

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.

MICROFILMED

APR 15 1965

4+25

258
2.67
F0.09

5+75

270
3.01
F0.31

3+94.69 EC

214
2.61
F0.47

5+50

300
2.75
C0.05

3+58.98 BC

207
2.53
F0.46

5+25

260
2.90
F0.30

3+25

171
2.44
F0.73

5+00

260
2.84
F0.24

3+00

171
2.37
F0.66

4+75

275
2.79
F0.04

2+75 LEC

167
2.29
F0.62

4+50

264
2.73
F0.09

6+83.27 Ec. Cb Ret

296
3.24
F0.28

#3

187
3.58
F 1.71

#2

307
3.26
F0.19

#2

278
3.51
F 0.73

#1 End Cb.

235
3.33
F0.98

#1

334
3.45
F0.116+40.27 2E Rad. Pt.
End Island293
3.15
F0.22

7+43.24 B.C.

320
3.38
F0.18

6+25

289
3.12
F0.23

7+25

333
3.33
GRADE

6+00

274
3.06
F0.32

7+00

321
3.28
F0.07

8+08.77 PRC

322
3.34
F0.32

#1 PRC End cb

367
3.91
F0.24

#3 PCC

347
3.55
F0.08

#3 End cb

301
3.90
F0.89

#2

328
3.75
F0.47

#2

323
3.81
F0.58

#1 End cb

317
3.80
F0.63

#1 PCC

353
3.74
F0.21

#5 PRC End cb

288
3.70
F0.82

8+51.41 EC, R2

299
3.62
F0.63

#4

231
3.65
F1.34

8+28.50 EC

295
3.57
F0.62

9+8.03 EC Ret

3.90
280
F 1.10

10/22.11 EC

3.99
360
F 0.39

9+50

3.83
377
F 0.06

#2

3.96
385
F 0.11

9+25

3.99
3.78
C 0.21

#1

4.01
381
F 0.20

9+08.50 EC Ret

3.06
3.75
F 0.69

BC End cb

4.11
356
F 0.55

Checked

Drive #3

#3

3.85
3.80
C 0.05

EC End cb

4.11
371
F 0.40

#2

3.97
3.85
C 0.12

Midpt.

4.00
375
F 0.25

BC End cb.
Drive #2

4.34
400
F0.34

Ret
11+72.61 PRC

4.32
415
F0.17

712 End cb

4.32
418
F0.14

11+63.52 BC

4.30
352
F0.78

EC

4.20
390
F0.30

11+50

4.26
380
F0.46

Mid pt

4.15
375
F0.38

EC^{BC} 11+25.33

4.21
372
F0.49

10+80.95 BC Ret

4.12
356
F0.56

#2

4.20
401
F0.19

10+50

4.05
307
F0.98

#1

4.27
395
F0.32

12+25

4.45
413
F0.32

13+75

4.78
458
F0.20Ret
EC. 12+04.364.40
364
F0.76

13+50

4.72
428
F0.44

Midpt.

4.96
440
F0.06

13+25

4.67
461
F0.06End
BC BA4.56
446
F0.10

13+00

4.62
435
F0.27

Drive #1

EC End ch

4.41
439
F0.02

12+75

4.56
436
F0.20

Midpt.

4.34
424
F0.10

12+50

4.51
440
F0.11

15215 R at Ground

606
5.10
C 0.96

15400

5.06
4.96
F 0.10

14475

5.35
4.99
C 0.36

14450

4.98
4.94
C 0.04

14425

4.88
4.81
F 0.07

14400

4.83
4.66
F 0.17

Roberts
Cota
Alvarez
5-18-53

Grade stakes For Sewer Lot A, BK. 1
Las Alturas No. 2

W.O. 62317

106142 FB 200579 78

GRADE 146.94 Rod

1430 DE.

Stub Elev 153.37

C 6.43

1400

15291

146.64

C 6.27

0+75

15271

146.39

C 6.32

0+50

15307

146.14

C 6.93

0+23

15287

145.89

C 6.98

N.H. 1 2335
0+00 over Exst. Sewer

15273

145.64

C 7.29

TBM

14411 INVERT

N.H. 532 $\frac{1}{2}$ Alley

Roberts
Cota
Moore
Morales
5-22-53

Grade Stakes For Curb
Grand Avenue
at Mission Bay High School

VLD #62261

9662-L

10

0+75

5.71

552

F0.19

~~5.05~~

397

F1.08

Ec plus

135'

Q Rad Pt

0+72

~~5.52~~

511

F0.41

Lt
0+50

5.63

524

F0.39

5.06

420

F0.86

EC

Rt
0+70

595

523

C0.72

BC

Lt
0+30

5.58

508

F0.50

5.07

408

F0.99

#2

605

519

C0.86

#1

Lt
0+10

5.56

489

F0.67

5.08

393

F1.15

#1

605

515

C0.90

#2

West
0+00
END

5.57

450

F1.07

5.08

380

F1.28

BC

510

EC

511

1785

~~6.03~~
~~599~~

6.64
551
F1.13

~~6.06~~
~~5.61~~

3+25

675
650
C0.25

7.11
603
F1.08

662
618
C0.77

1775

6.03
599
F0.04

~~6.06~~
~~5.61~~

606
5.61
C0.75

3+00

654
6.42
C0.12

7.63
588
F1.15

613
6.09
C0.04

1750

5.95
579
F0.16

6.22
555
F0.67

5.52
541
F0.11

2+75

643
6.34
C0.09

6.94
580
F1.14

641
5.99
C0.42

1725

5.87
563
F0.24

~~6.06~~
~~5.61~~

605
5.42
C0.63

2+50

626
623
F0.03

6.86
582
F1.07

649
5.90
C0.59

1715

~~6.03~~
~~599~~

5.80
527
F0.53

~~6.06~~
~~5.61~~

2+25

6.19
606
F0.13

6.77
592
F0.85

637
5.80
C0.57

1700

5.79
569
~~F0.0~~
F0.10

5.70
564
F0.06

646
5.33
C1.13

2+00

6.11
590
F0.21

6.69
567
F1.02

609
5.71
C0.38

5+00
7.07
638
F0.69

~~7.07~~~~638~~

4+75
7.01
6.98
C 0.03

~~7.01~~~~6.98~~

4+50
6.90
676
F0.14

7.54
620
F 1.34

6.67
600
F0.67

4+25
7.05
6.82
C 0.23

7.45
641
F 1.04

6.57
613
F0.74

4+00
6.74
660
F0.14

7.37
645
F0.92

6.47
621
F0.26

3+75
6.98
6.66
C 0.32

7.28
640
F0.88

6.37
627
F0.10

4+80

3+50
6.92
6.58
C 0.34

7.20
617
F 1.03

6.51
6.28
C 0.23

21 Rod Pts
4+78

7.64
664
F1.00

7.43
584
F1.59
EC
FWS
13.5

7.15
586
F1.29
E

7.01
632
F0.69
#2

6.88
595
F0.93
#1

6.98
604
F0.74
E

END CONTRACT

5134.25

7.18
665
F0536.98
621
F077

BC

~~7.18~~
2.03
591
F1.12

#1

~~7.18~~
7.08
636
F072

#2

~~7.18~~
7.13
597
F1.16

#3

~~7.18~~
7.18
599
F6.19

EC

Roberts
Cota
Moore
Morales
5-26-53
W.O.#20928

Grade Stakes For Sewer Balboa Park
(Arizona Canyon Replacement)

changed back to line FB2205 p. 20 per
Harry Cole & Cameron.

