28}$ $\frac{770}{44}$ $\frac{774}{49}$ $\frac{774}{56}$ $\frac{776}{65}$ $\frac{778}{81}$ $\frac{782}{85}$ $\frac{782}{100}$

55+50 $\frac{760}{105}$ $\frac{758}{90}$ $\frac{756}{80}$ $\frac{756}{60}$ $\frac{758}{39}$ $\frac{760}{22}$ $\frac{762}{12}$ $\frac{764}{5}$ $\frac{7648}{\Sigma}$ Left/Right only

55+88.3
Juliet & X $\frac{760}{104}$ $\frac{758}{94}$ $\frac{756}{87}$ $\frac{755.5}{66}$ $\frac{756}{58}$ $\frac{758}{37}$ $\frac{760}{23}$ $\frac{762.2}{\Sigma}$ "

56+50 $\frac{756}{100}$ $\frac{754}{88}$ $\frac{752}{81}$ $\frac{750}{53}$ $\frac{748}{40}$ $\frac{746}{23}$ $\frac{744}{6}$ $\frac{742.0}{\Sigma}$ "

57+100 $\frac{748}{105}$ $\frac{746}{90}$ $\frac{744}{70}$ $\frac{742}{60}$ $\frac{740}{50}$ $\frac{738}{38}$ $\frac{736}{30}$ $\frac{734}{18}$ $\frac{732}{10}$ $\frac{730}{\Sigma}$

57+50 $\frac{746}{95}$ $\frac{744}{88}$ $\frac{744}{79}$ $\frac{742}{67}$ $\frac{740}{58}$ $\frac{738}{52}$ $\frac{736}{45}$ $\frac{734}{38}$ $\frac{732}{30}$ $\frac{730}{24}$ $\frac{728}{11}$ $\frac{726}{8}$ $\frac{724}{\Sigma}$

9/17/54 Beatty & party

51+50 $\frac{680.6}{\Sigma}$ $\frac{679}{9}$ $\frac{678}{13}$ $\frac{679}{23}$ $\frac{678}{50}$ $\frac{680}{85}$ $\frac{682}{111}$ $\frac{684}{129}$ $\frac{686}{138}$ $\frac{688}{148}$ $\frac{690}{166}$ $\frac{692}{180}$
 $\frac{695}{200}$ $\frac{694}{190}$

52+100 $\frac{692.0}{\Sigma}$ $\frac{690}{13}$ $\frac{691}{20}$ $\frac{692}{24}$ $\frac{694}{30}$ $\frac{696}{50}$ $\frac{696}{72}$ $\frac{694}{86}$ $\frac{692}{75}$ $\frac{692}{116}$ $\frac{694}{126}$ $\frac{696}{149}$ $\frac{698}{162}$
 $\frac{702.7}{200}$ $\frac{702}{186}$ $\frac{700}{178}$

52+50 $\frac{705.7}{\Sigma}$ $\frac{708}{16}$ $\frac{710}{39}$ $\frac{710}{89}$ $\frac{710}{100}$ $\frac{710}{116}$ $\frac{712}{130}$ $\frac{714}{142}$ $\frac{716}{150}$ $\frac{718}{180}$ $\frac{719.7}{200}$

53+100 $\frac{722.0}{\Sigma}$ $\frac{724}{9}$ $\frac{726}{20}$ $\frac{728}{28}$ $\frac{730}{87}$ $\frac{732}{112}$ $\frac{731.5}{125}$ $\frac{732}{133}$ $\frac{734}{122}$ $\frac{736}{127}$ $\frac{738}{157}$ $\frac{740}{166}$
 $\frac{739.5}{200}$ $\frac{740}{197}$ $\frac{741}{184}$

53+50 $\frac{738.3}{\Sigma}$ $\frac{741}{11}$ $\frac{747}{18}$ $\frac{748}{31}$ $\frac{740}{29}$ $\frac{742}{48}$ $\frac{744}{60}$ $\frac{746}{67}$ $\frac{748}{79}$ $\frac{750}{80}$ $\frac{752}{94}$ $\frac{751}{103}$
 $\frac{746}{200}$ $\frac{746}{182}$ $\frac{746}{166}$ $\frac{748}{129}$ $\frac{750}{120}$

RIGHT

53+75 - $\frac{746.3}{\Sigma}$ $\frac{744}{6}$ $\frac{742}{15}$ $\frac{742}{31}$ $\frac{744}{42}$ $\frac{746}{49}$ $\frac{748}{58}$ $\frac{750}{67}$ $\frac{752}{76}$ $\frac{754}{82}$

+75 - LEFT
BASE of E LDER $\frac{756}{78}$ $\frac{756}{70}$ $\frac{755}{50}$ $\frac{754}{37}$ $\frac{754}{28}$ $\frac{750}{39}$ $\frac{748}{10}$ $\frac{746.3}{\Sigma}$ $\frac{756}{101}$

9/17/50 WEST & party

Copied from FB 873

Left Side only

58+00 $\frac{138}{90} \frac{136}{89} \frac{134}{88} \frac{132}{87} \frac{130}{78} \frac{128}{71} \frac{126}{62} \frac{124}{59} \frac{122}{55} \frac{120}{49} \frac{118}{31} \frac{116}{21} \frac{115.8}{16} \text{ E}$

58+50 $\frac{138}{101} \frac{136}{96} \frac{134}{88} \frac{132}{80} \frac{130}{68} \frac{128}{64} \frac{126}{58} \frac{124}{45} \frac{122}{40} \frac{120}{30} \frac{118}{22} \frac{116}{14} \text{ E}$

59+00 $\frac{120}{100} \frac{118}{87} \frac{116}{70} \frac{114}{66} \frac{112}{61} \frac{110}{55} \frac{108}{50} \frac{106}{47} \frac{104}{42} \frac{102}{33} \frac{100}{28} \frac{98}{24} \frac{96}{18} \frac{94}{9} \text{ E}$

15' VERT WALL

59+31.86 PI (Split of 4) $\frac{106}{45} \frac{104}{35} \frac{102}{16} \frac{100}{10} \frac{99.16}{\text{E}}$

60+00 $\frac{10' \text{ VERT ROCKS}}{694} \frac{690}{50} \frac{688}{44} \frac{686}{38} \frac{684}{33} \frac{682}{28} \frac{678}{22} \frac{674}{13} \frac{669.8}{5} \text{ E}$

60+50 $\frac{666}{49} \frac{664}{43} \frac{662}{40} \frac{660}{37} \frac{658}{30} \frac{656}{22} \frac{654}{19} \frac{652}{15} \frac{650}{12} \frac{648}{3} \frac{647.5}{\text{E}}$
 $\frac{668}{52} \frac{670}{55} \frac{672}{65} \frac{674}{74} \frac{676}{83} \frac{678}{90} \frac{680}{100} \text{ E}$

6/17/50 Beatty & party

LEFT SIDE ONLY (R=Rock)

61+00 $\frac{648}{50} \frac{646}{28} \frac{642}{37} \frac{634}{29} \frac{630}{27} \frac{628}{20} \frac{624}{17} \frac{622.1}{8} \text{ E}$

+50 $\frac{650}{59} \frac{652}{62} \frac{654}{63} \frac{656}{74} \frac{658}{78} \frac{660}{81} \frac{664}{86} \frac{666}{93} \frac{668}{98} \frac{669}{100} \frac{666.0}{\text{E}}$

2+00 $\frac{634}{84} \frac{636}{90} \frac{638}{94} \frac{640}{101} \frac{624}{79} \frac{622}{60} \frac{620}{46} \frac{618}{41} \frac{616}{36} \frac{614}{31} \frac{612}{27} \frac{610}{23} \frac{608}{19} \frac{606}{15} \frac{604}{12} \frac{602}{9} \frac{600}{5} \text{ E}$

+40 $\frac{608}{80} \frac{606}{76} \frac{604}{70} \frac{602}{66} \frac{600}{63} \frac{598}{59} \frac{596}{54} \frac{594}{50} \frac{592}{47} \frac{590}{37} \frac{588}{32} \frac{586}{18} \frac{584}{10} \frac{582}{6} \frac{580}{3} \frac{578}{\text{E}}$

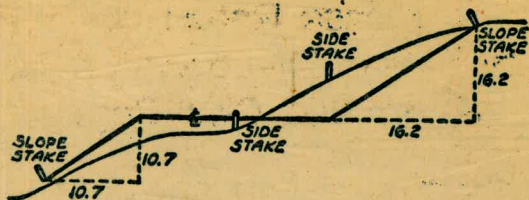
+75 $\frac{604}{91} \frac{602}{85} \frac{600}{80} \frac{598}{71} \frac{596}{66} \frac{594}{61} \frac{592}{57} \frac{590}{53} \frac{588}{44} \frac{586}{38} \frac{584}{32} \frac{582}{28} \frac{580}{24} \frac{578}{17} \frac{576}{8} \frac{574.7}{\text{E}}$

4+00 $\frac{596}{103} \frac{594}{75} \frac{592}{89} \frac{590}{85} \frac{588}{80} \frac{586}{77} \frac{584}{74} \frac{582}{69} \frac{580}{62} \frac{578}{54} \frac{576}{42} \frac{574}{33} \frac{572}{24} \frac{570}{17} \frac{568}{9} \frac{566}{3} \frac{564}{\text{E}}$

5+00 $\frac{578}{101} \frac{576}{96} \frac{574}{90} \frac{572}{83} \frac{570}{74} \frac{568}{65} \frac{566}{58} \frac{564}{52} \frac{562}{47} \frac{560}{41} \frac{558}{37} \frac{556}{29} \frac{554}{25} \frac{552}{15} \frac{550}{11} \frac{548}{7} \frac{543.7}{\text{E}}$

6+00 $\frac{568}{100} \frac{566}{74} \frac{564}{86} \frac{562}{77} \frac{560}{68} \frac{558}{60} \frac{556}{52} \frac{554}{47} \frac{552}{41} \frac{550}{37} \frac{548}{33} \frac{546}{29} \frac{544}{25} \frac{542}{15} \frac{540}{11} \frac{538}{7} \frac{525.9}{\text{E}}$

+88 E profile $\frac{562.8}{\text{E}}$



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING
SLOPE 1 TO 1. ROADWAY OF ANY WIDTH

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.00	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0
1	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	1
2	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	2
3	3.00	3.10	3.20	3.30	3.40	3.50	3.60	3.70	3.80	3.90	3
4	4.00	4.10	4.20	4.30	4.40	4.50	4.60	4.70	4.80	4.90	4
5	5.00	5.10	5.20	5.30	5.40	5.50	5.60	5.70	5.80	5.90	5
6	6.00	6.10	6.20	6.30	6.40	6.50	6.60	6.70	6.80	6.90	6
7	7.00	7.10	7.20	7.30	7.40	7.50	7.60	7.70	7.80	7.90	7
8	8.00	8.10	8.20	8.30	8.40	8.50	8.60	8.70	8.80	8.90	8
9	9.00	9.10	9.20	9.30	9.40	9.50	9.60	9.70	9.80	9.90	9
10	10.00	10.10	10.20	10.30	10.40	10.50	10.60	10.70	10.80	10.90	10
11	11.00	11.10	11.20	11.30	11.40	11.50	11.60	11.70	11.80	11.90	11
12	12.00	12.10	12.20	12.30	12.40	12.50	12.60	12.70	12.80	12.90	12
13	13.00	13.10	13.20	13.30	13.40	13.50	13.60	13.70	13.80	13.90	13
14	14.00	14.10	14.20	14.30	14.40	14.50	14.60	14.70	14.80	14.90	14
15	15.00	15.10	15.20	15.30	15.40	15.50	15.60	15.70	15.80	15.90	15
16	16.00	16.10	16.20	16.30	16.40	16.50	16.60	16.70	16.80	16.90	16
17	17.00	17.10	17.20	17.30	17.40	17.50	17.60	17.70	17.80	17.90	17
18	18.00	18.10	18.20	18.30	18.40	18.50	18.60	18.70	18.80	18.90	18
19	19.00	19.10	19.20	19.30	19.40	19.50	19.60	19.70	19.80	19.90	19
20	20.00	20.10	20.20	20.30	20.40	20.50	20.60	20.70	20.80	20.90	20
21	21.00	21.10	21.20	21.30	21.40	21.50	21.60	21.70	21.80	21.90	21
22	22.00	22.10	22.20	22.30	22.40	22.50	22.60	22.70	22.80	22.90	22
23	23.00	23.10	23.20	23.30	23.40	23.50	23.60	23.70	23.80	23.90	23
24	24.00	24.10	24.20	24.30	24.40	24.50	24.60	24.70	24.80	24.90	24
25	25.00	25.10	25.20	25.30	25.40	25.50	25.60	25.70	25.80	25.90	25
26	26.00	26.10	26.20	26.30	26.40	26.50	26.60	26.70	26.80	26.90	26
27	27.00	27.10	27.20	27.30	27.40	27.50	27.60	27.70	27.80	27.90	27
28	28.00	28.10	28.20	28.30	28.40	28.50	28.60	28.70	28.80	28.90	28
29	29.00	29.10	29.20	29.30	29.40	29.50	29.60	29.70	29.80	29.90	29
30	30.00	30.10	30.20	30.30	30.40	30.50	30.60	30.70	30.80	30.90	30
31	31.00	31.10	31.20	31.30	31.40	31.50	31.60	31.70	31.80	31.90	31
32	32.00	32.10	32.20	32.30	32.40	32.50	32.60	32.70	32.80	32.90	32
33	33.00	33.10	33.20	33.30	33.40	33.50	33.60	33.70	33.80	33.90	33
34	34.00	34.10	34.20	34.30	34.40	34.50	34.60	34.70	34.80	34.90	34
35	35.00	35.10	35.20	35.30	35.40	35.50	35.60	35.70	35.80	35.90	35
36	36.00	36.10	36.20	36.30	36.40	36.50	36.60	36.70	36.80	36.90	36
37	37.00	37.10	37.20	37.30	37.40	37.50	37.60	37.70	37.80	37.90	37
38	38.00	38.10	38.20	38.30	38.40	38.50	38.60	38.70	38.80	38.90	38
39	39.00	39.10	39.20	39.30	39.40	39.50	39.60	39.70	39.80	39.90	39
40	40.00	40.10	40.20	40.30	40.40	40.50	40.60	40.70	40.80	40.90	40
41	41.00	41.10	41.20	41.30	41.40	41.50	41.60	41.70	41.80	41.90	41
42	42.00	42.10	42.20	42.30	42.40	42.50	42.60	42.70	42.80	42.90	42
43	43.00	43.10	43.20	43.30	43.40	43.50	43.60	43.70	43.80	43.90	43
44	44.00	44.10	44.20	44.30	44.40	44.50	44.60	44.70	44.80	44.90	44
45	45.00	45.10	45.20	45.30	45.40	45.50	45.60	45.70	45.80	45.90	45
46	46.00	46.10	46.20	46.30	46.40	46.50	46.60	46.70	46.80	46.90	46
47	47.00	47.10	47.20	47.30	47.40	47.50	47.60	47.70	47.80	47.90	47
48	48.00	48.10	48.20	48.30	48.40	48.50	48.60	48.70	48.80	48.90	48
49	49.00	49.10	49.20	49.30	49.40	49.50	49.60	49.70	49.80	49.90	49
50	50.00	50.10	50.20	50.30	50.40	50.50	50.60	50.70	50.80	50.90	50

Distance of slope stake from side or shoulder stake for any width roadway, slope 1 to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body of table in same row and column gives distance from side stake to slope stake. If ground is not level estimate the difference in elevation between the side stake and slope stake, lower target by this amount if cut, elevate if fill. Add this amount to cut or fill and find distance in table. Set up rod at this point, and line of sight should cut target. If it does not make the slight adjustment necessary.

