

1498

EAST

LEVEL BOOK

No. 530 F

MICROFILMED
DEC 24 1964

ENGINEERING DEPARTMENT,
CITY OF SAN DIEGO,
CALIFORNIA.

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

- No. 380 LEVEL BOOK. Left and Right Hand Page the same as Left Hand Page of this Book.
- No. 382 FIELD BOOK. Left Hand Page as in this Book, Right Hand Page 4 x 4 to the inch, Center Line Red.
- No. 384 MINING TRANSIT BOOK. Left Hand Page as in this Book, Right Hand Page 8x8 to the inch, Center Line Red.
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THE FREDERICK POST CO.
ENGINEERING and DRAFTING SUPPLIES
IRVING PARK STATION
CHICAGO, ILL.

Xsec. of alleys 30' wide
Blks. 21-27 La Jolla Park

Moore
St. 5500
Northpark
5-10-34

NOTE
W. 15' left.

indexed
0.3K.

1

FAY +
Kline 0.66 96.65 95.99 S.E.B.P.
S.W. Fay + Kline

Top ob. return 0.74 95.91
paring gut 1.41 95.24

S.E. Kline + Ends

Top ob. return 5.37 91.28
paring gut 5.87 90.78

00-14

W Top alley return 3.23 93.42

E " " " 2.76 93.89

0+00 = N.L. Kline = Blk. 31 La Jolla Park

E Top return 2.62 94.03

91. 2.8 93.9

E 3.1 93.5

91. 3.3 93.4

W Top return 2.82 93.83

0+41

W-7.5 Conc. floor Gar. 7.12 94.53

W " floor 2.21 94.44

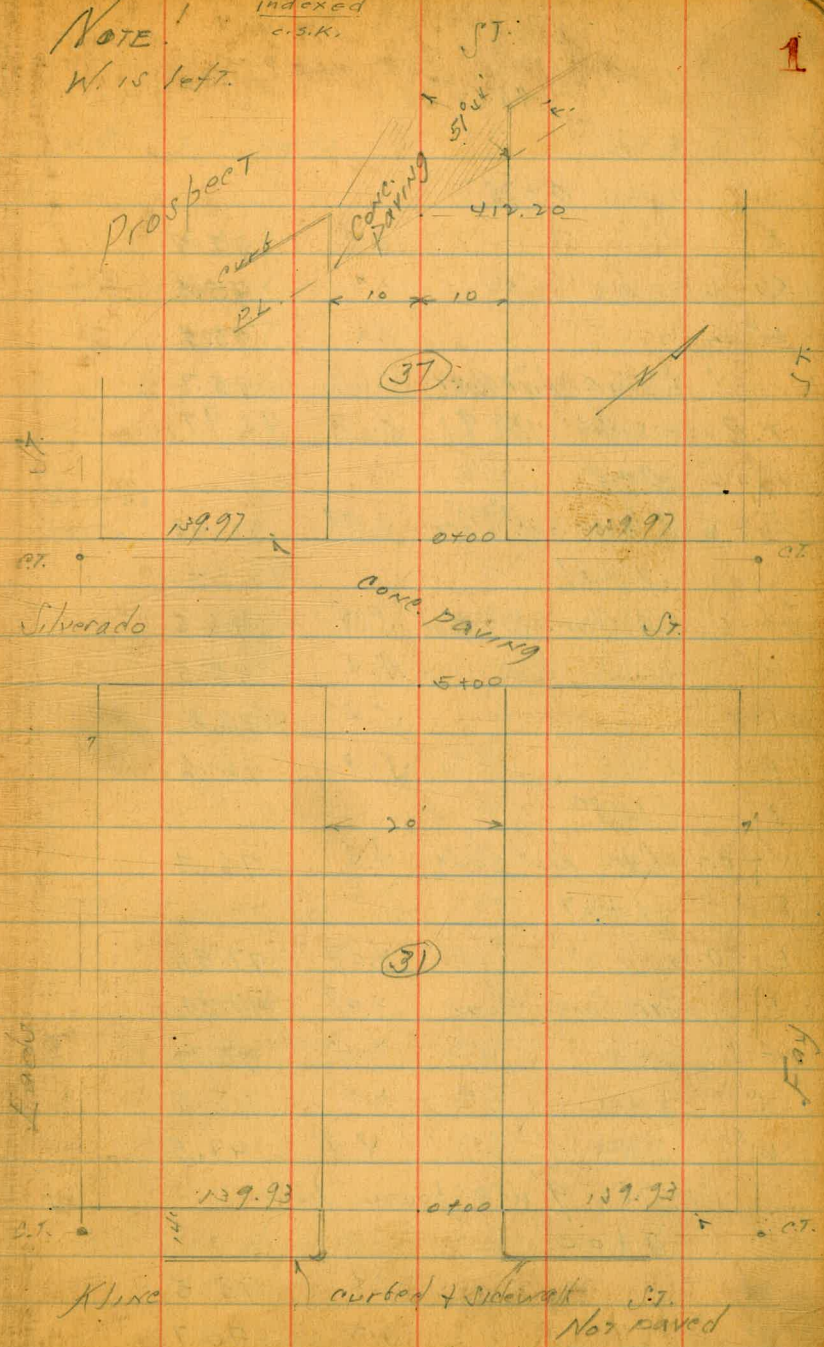
.C 2.7 94.5

+7 2.3 94.4

E 1.7 95.0

0+47 Tel. pole 9'E &

0+51 power pole 9'W &



Kline

curbed + sidewalk ST.
Not paved

96.65

0+25

E	0.8	95.9
C	1.2	95.5
W	1.2	95.5

+4	Gar. dirt floor	1.0	95.7	
T.P.	5.94	101.91	0.68	95.97

0+80

E-6	Double Gar. ^{conc} floor	1.99	96.92	24" wide level
-----	-----------------------------------	------	-------	----------------

1+11

W-6	Gar. dirt floor	5.3	96.6
W		5.4	96.5
C		5.4	96.5
E		5.3	96.6

1+32

W-0.2	Gar. dirt floor	4.5	96.4
-------	-----------------	-----	------

1+43

E-0.6		4.07	97.84
E	Gar. Conc. floor	4.07	97.84
+1		4.12	97.79
C		4.4	97.5
W		4.4	97.5

1+75 9' W pole tower

2+00

W		3.4	98.5
E		3.2	98.7

101.91

2

C + 9	Tel. pole	3.1	98.8
E		3.1	98.8

2+18

W-1	Conc. drive	2.94	98.97	6' wide
-----	-------------	------	-------	---------

2+47

E	4' wide Conc. walk	2.55	99.36
---	--------------------	------	-------

+1		2.9	99.0
----	--	-----	------

C		3.0	98.9
---	--	-----	------

W		3.2	98.7
---	--	-----	------

2+70

W	2' wide Conc. walk	2.91	98.98
---	--------------------	------	-------

2+77	9' W pole tower		
------	-----------------	--	--

2+90

W		3.2	98.7
---	--	-----	------

C		3.2	98.7
---	--	-----	------

E		3.1	98.8
---	--	-----	------

+95	Double Gar. ^{conc} floor	1.82	100.19	24" wide level
-----	-----------------------------------	------	--------	----------------

3+00	9' E Tel. pole		
------	----------------	--	--

3+20

E	4' wide Conc. walk	3.0	98.9
---	--------------------	-----	------

+1		3.3	98.6
----	--	-----	------

C		3.3	98.6
---	--	-----	------

W		3.5	98.4
---	--	-----	------

+18	Gar. dirt floor	3.3	98.6
-----	-----------------	-----	------

3+40

W-12	Double Gar.	3.4	98.5	dirt floor
------	-------------	-----	------	------------

101.91

276

N			4.0	97.9
C			2.8	98.1
E			3.7	98.2
+1	4' wide	conc walk	w. 4	98.5
T.P.	2.11	100.13	3.89	98.02

287

W	2' wide	conc walk	2.10	98.03
	4+00	9' w/ power pole		
	4+50			

E	2' wide	conc walk	1.90	98.23
+1			2.5	97.6
e			2.5	97.6
W			2.6	97.5
	4+35	9'E & Tel. pole		
	4+65			

N			3.0	97.1
C			2.9	97.2
E			2.9	97.2

+1 2' wide conc walk 2.43 97.70
 4+00 = St Silverado

E	Top of		2.79	97.34
E	par.		2.91	97.22
C	"		3.21	96.92
W	"		3.23	96.90
W	Top of		3.14	96.98

100.13

NL Silverado - 0400

W	Top return	3.88	96.25
W	paring	3.96	96.17
C	"	4.00	96.13
E	"	3.59	96.54
E	Top return	3.41	96.72

0404 8' w of 8" Acacia tree

0413 10' " " to E 3' round / generator

0420

E		4.6	95.5
C		4.5	95.6
W		4.7	95.4
+0.5	E 2' Conc. walk	4.07	96.06

0429 8' w of E 16" Acacia tree

0450

W		4.9	95.2
+v	power pole	5.1	95.0
C		5.1	95.0
TS	Tel. pole	4.7	95.4
E		4.7	95.4

0460

E - v 3' wide Conc. walk 4.9x 95.19

0480 9' w of E 10" Acacia tree

E = E 10" Acacia

0482

E		5.6	94.5
C		5.6	94.5
W		5.7	94.4
+v	E 2' wide Conc. walk	5.45	94.68
T.P.	2.94 97.28	5.79	94.34

1417

W-6 doorway 3.68 93.60

W 3.7 93.6

C 3.4 93.9

TS Tel. pole 3.1 94.2

E 3.1 94.2

1426

W-6 Gar. Conc. floor 3.85 93.43

1438

W-6 Gar. Conc. floor 3.89 93.39

1450

E 4.3 93.0

C 4.3 93.0

+9 power pole

W 4.6 92.7

1463

E 3' wide Conc. walk 4.17 93.11

1486

W - Gar. dirt floor 5.3 92.0

W 5.3 92.0

97.28

94.46

C		5.6	92.3
E		4.8	92.5
	2+05		
W on line	Car. Conc. floor	5.47	91.81
	2+19		
E		5.3	92.0
C		5.4	91.9
W		5.6	91.7
W + or	3' wide Conc. walk	5.61	91.67
	2+28 9' E E Tol. pole		
	2+50		
W		5.9	91.4
C		5.8	91.5
E		5.7	91.6
	2+89		
E	4' wide conc walk	6.14	91.14
	2+94 9' W of E power pole		
	3+00		
E		6.7	90.6
C		6.6	90.7
W		6.8	90.5
T.P.	2+10 9x46'	6.92	90.36
	3+25		
E-1	Conc. Apron	3.84	90.62
	3+43 Wedge same		
E-1		4.04	90.42

about 15 ft high

	2+50		
W - W	Car. Conc. Apron	4.60	89.86
W		4.80	89.66
C		4.2	90.3
	2+9 Tol. pole	4.0	90.5
E		4.0	90.5
	3+78 9' W of E power pole		
	3+87		
E	2' wide Conc. walk	4.27	90.19
	4+00		
E		4.7	89.8
C		4.7	89.8
W		5.0	89.5
	4+14.20 Total on Line Prospect		
W	ct + pav.	4.97	89.49
C	"	5.05	89.41
E	ct + pav	4.64	89.82
T.P.	5.82 92.53	6.75	87.71
	check to SEDP	5.70	87.83

error 0.08 Ends 4 Prospect

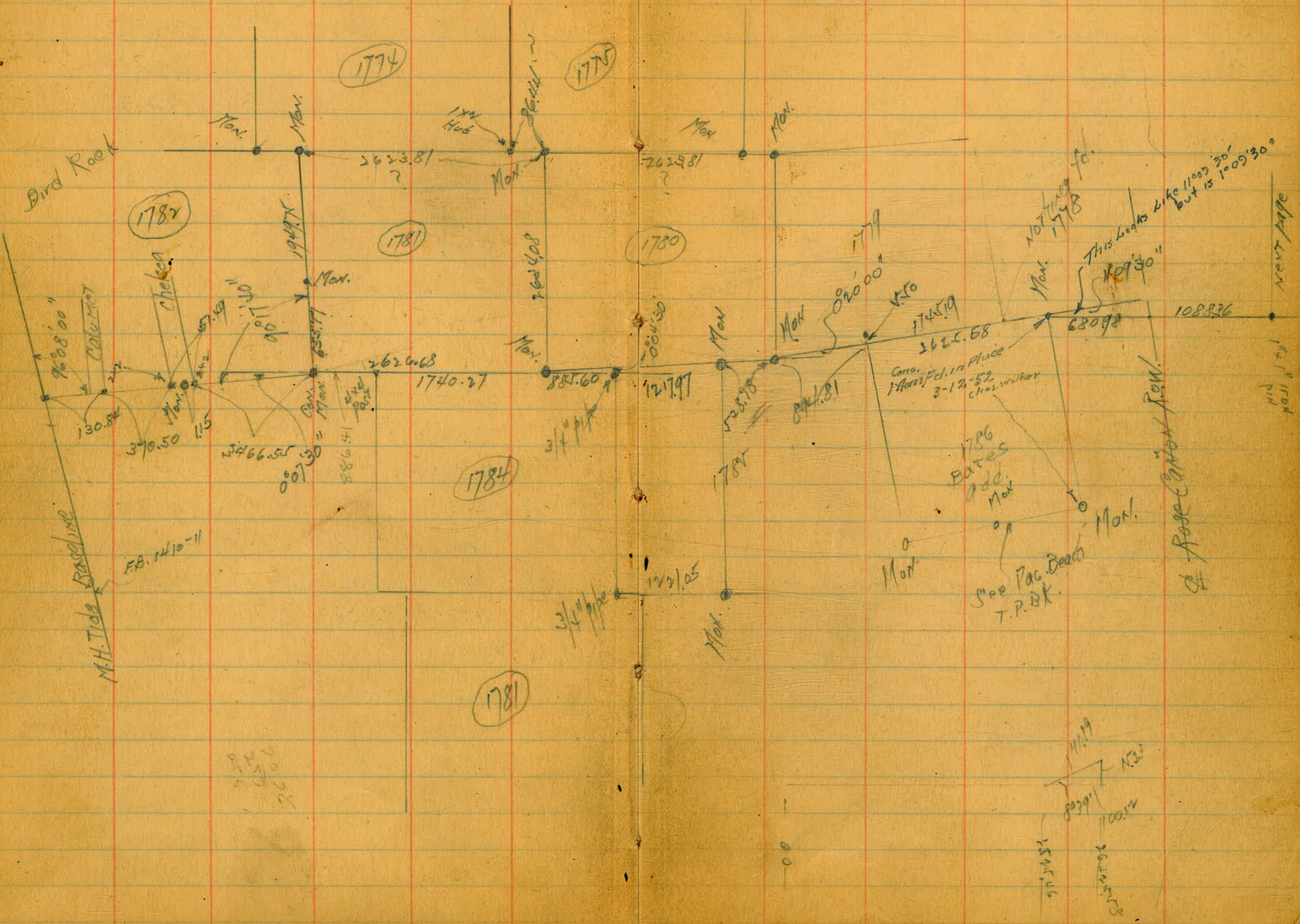
Plotted

Bird Rock

Sum 34 Indexed c.s.K.

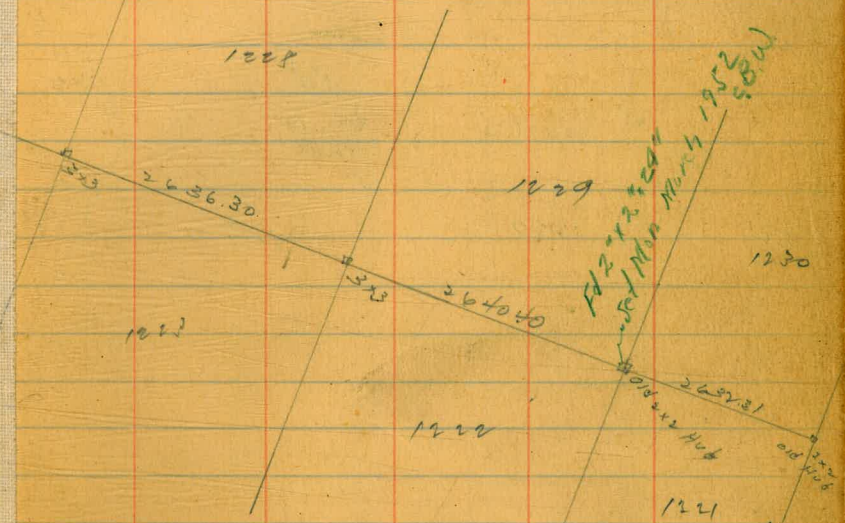
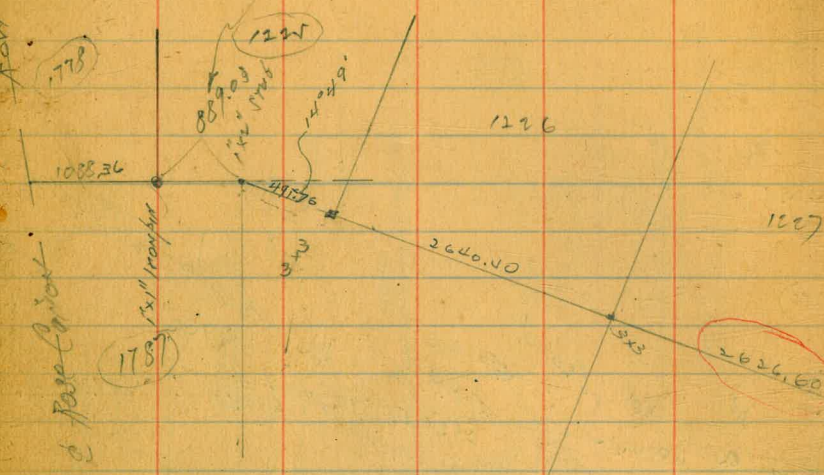
894.81
528.78
1423.59

63



894.81
528.78
1423.59

Note: This Dist checks fairly close
with FB $\frac{93}{14}$ CB.W 3-14-52



1220

1231

1224

1221

1230

1219

City Line Hatch Millard

Williams Construction Co. 170

Williams Construction Co. 170

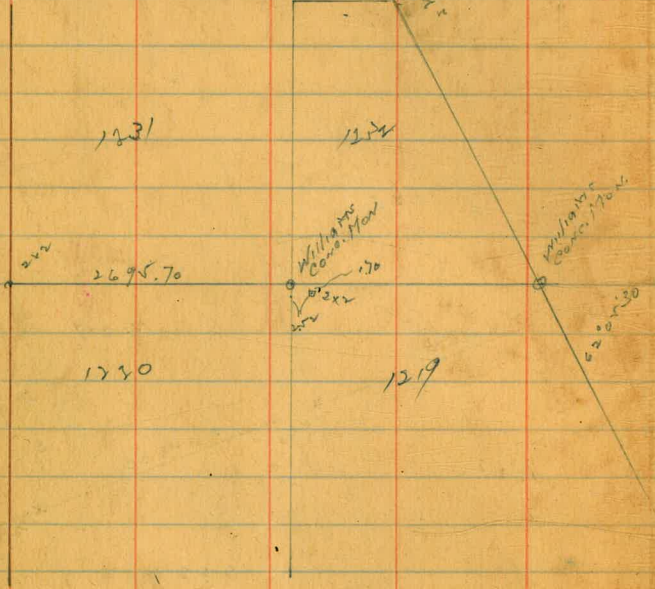
620 170

2695.70

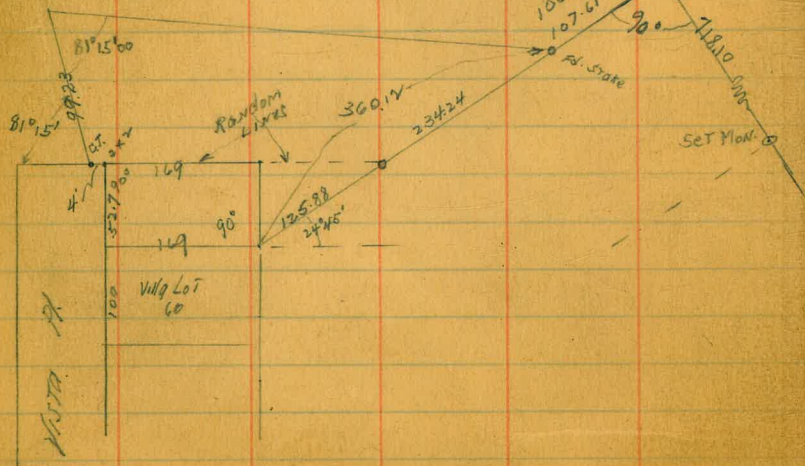
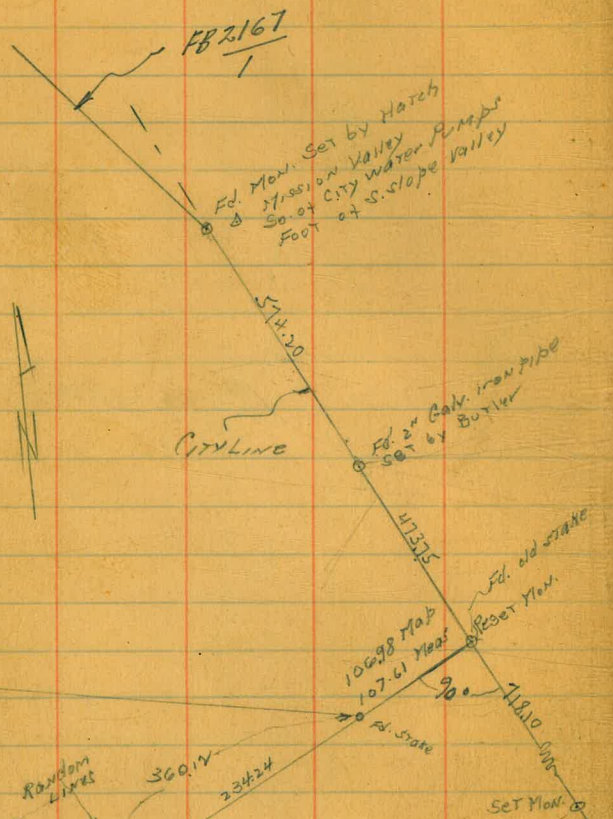
old hub