2131-D

5+00 276.75
255.73
C 21.02

4+75 275.78
255.80
C 19.98

4+50 274.65
255.88
C 18.77

4+25 273.87
255.95
C 17.92

0.3%
4+00 273.52
256.03
C 17.49

3+75 D.M.H. #4 272.76
256.10
C 16.66

BM NWSP
269.95 Upper Arizona

14

6+50 277.86
255.28
C 22.58

6+25 277.50
255.35
C 22.15

6+00 277.24
255.43
C 21.81

5+75 277.31
255.50
C 21.81

5+50 277.35
255.58
C 21.77

5+25 277.17
255.65
C 21.52

	275.70 254.83 C 20.87	9+25	274.61 254.46 C 20.15
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	276.13 254.90 C 21.23	9+00	275.16 254.53 C 20.63
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	276.67 254.98 C 21.69	8+84.49 MH # 7	275.09 254.57 C 20.52
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	277.37 255.05 C 22.32	8+75	275.13 254.61 C 20.52
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	277.93 255.13 C 22.80	8+50	275.35 254.68 C 20.67
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	278.05 255.20 C 22.85	8+25	275.64 254.75 C 20.89
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269.56

10+68.50 ^{Exist} NH

254.02

10+30

270.10
254.08
C 16.02

10+25

271.05
254.16
C 16.89

10+00

271.89
254.23
C 17.66

9+75

272.64
254.31
C 18.33

9+50

273.77
254.38
C 19.39

Roberts
Moore
Craig

Grade Stakes For Berm

Private Street

6-1-53
WD# 62261

5' Back & Berm

9664-L

2+50

2.22
1.72
F 0.80

4+74.62

3.68
0.14
F 3.54

2+00

2.08
1.74
F 0.34

4+44.62 Corner

3.80
0.11
F 3.69

1+50

1.93
1.18
F 0.75

4+03.00 Corner

3.22
-0.51
F 3.73

1+00

1.77
1.20
F 0.59

3+53.86 EC

2.60
2.59
F 0.01

0+50

1.64
1.45
F 0.19

3+38.15 BC

2.63
2.49
C 0.14

0+00

Begin St. So. End

1.50
-1.05
F 2.55

3+00

2.37
1.58
F 0.79

TBM

-0.86

6+00

$$\begin{array}{r} 2.77 \\ 0.84 \\ \hline F 1.93 \end{array}$$

9+00

$$\begin{array}{r} 3.43 \\ 2.50 \\ \hline F 0.93 \end{array}$$
5+76.63
Angle Point
B-om
$$\begin{array}{r} 2.72 \\ 1.16 \\ \hline F 1.56 \end{array}$$

8+50

$$\begin{array}{r} 3.32 \\ 1.95 \\ \hline F 1.37 \end{array}$$

5+56.63

$$\begin{array}{r} 2.78 \\ 0.40 \\ \hline F 2.38 \end{array}$$

8+00

$$\begin{array}{r} 3.21 \\ 1.58 \\ \hline F 1.63 \end{array}$$

5+36.63

$$\begin{array}{r} 2.81 \\ 0.30 \\ \hline F 2.51 \end{array}$$

7+50

$$\begin{array}{r} 3.10 \\ 1.52 \\ \hline F 1.58 \end{array}$$

5+14.62

$$\begin{array}{r} 3.06 \\ 0.26 \\ \hline F 2.74 \end{array}$$

7+00

$$\begin{array}{r} 2.99 \\ 1.15 \\ \hline F 1.84 \end{array}$$

4+94.62

$$\begin{array}{r} 3.23 \\ 0.22 \\ \hline F 3.01 \end{array}$$

6+50

$$\begin{array}{r} 2.88 \\ 1.42 \\ \hline F 1.46 \end{array}$$

11413.66 BC
 3.93
 168
 F 2.25

12+94.97 EC

4.35
 328
 F 1.07

11400
 3.90
 184
 F 2.66

12+80.61 BC

4.30
 262
 F 1.69

10+50
 3.79
 205
 F 1.74

12+50

4.23
 210 TP
 F 2.13

10+00
 3.68
 167
 F 2.01

12+00

4.13
 213
 F 2.00

9+48.49 EC
 3.57
 273
 F 0.84

11+50

4.02
 197
 F 2.05

9+25.48 BC
 3.50
 238
 F 1.12

11+20.92 EC

3.95
 178
 F 2.17

1 16+12± Grand Exst. Curb

5.05

5.07

1 15+50

4.91

374

F 1.17

1 15+00

4.80

378

F 1.02

1 14+50

4.69

398

F 0.71

9 14+00

4.58

376

F 0.82

9 13+50

4.47

318

F 1.29

Roberts
Cota
Moore
Morales
6-2-53

Grade Stakes For Sewer Balboa Park

(Arizona Canyon Replacement)

[Contd From Page 14]

N.O.#20988

3131-D

1+25

27100
263.65
C 7.35

2+75

27378
264.53
C 9.23

1+00

27234
263.50
C 8.84

2+50

27451
264.40
C 10.11

0+75

27215
263.35
C 8.80

2+25

27279
264.25
C 8.54

0+50

27223
263.20
C 9.03

2+00

27271
264.10
C 8.61

0+25

27261
263.05
C 9.56

1+75

27197
263.95
C 8.02

0+00

DWH#4

min }
line }

27290
256.10
C 16.80

27290
262.90
C 10.00

1+50

27141
263.80
C 7.61

				26776
			1+50	25678
				C 10.98
				26608
			1+25	25685
				C 9.23
				26639
			1+00	25693
				C 9.46
		27395		26540
		265.00		25700
3+50.00	NH#5 Shuffle Board Courts	C 8.95	0+75	C 8.40
		27383		26402
		26485		25708
3+25		C 8.98	0+50	C 6.94
		27439		263.96
		26470		257.14
3+00		C 9.69	0+27.90 NH#3	C 6.82
			0700 in other Directions	
			Alley Supra East of Arizona	

3+00
272.22
256.33
C 15.89

2+75
272.02
256.40
C 15.62

2+50
271.07
256.48
C 14.59

2+25
270.59
256.55
C 14.04

3+75.00 DMK #4

256.10
See pg. 21

2+00
270.17
256.63
C 13.54

3+50

273.12
256.18
C 16.94

1+75
269.88
256.70
C 13.18

3+25

273.01
256.25
C 16.76

1+25

262.42
257.64
C 4.78

1+00

262.67
257.54
C 5.130+75.33
Make Conn.
to Existing
west of Alley258.12
Exists

0+75

262.94
257.44
C 5.50

0+50

264.76
257.79
C 6.97

0+50

263.27
257.34
C 5.93

0+25

263.74
259.46
C 6.28

0+25

263.60
257.24
C 6.360+00 MH #3
Upas Alley259.14
Sump

0+00 MH #3

259.14
Sump

2+75
264.09
258.24
C 5.85

2+50
262.83
258.14
C 4.69

2+25
262.00
258.04
C 3.96

2+00
261.45
257.94
C 3.51

3+57.68 Make Connection in Exst. M.H. 260.07 Exists

1+75
261.61
257.84
C 3.77

3+28.65 MH #2
" 0700 to Scout House
Alley E. Upper East of Arnold 267.53
258.45
C 9.08

1+50
262.08
257.74
C 4.34

3+00 265.75
258.34
C 7.41

1+25
26101
~~258.95~~
C 2.06

1+00
26084
~~258.85~~
C 1.99

0+75
26156
~~258.75~~
C 2.81

0+50
26766
~~258.65~~
C 9.01

0+25
26880
~~258.55~~
C 10.25

0+00 NH#2

3+28.65

along upper East of Canal

258.45
Su pg 25

2+42.00 NH#1
At Scout House

2+25

2+00

1+75

1+50

26251
~~259.42~~
C 3.09

26213
~~259.35~~
C 2.78

26149
~~259.25~~
C 2.24

26130
~~259.15~~
C 2.15

26126
~~259.05~~
C 2.21

Add-24

1+24 Make
Conn. to Exit
Alley North of Upas

Plans 257.88
Exists
actual 256.87

0.42
3.00
1.26
25.68
258.13

0+94 BC.