Please Return to
City of San Diego Water Dept.
Room 903 Civic Center

685.92
479.63
206.31
765.66
755.66
485.97
3.00

300' 75' RT
250 150' RT
150 200' RT
1300' 100' LT

TABLE XIII—CORRECTIONS FOR TANGENTS AND EXTERNALS

These corrections are to be added to the approximate values, found by dividing the tangent, or external, for a 1° curve (Table VIII) by the degree of curve, in order to obtain the true tangents, or externals. Intermediate values may be obtained by interpolation.

FOR TANGENTS ADD

Central Angle	DEGREE OF CURVE													
	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°
10°	.03	.06	.09	.13	.16	.19	.22	.25	.28	.31	.34	.38	.42	.46
15°	.04	.10	.14	.19	.24	.29	.34	.39	.45	.51	.53	.58	.63	.68
20°	.06	.13	.19	.26	.32	.39	.45	.51	.58	.65	.72	.79	.84	.90
25°	.08	.16	.24	.33	.40	.49	.58	.67	.75	.83	.90	.99	1.06	1.14
30°	.10	.19	.29	.39	.49	.59	.69	.79	.89	.99	1.09	1.20	1.29	1.39
35°	.11	.22	.34	.47	.58	.69	.79	.81	.92	1.04	1.29	1.42	1.54	1.66
40°	.13	.26	.40	.53	.67	.80	.93	1.06	1.20	1.34	1.49	1.64	1.79	1.94
45°	.15	.30	.44	.60	.76	.91	1.06	1.21	1.37	1.52	1.70	1.87	2.04	2.21
50°	.17	.34	.51	.68	.85	1.02	1.19	1.36	1.54	1.72	1.91	2.10	2.29	2.48
55°	.19	.38	.57	.76	.95	1.14	1.32	1.52	1.72	1.92	2.14	2.35	2.56	2.77
60°	.21	.42	.63	.84	1.05	1.27	1.49	1.71	1.94	2.17	2.38	2.60	2.83	3.07
65°	.23	.46	.69	.93	1.16	1.40	1.64	1.88	2.13	2.38	2.63	2.88	3.13	3.39
70°	.25	.51	.76	1.02	1.28	1.54	1.80	2.06	2.33	2.60	2.88	3.16	3.44	3.72
75°	.27	.56	.83	1.12	1.40	1.69	1.98	2.27	2.57	2.87	3.16	3.47	3.78	4.09
80°	.30	.61	.91	1.22	1.53	1.84	2.15	2.46	2.78	3.10	3.44	3.78	4.12	4.46
85°	.33	.66	1.00	1.33	1.68	2.02	2.36	2.70	3.05	3.40	3.77	4.14	4.55	4.89
90°	.36	.72	1.09	1.45	1.83	2.20	2.57	2.94	3.32	3.70	4.10	4.50	4.91	5.32
95°	.39	.79	1.19	1.55	2.00	2.40	2.80	3.20	3.61	4.02	4.40	4.98	5.38	5.83
100°	.43	.86	1.30	1.74	2.18	2.62	3.06	3.50	3.95	4.40	4.88	5.37	5.85	6.34
110°	.51	1.03	1.56	2.08	2.61	3.14	3.67	4.21	4.76	5.31	5.86	6.43	7.01	7.60
120°	.62	1.25	1.93	2.52	3.16	3.81	4.45	5.11	5.77	6.44	7.12	7.80	8.50	9.22

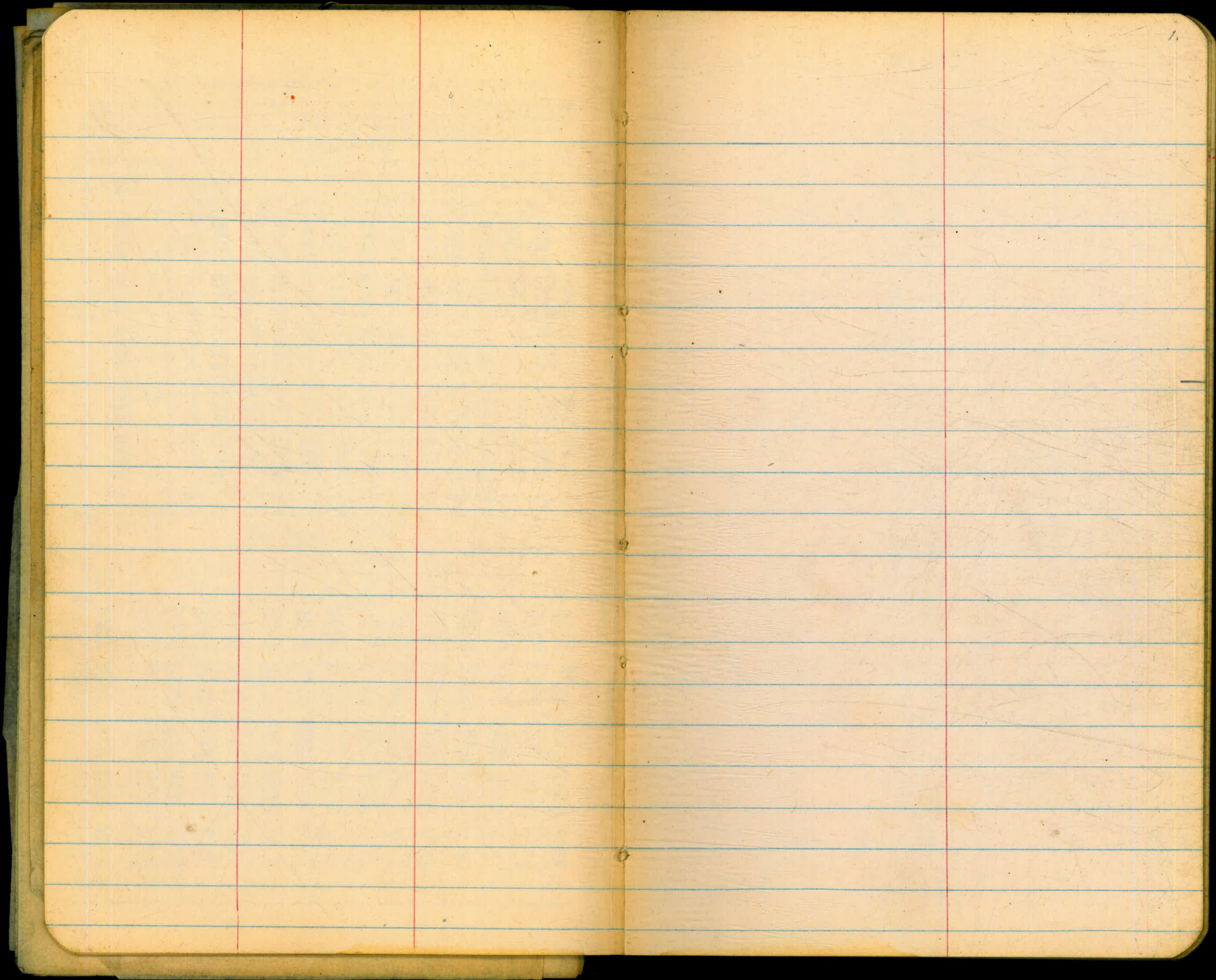
FOR EXTERNALS ADD

Central Angle	DEGREE OF CURVE													
	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°
10°	.001	.003	.004	.006	.007	.008	.009	.011	.012	.014	.015	.017	.018	.020
15°	.003	.007	.010	.014	.018	.023	.027	.029	.032	.035	.039	.043	.047	.051
20°	.006	.011	.017	.022	.028	.034	.038	.045	.051	.057	.063	.070	.076	.083
25°	.009	.018	.027	.036	.046	.056	.065	.074	.083	.093	.106	.120	.127	.135
30°	.013	.025	.038	.051	.065	.078	.090	.103	.116	.129	.149	.170	.179	.188
35°	.018	.035	.054	.072	.086	.109	.131	.153	.175	.197	.213	.230	.247	.264
40°	.023	.046	.070	.093	.117	.141	.172	.203	.234	.265	.277	.290	.315	.341
45°	.030	.060	.093	.119	.153	.184	.216	.254	.289	.325	.351	.378	.411	.445
50°	.037	.075	.116	.151	.189	.227	.266	.305	.345	.384	.425	.467	.508	.550
55°	.046	.093	.142	.188	.236	.283	.332	.381	.420	.479	.530	.582	.641	.700
60°	.056	.112	.168	.225	.283	.340	.398	.457	.516	.575	.636	.697	.774	.851
65°	.067	.135	.204	.273	.343	.412	.483	.554	.625	.697	.771	.845	.922	1.01
70°	.080	.159	.240	.321	.403	.485	.568	.652	.735	.819	.906	.994	1.08	1.17
75°	.095	.182	.286	.383	.480	.578	.678	.777	.877	.977	1.07	1.18	1.29	1.39
80°	.110	.220	.332	.445	.558	.671	.787	.903	1.02	1.13	1.25	1.38	1.50	1.62
85°	.128	.259	.391	.524	.657	.790	.926	1.06	1.20	1.34	1.47	1.62	1.76	1.91
90°	.149	.299	.450	.603	.756	.910	1.07	1.22	1.38	1.54	1.70	1.87	2.03	2.20
95°	.174	.350	.522	.706	.885	1.06	1.25	1.43	1.62	1.80	1.99	2.18	2.38	2.58
100°	.200	.401	.604	.809	1.01	1.22	1.43	1.64	1.85	2.06	2.28	2.50	2.73	2.96
110°	.268	.536	.806	1.08	1.35	1.63	1.91	2.20	2.48	2.76	3.05	3.35	3.66	3.96
120°	.360	.721	1.08	1.45	1.82	2.19	2.57	2.95	3.33	3.72	4.11	4.50	4.91	5.32

INDEX

see original survey

San Vicente Aqueduct Connection, X-sec. 6-40 ✓
 " " " " X-sects. Rev. 12100-19150 41-44 ✓
 " " " " X-sects Extensions 45-53 ✓
 using FINAL profile, Rev. Align. 55-62 ✓
 Station



SAN DIEGO AQUEDUCT — SAN VICENTE
 PROPOSED PIPELINE
 R2
 "Fly Line"

Aug. 4 1954
 BEATTY
 SHOREY
 MARTELL
 ALEXANDER

33+05 P.I. 750.58

S 28°30' E
 B.S.

Stadia 140'

S 28°30' E
 F.S.

- 1) 29°05' RT.
- 2) 58°10'

31+65 P.I. 750.94

S 57°30' E
 B.S.

Stadia 231'

S 57°45' E
 F.S.

- 1) 33°35'30" RT
- 2) 67°11'

27+34 P.I. 752.04

B.S. (same)
 N 88°25' E
 F.S.

Stadia 480'

- 1) 27°45' RT.
- 2) 55°30'

22+54 P.I. Elev. 753.26

N 60°25' E
 B.S.

(Cont'd from F.B. 869 p. 45)