242

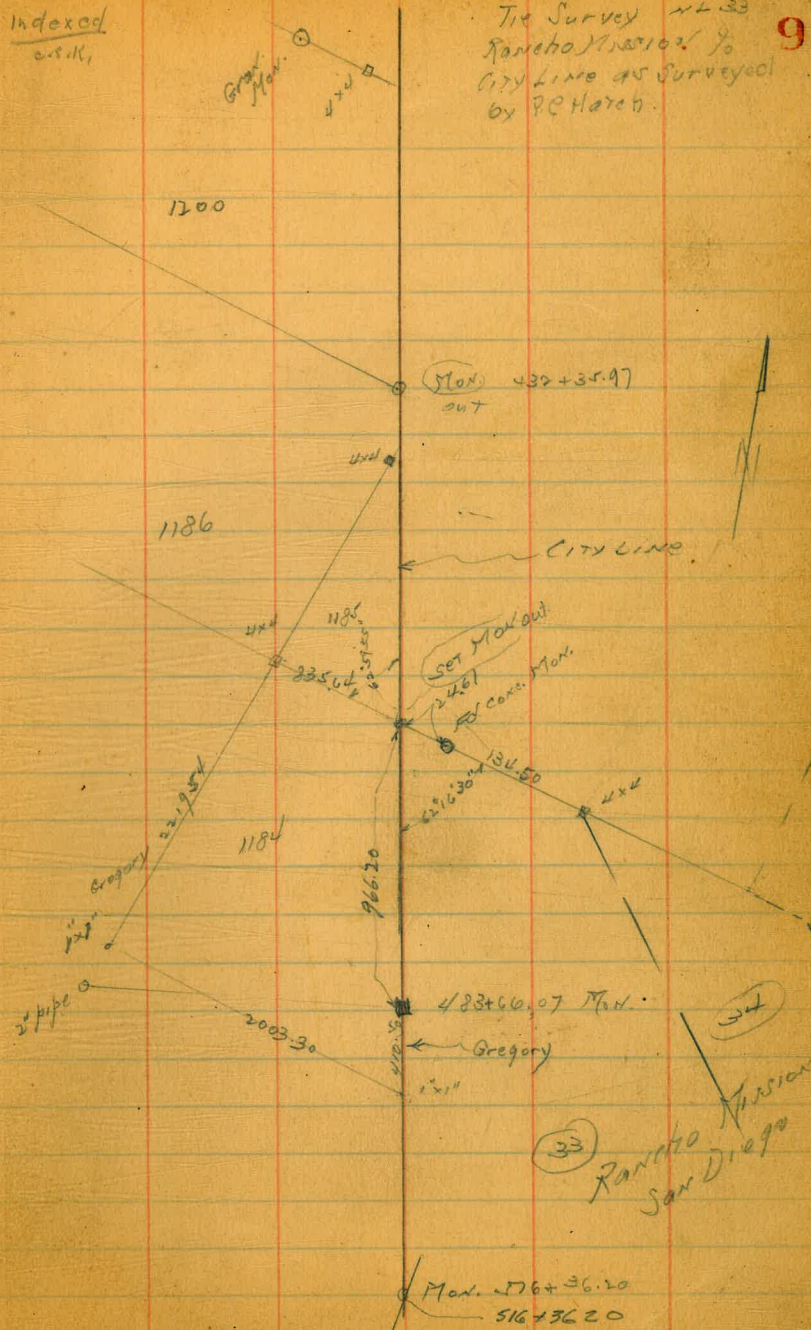
242



Survey to check Butler Survey Indexed
 So. of Δ in City Line Moore c.s.K.
 So. side Mission Valley 10-34



Indexed
 c.s.K.



Tie Survey 12-33
 Rancho Mission S.
 City Line as Surveyed
 by P. C. Hatch.

33
 Rancho Mission
 San Diego

Moore
Sharon
Northern
5/35

Sorrento Rd. or 100 wide
Proposed Secondary State
Highway & P.L. Ties.

Eidelweiss Nly to City Line.

22+05 Nly end bridge

21+17.5 = Live fence
21+00 Nly end bridge

this Mon. is
shifting
entire hillside has
been slipping down

11+40.27 Set 2x2 Hub 6" deep

CSM
Smart Construction
W.F.M.
4-9-45

0+00

See 1440-42
and p. 46

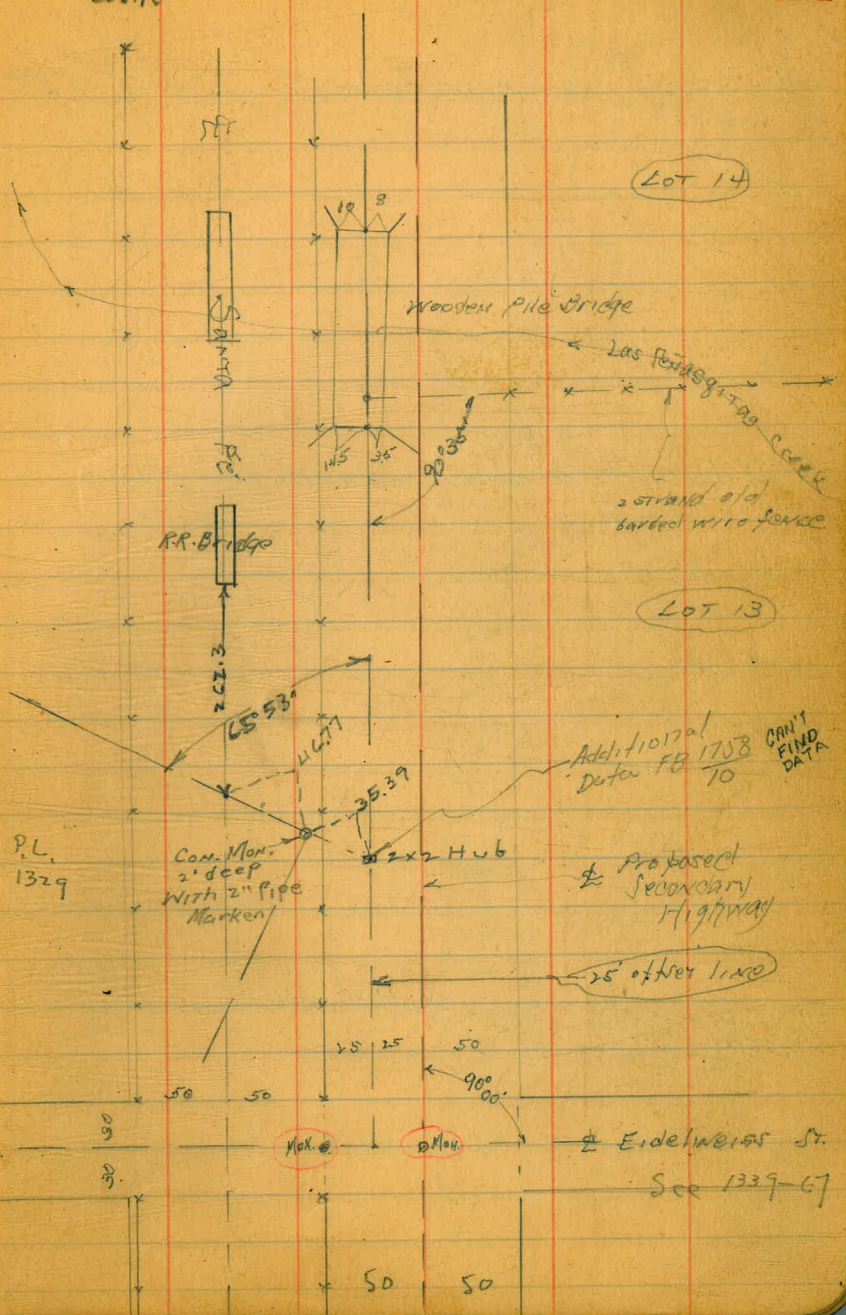
FB. 1071-74

Con. Mon.

indexed
C.S.R.

no. T.P. Shaw

11



Lot 14

Lot 13

Additional
Data FB 1708
TO
CAN'T
FIND
DATA

Proposed
Secondary
Highway

25' offset line

Eidelweiss St.
See 1339-67

49 + 31.27 old 3 strand barbed wire fence = Lot 16 & 17
Line between

39 + 98.97 = Int. Sec. of S/W line of Pls 1360 & 1361

29 + 67.20 = 25' offset P.I.
29 + 66.88 = 5' " P.I.
29 + 99.84 = old fence line N/W of Lot 14

30' Curve of RR = 11459.2

Set Conc. Mon.
Folon Place Nov. 1952
C.B. Walker
FB 2167
59

C.T. South nailed to Post

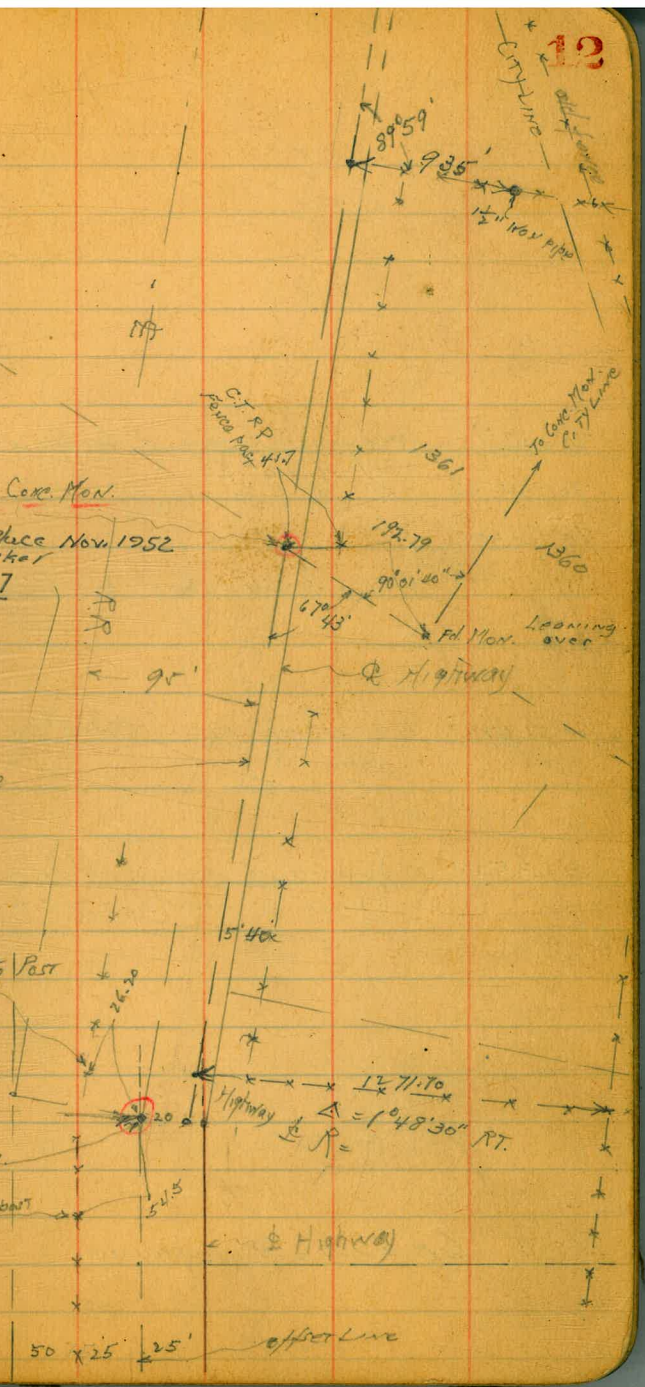
RR = 0° 30' D RT.

Set Conc. Mon.

O.T. RR. Lot 14 in part
Ely RR ROW.

5' offset line

50 x 25' 25' offset line



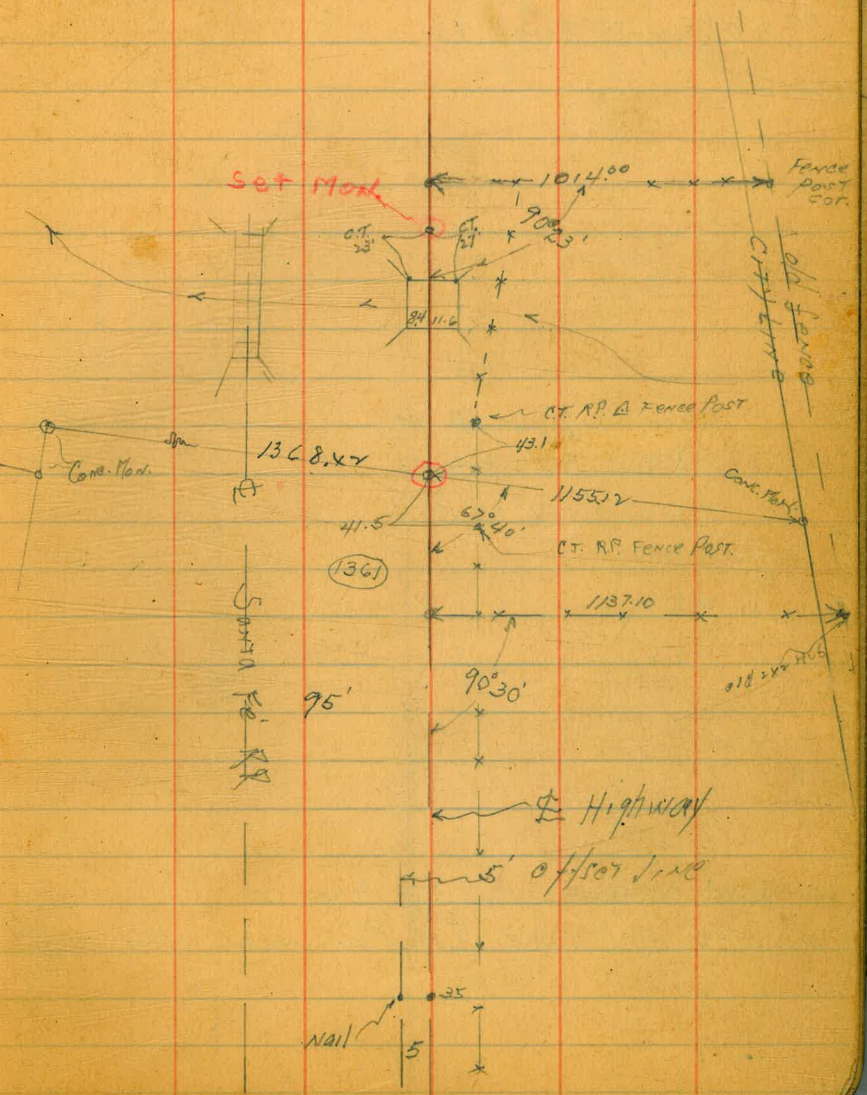
41.89
51.00
16.43
69 + 51
67 + 36

70 + 41.89 {old fence 3 strand barbed wire
Sly H Lot 20
70 + 25.46 = P.C. of Highway
70 + 0320 Nly " " " "
69 + 87.00 Sly end single span pile bridge

68 + 51.67 INT. of Nly 1361 Set Conc. Mon.

63 + 35.45 {remains of very old fence wire gone
Line between Lot 18 & 19

P.O.T. 60 + 00 = Highway



Sorrento Rd.

90.36
12.52
279.20

77 + 01.06 = Highway E.C.

See proposed change of align.

F.R. 1639.73



P.I. RR $\Delta = 14^{\circ}00'$ RT.
 $R = 2864.93$
 $2^{\circ}00'$ RT.



Reba Sta.
ON RR.

Highway

$\Delta = 14^{\circ}00'$

$R = 2764.93$

$T = 339.48$

$L = 678.60$

70 + 41.89 INT. fence Line = Sly # Lot 20

70 + 25.46 B.C. Old RR P.C. now used as siding

siding

Set Mon.

P.C.