263.77
257.70
C 6.07

9.45
54
999

263.77
347
269.24
999

259.25 - actual + plus 221

0+75

263.96
257.59
C 6.37

259.25
256.87 .056
42/2.38
210
250

0+50

263.78
257.44
C 6.34

0+25

263.47
257.29
C 6.18

0+00 MH #3

257.14
See pg 22

Roberts
Cota
Miralez
6-5-53
NO 20849

Grade Stakes For Drain
Rosecrans & Midway

9414-L

Top Grate

272

272

& Inlet

+ 2.23

- 0.75

1708 Type 5

C 0.49

C 3.49

#6

2.42

147

F 0.95

259

- 1.00

0781

C 3.59

#4

2.40

130

F 1.10

238

- 1.25

0754

C 3.63

#3

2.40

137

F 1.03

221

- 1.50

0727

C 3.71

#2

2.40

129

F 1.11

.199

- 1.75

0700 & Inlet
Type 4

C 3.74

#1 10.76 wly of
Inlet

2.37

182

F 0.55

Grade Stakes For Curb
Rosecrans & Midway

#9

4.1 185

2.35
154
F0.81

#8

200 .04

Meat 240
165
F0.75

#7

2.44
159
F0.85

Roberts
Cota
W. Moore
M. S. Calz
6-15-52
1007275

Rough Grade Sta Res Lita. St.

Asher to Little Field

30

100732

46.74

1+75

42.83 43.33
3937 4230
F 3.4 F 1.0

cb 5514 5.10
3+62.1 BC L. Little Field
4736
46.67
C 1.3

4926
4673
C 2.6

1+55

42.61 43.11
3877 4237
F 3.8 F 0.7

4780
45.70
3+45 BRX
C 1.9

4895
4640
C 2.6

1+35 BC

42.46 42.96
3844 4259
F 4.0 F 0.4

4711
45.05
3+00
C 2.0

4901
4556
C 3.4

1+00

42.24 44.30
3908 42.74
F 3.1 C 1.6

45.24
44.11
2+50
C 1.1

4739
44.61
C 2.8

0+50

42.21 45.41
41.94 42.44
C 0.3 C 3.0

43.45
41.78
2+15 BC
F 1.5

44.27
43.95
C 0.3

cb 5414 5.10
0+13 BC Asher

41.72 44.99
4049 42.22
F 1.2 C 2.8

43.10
40.44
1+95
F 2.7

43.60
42.70
F 0.9

46.74

Lieta, Rough Grade
Tonopah to Asher

22.79

31

10167h

2+50

4205
4141
F 0.6

4316
4236
C 0.8

2+00

4236
4234
GRADE

4359
42.60
C 1.0

1+50

4287
4266
C 0.2

4400
4284
C 1.2

1+00

4387
42.97
C 0.7

4570
43.08
C 2.6

cb) sly side
3+87.10 BC) Asher
41.22
40.40
F 0.8

42.90
41.71
C 1.2

0+50

4342
43.27
C 0.1

4642
43.32
C 3.1

3+50

41.44
40.52
F 0.9

42.01
41.88
C 0.1

cb) nly side
0+13 BC) Tonopah

43.50
43.32
F 0.2

47.3
43.50
C 3.8

3+00

41.76
40.35
F 1.4

42.12
41.89
F 0.2

10.072L

	5016	4702
1+50	47.25 ✓	46.71 ✓
	C 2.9	C 0.3

	4819	4504
1+00	48.29 ✓	45.02 ✓
	45.55	GRADE
	C 2.7	

	EXIST	5159	5125
0+86.57	cb.		

	4707 ✓	4337	5298	5229
0+50	45.15 ✓	42.34 ✓	51.49 ✓	51.19 ✓
	C 3.2	GRADE	0+66.74	C 1.1
			C 1.5	

	4499	4290	5299	5230
0+13.50	42.59 ✓	42.09 ✓	51.40 ✓	50.96 ✓
cb) Fly Side Liota	C 2.4 ✓	C 0.8 ✓	0+46.74	C 1.3
			C 1.59	
			1.6	

	4090	4039	5374	5085
0+21.59	4047	40.40	51.27 ✓	50.60 ✓
cb) Fly Side Bd Liota	F 0.4	GRADE	0+15.00	C 0.3
			C 2.4	

	39.89	3	5273	4930
0+00	39.78	39.39	49.90	49.44 ✓
Wt. Subd	F 0.1	39.16	2+21	F 1.4
		F 0.2	cb) Fly Side Bd Horoni	
			C 2.3 ✓	

	51.60	48.39
2+00	48.95 ✓	47.70 ✓
	C 2.6	F 0.7

Moroni, Rough Grades
Asher to Littlefield

33

10074L

2+62 PVC

5798
5569 5590

6002
58.76 ✓
C 1.2

F 2.3
F 2.1

2+00

56.20
5555
F 0.6

5828
56.96 ✓
C 1.3

cbjly side 5878
3+62.27 BS Littlefield 5855 ✓
F 0.2

64.79
60.80 ✓
C 4.0

1+50

5479
54.78
GRADE

5794
5777
55.52
C 2.3
C 2.4

3+42

5888
5863 ✓
F 0.3

63.07
60.50 ✓
C 2.6

1+00

5431
53.35 ✓
C 0.9

5641
54.08 ✓
C 2.3

3+22

5891
5834 ✓
F 0.6

62.34
60.17 ✓
C 2.1

0+50

5273
51.93 ✓
C 0.8

5420
52.64 ✓
C 1.6

3+02

5892
5883
5877
GRADE
C 0.1

62.14
59.78 ✓
C 2.3

0+13 cbjly side
BS Asher

52.23
50.88 ✓
C 1.3

5374
51.58 ✓
C 2.1

2+82

5841
5845
5761
~~C 0.1~~
GRADE

61.66
59.30 ✓
C 2.4

Morenci, Rough Grades
Tonopah to Asher

34

10166L

2+33	4563 45.21 C 0.4	4591 45.25 ✓ C 0.6	3+87 cb } 95 Side BC } Asher 49.53 47.94 ✓ F 1.6	5085 50.01 ✓ C 0.8
2+13 PK	4546 45.00 C 0.5	4546 45.00 ✓ C 0.5	3+33 EK 4 47.54 46.91 F 0.5 F 0.6	4989 49.92 47.86 C 2.0 C 2.0
1+63	4542 44.63 C 0.8	4528 4542 44.50 C 0.9 C 0.8	3+13 46.90 46.74 F 0.2	4897 47.16 ✓ C 1.8
1+13	4598 45.69 44.25 C 1.4 C 1.7	4547 4546 44.00 C 1.5 C 1.5	2+93 46.37 46.32 F 0.1	7808 47.85 46.54 C 1.3 C 1.5
0+63	4638 43.88 C 2.5	4568 43.67 43.50 C 2.0 C 2.2	2+73 4638 45.95 C 0.4	4744 4704 46.02 C 1.0 C 1.4
0+13 cb } w/ly 2nd P BC } Tonopah	4678 43.50 C 3.3	4570 43.00 ✓ C 2.7	2+53 4608 45.52 C 0.6	4621 45.59 ✓ C 0.7

Roberts
Cote
Moore

Rough Grade Status Broadway

41st to 42nd

6-24-53

W.O.#32131

10151A

2+00 PVC

18112
17404
C 7.1

17354
17188
F 1.6

3+20

17450
17206
C 2.4

17156
17031
F 1.3

1+50

18082
17343
C 7.4

17293
17195
F 1.0

3+00

17503
17285
C 2.1

17235
17114
F 1.2

1+00

17865
17283
C 5.8

17233
17127
F 1.0

2+80

17545
17348
C 2.0

17298
17161
F 1.4

0+50

17648
17223
C 4.3

17173
16981
F 1.9

2+60

17834
17390
C 4.4

17340
17184
F 1.6

0+20

curb BC

17638
17487
C 4.5

17137
16967
F 1.7

2+40

17909
17414
C 5.0

17364
17219
F 1.4

0+00 E.L. 41st

0-60

17100
16904
F 2.0

17264
17080
C 1.8

2+20

18026
17418
C 6.1

17368
17214
F 1.6

B.M

157.66 SWBP 41st & H. Road

4740	16896 16583 ✓ C 3.2	16533 16356 ✓ F 1.7		
4420	16868 16689 ✓ C 1.8	16639 16358 ✓ F 2.8	5480 curb 5C at 42nd	16740 16333 C 4.0 162.85 16233 ✓ F 0.6
4400	16888 16769 ✓ C 1.8	16719 16389 ✓ F 3.3	5420 EVC	16764 16395 ✓ C 3.7 163.45 16237 F 1.1
3780	16934 ✓ 16869 ✓ C 0.6	16819 16692 ✓ F 1.3	5400	16843 ✓ 16425 ✓ C 4.1 163.75 16206 ✓ F 1.7
3760	17080 16987 ✓ C 0.9	16937 16737 ✓ F 2.0	4480	16923 16473 ✓ C 4.5 164.23 16257 ✓ F 1.6
3440	17115 ✓ 17105 C 0.1	17055 16977 ✓ F 0.8	4460	16903 ✓ 16541 C 3.6 164.91 16275 F 2.1