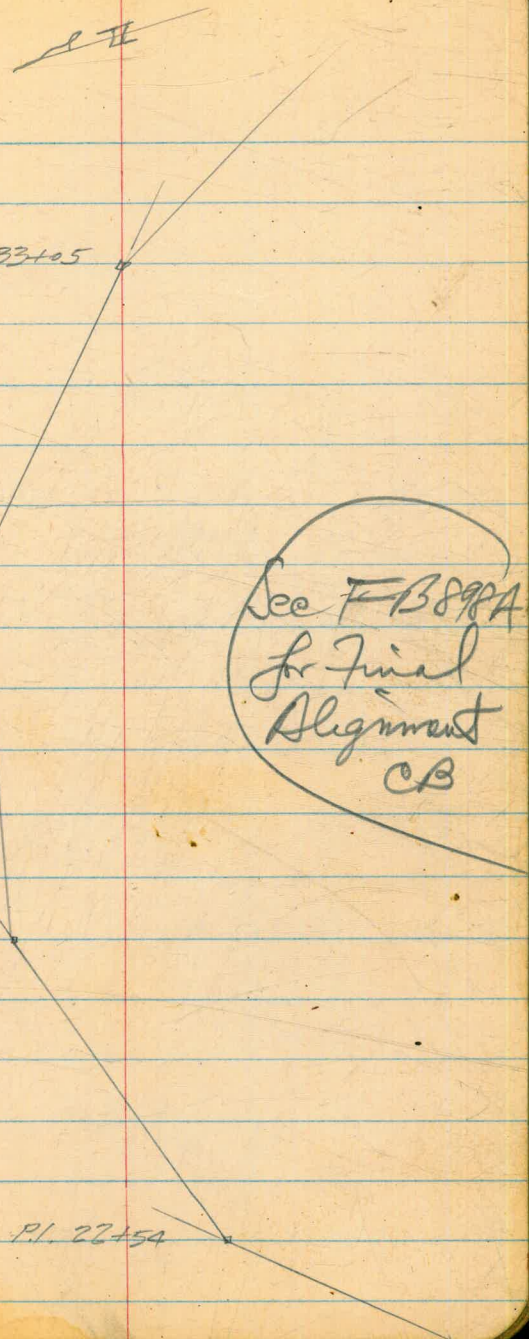
P.I. 33+05

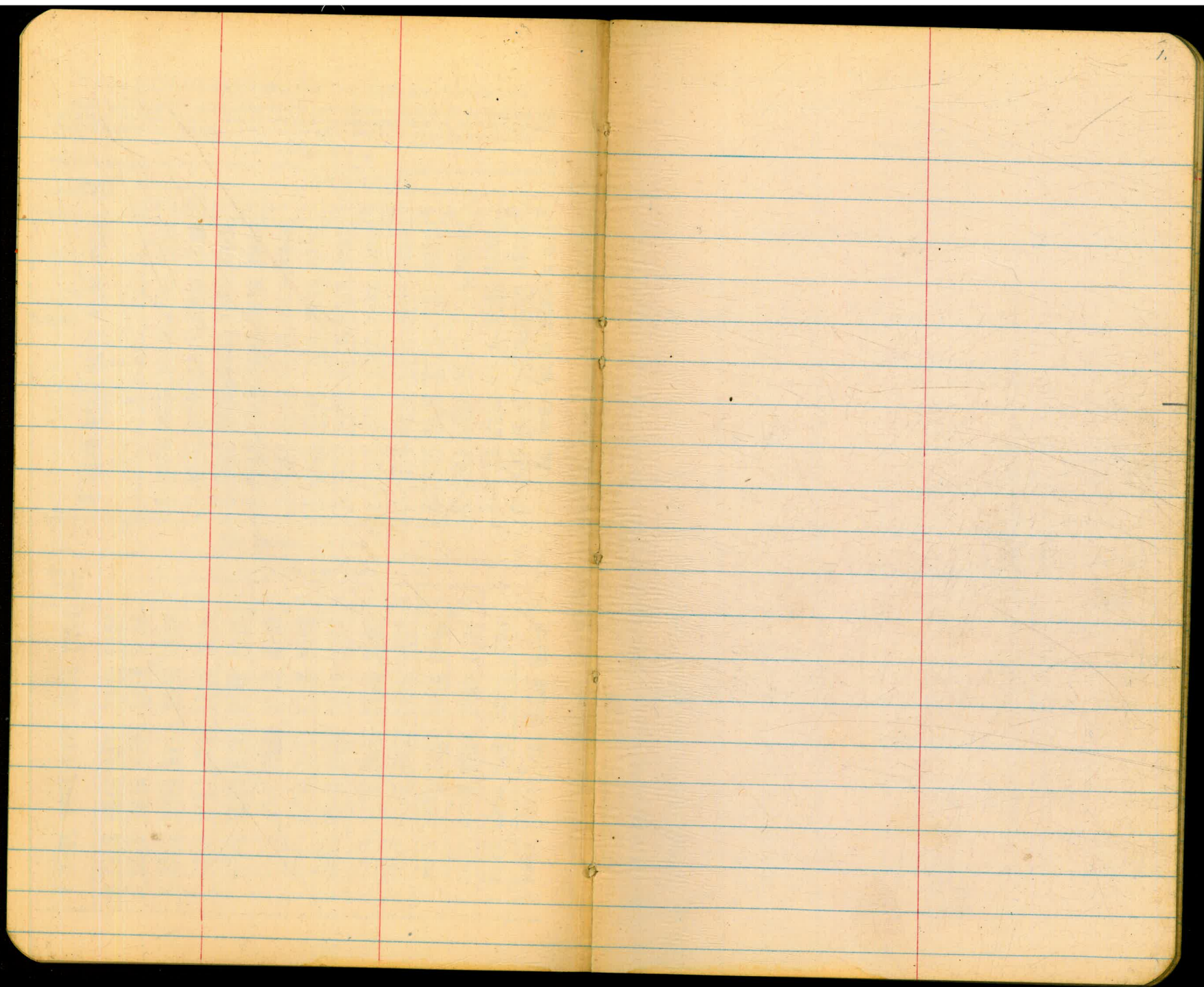
P.I. 31+65

P.I. 27+34

P.I. 22+54

See F.B. 898A
 for Final
 Alignment
 CB





SAN DIEGO ARQUEDUCT — SAN VICENTE
 PROPOSED PIPELINE
 R2
 "Fly Line"

Aug. 2 1952
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 SHOREY
 MARTELL
 ALEXANDER

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N 60°45' E
 B.S.

(Cont'd from F.B. 269 p. 45)

P.I. 33+05

P.I. 31+65

P.I. 27+34

P.I. 22+54

See FB 898A
 for Final
 Alignment
 CB

RT

8/2/54

3.

59+82 P.I. Elev 691.60

= 342.
Stadia 355' @ 11°53'

A.S. S 36°45'E

F.S. S 37°00'E

1) 39°21' LT

2) 78°42'

P.I.
56+40 (on saddle) Elev. 762.18

Stadia 110' F.S. S 2°15' W

P.O.T.
55+30 (on saddle) Elev. 763.83

Stadia 1550' F.S. S 2°45' W

1) 22°38' RT
2) 45°15'

39+80 P.I. 748.87

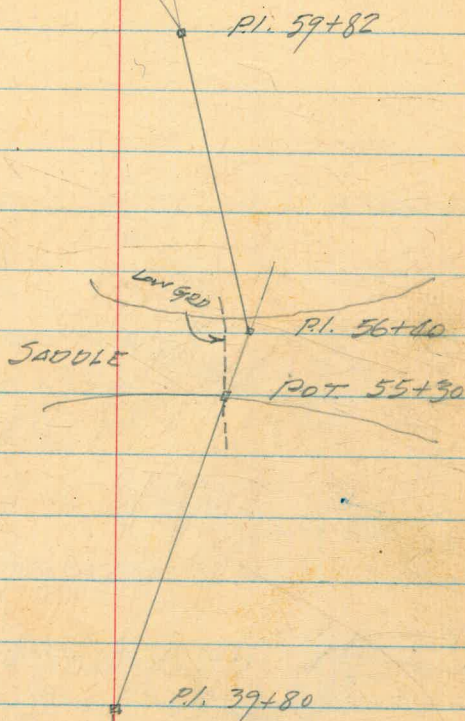
A.C. S 20°00' E

Stadia 675'

F.S. S 19°30' E

1) 8°58'45" RT
2) 17°57'30"

33+05 P.I. Elev 750.58



P.I. 33+05

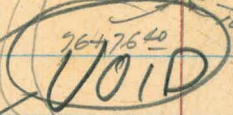
8/4/54

4.

P.M.

455.47

spike in row pole P-72926 on Nly side of paved road.



19128
100
18120

112 x 967
BLDG

104.40 wly To Ely Edge VENTURI

91°52'30" RT. To & S.V. 2



See 7B P69- P52 for
cone of station on
surveyed route 9/14/54

76+76.40
this
is
key line
station

~~-18+22 SV#2~~
Elev. 454.71

Stadia 1580 @ 11'05"
+ 4612 167.40

3 51°15' E
F.S

14°16' LT.
28°32'

59+82 P.I.

Elev. 691.60

P.I. 59+82

See FB 898A
for Final Alignment
Stations CB

R-2

8-9-54

San Diego Aqueduct - San Vicente
Proposed Pipeline Profile & X Sec

WERT
KEMP
HOBANIAN

Sept. 13, 1954
X-Sects Extended
Beatty
Shorey
Martell
Alexander

These
are
revised

Station	Left	Right	Top So. Tunnel Portal	El. taken from plan
		765.66		
0+00	1.46 767.12		758.6	761.6
			8.5 19	0.5 15
		758.3 757.8 757.4 752.6 751.1		
		50 43 21 39 39		
0+15		746.5 747.5 750.8	754.3	760.5
		50 33 32	12.8 25	1.0 20
T.P.		13.08 754.04		
	0.14 754.18			
0+47		737.5 740.0 750.7	749.5	749.7
		50 46 38	5.0 15	4.8 20
T.P.		12.40 741.78		
	3.00 744.78			
0+65		736.0 740.0 741.0	741.9	742.7
		50 40	3.8 15	2.1 20
T.P.		12.66 732.12		
	0.38 732.50			
1+00		727.3 730.1	722.1	730.0
		50	2.4 25	2.5 25

1+30
 T.P.
 11.26 721.24
 0.26 721.50

1+40

1+55
~~1+50~~ No!?

1+75
~~1+80~~ No!?

1+85
~~1+90~~ No!?

2+00

16. E RE 725.9 726.0 722.0
 721.3 721.5 719.9 722.3 723.1 722.9 720.0 720.0
 50 25 75 0 70 25 29 38
 No.

714.7 715.5 716.4 717.3 719.2 714.3 716.0 718.0
 6.8 6.0 5.1 4.2 8.3 31 31 39
 25 75 0 75 25 50 46 40
 No.

708.7 708.0 710.0 710.9 712.0 714.0 716.0 718.0
 12.8 13.5 10.6 21 25 27 29 33
 20 0 9 20 21 25 27 29 33
 willow creek
 726.0 724.0
 50 44

703.5 705.9 706 710.0 711.4 712.0 714.0 716.0 718.0 720.0
 18.0 15.6 11.1 10 16 21 26 34 39
 20 0 4 8 70
 willow dry creek
 No.

707.5 710.7 712 714.0 711.9 716 718.0 720.0 722.0 724.0 726.0
 14.0 11.8 8 13 6.6 18 23 28 35 42 50
 75 0 8 13 75 18 23 28 35 42 50

707.8 714.5 718.3 720.0 722.0 724.0 726.0 728.0
 13.7 9.0 3.2 25 33 40 45 50
 75 0 20 25 33 40 45 50

721.50

2+50

T.P. 0.44 721.06

1.47 722.53

2+75

3+00

3+50

3+75 ϵ Profile - 707.3

T.P. 12.31 710.22

3+90 ϵ Profile - 705.0

3.44 713.66

3+93 ϵ - 701.0

7+00 0.78 712.88

11.69 722.57

4+25 ϵ Profile - 711.6

4+39 ϵ Profile - 714.6

4+50

T.P. 0.94 723.63

12.39 736.02

16

714.1

24
20

718.8

27
7 14 20

720.0 722.0

723.1

+1.6

23 30 38 45 50

716.0

6.5
20

720.6

1.9
0

722.0 724.0

724.9

+2.1

28 37 48 50

720.0 722.0

723.9

+1.1

29 39 50

714.9

7.6
20

718.6

3.9
0

720.0 722.0

723.9

726.0 727.9

712.0

15.4
20

9.5
0

716.0 718.0 718.3

720.0 722.0 722.9

3 12 23 20 33 45 50

703.2 705.0 706.0 708.0 710.0 712.0 713.2

20 0 2 17 31 43 50

699.4

14.3
20

711.9

11.8
0

702.0 704.0 704.2

706.0 708.0 709.0

7 15 20 26 43 dry creek

71.6

0 7 20 27 36 45 50

714.0 716.0 718.0 720.0 722.0 722.2

714.3

10.3
25

720.4

1.2
0

722.2 723.4

724.0 726.0 728.0 730.0

731.5

9 20 21 29 35 40 50

4+75 E Profile - 725.5

736.02

5+00

T.P.

0.37 735.65

13.09 748.74

5+50

6+00

T.P.

0.97 747.77

12.41 760.18

6+50

7+00

7+45.31 P.L.

7+60 E Profile

757.7

7+80 E Profile

754.9

16.

725.5

10.5
20

734.6

14.1
20

740.0

8.7
20

742.2

18.0
20

746.2

14.0
15

$\begin{array}{r} 760.0 \\ 752.0 \\ 744.0 \\ 736.0 \\ 728.0 \\ 720.0 \\ 712.0 \\ 704.0 \\ 738.0 \\ 730.0 \\ 722.0 \\ 714.0 \\ 706.0 \\ 736.0 \\ 728.0 \\ 720.0 \\ 712.0 \\ 704.0 \\ 736.0 \\ 728.0 \\ 720.0 \\ 712.0 \\ 704.0 \end{array}$
 No 1.6 1.5 1.3 1.7 3 0
 7 13 18

732.9

3.1
0

741.6

7.1
0

747.7

11.0
0

750.2

10.0
0

754.2

8.0
0

734.0

3

744.0

7

750.0

5

756.0

2

758.0

2

736.0

13

746.0

14

752.0

10

756.0

15

760.0

15

737.2

1.2
20

747.5

12
20

755.7

2.0
20

760.2

0.0
20

762.2

2.0
20

747.7 746.0 744.0

50 26 41

738.0 740.0 742.0

20 26 35

758.0 756.0

50 22

748.0 750.0 752.0 754.0

20 21 27 32 38

756.0 758.0 760.0 762.0

20 24 30 35 40 47 50

750.0 752.0 754.0 756.0 758.0 760.0

22 27 32 38 41 45 49

756.0 758.0 760.0 762.0 764.0 766.0

20 19 22 26 32 36

756.0 760.0 764.0

50 25 41

766.0 768.0 770.0 772.0

20 22 26 30 36 41

777.6 776.0

50 75

760.18

8100
8+15 E Profile - **747.9**

T.P. 9.52 750.66
8+22 E Profile - **744.6**

0.86 751.52
8+30 - **745.0**
 8+50

T.P. 12.34 739.18
8+75 E Profile **737.3**

0.23 739.41

9+00

9+35 E Profile **734.1**

9150

T.P. 12.05 727.36

0.46 727.82

10+00

12.34 715.48

0.50 715.98

11.79 703.19

0.16 703.35

724.0 720.0 730.0
 39 44 50 T.C. 26

720.0 725.0 720.0 722.0 724.0 743.0 746.0 748.0 750.0 751.0
 36 30 25 20 16 20 11 6 2 0
 132 92
 722.0 719.8
 44 50

724.0 726.0 728.0 730.0 732.0 734.0 731.5 726.0 728.0 720.0 741.5
 39 34 29 23 19 15 20.0 11 8 3 0
 20.0 12.0
 15

716.0 718.0 720.0 722.0 724.0 726.0 728.0 726.8 720.0 722.0 735.3
 50 46 40 35 30 25 19 20 15 10 2 0
 13.1 11

710.5 712.0 714.0 716.0 718.0 720.0 722.0 724.0 726.8 726.0 728.0 730.0 731.9
 75 72 67 62 58 53 46 36 20 26 19 7 0
 12.6 7.5

705.0 707.0 709.0 711.0 713.0 714.3 715.0
 78 72 63 49 29 20 12.5 12.8
 20

9-14-50
 West of party
 X-sect. Ex 1.3

703.35

10+50

8.85 694.50

0.39 694.89

11+00

12.78 682.11

1.11 683.22

12.22 671.00

0.79 671.79

11+50

12.62 659.17

2.04 661.21

12+00

? reversed

12+50

12+75

13+00

1.75 657.96

5.19 664.89

692.0	692.0	694.0	696.7	699.0	701.0	707.3
82	45	33	20	13	24	3.9
					0	20

674.0	674.0	676.0	678.0	680.0	681.6	684.0	686.0	688.0	692.2
78	65	57	35	27	21	16	9	8	2.7
									22

658.0	660.0	662.0	664.0	666.0	668.0	669.5
75	62	50	73	74	72	23
						0

Note: -
See pp 41-44
for revision 12+00 to 19+50
+FB

Also FB
pp 96-97

655.6	651.4	645.4	644.1
807.001 0000	807.001 0000	807.001 0000	807.001 0000
5.6	28	15.8	17.1
20	0	10	20
645.7	640.7	634.2	654.8
15.5	10.5	7.0	6.4
20	0	12	23
644.4	646.4	650.9	
807.001 0000	807.001 0000	807.001 0000	
16.8	14.8	10.3	
24	0	23	
649.3	653.0	658.2	
11.9	8.2	3.0	
20	0	20	

664.59

13+50

13+88

14+10

14+50

14+75

15+00

0.23 664.36

12.88 677.24

1.10 676.14

12.80 688.94

15+50

0.54 688.40

12.79 701.19

0.73 700.46

12.02 712.48

16+00

LT

674.0
 $\frac{10.6}{20}$ 652.8
 807 d.c.
 $\frac{11.8}{17}$ 656.0
 $\frac{8.6}{20}$ 653.3
 $\frac{11.3}{20}$ 652.6
 $\frac{12.0}{20}$ 651.8
 807 d.c.
 $\frac{17.8}{25}$ 646.79
 $\frac{13.8}{6}$

RT

660.0
 $\frac{7.6}{0}$ 657.0
 807 d.c.
 $\frac{7.6}{0}$ 660.0
 $\frac{7.6}{0}$ 658.1
 $\frac{6.5}{0}$ 658.1
 $\frac{6.5}{0}$ 654.3
 $\frac{7.8}{0}$

RT

664.0
 $\frac{0.6}{20}$ 660.7
 $\frac{3.9}{20}$ 664.3
 $\frac{0.3}{20}$ 662.6
 $\frac{2.0}{20}$ 667.4
 $\frac{1.2}{20}$ 658.8
 807 d.c.
 $\frac{5.8}{20}$

680.1
 $\frac{8.8}{20}$

680.8
 $\frac{8.1}{0}$

680.5
 $\frac{8.9}{10}$

680.1
 $\frac{8.8}{20}$

680.7
 $\frac{8.1}{30}$

705.7
 $\frac{6.8}{25}$

707.0
 $\frac{5.5}{0}$

706.8
 $\frac{5.7}{22}$

704.8
 $\frac{7.7}{32}$

712.98

0.08 712.90

11.70 724.10

0.10 724.00

11.19 735.19

16+50

0.16 735.03

12.89 747.92

0.00 747.92

12.66 760.58

17+06.80 PI

BACK LEG

17+06.80 PI

5.89 754.69 = 759.62

Forward leg

17+06.80 PI

17+50

11.88 748.70

0.91 749.61

LT

E

RT

729.1

8.1
28.

