1852

EUGENE DIETZGEN CO.

DRAWING MATERIALS, MATHEMATICAL and SURVEYING INSTRUMENTS

Chicago New York San Francisco New Orleans Pittsburg Toronto

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

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

Example—If point is 22.6 ft. above grade, how far should it be from center line to be a slope stake point? Ans. from Table 30.6. For same slopes but other widths of roadbed, correct above figures by one-half difference in width of roadbed; thus in example above, for 20 ft. roadbed distance will be 30.6+(20—16)÷2 or 2 ft. added to 30.6 =32.6. For slopes of 1 on 1½ see inside of back cover.

1852

CITY ENGINEER'S OFFICE

INDEXED
Completely
except page #5

This Field Book is manufactured of a High Grade 50% Rag Paper having a WATER RESISTING SURFACE, and is sewed with Bing Special Enamel Waterproof thread.

Made in U. S. A.

Violet
To
Snowdrop

Manzanita Drive

Sketches 43

Notes 52

Final X-Sect. of Opal St. - from Cass to Dawes - 70' St. - 15' cbs

Orig. X-Sect in Book 1701 - 67 - Sections on Pave - to 0+00 are O.K. - use sketch on P. 67 - see sketch for add. Detail

#2347

W.O. 31533

5-17-48

7.0.

1+00 - 29.3 Rt. = Beg. Nly. of 4' Hedge - 4' High

0+99 - 31.8 Rt. = end fence

0+50

0+20

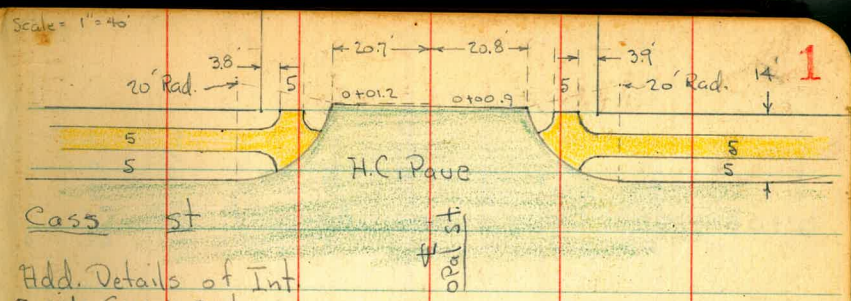
Rods on edge of Pave & end of cb. Note sketch:
end of cb. on Rt. = 0+00.9 & on Lt. = 0+01.2

+ 34.5 Rt. = Beg. Lath fence:

0+00 = E.L. Cass - = end of Walks

6.91 107.83 100.92

St. T.ct. Opal & Cass Mol. P. 67



Add. Details of Int.
E. side Cass & Opal

Lt. = N. ℄ Rt. = S.

103.6	103.4	103.1	102.5	102.6		102.0	102.4	102.1	101.6	101.5
4.2	4.4	4.7	5.3	5.2		5.8	5.4	5.7	6.2	6.3
40	35	20	16			17	20	30	35	40
103.3	103.1	102.9	101.9		103.0		101.8	101.3	101.0	100.8
4.8	4.7	4.9	5.9		5.8	6.6	6.0	6.8	6.8	7.0
40	35	20	15			17	20	32	35	40
103.5	103.0	102.6	101.8	101.9	101.7	100.8	101.4	101.1		100.8
4.3	4.8	5.2	6.0	5.9	6.1	7.0	6.4	6.7		7.0
5	35	20	15	10		17	20	35		40
	102.45	101.83	101.73	101.45	101.02		100.67	100.19		
	5.38	6.00	6.10	6.38	6.81		7.16	6.64		
	20.7	20.7	10		10		20.8	20.8		
	Top	Gut.					Gut.	Top cb.		
102.81	102.58						101.14	101.11		
5.02	5.24						6.69	6.72		
31.2	26.2						26.1	31.1		
end walk							end of walk			

107.83

2+00

2+84.5 - 20.1 Rt. = ℄ 2' Conc. walk

2+50

T.P. 117.5' 117.52 296 10577

2+00

1+78 = 50' Lt. = ℄ New House

1+62 - 52' Rt. = ℄ New House

1+51 - 32' Rt. = ℄ 4" Tree = end of Hedge

1+50

1+44 - 35.7 Rt. = ℄ 8' Conc. Dr.

1+39.5 - 28.3 Rt. = end - Nly. Hedge

1+27.5 - 21.7 Lt. = ℄ 2' conc. walk

1+21.5 - 27.9 Rt. = ℄ 18" Brick walk

	Lt.		℄		Rt.		
	107.5	107.6	107.6	106.6	107.0	107.2	107.1	107.0
	10.0	9.9	9.9	10.9	10.5	11.2	10.3	10.3	10.4	10.5
	40	35	20	15		10	12	20	35	40
							106.62		106.63
							10.90		10.89
							20.1=walk		54=at Porch
	106.2	106.1	105.0	105.3	105.3	104.6	105.1	104.8	104.6	104.5
	11.3	11.4	12.5	12.2	12.2	12.9	12.4	12.7	12.9	13.0
	40	20	15	6		10	15	20	35	40
				117.52						
	105.8	105.6	105.0	104.1	104.3	103.6	104.0	103.7	103.1	102.8
	2.0	2.2	2.8	3.7	3.5	4.2	3.8	4.1	4.7	5.0
	40	35	20	15		10	15	20	35	40
108.90							101.8			103.8
+1.07							6.0			4.00
50							52=ground.			52
Floor.										floor
	104.6	104.5	103.6	102.9	103.2		102.6	102.8	102.7	104.4
	3.2	3.3	4.2	4.9	4.6		5.2	5.0	5.1	5.4
	40	35	20	15			13	20	35	40
							102.43		101.98
							5.40		5.85
							35.7		45.7
							Dr		Dr.
	104.29		103.60						
	3.54		4.34				102.31		102.11
	41.7		21.7				5.52		5.72
	walk		walk				27.9		37.9
				107.83			walk		walk.

4+88.5 - 34.8 Rt. = ℄ 3' Conc. walk

4+88.5 - 32.6 Lt. = ℄ 2" Shrub

4+84 - 48.1 Lt. = ℄ 2.5 Conc. walk

4+80 - 32.7 Lt. = ℄ 3" Shrub

4+59 - 48' Lt. = ℄ 7' Dr. - 2-2' Conc. strips

4+50 - 32.3 Lt. = ℄ 2" shrub

4+28 - 35' Rt. = ℄ 3' Conc walk

4+07.5 - 34.9 Rt. = ℄ 7.7 Conc. Dr.

4+00

3+95 - 60.4 Lt. = ℄ 7.4' Conc Dr.

3+50

3+41 - 38.2 Rt. = ℄ 8.8' Conc. Dr. to Sing. Gar.

Lt. ℄ Rt.

112.75
4.79
34.8

112.88
4.68
53.3 = walk at Porch

114.06
3.46
61.7
at Porch

113.75
3.77
48.1 = walk

113.60
3.92
58

113.43
4.09
48 = Dr.

112.8 112.6 112.0 111.6 111.7 111.5 111.1 111.1 111.6 111.3 111.3
4.7 4.9 5.5 5.9 5.8 6.0 6.4 5.8 5.9 6.2 6.2
40 35 20 15 10 10 20 35 40

110.94
6.58
35
walk

110.27
7.25
34.9 = Dr.

110.70
6.82
47.7
walk at Porch

110.07
7.45
62.7
floor Gar.

111.4 111.3 110.4 109.8 110.2 110.1 109.6 110.1 110.2 109.7 109.6
6.1 6.2 7.1 7.7 7.3 7.4 7.9 7.4 7.3 7.8 7.9
40 35 20 15 10 8 10 20 35 40

112.01
5.51
70.4
Dr.

111.72
5.80
60.4 = Dr.

110.3 110.2 109.2 108.7 109.0 108.7 108.2 108.8 108.9 108.6 108.4
7.2 7.3 8.3 8.8 8.5 8.4 9.3 8.7 8.6 8.9 9.1
40 35 20 15 10 10 11 20 35 40

108.28
9.24
33.2
Dr.

107.89
9.63
64.7
floor Gar.

~~107.85~~
117.52

B 1701 - P. 72.

check B.M. on pipe 4.57 112.95 112.94 ✓

40 E. = ℄ Dawes = end.

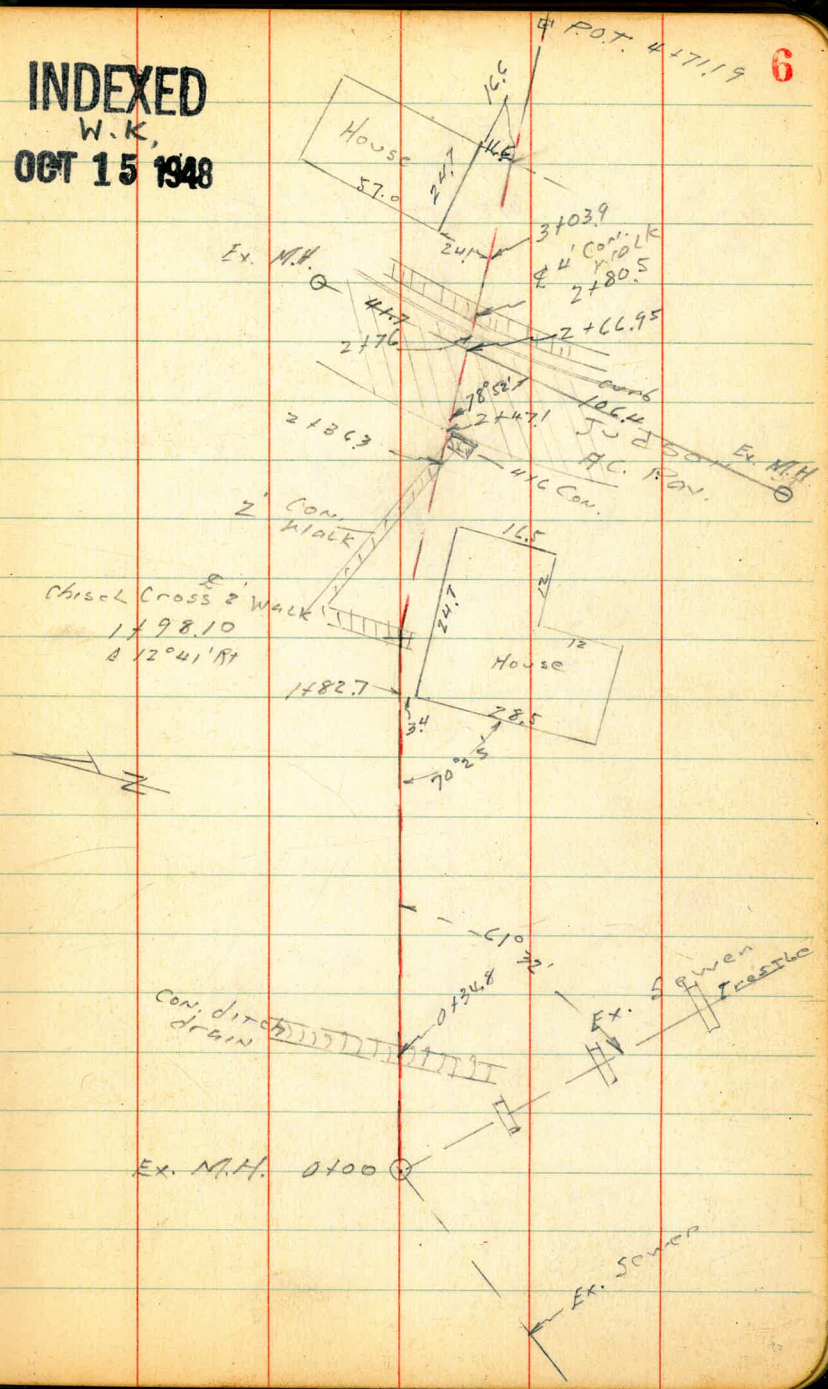
20 E. = W. cb.

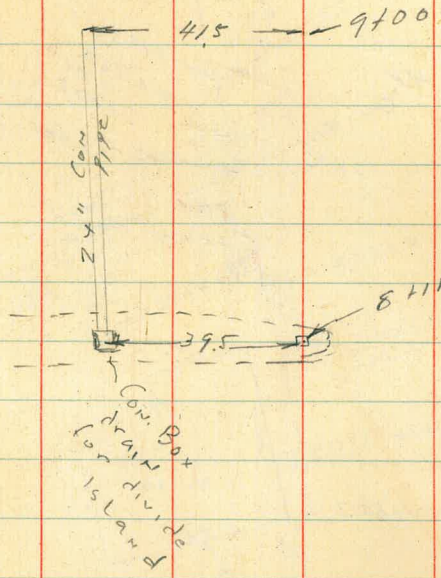
4+98.19 = W.L. Dawes

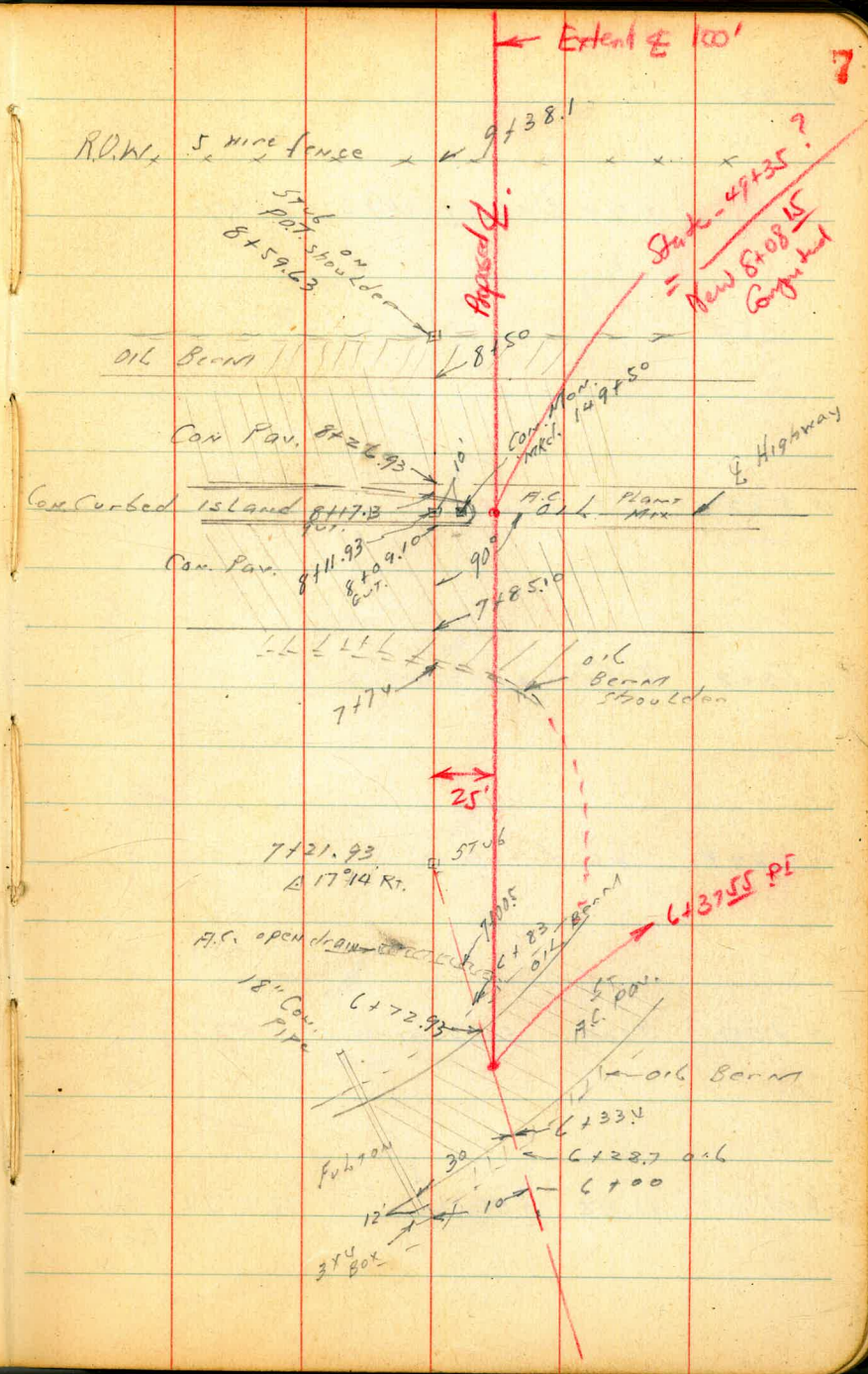
	Lt.		℄		Rt	
	1.7 115.8					
	85					
	2.5 115.0					
	35					
	3.0 114.5					
	20					
	3.0 114.5					
					3.3 114.2	
					20	
					3.6 113.9	
					35	
					5.0 112.5	
					85	
2.9 114.6						
40						
2.9 114.6						
35						
3.0 114.5						
20						
3.1 113.8						
15						
3.6 113.9						
3.5 114.0						
20						
3.8 113.7						
35						
4.0 113.5						
40						
3.5 114.0						
40						
3.5 114.0						
35						
4.2 113.3						
20						
4.6 112.9						
15						
4.2 113.3						
7						
4.2 113.3						
4.4 113.1						
10						
4.2 113.3						
20						
4.4 113.1						
35						
4.5 113.0						
40						

Prop. Sewer to
Veterans Hospital W.O. 90079.
Linda Vista

Moore
Bess
Sherman
Bench
10-13-48




41.5
9+00
24" Con Pipe
8+11.93
39.5
Con. Box
Con. drain
Con. dividing
Island


Extend ℄ 100'
R.O.W.
5 wire fence
9+38.1
Proposed ℄
Sta. 49+35 ?
= New 8+08.15 Conf. Ind
Sta. 8+59.63
on shoulder
8+50
Oil Berm
Con. Mon. 14+95.50
Con Pav. 8+26.93
10'
Con. Mon. Mrk.
Con Curbed Island 8+17.13
90°
P.C.
Oil
Plant Mix
℄ Highway
Con. Pav. 8+11.93
8+09.10
Gut.
90°
7+85.10
7+74
0.6
Berm
Shoulder
25'
7+21.93
17°14' Rt.
5 Sta
7+00.5
P.C. open drainage
6+83
0.6
Berm
6+37.55 P.I.
18" Con. Pipe
6+72.93
45°00'
P.C.
0.6 Berm
6+33.1
6+28.7
0.6
30'
6+00
Future
12'
10'
3'x3' Box

0 + 90				
T.P.	11.99	346.69	1.96	334.70
+50				
0 + 38.8	E.C. ditch			
0 + 34.8	E Con open ditch			
0 + 30.8	WC ditch			
0 + 00	RIM	East side	??	
BM	11.92	336.66	324.74	INV. Ex. MH

Tie into 6 Cmy B.M.