90.23'

1024.00 old fence

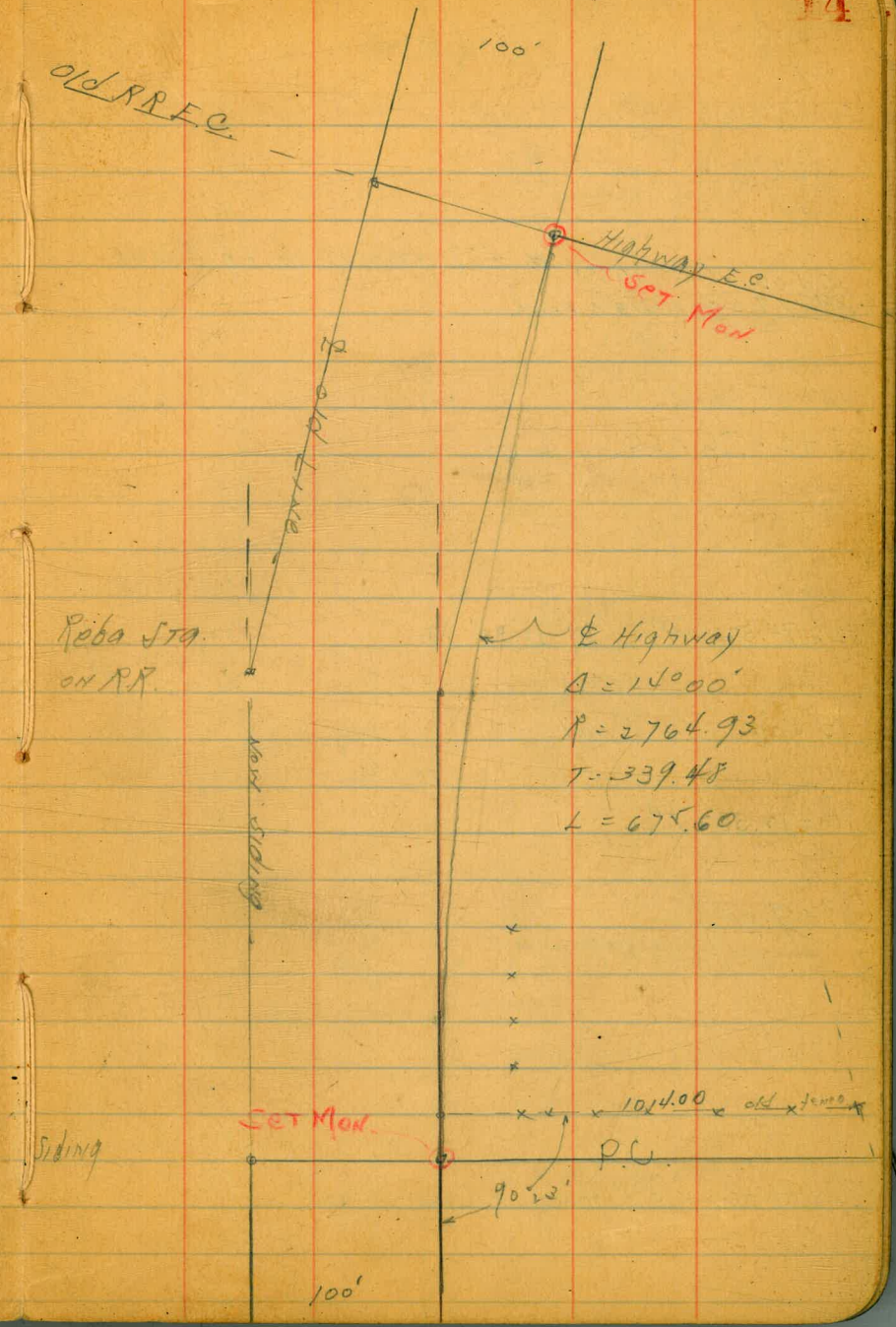
old RR E.C.

old line

new siding

100'

100'



0+00 = Co. Survey # 477 relocation of # 301
 89+19.25 = CITY LINE

85+24.76 = EC

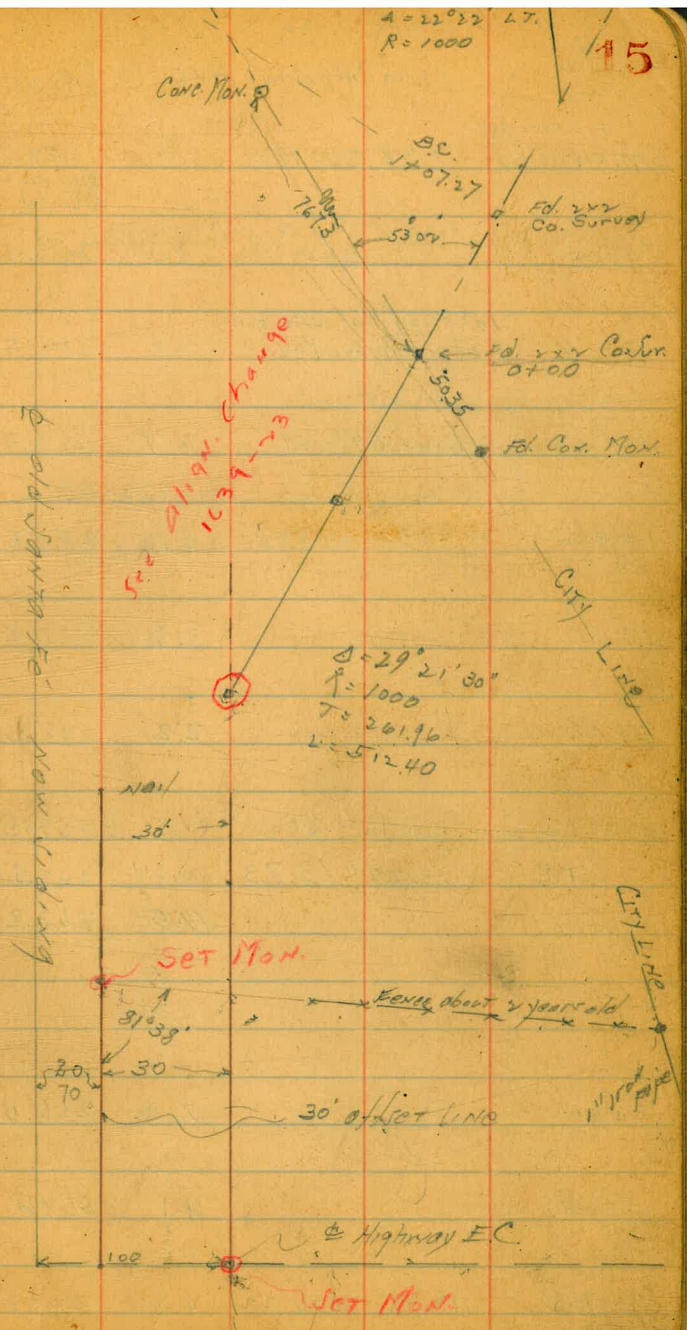
82+74.32 = P.I. $29^{\circ}21'30"$ Pt. Set Mon.

82+00 P.O.T. nail

80+12.36 PC

79+19.00

77+01.06 = Highway EC



6-18-36
Miller
Walker
Bliss

6" Water line 10' s. of ϕ Lisbon St
from Imperial Ave to Pidgeon St.

Top. Pipe SW
B.M. Cor Bridge 7.38 260.82
S.W. Imperial
+ Lisbon St.
253.44
Elev. stub
5' s. of ϕ .

0+00 7.4 253.4

0+08 10' s. of ϕ at water main
E. edge Imp Ave Pav. 7.3 253.5

0+50 = E. Line 69th St. 6.9 253.9 ✓
250.9 + 3.0

1+00 5.3 255.5 ✓ 252.5 + 3.0

1+50 3.6 257.2 254.0 + 3.2 ✓

2+00 2.2 258.6 255.6 + 3.0 ✓

2+30 W. Line Chester St. 1.3 259.5 ✓
256.5 + 3.0 ✓
259.5

T.P. 13.25 273.73 0.34 260.48
2+80 E. " " " 11.5 262.2 ✓
259.2 + 3.0 ✓

3+50 7.3 266.4 263.5 + 2.9 ✓

4+00 4.1 269.6 266.7 + 2.9 ✓

T.P. 12.85 286.22 0.36 273.37

0+00 W. Line Sub #5. of Lot 12 Ex Miss. R.
L.S. # 63

Fire Plug 10' W of W. Line
Chester 16.6 s. of ϕ

B.M. 260.48
6.89
267.37
259.20
259.40
7.97
1.72
+ 6.25

286.22

17

				Elev stub 5' S. of E.		
4+64	= W line Flicker St	12.1	274.1	270.7	±G 274.1	+3.2 ✓
5+14	E line Flicker St	9.6	276.6	273.3	±G 276.6	+3.3 ✓
5+50		8.2	278.0	275.0		+3.0 ✓
6+00		6.3	279.9	277.4		+2.5 ✓
6+50		2.9	283.3	279.9		+3.4 ✓
T.P.	5.24	291.50	0.00	286.22		
7+14	= W line Pidgeon St.	5.3	286.2	283.0	±G 286.2	+3.2 ✓
7+64	= E " " St.	2.5	289.0			
Set B.M. 2 nails		3.09	288.41		Elev Pole S. W Pidgeon + Lisbon	
T.P.	0.87	280.06	12.31	279.19		
T.P.	0.89	268.07	12.88	267.18		
T.P.	2.76	260.09	10.74	257.33		
orig. B.M.		6.64	353.45	353.44		

B.M. Nails Pole 10.76	299.17	288.41	S.W. Pidgón ← Lisbon	
7+64 E. Lin. Pidgón	10.2	289.0	288.0 284.8	+4.2 ✓
7+74 Fire Hydr 16.6 s. of	9.1	290.1	288.8	+1.3 ✓
8+00	9.1	290.1	EG 289.2 286.0	+4.1
8+50	8.2	291.0	286.6	+4.4
9+00	8.4	290.8	287.2	+3.6
9+50	8.2	291.0	287.8	+3.2
10+06.5 T	8.3	290.9	288.4	+2.5
10+50	7.2	292.0	288.9	+3.2
11+00	6.2	293.0	EG 292.7 289.5	+3.5
11+50	4.1	295.1	291.7	+3.4
12+00	0.6	298.6	EG 297.2 294.0	+4.6

Survey Mission Valley Rd.
 Thru Marcellena Tract
 Fairmont to College Way via Cotton Canyon

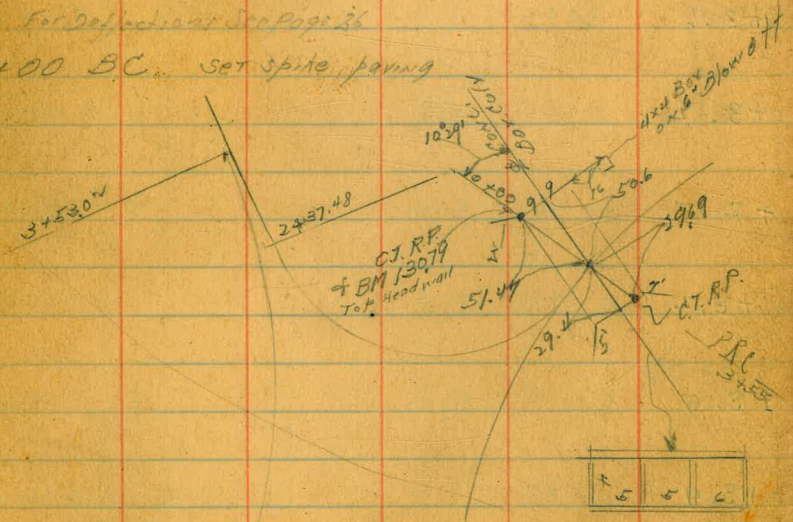
For Details Page 32-37

3+53.02 EC. set stub

$A = 50^{\circ}34'$ LT set spike paving
 $R = 400$
 $T = 188.94$ 4.2972' per ft.
 $L = 353.02$ $3^{\circ}34.86$ per 50

For Deflection see Page 36

0+00 BC. set spike paving



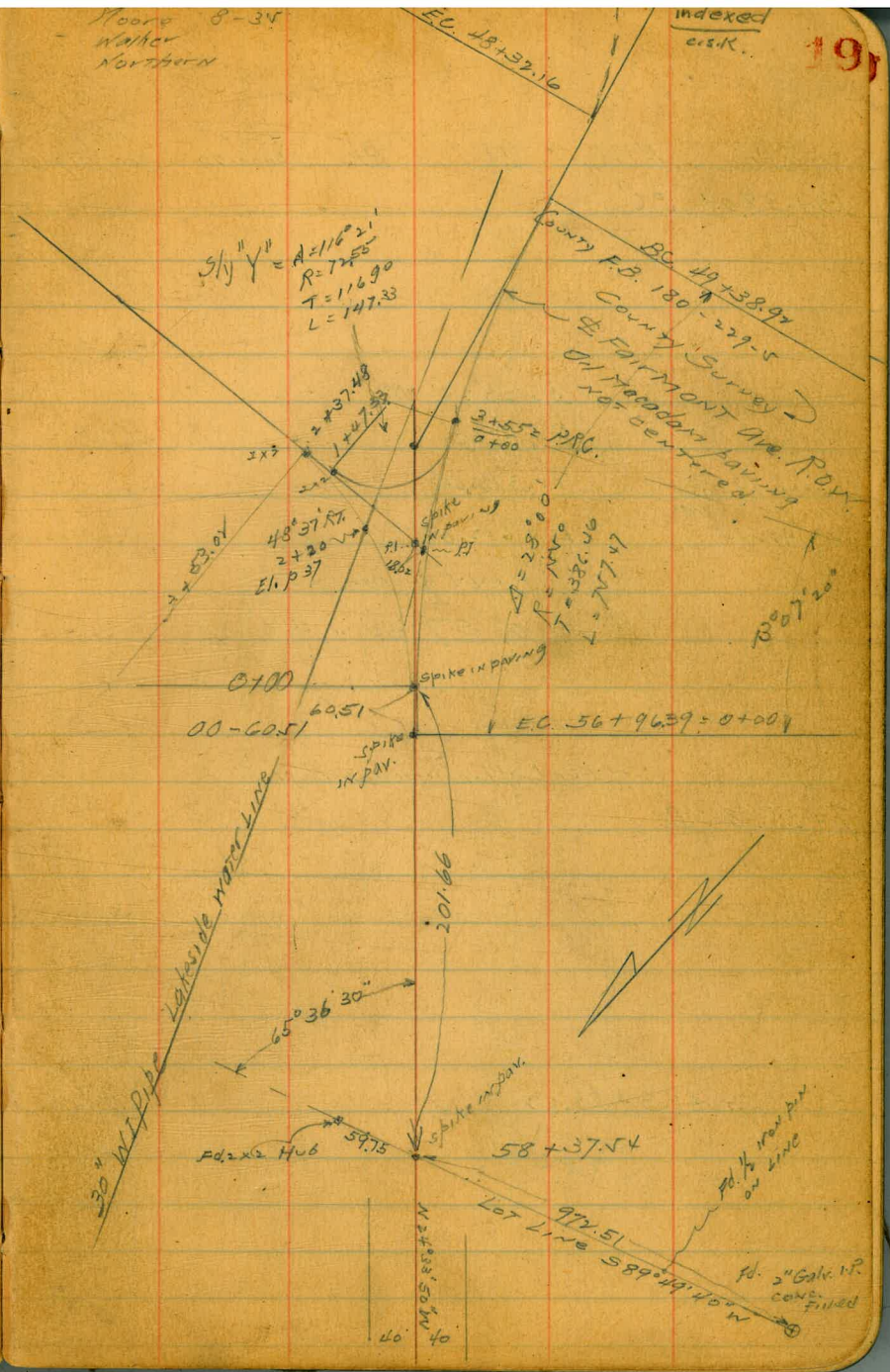
Set spike in oil macadam paving

Ex. Conn. Box

Page 36 - Book 180

Moore 8-35
 Walker
 Northern

indexed
 c.s.R. 191



Sly "Y" = $A = 116^{\circ}21'$
 $R = 7255'$
 $T = 147.33'$
 $L = 147.33'$

County F.B. 180 - 279-5
 County Survey D
 Fairmont Ave. ROW
 Oil Macadam paving
 not centered

EC 56+96.39 = 0+00

00-60.51

Pd 2x2 Hub

Lot Line
 972.51
 589.79
 10.2" Galv. I.P.
 cone filled

Sta	Align	Lt.	Rt.	True Bearing	Mag Bearing
13+38.09	EC				

$$A = 23^{\circ} 24' \text{ R}$$

$$R = 1500$$

$$T = 310.64$$

$$L = 612.61$$

$$1.1459 \text{ per } 4T$$

$$0^{\circ} 57.30'' \text{ or } 50''$$

Landon Pt. Hub
changed angle
see 1402-d

For Deflections See Page 27

7+25.48 BC

EC stub 3+53.07

372.46

23° 24'

E.C. 28 + 24.78 STUB

$\Delta = 44^{\circ}36'30''$ LT

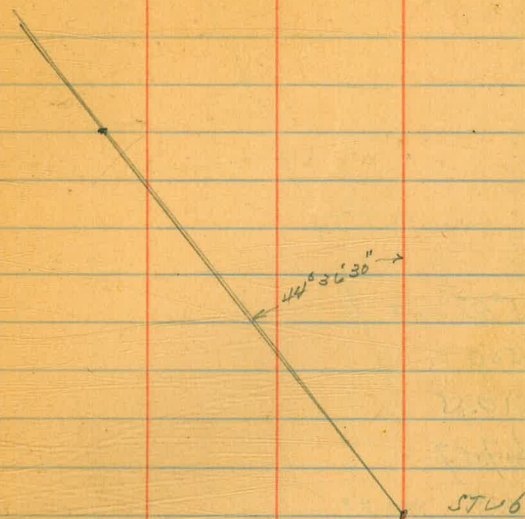
$R = 1500$

$T = 615.32$

$L = 1167.84$

1.1459 per ft

$0^{\circ}57'30''$ " 50'



B.C. 16 + 56.94 STUB

Note!
see page 46
for LINE "A"

E.C. 13 + 38.09

EC. 36 + 50.17

$$\Delta = 15^{\circ} 57' 47''$$

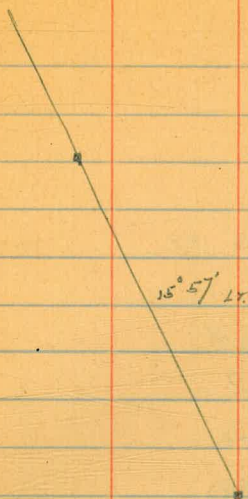
$$R = 1500$$

$$T = 210.15$$

$$L = 417.57$$

$$11459 \text{ per } 17$$

$$0^{\circ} 57.30'' \text{ " } 50''$$



DC. 32 + 37160 stub

EC. 28 + 24.78 stub

8-15-35
 Sioooy
 Hartberg
 Partridge
 Bowen
 Grabast

47°33'

$$A = 47^{\circ}33' \text{ PT.}$$

$$R = 1200$$

$$T = 528.64$$

$$L = 995.88$$

$$1.4324 \text{ per ft.}$$

$$1^{\circ} 11.62 \text{ " } 50$$

$$\left. \begin{array}{l} \text{B.C. } 49+98.78 \\ 49+48.78 \end{array} \right\} = \text{Equation}$$

1310 P.O.T.

$$\text{E.C. } 36+50.17$$

E.C. 667 89.52

$$\Delta = 26^{\circ} 13' \text{ LT}$$

$$R = 1200$$

$$T = 279.43$$

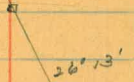
$$L = 549.08$$

$$1.4324 \text{ per ft.}$$

$$1^{\circ} 11.62' \text{ " } 50'$$

B.C. 614 40.44

E.C.



79+71.37 Rd. Spk to Parking

79+50.57 = Wly Imp

77+50
82+11

Ed. 15
2 x 2 dt.

7002

Ed. 15
15 x 15 1406

13007

Wly End of Cost
Parking
College Park

Ed. 15
1406

100041

5006

Ed. 15
1406

174.74

78+32.11

Ed. 15
1406 WITH 3 x 3 Guard

79+50.57

Unnamed St.

Mission Valley Rd.

79+71.37
Spk to Pav.

Street

Ed. 15
1406

36158

69+34.61

Lot 6

Ed. 15
1406

Lot 5

Lot 8

Lot 7

Marcellera Tract

Ed. 15
1406

Deflections

Mission Valley Road Thru Marcelino Tract.

Lt

8-16-35

26

Stinson

Hartberg

Barton

+53.02 F.C. 25° 17'

3+0 21° 29.16'

+50 17° 54.30'

2+0 P.O.C. 14° 19.44'

+50 10° 44.58'

1+0 7° 09.72'

+50 3° 34.86'

0+00 B.C.

Pt.

438.09	E.C.	11° 42'
1370		10° 58.25'
+50		10° 01.05'
1270		9° 03.75'
+50		8° 06.46'
1170		7° 09.16'
+50		6° 11.87'
+25	P.O.C.	5° 43.22'
1070		5° 14.57'
+50		4° 17.22'
970		3° 19.98'
+50		2° 22.69'
870	P.O.C.	1° 25.39'
+50		0° 28.10'
725.48	B.C.	

Lt.

+24.78	EC.	26° 18.25'
28 + 0		21° 49.83'
+50		20° 52.54'
27 + 0		19° 55.24'
+50		18° 57.95'
26 + 0	P.O.C.	18° 00.65'
+50		17° 03.36'
25 + 0		16° 06.06'
+50		15° 08.77'
24 + 0	P.O.C.	14° 11.47'
+50		13° 14.18'
23 + 0		12° 16.88'
+50	P.O.C.	11° 19.59'
22 + 0		10° 22.29'
+50		9° 25.00'
21 + 0	P.O.C.	8° 27.70'
+50		7° 30.41'
20 + 0		6° 33.11'
+50		5° 35.82'
19 + 0		4° 38.52'
+50		3° 41.23'
18 + 0	P.O.C.	2° 43.93'
+50		1° 46.64'
17 + 0		0° 49.34'
16 + 56.94	B.C.	

4.

+50.17	F.C.	7° 58.50
36+0		7° 01.05
+50		6° 03.72
35+0		5° 06.41
+50	P.O.C.	4° 09.12
34+0		3° 11.82
+50		2° 14.52
33+0		1° 17.23
+50		0° 19.94
32+32.60	B.C.	