Roberts
Cota
Morales
Morales
6-25-53
W.D.#32121

Rough Grades 41st Street

Broadway to "c"

10152h

0+86

173.31
170.55
F 2.7

17665
173.81
C 2.9

2+50

18505
183.79
C 1.3

18647
184.29
C 2.2

0+66

172.54
170.08
F 2.4

17671
173.04
C 3.7

2+30

18375
182.58
C 1.2

18590
183.08
C 2.8

0+46

171.95
169.81
F 2.2

17405
172.46
C 1.6

1+88

18098
179.64
C 1.7

18472
180.14
C 4.6

0+26

171.55
169.74
F 1.8

17496
172.05
C 2.9

1+46

17670
176.17
F 0.5

17971
177.20
C 2.5

0+10

cb BC

171.31
169.04
F 2.3

17638
171.80
C 4.6

1+26

175.39
171.35
F 4.0

17818
175.89
C 2.3

0+00

N.L. Broadway

1+06

17426
170.65
F 3.6

177.05
174.76
C 2.3

2+90 cb Bc
at "B" St.

185.14
185.05
C 0.1

1968
185.58
C 1.2

2+70

185.13
184.62
C 0.5

186.81
185.12
C 1.7

Roberts
Cota
Moralez
7-7-53
W.O.*

Grade Stakes For Sewer Pennys Store
"T" Alley - Univ. - Wightman - Ray - Grim
City Forces

0.6872 Grade

7' offset to left

1400

354.65
350.63
C 4.02

0+75

354.95
350.46
C 4.49

0+50

355.37
350.29
C 5.08

0+39

ManHole
of "Ts"

355.30
350.22
C 5.08

0+25

355.73
350.12
C 5.61

NEW DE
1741 5' East of
East Line Ray

354.05
350.92 ← Described by
Private Eng.
C 3.13

0+00

EXIT DE

349.95

1725

354.31
350.86
C 3.51

BM

SEBP
351.63 Wightman & Ray

Roberts

Cota
Morales

7-10-53

W.O. # 32131

Grade Stakes for Sewer

41st & Broadway

0+54 Lat ⑥	17211 167.65 ✓ C 4.46	17125 164.64 ✓ C 6.61
0+40	17239 163.90 ✓ C 8.59	17628 167.08 ✓ C 9.20
0+00 EXT'DE	163.52 root	17140 164.36 ✓ C 7.04
415' W. Lat ⑤	17267 168.28 ✓ C 4.39	17059 ✓ 166.92 C 3.67
215' W. Lat ④	16692 162.86 ✓ C 4.06	17146 167.63 ✓ C 9.83
180' W. of W.L. 42 nd Lat ③	16849 ✓ 161.89 C 6.60	17212 164.08 ✓ C 8.04

3+20
17276
166.01 ✓
C 6.75

4+40

17941
168.02
C 11.39

2+80
17175
165.64 ✓
C 6.11

4+34 Lat ⑫ ~~—————~~

18397
174.65
C 9.32

2+69 Lat ③
17123
166.40 ✓
C 4.83 ~~—————~~

4+24 Lat ⑨
18000
173.40
C 6.60 ~~—————~~

2+40
17200
165.26 ✓
C 6.74

4+14 NH #2

17762
166.90
C 10.72

2+14 NH #1
17169 ✓
165.02
C 6.67

4+00

17662
166.76
C 9.86

2+00
17103 ✓
164.92
C 6.11

3+60

17422
166.39
C 7.83

5754 DE

18552
172.92
C 12.60

5720

18429
171.46
C 12.83

4794 Lat ⑩

18506
178.20
C 6.86

4789 Lat ⑩

18580
178.45
C 7.35

4780

18212
169.74
C 12.38

Robert Grade Stakes For Drainage Ditch

Cota Block 1 Emerson Hts

Morales

7-14-53

NO. 21092 4888-B FB2240 pg. 7

1700 2640
2402
C 2.38

0+75 2722
2415
C 3.07

2+25

23.40
GROUND ON E
OK

0+50 2882
2427
C 4.55

2+00

2529
23.52
C 1.77

0+25 2889
2440
C 4.49

1+75

2552
23.65
C 1.87

0+13.58 L. Rt 29.17
24.45
C 4.72

-10' wet

1+50

2549
23.77
C 1.72

0+00 End 24" RMP 24.52 I.E.

1+25

2566
23.90
C 1.76

BM

SEED
36.98 Nat 1/8 36

Sewer Grades

ASHER ST.

7-1753

C.H.S.

Sheet # 10071-L
" " 10074-L

Cota

Be99

Schelin

0+00 = Existing stub
Morena Blvd + Asher.

Stakes 4^{5'} Rt. of ϕ

B.M. = X on M.H.
E.L. = 14.73
F.B. 1836-P62

3+00

26.42
19.31
C 7.11

6+00

28.01

40.62
31.21
C 9.91
39.33
29.77
C 9.56
37.26
28.34
C 8.92

2+50

24.87
17.49 ✓
C 7.38

5+50

26.66

35.20
26.90
C 8.30

2+00

23.37
15.67
C 7.70

5+00

25.31

32.85
25.47
C 7.38

1+50

3.64%

21.58
13.85
C 7.73

4+50

23.96

31.21
24.03
C 7.18

1+00

19.60
12.03
C 7.57

4+00

22.61

29.56
22.60
C 6.96

0+50

17.14
10.21
C 6.93

3+55

3+63.76 M.H. #1
P.O.T.

21.64

28.31
21.31
C 7.00

0+00

8.39

3+50

28.16
21.13
C 7.03

2.70% 2.87%
 Grade + Station changed.
 Error in plan. Sheet # 10071-L
 & 10074-L (circled)

Stake Sewer Lieta St
Btwn Asher & Littlefield

Sewers - cont p 52

Stakes 4' at O.C.E up grade

ESM #3 9799.53 Moreno's Asher St	39.36	48.20 C-9.54	Plug 3740 D.F.	35.07	44.75 C-9.68
9750	38.01	47.85 C-9.84	2195.5	34.60	44.02 C-9.42
9700	36.65	46.69 C-10.04	2145.5	34.07	43.03 C-8.26
8750 -0.872-1.86	35.29	45.40 C-10.11	1195.5 9010.0	33.54	42.50 C-8.26
8700	33.93	44.31 C-10.38	1145.5	33.01	41.93 C-8.92
7750	32.57	42.86 C-10.29	0795.5	32.48	41.61 C-9.13
Lieta St M.H.#2 7727.93 7709.4	31.47	40.59 C-9.12	0745.5	31.95	41.16 C-9.21
BM	46.72	NEBP Littlefield Lieta	ESM #2 0100 Asher + Lieta	31.77	

Roberts
Cota
Walter
7-24-53
No. 32131

Grade Stakes For Water Line
1st & Broadway

46

1495 Water Lateral
on Right (Broadway)
1676²
1674² coll'ed

4450

17247
→ 167.26 ←
C 3.21

1460
16459
161.68
C 2.91

4400 Etc

17264
169.89
C 2.75

1420
16354
160.58
C 2.96

3760

17250
169.79
C 2.51

0780 MC
16291
159.80
C 3.11

3420

17199
169.33
C 2.66

0770 water Lateral
on Right
16401
163⁸⁵
coll'ed

2780

17085
167.91
C 2.94

0740
16257
159.40
C 3.17

0725 Fire Hydrant
on Left
16313
162²⁰
coll'ed

2740

16877
165.72
C 3.05

0700 W. 42nd
16281
158.80
C 4.00

2700

16660
163.54
C 3.06

6+60 west line
41st

17241
167.15
C 3.26

6+00

17065
167.33
C 3.32

5+75 Fire hydrant
on left

171⁵³
171⁴³ Co 19 cc

5+50

17113
168.00
C 3.13

5+40 Water lateral
on left

17204
171⁸⁵ Co 19 cc

5+00

17174
168.63
C 3.11

(4150)