728.9

6.3
0

729.3

5.9
20.

OK →

752.1
15.48.5
22.747.3
14.913.3
17.745.2
11.215.1
18.754.7
15.45.9
0754.7
15.45.9
0754.0
15.46.6
0756.7
15.43.9
25.763.6
15.44.3
17.758.0
15.42.6
16.

742.61

18+00

1140 738.21

0.94 739.17

18+50

12.87 726.30

6.84 733.14

13.17 719.97

0.00 719.97

18+80

12.38 707.59

0.77 708.36

19+00

11.87 696.42

1.76 698.25

19+34

LT

E

RT

763.5 + 13.9 25'	744.2 51.9 0	736.5 13.1 20'
------------------------	--------------------	----------------------

Reverse?

720.9

16.3
20'

726.4

12.8
0

749.2

+ 10
20'

708.8

11.2
20'

712.4

7.6
0

719.0

1.0
20'

700.4

8.0
20'

704.8

3.6
0

707.1

1.3
20'

682.9

15.4
20'

698.7

19.6
15'

678.8

19.5
10'

BOT. DRY CREEK

13.5
0

684.8

8.5
5'

689.8

6.1
10'

692.2

3.0
20'

695.3

3.0
20'

198.25

19+50 0.09 698.16

11.62 709.78

20+00 1.03 708.75

12.86 721.71

0.15 721.56

12.52 734.08

20+50 0.20 733.76

12.29 746.75

21+00 0.39 746.36

13.05 759.91

21+50

22+00

$\begin{matrix} \swarrow & & \searrow \\ 671.3 & & 681.3 \\ \textcircled{669.3} & & 687.3 \\ \swarrow & & \searrow \\ 220 & 170 & 110 & 70 & 696.3 & 701.3 \\ 36 & 21 & 8 & 0 & 15 & 20 \\ \end{matrix}$

$\begin{matrix} 701.5 & 709.6 & 719.8 \\ 8.3 & 0.0 & +11.0 \\ 18 & 0 & 20 \\ \end{matrix}$

$\begin{matrix} 721.4 & 726.0 & 734.0 \\ 5 & 47 & 41 & 35 \\ 720 & 710 & 760 & 780 & 780 \\ 20 & 5 & 14 & 19 & 25 & 30 \\ \end{matrix}$

$\begin{matrix} 715.4 & 726.4 & 734.4 \\ 18.7 & 7.7 & +0.3 \\ 18 & 0 & 21 \\ \end{matrix}$

$\begin{matrix} 730.7 & 738.9 & 743.2 \\ 426.7 & 738.9 & 743.2 \\ 16.1 & 7.9 & +1.4 \\ 20 & 0 & 20 \\ \end{matrix}$

$\begin{matrix} 740.5 & 748.5 & 756.5 \\ 18.9 & 14.9 & 2.9 \\ 20 & 0 & 20 \\ \end{matrix}$

$\begin{matrix} 746.4 & 754.4 & 756.1 \\ 13.0 & 5.0 & 3.3 \\ 20 & 0 & 20 \\ \end{matrix}$

$\begin{matrix} 760.8 & 768.0 & 766.0 & 764.0 & 760.0 \\ 50 & 49 & 44 & 39 & 33 \\ 750.0 & 752.0 & 750.0 & 750.0 & 750.0 & 760.0 \\ 20 & 3 & 8 & 12 & 18 & 23 & 28 \\ \end{matrix}$

$\begin{matrix} 771.0 & 770.0 & 768.0 \\ 50 & 47 & 20 \\ 750.0 & 758.0 & 760.0 & 762.0 & 760.0 & 766.0 \\ 20 & 5 & 11 & 16 & 23 & 28 & 35 \\ \end{matrix}$

Cross-Section EXT. 3
 Sept. 12 1954
 Beach
 Speer
 Martell
 Alexander

759.41

22+38.80 PI

609 753.92 = 753.21

BACK LEG

22+38.80 PI

FORWARD LEG

22+38.80 PI

22+50 £ profile

753.2

22+65 £ profile

1127 748.34

752.2

904 752.38

23+00

1290 739.58

080 740.28

23+25

1267 727.61

012 727.73

23+50

1249 715.24

011 715.35

23+60 £ profile

719.5

1248 702.87

023 703.10

LT

£

RT

746.5

753.3

759.3

769.1 768.0
50 48

12.9
20'

6.1
0

0.1
20'

756.0 758.0 760.0 762.0 764.0 766.0

Split of £ - 7 12 20 27 32 40

747.3

753.3

759.6

12.1
20'

6.1
0

+0.2
20'

752.2 754.0 756.0 758.0 760.0 762.0 764.0 766.0 768.0

£ 5 10 17 24 29 37 43 50

753.5

753.3

750.4

760.5 760.0 758.0
50 48 43

12.1
20'

6.1
0

3.0
20'

764.0 766.0 768.0 770.0 772.0 774.0 776.0

5 10 17 23 28 33 39

128.9

753.9

757.9

749.7
50

11.4
20'

6.4
0

3.4
20'

736.0 738.0 740.0 742.0 744.0 746.0 748.0

6 13 19 26 30 38 47

116.5

722.5

727.5

739.2 738.0
50 47

16.2
20'

6.2
0

0.2
20'

726.0 728.0 730.0 732.0 734.0 736.0

10 15 24 29 36 42

703.10

24+00

1244 690.44

1.62692.06

24+50

25+00

1.12 690.94

1287 703.81

047 703.34

1300 716.34

25+50

2.56 713.78

1267 726.95

0.39 726.06

13.02 739.15

26+00

LT

C

RT

692.3

698.3

703.1

10.8
20'

48
0

0.0
20'

716.0 714.0 712.0 710.0
50 60 35 30
100.0 702.0 704.0 706.0 708.0
6 11 15 20 24

667.5 669.5 671.5 673.5 675.5 683.5
24.6 22.6 20.6 12.8 12.6 8.6
25' 20' 72' 6' 0' 27'

680.1 684.1 689.1 696.1
12.0 8.0 3.0 4.0
20' 16' 0' 20'

704.7 706.0 705.1 106.3 708.2 710.1
11.6 10.3 11.2 10.0 9.1 6.2
20' 21' 0' 5' 8' 20'

725.8 731.2 738.2
13.4 8.0 4.0
20' 0' 20'

738.34

28 + 50

1268725.66

1191737.57

29 + 00

29 + 13

29 + 50

0.27 737.30

1327750.57

30 + 00

0.02 750.55

8.15 758.70

30 + 50

31 + 00

LT

E

RT

730.0

 $\frac{8.3}{20}$

736.0

 $\frac{2.3}{0}$

744.7

 $\frac{+6.9}{20}$

713.7

 $\frac{23.9}{20}$

717.7

 $\frac{19.9}{15}$

725.7

 $\frac{11.9}{0}$

735.4

 $\frac{2.2}{20}$

712.7

 $\frac{27.9}{20}$

715.7

 $\frac{21.9}{15}$

721.7

 $\frac{15.9}{0}$

734.7

 $\frac{2.9}{20}$

722.8

 $\frac{12.8}{20}$

730.2

 $\frac{7.2}{0}$

735.7

 $\frac{1.9}{20}$

734.5

 $\frac{16.1}{20}$

742.5

 $\frac{8.1}{0}$

749.5

 $\frac{1.1}{20}$

742.0

 $\frac{16.7}{20}$

750.7

 $\frac{8.0}{0}$

757.1

 $\frac{1.6}{20}$

746.6

 $\frac{12.1}{20}$

753.9

 $\frac{2.8}{0}$

761.2

 $\frac{+2.5}{20}$

T.P. 758.70
 31 + 42.73 P1 7.69 751.01 = 750.94

6.03 757.04

31 + 42.73 P1

32 + 00

32 + 50

32 + 83.09 P1

6.38 750.66 = 750.58

32 + 83.09 P1

33 + 00

11.58 745.46

0.06 745.52

33 + 50

13.20 732.20

0.59 732.84

LT £ PT

743.0	751.0	761.0
14.0	4.0	+ 4.0
20'	0	20'

743.4	752.2	760.2
13.6	2.8	+ 3.2
20'	0	20'

742.6	752.5	760.5
14.4	2.5	+ 3.5
20'	0	20'

742.8	750.6	759.3
14.2	6.4	+ 2.3
20	0	20'

743.6	749.7	757.8
13.4	2.3	+ 0.8
20'	0	20'

733.4	739.4	745.6
12.1	6.1	+ 0.6
20'	0	20'

732.84

33+80

34+00

12.81 720.03

0.49 720.52

12.68 707.84

0.82 708.66

34+50

12.93 695.73

0.88 696.61

12.44 684.17

2.11 686.28

35+00

12.66 673.60

0.01 673.63

12.24 661.39

0.07 661.46

LT

C

PT

124.8

120.8

133.8

$\frac{8.0}{20}$

$\frac{2.0}{0}$

$\frac{11.0}{20}$

118.3

122.3

125.3

$\frac{14.5}{20}$

$\frac{10.5}{0}$

$\frac{7.5}{20}$

697.2

700.1

702.1

$\frac{11.5}{20}$

$\frac{8.6}{0}$

$\frac{6.6}{20}$

674.2

677.8

680.2

$\frac{12.1}{20}$

$\frac{8.5}{0}$

$\frac{6.1}{20}$

661.46

35+50

085 660.61

12.77 673.02

35+70

36+00

0.69 672.39

12.67 685.06

0.39 684.67

13.00 697.67

36+50

0.66 697.01

12.16 709.17

37+00

0.13 709.04

13.04 722.08

LT

E

RT

647.7

657.0

657.0

13.8

BOT. DRY BECK

10.5

4.5

20'

0

20'

658.8

663.8

665.8

14.3

9.8

6.3

20'

0

20'

665.8

669.8

676.3

7.3

3.3

+ 3.2

20'

0

20'

682.1

687.1

693.4

15.6

10.6

2.3

20'

0

20'

695.0

705.2

712.3

14.2

7.0

+ 3.1

20'

0

20'

722.08

37+50

0.08 722.04

10.84 734.98

0.25 734.73

12.78 747.51

38+00

38+50

7m 71889 P
 should be
 39410-54

0.45 747.06

8.24 755.30

39+00

39+55.48 PI

BACK LES

39+55.98 PI

6.35 748.95 = 748.87

FORWARD LES

39+55.98 PI

40+00

dT

£

PT

716.1

 $\frac{6.0}{20}$

722.1

 $\frac{0.0}{0}$

727.4

 $\frac{+5.3}{20}$

729.5

 $\frac{18.0}{20}$

736.6

 $\frac{10.9}{0}$

743.1

 $\frac{4.8}{20}$

740.6

 $\frac{6.9}{20}$

746.6

 $\frac{0.9}{0}$

743.7

 $\frac{3.8}{20}$

744.3

 $\frac{11.0}{20}$

750.5

 $\frac{4.8}{0}$

756.5

 $\frac{+1.2}{20}$

741.9

 $\frac{13.4}{20}$

748.9

 $\frac{6.7}{0}$

754.9

 $\frac{0.8}{20}$

741.9

 $\frac{13.4}{20}$

748.9

 $\frac{6.7}{0}$

754.9

 $\frac{0.7}{20}$

742.3

 $\frac{13.0}{20}$

749.3

 $\frac{6.0}{0}$

756.3

 $\frac{+1.0}{20}$

755.30
 40+50
 2.34 745.96
 2.92 748.82
 41+00
 12.49 736.39
 0.40 736.81
 41+50
 42+00
 12.73 724.08
 0.24 724.32
 42+50
 12.33 711.99
 2.03 719.02
 43+00
 1.22 701.75
 1.31 703.69

LT	£	RT
137.6	746.6	754.6
$\frac{12.7}{20}$	$\frac{8.7}{0}$	$\frac{0.7}{20}$
734.2	742.2	748.5
$\frac{14.7}{20}$	$\frac{6.7}{0}$	$\frac{0.4}{20}$
726.8	734.8	742.5
$\frac{10.0}{20}$	$\frac{2.0}{0}$	$\frac{6.0}{20}$
719.0	726.7	733.3
$\frac{17.8}{20}$	$\frac{10.5}{0}$	$\frac{3.5}{20}$
708.0	709.5	716.0
$\frac{16.3}{20}$	$\frac{19.8}{15}$	$\frac{8.3}{0}$
		$\frac{2.8}{10}$
		$\frac{0.6}{20}$
699.9	704.9	708.6
$\frac{14.1}{20}$	$\frac{8.1}{0}$	$\frac{5.4}{20}$