Lt ℄ Rt

338.6 338.5 338.5

8.1/15 8.2 338.5 8.2/15

346.69

334.6 331.8 330.5

2.1/15 4.9 6.2/15

329.8

C.9

331.7 328.2 325.0

5.0/15 8.5 11.7/15

329.3

7.4

329.91

328.06

8.6 6.75

ground RIM

336.66

3

Check Starting Elevation

R.R.
T.P. Spike ✓
PP 27902S 4.54 347.46 3.77 342.92

2 + 47.10 Par

2 + 47.10 on walk

2 + 36.3 on 2' walk

1 + 98.10 Δ 12° 41' Rt

1 + 50

1 + 20

346.69

Lt ℄ Rt

342.6
4.1
15
Par.

342.2
4.50
Par

341.66
5.03
15
Par

342.3
4.39

342.9
3.77

343.3
3.4
15

342.86
3.83
Can walk

343.0
3.7
15

341.7
5.0
15

341.4
5.3

341.3
5.4
15

340.4
6.3
15

339.6
7.1

339.7
7.0
15

346.69

4+50				
4+00				
T.P.	4.22	347.61	4.07	343.39
3+50				
3+00				
2+80.5	& walk			
2+76	gutter			
2+66.95	Int.	Ex. Sewer 347.46		

Lt

4.7 / 20	343.9	
4.6 / 20	343.0	
4.1 / 20	343.4	
4.5 / 15	343.0	
5.41	342.05	
5.85 gutter	341.61	
11.14 / #17 F.L.	336.32	
5.35 / #17 Rim	342.11	

&

4.5	343.1	
4.4	343.2	
347.61		
4.1	343.4	
4.2 / 15	343.3	
4.3	343.3	
5.7	341.8	
347.46		

Rt

4.3 / 20	343.1	
4.4 / 20	343.2	
5.58 Top Curb	341.88	
6.5 / 106.4 Rim	340.92	
18.32 / 106.4 F.C. Main of D.M.H.	329.14	

(343)

6+83				
6+72.93	E. edge Pav. FULTON			
T.P.	4.64	333.83	12.91	329.19
6+33.4	W edge Pav.			
6+00				
T.P.	6.34	342.10	11.85	335.76
5+41				
5+00				
		347.61		

5.6

324.8	327.6	328.4	327.7	327.87	328.3	332.8	333.8		
12.0	6.2	5.4	6.1	5.6	5.5	6.0	0.0		
36	21	7	5		32	36	46		
		Berm			5. edge pav		Top Cut		

333.83

324.3	329.5	328.9	329.1	339.9	329.8	332.3	336.0	340.9	341.1
17.8	12.6	13.2	13.0	12.2	12.3	9.8	6.1	1.2	1.0
46	35	33	27		X	10	25	45	55

331.2	331.1	320.75	331.08	332.5	334.5	336.1	341.0	341.3	
10.9	11.0	21.35	11.02	9.6	7.6	6.0	1.2	0.8	
50	25	10	10		12	20	30	40	
		F.L. Bot. Box	Rim Box Culv. Inlet						

342.10

			337.7		338.7		339.6		
			9.9		8.9		8.0		
			20				20		

6.4	341.2			341.8		342.0			
				5.8		7.6			
20						20			

347.61

7+71

7+45

7+21.93 ⇦ 17°1¼'RT on SPLIT

7+01.5

7+01

7+00 open drain

6+99.5

333.83

4 330.4 3.4 50 shoulder on HWY | 329.6 4.2 25 | 328.6 5.2 | 328.9 4.9 8 | 328.3 5.5 12 | P 327.5 6.3 50

315.1 18.7 45 | 326.7 7.1 14 | 327.2 6.5 | 327.5 6.3 22 | 328.0 5.8 24 | 327.7 6.4 27 Berm out | 327.4 6.4 50 per Fulton

315.3 18.5 45 | 320.8 13.0 28 | 326.7 7.1 12 | 326.7 7.1 | 327.3 6.5 18 | 328.4 5.6 23 | 327.5 6.3 25 out | 327.5 6.3 50 per Fulton

6.4 327.4

326.5 7.3

326.5 7.3

327.48 6.35

333.83 ✓

7+16.6	Top Island curb
8+11.93	E Hwy
8+09.5	Top Island Curb
8+09.10	E. L. of Vil. Lane
7+85.10	W. edge Conc. Pav. Village Lane Hwy
7+75	
7+73.8	Berm

333.83

L 331.26 2.57 50 curb

C 329.85 3.98 curb

P 329.56 4.27 9.6 curb

316.87 16.96 39.5 FL. Bot. Box

331.05 2.78 39.5 Top Box

329.6 4.2 dirt

P.7

331.26 2.57 50

329.88 3.95

329.60 4.23 9.5

330.73 3.10 50

329.41 4.42

327.85 5.98 50

330.54 3.29 50

329.16 4.67

327.68 6.15 50

329.7 5.1

329.2 4.6

333.83

4.19 10

2.96 4

Set BM. on State Mon. Mkr 1x9x50

Check BM to Curry & State BMs

8+78

8+66

8+59.63 Beam

+58

8+50 E.L. of E. Lane

8+26.93 W edge of E Lane

8+17.13 C-T

33383

L 343.0 — 10.8 / 50 — 324.8 — 9.0 / 9 — ℄ 326.8 — 7.0 — 0.2 / 30 — 333.6 — ↑

329.8 — 4.6 / 50 — 328.8 — 5.0 — 15.5 / 10 — 328.3 — 4.9 / 20 — 328.9 — 3.1 / 50 — 330.7

Fill Shoulder

329.8
4.0

329.2
4.6

330.57 — 3.26 / 50 — 329.30 — 4.53 — 327.93 — 5.90 / 50

329.78 — 3.05 / 50 — 329.34 — 4.49 — 327.85 — 5.98 / 50

329.35
4.48

33383

		Rim			
Check Back 10+00		M.H.	12.65	329.87	329.91 (0.04)
T.P.	0.65	342.52	5.93	341.87	
T.P.	5.03	347.80	1.11	342.77	
T.P.	10.96	343.88	1.08	332.92	
T.P.	11.94	334.00	0.47	322.06	
10+07					
9+67					
9+38.1 at fence					
9+00 P.T.					
8+89					
T.P.	0.61	322.53	11.91	321.92	
		33383			

297.0 — 25.5 — 50

312.4 — 10.1 — 322.5 — 0.0 — 44

291.4 — 31.1 — 50

302.0 — 20.5 — 313.0 — 9.5 — 30

300.4 — 22.1 — 50

307.1 — 15.4 — 25

313.8 — 8.7

320.3 — 2.2 — 2.3

326.5 — +4.0 — 50

307.73 — 14.8 — 41.5

F.L. OUTLET 24" PIPE

329.9 — +0.4

324.9 — +7.4 — 25

335.0 — ±12.5 — 50

317.5 — 10.0 — 33

318.8 — 3.7 — 17

325.6 — ±3.1

330.5 — ±10.0 — 28

338.0 — ± 15.5 — 50

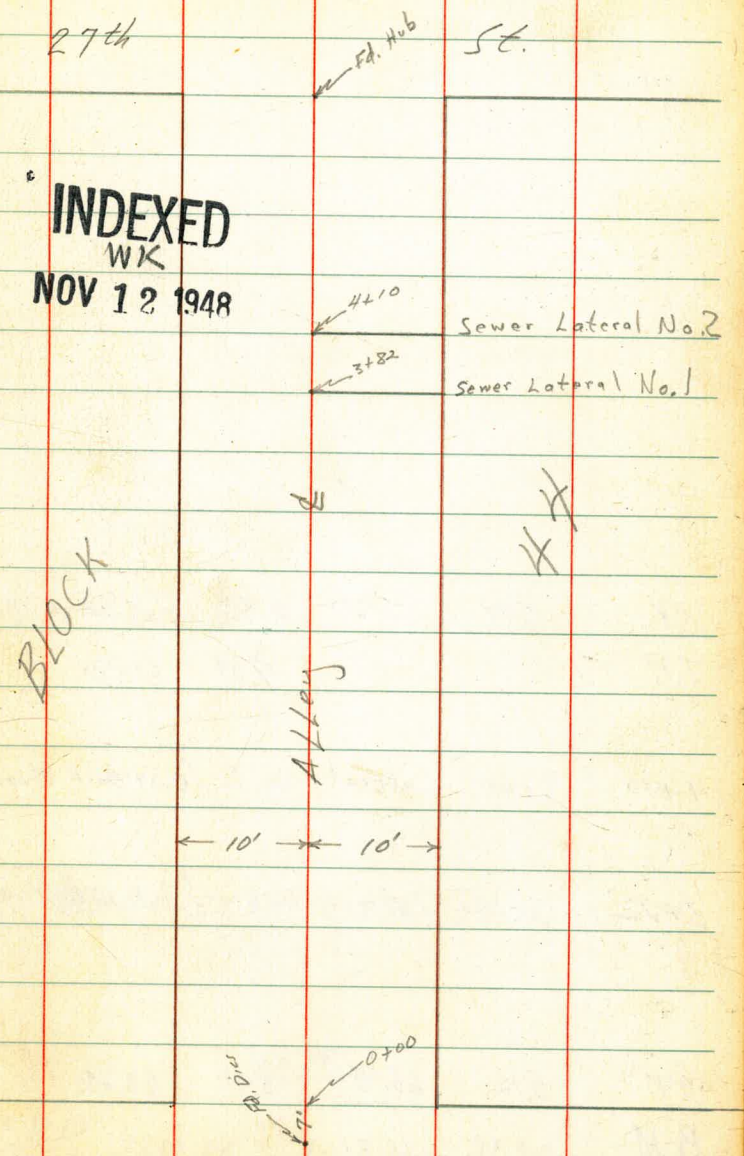
322.53

Laterals No. 1 & No. 2 Alley
Block 44, Hensley Subdivison.

Roberts
W. Moore
Clerk
11-8-48

6986L

W.O. 31232



						Rd.	Elev. Stub	Elev. ℄		Elev. Prop. Line	
CK	5.41	66.30	2.38	63.92	63.91	N.W. B.P. 26th. & Imperial					
F.P.			5.09	60.89							
4+10	Sewer	Lateral	No. 2 (0.07' Back Prop. Line)								
3+82	Sewer	Lateral	No. 1	(Stub. 10' Back Prop. Line)		5.57	60.41	57.51	C-2.90	57.71	C-2.70
								65.98			
FP	5.16	65.98	5.49	60.82							
B M	2.39	66.31			63.92	N.W. B.P. 26th St. and Imperial Ave.					

Staked for Construction

Monroe Ave. (Texas to Arizona)

60952 W.O. 31323

Roberts
W. Moore
Clark
11-8-48

B M

338.96
S.E. & P.
Texas and
Monroe

Arizona St.

352.99	352.91	352.83	352.21	351.60	0+00
351.02	351.00	350.98	350.44	349.90	0+20
	348.59		348.03		0+45
346.20	346.20	346.20	345.67	345.15	0+70
345.38	345.38	345.38	344.86	344.34	0+80
344.82	344.83	344.83	344.31	343.79	0+90
343.59	343.58	343.59	343.06	342.55	1+20
342.34	342.34	342.34	341.82	341.30	1+50
341.98	341.99	341.99	341.47	340.95	1+60
341.75	341.76	341.76	341.24	340.72	1+70
341.06	341.10	341.12	340.62	340.12	2+07
340.38	340.43	340.47	339.99	339.51	2+44
339.70	339.76	339.82	339.36	338.90	2+80
339.36	339.37	339.38	338.95	338.52	3+00

Texas Street

Alley in block 243 University Heights

Stake for Construction

F.B. 1776 6940L

W.O. 31095

Roberts
W. Moore
Clark
11-9-48

INDEXED
WK
NOV 12 1948

	Lt	℄	Rt
0+60	(2' Back) 293.85 / 4.79 / 4.68 / C-0.11	293.69 / 4.35	294.13 / 4.51 / 4.44 / C-0.07 (1' Back)
0+40	(2' Back) 293.65 / 4.99 / 4.65 / C-0.34	293.86 / 4.56	293.87 / 4.77 / 4.41 / C-0.36 (1' Back)
0+20	(2' back) 293.38 / 5.26 / 4.64 / C-0.62	293.14 / 4.88	293.50 / 5.14 / 4.39 / C-0.75 (1' Back)
0+00	Prop. Line at Brooks 8.89 298.02 For ℄ Grades (Add 0.33' for Subgrade) 9.51 298.64	Fwd. 293.04 / 5.60 / 5.59 ✓	Fwd. 292.68 / 5.34 ✓ 298.02
BM	S.E.B.P. Brooks Ave. & Herbert St 289.13		298.64

Fwd. 293.02 / 5.62 / 5.60 ✓

19

		Lt	℄	Rt	
2+40		(2' Back) 294.67 3.97 3.92 C-0.05	294.52 3.50	294.96 3.68 3.16 C-0.52	2' Back
2+20		(2' Back) 294.62 4.02 3.82 C-0.20	294.47 3.55	294.92 3.72 3.23 C-0.49	(2' Back)
1+95		(1' Back) 294.50 4.14 3.96 C-0.18	294.35 3.67	294.80 3.84 3.34 C-0.50	(2' Back)
1+70	N. Side of E. & W. Alley	(2' Back) 294.39 4.25 4.04 C-0.21	294.24 3.78	294.69 3.95 3.31 C-0.64	(2' Back)
1+50	S. Side of E. & W. Alley	(1.8' Back) 294.30 4.34 3.80 C-0.54	294.15 3.89	294.60 4.04 3.77 C-0.27	(1' Back)
1+15		(2' Back) 294.19 4.45 4.18 C-0.27	293.99 4.03	294.44 4.20 3.72 C-0.28	(1' Back)
0+80		(2' Back) 293.98 4.66 4.47 C-0.19	293.83 4.19 ℄ 298.02 298.64	294.28 4.36 4.36 Grade	(2' Back)

℄
298.02
298.64

0+20				
0+00	West Line of N. & S. Alley			
T.P.	3.17	298.59	2.60	295.42
T.P.	4.50	299.59	3.55	295.09
3+20	Prog. Line at Cypress			
3+00				
2+80				
2+60				

℄ 298.02

298.64

Lt.	℄	Rt	
(Line) 294.60 / 4.99 / 4.89 / C - 0.10	294.32 / 4.27	294.60 / 4.99 / 5.18 / F - 0.19	(1' Back)
(Line) 294.30	294.25 / 4.34	294.39	(1.6 Back)
	Set on other alley		
	~~298.59~~ ℄		
For ℄ Grades only - (add 0.33 for subgrade)			
	299.59		
Fav. 293.94 / 4.90 / 4.70 ✓	293.67 / 4.35 ✓	Fav. 294.07 / 4.57 / 4.57 ✓	
(1' Back) 294.23 / 4.41 / 3.58 / C - 1.03	293.99 / 4.05	294.41 / 4.23 / 2.70 / C - 1.53	(2' Back)
(2' Back) 294.47 / 4.17 / 3.21 / C - 0.96	294.29 / 3.73	294.71 / 3.93 / 2.45 / C - 1.48	(2' Back)
(2' Back) 294.61 / 4.03 / 3.72 / C - 0.31	294.45 / 3.57	294.88 / 3.76 / 2.85 / C - 0.91	(2' Back)
	℄ 298.02		
	298.64		