Rt

+ 94.66	EG.	23° 46.50'
+ 50	P.O.C.	22° 42.53'
59 + 0		21° 30.91'
+ 50		20° 19.29'
58 + 0		19° 07.67'
+ 50		17° 56.05'
57 + 0		16° 44.43'
+ 50		15° 32.81'
56 + 0		14° 21.19'
+ 50		13° 09.57'
55 + 0		11° 57.95'
+ 50		10° 46.33'
54 + 0		9° 34.71'
+ 50	P.O.C.	8° 23.09'
53 + 0	P.O.C.	7° 11.47'
+ 50		5° 59.85'
52 + 0		4° 48.23'
+ 50	P.O.C.	3° 36.61'
51 + 0		2° 24.99'
+ 50		1° 13.37'
50 + 0		out.

19 + 98.78 B.C. Equation
 19 + 48.787
 ↓

Lt.

+ 89.52	F.C.	13° 06.50'	
+ 50		12° 09.89'	
66 + 0		10° 58.27'	
+ 50		9° 46.65'	
65 + 0		8° 35.03'	
+ 50		7° 23.41'	R = 1200'
64 + 0		6° 11.79'	
+ 50		5° 00.17'	
63 + 0	P.O.C.	3° 48.55'	
+ 50		2° 36.98'	
62 + 0		1° 25.31'	
+ 50		0° 13.69'	
61 + 40.44	B.C.		

Levels Mission Valley Road

T through Marcello's tract
Fairmont Ave to College Day

For Alignment Page 19 to 31

BM	1.23	151.06	149.83	42+14.722 1462 Bgt 11 London
TP	1.16	139.90	12.32	138.74
TP	5.50	137.01	8.39	131.51
BM Cap Track	pl. Rt. Fairmont	6.28	130.79	H.F. Cor. Conv. Calif. Fairmont H.J. Lx 4 Mt. X 47.47 E of
0+00 - 60.51	07 Paving	15.72	121.29	0+00 PAV 3.56
0+00	B.C. 07 Paving	14.64	122.37	
+50	" "	13.04	123.97	
1+00	= Fly Edge	11.45	125.56	
+50		11.2	125.8	
+70		2.6	134.4	
2+00		+1.0	138.0	
+25		6.7	130.3	
+50		0.6	136.4	
TP	9.25	145.84	0.43	136.59
3+00		7.5	138.3	
+53.02	EC on Stub	8.38	137.46	
+75		7.1	138.7	
4+00		10.7	135.1	
+50		12.3	133.5	
5+00		11.2	134.6	
+50		9.4	136.4	
+75		12.4	133.4	
6+00		10.6	135.2	
+50		7.8	138.0	
7+00		5.0	140.8	

indexed
e.s.k.

145.84

7+25.48	B.C. RL	2.96	142.88	09 Stub
+50		1.1	144.7	
TP	12.05	158.60	0.29	145.55
8+00		8.6	150.0	
+50		7.0	151.6	
9+00		7.5	151.1	
+50		5.1	153.5	
10+00		2.4	156.2	
TP	7.02	165.06	0.56	158.04
+25		6.9	158.2	
+50		8.1	157.0	
11+00		10.5	154.6	
+50		12.5	152.6	
12+00		12.8	152.3	
+50		10.2	154.9	
13+00		7.5	157.6	
+28.09	EC	4.8	160.3	
+50		6.0	159.1	
14+00		8.9	156.2	
+50		5.4	159.7	
15+00		3.9	161.2	
TP	12.20	175.57	1.75	163.31
+50		10.7	164.8	
16+00		5.8	169.7	
+56.24	B.C. Bl.	3.4	172.1	

407.19.25
5.1.27
North 3rd
Fairmont
Boston

		175.51				217.44		
TP	12.40	187.39	0.52	174.99		25+0	8.5	208.9
17+0			10.9	176.5		+20	5.7	211.7
+50			4.2	183.2		+50	5.0	212.4
TP	10.53	197.37	0.55	186.84	on Rock 5 ft. 17+30	+60	6.7	210.7
18+0			7.7	189.7		+70	4.6	212.8
+50			6.5	190.9		26+0	3.9	213.5
+80			9.1	188.3		TP	6.57	219.85
19+0			13.5	183.9		+50	8.7	211.1
+12			16.5	180.9		27+0	9.8	210.0
+25	= Bot. Wash From N.		16.7	180.7		+50	9.1	210.7
+50			15.8	181.6		+85	9.2	210.6
+82			5.3	192.1		28+0	= Bot. Wash From N.	12.1
20+0			2.9	194.5		+10	11.0	208.8
+50			1.3	196.1		+24.78	FC	5.52
TP	12.76	209.59	0.54	196.83	Top of Stake 20+50	+50	3.1	216.7
21+0			11.9	197.7		29+0	5.6	214.2
+50			9.3	200.3		+50	8.0	211.8
22+0			5.7	203.9		30+0	5.1	214.7
+50			2.5	207.1		TP	12.08	229.35
TP	9.77	217.44	1.92	207.67	on Stake 23+50	+50	8.1	221.2
23+0			8.6	208.8		TP	12.41	240.35
+50			6.6	210.8		31+0	9.2	231.1
24+0			5.4	212.0		+30	6.8	233.5
+50			4.7	212.7		+40	5.4	230.9
+90	Bot. Wash From N.		8.1	209.3		+50	12.5	227.8

Aug 20 334

240.35

31+65	- Bot. Wash From N	21.2	219.1
32+0		0.8	239.5
TP	12.82	252.65	0.52 239.83
+32.60	B.C. Lt.	5.1	247.5
+50		1.7	250.9
TP	12.35	264.84	0.16 252.49
33+0		3.1	261.7
TP	12.37	276.99	0.22 264.62
+50		2.7	274.3
TP	13.01	289.70	0.30 276.69
34+0		5.9	283.8
TP	12.75	302.02	0.43 289.27
+50		10.2	291.8
35+0		8.8	293.2
+40		11.7	290.3
+50	- Bot. Wash From N	15.1	286.9
+65		12.6	289.4
+80		6.7	295.3
36+0		5.7	296.3
+50.17	F.C.	6.33	295.69
+60		4.8	297.2
TP	4.55	306.51	0.06 301.96
37+0		1.6	304.9
+50		2.9	303.6
+90		4.5	302.0

306.51

38+0		6.2	300.2
+50		12.4	294.1
TP	0.43	294.87	12.07 294.44
39+0		5.0	289.9
+50		10.5	284.4
TP	0.82	283.25	12.44 282.43
40+0		5.3	277.9
+50		15.8	267.4
+90	- Bot. Wash From N	2.96	253.6
41+0		27.7	255.5
+20		20.2	263.0
+50		14.1	269.1
42+0		8.7	274.5
+50		5.6	277.6
43+0		6.8	276.4
TP	4.03	280.90	6.38 276.87
+25		7.4	273.5
+50		14.3	266.6
+70	- Bot. Wash From N	18.3	262.6
+85		14.0	266.9
44+0		12.7	268.2
+35		10.0	270.9
+50		6.7	274.2
+75		4.3	276.6
45+0		5.4	275.5

Top of Stalk
32+0

Top of Stalk
38+50

Top of Stalk
43+0

on Hub

		280.90			
45+50			5.0	275.9	
+65 = Bot. Wash From N.			5.5	275.4	
TP	12.23	293.10	0.08	280.87	
46+0			3.2	289.9	
TP	11.75	304.61	0.24	292.86	
+25			7.5	297.1	
TP	12.35	316.49	0.47	304.14	
+50			6.4	309.1	
TP	12.48	328.86	0.11	316.38	
47+0			6.7	322.2	
+50			0.8	328.1	
TP	13.09	341.23	0.72	328.14	
48+0			8.6	332.6	
+50			1.7	339.5	
TP	11.79	352.34	0.68	340.55	
49+0			3.9	348.4	
TP	13.00	365.01	0.33	352.01	
+48.78	BC = Equator		6.68	358.33	07 Hub
+98.78					
50+50			1.2	363.8	
TP	5.90	370.66	0.25	364.76	
51+0			5.4	365.3	
+50			4.6	366.1	
52+0			5.4	365.3	
+50			9.1	361.6	

		370.66			
53+0			13.0	357.7	
TP	1.25	359.65	12.36	358.30	Top of State 53+0
+50			7.2	352.4	
TP	0.97	348.66	11.96	347.69	
54+0			12.3	336.4	
+30			26.0	322.7	
+40 = Fly Wash			32.1	316.6	
+50			31.3	317.4	
55+0 = Fly Wash			38.9	319.8	
+50			5.7	343.0	
TP	12.69	360.68	0.67	347.99	
TP	12.79	372.98	0.49	360.19	
56+0			4.0	369.0	
TP	13.10	385.48	0.60	372.38	
+50			7.1	378.4	
TP	13.28	398.21	0.55	384.93	
57+0			11.0	387.2	
+50			1.4	396.8	
TP	13.01	410.34	0.88	397.33	Top of State 57+50
58+0			5.2	405.1	
TP	12.99	422.82	0.51	409.83	
+50			11.1	411.7	
59+0			8.2	414.6	
+50			9.0	413.8	
+94.66 BC			9.87	412.95	07 Hub

422.82

60+50			6.3	416.5
61+0			2.8	420.0
+40.44 B.C.Lf			1.04	421.78
TP	11.62	433.40	1.04	421.78
+50			12.1	421.3
62+0			8.6	424.8
TP	12.95	446.20	0.15	433.25
+50			5.0	437.2
63+0			5.0	441.2
+50			3.1	443.1
TP	12.37	457.23	1.34	444.86
64+0			12.4	444.8
+50			10.9	446.3
65+0			9.9	447.3
+50			8.6	448.6
66+0			6.6	450.6
+50			6.1	451.1
+89.52 G.F.C.			3.85	453.38
67+50			4.3	452.9
TP	6.86	462.74	1.35	455.88
68+0			7.8	454.9
+50			7.5	455.2
69+0			7.3	455.4
+50			6.7	456.0
70+0			6.6	456.1

462.74

70+25			5.0	457.7
+50			8.2	454.5
71+0			7.2	455.5
+50			7.7	455.0
+75			5.0	457.7
72+0			6.4	456.3
+50			6.2	456.5
73+0			7.6	455.1
+25			5.7	457.0
+50			7.6	455.1
TP	5.22	460.98	6.98	455.76
74+0			7.2	453.8
+50			6.9	454.1
75+0			6.9	454.1
+50			6.6	454.4
+80			4.5	456.5
76+0			6.1	454.9
+50			5.4	455.6
+80			4.0	457.0
77+0			5.0	456.0
+50			4.6	456.4
+75			4.2	456.8
78+0			3.7	457.8
+10			4.5	456.5
+50			4.3	456.7

0.7 % Hub
61+40.44 B.C.Top of Slope
73+50

Grade

Note cut 5.0
5.0% Grade at 69
547/1/2/50M

Levels on 30" Water Line
Location A19

37

460.98

7910	4.9	456.1
+25	4.3	456.7
+45	7.9	453.1
+50.57 = N 1/4 of Imp Mission Valley Road.	7.42	453.58
BM	7.27	453.71

NW End Co
452.66
Mar 14 1906

BM. CT. 12.17 143.26 130.79

NE Cor.
Box. C.V.

2+20	± Top 30" pipe	12.56	130.70
25	RT " " "	14.40	146.86
50	LT " " "	4.0	139.46

BM	0.66	466.91	466.25
TP	1.10	459.90	8.11 458.80
TP	4.41	455.92	8.39 451.51
TP	6.46	457.15	5.23 450.69
BM		3.51	453.64

SE Top Hyd
Admst
College

Mission Valley
Road N 1/4 of
Imp.

Mission Valley Rd.
 Hand-level xsec for P.C. & E.T.
 See p 32 for E & Y level notes.

Moore
 5/13/51
 North-Hard
 Oct. 19. 51

+25

145.8
 $\frac{+14.5}{45}$
 139.9
 $\frac{+9.6}{20}$
 130.3
 $\frac{+2.2}{15}$
 132.5
 $\frac{-2.8}{40}$
 127.5

+70

145.8
 $\frac{+7.8}{45}$
 143.0
 $\frac{+5.2}{35}$
 136.3
 $\frac{-1.7}{20}$
 138.0
 $\frac{0.0}{20}$
 138.0
 $\frac{-10.4}{25}$
 127.6
 $\frac{-9.0}{40}$
 129.0

+50

148.6
 $\frac{+11.2}{50}$
 142.9
 $\frac{+8.2}{40}$
 144.1
 $\frac{+9.7}{30}$
 137.9
 $\frac{+2.5}{13}$
 134.4
 $\frac{-8.2}{5}$
 126.2
 $\frac{-6.1}{40}$
 128.3

Plotted 12/26-35
 W.D. Se

146.1
 $\frac{+20.3}{50}$
 150.0
 $\frac{+24.2}{27}$
 140.2
 $\frac{+14.2}{20}$
 137.3
 $\frac{+11.4}{8}$
 125.8
 $\frac{+2.6}{15}$
 126.4
 $\frac{+1.4}{40}$
 127.2

+50

147.4
 $\frac{+21.8}{40}$
 143.6
 $\frac{+18.0}{30}$
 124.1
 $\frac{-1.4}{19}$
 125.56
 $\frac{-1.4}{30}$
 124.1
 $\frac{-1.4}{40}$
 127.1

00 = BC.

128.5
 $\frac{+1.5}{44}$
 122.5
 $\frac{-1.5}{37}$
 120.9
 $\frac{-3.1}{35}$
 122.9
 $\frac{-1.1}{25}$
 123.97
 $\frac{-0.4}{25}$
 123.5
 $\frac{-3.8}{32}$
 120.1
 $\frac{-5.8}{40}$
 118.1

0-60.51 x P.C. Rt on Fairmont

120.4
 $\frac{-0.1}{40}$
 119.6
 $\frac{-1.7}{35}$
 121.3
 $\frac{0.0}{25}$
 121.29
 $\frac{-0.7}{18}$
 121.7
 $\frac{-5.0}{40}$
 117.4
 $\frac{-4.2}{25}$
 121.3
 $\frac{-1.5}{20}$
 116.9
 $\frac{-1.5}{20}$
 115.4

+50

147.1	139.9	134.6	134.4	134.9	132.2	132.9
+10.7	+3.5	-1.8	-2.0	-1.5	-1.2	-1.5
25	20	15	25	25	27	100

5

147.0	141.3	137.6	133.6	132.9	133.2
+12.4	+6.7	+3.0	-1.0	-1.7	-1.4
25	25	25	25	25	100

+50

148.6	143.0	134.7	132.9	129.8	130.8	131.1
+15.1	+9.5	+1.2	-0.6	-2.7	-2.7	-2.4
25	25	10	25	25	25	100

4

149.3	146.6	141.8	133.7	128.8	129.5	131.1	131.1
+14.1	+11.5	+6.7	-1.5	-6.3	-5.6	-4.0	-4.0
25	25	10	25	25	25	100	100

+75

145.7	140.2	138.7	135.0	128.7	129.9	129.3
+7.0	+1.5	-2.7	-10.0	-8.8	-9.4	-9.4
25	25	10	12	25	25	100

+307 EC

148.7	141.3	137.46	136.9	128.5	129.5	128.9
+11.2	+3.8	-0.6	-9.0	-8.0	-8.6	-8.6
25	20	4	17	25	25	100

3

Beginning channel change

145.4	142.3	138.3	132.9	128.8	128.0	128.2
+7.1	+4.0	-5.5	-9.5	-10.2	-10.1	-10.1
25	20	25	30	25	100	100

2+50

144.7	131.7	130.7
+8.3	-4.7	-5.7
25	20	40

+50

✓

$\frac{+6.4}{25}$	$\frac{+30}{25}$	158.0	154.6	148.4	146.0	143.5	139.6	146.7
			157.6	$\frac{-4.2}{25}$	$\frac{-5.6}{25}$	$\frac{-3.1}{60}$	$\frac{-2.0}{25}$	$\frac{-1.9}{100}$

8

✓

$\frac{+7.7}{25}$	$\frac{+4.7}{20}$	157.7	154.7	147.5	144.5	143.7	140.0	139.5
			150.0	$\frac{-2.5}{25}$	$\frac{-5.5}{25}$	$\frac{-6.5}{25}$	$\frac{-10.0}{60}$	$\frac{-10.5}{100}$ creek

+50

✓

$\frac{+8.8}{25}$	$\frac{+1.6}{20}$	153.5	146.3	144.7	143.7	141.6	138.9	
					$\frac{-1.0}{20}$	$\frac{-3.1}{25}$	$\frac{-5.8}{100}$ creek	

+25.48 BC

✓

$\frac{+9.4}{25}$	$\frac{-0.4}{20}$	152.3	142.5	142.88	141.9	140.1	139.3	136.9
					$\frac{-1.0}{20}$	$\frac{-2.8}{25}$	$\frac{-3.6}{100}$	$\frac{-6.0}{150}$

7

✓

$\frac{+8.1}{25}$	$\frac{+0.6}{25}$	148.9	141.4	140.8	140.4	139.3	138.8	136.4
					$\frac{-0.4}{20}$	$\frac{-1.4}{25}$	$\frac{-2.0}{100}$	$\frac{-4.4}{150}$ creek

+50

✓

$\frac{+9.0}{25}$	$\frac{+0.7}{20}$	147.0	138.7	138.0	137.7	137.5	137.6	135.0
					$\frac{-0.3}{20}$	$\frac{-0.2}{25}$	$\frac{-0.4}{100}$	$\frac{-3.0}{150}$ creek

6

✓

$\frac{+8.7}{25}$	$\frac{+0.4}{25}$	143.9	139.4	135.2	135.5	135.7	135.5	
			$\frac{0.0}{20}$	135.2	$\frac{+0.3}{20}$	$\frac{+0.2}{25}$	$\frac{+0.3}{100}$	

5+75

✓

$\frac{+12.0}{45}$	$\frac{+5.8}{25}$	145.4	139.2	133.2	134.7	135.2	134.4	133.4
					$\frac{+1.3}{20}$	$\frac{+1.5}{25}$	$\frac{+1.0}{90}$	$\frac{0.0}{100}$

12

+50

✓ 171.5
 $\frac{19.2}{24}$ 157.5
 $\frac{15.2}{24}$ 152.3
 $\frac{149.1}{15}$ 150.6
 $\frac{-2.7}{30}$ 147.8
 $\frac{-2.5}{24}$ creek
 $\frac{-2.5}{100}$ 149.8

11

+50

+25

✓ 170.8
 $\frac{18.2}{24}$ 154.4
 $\frac{1.9}{17}$ 152.6
 $\frac{150.1}{24}$ 149.2
 $\frac{-2.5}{24}$ 148.2
 $\frac{-3.4}{24}$ creek
 $\frac{-2.4}{100}$ 150.2

✓ 165.1
 $\frac{10.5}{24}$ 158.1
 $\frac{3.2}{23}$ 154.6
 $\frac{150.9}{20}$ 149.6
 $\frac{-4.7}{20}$ 145.9
 $\frac{-5.0}{24}$ creek
 $\frac{-8.7}{100}$ creek

✓ 164.5
 $\frac{7.2}{24}$ 161.0
 $\frac{4.0}{24}$ 157.0
 $\frac{152.9}{24}$ 150.8
 $\frac{-4.1}{24}$ 146.5
 $\frac{-6.2}{24}$ 144.5
 $\frac{-10.5}{24}$ creek
 $\frac{-12.4}{100}$ creek

✓ 166.2
 $\frac{8.0}{24}$ 162.5
 $\frac{4.3}{24}$ 158.4
 $\frac{153.5}{24}$ 151.2
 $\frac{-4.7}{24}$ 147.0
 $\frac{-7.0}{24}$ 144.0

10

+50

✓ 164.5
 $\frac{8.3}{24}$ 160.5
 $\frac{4.3}{24}$ 156.2
 $\frac{154.0}{24}$ 150.6
 $\frac{-2.2}{24}$ 143.8
 $\frac{-5.0}{24}$ 144.0
 $\frac{-10.4}{24}$ creek
 $\frac{-12.2}{100}$ creek

✓ 159.0
 $\frac{5.2}{24}$ 156.5
 $\frac{3.0}{24}$ 153.5
 $\frac{150.3}{24}$ 147.0
 $\frac{-2.2}{24}$ 142.5
 $\frac{-6.5}{24}$ creek
 $\frac{-11.0}{100}$ creek