703.09
43+50

12.82 690.17

1.73 691.90
44+00

12.65 679.25

0.59 679.79

12.78 667.01

0.78 667.79
44+50

12.00 655.77

0.85 656.62
45+00

12.61 644.01

0.73 644.74
45+50

LT	R	RT
684.2	692.2	697.2
$\frac{18.9}{20}$	$\frac{10.0}{0}$	$\frac{5.9}{20}$

675.3	679.3	681.5
$\frac{16.6}{20}$	$\frac{12.6}{0}$	$\frac{10.9}{20}$

662.3	665.1	668.1
$\frac{5.0}{20}$	$\frac{2.7}{0}$	$\frac{+0.3}{20}$

650.5	653.0	654.5
$\frac{6.1}{20}$	$\frac{3.6}{0}$	$\frac{2.1}{20}$

640.6	641.9	642.9
$\frac{4.1}{20}$	$\frac{2.8}{0}$	$\frac{1.8}{20}$

644.74

11.77632.97

1.39634.36

46+00

12.39 621.97

3.56 623.53

46+50

46+55

46+90

47+00

47+20

47+46

LT

C

RT

626.8

 $\frac{2.6}{20}$

626.3

 $\frac{8.1}{0}$

627.8

 $\frac{7.6}{20}$

620.2

 $\frac{5.3}{20}$

620.3

 $\frac{5.2}{0}$

618.3

 $\frac{7.2}{20}$

618.5

 $\frac{7.0}{20}$

616.9

 $\frac{8.6}{0}$

615.9

 $\frac{9.6}{5}$

620.9

 $\frac{7.6}{6}$

621.9

 $\frac{5.6}{20}$

614.8

 $\frac{19.7}{20}$

613.2

 $\frac{12.3}{20}$

616.9

 $\frac{8.6}{17}$

622.1

 $\frac{3.4}{20}$

625.1

 $\frac{0.4}{20}$

614.3

 $\frac{11.2}{20}$

610.4

 $\frac{4.1}{30}$

622.9

 $\frac{2.6}{0}$

624.9

 $\frac{0.6}{20}$

615.6

 $\frac{9.9}{20}$

617.5

 $\frac{8.0}{0}$

620.4

 $\frac{5.7}{20}$

620.1

 $\frac{5.4}{20}$

621.2

 $\frac{7.3}{10}$

623.2

 $\frac{2.3}{0}$

624.2

 $\frac{4.3}{20}$

623.7

 $\frac{1.8}{20}$

625.53

6.98618.55

12.97631.52

77+50

617.6

618.7

619.8

 $\frac{13.7}{20}$ $\frac{13.8}{0}$ $\frac{11.7}{20}$

620.8

618.7

620.1

 $\frac{10.7}{20}$ $\frac{12.8}{0}$ $\frac{11.4}{20}$

77+70

630.9

629.9

629.5

 $\frac{0.6}{20}$ $\frac{1.6}{0}$ $\frac{4.0}{20}$

78+00

0.06631.76

12.71644.17

633.5

635.4

638.1

639.3

639.5

638.8

640.2

 $\frac{10.7}{20}$ $\frac{8.8}{20}$ $\frac{6.1}{20}$ $\frac{7.9}{0}$ $\frac{7.7}{20}$ $\frac{5.1}{20}$ $\frac{4.0}{20}$

48+50

1.70642.39

12.87655.26

641.7

641.7

642.4

643.4

644.6

645.0

646.0

 $\frac{13.6}{20}$ $\frac{13.6}{20}$ $\frac{12.9}{20}$ $\frac{11.9}{0}$ $\frac{10.7}{20}$ $\frac{10.3}{20}$ $\frac{2.3}{20}$

79+00

655.2

655.2

653.2

651.2

649.7

649.5

649.3

 $\frac{0.1}{20}$ $\frac{2.1}{20}$ $\frac{2.1}{20}$ $\frac{2.1}{0}$ $\frac{5.6}{20}$ $\frac{5.8}{20}$ $\frac{6.0}{20}$

79+50

2.85652.41

13.25665.56

665.56

50+00

0.04665.59

13.18 677.70

50+50

51+00

0.70 677.00

13.32 690.32

51+50

1.68 688.64

13.23 701.87

52+00

0.16 701.71

10.57 714.28

52+50

0.52 714.06

13.27 727.32

17

E

PT

663.8	663.7	659.7	659.4	655.9	658.2
$\frac{1.8}{50}$	$\frac{1.9}{20}$	$\frac{5.9}{8}$	$\frac{12.2}{17}$	$\frac{9.7}{37}$	$\frac{7.4}{50}$

678.1	672.1	669.1	664.3	662.6	664.1
$\frac{0.4}{50}$	$\frac{5.6}{20}$	$\frac{10.6}{0}$	$\frac{13.4}{20}$	$\frac{15.1}{35}$	$\frac{13.6}{50}$

682.4	678.8	675.4	672.9	669.9	670.5
$\frac{4.7}{50}$	$\frac{1.1}{25}$	$\frac{2.3}{0}$	$\frac{4.8}{20}$	$\frac{7.8}{37}$	$\frac{7.2}{50}$

690.9	688.9	684.3	680.6	678.0	678.9	677.8
$\frac{10.6}{50}$	$\frac{1.9}{40}$	$\frac{6.0}{20}$	$\frac{9.7}{0}$	$\frac{12.3}{14}$	$\frac{11.9}{30}$	$\frac{12.5}{50}$

703.0	695.7	691.7	692.0	689.8	693.2	694.2
$\frac{2.1}{50}$	$\frac{5.2}{20}$	$\frac{2.2}{7}$	$\frac{6.9}{0}$	$\frac{11.1}{25}$	$\frac{7.7}{30}$	$\frac{6.7}{50}$

715.9	707.1	705.7	707.7	704.2
$\frac{4.6}{50}$	$\frac{6.2}{15}$	$\frac{7.6}{8}$	$\frac{5.6}{20}$	$\frac{9.1}{30}$

727.33

53+00

0.21 727.12

12.98 740.10

53+50

0.12 737.98

13.15 753.13

53+75

0.37 752.76

12.94 763.70

53+83

53+90

54+00

54+15

LT		E		R	
727.2	726.0	721.3	722.0	726.1	726.3
$\frac{0.1}{50'}$	$\frac{1.3}{30'}$	$\frac{6.0}{10'}$	$\frac{5.3}{0}$	$\frac{1.2}{20'}$	$\frac{1.0}{50'}$

751.3	748.3	742.3	738.3	737.1	739.3	740.3
$\frac{+11.2}{50'}$	$\frac{+8.2}{70'}$	$\frac{+2.2}{20'}$	$\frac{1.8}{0}$	$\frac{3.0}{18'}$	$\frac{0.8}{45'}$	$\frac{+0.3}{50'}$

744.7

BASE LARGE ROCK

 $\frac{8.4}{0}$

756.2

TOP LARGE ROCK

 $\frac{2.5}{0}$

752.1

UPHILL SIDE ROCK

 $\frac{13.6}{0}$

761.4	759.2	754.3	751.6	747.7	746.5	748.6
$\frac{4.3}{50'}$	$\frac{6.5}{40'}$	$\frac{11.4}{20'}$	$\frac{14.1}{0}$	$\frac{18.0}{20'}$	$\frac{19.2}{40'}$	$\frac{17.1}{50'}$

751.7

 $\frac{14.0}{0}$

765.70

54 + 20

54 + 50

55 + 00

0.96 764.74

3.99 768.68

55 + 50

55 + 88.63 P.I.

BACK LEG
55 + 88.63 P.I.FORWARD LEG
55 + 88.63 P.I.

11.34 756.34

3.45 759.79

RT P.T.

		757.0			
		87			
		0			
762.7	760.9	761.0	762.1	762.5	
30	2.8	87	3.6	3.2	
50	20	0	50	50	
762.2	762.3	764.4	766.1	770.1	
3.5	3.4	1.3	+0.8	+2.4	
50	20	0	25	50	

756.8	759.7	764.8	769.8	772.9	773.8
11.9	9.0	3.9	+1.1	+4.2	+5.1
50	25	0	25	30	50

6.95 762.23 = 762.18

756.4	760.4	762.2	764.3	769.2
12.3	8.3	6.5	4.0	+0.5
50	20	0	20	50

754.7	757.3	762.2	758.2	758.9	752.9
14.0	11.4	6.5	10.5	9.8	15.8
50	20	0	30	35	50

759.79

12.42 747.37

1.23 748.60

56+50

12.51 736.09

1.13 737.22

57+80

8.17 729.05

0.30 729.35

57+50

58+00

12.99 716.86

0.90 717.26

58+50

12.87 704.39

0.86 704.25

LT RT

749.6	746.3	742.0	739.4	736.7
$\frac{+1.0}{50'}$	$\frac{2.3}{25'}$	$\frac{6.6}{0}$	$\frac{9.2}{20'}$	$\frac{11.9}{50'}$

733.7	730.0	728.8	724.6	721.2
to water rock				
$\frac{3.5}{25'}$	$\frac{7.2}{0}$	$\frac{8.4}{18'}$	$\frac{12.6}{30'}$	$\frac{16.0}{50'}$

734.8	732.8	728.8	726.8	719.8	715.8	711.9
$\frac{+5.4}{50'}$	$\frac{+3.9}{40'}$	$\frac{0.6}{35'}$	$\frac{2.6}{25'}$	$\frac{9.6}{0}$	$\frac{13.6}{25'}$	$\frac{17.5}{50'}$

728.3	723.3	720.9	716.7	715.8	712.3	708.8
$\frac{11}{50'}$	$\frac{6.1}{40'}$	$\frac{6.5}{30'}$	$\frac{12.7}{14'}$	$\frac{13.6}{0}$	$\frac{17.1}{25'}$	$\frac{20.6}{50'}$

715.8	711.5	705.8	704.6	706.4	705.2	706.2
$\frac{1.5}{50'}$	$\frac{5.8}{30'}$	$\frac{1.5}{0}$	$\frac{12.7}{12'}$	$\frac{12.9}{13'}$	$\frac{12.1}{40'}$	$\frac{11.2}{50'}$

709.75

59+00

59+31.86 PI

326694.24

BACK LEG

59+31.86 PI

FORWARD LEG

59+31.86 PI

59+50

60+00

7.37 674.18

0.60 661.63

0.73 650.12

12.77 691.68

12.08 681.96

12.70 669.81

12.15 661.03

12.24 649.39

LT E RT

722.0	717.3	712.0	706.7	700.0	691.9	687.4	681.9
+17.5	+12.8	+7.5	+2.2	0	0	0	0
50'	45'	35'	30'		25'	20'	15'

710.6	705.9	700.6	691.6	689.7	686.4	682.4	677.3	663.4
+15.7	+4.0	+5.7	3.3	5.2	8.5	12.5	17.6	31.5
50'	90'	30'	0	8'	9'	25'	35'	50'

711.2	705.9	699.6	691.6	685.5	677.2	669.8	662.5
+16.3	+11.0	+9.7	3.3	9.4	17.7	25.1	32.4
50'	36'	29'	0	10'	25'	35'	50'

710.6	705.2	699.9	694.6	688.6	685.7	678.0	673.1	669.6	663.1
+15.7	+10.3	+5.0	0.3	6.3	9.2	16.7	21.8	25.3	31.8
50'	44'	33'	22'	0	5'	10'	30'	37'	50'

698.7	697.8	697.6	692.8	661.1	656.4
+16.2	2.7	2.7	19.7	21.4	26.1
50'	13'	0	20'	40'	50'

650.12

60+50
60+65

12.45 637.67

1.28 639.75

12.67 627.08

1.64 628.72

60+85

61+00

13.05 615.67

6.10 615.77

61+50

12.18 603.57

0.26 603.85

12.55 591.30

0.97 592.27

LT

RT

667.8	662.6	660.5	647.5	639.0	633.9	629.0	624.9
+ 17.7	+ 12.5	+ 10.4	2.6	11.1	16.2	21.1	25.2
30'	38'	28'	0	25'	35'	38'	50'
			39				
			642.2				

627.5

1.2

0

644.0	641.5	635.7	630.1	622.1	614.1	607.0
+ 15.3	+ 0.8	+ 7.0	+ 1.4	6.6	14.6	21.7
30'	35'	30'	21'	0	30'	50'

629.9

615.0

606.5

606.0

604.1

600.0

592.0

+ 12.1

0.8

9.3

9.8

11.7

15.8

23.8

30'

20'

6

0

20'

20'

50'

592.27

62+00

13.29 578.98

2.68 581.66

62+40

62+70

12.10 569.36

0.51 590.07

10.26 559.81

1.35 561.16

63+00

10.73 548.43

1.92 550.35

63+50

13.29 537.06

2.55 539.61

LT E RT

644.0	598.9	589.9	582.8	576.1
+ 14.7	+ 6.6	2.9	9.5	16.2
50'	40'	0	25'	50'

581.1	573.1	572.0	561.0
TIE TO QUIC YA. ROCK			
0.6	8.6	9.7	20.7
20'	0	20'	50'

588.8	587.7	574.7	566.6	562.7	561.2
+ 7.1	+ 6.0	7.0	15.1	19.0	20.3
50	45'	0	15'	20'	50'

579.8	573.9	567.8	559.8	549.5	546.3	542.4
+ 18.6	+ 13.7	+ 8.6	1.4	11.7	19.0	18.8
50'	25'	12'	0	20'	40'	50'

558.8	551.7	549.7	536.4	529.3
+ 8.4	+ 1.3	6.7	14.0	21.1
57'	50'	0	28'	50'

589.61

64+00

1278 526.83

0.70527.53

64+50

64+60

1229 515.30

1.64516.24

64+80

64+90

65+00

65+15

11.03 505.91

482 510.73

LT				
544.9	539.6	525.9	519.5	512.8
+ 5.3	0.0	13.2	20.1	26.8
50	38	0	16	50

539.2	526.7	519.7	510.7	504.6
+ 11.7	0.8	7.8	16.8	22.9
50	30	0	30	50

517.6

9.9

509.2

7.7

510.6

6.3

517.7	508.7	507.7	505.1	493.5	493.1
+ 0.8	10.0	20.5	11.8	23.4	29.8
50	6	0	17	37	50

504.5

20.0 back
12.4

540.73
65+50

65+75

65+75?