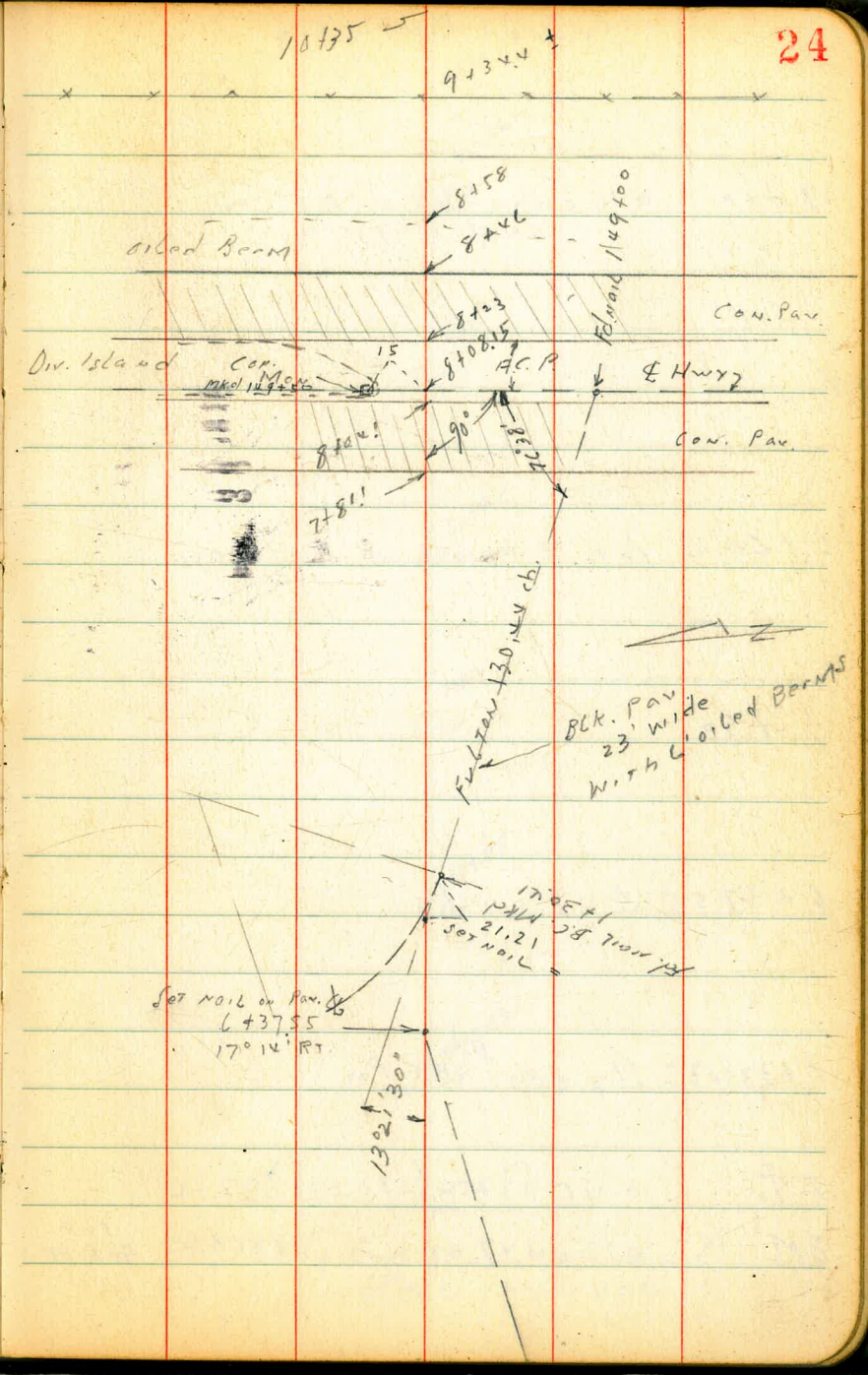
	Lt	℄	Rt
1+96			
1+64	(1'Back) 293.10 / 6.49 / 6.24 / C-0.25	292.92 / 5.99	293.10 / 6.49 / 6.05 (2'Back) / C-0.44
1+32	(2'Back) 293.53 / 6.06 / 5.64 / C-0.42	293.23 / 5.36	293.52 / 6.07 / 5.25 (2'Back) / C-0.82
1+00	(2'Back) 293.96 / 5.63 / 5.29 / C-0.34	293.64 / 4.95	293.94 / 5.65 / 5.49 (2'Back) / C-0.16
0+80	(2'Back) 294.38 / 5.21 / 5.04 / C-0.17	294.05 / 4.54	294.35 / 5.24 / 4.65 (0.4'Back) / C-0.59
0+60	(0.19' Inside) 294.56 / 5.03 / 4.49 / C-0.54	294.26 / 4.33	294.56 / 5.03 / 4.78 (0.5'Back) / C-0.25
0+40	(0.04' Inside) 294.67 / 4.92 / 4.54 / C-0.38	294.37 / 4.22	294.67 / 4.92 / 4.83 (2'Back) / C-0.09
	(Line) 294.69 / 4.90 / 4.77 / C-0.13	294.39 / 4.20	294.69 / 4.90 / 5.00 (2'Back) / F-0.10
	℄ 299.59	℄ 298.59	
	299.59	299.59	

		Lt.	℄	Rt.
0+01	Sewer Lateral No.1 on N & S. Alley		288.83 9.81 4.73 C - 5.08	289.03 9.61 4.73 C - 4.88 (5' Back Prop. Line)
	298.64		298.64	
2+06.56	East Line of Block 13 T. J. Higgins Sub.	(2' Back) 293.10 6.49 6.52 F. 0.03	293.10 5.49	293.10 6.49 6.04 (2' Back) C. 045
			℄ 298.59	
	299.59		299.59	

Proposed Align. change
to Vet. Hospital, Linda Vista
from P7.

W.O. 90079

Moore
Bagg
Sherman
Bunch
12-24-48.



Sewer Levels

7+10	N'ly edge End AC Pav and Beg C&L				9.8 C	327.66
7					9.77	327.75
C+CO.C	Int. of Tang on FULTON				8.70	328.82
+50					8.31	329.21
C+37.55	Δ 17°, x' Rt.				7.77	329.75
C+33.43	Sly edge Beg AC Pav				7.59	329.93
T.P.		0.46	337.5± ✓	10.03	337.06	337.5± ✓
B.M.		0.73	347.09	3×C.3C	Top 1½" Bolt	CTR Top F.H. SEly Cor FULTON and East Ingersol

Contd P→8

8+58

8+46 E edge Con Pav E Lane

8+23 Wedge Con. E Lane

8+08.5 ℄ Hwy

8+01.1 E edge Con Pav. W Lane

7+11 end o.L Wedge Con Pav

7+50 o.L

℄

9.0 328.5

8.8 328.70

8.8C 328.66

8.8 328.7

8.83 328.69

9.05 328.47

9.9 327.6

Easement Blk. 9 Morscene Park Sub.

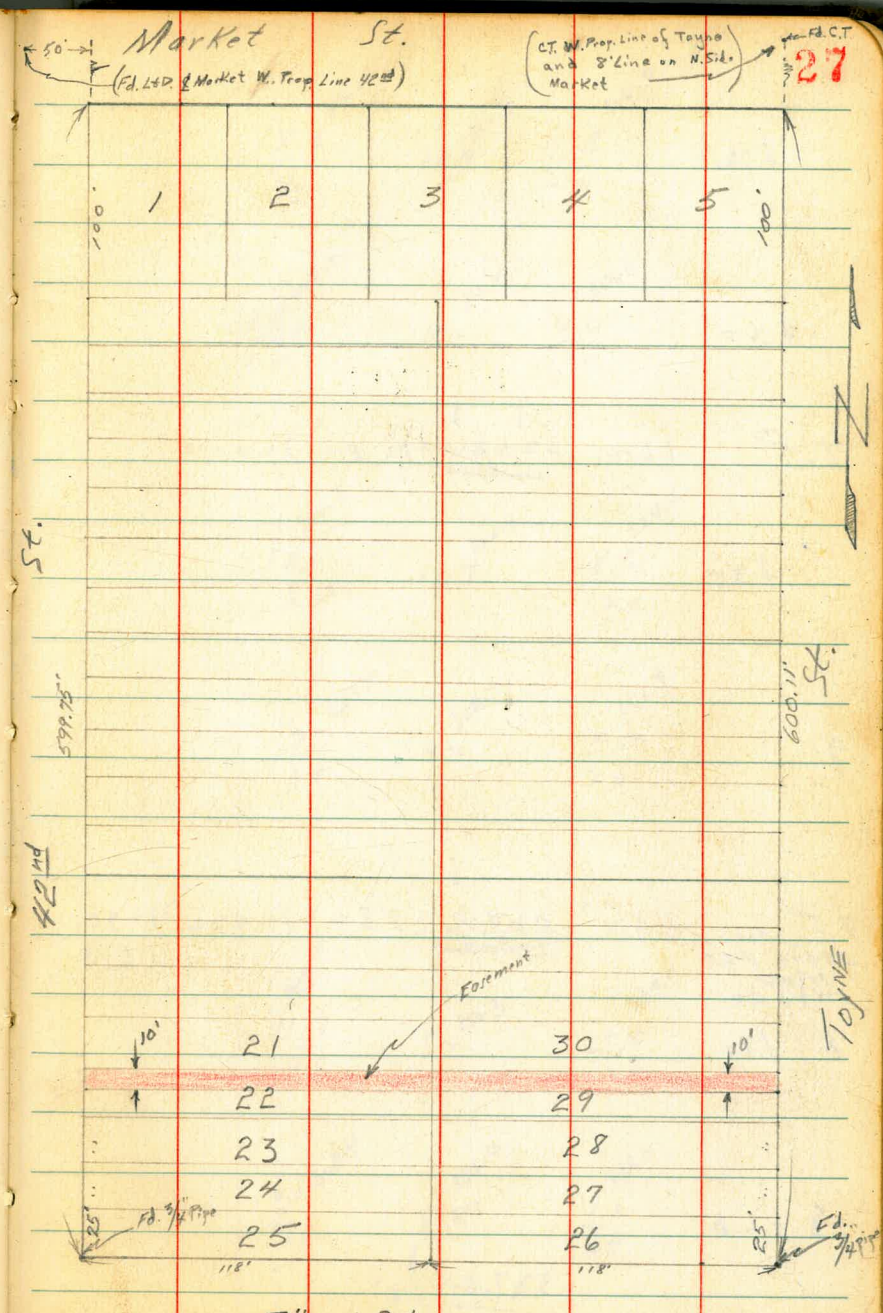
Map 7844 Sheet 2

Roberts vs Moore Clark 11-10-48

F.B. 1632, 1638

6916L - 3607B

INDEXED
WK
NOV 12 1948



+72					
+65					
T.P.	1.6	321.84	12.84	320.72	
+35					
9					
TP on State P.O.T. Mon. 149+50	3.3	333.06	7.80	329.72	329.6 P.13
8 +80					
8 +68		337.5			

Lt 9 Rt

306.2	310.9	315.0
15.6 / 25	10.9	5.8 / 20
304.4	311.2	317.8
17.4 / 25	10.6	4.0 / 20
	321.84	
314.5	320.4	324.5
18.6 / 25	12.7	8.6 / 20
323.4	328.7	332.9
9.7 / 25	4.4	0.2 / 20
	333.06	
328.4	332.3	337.0
11.7 / 25	5.2	0.5 / 25
328.4	332.0	336.2
9.1 / 25	5.5	1.3 / 25
	337.5	

Check to State B.M. 3½" Iron Bolt
8' Rt of 151+84
State Sta 5.72 316.12 316.02

10+35

+95

321.84

L R

316.6 325.3 329.8
3.7 +3.5 +8.0
25 20

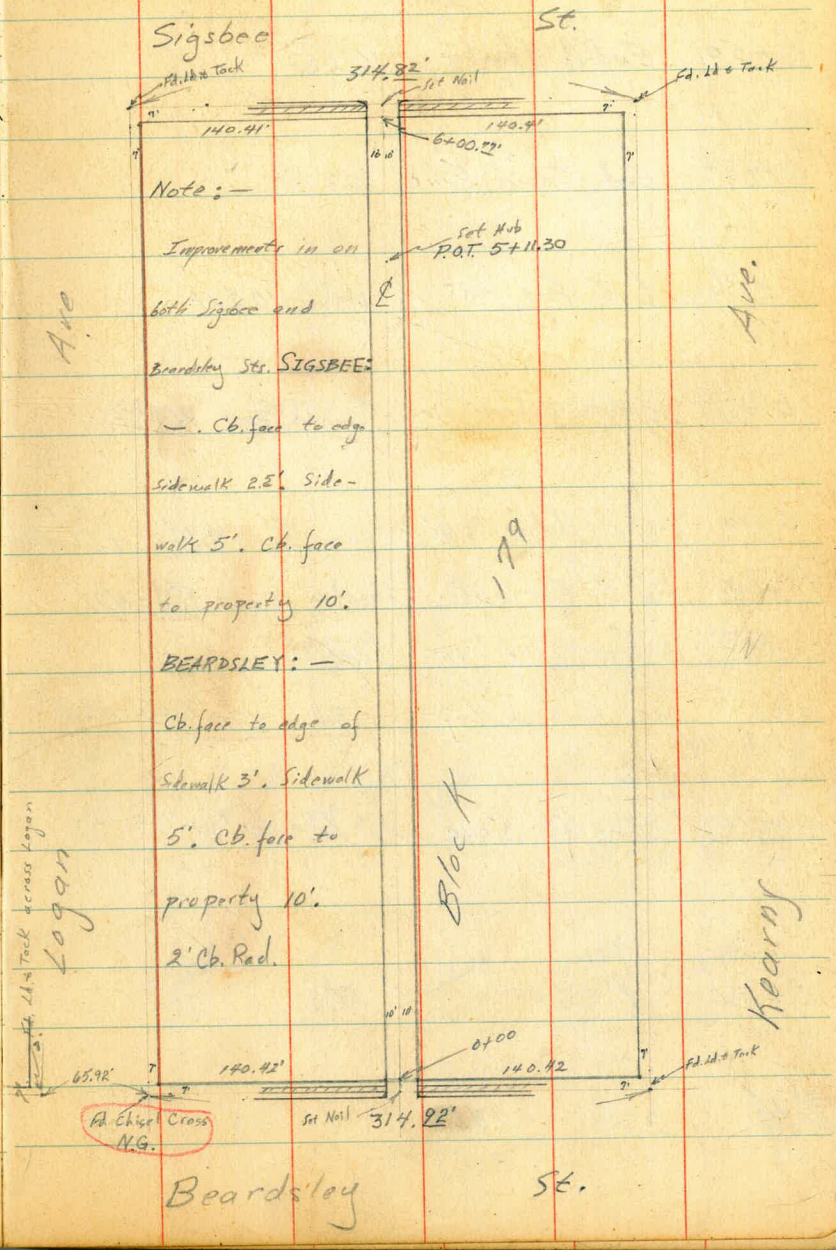
312.3 318.5 322.3
9.5 3.3 +0.5
25 20

321.84

Notes Reduced 12/27/48

X-Sect. Alley Block 179
Mannassee and Schiller
Beardsley to Sigsbee between
Logan and Kearny
T.B.359 Map 209

Roberts
W. Moore
Clark
2-7-49
WO. 315 12



	+	HI	-	Elev	BM
	Cont'd From Page 30				
0+50	End of Theatre 10' Lt.				
0+48.5	End Board Fence 10.2' Rt.				
0+46	℄ 5' Fire exit of theatre 10.2' Lt				
0+16.	End Wire Fence Begin Board Fence 10' Rt.				
0+10	Gas Meter 9.40' Lt. to Near Edge 8.70' Lt to 4" Pipe Guard Posts				
0+04	℄ 5' Fire exit of theatre 10.2' Lt. Rod = 4.72				
0+00	Prop. Line on Beardsley				
0-2	End. Curb on Left. Rod - 4.70 Elev. = 43.78				
0-10	Curb Line on Beardsley				
0-30	℄ Beardsley St.				
BM	2.44		48.48	46.04	S.E.B.P. Kearny & Beardsley

Lt.	℄	Rt.
	42.58 / 5.9 / 10	42.86 / 5.6	42.98 / 5.5 / 10
	43.72 / 4.76 / 10.2 Floor	
43.68 / 4.80 / 10.05 Bldg	43.52 / 4.96 Rim M.H.	44.08 / 4.40 / 9.90 Cb.	43.46 / 4.62 / 9.90 Gutt.	Begin wire fence / 10
42.81 / 6.27 / 100 Cb.	41.99 / 6.94 / 100 Gutt.	43.00 / 5.48 / 50 Cb.	42.96 / 6.22 / 50 Gutt.	43.52 / 4.96 / 12 Cb.	42.92 / 5.56 / 12. Gutt.	43.07 / 5.41	43.32 / 5.16 / 12 Gutt.	43.89 / 4.59 / 12 Cb.	43.79 / 4.69 / 50 Gutt.	44.43 / 4.05 / 50 Cb.	44.58 / 3.90 / 100 Gutt.	43.22 / 3.26 / 100 Cb.
42.07 / 6.41 / 100	42.65 / 6.83 / 50	43.44 / 5.04	44.20 / 4.28 / 50	44.88 / 3.60 / 100
		48.48	

Cont'd From Page 31

1+20 N.E. Cor. House 9.3' Lt

1+07 4" Soil Pipe 9.0' Lt. to face

1+04 End of Board Fence 9.4' Lt. S.E. Cor. House 9.6' Lt.

1+00

0+97± Power Pole #A1790 8.6' Lt. to Center

0+76 Begin Board Fence 9.8' Lt.

0+74± Power Pole #4123921H - 10.4' Rt. to Center of Pole
Begin Board Fence 8.6' Rt

0+68 ℄ of Double Garage 9.9' Lt.

0+63 ℄ of Double Garage 11.3' Rt

48.48

Lt.	℄	Rt.
	41.78 / 6.7 / 9.3 Floor Elev.	
41.68 / 6.8 / 20	41.68 / 6.8 / 12	42.18 / 6.3 / 10
42.38 / 6.1	42.48 / 6.0 / 10	42.48 / 6.0 / 15
	42.18 / 6.3 / 9.9 Dirt Floor	
		42.96 / 5.5 / 11.3 Dirt Floor

48.48

Cont'd From Page 32

		Lt.	℄	Rt.
T.P.	4.21	45.70	6.99	41.49
1+69	℄ Single Garage 11.2' Rt.			41.58 / 6.9 / 11.7 Dirt Floor
1+61	℄ Double Garage 9.2' Lt	41.58 / 6.9 / 9.2 Dirt Floor		
1+54	End of Board Fence 10' Rt.			
1+50		41.68 / 6.8 / 9.2	41.98 / 6.5	41.78 / 6.7 / 10
1+45	℄ Single Garage 9' Lt.	41.78 / 6.7 / 9 Dirt Floor		
1+39	End Board Fence 9.2' Lt.			
1+29	Begin Board Fence 9.2' Lt			
1+24	℄ Single Garage 9.3' Lt.	41.98 / 6.5 / 9.3 Dirt Floor		
	48.48	48.48		

Cont'd From Page 33

		Lt.	℄	Rt.
2+24	End Picket Fence begin shed 9.3' Lt.			
2+15	℄ 2' Sidewalk 9.2' Lt. Begin Picket Fence 9.1 Lt.			
2+14	℄ Double Garage 9.8' Rt.			
2+0.7	℄ Single Garage 11.6' Lt.			
2+04.5	End Board Fence 10' Rt.			
2+00	Power Pole #A1766 9.2' Lt to Center			
1+95	End Shed 10.5' Rt. Begin Board Fence 10' Rt.			
1+90	℄ Double Garage 11.2' Lt.			
1+75	Begin Shed 9.5 Rt.			