2+16

17787
17415
C 3.12

1+76

17516
172.04
C 3.12

1+36

17272
169.96
C 2.96

0+96

17152
168.61
C 2.91

0+70 Water lateral
on left

17174
171³³ Co 19 cc

0+50 No. Line
Broadway

17220
167.83
C 4.37

0+00

next

3750 So. Line
C" St.

18559
181.81
C 3.78

3720

18416
181.27
C 2.89

2780

18216
179.23
C 2.93

2756

18069
177.55
C 3.14

2746 Water Level
on Right

18038
180²⁸ col¹⁰ ed

COTA
POPE
ACUÑA
MORALES
W.O. # 32131

	LT.	RT.		LT.	RT.
1450	17344 173.43 C 0.01	17330 172.93 C 0.37	2480	17370 173.48 C 0.22	17368 172.98 C 0.10
1425	17332 173.13 C 0.19	17303 172.63 C 0.40	2460	17394 173.90 C 0.04	17340 17335 F 0.05
1400	17294 172.83 C 0.11	17247 172.33 C 0.14	2440	17432 174.14 C 0.18	17364 17357 F 0.07
1375	17276 172.53 C 0.23	17236 172.03 C 0.33	2420	17413 174.18 F 0.05	17368 17360 F 0.09
1350	17250 172.23 C 0.27	17203 171.73 C 0.30	2400 P.V.C.	17404 173.87 F 0.17	17361 173.54 C 0.07
1320 CURB B.C. 41ST	17207 171.87 C 0.20	17137 171.29 F 0.09	1475	17368 173.73 F 0.05	17360 173.23 C 0.37

169.67

	LT.	RT.		LT.	RT.
4+00	167.69 16734 F 0.35	167.29 167.19 C 0.10	5+20 FVC	164.18 163.95 C 0.23	163.88 163.45 C 0.43
3+80	168.74 168.69 C 0.05	168.32 168.19 C 0.13	5+00	164.69 164.25 C 0.44	163.92 163.75 C 0.17
3+60	169.87 16947 F 0.40	169.37 16936 F 0.01	4+80	165.33 164.73 C 0.60	164.23 164.17 F 0.06
3+40	171.05 17091 F 0.14	170.65 170.55 C 0.10	4+60	165.38 165.41 F 0.03	164.91 164.71 F 0.20
3+20	172.18 17206 C 0.12	171.59 171.56 C 0.03	4+40	166.21 165.83 ✓ C 0.38	165.33 165.30 F 0.03
3+00	173.19 172.85 C 0.34	172.60 172.35 C 0.25	4+20	166.91 166.89 C 0.02	166.39 166.33 F 0.06

LT.

RT.

162.33

END CURB

16465
16365
C 1.0016322
16215
C 0.77

#1

16394
16340
C 0.5416316
16270
C 0.46

11' 18"

5480 B.C. AT 17ND16353
16335
C 0.1816320
16285
C 0.35

5450

16365
16355
C 0.1016341
16315
C 0.26

Stake Sewer Lieta St
Asher to Tonopah St
Stake 45 ft up grade

Stake Sewer Morenci St

52

Stakes 45 ft up grade

Line Sly Asher St

Plug
3180 DE

35²⁷ 42⁴¹ C-7¹⁴

Plug DE
3780

40⁸⁸ 45⁸⁶ C-4⁷⁸

3444⁵

34⁹² 42²⁵ C-7³³

3444⁵ 40⁷⁴ 45³⁷ C-4⁶³

3704⁵

34⁵² 42⁰³ C-7⁵¹

3704⁵ 40⁵⁸ 45¹⁹ C-4⁸¹

2154⁵

33⁸² 41⁵⁶ C-7⁵⁴

Line North of Asher St.

2154⁵ 40³⁸ 45⁰⁹ C-4⁷¹

2104⁵

33⁵² 41²⁸ C-7⁷⁶

Plug
1160 DE 43⁵⁷ 55⁴⁷ C-11²⁰

2104⁵ 40¹⁸ 45¹² C-5⁰¹

1754⁵

32⁰² 41⁰⁶ C-8⁰⁴

1754⁵ 42⁴⁴ 54⁷⁵ C-12³¹ 1754⁵ 39⁹⁸ 46⁶⁶ C-6⁶⁸

1704⁵

32⁵² 40⁶⁹ C-8¹⁷

0775⁵ 41³³ 53⁷² C-12³² 1704⁵ 39⁷⁸ 47⁵⁵ C-7⁷⁷

6754⁵

31⁰² 40⁴³ C-8⁴¹

0735⁵ 40²⁹ 51⁶⁰ C-11³¹ 0754⁵ 39⁵⁸ 48⁵² C-8²⁴

ESMH #2
Asher
0+00 Lieta

3147

ESMH #3
Morenci
0+00 Asher

3936

SMH #3
0+00 3936

Roberts
Cota
Moore
Morales

Grade Stakes Water Line
Morenci Street

53

2+50

462
41.9
C 4.3

5+50

50.0

2+00

454
41.2
C 4.2

5+00

53.7
48.6
C 5.1

1+50

454
40.7
C 4.7

4+50.20 ^{slight line}
dike

51.4
47.5
C 3.9

1+00

455
40.2
C 5.3

4+00.20 ^{slight line}
dike

49.3
46.6
C 2.7

6+50

460
39.7
C 6.3

3+50

48.3
44.9
C 3.4

0+00 ^{My Line}
Tonopah

46.9
39.1
C 7.8

3+00

47.4
43.1
C 4.3

8740.1 Spike Connection

610

57.1

C 3.9

8725.6 Sly Lime
Littlefield

609

56.8

C 4.1

8700

594

55.9

C 3.5

7750

577

54.3

C 3.4

7700

562

52.9

C 3.3

6750

556

51.4

C 4.2

6700

Roberts
Cota
Moore
Morales
9-20-53

Curb Stakes 41st Street

Broadway to "C"

W.O.#32131

10152L

Side	Stake #	Address	Notes	Value	Side	Stake #	Address	Notes	Value
S.W. Return	1	17212	0+66	17273	1	17268			
		170.98		17254		172.46			
	2	C 1.14	17196	C 0.19	17296				
			17170		F 0.08				
	1	C 0.26	17207	0+46	17175	1	17266		
			17177		17161		172.46		
	3	C 0.30		0+26	F 0.34	1	C 0.22		
					17167		17266		
	S.E. Return	3	17121	0+10/BC	17155	1	17265		
			17115		C 0.12		C 0.61		
2		F 0.06	17191	C 0.60	17286				
			17131		171.80				
1		17110	0+10/BC	C 0.60	17286				
		170.93			171.80				
2		C 0.17	0+10/BC	C 0.60	C 1.06				
					17222	17325			
3		17097	0+10/BC	C 1.04	17172				
		170.61			171.72				
4	C 0.36	0+10/BC	C 1.04	C 1.53					
				17204	17312				
1	17257	0+10/BC	C 1.00	171.69					
	170.67			171.04	171.69				
3	C 1.90	0+10/BC	C 1.00	C 1.43					
				17227	17312				
PL 41st	1	17029	C 1.00	171.69					
		170.61		171.69					
PL Broadway	PL	170.24	C 1.00	C 1.43					
		C 2.14		170.24	171.69				
		C 0.05							

		17835		18141	18185
END Alley Ret PL	176.46 17241 F 4.05	177.05 C 1.30	2709	18111 C 0.30	18161 C 0.24
Alley EC	176.36 ✓ 17580 F 0.50	176.92 17682 F 0.10	1788	17998 17764 C 0.34	18039 18014 C 0.25
1736 Alley Ret BC	176.06 17591 F 0.15	176.72 176.60 C 0.12	1767	178.17	178.67
1726	17539 17526 F 0.13	17590 175.89 C 0.01	1764 Alley Ret BC	177.97 17771 F 0.26	17868 178.54 C 0.14
1706	17447 17426 C 0.21	174.76 17472 F 0.04	Alley EC	177.75 17760 F 0.15	17864 178.34 C 0.30
0786	17344 17331 C 0.13	173.81 17367 F 0.12	End Alley Ret PL	17918 17785 C 1.33	18268 178.47 C 4.21