11.56 499.17

1.72 560.89

12.26 488.63

7.60 493.23

66+00

12.11 481.12

0.40 481.52

12.61 468.91

0.08 468.79

66+50

66+80

LT			←	RT		
508.7	506.2	499.9	501.2	495.9	492.2	485.1
2.9	4.5	10.8	9.5	4.8	18.5	25.6
50'	40'	20'	0	10'	25'	50'

500.1

10.6

491.1

4.2 1.5 15.1 19.6

486.3	498.4	478.1	479.8	475.7	472.1
6.9	4.8	15.1	13.4	17.5	21.1
50'	37'	10'	0	30'	50'

476.7	470.9	462.7	465.0	460.3
+ 7.7	+ 1.2	5.3	2.0	8.7
50'	30'	0	25'	50'

461.4

25' above 40' rock

2.6

468.99

10.45 458.54

0.51 459.05

67+00

67+50

9.44 454.61

4.60 459.21

68+00

68+50

69+00

69+50

70+00

LT L RT

467.3	462.6	455.6	456.0
+ 8.2	+ 3.5	ROCK CLUSTER	
50	35	3.5	3.1
		0	50
456.9	457.8	453.7	453.0
2.2	1.3	5.4	6.1
50	45	0	30
			50

453.9	453.8	454.1
5.3	5.4	5.1
50	0	50

453.6	454.1	454.3
TOE ROCK DUMP		
5.6	5.1	3.9
50	0	50

454.3	454.2	454.6
TOE ROCK DUMP		
4.9	5.0	4.6
10	0	50

454.4	454.5	455.0
TOE ROCK DUMP		
4.8	4.7	4.2
15	0	50

454.6	454.9	454.5
4.6	4.3	4.7
20	0	50

959.21

70 + 50

70 + 58

342 455.79

10.12 467.91

70 + 75

71 + 00

71 + 20

71 + 50

7.03 460.88

9.29 461.12

71 + 65

71 + 75

LT E RT

454.5 454.8 453.5

$\frac{4.7}{50}$ $\frac{3.8}{0}$ $\frac{5.7}{50}$

455.1

TOP DIET FILL

$\frac{9.1}{0}$

458.7 466.7 465.4 460.8 556.9

TRE GRADE

$\frac{2.2}{40}$ $\frac{1.2}{20}$

TOP DIET FILL

$\frac{2.5}{0}$ $\frac{7.1}{25}$ $\frac{11.0}{50}$

466.3 465.0 464.5

$\frac{1.6}{25}$ $\frac{2.9}{0}$ $\frac{3.9}{25}$

461.0

$\frac{6.9}{0}$

461.5 461.6 456.6

$\frac{6.4}{25}$ $\frac{6.3}{0}$ $\frac{2.3}{25}$

461.1

$\frac{0.0}{0}$

458.2 458.2 457.5

$\frac{2.0}{25}$ $\frac{2.9}{0}$ $\frac{3.6}{25}$

71+96 161.12

72+65

72+68

73+00

512 456.00

286 458.86

73+50

73+95

74+13

74+50

74+70

74+78

LT R

451.4 451.4 451.4

$\frac{8.7}{25}$ $\frac{8.7}{0}$ $\frac{8.7}{25}$

459.0 453.0 457.1 457.0

$\frac{7.1}{25}$ $\frac{8.1}{0}$ $\frac{9.0}{6'}$ $\frac{4.1}{25}$

452.8 453.9 458.9 458.9

$\frac{8.3}{25}$ $\frac{7.2}{5}$ $\frac{2.2}{0}$ $\frac{2.2}{25}$

456.7 455.6 456.6 457.0 453.6

$\frac{1.8}{25}$ $\frac{5.5}{20}$ $\frac{4.5}{0}$ $\frac{4.1}{8}$ $\frac{7.5}{25}$

455.6 455.6 456.9

$\frac{3.3}{25}$ $\frac{3.3}{0}$ $\frac{3.0}{25}$

454.8 454.7 453.8

$\frac{4.1}{25}$ $\frac{4.6}{0}$ $\frac{5.1}{25}$

WEST EDGE CON. CO.

454.7 454.2 453.8

$\frac{4.2}{25}$ $\frac{3.2}{0}$ $\frac{5.1}{25}$

EAST EDGE CON. CO.

455.9 455.9 454.4 453.9 453.8

$\frac{3.0}{50}$ $\frac{3.0}{28}$ $\frac{4.5}{27}$ $\frac{5.0}{0}$ $\frac{5.1}{25}$

36" VIALAPTUS 8' R

" " 7' R

7 458.86

7 75+00

7 75+30.85

BM

3.30 455.54 - 455.47

7 4.33 459.87

75+50

75+86

76+00

76+29.34 R.O.T. ?

76+76.40 P1 EXISTING & PROPOSED LINE ?

76+ line
Station
See 7B 8/9/54
for correct stat.

7.32 456.55

IT E PT

454.2 453.9 453.9

$\frac{4.7}{25}$ $\frac{5.0}{0}$ $\frac{5.0}{25}$

453.9

FENCE LINE

$\frac{5.0}{0}$

458.9 456.3 453.9 453.9

$\frac{1.0}{37}$ $\frac{4.6}{25}$ $\frac{6.0}{0}$ $\frac{6.2}{41}$ FENCE LINE

454.2

454.1

$\frac{5.7}{0}$

GAS PUMP T.L.

$\frac{5.8}{0}$

COR. GARAGE 2' R

454.6

454.7

454.0

$\frac{5.3}{35}$

$\frac{5.6}{0}$

$\frac{5.0}{20}$

454.8

5.00

455.3

$\frac{7.6}{0}$

reduced by
8/9/54
8-24-54

San Vicente Aqueduct Conn

X Sec Sta. 12+00 to 12+50. OLD STAT

694.50

0.54 695.05

12.94 682.11

0.08 682.19

12.07 670.12

0.56 670.68

12.70 657.98

0.86 658.84

Forward leg
12+00 T.B.M.

7.98 651.36

3.56 654.92

12+50

7.8 647.1

+94

12.5 642.4

13+00

10.0 644.9

+08

6.6 648.3

13+50

4.1 650.8

T.B.M. Sta 10130

LL

RL

646.0	648.0	648.0	650.0	651.4	654.0	656.0	658.0	660.0	662.0	664.0
68	30	10	0	0	13	22	27	33	35	

635.0	637.0	639.0	641.0	643.0	645.0	647.0	649.0	647.0
28	39	20	77	7	0	10	26	48

641.0	643.0	645.0	647.0	649.0	651.0	653.0	655.0	657.0	659.0	661.0
29	36	22	72	3	0	3	10	19	28	37

Wert
Kemp
Holahan

9-14-54

41

654.92
 14+00 T.B.M. 8.00 646.92

16. 26.

654.92
 12+50 7.8 647.1

636.9
 $\frac{30}{}$ 641.9
 $\frac{25}{}$ 647.1
 $\frac{0}{}$ 652.3
 $\frac{20}{}$ 654.0
 $\frac{30}{}$

13+00 10.0 644.9

635.2
 $\frac{30}{}$ 639.1
 $\frac{25}{}$ 644.9
 $\frac{0}{}$ 652.0
 $\frac{25}{}$ 658.1
 $\frac{30}{}$

13+80 4.1 650.8

641.2
 $\frac{30}{}$ 646.3
 $\frac{25}{}$ 650.8
 $\frac{0}{}$ 656.3
 $\frac{25}{}$ 660.9
 $\frac{30}{}$

14+00 T.B.M. 8.00 646.92

637.9
 $\frac{30}{}$ 642.4
 $\frac{25}{}$ 646.9
 $\frac{0}{}$ 647.9
 $\frac{25}{}$ 647.3
 $\frac{30}{}$ 657.3

1.72 648.64

14+15 6.7 640.9

133 6.1 642.5

+50 8.4 640.2

+68 11.1 647.5

0.58 648.06

12.62 660.68

T.P.

10.66 650.02

626.9
 $\frac{30}{}$ 628.6
 $\frac{33}{}$ 631.2
 $\frac{25}{}$ 633.5
 $\frac{28}{}$ 640.2
 $\frac{0}{}$ 646.3
 $\frac{25}{}$ 650.1
 $\frac{30}{}$

T.P. 650.02

12.53 662.55

15+00 13.2 649.3

0.63 661.92

12.04 673.96

15+50 7.8 666.1

0.42 673.54

12.66 686.20

16+00 4.7 681.5

T.M.
P.O.T. 16+19.26 0.54 685.66

12.15 697.81

16+50 8.3 689.5

17+00 1.5 696.3

0.24 697.57

4.72 702.29

17+50 3.5 698.8

LL

692.0 642.0 646.0 648.0 649.3 652.0 654.0 656.0 658.0

50 34 19 10 0 20 35 45 52

657.0 659.0 661.0 663.0 665.0 666.1 669.0 671.0 673.0 675.0 677.0 679.0

79 37 30 20 12 0 11 18 25 33 40 46

668.0 670.0 672.0 674.0 676.0 678.0 680.0 681.5 684.0 686.0 688.0 690.0 692.0 694.0 696.0 698.0 700.0 702.0 704.0 706.0

54 44 36 30 22 13 7 0 6 13 22 30 38 46 53

674.0 676.0 678.0 680.0 682.0 684.0 686.0 688.0 689.5 692.0 694.0 696.0 698.0 700.0 702.0 704.0 706.0

49 44 34 29 21 17 16 6 0 7 11 17 25 30 35 40 46 53

675.0 677.0 679.0 681.0 683.0 685.0 687.0 689.0 691.0 693.0 695.0 696.3 699.0 701.0 703.0 705.0 707.0 709.0 711.0 713.0 715.0

53 47 42 38 32 27 23 20 12 7 3 0 3 9 17 24 32 38 43 48

679.0 681.0 683.0 685.0 687.0 689.0 691.0 693.0 695.0 697.0 698.8 701.0 703.0 705.0 707.0 709.0 711.0 713.0 715.0

53 46 43 38 33 29 26 19 12 7 0 6 10 15 19 24 27 31 37

719.0 722.0

72 71

702.29

17+80 1.9 700.2

18+00 5.0 697.3

12.63 689.66

0.82 689.98

18+25 1.0 689.0

18+35 1.0 689.0

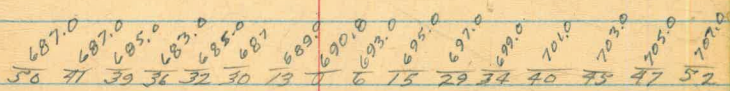
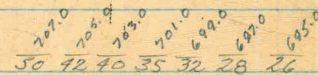
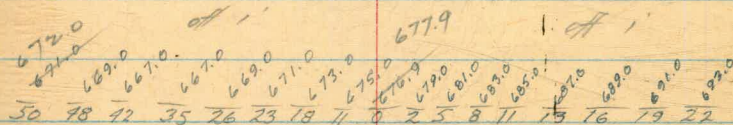
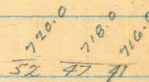
18+55 12.1 677.9
676.9

0.76 689.22

2.87 699.09

18+67.10 Back R+5 9.1 690.8

19+50 Ah. BK Tang.



San Vicente Aqueduct Conn
 Extend X Sec. Sta. 37+50 - 40+50

9/14/54+

Right Side

37+50

722.1
 729.0
 726.0
 728.0
 730.0
 732.0
 734.0
 736.0
 738.0
 740.0
 7 10 18 25 36 46 53 62 72 82

38+00

736.6
 739.0
 741.0
 742.0
 745.0
 747.0
 749.0
 751.0
 752.0

38+50

746.6
 749.0
 751.0
 753.0
 755.0
 757.0
 759.0
 761.0
 763.0
 765.0
 7 11 20 29 38 43 50 58 68 76

39+00

760.5
 753.0
 755.0
 757.0
 759.0
 761.0
 763.0
 765.0
 767.0
 769.0
 7 9 20 27 34 44 51 59 67 75

Back leg
 39+55.84 P.I.

748.9
 751.0
 753.0
 755.0
 757.0
 759.0
 761.0
 763.0
 765.0
 767.0
 769.0
 7 14 24 29 38 45 57 64 73

Right side

40+00

742.0	752.0	754.0	756.0	758.0	760.0	762.0	764.0	766.0	768.0	770.0
0	7	14	23	32	38	45	51	59	67	76

40+50

746.0	749.0	751.0	752.0	754.0	756.0	758.0	760.0	762.0	764.0	766.0
0	8	15	21	28	37	44	48	54	61	68

41+00

742.0	745.0	747.0	749.0	751.0	753.0	755.0	757.0	759.0	761.0	763.0	765.0	767.0	769.0
0	9	18	27	31	37	43	49	57	63	70	76	83	90

785.0	783.0	781.0	779.0	777.0	775.0	773.0	771.0
159	145	135	127	121	112	105	99

41+50

737.0	737.0	739.0	741.0	743.0	745.0	747.0	749.0	751.0	753.0	755.0	757.0	759.0	761.0
0	6	11	17	26	35	42	46	51	57	66	73	84	90

775.0	773.0	771.0	769.0	767.0	765.0	763.0	
149	140	132	125	117	108	102	97

42+00

726.0
0 11 72 23 28 32 40 45 52 59 65 72 79 91 98

42+50

716.0
0 1 15 25 34 40 47 52 62 68 77 87 97 104

43+00

704.0
0 16 24 30 38 47 56 67 76 90 103 112 126

Right Side

769.0
51 742 734 727 718 712 705

752.0
152 743 735 728 720 714.0

735.0
765 746 735

Right side

43+50

692.2
 694.0
 696.0
 698.0
 700.0
 702.0
 704.0
 706.0
 708.0
 710.0
 712.0
 714.0
 716.0
 718.0

5 8 18 29 37 48 56 68 80 88 99 106 115 130

722.0
 720.0
 159 145

48+50

699.3
 698.0
 698.0
 696.0
 694.0
 692.0
 690.0
 688.0
 686.0

0 48 90 115 133 160 173 185 200

50+00

659.7
 658.0
 656.0
 654.0
 654.0
 652.0
 650.0
 648.0
 646.0
 644.0
 642.0
 640.0

0 6 10 16 19 27 34 44 54 64 74 84 111 174 210

51+00

675.4
 674.0
 672.0
 674.0
 676.0
 676.0
 678.0
 680.0
 682.0
 684.0
 686.0

0 12 27 50 69 93 124 130 139 151 163

688.0
 686.0
 180 179

9/17/59

49

11.

26

54100

770.0	768.0	769.0	762.0	760.0	758.0	756.0	754.0	751.6	750.0	748.0	748.0	748.0	740.0	732.0	734.0	736.0	738.0
715	80	72	62	28	36	27	78	0	10	33	40	33	62	69	77	86	

760.0
76

54150

760.0	762.5	765.0	762.0	761.0	760.0	763.0	765.0	767.0
109	80	65	46	0	17	60	36	710

55100

762.0	760.0	759.0	760.0	762.0	764.4	766.0	768.0	770.0	772.0	774.0	774.0	776.0	778.0	780.0	782.0
107	28	80	34	9	2	28	77	39	36	65	81	85	100		

55150

— 11.26 only —

764.8	764.0	762.0	760.0	758.0	756.0	756.0	758.0	760.0
0	2	72	32	30	60	80	90	105

5416 A
55188.63

762.2	760.0	758.0	756.0	755.5	756.0	758.0	760.0
0	23	37	6	66	87	94	104

56150

762.0	764.0	766.0	768.0	760.0	752.0	754.0	756.0
0	6	23	40	33	81	88	100

9/17/54

50

Note: All these sects are left side of E₁₅

57100

730.0	732.0	734.0	736.0	738.0	740.0	742.0	744.0	746.0	748.0
0	10	18	30	38	50	60	70	80	100

57150

719.8	720.0	724.0	726.0	728.0	730.0	732.0	734.0	736.0	738.0	740.0	744.0	
0	8	11	24	30	38	45	52	58	67	79	88	95

58100

715.8	718.0	719.0	720.0	722.0	724.0	726.0	728.0	730.0	732.0	734.0	736.0	738.0	
0	16	21	31	44	55	59	62	71	76	87	88	89	90

58150

705.8	708.0	710.0	712.0	714.0	716.0	726.0	728.0	730.0	732.0	734.0	736.0	738.0
0	14	22	30	40	45	58	64	68	80	88	96	101

59100

700.0	702.0	704.0	706.0	708.0	710.0	712.0	714.0	716.0	718.0	720.0	722.0	724.0	726.0
0	9	18	24	28	39	42	47	50	55	61	66	70	87

728.0

100

R-2
 JAN VICENTE AQUEDUCT CONN
 X-SECT. EXT. 3.