9

✓ 156.1
 $\frac{5.0}{24}$ 153.8
 $\frac{2.7}{24}$ 151.1
 $\frac{146.2}{30}$ 145.5
 $\frac{-4.9}{30}$ 144.5
 $\frac{-4.6}{24}$ 144.0
 $\frac{-6.6}{24}$ 141.0
 $\frac{-10.1}{24}$ 140.5
 $\frac{-10.6}{100}$ creek

16 + 00.17 = B.C. Line "A" see page 46
for change of alignment.
levels cont'd. p 53

+50

15 end channel change

+50

14

+50

+38.09 EC

13

12 +50

197.8	183.2	162.5	159.4
+28.1	+13.5	-7.2	-10.3
40	20	20	25
109.7			

191.9	183.0	160.2	158.3	158.6
+27.1	+19.0	-4.6	-6.5	-6.7
40	25	13	25	25
104.8				

187.9	180.5	157.4	157.2	155.2
+26.7	+19.2	-3.8	-4.0	-6.0
50	30	25	25	100 creek
101.2				

184.2	173.9	156.2	158.0	154.7	155.3
+24.5	+14.4	-1.7	-4.0	-4.4	-1.4
50	22	25	25	25	100
159.7					

183.2	169.7	155.5	155.4	153.2	153.8
+27.0	+13.5	-0.7	-0.8	-3.0	-2.4
50	22	25	25	65 creek	100
156.2					

167.2	162.1	158.1	151.3	152.4	152.9	151.3	152.1
+8.1	+3.0	-1.0	-7.8	-6.7	-1.5	-6.0	-7.0
25	15	25	25 creek	25	25	65	100
159.1							

168.3	163.5	151.1	152.6	152.5	151.3
+8.0	+3.4	-9.2	-7.7	-7.8	-9.0
25	20	25 creek	25	25	100
160.3					

177.5	170.3	156.2	151.1	151.4	151.9	152.0	151.0
+14.9	+12.7	-1.2	-6.5	-6.0	-5.7	-5.6	-2.6
45	25	25	7 creek	25	45	65	100
157.6							

175.1	164.6	152.9	149.5	149.4	150.2	149.7
+20.2	+9.7	-2.0	-5.2	-5.5	-4.7	-5.2
25	20	8	10	45	65	100
152.9						

+22

$$\begin{array}{r} +90 \\ 40 \end{array} \quad \begin{array}{r} +22 \\ 12 \end{array} \quad 180.7 \quad \begin{array}{r} -30 \\ 20 \end{array} \quad \begin{array}{r} -12 \\ 25 \end{array}$$

+14

$$\begin{array}{r} +149 \\ 40 \end{array} \quad \begin{array}{r} +68 \\ 25 \end{array} \quad 180.9 \quad \begin{array}{r} -22 \\ 25 \end{array} \quad \begin{array}{r} -41 \\ 25 \end{array}$$

19

$$\begin{array}{r} +15.2 \\ 40 \end{array} \quad \begin{array}{r} 481 \\ 20 \end{array} \quad 183.9 \quad \begin{array}{r} -6.5 \\ 16 \end{array} \quad \begin{array}{r} -6.4 \\ 25 \end{array}$$

+80

$$\begin{array}{r} +14.1 \\ 40 \end{array} \quad \begin{array}{r} +7.0 \\ 20 \end{array} \quad 188.3 \quad \begin{array}{r} -11.6 \\ 25 \end{array} \quad \begin{array}{r} -13.1 \\ 45 \end{array}$$

+50

$$\begin{array}{r} +15.2 \\ 40 \end{array} \quad \begin{array}{r} +63 \\ 20 \end{array} \quad 190.9 \quad \begin{array}{r} -6.2 \\ 25 \end{array} \quad \begin{array}{r} -12.3 \\ 45 \end{array}$$

18

$$\begin{array}{r} +19.2 \\ 40 \end{array} \quad \begin{array}{r} +103 \\ 23 \end{array} \quad 189.7 \quad \begin{array}{r} -9.6 \\ 22 \end{array} \quad \begin{array}{r} -21.3 \\ 25 \end{array}$$

+50

$$\begin{array}{r} +24.6 \\ 40 \end{array} \quad \begin{array}{r} +15.1 \\ 30 \end{array} \quad 183.2 \quad \begin{array}{r} -16.4 \\ 30 \end{array} \quad \begin{array}{r} -18.7 \\ 45 \end{array}$$

17

$$\begin{array}{r} +30.2 \\ 40 \end{array} \quad \begin{array}{r} +162 \\ 22 \end{array} \quad 176.5 \quad \begin{array}{r} -11.1 \\ 22 \end{array} \quad \begin{array}{r} -12.6 \\ 25 \end{array}$$

16 + 56.94 BC.

$$\begin{array}{r} +33.5 \\ 40 \end{array} \quad \begin{array}{r} +14.5 \\ 20 \end{array} \quad 177.1 \quad \begin{array}{r} -8.1 \\ 20 \end{array} \quad \begin{array}{r} -10.2 \\ 25 \end{array}$$

23

+50

$$+ \frac{21.0}{40} + \frac{10.5}{20} \quad 208.8 \quad - \frac{12.4}{20} \quad - \frac{29.1}{50}$$

27

+50

$$+ \frac{21.1}{40} + \frac{9.7}{20} \quad 207.1 \quad - \frac{12.4}{25} \quad - \frac{30.0}{55}$$

21

+50

$$+ \frac{20.6}{40} + \frac{9.4}{20} \quad 203.9 \quad - \frac{9.1}{20} \quad - \frac{18.8}{25} \quad - \frac{27.4}{55}$$

20

+54

$$+ \frac{20.4}{40} + \frac{9.1}{20} \quad 202.3 \quad - \frac{6.0}{20} \quad - \frac{13.5}{40} \quad - \frac{21.7}{55}$$

$$+ \frac{18.8}{40} + \frac{8.0}{20} \quad 197.7 \quad - \frac{6.5}{20} \quad - \frac{12.4}{40} \quad - \frac{20.6}{55}$$

$$+ \frac{17.7}{40} + \frac{7.3}{20} \quad 196.1 \quad - \frac{6.7}{20} \quad - \frac{12.7}{40} \quad - \frac{18.0}{50}$$

$$+ \frac{8.1}{40} + \frac{9.0}{30} \quad 194.5 \quad - \frac{12.4}{40} \quad - \frac{15.6}{25}$$

$$+ \frac{4.0}{40} + \frac{5.1}{20} \quad 192.1 \quad - \frac{8.6}{25} \quad - \frac{13.3}{55} \quad - \frac{19.3}{25}$$

$$+ \frac{5.5}{55} + \frac{2.7}{25} \quad 181.6 \quad - \frac{3.0}{30} \quad - \frac{8.5}{55}$$

19150 Culv. #, 30" Radial

+70

$$\begin{array}{r} +11.4 \\ 40 \end{array} \quad \begin{array}{r} +60 \\ 20 \end{array} \quad 212.8 \quad \begin{array}{r} -80 \\ 25 \end{array} \quad \begin{array}{r} -16.7 \\ 50 \end{array}$$

+60

$$\begin{array}{r} +16.4 \\ 40 \end{array} \quad \begin{array}{r} +8.1 \\ 20 \end{array} \quad 210.7 \quad \begin{array}{r} -7.0 \\ 50 \end{array} \quad \begin{array}{r} -14.7 \\ 50 \end{array}$$

+50

$$\begin{array}{r} +15.4 \\ 40 \end{array} \quad \begin{array}{r} +70 \\ 30 \end{array} \quad 214.4 \quad \begin{array}{r} -8.3 \\ 25 \end{array} \quad \begin{array}{r} -16.0 \\ 50 \end{array}$$

+20

$$\begin{array}{r} +14.8 \\ 40 \end{array} \quad \begin{array}{r} +70 \\ 30 \end{array} \quad 211.7 \quad \begin{array}{r} -7.7 \\ 25 \end{array} \quad \begin{array}{r} -17.8 \\ 50 \end{array}$$

25

$$\begin{array}{r} +11.4 \\ 40 \end{array} \quad \begin{array}{r} +4.4 \\ 20 \end{array} \quad 208.9 \quad \begin{array}{r} -8.4 \\ 30 \end{array} \quad \begin{array}{r} -14.6 \\ 50 \end{array}$$

+90

$$\begin{array}{r} +15.4 \\ 40 \end{array} \quad \begin{array}{r} +60 \\ 30 \end{array} \quad 209.3 \quad \begin{array}{r} -8.5 \\ 30 \end{array} \quad \begin{array}{r} -14.4 \\ 50 \end{array}$$

+50

$$\begin{array}{r} +17.8 \\ 40 \end{array} \quad \begin{array}{r} +74 \\ 50 \end{array} \quad 212.7 \quad \begin{array}{r} -6.5 \\ 20 \end{array} \quad \begin{array}{r} -21.7 \\ 50 \end{array}$$

24

$$\begin{array}{r} +20.7 \\ 40 \end{array} \quad \begin{array}{r} +90 \\ 30 \end{array} \quad 212.0 \quad \begin{array}{r} -8.4 \\ 20 \end{array} \quad \begin{array}{r} -22.2 \\ 50 \end{array}$$

23 +50

$$\begin{array}{r} +21.4 \\ 40 \end{array} \quad \begin{array}{r} +95 \\ 30 \end{array} \quad 210.8 \quad \begin{array}{r} -10.5 \\ 25 \end{array} \quad \begin{array}{r} -23.7 \\ 50 \end{array}$$

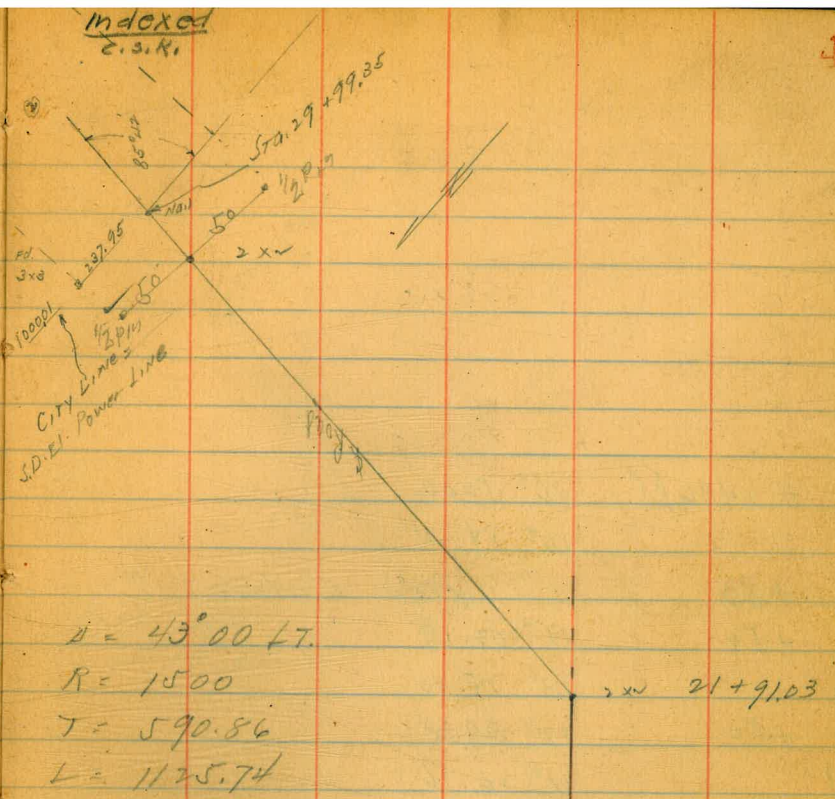
Beginning change of life
Line "A" from p 21

29 + 99.35 = Prob. To City Line

+25.91 = 66.21° 30.00'

27	21° 00.36'
+50	20° 03.06'
26	19° 05.76'
+50	18° 08.46'
25	17° 11.16'
+50	16° 13.86'
24	15° 16.56'
+50	14° 19.26'
23	13° 21.96'
+50	12° 24.66'
22	11° 27.36'
+50	10° 30.06'
21	9° 32.76'
+50	8° 35.46'
20	7° 38.16'
+50	6° 40.86'
19	5° 43.56'
+50	4° 46.26'
18	3° 48.96'
+50	2° 51.66'
17	1° 54.36'
+50	0° 57.06'
16 + 00.17	B.C. Line "A"

19 + 40 Prop. (ult. #)



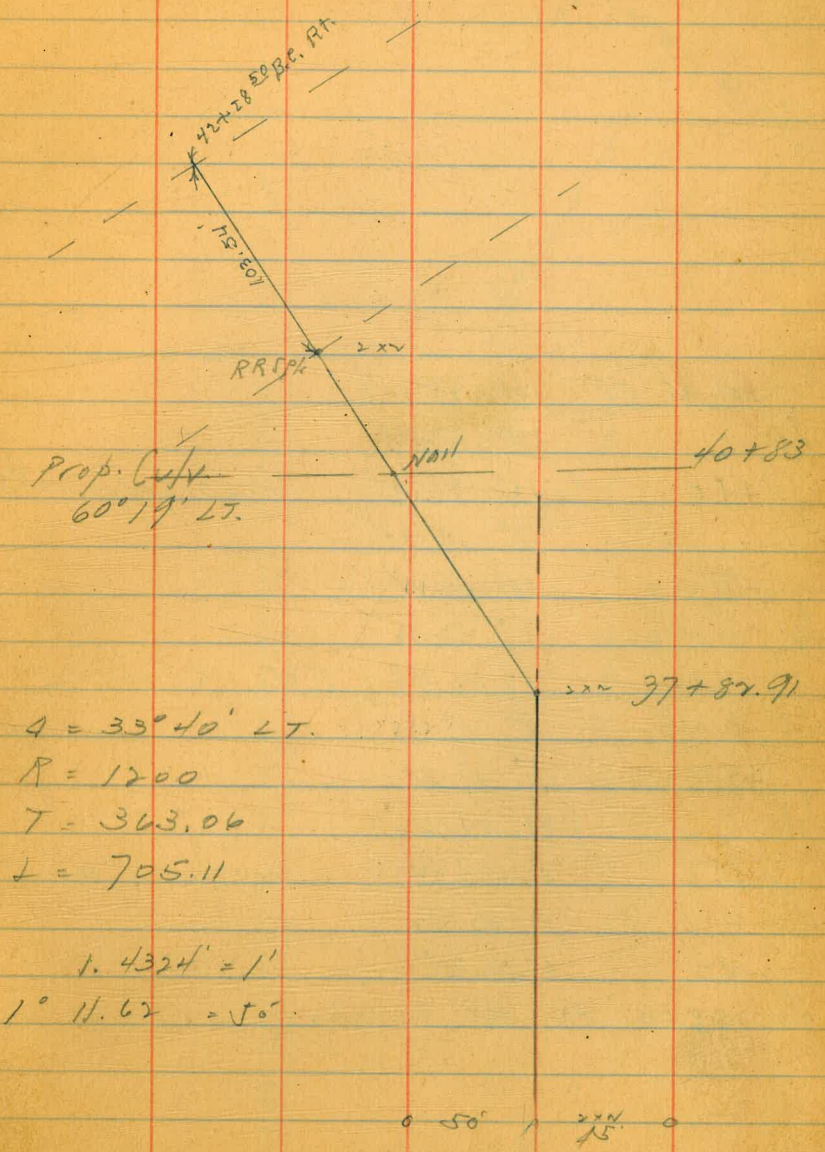
$\Delta = 43^{\circ} 00' \text{ LT.}$
 $R = 1500$
 $T = 590.86$
 $L = 1125.74$

$1.1459 = 1'$
 $0^{\circ} 57.30' = 50'$

760 County

16 99 35 1/2 Pins

	+ 24.96 EC.	16° 50.00'	
41		16° 14.24'	
	+ 83		Prop. Culvert #1
	+ 50	15° 02.69'	
40		13° 15.00'	
	+ 50	12° 39.38'	
39		11° 26.76'	
	+ 50	10° 16.14'	
38		9° 04.52'	
	+ 50	7° 52.90'	
37		6° 41.28'	P.O.C.
	+ 50	5° 29.66'	
36		4° 18.04'	
	+ 50	3° 06.42'	
35		1° 54.81'	
	+ 50	0° 43.18'	
	34+19.85 BC LT.		

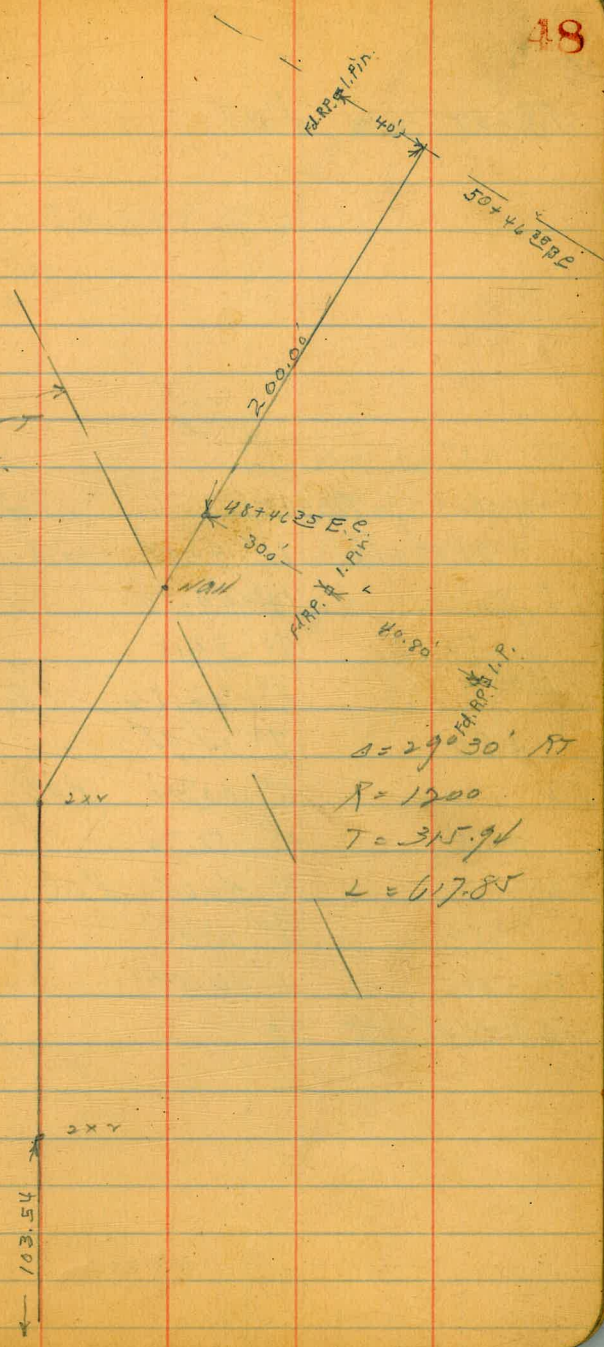


48	+46.35 E.C.	14° 45.00'	
		13° 38.58'	
47	+50	12° 26.96'	Prop. Culvert #3
		11° 15.34'	
	+50	10° 03.72'	
46		8° 52.10'	
	+50	7° 40.48'	POC
45		6° 28.88'	
	+50	5° 17.28'	
44		4° 05.66'	
	+50	2° 54.04'	Prop. Culvert or Road #1
43		1° 42.42'	
	+50	0° 30.80'	
42	+28.50 BC	RT.	

47+50
Prop. Culvert
26° 30' LT.

45+44.44

41 18"



41+24.26 E.C.

58+00 2x4 P.O.T.

2x4 POT 58+00

53+20.03	= Prop. Tie	
+35.04	El.	11° 40.00'
55		10° 49.80'
+50		9° 38.18'
54		8° 26.56'
+50		7° 14.94'
53		6° 03.32'
+50		4° 51.70'
52		3° 40.08'
+50		2° 28.46'
51+00		1° 16.84'
50+46.35	BC	RT

Length of C.T.