End Curb RL^{5.0}"

185.15
18490
F025

18611
185.66
C045

2+70 BC etc

185.05
18497
F008

18578
185.58
C020

2+70

184.65
184.62
C003

185.12
18506
F006

2+50

183.87
183.79
C005

184.29
184.26
F003

2+30

182.81
182.58
C023

183.22
183.08
C014

Roberts

Grade Stakes Water Line Lieta

58

9-20-53

Tonopah to Littlefield

2+50

413
38.6
C 2.7

5+50

419
38.7 39.1
C 3.0

2+00

417
38.9
C 2.8

5+00

415
38.6
C 2.9

1+50

417
39.2
C 2.5

4+50.10 sly line
4.8' hor

410
38.1
C 2.9

1+00

421
39.5
C 2.6

4+00.10 sly line
4.8' hor

40.6
37.9
C 2.7

0+50

423
39.7
C 2.6

3+50

40.7
38.2
C 2.5

N.L.
0+00 Tonopah

426
39.9
C 2.7

3+00

411
38.4
C 2.7

8+25.27 ^{sig line} Littlefield
462
43.0
C 3.2

8+00
454
42.3
C 3.1

7+50
447
41.0
C 3.7

7+00
439
40.1
C 3.8

6+50
429
39.8
C 3.1

6+00
423
39.3
C 3.0

3+60 ^{sig line} M. ketona

3+00

2+50

2+00

1+50

1+00

0+50

0+00 ^{sig line} _{2nd}

Asher Water Line 59

479

45.4

C 2.5

465

43.6

C 3.0

449

41.9

C 3.0

437

40.3

C 3.6

423

38.6

C 3.7

40.6

37.4

C 3.2

39.4

35.8

C 3.6

Roberts
C. A.
Moore
Morales
9-10-53
W.O. #3275

Grade Stake - Curb Delta St.
Tonopah to Asher

5.00
2.00
1.25

60

+0.94

			41.89 → 41.93 F 0.04	2211 42.24 ← F 0.13
1+00	43.00 42.98 C 0.02	43.74 43.08 C 0.66	2+75 42.20 42.09 C 0.12	42.40 42.36 C 0.04
0+75	43.41 43.13 C 0.28	44.12 43.20 C 0.92	2+25 42.34 42.23 C 0.11	42.96 42.48 C 0.48
0+50	43.66 43.28 C 0.38	43.91 43.32 C 0.59	2+00 42.65 42.38 C 0.07	42.99 42.60 C 0.29
0+25	43.83 43.43 C 0.40	44.24 43.44 C 0.80	1+75 42.70 42.53 C 0.17	42.96 42.72 C 0.24
0+13 BC	43.83 43.50 F 0.67	44.16 43.50 C 0.66	1+50 42.84 42.68 C 0.16	43.19 42.84 C 0.35
0+00 PL. Tonopah	43.00 STAKE 43.45 GRADE F 0.41	46.34 43.52 C 2.82	1+25 43.11 42.83 C 0.28	43.39 42.96 C 0.43

#2 → 40.48
40.73
F 0.25 ← 41.82

#1 40.65
41.00
F 0.35 41.70

3+87 BC at Asher 41.08
41.22
F 0.14 41.91
41.71
C 0.20

3+75 41.77
41.33
F 0.16 ~~41.99~~ 41.99
~~42.16~~ 41.77
F 0.77 C 0.22

3+50 41.40
41.48
F 0.08 ~~42.15~~ 42.15
~~42.88~~ 41.88
F 0.73 C 0.27

3+25 41.30
41.63
F 0.33 42.69
42.00
C 0.69

3+00 41.67
41.78
F 0.11 42.29
42.12
C 0.17

Liata
Asher to Littlefield

61

0+25 41.62
41.79
F 0.17 42.38
42.29 41.29
C 0.09

0+13 BC at Asher 41.69
41.72
F 0.03 42.28
42.22
C 0.06

#3 41.58
41.56
C 0.02 42.25

#2 41.53
41.23
C 0.30 41.35

#1 BC on Asher 40.98
40.98
C 0.08 42.59

#3 BC on Asher 40.55
40.40
C 0.15 42.09

START

1755	1230 42.61 F 0.31	43.10 43.11 F 0.01	2+90	4508 44.86 C 0.22	4580 45.36 C 0.44
1735 PNC	4218 42.46 F 0.28	4299 42.96 C 0.03	2+65	4459 44.39 C 0.20	4535 44.89 C 0.46
1725	4227 42.39 F 0.12	4302 41.89 C 1.13	4302 42.89 C 0.13	4385 43.92 F 0.07	4468 44.42 C 0.26
1700	4217 42.24 F 0.07	4302 41.74 C 1.28	4302 42.74 C 0.28	4338 43.45 F 0.07	4404 43.75 C 0.09
0775	4203 42.09 F 0.06	4295 41.59 C 0.36	4295 42.59 C 0.36	4269 43.15 F 1.01	4363 43.68 C 0.03
0750	4204 41.94 C 0.10	4268 41.44 C 0.24	4268 42.42 C 0.24	4221 42.83 F 0.62	4324 43.33 F 0.09

ON Asher

39.13

39.90

21.59 ^{wait 8} Ecker
\$ Lita

So.

39.39
F0.26

No.

39.89
C0.01

#1 Ph.

46.16
45.99
C0.1747.73
47.25
F0.02

3+62.17

B.C. et Lita.

45.54
46.07
F0.3348.15
46.73
C1.72

3+45.17

45.70
45.90
F0.2046.91
46.40
C0.57

3+15

45.46
45.33
C0.1346.27
45.83
C0.44

Roberts
Cota
Moore
Morales
9-11-53
M.O. # 32108

Grade Stakes Alley BIK 69, Park Villas

10307L

32118

0+80 FVC

319.00
318.94
F 0.06

319.25
C 1.93

2+20

323.61
322.83
F 0.78

324.87
323.86
C 1.01

0+60

319.99
317.92
C 2.07

32131
318.17
C 3.14

2+00 FVC

323.20
323.01
C 0.19

325.14
323.26
C 1.88

0+40

319.13
316.03
C 3.10

32020
316.28
C 3.92

1+80

322.34
321.96
F 0.38

324.79
322.59
C 2.20

0+20

316.93
313.31
C 3.62

31457
313.56
C 5.01

1+55

321.51
320.94
F 0.57

323.75
321.76
C 1.99

0+10

315.91
311.75
C 4.16

31854
312.40
C 6.14

1+30

321.84
320.67
C 1.17

323.31
320.92
C 2.39

0+00 Dwight

N. Line

310.48

311.68

1+05

321.56
319.84
C 1.72

322.60
320.09
C 2.51

SEBP

324.01 Dwight &
Pershing

EM

3+55	325.86 324.93 C 0.93	326.46 325.18 C 1.28	4+70	326.91 325.94 F 0.97	327.97 327.17 C 0.70
3+30	325.14 324.80 C 0.34	326.44 325.05 C 1.39	4+50	326.34 326.30 C 0.04	327.49 326.55 C 0.94
3+05	324.68 324.46 F 0.22	327.46 324.93 C 2.53	4+30	326.36 325.70 C 0.66	326.57 326.00 C 0.57
2+80 EK	324.95 324.55 C 0.40	326.63 324.80 C 1.83	4+10	326.09 325.30 C 0.79	326.52 325.65 C 0.87
2+60	324.38 323.67 F 0.71	325.55 324.63 C 0.92	3+90 PVC	325.10 324.71 F 0.39	325.60 325.35 C 0.25
2+40	324.07 322.86 F 1.21	325.51 324.32 C 1.19	3+80	325.05 324.50 F 0.55	325.76 325.30 C 0.46

	32776	33263	
5790	326.60	327.46	
	C 1.16	C 5.23	

	32817	33203	
5770	327.12	327.78	
	C 1.05	C 4.25	

	32933	32963	
5750	327.45	327.98	
	C 1.88	C 1.65	

		32904	
5730	327.60	328.03	
	327.27	C 1.01	
	F 0.33		

		32895	
5710	327.56	327.91	
	327.21	C 1.04	
	F 0.35		

		32892		
4790	327.32	327.62	5799.69	326.29
	326.55	C 1.30	So. Lime Londis	327.17
	F 0.77		✓	

Roberts
Cota
Moore
Morales
9-17-53

WA#32175

Rough Grades Tonopah
Morenci Ely to Paving

10075L

25' st.
7' cft to P.L.