41.20
4.50
9.9
Conc.

41.20
4.5
9.8
Dirt Floor

41.20
4.5
11.6
Dirt Floor

41.30
4.4
10

41.40
4.3

41.40
4.4
10

41.20
4.5
11.7
Dirt Floor

45.70

45.70

Cont'd From Page 34

		Lt.	℄	Rt.
2+64	℄ of 3' WIDE DOOR 10' Rt			
2+61	END BOARD FENCE & BEGIN SHED 8.8 Lt.			
2+56	S.W COR. BLDG. 9.6 Rt. BEGIN SHED AT 9.6 Rt.			
2+52	℄ of single garage 9.3 Rt.			
2+50				
2+46	End of shed 8.8' Lt. Begin Bd. Fence 8.8' Lt			
2+33	℄ Double Garage 9.6' Rt.			
2+26	S.E. Cor. Bldg. 9.35' Rt.			
2+25	Telephone Pole # 305458 H 8.2' Rt to Center			

45.70

	Lt.	℄	Rt.
		41.00	
		4.7	
		10.1	
		DIRT FLOOR	
		41.00	
		4.7	
		9.3	
		DIRT FLOOR	
	40.40	40.40	41.10
	5.3	5.3	4.6
	15	10	8.8
41.20			41.00
4.5			4.7
			9.3
			41.10
			4.6
			9.6
			Dirt Floor

45.70

		Lt.	℄	Rt.
	Cont. From Pg. 35			
3+47	End of Picket Fence - $10\frac{4}{}$ Rt.			
3+41	Telephone Pole #4105604 $8\frac{7}{}$ Rt. to Center			
3+40	End of Dwelling - $9\frac{0}{}$ Lt.			
3+27	End of Board Fence - Begin ~~Shed~~ Dwelling - $8\frac{9}{}$ Lt.			
3+12	End of Board Fence - Begin Picket Fence - $10\frac{1}{}$ Rt.			
3+02	Power Pole #A1750 - $7\frac{65}{}$ Lt. to Center.			
3+01	End of Shed & Begin Board Fence - $9\frac{1}{}$ Lt.			
3+00		40.60 $\frac{4\frac{9}{}}{5\frac{1}{}}$	40.70 $5\frac{0}{}$	40.90 $\frac{4\frac{8}{}}{10}$ 41.00 $\frac{4\frac{7}{}}{15}$
2+89	End of Shed - $9\frac{9}{}$ Rt. & Begin Board Fence - $9\frac{9}{}$ Rt.			
2+81	℄ of Single Garage - Apron $9\frac{7}{}$ Rt. - Garage $10\frac{7}{}$ Rt.			41.09 $\frac{4\frac{61}{}}{9\frac{7}{}}$ Conc. 41.14 $\frac{4\frac{56}{}}{10\frac{2}{}}$ Conc.
		45.70	45.70	

Cont. from Pg. 36

4+13	℄ of 3 Car Garage - 10.3 Rt. Dirt Floor
4+02	Power Pole #A1734 - 8.0 Lt
4+00	
3+90	Begin of Patched Iron Sheet & Board Fence - 8.9 Lt
3+83	℄ of Single Garage - 8.9 Lt
3+73	℄ of Single Garage - 14.0 Rt
3+66	℄ of Double Garage - 12.0 Lt
3+57	End of Board Fence - 12.0 Lt.
3+53	Jog in Board Fence - 9.0 Lt. & 12.3 Lt.
3+50	

4570

Lt.	℄	Rt.
	39.40	
	6.3	
	10.3	
	Dirt Floor	
40.10		
5.6		
9		
39.60		
6.1		
6		
	39.40	
	6.3	
	39.30	
	6.4	
	2	
		39.50
		6.3
		10
		39.70
		6.0
		15
40.20		
5.5		
8.9		
Dirt Floor		
	40.16	
	5.54	
	14.0	
	Conc. Floor	
40.20		
5.5		
12.0		
Dirt Floor		
40.40		
5.3		
15		
40.40		
5.3		
9		
	40.20	
	5.5	
		40.20
		5.5
		10
		40.10
		5.6
		15

4570

CONT. FROM PAGE 37

4+74	TELEPHONE POLE # JPA 1719 & #A10559H - 9.3 Rt. TO CTR. BEGIN BOARD FENCE - 10.2 Rt. END OF SHED & BEGIN BOARD FENCE.
4+68.5	℄ OF SINGLE GARAGE - 10.6 Rt.
4+67	BEGIN OF SHED - 8.9 Lt.
4+63	END OF BOARD FENCE - 11.1 Rt.
4+51	END OF SHED - 8.5 Lt.
4+50	END OF DWELLING - 10.7 Rt. & BEGIN BOARD FENCE - 11.3 Rt.
4+45	2" SOIL PIPE - 10.3 Rt.
4+38	END OF BOARD FENCE & BEGIN DWELLING - 10.2 Rt.
4+27	℄ OF 2' WIDE CONC. WALK - 11.0 Rt.
4+26	BEGIN BOARD FENCE - 10.5 Rt.
4+23	END OF PATCHED IRON SHEET & BOARD FENCE & BEGIN SHED - 9' Lt.

45.70

LEFT	℄	RIGHT
37.70 8.0 / 9	37.10 8.6 / 6	37.00 8.7 / 7	37.00 8.7 / 7	36.40 9.3 / 10.6 DIRT FLOOR
38.30 7.5 / 8.5	37.60 7.9 / 7	37.40 8.3 / 1	37.60 8.1	37.90 7.8 / 10	36.90 8.8 / 12
				38.60 7.1 / 11.0 DIRT	38.24 7.46 / 11.0 CONC.	37.68 8.02 / 21.2

45.70

Cont. from Pg. 38

5+20					
5+19	Begin Shed 10 1/2' Rt				
5+15	& Conc. Steps & Walk 3' Wide - 10 8/2' Rt. 2 Steps 1' wide.				
5+06	Power Pole #A1716 - 8 3/2 Lt.				
5+05	Begin Board Fence 13 3/2 Lt.				
T.P.	0.86	38.00	8.56	37.14	Nail in Telephone Pole
5+00					
4+95	℄ of DOUBLE GARAGE - 9' Lt.				
4+84 5/2	END OF BOARD FENCE - 9 3/2 Lt.				

45.70

Lt	℄	Rt
37.30	36.60	35.50
0.8	1.4	2.2
13.5	10	7.5
	35.00	35.30
	3.0	2.7
		7.0
		34.90
		3.1
		10.8

35.14
2.86
20.8
Conc.

33.87
4.13
13
Conc.

38.00

36.90	36.20	36.10	35.90	36.10	35.70	34.50	
8 8/2	9 5/2	9 6/2	9 5/2	9 6/2	10 0/2	11 2/2	
9	6		2	8	10	12	

37.00
8 3/2
9 7/2
DIRT FLOOR

45.70

Cont'd From Page 39

5+63 Begin Conc. Retaing Wall on Angle 12" Rt
End Dwelling 12" Rt

5+57 End

5+52 Begin Dwelling 12 6" Rt

5+50 End of Shed Begin Picket Fence 11" Rt.

5+34

5+33

5+28

5+26 Jog in Fence 10' Lt & 13 5" Lt

38.00

Lt.	℄	Rt.
		32.72 5.28 / 12" conc.
29.60 8.4 / 20	29.70 8.3 / 13	32.50 5.5 / 12
32.50 5.5 / 10	32.60 5.4 / 10	31.90 6.1
32.50 5.5 / 10	32.90 5.1 / 13	
29.80 8.2 / 25	29.80 8.2 / 15	31.10 6.9 / 14
32.60 5.4 / 11	33.10 4.9 / 10	32.80 5.2
33.20 4.8 / 10		
30.20 7.8 / 25	30.60 7.4 / 18	32.30 5.7 / 16
35.00 3.0 / 10	34.10 3.9	34.60 3.4 / 10
33.00 5.0 / 20	33.30 4.7 / 16	35.20 2.8 / 10
34.10 3.9	34.60 3.4 / 10	
35.80 2.2 / 20	35.70 2.3 / 16	35.60 2.4 / 10
34.60 3.4	34.80 3.2 / 10	

38.00

Cont'd From Page 40

		Lt.	℄	Rt.
6+00.77	Prop. Line on Sigsbee			
6+00.5	Begin Paving & Curbs End of Drive way	26.48 11.52/9.8 Cb. 26.19 11.81/9.8 Gutt.	25.85 12.15	26.05 11.95/9.8 Gutt. 26.12 11.88/9.8 Cb. 26.93 11.07/10.8 conc.
5+90	Driveway Angles to point at End	27.40 10.6/20 27.50 10.5/10	27.20 10.8	27.90 10.1/10 27.92 10.08/11 conc. 28.17 9.83/20 conc.
5+80	End Board Fence 13' Lt.	28.30 9.7/30 28.60 9.4/20 29.50 8.5/13 29.50 8.5/10	28.90 9.1	29.50 8.5/10 28.60 9.40/11 conc.
5+73	Telephone Pole (No Number) 10^2' Rt to Center			
5+67.5	Bottom of Conc. Steps from Porch 12^7' Rt. Begin Conc. Drive Parallel to Alley 11' Rt			29.11 8.89/11 conc. 29.11 8.89/20 conc.
5+66	End of Conc. Retaining Wall 9' Rt.	29.50 8.5/20 29.50 8.5/14 31.80 6.2/13 31.90 6.1/10	31.00 7.0	30.70 7.3/9 Bott. wall 31.74 6.26/9 conc. 31.70 6.3/9 dirt 31.70 6.3/10 29.14 8.86/11 conc. 29.12 8.88/18
5+65	Across Top Conc. Porch 11^3' Rt			31.60 6.40/11^3 conc. 29.15 8.85/11^3 conc. 31.50 6.50/17^9 conc. 29.18 8.82/17^9 conc.

38.00

38.00

Cont'd from Page 41

Check			2,35	46.04	= 46.04 (Starting BM)
TP	691	48.39	4,46	41.48	
TP	8,80	45.94	1.15	37.14	
T.P.	12.00	38.29		26.29	
					NE BP Kearny and SIGSBEE
Check			4.87	23.40	= 23.50
T.P.	1.98	28.27	11.71	26.29	

6+30.77 ℄ Sigsbee

6+10.77 Curb Line on Sigsbee

38.00

	Lt.	℄	Rt
	27.41	26.38	25.17
	10.59 / 100	11.67 / 50	13.78 / 50
		12.53	
	24.22	23.10	
			14.90 / 100

Need New Cb, Rt. on the Right.

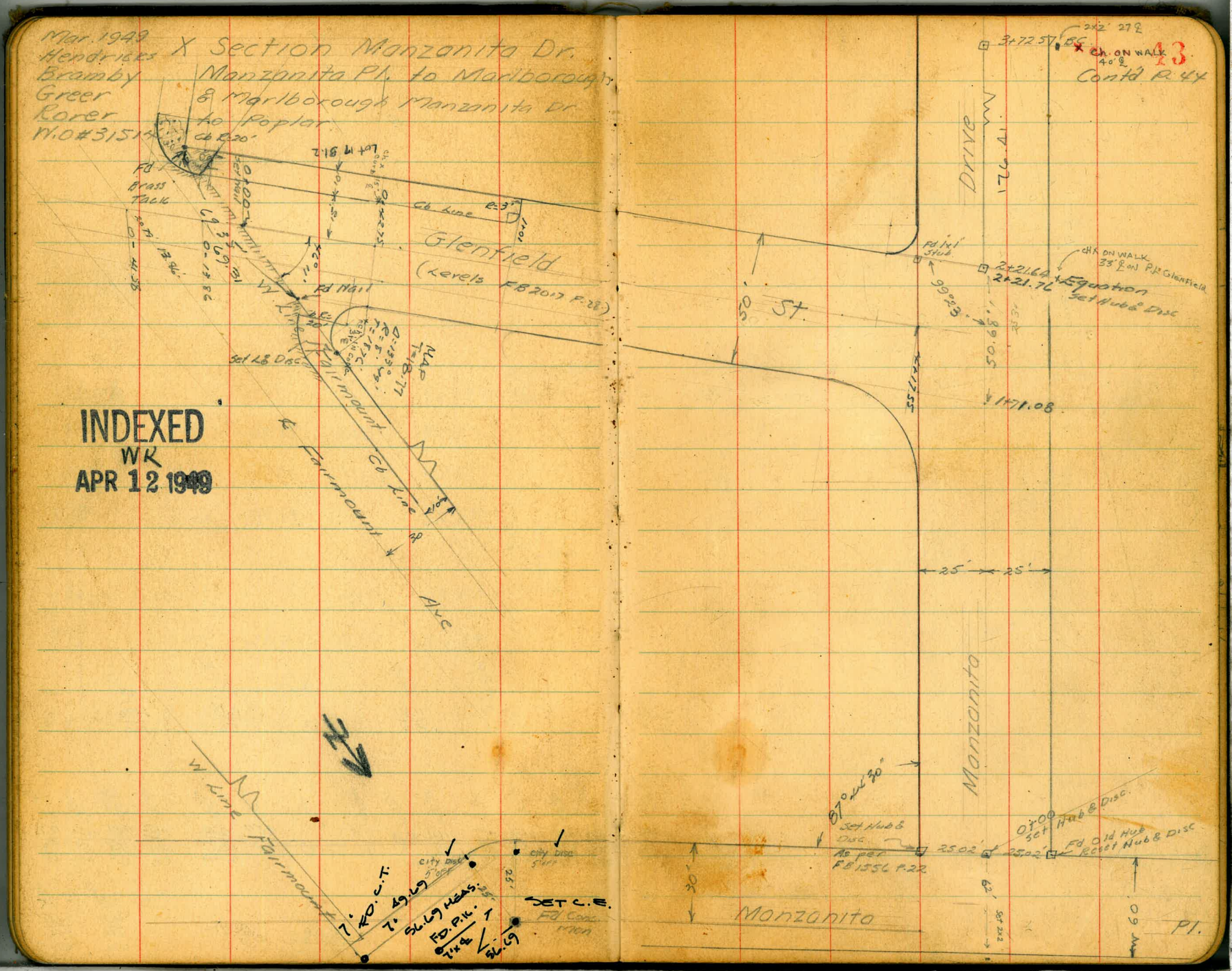
27.48	26.21	26.48	27.19	26.86	25.71	25.82	25.45	25.43	25.20	26.28	25.84	24.50	25.10		
10.52 / 100 Gutt	9.79 / 100 Cb.	11.52 / 50 Gutt	10.81 / 50 Cb.	11.64 / 12 Cb.	12.29 / 12 Gutt.	12.28 / 10	12.55	12.57 / 10	12.80 / 12.8 Gutter	11.72 / 12.8 Cb.	12.19 / 12.8 Cb	13.50 / 50 Gutt	12.96 / 50 Cb.		
							38.00							23.06	23.78
														14.92 / 100 Gutt	14.22 / 100 Cb.