1/2 A (SP16)
 59+31.86 P.L.

60+00.

60+50

64+50 (Left side only)
 RT. 25 turned
 WITH T

65+00

65+25 & on top of 10 yd boulder

65+50

65+70
 65+75

9/17/52

WERT
 KEMP
 ALEXANDER

51

ALL of.
 Note: These are left side of E - 10

59.6 69.0 89.0 102.0 706
 0 10 16 35 45 15' vertical rock wall

663.8 671.0 678.0 682.0 684.0 686.0 688.0 690.0 694.0
 0 5 13 22 28 33 38 44 50 10' vert. rocks

647.5 648.0 650.0 652.0 654.0 656.0 658.0 660.0 662.0 664.0 666.0 668.0 670.0 672.0
 0 3 12 15 19 22 30 37 40 43 49 52 55 65
 680.0 690.0 676.0 674.0
 70 30 83 74

Sept 20 1952

Gearty
 Shorley
 Martell
 Alexander

508. 510. 514. 512. 510. 508. 506. 504. 502. 500. 508. 506. 504. 502. 500. 507.7
 100 94 89 82 80 73 65 51 43 34 28 23 10 5 &

526. 526. 526. 526. 528. 526. 524. 522. 520. 518. 516. 514. 512. 510. 507.7
 100 98 89 80 72 66 60 55 44 35 30 27 23 17 8 &

529. 528. 526. 524. 522. 520. 518. 516. 514. 512. 510. 508. 506. 504. 502. 501. 500. 507.7
 100 91 83 78 76 71 67 63 53 33 18 8 & &

529. 528. 520. 518. 516. 514. 512. 510. 508. 506. 504. 502. 500. 507.7
 100 85 77 72 66 59 52 49 43 39 33 23 14 4 &

509. 512. 510. 508. 510. 506. 506. 504. 502. 500. 498. 496. 494. 492. 490. 488. 500. 500. 507.7
 100 96 91 81 70 61 53 46 33 31 29 27 24 18 13 8 4 &

R-2
 JAN VICENTE AQUEDUCT CONN.
 X-Sections. Ext's

65+76 2 profile only 490.0

66+00

504.6 504 50⁰⁰ 500 498 496 494 490 486 482.6 480.6 479.5 479 478 476 474 472 470 468 466 464 462 460 458 456 454 452 450 448 446 444 442 440 438 436 434 432 430 428 426 424 422 420 418 416 414 412 410 408 406 404 402 400 398 396 394 392 390 388 386 384 382 380 378 376 374 372 370 368 366 364 362 360 358 356 354 352 350 348 346 344 342 340 338 336 334 332 330 328 326 324 322 320 318 316 314 312 310 308 306 304 302 300 298 296 294 292 290 288 286 284 282 280 278 276 274 272 270 268 266 264 262 260 258 256 254 252 250 248 246 244 242 240 238 236 234 232 230 228 226 224 222 220 218 216 214 212 210 208 206 204 202 200 198 196 194 192 190 188 186 184 182 180 178 176 174 172 170 168 166 164 162 160 158 156 154 152 150 148 146 144 142 140 138 136 134 132 130 128 126 124 122 120 118 116 114 112 110 108 106 104 102 100 98 96 94 92 90 88 86 84 82 80 78 76 74 72 70 68 66 64 62 60 58 56 54 52 50 48 46 44 42 40 38 36 34 32 30 28 26 24 22 20 18 16 14 12 10 8 6 4 2

66+50

90
 66+80

{ 469.0 Top 15yd Boulder
 462.5 grd line

497.5 492 490 488 486 484 482 480 478 476 474 472 470 468 466 464 462 460 458 456 454 452 450 448 446 444 442 440 438 436 434 432 430 428 426 424 422 420 418 416 414 412 410 408 406 404 402 400 398 396 394 392 390 388 386 384 382 380 378 376 374 372 370 368 366 364 362 360 358 356 354 352 350 348 346 344 342 340 338 336 334 332 330 328 326 324 322 320 318 316 314 312 310 308 306 304 302 300 298 296 294 292 290 288 286 284 282 280 278 276 274 272 270 268 266 264 262 260 258 256 254 252 250 248 246 244 242 240 238 236 234 232 230 228 226 224 222 220 218 216 214 212 210 208 206 204 202 200 198 196 194 192 190 188 186 184 182 180 178 176 174 172 170 168 166 164 162 160 158 156 154 152 150 148 146 144 142 140 138 136 134 132 130 128 126 124 122 120 118 116 114 112 110 108 106 104 102 100 98 96 94 92 90 88 86 84 82 80 78 76 74 72 70 68 66 64 62 60 58 56 54 52 50 48 46 44 42 40 38 36 34 32 30 28 26 24 22 20 18 16 14 12 10 8 6 4 2

67+00 on Rocks.

481.2 480 478 476 474 472 470 468 466 464 462 460 458 456 454 452 450 448 446 444 442 440 438 436 434 432 430 428 426 424 422 420 418 416 414 412 410 408 406 404 402 400 398 396 394 392 390 388 386 384 382 380 378 376 374 372 370 368 366 364 362 360 358 356 354 352 350 348 346 344 342 340 338 336 334 332 330 328 326 324 322 320 318 316 314 312 310 308 306 304 302 300 298 296 294 292 290 288 286 284 282 280 278 276 274 272 270 268 266 264 262 260 258 256 254 252 250 248 246 244 242 240 238 236 234 232 230 228 226 224 222 220 218 216 214 212 210 208 206 204 202 200 198 196 194 192 190 188 186 184 182 180 178 176 174 172 170 168 166 164 162 160 158 156 154 152 150 148 146 144 142 140 138 136 134 132 130 128 126 124 122 120 118 116 114 112 110 108 106 104 102 100 98 96 94 92 90 88 86 84 82 80 78 76 74 72 70 68 66 64 62 60 58 56 54 52 50 48 46 44 42 40 38 36 34 32 30 28 26 24 22 20 18 16 14 12 10 8 6 4 2

67+50

461.8 460 458 456 454 452 450 448 446 444 442 440 438 436 434 432 430 428 426 424 422 420 418 416 414 412 410 408 406 404 402 400 398 396 394 392 390 388 386 384 382 380 378 376 374 372 370 368 366 364 362 360 358 356 354 352 350 348 346 344 342 340 338 336 334 332 330 328 326 324 322 320 318 316 314 312 310 308 306 304 302 300 298 296 294 292 290 288 286 284 282 280 278 276 274 272 270 268 266 264 262 260 258 256 254 252 250 248 246 244 242 240 238 236 234 232 230 228 226 224 222 220 218 216 214 212 210 208 206 204 202 200 198 196 194 192 190 188 186 184 182 180 178 176 174 172 170 168 166 164 162 160 158 156 154 152 150 148 146 144 142 140 138 136 134 132 130 128 126 124 122 120 118 116 114 112 110 108 106 104 102 100 98 96 94 92 90 88 86 84 82 80 78 76 74 72 70 68 66 64 62 60 58 56 54 52 50 48 46 44 42 40 38 36 34 32 30 28 26 24 22 20 18 16 14 12 10 8 6 4 2

68+00

461 458.0 456 454 453 453.8
 100 95 90 85 50 2
 Toe Rock
 Fill Slope

68+50

479.5 479 454 454.1
 100 85 52 2
 Toe Rock
 Fill Slope

69+00

478 478 477.5 454.5 454.2
 100 75 42 2
 Toe Rock
 Fill Slope

69+50

477.4 477 477.7 475 454.6 454.5
 100 75 46 38 18 2
 Toe Rock
 Fill Slope

70+00

477.9 477.5 454.9 454.9
 100 75 41 2
 Toe Rock
 Fill Slope

9/20/54
 BEATTY
 SHOREY
 MARTELL
 ALEXANDER

R-2
 SAN VICENTE AQUEDUCT CONN.
 X-sects. Extensions

9/20/54

53

Left side only

70+50

270. 2696 4566 4554 455. 4528
 100 91 70 50 43 E
 Toe Rest
 7.11 slope

70+58 Toe dirt fill

70+75

267 265 262 260 266.8 267.5 268.7 267.5 260. 264
 100 84 75 65 50 43 31 14 9 E

71+00

2632 262.5 262.7 263.2 267. 265. 265.4 262 262 261 269.5 260.5 261.
 100 63 56 47 41 E 10 19 25 49 54 65 94 100

71+50

261 262. 262. 261.6 261. 260 258 257.8
 75 50 25 E 50 75 96 100

71+90

252.0 251.4 251.4 251. 250.5 250.
 75 50 E 45 75 100

72+50

2538 2535 2533 2530 254 250.5 250 258 257.8
 75 50 25 E 29 50 70 87 100

72+64

2523 2526 2527 253. 254.3 259. 259 259.2
 75 50 12 2 E 2 50 100

72+66

2525 2526 253. 259 259.1 260 259 259.3
 75 50 4 2 E 34 20 100

73+00

253.4 2544 258. 258. 258. 256.6 257.5 256. 254. 252 254 259.5
 75 65 50 37 20 E 10 14 25 38 95 100

73+25

2561 257. 254 253 254 253
 E 12 25 40 50 100

R-2

9/21/50

54

SAN VICENTE AQUEDUCT. CONN.
X-Sects. EXT'S

73+50

456
25 458.8 458. 460. 4
50 25 50 80 100

73+80

4548 450. 455 456. 454 454
28 50. 73 88 100

10-5-54

San Vicente Aqueduct Connection
Continued to Profile
Continued from F.B. 898A pp. 30

653.36

59+50 8.5 644.86

59+64 14.0 639.36

12.96 640.40

5.14 645.54

59+69 12.6 632.94

12.76 632.78

0.16 632.94

60+00 8.8 624.14

60+13 11.7 621.24

11.62 621.32

0.28 621.60

60+26 6.2 615.40

60+37 8.0 613.60

13.05 608.55

0.63 609.18

60+50 2.2 606.98

These are Final Alignment
Station's
CB

cont from F.B. 898A
pp. 7-30

| | | | |
|-------|--------|-------|--------|
| | 609.18 | | |
| 60+67 | | 12.3 | 596.88 |
| | | 12.22 | 596.96 |
| | 0.99 | | 597.95 |
| 60+82 | | 7.2 | 590.75 |
| | | 13.30 | 584.65 |
| | 2.51 | | 587.16 |
| 61+00 | | 3.8 | 583.36 |
| 61+15 | | 6.9 | 580.26 |
| 61+30 | | 9.2 | 577.96 |
| 61+50 | | 10.1 | 577.06 |
| 61+62 | | 12.7 | 574.46 |
| | | 12.72 | 574.44 |
| | 4.39 | | 578.83 |
| 61+78 | | 8.5 | 570.33 |
| 61+88 | | 10.6 | 568.23 |
| | | 13.26 | 565.57 |
| | 2.17 | | 567.74 |

No. edge 15' x 10' triangle rock 70' high
So. edge rock.

567.74

62+00 6.0 561.74

62+10 10.9 556.84

12.85 554.89

0.00 554.89

62+23 6.2 548.69

62+32 10.3 544.59

11.27 543.62

1.80 545.42

62+38 4.8 540.62

62+50 8.3 537.12

62+83 14.7 530.72

12.28 533.14

0.43 533.57

63+00 4.6 528.97

63+11 6.3 527.27

rock on line 10'x10' base 6' high

63+27 11.0 522.57

12.70 520.87

0.85 521.72

521.72

| | | |
|-------|-------|--------|
| 63+41 | 1.6 | 520.12 |
| 63+45 | 3.7 | 518.02 |
| 63+50 | 4.2 | 517.52 |
| 63+52 | 6.3 | 515.42 |
| 63+60 | 8.5 | 513.22 |
| 63+66 | 9.7 | 512.02 |
| 63+70 | 11.1 | 510.62 |
| | 12.95 | 508.77 |

2.20 510.97

| | | |
|-------|-------|--------|
| 64+00 | 2.8 | 508.17 |
| 64+09 | 4.6 | 506.37 |
| 64+24 | 9.7 | 501.27 |
| 64+29 | 13.1 | 497.87 |
| | 13.19 | 497.78 |

1.04 498.82

| | | |
|-------|------|--------|
| 64+35 | 2.6 | 496.22 |
| 64+50 | 11.0 | 487.82 |

498.82

12.68 486.14

0.33 486.47

64+65 7.1 479.37

64+81 11.0 475.47

12.70 473.77

0.70 474.47

65+00 2.2 472.27

65+12 5.1 469.37

65+24 10.3 464.17

65.35 9.3 465.17

65+50 10.3 464.17

65+58 10.5 463.97

65+70 12.9 461.57

12.40 462.07

1.83 463.10

65+82 6.0 457.10

66+00 7.5 455.60

| | | | |
|----------|--------------|------|--------|
| | 463.10 | | |
| 66+50 | | 10.2 | 452.90 |
| 67+00 | | 9.5 | 452.60 |
| | | 9.55 | 453.55 |
| | 5.97 459.52 | | |
| 67+50 | | 5.6 | 453.92 |
| 68+00 | | 5.4 | 454.12 |
| 68+50 | | 5.6 | 453.92 |
| 69+00 | | 5.2 | 454.32 |
| 69+27 | | 9.7 | 454.82 |
| | | 2.20 | 457.32 |
| | 12.94 469.76 | | |
| 69+50 | | 4.6 | 465.16 |
| P.I. | | | |
| 69+69.58 | | 4.86 | 464.90 |
| | | | |
| 69+88 | | 8.7 | 461.06 |
| 70+00 | | 9.3 | 460.46 |

Toe of sand fill.