67

0+86.57 Exist
Pav.

40.98

40.95

0+76.57

4515
41.63
C 3.5

41.63

0+66.57

4537
41.94
C 3.4

41.94

0+39.98

4561
42.28
C 3.3

42.28

0+13

8c Morenci

4572
42.62
C 3.1

42.62

Roberts
Cota
Moore
Morales
9-17-53
W.O. # 23679

Rough Grates Montezuma

Campanille Manor #1
Wrong Plans

83496
45541
453.70
2+50
C 1.7

45500
453.24
2+00
C 1.8

45466
452.78
1+50
C 1.9

45274
128
454.06 ← Elev.

45640
454.57
3+95.09
w/3. Bolry.
Camp. Man. #1
C 1.8

45457
126
456.40

45640

45442
452.32
1+00
C 2.1

3+47.36
3+17.36

45585
454.27
C 1.6

45410
451.86
0+50
C 2.2

45736
144
453.30

2+87.36

45541
454.04
C 1.4

45140
0+00 P.L. BC
Campanille

2+75.11

45551
453.93
C 1.6

Roberts
Cota
Moore
Brunner
WO.# 32245

Grade Station Sewer
Littlefield & Knoxville
10197L

9-21-53

17.07

1+15 NA #1

12.70

C 4.37

actual 1+17.5

2+50

1803
13.24
C 4.79

1+0.0

16.76

12.64

C 4.12

2+25

1780
13.14
C 4.66

0+75

16.39

12.54

C 4.05

2+0.0

1782
13.04
C 4.78

0+50

16.56

12.44

C 4.12

1+75

1769
12.94
C 4.75

0+25

16.59

12.34 ✓

C 4.25

1+50

1773
12.84
C 4.89

0+00 Exist DE
Littlefield

16.58

12.24

C 4.34

1+25

1690
12.74
C 4.16

BM

SWEP
1880 Barry & Littlefield

3+75

1882
13.74
C 5.08

3+65 NH #2

1880
13.70
C 5.10

3+50

1829
13.64
C 4.65

3+25

1820
13.54
C 4.66

3+00

1804
13.44
C 4.60

2+75

1874
13.34
C 5.40

4+95 DE

1935
14.22
C 5.13

4+75

1865
14.14
C 4.51

4+50

1859
14.04
C 4.55

4+25

1870
13.94
C 4.76

4+00

1871
13.84
C 4.87

Roberts
Cota
Morse

9-23-53
W.O. #20009

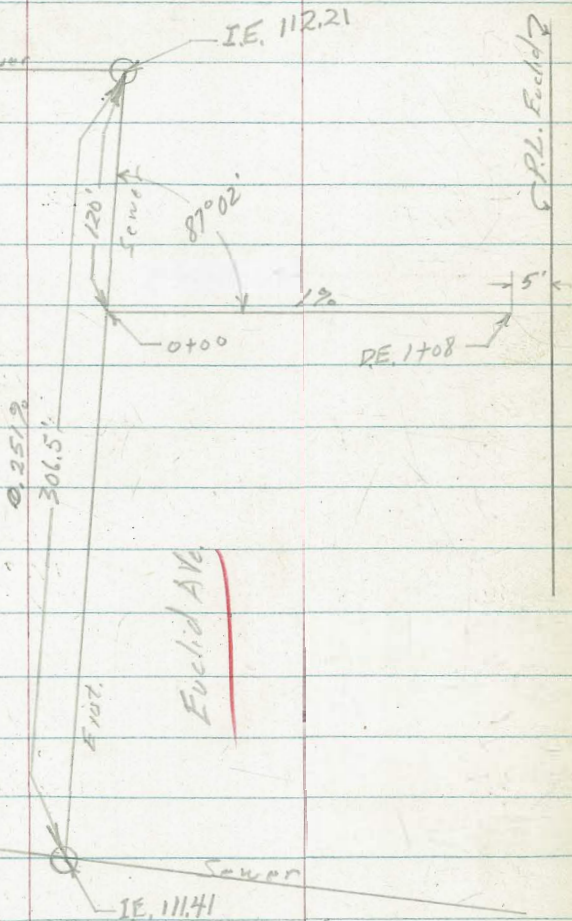
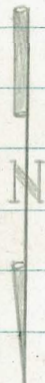
Grade Stakes Sewer in Euclid
South of Logan.
City Forces
Location & Grade per Station
(8" vitrified clay pipe)

Coban St.

Exit Sewer

IE. 112.21

C.P.L. Euclid



0+50 GRD. 118.0

118.09
112.72
C 5.37

0+32 GRD 118.0

0+25 GRD 123.0

122.49
112.47
C 10.02

0+20 GRD. 125.1

0+18 GRD. 125.11

125.574 - cb g
112.40
C 13.19

0+00 GRD 124.5

124.51
112.22 Conn.
C 12.29

Make Conn. Calc. 111.72 IE

EXIST.
Logan

IE. 111.41

Sewer

Ave

BM 111.32

B.P. Headwall Culvert No. side Logan
100' west of Euclid.

1708 DE GRD 118.4
S/E. of Prop.

118.58
113.30
C 5.28

1700 GRD. 118.4

118.52
113.22
C 5.30

0+75 Pav. 112.37

118.34
112.97
C 5.37

0+68 APPROX. & Pav.
Pav. 118.44

118.41
112.90
C 5.51

Roberts
Cota
Moore
Brunner
9-28-53
W.O.32/75

Curb Stakes Asher
Lieta to Morenci

100722

73

0775	4480 4471 C 0.09	4472 4418 C 0.54	EC on Alley	46.16 46.54 F 0.38	4599 4586 F 0.13
0750	4408 4385 C 0.23	4372 4333 C 0.39	PL. End Alley Ret	4787 46.64 C 1.23	4665 46.09 C 0.56
0725	4312 4300 C 0.12	4314 4249 C 0.65	PL. End alley Ret.	4717 46.13 C 1.04	4558 4536 F 0.22
EC cb Ret 0713 on Asher	4259 4256 F 0.03	4308 4209 C 0.99	EC on Alley	4603 4550 F 0.53	4553 4548 C 0.05
#2	4235 4207 F 0.28	4243 4182 C 0.61	Alley Rad. 1710.5 BC on Asher	4592 4550 F 0.42	4553 4537 C 0.16
#1	4225 4222 F 0.03	4217 4170 C 0.47	1700	4556 4556 GRADE	4525 4502 C 0.23

B.C. et
0+13 Morenci

5127
5125
F0.92

50.60
50.34
F0.26

B.C. et
2+27 Morenci

49.90
49.01
F0.89

49.30
48.58
F0.72

2+00

48.97
48.60
F0.37

48.39
47.77
F0.62

1+75

48.12
47.96
F0.16

47.55
47.19
F0.36

Exit 51.57
0+86.74 Curb Actual 51.60

51.25
actual 51.27

1+50

47.26
47.26
GRADE

46.77
46.70
C0.07

0+66.74

5
51.49
51.30
F0.19

51.19
50.91
F0.28

Alley Red
1+29.50 BC on Asher

46.57
46.16
F0.41

46.02
45.86
F0.16

0+46.74

51.46
51.40
C0.06

50.96
50.79
F0.17

Roberts
Cote
Moore
Muralis
10-9-53
No. 23679

Curb Stokes Montezuma
Campanilla Manser
8349L

75

2787.36

45439

45404 ←

C 0.35

1+25

452.55

452.29

F 0.26

275.11

45439

453.93

C 0.46

1+0

452.32

452.15

F 0.17

275.0

453.70

453.64

F 0.06

0+75

452.38

452.09

C 0.29

272.5

453.47

453.21

F 0.26

0+50

451.89

451.86

C 0.03

270.0

453.24

452.61

F 0.63

0+25

451.63

451.47

F 0.16

175

453.01

452.45

F 0.56

0+00 ch. EC

451.40

175.0

452.78

452.45

F 0.33

3795.89 w/8 Bdry.