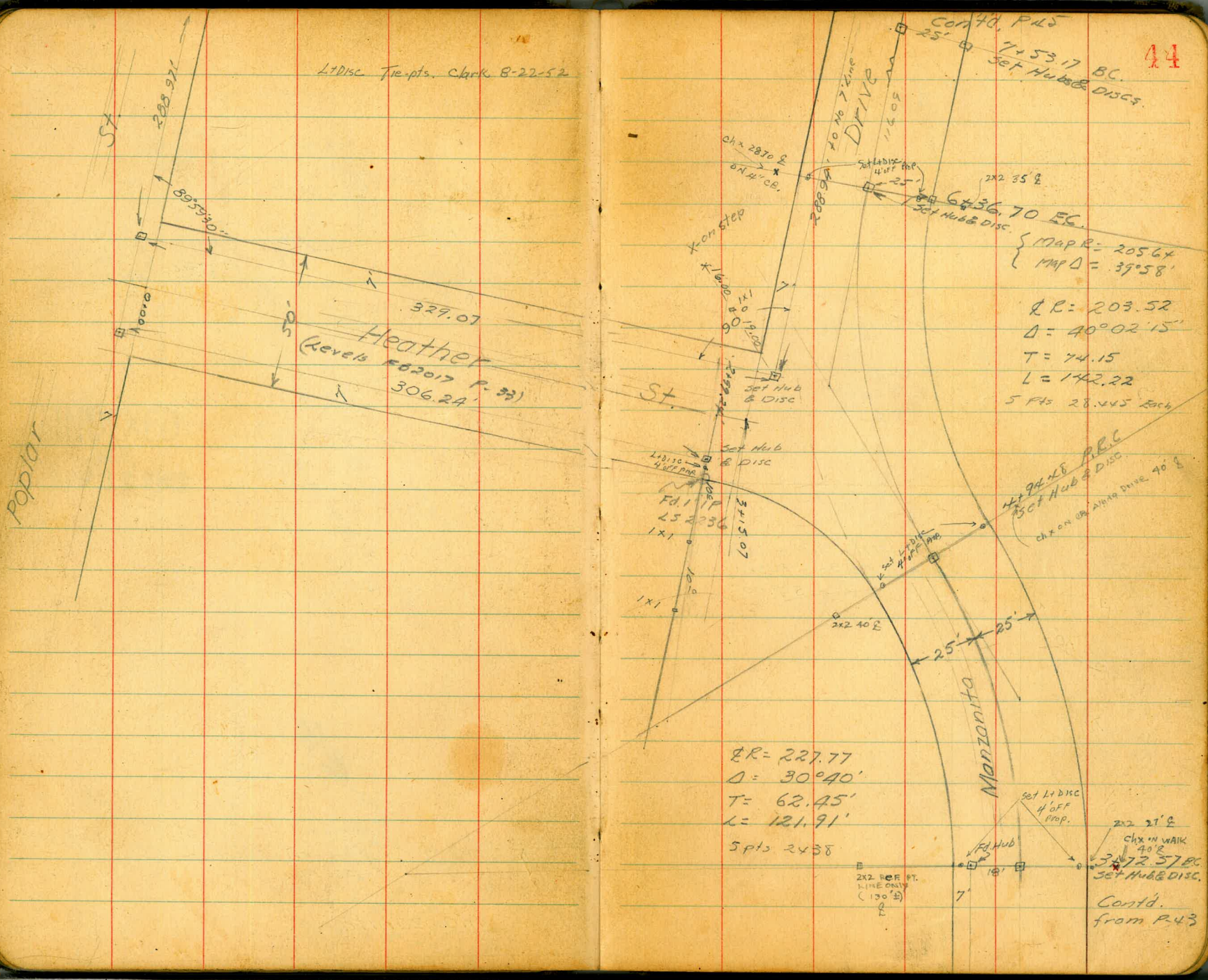
Mar. 1949
Hendriges
Bramby
Greer
Korer
W.O. #31514

X Section Manzanita Dr.

Manzanita Pl. to Marlborough
& Marlborough Manzanita Dr.
to Poplar

13
Contd. P. 44




Lt Disc Tie-pts. Clark 8-22-52
St.
288.97'
89°53'30"
329.07
Heather
(Levels #62017 P. 33)
306.24'
Poplar
Cont'd. P.L.S
25'
7+53.17 B.C.
Set Hub & Discs
DRIVE
to No 7 line
116.09
Chx 2870 ℄ on 4" CE.
Set Lt Disc 4' off Prop.
25'
2x2 35' ℄
6+36.70 E.C.
Set Hub & Disc.
Map R = 2056'
Map Δ = 39°58'
℄ R = 203.52
Δ = 40°02'15"
T = 74.15
L = 142.22
5 Pts 28.445 Each
X-on step
7+00 ± 0
90 15.00
Set Hub & Disc
St.
Set Hub & Disc
Lt Disc 4' off Prop
Fd 1" P
L.S. 2236
3+13.07
1x1
10'
2x2 40' ℄
25'
25'
Hub & Disc
Set Hub & Disc
Chx on ℄ Alvina Drive 40' ℄
Set Lt Disc 4' off Prop.
Monzonite
℄ R = 227.77
Δ = 30°40'
T = 62.45'
L = 121.91'
5 pts 24.38
Set Lt Disc 4' off Prop.
Fd Hub
10'
2x2 21' ℄
Chx in walk 40' R
3+72.57 B.C.
Set Hub & Disc.
2x2 R.C.E. PT. LINE ONLY (130'±)
℄
7'
Contd. from P. 43

11+58.55
9+46.98
149.57

Contd. R-46

11+58.55 BC
Set Hub & Disc.

Fd. Hub Reset

25'

25'

25'

Drive

Fd. old orig Hubs, re-placed with Hubs & 2x2 Rut & Disc.

9+46.98 EC
Set Hub & Disc.

X-in walk
37.00' from ℄

Map R=625
Changed to fit Pts Fd.

Set Chisel X in Drive

2x2

70°

℄ R=625.35
Δ = 54°14'
T = 31.33'
L = 58.44'

51°14'

40'

10'

Chis X in walk

Chis X in Drive

3+15.00

Set Hub & Disc

St.

Columbine
(Levels FB 2017 P-36)
329.00'

50'

7'

90°

Poplar

288.97'

St.

90°00'30"

1x1

Chis X in Walk

288.94'

Manzanita

9+08.54 PC
Set Hub & Disc

43°
Ref. 2x2
Fence Cor

℄ R = 228.65'
Δ = 38°56'
T = 80.82'
L = 155.37'
6 pts. 25.895 each
Map R = 225.35
Changed to fit Points Fd.

Set L+Disc. 4' off Proj.

2x2 70° ℄

2x2 30° ℄

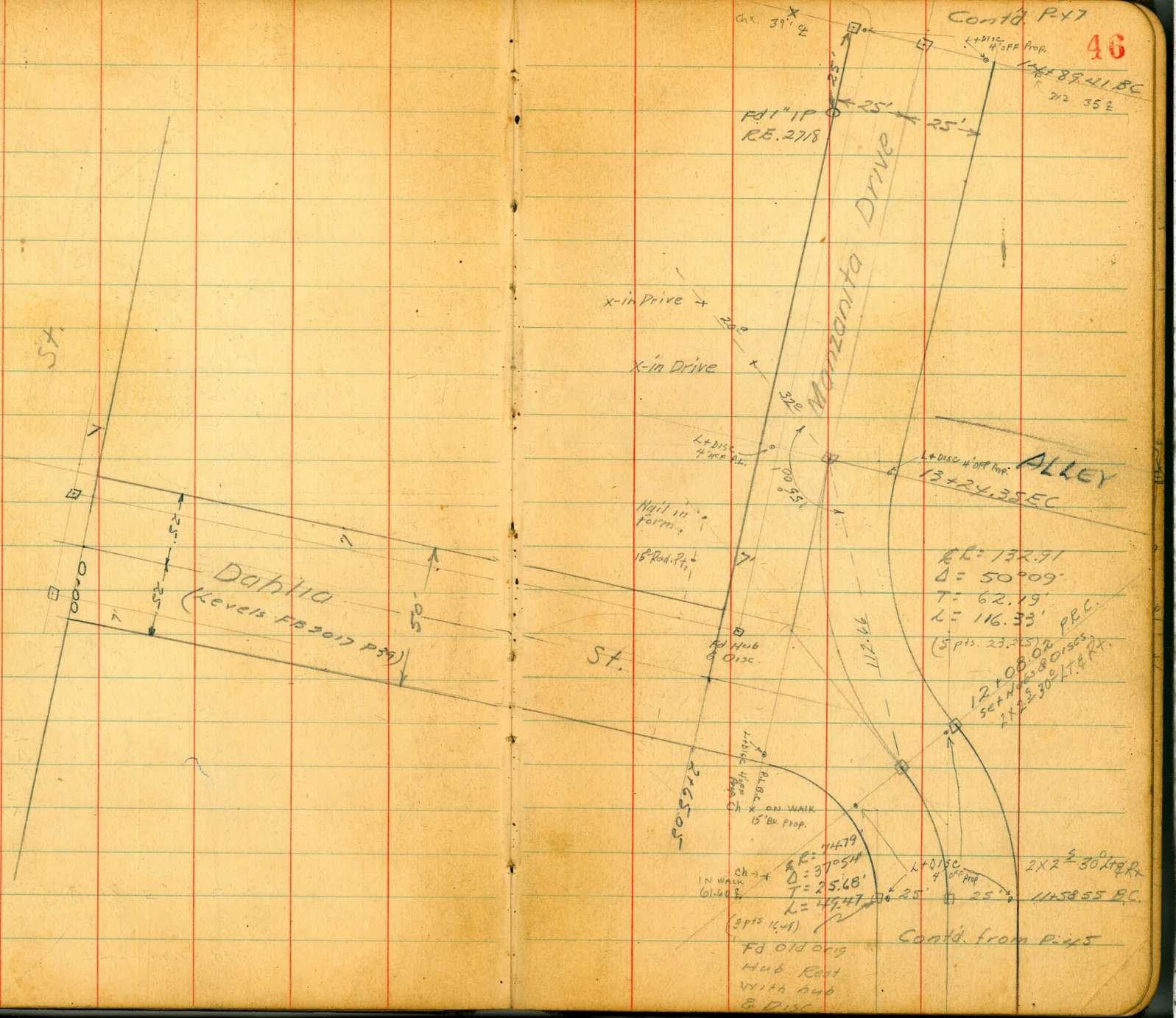
25'

25'

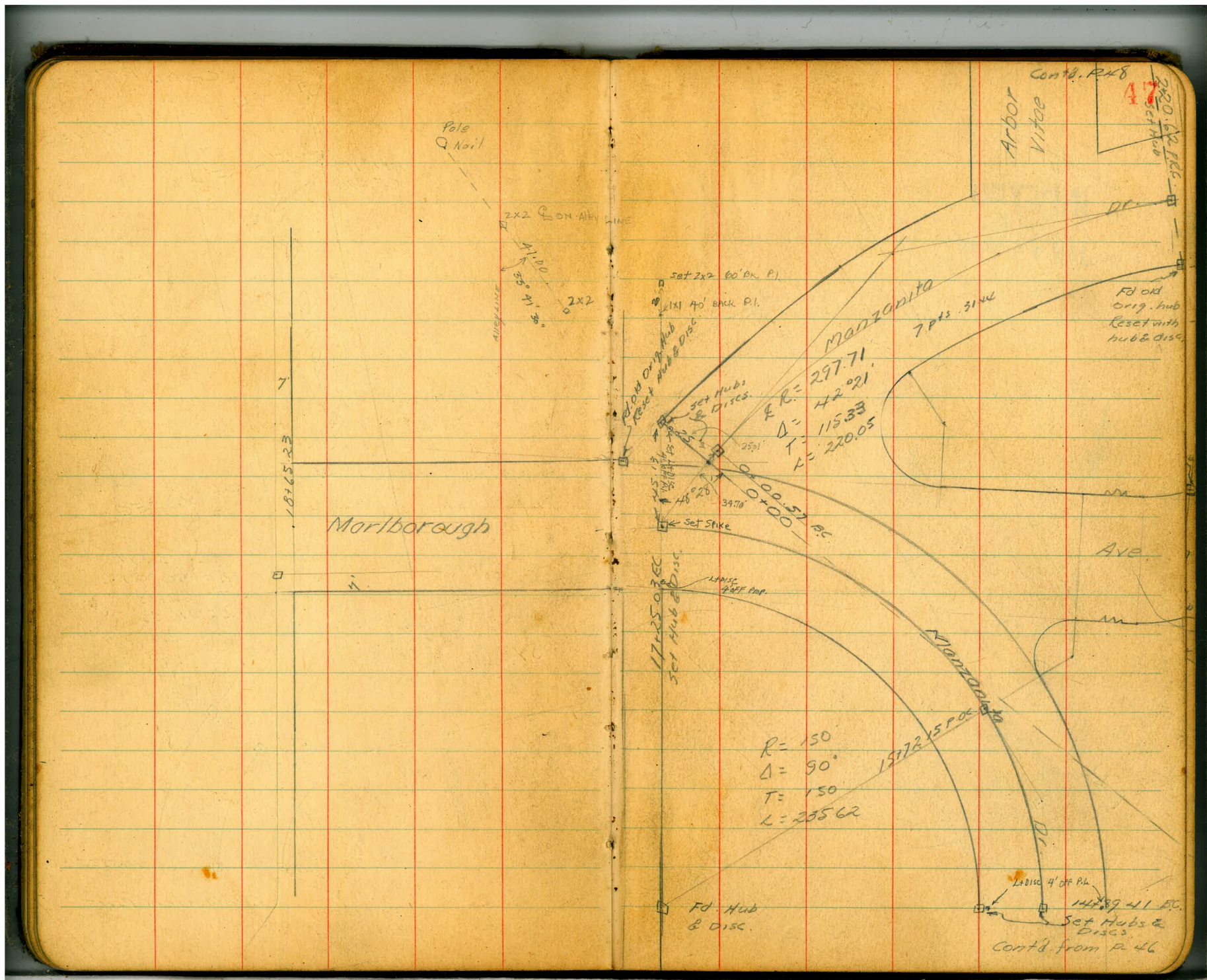
7+53.17 BC
Set Hubs & Discs.