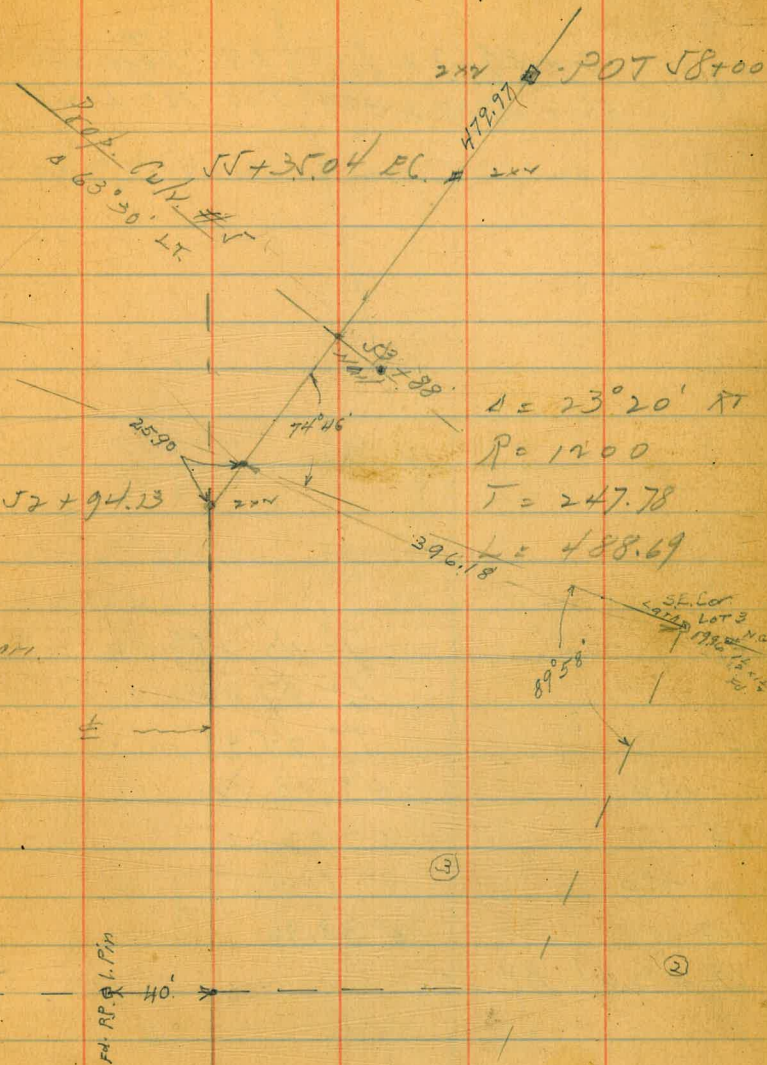
Prop. C.V. 53+38

30" diam.

NE Cor
LOT 3
2x37.5

2175.10
TO HIGHWAY

1/2 IN DIA
ANCHOR BOLTS



FM RP Q L PM

40'

$\Delta = 23^\circ 20' RT$

$R = 1200$

$T = 247.78$

$L = 488.69$

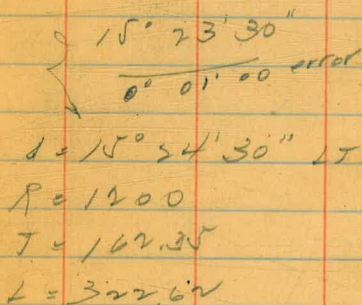
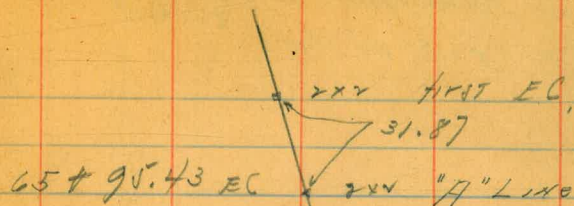
89° 58'

SE Cor
LOT 3
2x37.5

①

②

Eq. $66 + 89.52 = \text{first EC}$ ^{See} page 24
 $66 + 27.30 = \text{STA. POT "H" LINE}$



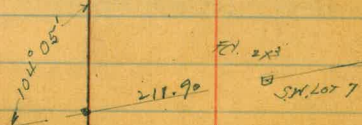
65 + 95.43 EC.	7° 42' 15"
+50	6° 37.08'
65	5° 25.41'
+50	4° 13.84'
64	3° 02.20'
+50	1° 50.58'
63 + 00	0° 38.96'
62 + 72.81 BC LT	

2xx 64 + 35.6

62 + 72.81 BC LT. 2xx

60 + 16.06 Prop. Tie

NW Cor. Lot 8
 0223 Ft.



2xx
 211.90
 SW Lot 7

Levels + Location of Ex. Paving
 on Fairmont 00 = 60.51 + 4.00
 50 + 96.39
 Paving = 3" of Mac.

2 R.O.W. Fairmont 51
 77

17

4 + 00

$\frac{5.04}{18}$

$\frac{1.54}{1}$

3 W = PRC of "Y"

$\frac{5.80}{21}$

$\frac{6.04}{1}$

3

$\frac{6.76}{21}$

$\frac{2.11}{1}$

2 + 00

$\frac{9.21}{21}$

$\frac{9.76}{1}$

1 + 00

$\frac{12.83}{26}$

$\frac{13.00}{2}$

0 - 60.51 Co. EC. 56 + 96.39 = 0 + 00

Edge pair $\frac{15.54}{15.5}$

$\frac{15.04}{3.5}$ = W edge pair

B.M. 10.401 SJO 136.29

130.79

51.4 E of
 0 + 00 PRC
 03 + W
 NE Cor. Cdn.

136.29

Levels on Sky Spur of
at Fairmont & Mission Valley Rd.

LT 2 RT

> +37.48 = 3 + 53.02 EC. see p 39 & 19

> +1.6 $\frac{+0.5}{11}$ $\frac{7.9}{26}$ $\frac{90}{40}$ $\frac{8.0}{120}$

1 + 2/7.33 EC. $\frac{+0.7}{10}$ 0.67 $\frac{4.5}{28}$ $\frac{6.8}{30}$ $\frac{5.9}{45}$

1 + 00 $\frac{3.9}{30}$ $\frac{6.1}{15}$ 5.5 $\frac{3.9}{30}$ $\frac{8.2}{42}$ $\frac{6.9}{70}$

0 + 50 $\frac{7.96}{20}$ 6.52 $\frac{6.3}{27}$ $\frac{5.3}{27}$ $\frac{7.5}{48}$ $\frac{2.1}{24}$

00 = 3 + 55 PRC $\frac{12.86}{29.89}$ $\frac{7.24}{21.69}$ 6.05 $\frac{5.9}{35}$ $\frac{3.1}{45}$ $\frac{100}{5147}$ $\frac{11.21}{52.47}$

13629

FL. CULV Tot No wall

Tot. H/Wall FL. CULV inter

13629

9.4
R = 72.55 in
crack

Xsec of "A" Line
Mission Valley Rd. from p 44

H. L. Pt. Oct. 28-35 53

+50

209.6	201.2	193.1	188.3	179.7
+12.1 40	+8.7 20	4.4	9.8 20	178 50

18+0

209.7	201.4	192.3	184.3	174.4	167.9
+12.2 40	+3.9 20	5.2	13.2 20	23.1 40	29.6 55

T.P.

10.69 197.53 0.44 186.84

197.53

+50

209.1	186.3	166.0	163.7
+21.8 40	1.0	21.3 30	23.6 50

17+0

206.4	191.6	178.5	165.4	163.0
+19.1 40	+4.3 20	8.8	21.9 20	24.3 50

16 +50

202.5	186.6	172.30	164.1	160.5
+15.2 40	0.7 20	15.0	23.2 20	26.8 50

T.P. on Rock 0.44 187.28

186.84 5' RT
17+90
p 33 line

187.28

+ 75

Lt.	L	Rt.
✓ 187.8	186.8	193.7
3.7	10.7	3.8
50	25	5
193.7	189.6	185.7
3.8	7.9	11.8
5	20	50

+ 50

✓ 187.2	185.6	182.3	180.2	177.2
10.3	11.9	15.2	17.3	20.3
50	25		25	50

+ 40 - Prop. Calc.

✓ 187.1	184.8	182.3	179.4	175.2
10.4	12.7	15.2	18.1	22.3
50	25		25	50

+ 15

✓ 193.9	189.3	181.8	178.8	176.9
3.6	8.2	15.7	18.7	21.1
40	20		20	50

1840

✓ 199.7	193.7	187.7	177.4	177.8
7.2	3.8	4.8	20.1	12.7
40	20		25	50

18 + 75

✓ 206.7	199.3	191.8	189.0	183.2	174.9
9.2	7.8	5.7	8.5	14.3	22.6
40	20		10	25	50

197.53

197.53

L

Z

R

22+0

$$\begin{array}{r} \sqrt{235.7} \quad 226.1 \quad 214.7 \quad 203.3 \quad 195.7 \\ +14.8 \quad +5.2 \quad 6.2 \quad 17.6 \quad 25.2 \\ \quad 40 \quad \quad 20 \quad \quad 25 \quad \quad 45 \end{array}$$

TP

13.21 220.87 117 207.66

220.87

+50

$$\begin{array}{r} \sqrt{227.8} \quad 219.2 \quad 208.8 \quad 194.1 \quad 192.3 \\ +21.0 \quad +10.4 \quad 0.0 \quad 9.9 \quad 16.5 \\ \quad 40 \quad \quad 20 \quad \quad 25 \quad \quad 45 \end{array}$$

21+0

$$\begin{array}{r} \sqrt{224.6} \quad 214.8 \quad 204.4 \quad 195.0 \quad 188.9 \\ +15.8 \quad +6.0 \quad 4.4 \quad 13.8 \quad 19.9 \\ \quad 40 \quad \quad 20 \quad \quad 25 \quad \quad 45 \end{array}$$

+50

$$\begin{array}{r} \sqrt{220.3} \quad 211.9 \quad 202.4 \quad 193.6 \quad 187.8 \\ +11.5 \quad +3.1 \quad 6.4 \quad 15.2 \quad 21.0 \\ \quad 40 \quad \quad 20 \quad \quad 25 \quad \quad 45 \end{array}$$

+20

$$\begin{array}{r} \sqrt{216.8} \quad 210.0 \quad 200.5 \quad 192.7 \quad 186.7 \\ +8.0 \quad +1.2 \quad 8.3 \quad 16.1 \quad 22.1 \\ \quad 40 \quad \quad 20 \quad \quad 25 \quad \quad 45 \end{array}$$

TP

11.95 208.83 0.65 196.88

208.83

20+0

$$\begin{array}{r} \sqrt{204.6} \quad 205.2 \quad 198.2 \quad 192.6 \quad 186.0 \\ +7.1 \quad +7.7 \quad +0.7 \quad 4.9 \quad 11.5 \\ \quad 40 \quad \quad 20 \quad \quad 25 \quad \quad 45 \end{array}$$

197.53

197.53

+75

$$\begin{array}{r} \checkmark \quad 234.7 \\ + 32 \\ \hline 40 \end{array} \quad \begin{array}{r} 230.6 \\ + 11 \\ \hline 20 \end{array} \quad \begin{array}{r} 221.6 \\ + 10.1 \\ \hline 25 \end{array} \quad \begin{array}{r} 210.6 \\ + 31.1 \\ \hline 25 \end{array} \quad \begin{array}{r} 205.6 \\ + 26.1 \\ \hline 45 \end{array}$$

+50

$$\checkmark \quad \begin{array}{r} 245.6 \\ + 13.9 \\ \hline 40 \end{array} \quad \begin{array}{r} 235.5 \\ + 3.8 \\ \hline 20 \end{array} \quad \begin{array}{r} 224.1 \\ + 7.6 \\ \hline 25 \end{array} \quad \begin{array}{r} 214.7 \\ + 17.0 \\ \hline 25 \end{array} \quad \begin{array}{r} 207.5 \\ + 24.2 \\ \hline 45 \end{array}$$

24+0

$$\checkmark \quad \begin{array}{r} 245.6 \\ + 13.9 \\ \hline 40 \end{array} \quad \begin{array}{r} 236.7 \\ + 5.0 \\ \hline 20 \end{array} \quad \begin{array}{r} 225.9 \\ + 5.8 \\ \hline 25 \end{array} \quad \begin{array}{r} 214.0 \\ + 17.7 \\ \hline 25 \end{array} \quad \begin{array}{r} 206.0 \\ + 25.7 \\ \hline 45 \end{array}$$

+50

$$\checkmark \quad \begin{array}{r} 245.0 \\ + 13.3 \\ \hline 40 \end{array} \quad \begin{array}{r} 235.9 \\ + 4.2 \\ \hline 20 \end{array} \quad \begin{array}{r} 224.5 \\ + 7.2 \\ \hline 25 \end{array} \quad \begin{array}{r} 212.0 \\ + 19.7 \\ \hline 25 \end{array} \quad \begin{array}{r} 203.2 \\ + 28.5 \\ \hline 45 \end{array}$$

23+0

$$\checkmark \quad \begin{array}{r} 242.4 \\ + 10.7 \\ \hline 40 \end{array} \quad \begin{array}{r} 232.7 \\ + 1.0 \\ \hline 20 \end{array} \quad \begin{array}{r} 221.9 \\ + 9.8 \\ \hline 25 \end{array} \quad \begin{array}{r} 209.1 \\ + 22.6 \\ \hline 25 \end{array} \quad \begin{array}{r} 198.1 \\ + 33.6 \\ \hline 45 \end{array}$$

TP 11.39 231.74 0.52 220.25

231.74

22+50

$$\checkmark \quad \begin{array}{r} 239.9 \\ + 19.0 \\ \hline 40 \end{array} \quad \begin{array}{r} 229.9 \\ + 9.0 \\ \hline 20 \end{array} \quad \begin{array}{r} 218.9 \\ + 2.0 \\ \hline 25 \end{array} \quad \begin{array}{r} 206.10 \\ + 14.8 \\ \hline 25 \end{array} \quad \begin{array}{r} 195.2 \\ + 25.7 \\ \hline 45 \end{array}$$

220.87

220.87

27+0

+50

26+0

+50

TP

9.52

232.42

8.84

222.90

25+0.5

24+90

231.74

Lt.

A

Rt.

57.
Oct. 29.35

✓ 247.7 239.5 228.4 217.3 207.9
 +15.3 +7.1 4.0 15.1 24.5
 40' 30' 20' 20' 45'

✓ 248.0 237.4 225.8 217.1 208.1
 +15.6 +5.0 6.6 15.3 24.8
 40' 30' 20' 20' 45'

✓ 246.4 235.2 224.4 217.6 209.8
 +14.0 +2.8 8.0 14.8 22.5
 40' 30' 20' 20' 45'

✓ 244.6 232.9 223.5 213.8 209.3
 +12.2 +0.5 8.9 18.6 23.1
 40' 30' 25' 25' 45'

232.42

✓ 240.0 230.0 222.5 214.3 207.2
 +8.3 1.7 9.2 17.4 24.5
 40' 30' 25' 25' 45'

✓ 241.1 224.1 217.1 210.6 205.1
 +9.4 7.6 14.6 21.1 26.6
 40' 30' 25' 25' 45'

231.74

Lt

S

Pt

+09

✓	<u>227.2</u>	<u>221.4</u>	<u>217.1</u>	<u>213.1</u>	<u>213.8</u>
	9.3 45	15.1 20	18.4	23.4 20	22.7 45

28+0

✓	<u>232.2</u>	<u>223.4</u>	<u>217.1</u>	<u>213.1</u>	<u>212.3</u>
	4.3 40	13.1 20	17.4	23.4 20	24.2 45

+80

✓	<u>243.8</u>	<u>235.7</u>	<u>225.7</u>	<u>216.5</u>	<u>206.5</u>
	7.3 40	9.8 20	10.8	20.0 20	30.0 45

+50

✓	<u>247.8</u>	<u>238.7</u>	<u>228.5</u>	<u>218.7</u>	<u>209.7</u>
	+11.3 40	+2.2 20	8.0	17.8 20	26.6 45

37+25.91 F.C.

✓	<u>248.3</u>	<u>240.2</u>	<u>229.1</u>	<u>218.3</u>	<u>208.8</u>
	+11.8 40	+3.7 20	7.4	18.2 20	27.7 45

TP

7.45

236.45

3.42

229.00

 0.5% Hub
 37+25.91

236.45

232.42

232.42

TP 12.23 246.76 1.92 234.53

30+0

✓ $\begin{array}{r} 256.3 \\ +19.8 \\ \hline 276.1 \\ 40 \end{array}$ $\begin{array}{r} 247.3 \\ +10.8 \\ \hline 258.1 \\ 20 \end{array}$ $\begin{array}{r} 238.1 \\ +1.6 \\ \hline 239.7 \\ 20 \end{array}$ $\begin{array}{r} 227.1 \\ +9.4 \\ \hline 236.5 \\ 20 \end{array}$ $\begin{array}{r} 215.9 \\ +20.6 \\ \hline 236.5 \\ 25 \end{array}$ $\begin{array}{r} 203.3 \\ +33.2 \\ \hline 236.5 \\ 50 \end{array}$

+50

✓ $\begin{array}{r} 252.7 \\ +16.2 \\ \hline 268.9 \\ 40 \end{array}$ $\begin{array}{r} 243.9 \\ +7.1 \\ \hline 251.0 \\ 20 \end{array}$ $\begin{array}{r} 233.9 \\ +2.6 \\ \hline 236.5 \\ 20 \end{array}$ $\begin{array}{r} 221.4 \\ +15.1 \\ \hline 236.5 \\ 20 \end{array}$ $\begin{array}{r} 205.0 \\ +31.5 \\ \hline 236.5 \\ 15 \end{array}$

29+0

✓ $\begin{array}{r} 250.3 \\ +13.8 \\ \hline 264.1 \\ 40 \end{array}$ $\begin{array}{r} 242.1 \\ +5.6 \\ \hline 247.7 \\ 20 \end{array}$ $\begin{array}{r} 232.5 \\ +4.0 \\ \hline 236.5 \\ 20 \end{array}$ $\begin{array}{r} 222.0 \\ +14.5 \\ \hline 236.5 \\ 20 \end{array}$ $\begin{array}{r} 209.5 \\ +27.0 \\ \hline 236.5 \\ 15 \end{array}$

+50

✓ $\begin{array}{r} 243.9 \\ +7.4 \\ \hline 251.3 \\ 40 \end{array}$ $\begin{array}{r} 236.5 \\ +0.0 \\ \hline 236.5 \\ 20 \end{array}$ $\begin{array}{r} 227.4 \\ +9.1 \\ \hline 236.5 \\ 20 \end{array}$ $\begin{array}{r} 220.8 \\ +15.7 \\ \hline 236.5 \\ 20 \end{array}$ $\begin{array}{r} 212.9 \\ +23.6 \\ \hline 236.5 \\ 15 \end{array}$

28+20

✓ $\begin{array}{r} 226.5 \\ +10.0 \\ \hline 236.5 \\ 45 \end{array}$ $\begin{array}{r} 224.7 \\ +11.8 \\ \hline 236.5 \\ 20 \end{array}$ $\begin{array}{r} 222.5 \\ +14.0 \\ \hline 236.5 \\ 20 \end{array}$ $\begin{array}{r} 218.7 \\ +17.8 \\ \hline 236.5 \\ 20 \end{array}$ $\begin{array}{r} 212.9 \\ +23.6 \\ \hline 236.5 \\ 15 \end{array}$

236.45

236.45

+90

$$\begin{array}{r} \checkmark \quad 250.0 \quad 248.5 \quad 246.1 \quad 242.3 \quad 234.8 \\ \quad 3.8 \quad \quad 5.8 \quad \quad 7.7 \quad \quad 11.5 \quad \quad 19.0 \\ \quad 40 \quad \quad 20 \quad \quad 20 \quad \quad 20 \quad \quad 45 \end{array}$$

+60

$$\begin{array}{r} \checkmark \quad 232.6 \quad 227.4 \quad 224.7 \quad 222.8 \quad 218.6 \\ \quad 3.2 \quad \quad 3.4 \quad \quad 2.9 \quad \quad 2.0 \quad \quad 3.5 \\ \quad 50 \quad \quad 20 \quad \quad 20 \quad \quad 20 \quad \quad 55 \end{array}$$

+50

$$\begin{array}{r} \checkmark \quad 237.6 \quad 230.3 \quad 228.2 \quad 223.8 \quad 215.8 \\ \quad 16.2 \quad \quad 23.5 \quad \quad 25.6 \quad \quad 30.0 \quad \quad 38.0 \\ \quad 50 \quad \quad 20 \quad \quad 20 \quad \quad 20 \quad \quad 35 \end{array}$$