45507
45457
C0.50

3747.36

45454
45441
C0.13

3717.36

45463
45427
C0.36

Roberts.

Costa

Moore

Moralez

10-20-53

W.O. # 20009

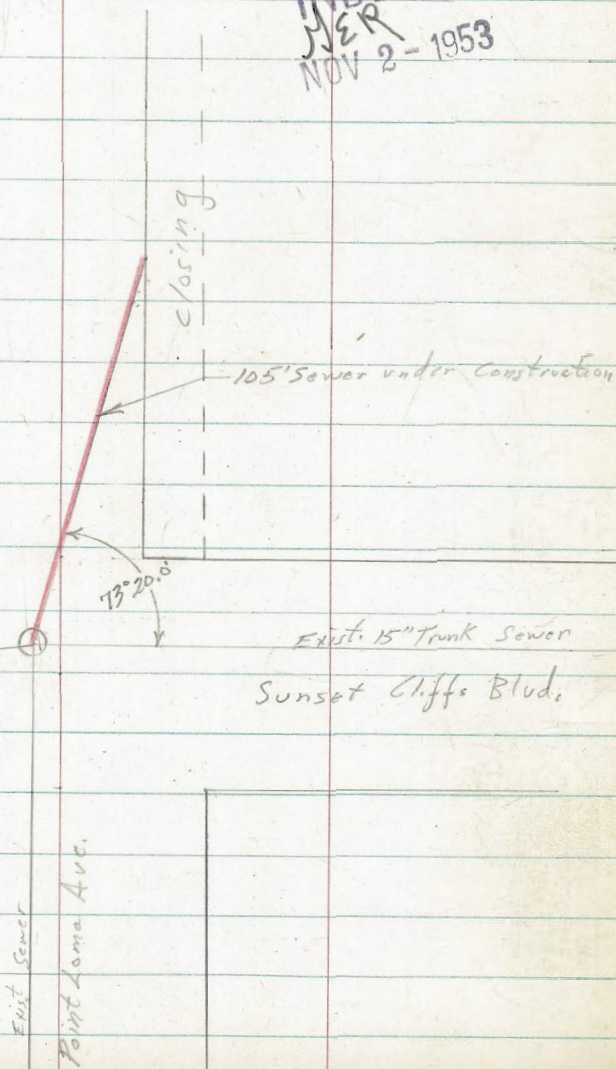
Grade Stakes For Sewer (City Forces)

Point Loma Ave. - Sunset Cliffs Blvd, West

Location & Grade per Station

F.B. 1837 pg 13
1355 D

INDEXED
JER
NOV 2 - 1953



1405 DE

18.45

15.90

C 2.55

1400

18.51

15.86

C 2.65

0+75

18.89

15.69

C 3.20

0+50

19.09

15.51

C 3.58

0+25

19.47

15.34

C 4.13

0+00 Exist MH

15.16

BM SW 72d. & at. Point Loma Ave

20.89

& Sunset Cliffs Blvd.

Roberts
C. Fu
Moore
Mendez
11-27-53
W.O. # 2009

Grade Stakes For Sewer
Marilou & Altadena
City Forces
Grade 2% } per loties
140' Ely }

1440 DE

11406 T
102.80
11.26
1.07
C 10.19

1405

11406 T
102.10
11.96
3.51
C 8.45

6.19

0+70

11406 T
101.40
12.66
5.31
C 7.29

0+35

11406 T
100.70
13.36
6.94
C 6.42

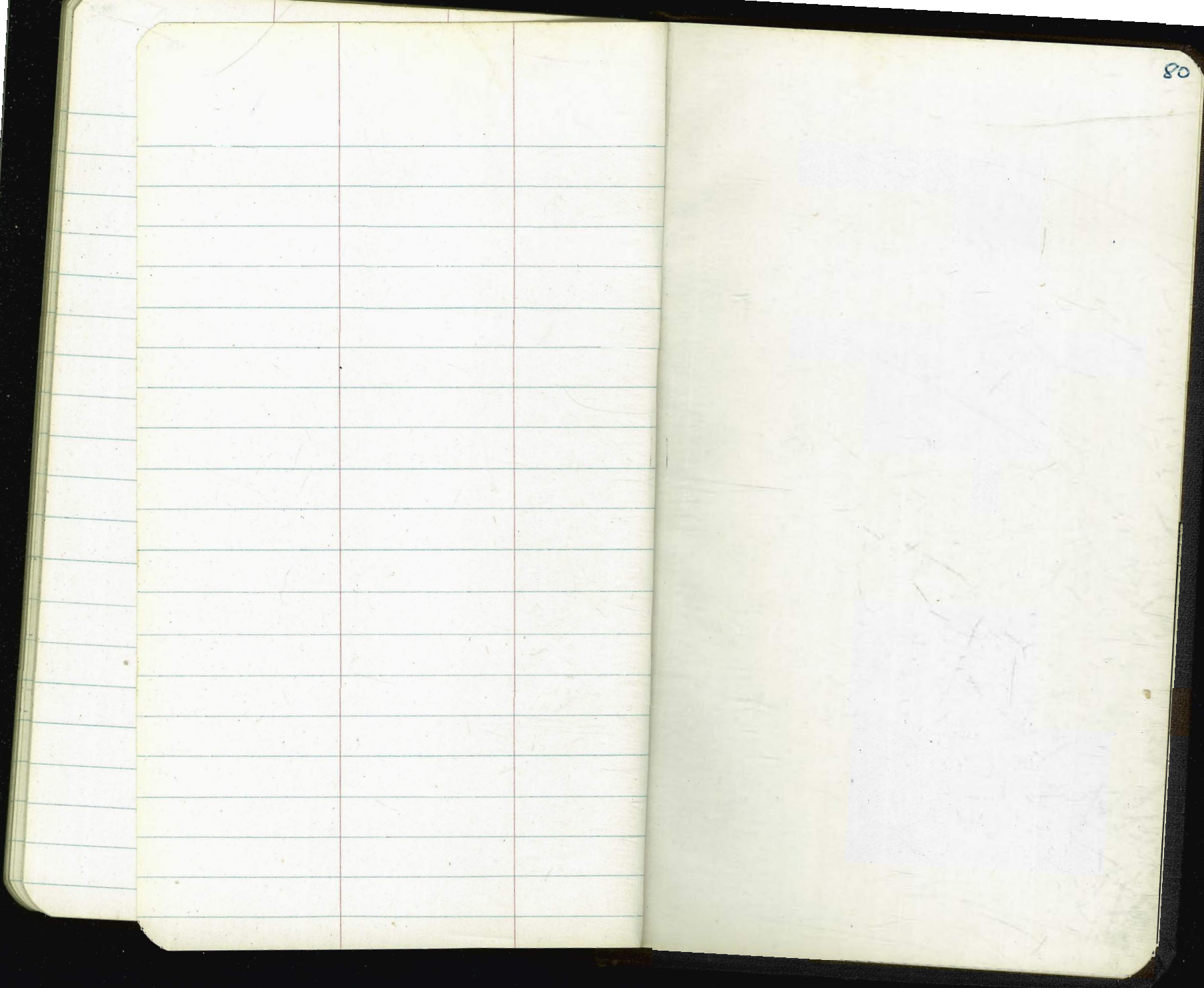
EXISTING
MH Marilou
and Altadena
0+00

100.00 Assumed

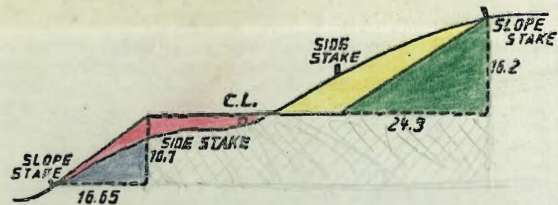
BM 14.06

114.06 T

100.00 INVERT Exist.
MH Assumed



9-308



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

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