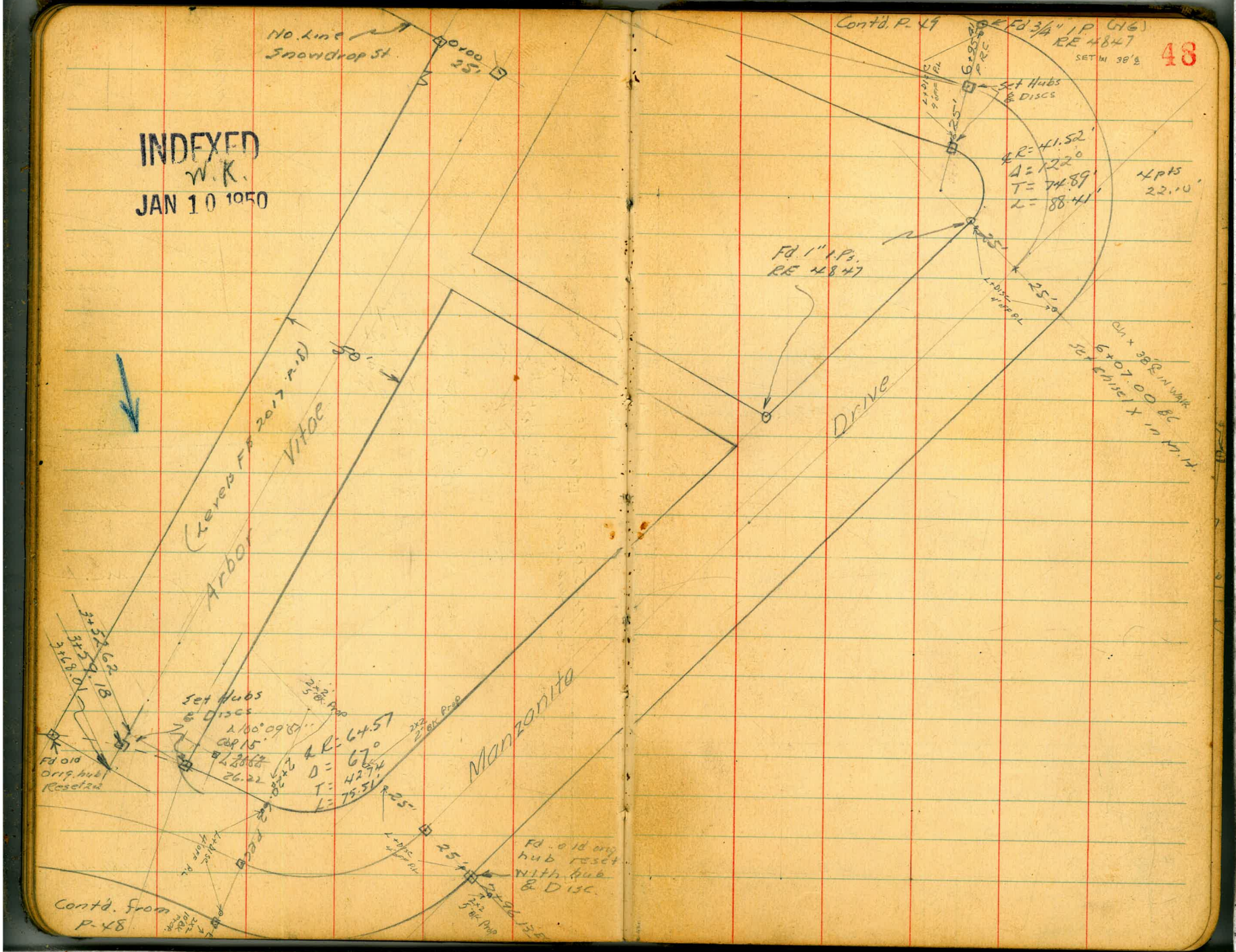
Contd from P-44

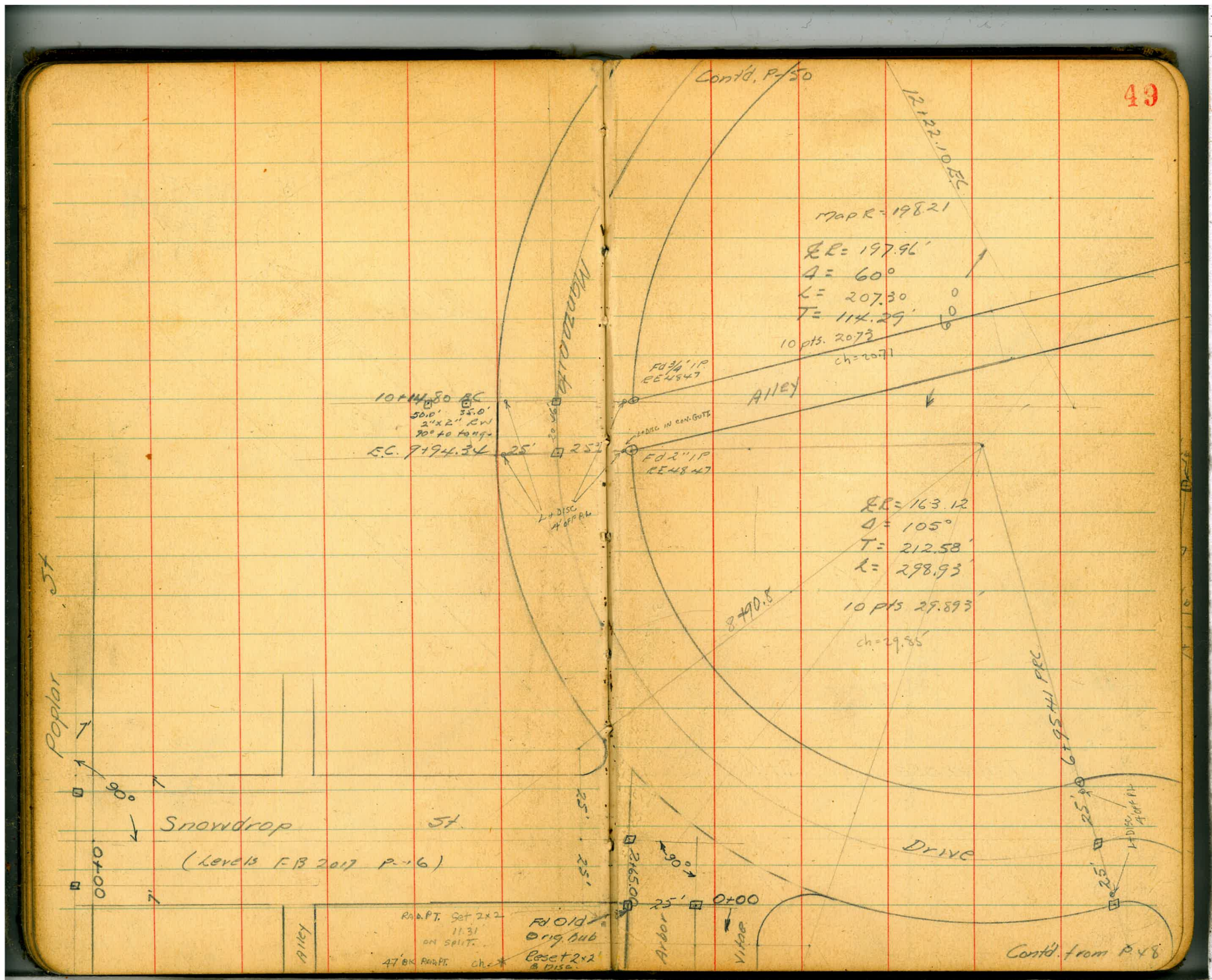
Contd. P-47



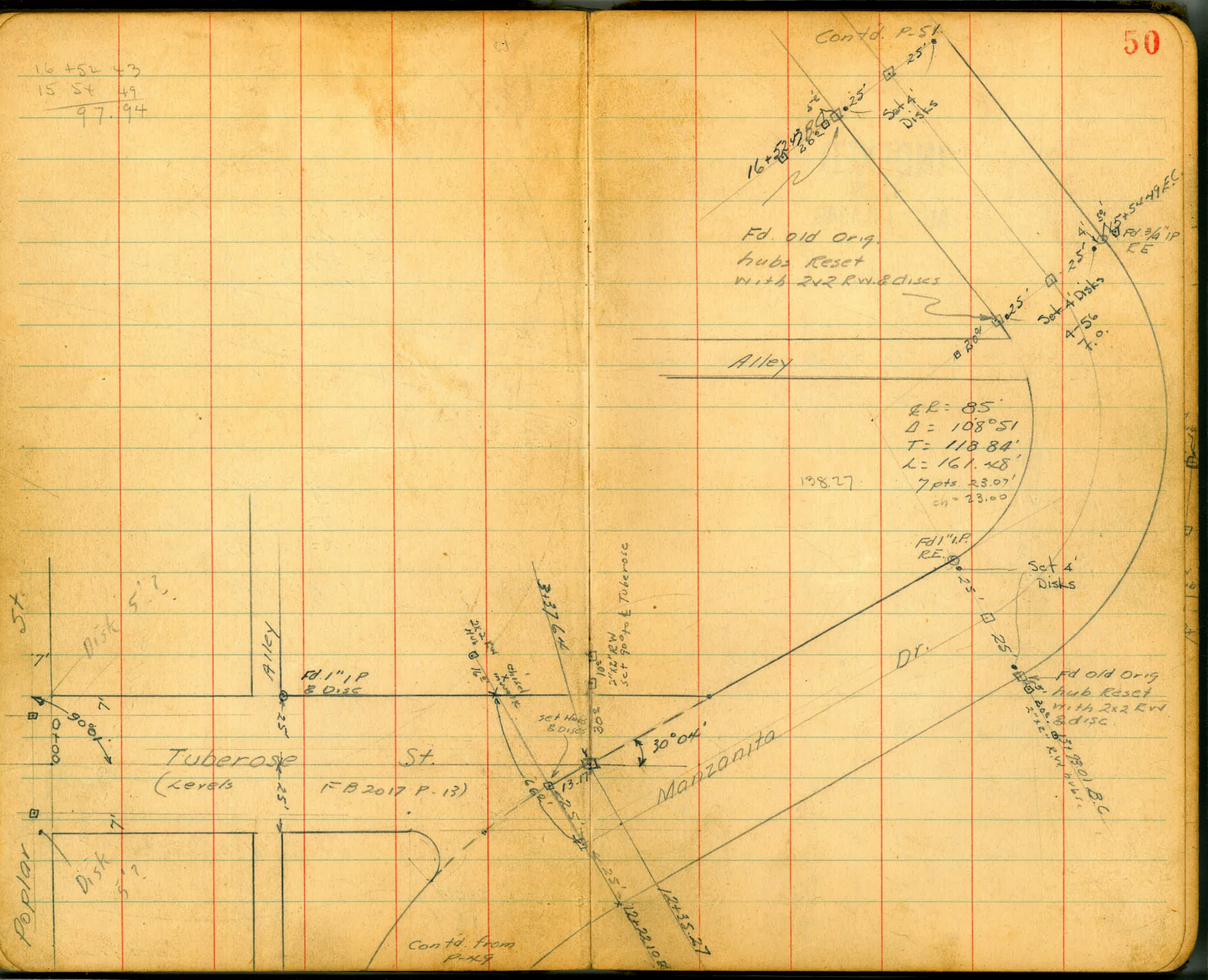
Contd. from P-45

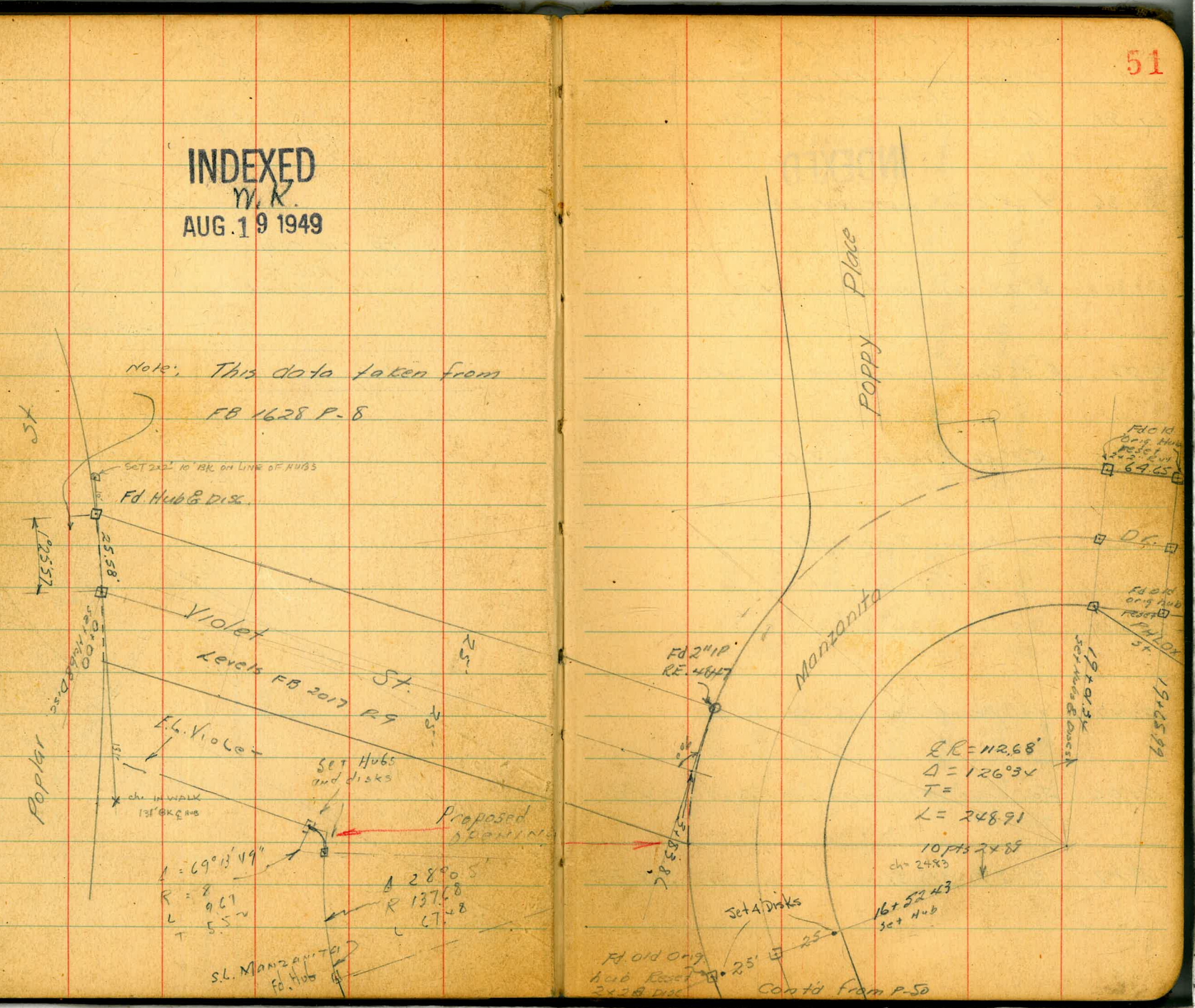

Pole
Q Nail
2x2 ON Alley LINE
41.00
35° 41' 30"
2x2
ALLEY LINE
7'
18+65.23
Marlborough
5'
Set 2x2 60' BK. P.I.
1x1 40' BACK P.I.
Fd Old orig. Hub Reset Hub & Disc.
Set Hubs & Discs.
25.01'
45° 28'
34.78'
Set Spike
0+00.57 P.C.
0+00
Manzanita
7 pts. 31 Ac
R = 297.71
Δ = 42° 21'
T = 115.33
L = 220.05
Fd Old orig. hub Reset with hub & disc.
Arbor Vitae
Cont'd. R+8
220.16 R.R. Rec.
Set Hub
Dr.
Ave.
17+25.03 EC
Set Hub & Disc.
4 Disc Stff Pnp.
Manzanita
R = 150
Δ = 90°
T = 150
L = 235.62
15+72.15 P.O.C.
4 Disc 4' Off P.L.
14+89.41 E.C.
Set Hubs & Discs
Fd. Hub & Disc.
Cont'd from P. 46




Contd. P-50
12122.10 EC
Map R = 1982'
ER = 197.96'
Δ = 60°
L = 207.30'
T = 114.29'
10 pts. 20.73'
ch = 20.71'
Magnolia
10+14.80 BC
50.0' 25.0'
2"x2" RW
90° to tang.
EC 7+94.34
25'
25'
1/2" DISC
4' OFF P.L.
Fd 3/4" IP
RE 48 47
1/2" DISC IN CON. GUTT.
Fd 2" IP
RE 48 47
Alley
ER = 163.12
Δ = 105°
T = 212.58'
L = 298.93'
10 pts 29.893'
ch = 29.85'
8+90.5
Poplar St.
90°
Snowdrop St.
(Level is EB 2017 P-16)
0+00
25'
25'
25'
Alley
Rad. Pt. Set 2x2
11.31
on split.
47' BK Rad. Pt.
ch.
Fd Old
Orig. Bnd
Reset 2x2
& Disc.
2+65.50
90°
25'
0+00
Arbor Vitae
Drive
25'
1/2" DISC
4' OFF P.L.
Contd. from P-48

16+52.43
15 54.49
97.94





Levels Manzanita Dr

Manzanita Pl. to Marlborough

Sketch P. 43-47

0+91	℄ 3.5 Conc. Walk 25.6 Lt.	
	INDEXED	
0+86	℄ 3' Conc. Walk 24.2 Rt.	
0+80.5	℄ 2.5' Conc. Split Drive 24.2	
0+73	℄ 2.5 Conc. Split Drive 24.2 Rt.	
0+68.5	℄ 2' Conc. Walk 22.5 Rt.	
0+65	12" Pepper Tree 17' Rt.	
0+50		
0+47	12" Pepper Tree 16' Rt.	
0+00	So. Line Manzanita Place (P. 43)	
BM	0.29 318.31	318.02

℄

311.9	312.0	311.5	311.8	311.3	311.1	310.9	
6.4	6.3	6.8	6.1	7.0	7.2	7.4	
35	25	11		13	25	40	
313.9	313.8	313.8	313.2	313.6	313.5	313.0	312.4
4.4	4.5	4.5	5.1	4.7	4.8	5.3	5.9
33	25	20	18		8	25	40

318.31

SE. BP Thorn & Fairmount

311.21	310.83						
7.0	7.8						
35	25.6						
		310.40		310.18			
		7.9		8.1			
		24.2		35			
		310.46		310.23			
		8.5		8.0			
		24.2		35			
		310.42		310.19			
		8.5		8.2			
		24.2		35			
		310.85		310.87			
		1.6		1.4			
		22.5		22.5			

X Sect Manzanita Dr Cont'd

1+59 10" Acacia Tree 15.3 Rt

1+525 @ 8' Conc. Drive 14' Rt.

1+50

1+45 @ 3' Conc. Walk 21' Lt

1+30 @ 8' Conc Drive 16' Lt

1+24 Power Pole # JP 4323 17.4 Lt

1+18 6" Pepper Tree 24.7 Lt

1+00

0+92 10" Acacia Tree 17.2 Lt.

318.31

@

308.65 308.13

9.66 10.18

14 28

309.8 309.4 309.2 308.3 308.7 308.1 308.68 308.18 307.94

8.5 8.9 9.1 10.0 9.6 10.2 9.63 10.13 10.37

35 25 22 14 11 14 25 35

Drive

309.54 309.35

8.7 8.6

+10' 21

up Drive

310.00 309.74

8.25 8.57

+14' 16'

up Drive

311.0 310.7 310.4 309.7 310.3 309.5 310.2 310.1 310.0

7.3 7.6 7.9 8.6 8.0 8.8 8.1 8.2 8.3

35 25 16 11 13 15 25 35

318.31

X-Sect. Manzanita Dr. Cont'd

2+50					
2+38	Power Pole # 4249 16.5 Lt.				
2+31	℄ 8' Conc Drive 24.8 Rt.				
2+16	℄ 3' Conc. Walk 24.7 Rt.				
2+00	No. Edge 2' Conc Walk 24.6 Rt.				
T.P.	1.55	307.96	11.90	306.41	306.38
1+80	10" Acacia Tree 15' Rt.				

318.31

℄

306.1	305.7	305.5	305.0	305.0	305.5	305.1	304.4	305.0	304.8	304.8
1.9	2.3	2.5	3.0	3.0	2.5	2.9	3.6	3.0	3.2	3.3
24	25	14	12	7		6	11	13	25	35

305.72	304.88
2.24	3.08
24.8	36

306.14	305.83
1.82	2.13
24.7	35

307.5	307.3	307.1	306.5	307.1	306.79	306.19
0.5	0.7	0.9	1.5	0.2	1.17	1.77
25	6		10	14	24.6	35

307.96

(On SE PI Stub FB 1624 P. 43)
(Glenfield & Manzanita Dr.)

318.31

xSect. Manzanita Dr. Cont'd

2+11 ℄ 8' Conc. Drive 25' Rt.

3+00

2+96 ℄ 3' Conc. Walk 25' Rt.

2+70.5 ℄ 8' Conc. Drive 25' Rt.

2+55 ℄ 3' Conc. Walk 24.8 Rt.

307.96

℄

303.10 302.12

304.1 304.1 303.6 303.6 303.8 303.5 303.0 303.4 303.1 302.7

303.48 303.09

304.28 304.34

304.91 304.60

307.96

x Sect. Manzanita Dr Contd

4+14 Production of 3' Conc. Walk 25' Rt.

4+21.33

3+96.95

(Curve divided into 5 parts)

3+72.57 BC

3+55 Power Pole # PH281 16' Lt.

3+50

3+49 Anchor Pole 16.5 Rt.

3+42 ℄ 4.5' Conc Walk 25.2 Rt.

30796

℄

301.1	301.0	301.0	300.3	300.5	300.6	300.64		300.31			
6.9	7.0	7.0	7.2	7.5	7.4	8.1	299.9	7.6	300.4	7.1	300.3	7.8	300.2
35	25	16	14	6		8		12		25		35	
301.5	301.5	301.4	300.7	301.2	300.7	301.0	300.8	300.6			
6.5	6.5	6.6	7.3	6.8	7.3	7.0	7.2	7.4			
35	25	15	13		9	12	25	35			
302.2	302.1	301.8	301.3	301.8	301.8	301.2	301.5	301.5	301.5		
5.8	5.9	6.2	6.7	6.1	6.2	6.8	6.4	6.5	6.5		
35	25	14	12		3	9	12	25	35		
302.9	302.9	302.6	302.2	302.4	302.3	301.7	302.2	302.3	302.2		
5.1	5.1	5.4	5.8	5.6	5.7	6.3	5.8	5.7	5.8		
30	25	15	10		4	11	15	25	35		
302.45	302.46										
5.51	5.50										
25.2	35										

30796

℄

X Sect Manzanita Dr. Contd.