TP

9.19

253.79

2.16

244.60

on 20 stock
31+0

253.79

+25

$$\begin{array}{r} \checkmark \quad 251.3 \quad 246.2 \quad 242.2 \quad 236.7 \quad 225.0 \\ \quad 4.5 \quad \quad 0.6 \quad \quad 4.6 \quad \quad 10.1 \quad \quad 31.8 \\ \quad 40 \quad \quad 20 \quad \quad 20 \quad \quad 20 \quad \quad 45 \end{array}$$

31+0

$$\begin{array}{r} \checkmark \quad 263.8 \quad 250.1 \quad 244.5 \quad 237.5 \quad 226.0 \\ \quad 11.0 \quad \quad 13.3 \quad \quad 2.3 \quad \quad 9.3 \quad \quad 20.8 \\ \quad 40 \quad \quad 20 \quad \quad 20 \quad \quad 20 \quad \quad 45 \end{array}$$

30+50

$$\begin{array}{r} \checkmark \quad 259.2 \quad 250.3 \quad 242.7 \quad 231.8 \quad 211.3 \\ \quad 13.4 \quad \quad 13.5 \quad \quad 4.1 \quad \quad 15.0 \quad \quad 35.5 \\ \quad 40 \quad \quad 20 \quad \quad 20 \quad \quad 20 \quad \quad 50 \end{array}$$

246.76

246.76

Lt

S

Rt

TP 12.70 304.20 0.27 291.50 ^{07 2 Stake}
3470 3470

✓ 312.0 302.8 291.1 282.2 271.0
+20.2 +11.0 0.7 9.6 20.8
40 20 20 15

+50

✓ 302.0 293.5 285.5 276.5 265.0
+10.2 +11.7 6.3 15.3 26.8
40 20 20 45

TP 13.05 291.77 0.86 278.72

291.77

3370

✓ 290.6 276.1 274.0 265.4 255.2
+11.0 +3.5 5.6 14.2 24.4
40 20 20 45

TP 12.78 279.58 0.17 266.80

279.58

+50

✓ 278.3 270.2 265.1 255.8 247.0
+11.3 +3.2 3.9 11.2 20.0
40 20 20 50

TP 18.19 266.97 0.01 253.78

266.97

BM #3

6.79 247.00 ^{07 2x2 R/H Hub}
50' Rt. 32+50

3270

✓ 257.0 253.0 249.6 244.6 237.9
+3.2 0.8 4.2 9.2 15.9
40 20 20 45

253.79

253.79

+50

✓	<u>300.0</u>	<u>292.8</u>	<u>287.1</u>	<u>280.4</u>	<u>269.9</u>
	42	14.4	17.1	23.8	34.3
	40	20		20	45

+30

✓	<u>297.6</u>	<u>289.9</u>	<u>284.9</u>	<u>276.7</u>	<u>267.5</u>
	66	14.3	19.3	27.5	36.7
	40	20		20	45

+20

✓	<u>300.2</u>	<u>294.2</u>	<u>286.9</u>	<u>279.1</u>	<u>269.5</u>
	40	10.0	17.3	25.1	34.7
	40	20		20	45

35+0

✓	<u>305.7</u>	<u>297.7</u>	<u>289.1</u>	<u>280.4</u>	<u>270.9</u>
	+1.5	6.5	15.1	23.8	33.3
	40	20		20	45

+50

✓	<u>313.9</u>	<u>303.9</u>	<u>293.7</u>	<u>284.9</u>	<u>275.2</u>
	+9.9	0.3	10.5	19.3	29.0
	40	20		20	45

34+19.85 B.C. Lt

✓	<u>312.50</u>	<u>303.7</u>	<u>293.7</u>	<u>284.3</u>	<u>273.9</u>
	+8.3	0.5	10.45	19.9	30.3
	40	20	on Hub	20	45

304.20

304.20

+50

TP 473 288.78 12.75 284.05

38+0

+50

TP 492 296.80 12.32 291.88

39+0

+50

36+0

304.20

✓	<u>296.4</u>	<u>288.0</u>	<u>278.7</u>	<u>269.7</u>	<u>259.6</u>
	+7.6	0.8	10.1	19.1	29.2
	40	20		20	45
			288.78		

✓	<u>301.0</u>	<u>291.5</u>	<u>282.6</u>	<u>272.9</u>	<u>261.9</u>
	+4.2	5.3	14.2	23.9	34.9
	40	20		20	45

✓	<u>306.0</u>	<u>296.0</u>	<u>286.6</u>	<u>278.1</u>	<u>265.8</u>
	+9.2	0.8	10.2	18.7	31.0
	40	20		20	45
			296.80		

✓	<u>308.4</u>	<u>297.9</u>	<u>287.2</u>	<u>277.1</u>	<u>263.8</u>
	+4.2	6.3	17.0	27.1	40.4
	40	20		20	45

✓	<u>304.0</u>	<u>294.9</u>	<u>284.9</u>	<u>276.6</u>	<u>264.6</u>
	0.2	9.3	19.3	27.6	39.6
	40	20		20	45

✓	<u>304.6</u>	<u>296.4</u>	<u>287.3</u>	<u>278.0</u>	<u>266.3</u>
	+0.4	7.8	16.9	26.2	37.9
	40	20		20	45

304.20

Lt.

S

Rt.

+83 = Prop Culy. Taken on May 18"

<u>260.1</u>	<u>255.0</u>	<u>253.7</u>	<u>252.9</u>	<u>249.0</u>	248.8
30.3 80.	35.4 20.	26.7	27.5 20.	31.4 80	31.6 90.

+83

<u>265.7</u>	<u>258.0</u>	<u>253.7</u>	<u>253.0</u>	<u>253.9</u>
14.7 60.	32.4 20.	26.7	27.4 20.	26.5 60.

+50

<u>274.4</u>	<u>268.7</u>	<u>263.4</u>	<u>258.6</u>	<u>249.6</u>
60 40.	11.7 20.	17.0	21.8 20.	30.8 55 got work

4040

<u>283.6</u>	<u>278.3</u>	<u>272.0</u>	<u>265.3</u>	<u>256.0</u>
+32. 40.	2.1 20.	8.4	15.1 20.	24.4 30.

TP

437 280.39 12.76 276.02

280.39

+50

<u>289.3</u>	<u>282.2</u>	<u>276.4</u>	<u>271.0</u>	<u>263.6</u>
+11. 40.	6.6 20.	12.4	17.8 20.	25.2 45.

3940

<u>293.7</u>	<u>286.4</u>	<u>278.4</u>	<u>271.3</u>	<u>262.2</u>
+4.9 40.	8.4 20.	10.4	17.5 20.	26.6 45.

288.78

288.78

Lt

L

Rt

+ 50

✓	<u>287.8</u>	<u>285.5</u>	<u>283.2</u>	<u>279.8</u>	<u>277.5</u>
	+11 45'	1.2 25'	3.5	6.9 25'	9.2 45'

+ 3850 BC Rt

✓	<u>285.8</u>	<u>284.0</u>	<u>281.76</u>	<u>279.1</u>	<u>277.9</u>
	0.9 45'	2.7 25'	4.93 07/11/23	7.6 25'	8.8 45'

TP 7.38 286.69 1.08 279.31

286.69

+ 2 + 0

✓	<u>280.6</u>	<u>280.0</u>	<u>278.6</u>	<u>276.8</u>	<u>275.4</u>
	+0.2 45'	0.4 25'	1.8	3.6 25'	5.8 45'

+ 50

✓	<u>270.3</u>	<u>271.2</u>	<u>271.3</u>	<u>270.9</u>	<u>270.4</u>
	+0.1 45'	3.2 25'	9.1	9.5 25'	10.0 45'

+ 24.96 FC

✓	<u>263.2</u>	<u>265.2</u>	<u>266.72</u>	<u>267.6</u>	<u>269.0</u>
	+7.2 50'	15.2 25'	13.67 07/11/23	12.8 25'	11.4 45'

+ 1 + 0

✓	<u>261.8</u>	<u>257.9</u>	<u>260.0</u>	<u>261.2</u>	<u>262.9</u>
	+1.6 55'	22.5 25'	20.4	19.2 20'	17.5 45'

280.39

280.39

+50

TP 10.05 308.62 0.35 298.57

45+0

+50

TP 12.91 298.92 0.68 286.01

44+0

+50 = Prop Cult. on Radial Line 18"

43+0

286.69

✓	310.3	306.3	301.3	292.6	280.8
	+1.7	2.3	7.3	16.0	27.8
	40'	20'		25'	55'
			308.62		

✓	307.5	304.5	299.9	294.0	287.6
	+8.6	+5.6	+1.0	4.9	11.3
	40'	20'		25'	45'

✓	294.0	292.4	291.3	288.0	283.8
	4.9	6.5	7.6	10.9	15.1
	40'	20'		25'	45'
			298.92		

✓	282.0	280.4	279.6	278.9	277.1
	4.7	6.3	7.1	7.2	9.6
	45'	25'		25'	45'

✓	273.0	271.9	270.3	268.6	266.3
	13.7	14.8	16.4	18.1	20.4
	50'	25'		25'	50'

✓	285.8	283.5	280.6	278.0	275.5
	0.9	3.2	6.1	8.7	11.2
	45'	25'		25'	45'

286.69

TP 13.08 270.23 1.47 307.15

291.8 286.8 280.3
 16.8 21.8 28.3
 120' 135' 145' = Bot. Wall

+50 = Prop. Cuts Taken on Day 18"

302.6 305.6 301.3 300.8 298.6 295.5 294.9 291.8 287.4 287.4 290.9
 6.0 8.0 7.3 7.8 10.0 13.1 13.7 16.8 21.2 21.2 17.7
 105' 98' 78' 50' 25' 13.1 25' 50' 75' 70' 100'

+50

✓ 311.3 301.7 295.5 306.9 318.0
 +2.7 6.9 Bot. Wall 1.7 +9.4
 40' 20' 20' 40'

+70

✓ 316.1 306.4 297.0 291.7 305.9
 +7.5 2.2 11.6 16.9 2.7
 40' 20' 20' 20' 45'
 Bot. Wall

+50

✓ 317.3 308.2 297.2 288.2 286.0 295.3
 +8.7 0.4 11.4 20.4 22.6 13.3
 40' 20' 20' 20' 33' 50'
 Bot. Wall

+60

✓ 304.9 297.5 292.3 286.5 280.6
 3.7 11.1 16.3 22.1 28.0
 40' 20' 25' 25' 55' = Bot. Wall

308.62

308.62

TP 13.10 370.23 0.07 357.13

+50

TP 12.99 357.20 1.33 344.21

49+0

BM #4

9.77 325.77

072' x 21' P.W.W.
50 ft 98' 4 3/8

TP 13.11 345.54 0.32 332.43

+46.35 E.C.

TP 13.21 332.75 0.69 319.54

+25

48+0

320.23

1st

2

RT

68

Oct. 31-35

48+0

√	351.4	353.3	354.7	357.4	360.1
	5.8	3.9	2.5	1.0	1.9
	40	20	357.20	25	20

√	331.1	337.7	342.5	342.9	344.0
	14.4	7.8	3.0	2.6	1.5
	45	20	30	20	40

345.54

√	307.8	304.1	308.4	320.1	325.54	330.5	334.2
	25.5	28.7	24.4	12.7	7.8	2.3	1.4
	60	52	45	20	on Hub	20	40

332.75

√	308.8	302.2	309.8	319.0	326.0	310.6
	11.4	18.0	10.4	1.2	1.8	9.6
	60	60	25	30	20	40

√	309.4	303.5	300.2	307.9	314.1	324.2
	10.8	14.7	20.0	12.3	6.1	1.4
	50	40	30.0	20	20	40

320.23

TP 0.31 357.36 13.18 357.05

+50

52+0

+75

+50

51+0

+46.35 B.C. R.

50+0

370.23

Lt.

S

Rt.

✓	<u>362.8</u> 7.4 40	<u>358.6</u> 11.6 20	<u>353.9</u> 16.3	<u>348.6</u> 21.6 20	<u>333.8</u> 36.4 45
✓	<u>369.5</u> 0.7 40	<u>364.1</u> 6.1 20	<u>360.3</u> 9.9	<u>355.5</u> 14.7 20	<u>347.9</u> 22.3 45
✓	<u>373.1</u> 4.2 40	<u>366.9</u> 3.3 20	<u>364.7</u> 5.5	<u>359.9</u> 10.3 20	<u>350.0</u> 20.2 40
✓	<u>376.8</u> 6.6 40	<u>370.4</u> 10.2 20	<u>364.4</u> 5.8	<u>358.9</u> 11.3 20	<u>354.0</u> 16.2 40
✓	<u>378.1</u> 7.9 40	<u>371.9</u> 11.7 20	<u>366.7</u> 3.5	<u>362.2</u> 8.0 20	<u>357.9</u> 12.3 40
✓	<u>373.9</u> 4.7 40	<u>370.9</u> 10.7 20	<u>367.46</u> 2.77 on Hub	<u>363.6</u> 6.6 20	<u>360.0</u> 10.2 40
✓	<u>365.5</u> 4.7 40	<u>365.5</u> 4.7 20	<u>364.9</u> 5.3	<u>362.7</u> 7.5 20	<u>359.6</u> 10.6 40

370.23

Lt. & Rt

$\sqrt{317.8 \quad 319.5 \quad 318.3 \quad 317.1 \quad 316.5}$
 1.51 1.84 1.46 1.58 1.64
 80 85 80 35
 Bot West

+25

$313.4 \quad 319.4 \quad 325.2$
 1.95 1.35 1.7
 38 38 75

$\sqrt{325.4 \quad 317.5 \quad 315.9 \quad 314.9 \quad 311.6 \quad 310.5 \quad 313.6 \quad 315.4}$
 7.5 1.54 1.0 1.80 2.13 2.24 1.93 1.75
 70 55 20 35 43 50 70
 Bot West

5470

$\sqrt{317.7 \quad 316.2 \quad 316.5 \quad 315.6 \quad 310.2 \quad 308.0 \quad 309.2 \quad 307.8}$
 1.52 1.67 1.4 1.73 2.27 2.49 2.37 2.51
 80 50 30 35 50 60 80
 Bot West

53788 = Prop Calv. Taken at 11:29 30"

$\sqrt{331.5 \quad 327.5 \quad 322.3 \quad 316.9 \quad 300.9 \quad 298.9 \quad 301.5 \quad 301.9}$
 1.4 1.54 1.06 1.60 3.20 3.40 3.14 3.10
 85 50 25 30 30 43 Bot West 75

+75

TP 0.56 332.88 12.73 332.32

332.88

TP 0.63 345.05 12.94 344.42

$\sqrt{341.8 \quad 338.7 \quad 333.1 \quad 327.3}$
 1.56 1.87 2.43 3.01
 50 40 20
 Bot West

+50

$\sqrt{350.1 \quad 345.1 \quad 339.4 \quad 332.1 \quad 321.5 \quad 307.2 \quad 308.1}$
 7.3 1.23 1.80 2.53 3.57 5.02 4.93
 40 20 20 40 40 85 75
 Bot West

+25

$\sqrt{356.1 \quad 351.9 \quad 346.6 \quad 337.4 \quad 327.4 \quad 315.9}$
 1.3 1.55 1.98 2.00 3.00 4.15
 40 20 20 40 60

5370

357.36

357.36

+50

5670

+50

TP 13.15 381.53 0.76 368.38

+35.04 F.C.

5570

TP 12.66 369.14 1.56 356.48

TP 13.10 358.04 0.50 344.94

TP 13.14 345.44 0.58 332.30

54+50

332.88

Lt.

S

Rt

✓ $\begin{array}{r} 384.9 \\ 13.4 \\ 40 \end{array}$ $\begin{array}{r} 383.0 \\ +1.5 \\ 20 \end{array}$ $\begin{array}{r} 380.6 \\ 0.9 \\ 20 \end{array}$ $\begin{array}{r} 377.7 \\ 3.8 \\ 20 \end{array}$ $\begin{array}{r} 374.1 \\ 7.4 \\ 45 \end{array}$

✓ $\begin{array}{r} 378.1 \\ 3.4 \\ 40 \end{array}$ $\begin{array}{r} 376.3 \\ 5.2 \\ 20 \end{array}$ $\begin{array}{r} 375.8 \\ 5.7 \\ 20 \end{array}$ $\begin{array}{r} 373.8 \\ 7.7 \\ 20 \end{array}$ $\begin{array}{r} 370.7 \\ 10.8 \\ 45 \end{array}$

✓ $\begin{array}{r} 371.5 \\ 10.0 \\ 40 \end{array}$ $\begin{array}{r} 371.3 \\ 10.2 \\ 20 \end{array}$ $\begin{array}{r} 369.8 \\ 11.7 \\ 20 \end{array}$ $\begin{array}{r} 368.7 \\ 12.8 \\ 20 \end{array}$ $\begin{array}{r} 367.6 \\ 13.9 \\ 40 \end{array}$

381.53

✓ $\begin{array}{r} 368.1 \\ 1.0 \\ 40 \end{array}$ $\begin{array}{r} 368.8 \\ 0.3 \\ 25 \end{array}$ $\begin{array}{r} 368.39 \\ 0.75 \\ 20 \end{array}$ $\begin{array}{r} 367.3 \\ 1.8 \\ 25 \end{array}$ $\begin{array}{r} 365.8 \\ 3.8 \\ 40 \end{array}$

✓ $\begin{array}{r} 341.9 \\ 27.2 \\ 40 \end{array}$ $\begin{array}{r} 348.1 \\ 21.0 \\ 40 \end{array}$ $\begin{array}{r} 354.9 \\ 14.2 \\ 20 \end{array}$ $\begin{array}{r} 359.9 \\ 9.2 \\ 20 \end{array}$ $\begin{array}{r} 361.0 \\ 8.1 \\ 25 \end{array}$ $\begin{array}{r} 360.4 \\ 8.7 \\ 45 \end{array}$

369.14

✓ $\begin{array}{r} 320.5 \\ 12.4 \\ 30 \end{array}$ $\begin{array}{r} 318.5 \\ 14.4 \\ 50 \end{array}$ $\begin{array}{r} 321.4 \\ 11.5 \\ 25 \end{array}$ $\begin{array}{r} 328.3 \\ 46.43 \\ 10 \end{array}$ $\begin{array}{r} 328.6 \\ 0.8 \\ 20 \end{array}$ $\begin{array}{r} 332.1 \\ +5.9 \\ 40 \end{array}$ $\begin{array}{r} 337.9 \\ +8.2 \\ 60 \end{array}$ $\begin{array}{r} 341.1 \end{array}$

332.88

lt 2 pt

60+0

✓	<u>415.5</u>	<u>411.7</u>	<u>405.0</u>	<u>396.7</u>	<u>387.7</u>
	+10.8	+7.0	+0.3	8.0	17.0
	40	20		25	50

+50

✓	<u>410.7</u>	<u>406.1</u>	<u>400.5</u>	<u>392.8</u>	<u>387.1</u>
	+6.0	+14	4.2	11.9	17.6
	40	20		25	45

59+0

✓	<u>408.4</u>	<u>403.7</u>	<u>399.3</u>	<u>393.2</u>	<u>388.2</u>
	+3.7	1.0	5.4	11.5	16.5
	40	20		25	45

+50

✓	<u>405.8</u>	<u>401.4</u>	<u>396.3</u>	<u>391.9</u>	<u>386.9</u>
	+11	3.3	8.4	12.8	17.8
	40	20		20	45

TP 12.48 404.73 1.21 392.25

404.73

58+0

✓	<u>403.5</u>	<u>398.5</u>	<u>393.4</u>	<u>387.8</u>	<u>383.0</u>
	+10.0	+5.0	0.1	5.7	10.5
	40	20		25	45

+50

✓	<u>397.8</u>	<u>393.8</u>	<u>389.8</u>	<u>384.9</u>	<u>380.9</u>
	+4.3	+0.3	3.7	8.6	12.6
	40	20		20	45

57+0

✓	<u>391.4</u>	<u>390.8</u>	<u>386.0</u>	<u>382.4</u>	<u>378.2</u>
	2.1	2.7	7.5	11.1	15.3
	40	20		20	45

TP 12.17 393.46 0.24 381.29

393.46

381.53

Lt. Δ Ft

+50

✓	<u>443.3</u>	<u>441.8</u>	<u>441.4</u>	<u>440.3</u>	<u>438.7</u>
	9.1	10.6	11.0	12.1	13.7
	40	20		20	40

TP 11.46 452.37 0.32 440.91

452.37

6270

✓	<u>439.4</u>	<u>438.5</u>	<u>438.0</u>	<u>436.5</u>	<u>435.8</u>
	1.8	3.7	3.2	4.7	5.4
	40	20		20	20

+70

✓	<u>435.7</u>	<u>436.5</u>	<u>434.7</u>	<u>432.1</u>	<u>430.5</u>
	5.5	4.7	6.5	9.1	10.7
	40	20		20	40

+50

✓	<u>430.0</u>	<u>426.7</u>	<u>428.50</u>	<u>429.0</u>	<u>429.4</u>	<u>428.0</u>
	11.2	14.5	12.7	12.2	11.8	13.2
	40	30	20		20	40

TP 12.80 441.23 0.43 428.43

441.23

6140

✓	<u>424.9</u>	<u>419.9</u>	<u>415.7</u>	<u>417.7</u>	<u>418.8</u>
	4.0	9.0	13.2	11.8	10.1
	40	20		20	40

TP 12.55 428.86 0.41 416.31

428.86

60+50

✓	<u>421.5</u>	<u>416.5</u>	<u>409.5</u>	<u>401.2</u>	<u>395.2</u>	<u>398.8</u>
	+4.8	0.2	7.2	15.5	21.5	17.9
	40	20		25	40	50

TP 13.14 416.72 1.15 403.58

416.72

404.73

361.7625

Lt Z Rt

BM #5 8.86 451.65 ^{0.78 x 2 RW Hub} 50 Rt 65 + 95.23

7.13 460.51 453.38 ^{0.78 Hub} 66 + 89.5250 Page 36

+50

✓ 451.3 451.0 450.7 450.8 450.3
9.3 9.6 9.9 9.8 10.3
40 20 20 20 40

TP 10.72 460.61 2.48 449.89

460.61

65+0

✓ 450.1 450.3 449.0 448.5 448.7
2.3 2.1 3.4 3.9 3.7
40 20 20 20 40

+50

✓ 448.4 448.4 447.9 447.2 446.9
4.0 4.0 4.5 5.2 5.8
40 20 20 20 40

64+0

✓ 447.5 446.8 447.2 446.1 444.6
4.9 5.6 5.2 6.3 7.8
40 20 20 20 40

+50

✓ 446.5 445.9 445.0 444.0 443.3
5.9 6.5 7.4 8.4 9.1
40 20 20 20 40

63+0

✓ 445.0 444.1 443.4 442.6 442.4
7.4 8.3 9.0 9.8 10.0
40 20 20 20 40

62+72.81 B.C Lt

✓ 444.3 443.0 443.74 442.7 441.3
8.1 9.4 8.63 9.7 11.1
40 20 0.075 20 40

452.37

452.37

Lt.