Left

| | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|
| 4.6 | 4.0 | 2.9 | 3.4 | 2.5 | 4.5 | 1.0 |
| 0 | 6 | 12 | 77 | 25 | 35 | 85 |

| | | | | |
|-----|-----|-----|-----|-----|
| 2.8 | 4.9 | 3.5 | 2.5 | 2.8 |
| 0 | 6 | 76 | 30 | 40 |

69+69.58

| | |
|-----|-----|
| 9.3 | 9.0 |
| 0 | 50 |

road

469.76

| | | |
|-------|-------|--------|
| 70+23 | 8.2 | 461.56 |
| 70+29 | 6.1 | 463.66 |
| 70+39 | 6.9 | 462.86 |
| 70+43 | 11.4 | 458.36 |
| 70+50 | 11.5 | 458.26 |
| | 11.39 | 458.37 |

3.96 462.33

| | | |
|-------|------|--------|
| 70+63 | 9.5 | 452.83 |
| 71+00 | 10.3 | 452.03 |
| 71+27 | 9.4 | 452.93 |
| 71+32 | 7.6 | 454.43 |
| 71+36 | 3.8 | 458.53 |
| 71+50 | 5.0 | 457.33 |
| | 5.00 | 457.33 |

2.24 459.57

| | | |
|-------|-----|--------|
| 71+77 | 3.4 | 456.17 |
| 72+00 | 3.8 | 455.77 |

So. edge dirt road

| | | | |
|---------------------------------------|--------|--------|--|
| | 459.57 | | |
| 72+14 | 3.4 | 456.17 | |
| 72+31 | 1.3 | 458.27 | |
| 72+37 | 4.7 | 454.87 | |
| 72+50 | 5.0 | 454.57 | |
| 72+65 ⁺⁻ | 5.54 | 454.03 | |
| | 5.46 | 454.11 | |
| 72+83 ⁺⁻ | 5.60 | 453.97 | |
| 73+00 | 5.8 | 453.77 | |
| 73+50 | 6.0 | 453.57 | |
| 74+00 ^{P.O.T.} ₉₄ | 5.9 | 453.67 | |
| 74+50 | 5.8 | 453.77 | |
| 75+00 ₉₅ | 5.0 | 454.57 | |
| | 4.21 | 455.36 | |

No. edge con. pave

" " "

So, " " "

Fence line

Pl. of existing line

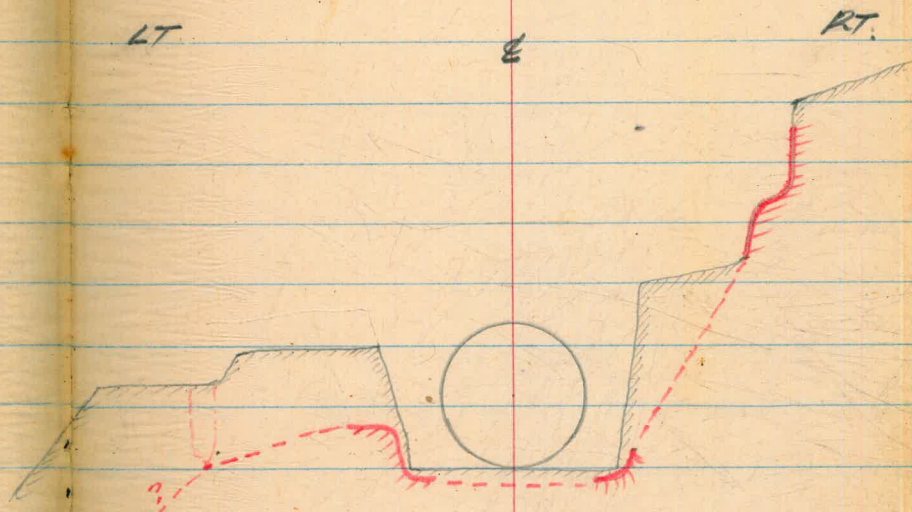
BM on power pole (455.47)

SAN VICENTE
AQUEDUCT CONN.
Cross section at 17+76.90
(Split of π)

April 25 1955
BEATTY
SPOLEY
MARTELL

63

| | | | | | |
|-------------|--------------|--------|--------|------------|----------|
| TBM | 2.22 | 692.23 | 690.01 | 25' RD #16 | 17+76.90 |
| 18' RT | Orig. ground | 6.0 | 686.2 | | |
| 18' RT. | Rock | 8.0 | 684.2 | | |
| 18' RT. | Rock | 10.7 | 681.5 | | |
| 17' RT. | Rock | 11.5 | 680.7 | | |
| ① | 0.02 | 680.20 | 12.05 | 680.18 | |
| 16' RT. | Rock | 2.4 | 677.8 | | |
| 10' RT. | Dirt | 3.9 | 676.3 | | |
| 8' RT. | Rock | 8.8 | 671.4 | | |
| 7' RT. | Dirt | 8.8 | 671.4 | | |
| 6.5' RT. | Rock | 9.9 | 670.3 | | |
| 6' RT. | Dirt | 9.4 | 670.8 | | |
| 5.5' RT. | Rock | 10.2 | 670.0 | | |
| 5' RT. | Dirt | 9.6 | 670.6 | | |
| 4' RT. | Dirt | 9.7 | 670.5 | | |
| 4' LT. | Rock | 10.4 | 669.8 | | |
| 5' LT. | Dirt | 9.3 | 670.9 | | |
| 6' LT. | Rock | 9.8 | 670.4 | | |
| 7' LT. | Dirt | 7.7 | 672.5 | | |
| 7.5' LT. | Rock | 8.6 | 671.6 | | |
| 7.5' LT. | Dirt | 6.1 | 674.1 | | |
| 10' LT. | " | 4.9 | 675.3 | | |
| 25' LT. | " | 5.4 | 674.8 | | |
| 30' LT. | " | 7.6 | 672.6 | | |
| 41' LT. | " | 8.5 | 671.7 | | |
| 30' LT. | Rock | 13.2 | 667.0 | | |
| CK 18+38.93 | | 4.58 | 675.42 | -675.60 | |



Reductn. chkd. Angling
4-26-55.

653.36

59+50

8.5

59+64

14.0

12.96 640.40

514 695.54

59+69

12.6

12.76 632.78

0.16 632.94

60+00

8.8

60+13

11.7

11.62 621.32

765.66

+ 0.89
766.55

BM 3.34 458.81 455.47

Top pipe 13.20 445.41

Top MH 17.97 445.89

on Conc part 4.66 454.15

460.87
5.08
455.79

475.

1305
13

179.59
39.21

140.78
70.39

5.89

39.25
9.50

29.75

Please Return to
City of San Diego Water Dept.
Room 903 Civic Center

9.0
3.1

5.9

733.14
13.17

719.97

42.18
53.23

8.95

455.97
420.44

180.3

956.54
55.42

1.97

63.83
53.47

8.36

179.59
14.16

165.43
82

153.70

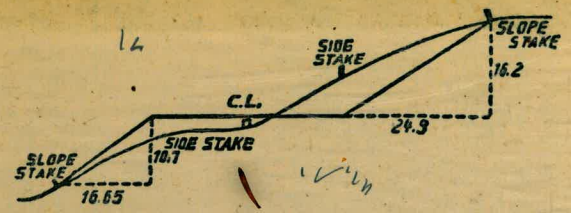
760
50

710
25

685

260
320

435



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.
SLOPE 1 1/2 TO 1. ROADWAY OF ANY WIDTH.

| | 0 | .1 | .2 | .3 | .4 | .5 | .6 | .7 | .8 | .9 | |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| 0 | 0.00 | 0.15 | 0.30 | 0.45 | 0.60 | 0.75 | 0.90 | 1.05 | 1.20 | 1.35 | 0 |
| 1 | 1.50 | 1.65 | 1.80 | 1.95 | 2.10 | 2.25 | 2.40 | 2.55 | 2.70 | 2.85 | 1 |
| 2 | 3.00 | 3.15 | 3.30 | 3.45 | 3.60 | 3.75 | 3.90 | 4.05 | 4.20 | 4.35 | 2 |
| 3 | 4.50 | 4.65 | 4.80 | 4.95 | 5.10 | 5.25 | 5.40 | 5.55 | 5.70 | 5.85 | 3 |
| 4 | 6.00 | 6.15 | 6.30 | 6.45 | 6.60 | 6.75 | 6.90 | 7.05 | 7.20 | 7.35 | 4 |
| 5 | 7.50 | 7.65 | 7.80 | 7.95 | 8.10 | 8.25 | 8.40 | 8.55 | 8.70 | 8.85 | 5 |
| 6 | 9.00 | 9.15 | 9.30 | 9.45 | 9.60 | 9.75 | 9.90 | 10.05 | 10.20 | 10.35 | 6 |
| 7 | 10.50 | 10.65 | 10.80 | 10.95 | 11.10 | 11.25 | 11.40 | 11.55 | 11.70 | 11.85 | 7 |
| 8 | 12.00 | 12.15 | 12.30 | 12.45 | 12.60 | 12.75 | 12.90 | 13.05 | 13.20 | 13.35 | 8 |
| 9 | 13.50 | 13.65 | 13.80 | 13.95 | 14.10 | 14.25 | 14.40 | 14.55 | 14.70 | 14.85 | 9 |
| 10 | 15.00 | 15.15 | 15.30 | 15.45 | 15.60 | 15.75 | 15.90 | 16.05 | 16.20 | 16.35 | 10 |
| 11 | 16.50 | 16.65 | 16.80 | 16.95 | 17.10 | 17.25 | 17.40 | 17.55 | 17.70 | 17.85 | 11 |
| 12 | 18.00 | 18.15 | 18.30 | 18.45 | 18.60 | 18.75 | 18.90 | 19.05 | 19.20 | 19.35 | 12 |
| 13 | 19.50 | 19.65 | 19.80 | 19.95 | 20.10 | 20.25 | 20.40 | 20.55 | 20.70 | 20.85 | 13 |
| 14 | 21.00 | 21.15 | 21.30 | 21.45 | 21.60 | 21.75 | 21.90 | 22.05 | 22.20 | 22.35 | 14 |
| 15 | 22.50 | 22.65 | 22.80 | 22.95 | 23.10 | 23.25 | 23.40 | 23.55 | 23.70 | 23.85 | 15 |
| 16 | 24.00 | 24.15 | 24.30 | 24.45 | 24.60 | 24.75 | 24.90 | 25.05 | 25.20 | 25.35 | 16 |
| 17 | 25.50 | 25.65 | 25.80 | 25.95 | 26.10 | 26.25 | 26.40 | 26.55 | 26.70 | 26.85 | 17 |
| 18 | 27.00 | 27.15 | 27.30 | 27.45 | 27.60 | 27.75 | 27.90 | 28.05 | 28.20 | 28.35 | 18 |
| 19 | 28.50 | 28.65 | 28.80 | 28.95 | 29.10 | 29.25 | 29.40 | 29.55 | 29.70 | 29.85 | 19 |
| 20 | 30.00 | 30.15 | 30.30 | 30.45 | 30.60 | 30.75 | 30.90 | 31.05 | 31.20 | 31.35 | 20 |
| 21 | 31.50 | 31.65 | 31.80 | 31.95 | 32.10 | 32.25 | 32.40 | 32.55 | 32.70 | 32.85 | 21 |
| 22 | 33.00 | 33.15 | 33.30 | 33.45 | 33.60 | 33.75 | 33.90 | 34.05 | 34.20 | 34.35 | 22 |
| 23 | 34.50 | 34.65 | 34.80 | 34.95 | 35.10 | 35.25 | 35.40 | 35.55 | 35.70 | 35.85 | 23 |
| 24 | 36.00 | 36.15 | 36.30 | 36.45 | 36.60 | 36.75 | 36.90 | 37.05 | 37.20 | 37.35 | 24 |
| 25 | 37.50 | 37.65 | 37.80 | 37.95 | 38.10 | 38.25 | 38.40 | 38.55 | 38.70 | 38.85 | 25 |
| 26 | 39.00 | 39.15 | 39.30 | 39.45 | 39.60 | 39.75 | 39.90 | 40.05 | 40.20 | 40.35 | 26 |
| 27 | 40.50 | 40.65 | 40.80 | 40.95 | 41.10 | 41.25 | 41.40 | 41.55 | 41.70 | 41.85 | 27 |
| 28 | 42.00 | 42.15 | 42.30 | 42.45 | 42.60 | 42.75 | 42.90 | 43.05 | 43.20 | 43.35 | 28 |
| 29 | 43.50 | 43.65 | 43.80 | 43.95 | 44.10 | 44.25 | 44.40 | 44.55 | 44.70 | 44.85 | 29 |
| 30 | 45.00 | 45.15 | 45.30 | 45.45 | 45.60 | 45.75 | 45.90 | 46.05 | 46.20 | 46.35 | 30 |
| 31 | 46.50 | 46.65 | 46.80 | 46.95 | 47.10 | 47.25 | 47.40 | 47.55 | 47.70 | 47.85 | 31 |
| 32 | 48.00 | 48.15 | 48.30 | 48.45 | 48.60 | 48.75 | 48.90 | 49.05 | 49.20 | 49.35 | 32 |
| 33 | 49.50 | 49.65 | 49.80 | 49.95 | 50.10 | 50.25 | 50.40 | 50.55 | 50.70 | 50.85 | 33 |
| 34 | 51.00 | 51.15 | 51.30 | 51.45 | 51.60 | 51.75 | 51.90 | 52.05 | 52.20 | 52.35 | 34 |
| 35 | 52.50 | 52.65 | 52.80 | 52.95 | 53.10 | 53.25 | 53.40 | 53.55 | 53.70 | 53.85 | 35 |
| 36 | 54.00 | 54.15 | 54.30 | 54.45 | 54.60 | 54.75 | 54.90 | 55.05 | 55.20 | 55.35 | 36 |
| 37 | 55.50 | 55.65 | 55.80 | 55.95 | 56.10 | 56.25 | 56.40 | 56.55 | 56.70 | 56.85 | 37 |
| 38 | 57.00 | 57.15 | 57.30 | 57.45 | 57.60 | 57.75 | 57.90 | 58.05 | 58.20 | 58.35 | 38 |
| 39 | 58.50 | 58.65 | 58.80 | 58.95 | 59.10 | 59.25 | 59.40 | 59.55 | 59.70 | 59.85 | 39 |
| 40 | 60.00 | 60.15 | 60.30 | 60.45 | 60.60 | 60.75 | 60.90 | 61.05 | 61.20 | 61.35 | 40 |
| 41 | 61.50 | 61.65 | 61.80 | 61.95 | 62.10 | 62.25 | 62.40 | 62.55 | 62.70 | 62.85 | 41 |
| 42 | 63.00 | 63.15 | 63.30 | 63.45 | 63.60 | 63.75 | 63.90 | 64.05 | 64.20 | 64.35 | 42 |
| 43 | 64.50 | 64.65 | 64.80 | 64.95 | 65.10 | 65.25 | 65.40 | 65.55 | 65.70 | 65.85 | 43 |
| 44 | 66.00 | 66.15 | 66.30 | 66.45 | 66.60 | 66.75 | 66.90 | 67.05 | 67.20 | 67.35 | 44 |
| 45 | 67.50 | 67.65 | 67.80 | 67.95 | 68.10 | 68.25 | 68.40 | 68.55 | 68.70 | 68.85 | 45 |
| 46 | 69.00 | 69.15 | 69.30 | 69.45 | 69.60 | 69.75 | 69.90 | 70.05 | 70.20 | 70.35 | 46 |
| 47 | 70.50 | 70.65 | 70.80 | 70.95 | 71.10 | 71.25 | 71.40 | 71.55 | 71.70 | 71.85 | 47 |
| 48 | 72.00 | 72.15 | 72.30 | 72.45 | 72.60 | 72.75 | 72.90 | 73.05 | 73.20 | 73.35 | 48 |
| 49 | 73.50 | 73.65 | 73.80 | 73.95 | 74.10 | 74.25 | 74.40 | 74.55 | 74.70 | 74.85 | 49 |
| 50 | 75.00 | 75.15 | 75.30 | 75.45 | 75.60 | 75.75 | 75.90 | 76.05 | 76.20 | 76.35 | 50 |

THE NATIONAL BLANK BOOK COMPANY
HOLYOKE MASSACHUSETTS
NEW YORK CHICAGO BOSTON SAN FRANCISCO