5+04 Power Pole #PL264 17.7 Rt

4+94.48 P.R.C. (Curve in 5 pts)

4+80 ℄ 3' Conc. Walk Produced 24.6 Rt.

4+70.09

4+49.90 ℄ 8' Conc. Drive Produced (24' on Lt)

4+45.71

4+34 Prod 8' Conc. Drive 25.8 Rt

30796

	299.9	299.7	299.3	298.8	298.5	298.4	297.8		
	8.1	8.3	8.7	9.2	9.5	9.6	10.3		
35?	25	25	14		12	25	35		
					298.63	298.39			
					9.3	9.2			
					24.6	35			
	300.5	300.1	299.8	299.5	299.5	298.8	298.6	298.5	
	7.5	7.9	8.2	8.5	8.5	9.2	9.4	9.5	
	24	25	16	14		11	25	35	
		300.79	300.50						
		7.7	7.46						
		24	24						
	300.7	300.4	299.8	300.0	299.2	299.4	298.9	298.6	
	7.3	7.6	8.2	8.0	8.8	8.6	9.1	9.4	
	24	25	15		10	11	25	35	
					300.21	300.05			
					7.75	7.91			
					25.8	35			

30796

x Sect Manzanita Dr Contd

5+85 ℄ Produced of a 3' Conc Walk 14.2 Rt

5+61 ℄ Produced of a 6.5 Split Drive

5+51.97

5+32.92

5+10 ℄ 8' Conc Drive Produced 27.8 Rt.

T.P 330 30203 9.23 298.73

30796

℄

297.66 297.63

4.37 4.40

14.2 25.

297.84 297.76

4.19 4.27

13 25

No slip (North?)

298.7 298.9 298.1 297.4 297.7 297.5 297.1

3.3 3.4 3.9 4.6 4.3 4.1 4.?

25 13 12 13 25 34

299.5 299.3 298.8 298.6 297.7 298.2 298.0 297.7

2.5 2.7 3.2 3.4 4.1 3.8 4.0 4.3

35 25 7 12 14 25 35

298.28 297.85

3.75 4.19

27.8 38

30203

On ℄ Hub 4+94.48

30796

X Sect. 1 Manzanita Dr.

6+84 ℄ 2' Conc. Walk 13.1 Rt.

6+70

6+42 Power Pole # P-4254 16.6 Rt.

6+36.70 E.C.

6+08.26

5+79.81

302.03

℄

							295.27		295.04	
							6+76		6+99	
							13.1		25	
296.8	296.6	296.3	295.7	296.0	296.0	294.9		295.4	295.1	294.9
5+3	5+4	5+7	6+3	6+0	6+0	7+1		6+6	6+9	7+1
30	25	15	12	4		11		14	25	30
297.8	297.7	297.3	296.6	296.9		295.7		296.7	296.2	295.6
4+3	4+3	4+7	5+4	5+1		6+3		5+3	5+8	6+4
30	25	17	12			12		16	25	35
298.6	297.9	297.7	297.3	297.5		296.9		296.9	296.6	296.1
3+4	4+1	4+3	4+7	4+5		5+4		5+1	5+4	5+9
35	28	17	13			12		15	25	35
298.6	298.3	297.9	298.1	297.9		297.2		297.5	297.6	297.2
3+4	3+7	4+1	3+9	4+1		4+8		4+5	4+4	4+8
35	25	19	9			11		14	25	35

302.03
1

X Sect. Manzanita Dr.

8+18 ℄ Produced of a 1.5' Conc. Walk 19.5 Rt.

8+04.94

7+95 ℄ Produced of a 10' Conc. Drive 25.7 Rt

7+79.05

(Curve in 6 pts)

7+53.17 B.C.

7+00

302.03

℄

294.16 294.07

295.6 295.1 295.0 294.6 294.4 294.3 293.6 293.7 293.7

295.4 295.1 294.4 294.1 293.9 293.6 292.5 291.9

295.4 295.3 294.9 294.2 294.1 293.8 293.5 292.6 291.8

296.6 296.4 295.8 295.0 295.2 294.5 294.9 294.6 294.5

302.03

X Sect Manzanita Dr. Cont'd.

19+28.02

(Curve in 3 pts)

9+08.54 P.R.C. Guy Pole 18' Rt.

T.P. 261 297.59 705 29498

8+82.59

8+56.71

8+30.82

302.03

295.0 295.0 294.9 294.1 294.6 294.0 293.3 292.9

2+ 2+ 2+ 3+ 3+ 3+ 4+ 4+
35 25 16 13 10 25 35

295.4 295.4 295.4 294.5 295.1 294.6 294.2 294.4 294.3 293.8

2+ 2+ 2+ 3+ 2+ 3+ 3+ 3+ 3+ 3+
35 25 17 11 9 13 18 25 35

297.59

On ℄ Hub 9+08.54 P.R.C.

295.7 295.5 295.4 294.9 295.3 295.5 294.8 295.8 295.2 295.0

6+ 6+ 6+ 7+ 6+ 6+ 7+ 6+ 6+ 7+
40 25 21 19 10 13 20 25 35

295.6 295.7 295.7 295.4 294.9 295.3 295.1 294.7

6+ 6+ 6+ 6+ 7+ 6+ 6+ 7+
45 25 20 13 17 25 35

295.3 295.1 295.0 294.3 294.4 294.7 294.4 294.0

6+ 6+ 7+ 7+ 7+ 7+ 7+ 8+
35 25 18 13 17 25 35

302.03

X Sect. Manzanita Dr. Cont'd.

11+00

10+50

10+48 Power Pole # PH275 21.8 Lt.

10+00

9+66.98 EC

9+47.50

297.59

62

292.0	291.5	291.0	290.2	290.3	289.8	289.0	288.2	
5.6	6.1	6.6	7.4	7.3	7.8	8.6	9.4	
35	25	15	10		12	25	35	
293.2	293.0	292.6	291.5	292.0	291.4	291.7	290.5	289.5
4.4	4.6	5.0	6.1	5.6	6.2	5.9	7.1	8.1
35	25	14	10		11	16	25	35
293.7	293.5	293.2	292.5	292.9	292.5	291.1	290.3	
3.9	4.1	4.4	5.1	4.7	5.1	6.5	7.3	
35	25	17	12		10	25	35	
294.5	294.3	294.1	293.3	293.6	292.8	291.7	290.7	
3.1	3.3	3.5	4.3	4.0	4.8	5.9	6.9	
35	25	15	13		11	25	35	
294.6	294.6	294.4	293.7	294.1	293.4	292.4	291.6	
3.0	3.0	3.2	3.9	3.5	4.2	5.2	6.0	
35	25	16	14		9	25	35	

297.59

X Sect. Manzanita Dr. Cont'd.

12+50 Anchor Pole 13' Rt #2260

12+31.28

Curve in 5 pts.

T.P. 2.91 290.23 10.27 287.32

12+08.02 P.R.C.

11+91.53

11+75.04

Curve in 3 pts.

11+58.55 P.C.

297.59

℄

289.4 289.2 289.0 287.3 286.7 285.8 286.0 285.6 284.7 282.7

0.8 1.0 1.2 2.9 3.1 4.4 4.2 4.6 5.5 7.5
35 25 20 16 9 11 19 25 35

290.23

on ℄ Hub 12+08.02 P.R.C.

289.8 289.5 289.3 287.4 287.4 287.0 287.4 286.2 284.7

7.8 8.1 8.3 10.2 10.2 10.6 10.2 11.4 12.9
35 25 16 11 9 16 25 35

290.1 289.6 289.4 287.5 287.8 287.7 287.8 287.1 285.9

7.8 8.0 8.2 10.1 9.8 9.9 9.8 10.4 11.7
35 25 16 12 9 15 25 35

290.3 289.7 289.4 287.7 288.1 288.0 287.4 286.3

7.3 7.9 8.2 9.9 9.4 9.6 10.2 11.1
35 25 16 12 12 25 35

290.6 290.0 289.3 288.0 288.5 288.3 287.0 287.0 286.6

7.0 7.6 8.3 9.6 9.1 9.3 10.6 10.6 11.0
35 25 15 11 10 20 25 35

297.59

X Sect Manzanita Dr. Cont'd

13+38

13+24.35 EC (ALLEY)

13+01.08

12+77.81

12+54.55

290.23

281.7 280.1 279.8 280.0 278.0 273.0 269.0 267.1 265.1

8.8 10.1 10.4 10.2 12.2 17.2 21.2 23.4 25.1
35 20 2 9 17 23 30 40

18' X-Sect 75'

262.4 281.1 280.2 279.9 280.4 280.4 277.1 274.3 266.9 264.4

7.8 9.1 10.0 10.3 9.8 9.8 13.1 15.9 23.2 25.8
35 25 19 2 5 18 25 34 40

287.2 276.6 281.7 281.1 281.5 279.5 274.9 266.3

6.0 11.4 8.4 9.1 8.7 10.7 15.2 23.9
47 25 18 2 25 35 50

287.3 285.5 284.2 282.9 283.2 281.9 280.1 277.9

2.9 4.7 6.0 7.2 7.0 8.2 10.1 12.3
50 31 19 2 16 25 34

287.5 287.4 286.9 284.9 284.3 284.8 282.8 281.4

2.7 2.8 3.2 5.3 5.9 5.4 7.4 8.8
50 40 22 7 8 25 35

290.23

X Section Manzanita Dr Contd.

14+23 ℄ 8' Conc Drive 25.1 Rt.

14+05 ℄ 3.5' Conc. Walk 25.1' Rt.

14+00

13+84 Power Pole # 4226 23' Rt.

13+60

13+52 ℄ 20' Conc. Drive 20' Lt.

290.23

℄

						279.13	278.62		
						11.0	11.6		
						25.1	35		
						278.28	278.09		
						11.5	12.4		
						25.1	35		
282.9	282.8	280.7	279.8	279.5	279.2	278.7	278.3	278.1	
6.4	7.4	9.5	10.4	10.7	11.0	11.5	11.9	12.1	
35	25	19	12		10	12	25	35	
281.99	280.47	279.8	279.5	279.6	277.8	277.9	277.1	275.5	
8.24	9.76	10.4	10.7	10.6	12.2	12.3	13.1	14.7	
35	20	16		4	16	22	30	45	
	Drive								
282.03	280.36								
8.20	9.87								
35	20								

290.23

X Section Manzanita Dr. Contd.

15+00

T.P. 10.19 290.60 9.82 280.41

14+89.41 B.C.

14+64 ℄ 3.5' Conc. Walk 25.2 Rt.

14+50

14+46 ℄ 8' Conc. Drive 25.1' Rt.

290.23

℄

285.9	285.4	285.5	281.4	280.3	280.8	280.8	280.0	279.8
4.1	5.2	5.4	9.2	10.3	9.8	9.8	10.6	10.8
35	25	22	9	2		5	25	35

290.60

286.1	285.5	285.4	280.8	280.3	280.3	279.8	279.6
4.1	4.7	4.8	9.4	9.9	9.7	10.4	10.6
35	25	22	7	2		25	35

279.80	279.42
10.43	10.81
25.2	35

285.7	284.9	284.8	281.0	280.0	280.0	280.3	279.9	279.4	279.1
4.14	5.14	5.4	9.2	10.3	10.2	9.9	10.3	10.8	11.1
35	25	23	14	6		5	17	25	35

279.34	279.10
10.89	11.13
25.1	35

290.23

℄

X Sect. Manzanita Dr.

15+50 Dead Man to Pole 23' Rt.

15+35 Power Pole #4202 24.5 Rt.

15+25 ℄ Produced of a 35' Conc Walk 12.6 Lt

15+25

15+24 ℄ Produced of a 8' Conc Drive 29' Rt

15+03 ℄ Produced of a 35' Conc. Walk 25.6 Rt.

290.60

℄

286.1	285.6	284.3	281.5	281.7	281.5	281.1	280.5	277.3
4.5	5.0	6.3	9.1	8.9	9.1	9.5	10.1	13.3
34	25	18	8		9	25	32	40

282.53

8.07

12.6

286.0	285.0	284.0	282.0	281.1	281.3	281.0	280.5	280.3
4.6	5.6	6.6	8.6	9.5	9.3	9.6	10.1	10.3
35	25	21	12	2		13	25	35

280.26	280.02
10.34	10.58
29	39

279.92	279.82
10.68	10.78
25.6	35

290.60

x sect r Tanzanita O- Contd

16+75	286.1	285.7	285.5	284.9	285.5	285.1	285.9	285.8	286.4
	4.5	4.9	5.1	5.7	5.1	5.5	4.7	4.8	4.2
	35	25	20	9		13	18	25	50
16+50	286.0	285.1	284.1	284.6	284.2	284.5	283.9	282.0	283.1	283.3	284.7
	4.6	5.5	6.5	6.0	6.4	6.1	6.7	8.6	7.5	7.3	5.9
	40	25	16	10	1		5	13	19	25	50
16+25	285.2	284.8	283.5	283.8	283.1	282.5	274.7	273.8	281.8	283.0	
	5.4	5.8	7.1	6.8	7.5	8.1	15.9	16.8	8.8	7.6	
	40	28	22	14	3		1 5	24	40	50	
16+00	284.8	283.9	282.7	283.0	282.5	270.1	269.5	273.1			
	5.8	6.7	7.9	7.6	8.1	20.5	21.1	17.5			
	40	27	21	14		23	32	45			
15+75	284.7	283.9	283.8	282.4	282.0	281.2	276.6	265.7			
	5.9	6.7	6.8	8.2	8.6	9.4	14.0	25.2			
	35	25	23	17		16	25	47			

290.60

290.60

X Sect Manzanita Dr

18+00				
T.P.	3.28	291.63	2.25	288.35
17+50				
17+42	Power Pole # P-2924	16' Rt.		
17+32	℄ Sewer M.H			
17+25.03	E.C.			
17+00				

290.60

℄

287.0	287.0	286.9	286.9	287.0	288.0	287.9	288.1	
4.6	4.6	4.7	4.7	4.6	3.6	3.7	3.5	
35	25	13		10	12	25	35	

291.63

Set Spk. in Power Pole # P2924 16' Rt. 17+42

287.1	287.0	286.9	286.7	286.9	287.0	287.9	287.8	287.9
3.5	3.6	3.7	3.9	3.7	3.6	2.7	2.8	2.7
22	25	14	9		12	13	25	35

286.71

3.89

Rim

286.8	286.7	286.5	286.7	286.9	287.4	288.2
3.8	3.9	4.1	3.9	3.7	3.2	2.4
40	25	14		16	25	45

286.4	286.1	285.8	286.0	287.1
4.2	4.5	4.8	4.6	3.5
40	25	10		25

290.60

X Section Manzanita Dr.

B.M.		3.78	287.85	287.89
18+65	23 W. Line Poplar			
18+64	Power Pole # 2902	17 ± Rt		

29163

T.E. Top F Hydt. Poplar & Hollywood Park FB1628 P.25

282.5	282.7	282.8	282.3	282.6	282.9	282.0	287.5	287.5
5!	4.9	4.8	5.3	2.0	4.7	3.6	4.1	4.1
35	25	13	10		10	14	25	35

29163

X Section Manzanita Dr.
Marlborough to Violet
(See P. 47 to 51 for sketch)

1+26.33			
0+94.89			
0+63.45			
0+32.01			
	(Curve in 7 parts)		
0+00			
BM	585	294.20	288.32

292.8	292.6	292.3	291.3	291.3	290.8	290.2	289.5
1.4 / 25	1.6 / 25	1.9 / 14	2.9 / 11	2.9	3.4 / 13	4.0 / 25	4.7 / 34
291.6	291.1	290.7	289.9	290.0	289.1	289.5	288.7	288.4
2.6 / 35	3.1 / 25	3.4 / 13	4.2 / 10	4.2	5.1 / 15	4.7 / 17	5.5 / 25	5.8 / 35
290.3	289.9	289.3	288.6	288.8	288.0	288.6	288.2	287.5
3.9 / 35	4.2 / 25	4.9 / 10	5.6 / 9	5.4	6.2 / 18	5.6 / 20	6.0 / 25	6.7 / 35
289.4	288.8	288.3	287.6	287.6	287.5	286.7	287.1	286.6
4.8 / 35	5.4 / 25	5.9 / 7	6.6 / 5	6.6	6.7 / 11	7.5 / 25	7.1 / 26	7.6 / 35
288.3	287.9	287.3	287.1	287.1	286.4
5.9 / 25	6.3 / 7	6.9 / 6	7.1	7.1 / 13	7.8 / 25

294.20

Tpk. in Pole # P2924 P. 69 this Book

X Sect. Manzanita Dr

2+92 Anchor Pole 18' Lt.

2+70.96

2+45.79

(Curve in 3 parts)

2+20.62 P.R.C.

1+89.21

TP 7.18 300.41 0.97 293.23

1+57.77

1+42.08 = Opp E'ly corner Arbor Vitae
(End of Est. Grade, Profile sheet #2457
294.20.

295.7	295.3	294.8	294.3	294.6	294.7	294.8	293.2	292.2
4.9	5.1	5.6	6.1	5.8	5.7	5.6	7.2	8.2
35	25	15	13		7	10	25	35

295.2	294.9	294.7	294.3	293.8	294.0	293.8	292.6	291.8
5.2	5.5	5.7	6.1	6.6	6.4	6.6	7.8	8.6
35	25	22	14	12		8	25	35

295.1	295.0	294.6	294.0	293.4	293.5	293.1	292.5	291.9
5.3	5.4	5.8	6.4	7.0	6.9	7.3	7.9	8.5
35	25	19	12	9		13	25	35

294.1	293.6	293.0	292.9	292.4	292.7	291.9	291.2
6.3	6.8	7.4	7.4	8.0	7.7	8.5	9.2
25	14	8		15	18	25	35

300.41

℄ Hub 2+20.62 P.R.C.