E

Rt.

+ 50

✓	456.6	457.6	456.2	456.5	456.4
	$\frac{4.0}{40}$	$\frac{3.0}{20}$	4.4	$\frac{4.1}{20}$	$\frac{4.2}{40}$

+

69+0

✓	455.2	455.4	455.5	455.8	457.0
	$\frac{5.4}{40}$	$\frac{5.2}{20}$	5.1	$\frac{4.8}{20}$	$\frac{3.6}{40}$

+ 50

✓	454.7	455.0	455.3	455.6	455.3
	$\frac{5.9}{40}$	$\frac{5.6}{20}$	5.3	$\frac{5.0}{20}$	$\frac{5.3}{40}$

68+0

✓	454.3	454.3	455.1	454.2	454.3
	$\frac{6.3}{40}$	$\frac{6.3}{20}$	5.5	$\frac{6.4}{20}$	$\frac{6.3}{40}$

+ 50

✓	454.5	453.2	453.1	453.3	453.5
	$\frac{6.1}{40}$	$\frac{7.4}{20}$	7.5	$\frac{7.3}{20}$	$\frac{7.1}{40}$

67+0

✓	452.5	452.7	452.5	452.6	452.7
	$\frac{8.1}{40}$	$\frac{7.9}{20}$	8.1	$\frac{8.0}{20}$	$\frac{7.9}{40}$

66+89.52
 66+27.30 → Equa.

✓	452.2	452.4	452.6	452.9
	$\frac{8.4}{40}$	$\frac{8.2}{20}$	7.13	$\frac{7.7}{40}$

65+95.42 F.C.

✓	451.8	451.7	451.46	451.4	451.8
	$\frac{8.8}{40}$	$\frac{8.9}{20}$	$\frac{9.15}{07\text{Hub}}$	$\frac{9.2}{20}$	$\frac{8.8}{40}$

460.61

460.61

Lt

Z

R1

76
Nov. 4-35

+50

✓ 455.5	457.3	456.7	456.1	459.2
6.2	4.4	5.0	5.6	2.5
40	20		20	40

72+0

✓ 455.7	456.2	456.4	458.1	458.3
6.0	5.5	5.3	2.6	3.4
40	20		20	40

+75

✓ 455.8	458.0	457.4	455.9	455.9
5.9	3.7	4.3	5.8	5.8
40	20		20	40

+50

✓ 454.6	455.0	455.1	456.0	456.5
7.1	6.7	6.6	5.7	5.2
40	20		20	40

71+0

✓ 454.9	454.8	455.6	456.0	455.3
6.8	6.9	6.1	5.7	6.4
40	20		20	40

TP

4.76 461.67 3.70 456.91

461.67

+50

✓ 456.4	455.6	454.7	455.1	455.7
4.2	5.0	5.9	5.5	4.9
40	20		20	40

70+0

✓ 456.0	456.0	456.2	455.5	455.6
4.6	4.6	4.4	5.1	5.0
40	20		20	40

460.61

460.61

TP 6.13 461.03 6.77 454.90

76+0

+50

75+0

+50

74+0

+50

73+0

461.67

Lt.

S.

Rt.

✓ 454.7	454.7	455.0	456.9	456.0
7.0 40	7.0 20	6.7	4.8 20	5.7 40

✓ 455.7	454.6	454.4	454.9	454.8
6.0 40	7.1 20	7.3	6.8 20	6.9 40

✓ 453.9	453.9	454.1	454.7	454.9
7.8 40	7.8 20	7.6	7.0 20	6.8 40

✓ 455.2	454.50	454.2	454.1	454.4
6.5 40	7.2 20	7.5	7.6 20	7.3 40

✓ 453.2	454.6	453.9	456.6	457.1
8.5 40	7.1 20	7.8	5.1 20	4.6 40

✓ 453.7	456.0	455.2	456.7	455.4
8.0 40	5.7 20	6.5	5.0 20	6.3 40

✓ 456.2	457.4	455.2	455.0	457.1
5.5 40	4.3 20	6.5	6.7 20	4.6 40

461.67

Lt. L Rt.

+42

✓	<u>454.5</u>	<u>453.4</u>	<u>453.4</u>	<u>453.7</u>	<u>454.7</u>
	6.5	7.6	7.6	7.3	6.3
	40	20		20	40

+25

✓	<u>456.4</u>	<u>455.7</u>	<u>456.7</u>	<u>456.1</u>	<u>455.9</u>
	4.6	5.3	4.3	4.9	5.1
	40	20		20	40

79+0

✓	<u>456.4</u>	<u>456.4</u>	<u>456.1</u>	<u>456.3</u>	<u>456.2</u>
	4.6	4.6	4.9	4.7	4.8
	40	20		20	40

+50

✓	<u>457.9</u>	<u>456.5</u>	<u>456.7</u>	<u>456.3</u>	<u>456.7</u>
	3.1	4.5	4.3	4.7	4.3
	40	20		20	40

78+0

✓	<u>456.5</u>	<u>457.8</u>	<u>457.8</u>	<u>457.0</u>	<u>458.0</u>
	4.5	3.2	3.2	4.0	3.0
	40	20		20	40

+50

✓	<u>456.8</u>	<u>456.8</u>	<u>456.5</u>	<u>456.7</u>	<u>457.5</u>
	4.2	4.2	4.5	4.3	3.6
	40	20		20	40

77+0

✓	<u>455.9</u>	<u>455.9</u>	<u>456.0</u>	<u>456.1</u>	<u>456.2</u>
	5.1	5.1	5.0	4.9	4.8
	40	20		20	40

76+50

✓	<u>456.8</u>	<u>456.7</u>	<u>455.6</u>	<u>455.5</u>	<u>456.0</u>
	4.2	4.3	5.4	5.5	5.0
	40	20		20	40

461.03

461.03

Note! Prop. Ties p. 19-25-46-49-50

BM

7.29

453.74

N. W. End of C5
W. End of 1st mp
Missouri Valley
Road
See page 37

79+50.57 - W. End of 1st mp
Missouri Valley Road

461.03

79 79 79

454.28	453.74	453.07	453.58	453.15	453.79	454.33
6.8 40	7.29 21- Top Cb	7.26 21- Gutter	7.45	7.88 21- Gutter	7.24 26- Top Cb	6.7 40

461.03

Elevations For Water Tank site

MARCELLONA TRACT

Lots 5 And 6

Also Levels West line 55th St.

South of station 69+3461 Page 25

				Elev E.C.
	7.9	461.3		453.38
chk. Ground			5.2	456.1
69+34 page 26				
207' South of 69+3461			4.2	457.1
350' "			3.7	457.6
140' "			3.8	457.5
605' "			4.5	456.8
T.P.	3.8	460.6	4.5	456.8
722' South of 69+3461			5.5	455.1
793' "			10.7	449.9
T.P.	5.3	455.2	10.7	449.9
Vert Δ 20°40' stud. 85'			34.3	420.9
793' South of 69+3461				

Elevations West of Wk. 55+6

				Elev Ground
Temp. B.M. Elev Ground				
210' South of	5.6	463.1		457.5
69+3461			5.2	457.9
			8.7	454.4
			12.5	449.6
			14.7	448.4
			17.6	445.5
			19.1	444.0
			19.1	444.0
			18.8	444.3
			11.8	451.3

DIRECTIONS FOR USE OF TABLES

TABLE No. 1

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

from side stake to slope stake. If ground is not

IMPROVED TABLES

AND

INFORMATION

463.1

8.8 454.3

5.7 457.4

Proposed Road

TABLE X.
MIDDLE ORDINATES OF RAILS
Length of Rail (feet)

C	R	30	28	26	24	22	20	C	R	30	28	26	24	22	20
o /	Feet	Inch	Inch	Inch	Inch	Inch	Inch	o /	Feet	Inch	Inch	Inch	Inch	Inch	Inch
0-20	17189	.08	.07	.06	.05	.04	.03	8	716.8	1.88	1.64	1.42	1.20	1.01	.84
0-40	8594	.16	.14	.12	.10	.08	.07	9	637.3	2.12	1.84	1.60	1.35	1.14	.94
1-0	5730	.24	.20	.18	.15	.13	.10	10	573.7	2.36	2.05	1.78	1.50	1.27	1.04
1-20	4297	.31	.27	.23	.20	.17	.13	11	521.7	2.59	2.26	1.95	1.65	1.39	1.15
1-40	3438	.39	.34	.29	.25	.21	.17	12	478.3	3.83	3.47	2.15	1.81	1.54	1.26
2-0	2865	.47	.41	.35	.30	.25	.20	13	441.7	3.05	2.66	2.30	1.96	1.66	1.36
2-20	2456	.55	.48	.41	.35	.29	.23	14	410.3	3.30	2.87	2.48	2.10	1.78	1.46
2-40	2149	.63	.55	.47	.40	.33	.27	15	383.1	3.54	3.08	2.68	2.26	1.91	1.57
3-0	1910	.71	.62	.53	.45	.38	.31	16	359.3	3.76	3.28	2.83	2.40	2.04	1.67
3-20	1719	.78	.68	.59	.50	.42	.35	17	338.3	4.00	3.48	3.02	2.57	2.16	1.78
3-40	1563	.86	.75	.65	.55	.46	.38	18	319.6	4.21	3.67	3.18	2.70	2.28	1.87
4-0	1433	.94	.82	.71	.60	.50	.42	19	302.9	4.45	3.89	3.36	2.86	2.41	1.98
4-20	1323	1.02	.89	.77	.65	.55	.45	20	287.9	4.70	4.09	3.55	3.00	2.54	2.09
4-40	1228	1.10	.96	.83	.70	.59	.48	22	262.0	5.16	4.44	3.84	3.30	2.80	2.29
5	1146	1.18	1.03	.89	.75	.63	.52	24	240.5	5.64	4.92	4.20	3.59	3.04	2.50
6	955.3	1.41	1.23	1.06	.90	.76	.62	26	222.3	6.07	5.29	4.58	3.88	3.29	2.70
7	819.0	1.65	1.44	1.24	1.05	.89	.73								

TABLE XI.
SHORT RADIUS CURVES

Radius Feet	Chord Feet	Central Angle	Deflection Angle	Deflection for 1 Foot
35	10	16-26	8-13	49.3
45	10	12-46	6-23	38.3
50	15	17-16	8-38	34.5
60	15	14-22	7-11	28.8
75	15	11-30	5-45	23.0
100	20	11-30	5-45	17.3
120	20	9-34	4-47	14.3
150	20	7-39	3-49	11.5
190	25	7-32	3-46	9.15
200	25	7-10	3-35	8.6
225	25	6-25	3-12	7.7
240	25	5-58	2-59	7.2
250	25	5-44	2-52	6.9
275	25	5-12	2-36	6.2
288	50	9-58	4-59	6.0
300	50	9-32	4-46	5.7
350	50	8-12	4-06	4.9
376	50	7-40	3-50	4.6
400	50	7-10	3-35	4.3
410	50	7-00	3-30	4.2

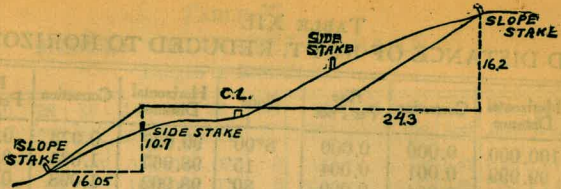
To find length of curve divide angle from P. C. to P. T. by central angle of chord, and multiply by length of chord.

TABLE XII.
INCLINED DISTANCE OF 100 FT. REDUCED TO HORIZONTAL

Slope	Horizontal Distance	Correction	Rise Per Foot	Slope	Horizontal Distance	Correction	Rise Per Foot
0°00'	100.000	0.000	0.000	8°00'	99.027	0.973	0.139
15'	99.999	0.001	0.004	15'	98.965	1.035	0.143
30'	99.996	0.004	0.009	30'	98.902	1.098	0.148
45'	99.991	0.009	0.013	45'	98.836	1.164	0.152
1 00	99.985	0.015	0.017	9 00	98.769	1.231	0.156
15	99.976	0.024	0.022	15	98.700	1.300	0.161
30	99.966	0.034	0.026	30	98.629	1.371	0.165
45	99.953	0.047	0.031	45	98.556	1.444	0.169
2 00	99.939	0.061	0.035	10 00	98.481	1.519	0.174
15	99.923	0.077	0.039	15	98.404	1.596	0.178
30	99.905	0.095	0.044	30	98.325	1.675	0.182
45	99.885	0.115	0.048	45	98.245	1.755	0.187
3 00	99.863	0.137	0.052	11 00	98.163	1.837	0.191
15	99.839	0.161	0.057	15	98.079	1.921	0.195
30	99.813	0.187	0.061	30	97.992	2.008	0.199
45	99.786	0.214	0.065	45	97.905	2.095	0.204
4 00	99.756	0.244	0.070	12 00	97.815	2.185	0.208
15	99.725	0.275	0.074	15	97.723	2.277	0.212
30	99.692	0.308	0.078	30	97.630	2.370	0.216
45	99.657	0.343	0.083	45	97.534	2.466	0.221
5 00	99.619	0.381	0.087	13 00	97.437	2.563	0.225
15	99.580	0.420	0.092	15	97.338	2.662	0.229
30	99.540	0.460	0.096	30	97.237	2.763	0.233
45	99.497	0.503	0.100	45	97.134	2.866	0.238
6 00	99.452	0.548	0.105	14 00	97.030	2.970	0.242
15	99.406	0.594	0.109	15	96.923	3.077	0.246
30	99.357	0.643	0.113	30	96.815	3.185	0.250
45	99.307	0.693	0.118	45	96.705	3.295	0.255
7 00	99.255	0.745	0.122	15 00	96.593	3.407	0.259
15	99.200	0.800	0.126	15	96.479	3.521	0.263
30	99.144	0.856	0.131	30	96.363	3.637	0.267
45	99.087	0.913	0.135	45	96.246	3.754	0.271

TABLE XIII.
MINUTES IN DECIMALS OF A DEGREE.

0 30"	.00833	10' 30"	.17500	20' 30"	.34167	30' 10"	.50833	40' 30"	.67500	50' 10"	.84167
1 00	.01667	11 00	.18333	21 00	.35000	31 00	.51667	41 00	.68333	51 00	.85000
30	.02500	30	.19167	30	.35833	30	.52500	30	.69167	30	.85833
2 00	.03333	12 00	.20000	22 00	.36667	32 00	.53333	42 00	.70000	52 00	.86667
30	.04167	30	.20833	30	.37500	30	.54167	30	.70833	30	.87500
3 00	.05000	18 00	.21667	23 00	.38333	33 00	.55000	43 00	.71667	53 00	.88333
30	.05833	30	.22500	30	.39167	30	.55833	30	.72500	30	.89167
4 00	.06667	14 00	.23333	24 00	.40000	34 00	.56667	44 00	.73333	54 00	.90000
30	.07500	30	.24167	30	.40833	30	.57500	30	.74167	30	.90833
5 00	.08333	15 00	.25000	25 00	.41667	35 00	.58333	45 00	.75000	55 00	.91667
30	.09167	30	.25833	30	.42500	30	.59167	30	.75833	30	.92500
6 00	.10000	16 00	.26667	26 00	.43333	36 00	.60000	46 00	.76667	56 00	.93333
30	.10833	30	.27500	30	.44167	30	.60833	30	.77500	30	.94167
7 00	.11667	17 00	.28333	27 00	.45000	37 00	.61667	47 00	.78333	57 00	.95000
30	.12500	30	.29167	30	.45833	30	.62500	30	.79167	30	.95833
8 00	.13333	18 00	.30000	28 00	.46667	38 00	.63333	48 00	.80000	58 00	.96667
30	.14167	30	.30833	30	.47500	30	.64167	30	.80833	30	.97500
9 00	.15000	19 00	.31667	29 00	.48333	39 00	.65000	49 00	.81667	59 00	.98333
30	.15833	30	.32500	30	.49167	30	.65833	30	.82500	30	.99167
10 00	.16667	20 00	.33333	30 00	.50000	40 00	.66667	50 00	.83333	60 00	1.00000



294.13
46.35
247.78

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

Computed by L. Leland Locke.

59.5
 147.2
 43.03

213.35 to Nail
 104 05' 15"

88 m
 176.24

1.44
 18
 1152
 144
 259 2

2 + 125 20" Delivery Water Line

66 + 89.52 = Old EC,
 31.87 W to New EC

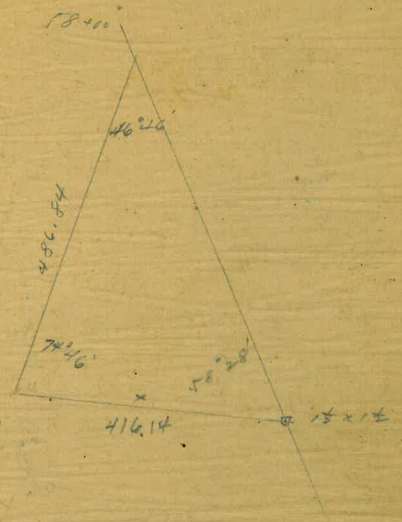
66 + 57.65
 64 95.23
 1 64.22

6934.61
 871.2
 6063.41

201.66
 605'
 141.15

P 11
 P 25
 P 49
 P 50

58 + 37.54
 56 + 96.39
 111.15



5.47° 02' 54" E
 5.75 00 36" W
 122° 03' 30"