292.7	292.8	292.5	291.7	292.0	291.3	290.6
1.5	1.4	1.7	2.5	2.2	2.9	3.6
25	13		12	15	25	35

294.20

X sect. Manzanita Dr.

T.P	3.00	300.67	2.74	297.67
4+36	℄ 7.5' Conc Drive		23.4'	Lt.
4+01	℄ 8' Conc Drive		25'	Rt.
4+00				
3+50				
3+25				
3+28	Power Pole # 4191		18'	Lt.
2+96.13	EC			

300.41

℄

297.71
2.70
23.4

297.8	297.7	297.6	297.4	297.2	296.8	296.7	296.4	296.1	
2.6	2.7	2.8	3.0	3.2	3.6	3.7	4.0	4.4	
35	25	11	9		13	18	25	35	
297.6	297.6	297.3	297.0	296.9	296.1	296.3	295.8	294.7	
2.8	2.8	3.1	3.4	3.5	4.3	4.1	4.6	5.7	
35	25	12	10		13	15	25	35	
296.5	296.5	296.3	296.1	295.8	295.4	294.3	293.6		
3.9	3.9	4.1	4.3	4.6	5.0	6.1	6.8		
35	25	12	10		12	25	35		
295.8	295.6	295.4	295.0	294.9	295.1	294.9	294.3	293.6	292.9
4.6	4.8	5.0	5.4	5.5	5.3	5.5	6.1	6.8	7.5
35	25	13	11	8		9	12	25	35

300.41

X Sect. Manzanita Dr.

6+29.10 ℄ 9' Conc. Drive 25.3 Rt.

Curve in 4 parts.

(Begin Profile #3269)

6+07.00 B.C. Jewel MH.

6+05 Dead Man to Pole 17' Lt.

6+01 ℄ 8' Conc. Drive 16.2 Rt.

5+86 Power Pole # P4161 17 Lt.

5+54 ℄ 15.5' Conc Drive 25.3 Rt.

5+30 ℄ 3' Conc. Walk 17.3' Rt.

5+00 Power Pole # P4175 17' Lt.

4+88 ℄ 2.6' Conc Walk 19' Rt.

4+50

300.67

200.67

74

X Sect Manzanita Dr.

7+55.19 ℄ 7' Conc Drive on Lt

7+27 ℄ Produced of a 3' Concrete Walk 22.4 Lt

7+25.30

T.P. ∠87 298.18 7.36 29331

6+95.41 PRC

6+79 Power Pole # P41X8-17' Rt.

6+73.30

6+64 Dead Man to Pole 18' Rt.

6+51.20

300.67

	294.55	294.45	293.5	293.1		292.6		292.6
	3 6.3	3 7.3	4 1.1	5 1.1		5 1.6		5 1.6
	35	22.8	10			25		35
		Drive						
		294.15	293.76					
		4 0.2	4 1.2					
		35	22.4					
294.3	293.9	293.8	293.5	293.2		292.6		292.5
3 1.9	4 1.4	4 1.1	4 1.2	5 1.0		5 1.6		5 1.7
35	25	21	7			25		37
				298.18				
293.9	293.8	293.6	293.4	293.1		292.8	292.5	292.3
6 1.8	6 1.9	7 1.1	7 1.3	7 1.6		7 1.9	8 1.2	8 1.4
35	25	14	12			15	25	35
294.1	293.9	293.7	293.4	293.5		292.9	292.5	292.2
6 1.6	6 1.8	7 1.0	7 1.3	7 1.2		7 1.8	8 1.2	8 1.5
35	25	18	16			12	25	35
292.3	292.4	292.7	293.6	293.5		294.0	294.1	294.1
8 1.4	8 1.3	8 1.0	7 1.1	7 1.2		6 1.7	6 1.6	6 1.4
35	25	18		17		19	25	35

X Sect. Manzanita Dr.

9+04.66	292.1	291.8	291.6	291.1	291.2	291.1	290.6	291.0	290.6	290.2
	6.1	6.4	6.6	7.1	7.0	7.1	7.6	7.7	7.6	8.0
	35	25	16	14	6		7	9	25	35
8+79.76	292.3		291.5	291.7	291.4	291.7	291.8	291.6	290.9	290.7	290.5
	5.9		6.7	6.5	6.8	6.5	6.4	6.6	7.0	7.2	7.7
	33		25	11	2	1		11	18	25	35
8+44.87			293.0	292.7	292.4		292.2	291.4	291.1	290.6	
			5.2	5.5	5.8		6.0	6.8	7.1	7.5	
			46	25	5			6	25	35	
8+14.98			293.2	292.9	292.9		292.5	292.3	291.3	291.2	
			5.0	5.2	5.2		5.1	5.9	6.8	7.0	
			25	25	20			10	25	35	
7+98 Power Pole ? # 15' Rt											
7+85.08			294.2	293.9	293.2		292.9	292.4	291.8	291.6	291.2
			4.0	4.2	5.0		5.1	5.8	6.4	6.6	7.0
			35	25	14			15	21	25	35

298.18

298.18
1

X Sect Manzanita Dr

Conc Drive on Lt.

10+35.53 Dead man to pole 18.5 Rt.

10+17 Power Pole #R 4098 17.5 Rt.

(Curve in 10 parts.)

10+14.80 B.C.

TP	5.80 ~~5.40~~	295.13 ~~294.73~~	8.85	289.33	

9+94.34 E.C.

9+64.44

9+34.55

298 18

℄

289.80	289.50	289.0	289.2	288.5	288.9	288.3	287.7
5.33	5.43	6.1	5.9	6.6	6.2	6.8	7.4
35	22	9 10		12	14	25	35
	Drive	Drive					

290.6	290.3	289.8	289.8	289.1	289.5	288.6	289.2	288.5	287.7
4.5	4.8	5.3	5.3	6.0	5.6	6.5	5.9	6.6	7.4
35	25	24	12	10		12	14	25	35

295.13
~~294.73~~

℄ Hub 10+14.80 B.C.

290.8	290.1	289.9	289.5	289.7	~~289.9~~	288.8	289.4	289.0	288.5
7.4	8.1	8.3	8.7	8.5	8	9.4	8.8	9.2	9.1
35	25	14	11	6		11	13	25	35

291.2	291.0	290.1	290.3	290.3	289.6	290.0	289.9	289.8
7.0	7.2	8.1	7.9	7.9	8.6	8.2	8.4	8.4
35	25	11	6		11	12	25	35

291.9	291.8	291.0	290.5	290.8	290.8	290.3	290.6	290.7	290.6
6.4	6.4	7.2	7.2	7.4	7.4	7.9	7.6	7.4	7.4
35	25	13	12	5		9	11	25	35

298 18

X sect. Manzanita Dr.

11+39.18 @ 25' Conc. Walk 19.7 Rt.

11+18.45

10+97.72

10+76.99

10+56.26

295.13
~~294.73~~

	289.9	289.7	289.1	288.8	289.1	288.6	288.86	288.97	
	5.2 / 35	5.4 / 25	6.0 / 12	6.3 / 11	6.0	6.5 / 13	6.27 / 19.7 Walk	6.46 / 29 Walk	
	289.2	289.2	289.0	288.8	288.8	288.4	288.6	288.7	
	5.9 / 35	5.9 / 25	6.1 / 13	6.3 / 11	6.13	6.7 / 16	6.05 / 25	6.4 / 32	
	289.3	289.2	289.1	288.9	288.7	288.5	288.7	288.3	288.1
	5.10 / 35	5.9 / 25	6.0 / 14	6.2 / 11	6.4	6.5 / 11	6.4 / 15	6.8 / 25	7.0 / 35
289.5	289.5	289.2	289.1	288.9	288.8	288.2	288.6	288.4	288.1
5.6 / 35	5.6 / 25	5.9 / 23	6.0 / 12	6.2 / 11	6.13	6.9 / 10	6.04 / 11	6.7 / 25	7.0 / 35
289.7	289.6	289.3	289.1	288.8	289.0	288.4	288.6	288.3	287.9
5.4 / 35	5.5 / 25	5.8 / 22	6.0 / 11	6.3 / 10	6.1	6.7 / 12	6.5 / 14	6.8 / 25	7.2 / 35

295.13
~~294.73~~

X Sect Manzanita Dr

Cont'd. in FB 2017 P 2

TP (℄ Hub 12+22.10) 3.52 ~~291.21~~ 291.61

12+22.10 EC 10" Tree 17' Rt.

12+21. Beg Rock & Conc Wall 14' Rt.

12+01.37

11+80.64

11+77 8" Tree 17.5 Rt.

11+69 Power Pole # P4091 17' Lt.

11+62 Dead Man to Pole 17.5' Lt

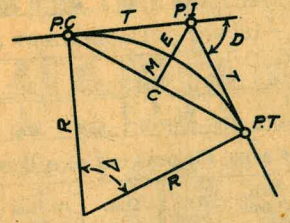
11+59.91

295.17
~~294.73~~

293.0	292.0	292.3	292.4	292.2	291.7	290.7	290.9	291.9	291.8	291.9
2+1	3+1	2+8	2+7	2+9	3+4	4+4	4+2	3+2	3+3	3+2
50	43	35	25	15		12	14	14	25	29
					291.9	291.79				
					3+2	3+24				
					14	25				
					Wall	Wall & Walk				
		292.1	291.9	291.3	291.0	290.8	290.0	290.1	289.7	
		2+0	3+2	3+8	4+1	5+2	5+1	5+0	5+4	
		25	25	11		13	16	25	35	
		291.1	291.1	290.8	289.9	290.1	289.2	289.4	289.3	289.1
		4+0	4+0	4+3	5+2	5+0	5+9	5+7	5+8	6+0
		35	25	13	10		13	15	25	35
		290.1	290.0	289.9	289.2	289.5	288.8	289.0	288.9	288.4
		5+0	5+1	5+2	5+9	5+6	6+3	6+1	6+2	6+7
		35	25	15	9		14	16	25	35

250.13
~~294.73~~

DIETZGEN'S RAILROAD CURVE AND REDUCTION TABLES



CURVE FORMULAS

Radius=R=$\frac{50}{\text{sin. } D/2}$ (1) Degree of Curve=D and sin. $\frac{D}{2}=\frac{50}{R}$ (2)

Tangent=T=R tan $\frac{\Delta}{2}$ (3) Length of Curve=L=$100\frac{\Delta}{D}$ (4)

Middle ordinate=M=R(1—cos. $\frac{\Delta}{2}$) (5)=R vers $\frac{\Delta}{2}$ (6)

External=E=T tan $\frac{\Delta}{4}$ (7)=R ÷ cos. $\frac{\Delta}{2}$—R (8)=R exsec $\frac{\Delta}{2}$ (9)

Long Chord=C=2 R sin. $\frac{\Delta}{2}$ (10) Δ=Central Angle

EXPLANATION AND USE OF TABLES

Stations.—Given P. I.=Sta. 161+60.35 to find Sta. of P. C. and P. T. Δ=62° 10′ D=8° 20′. From Table IV for 1° curve T=3454.1 and ÷8⅓=414.49 ft. From Table V correction=.36 or T=414.85 ft. P. C.=Sta. P.I.—T=157 +45.50. Also from (4) L=746.00 and P. T.=Sta. P. C.+L=164+91.50.

Offsets.—Tangent offsets vary (approximately) directly with D and with square of the distance. Thus tangent offset for Sta. 158 on above curve is 2.16 ft. found as follows. From Table III tangent offset for 100 ft.=7.27 ft. Distance=158—Sta. P. C.=54.50, hence offset=7.27 $(54.50 \div 100)^2$=2.16 ft. Also square of any distance divided by twice the radius equals (approximately) the distance from tangent to curve. Thus $(54.50)^2 \div (2 \times 688.26)$=2.16 ft.

Deflections.—Deflection angle=½ D for 100 ft., ¼ D for 50 ft., etc. For c ft.=(in minutes) .3 x C x D° or=defl. for 1 ft. from Table III x C. For Sta. 158 of above curve=.3 x 54.5 x 8⅓=136.2′ or 2° 16.2′, or=2.50 x 54.5=136.2′ from Table III. For Sta. 159 deflection angle=2° 16.2′ +8° 20′ ÷2=6° 26.2′, etc.

Externals.—May be found in similar manner to tangents. Thus E for curve above is 115.37. For from Table IV for 1° curve E=960.6 for 8° 20′=960.6 ÷8⅓=115.27 and from Table V correction=.10 or E=115.37 ft. Or suppose Δ=32° and E is measured and found to be 42 ft. What is D? From Table IV E=230.9 and ÷42=5.5 or D=5° 30′.

Manzanita Drive
Notes reduced by
Paul Tornheim
May 10, 1949

TABLE VIII.—NATURAL TRIGONOMETRICAL FUNCTIONS.

Angle	Sine.	Tan.	Cotg.	Cosin.		Angle	Sine.	Tan.	Cotg.	Cosin.	
° ′						° ′					
0	0	0	00	1	90	8	.1392	.1405	7.115	.99027	82
10	.0029	.0029	343.8	1	50	10	.1421	.1435	6.968	.98986	50
20	.0058	.0058	171.9	.99998	40	20	.1449	.1465	6.827	.98944	40
30	.0087	.0087	114.6	.99996	30	30	.1478	.1495	6.691	.98902	30
40	.0116	.0116	85.94	.99993	20	40	.1507	.1524	6.561	.98858	20
50	.0145	.0145	68.75	.99989	10	50	.1536	.1554	6.435	.98814	10
1	.0175	.0175	57.29	.99985	89	9	.1564	.1584	6.314	.98769	81
10	.0204	.0204	49.10	.99979	50	10	.1593	.1614	6.197	.98723	50
20	.0233	.0233	42.96	.99973	40	20	.1622	.1644	6.084	.98676	40
30	.0262	.0262	38.19	.99966	30	30	.1650	.1673	5.976	.98629	30
40	.0291	.0291	34.37	.99958	20	40	.1679	.1703	5.871	.98580	20
50	.0320	.0320	31.24	.99949	10	50	.1708	.1733	5.769	.98531	10
2	.0349	.0349	28.64	.99939	88	10	.1736	.1763	5.671	.98481	80
10	.0378	.0378	26.43	.99929	50	10	.1765	.1793	5.576	.98430	50
20	.0407	.0407	24.54	.99917	40	20	.1794	.1823	5.485	.98378	40
30	.0436	.0437	22.90	.99905	30	30	.1822	.1853	5.396	.98325	30
40	.0465	.0466	21.47	.99892	20	40	.1851	.1883	5.309	.98272	20
50	.0494	.0495	20.21	.99878	10	50	.1880	.1914	5.226	.98218	10
3	.0523	.0524	19.08	.99863	87	11	.1908	.1944	5.145	.98163	79
10	.0552	.0553	18.07	.99847	50	10	.1937	.1974	5.066	.98107	50
20	.0581	.0582	17.17	.99831	40	20	.1965	.2004	4.989	.98050	40
30	.0610	.0612	16.35	.99813	30	30	.1994	.2035	4.915	.97992	30
40	.0640	.0641	15.60	.99795	20	40	.2022	.2065	4.843	.97934	20
50	.0669	.0670	14.92	.99776	10	50	.2051	.2095	4.773	.97875	10
4	.0698	.0699	14.30	.99756	86	12	.2079	.2126	4.705	.97815	78
10	.0727	.0729	13.73	.99736	50	10	.2108	.2156	4.638	.97754	50
20	.0756	.0758	13.20	.99714	40	20	.2136	.2186	4.574	.97692	40
30	.0785	.0787	12.71	.99692	30	30	.2164	.2217	4.511	.97630	30
40	.0814	.0816	12.25	.99668	20	40	.2193	.2247	4.449	.97566	20
50	.0843	.0846	11.83	.99644	10	50	.2221	.2278	4.390	.97502	10
5	.0872	.0875	11.43	.99619	85	13	.2250	.2309	4.331	.97437	77
10	.0901	.0904	11.06	.99594	50	10	.2278	.2339	4.275	.97371	50
20	.0929	.0934	10.71	.99567	40	20	.2306	.2370	4.219	.97304	40
30	.0958	.0963	10.39	.99540	30	30	.2334	.2401	4.165	.97237	30
40	.0987	.0992	10.08	.99511	20	40	.2363	.2432	4.113	.97169	20
50	.1016	.1022	9.788	.99482	10	50	.2391	.2462	4.061	.97100	10
6	.1045	.1051	9.514	.99452	84	14	.2419	.2493	4.011	.97030	76
10	.1074	.1080	9.255	.99421	50	10	.2447	.2524	3.962	.96959	50
20	.1103	.1110	9.010	.99390	40	20	.2476	.2555	3.914	.96887	40
30	.1132	.1139	8.777	.99357	30	30	.2504	.2586	3.867	.96815	30
40	.1161	.1169	8.556	.99324	20	40	.2532	.2617	3.821	.96742	20
50	.1190	.1198	8.345	.99290	10	50	.2560	.2648	3.776	.96667	10
7	.1219	.1228	8.144	.99255	83	15	.2588	.2679	3.732	.96593	75
10	.1248	.1257	7.953	.99219	50	10	.2616	.2711	3.689	.96517	50
20	.1276	.1287	7.770	.99182	40	20	.2644	.2742	8.647	.96440	40
30	.1305	.1317	7.596	.99144	30	30	.2672	.2773	3.606	.96363	30
40	.1334	.1346	7.429	.99106	20	40	.2700	.2805	3.566	.96285	20
50	.1363	.1376	7.269	.99067	10	50	.2728	.2836	3.526	.96206	10
					82						74
	Cosin.	Cotg.	Tan.	Sine.	Angle		Cosin.	Cotg.	Tan.	Sine.	Angle

TABLE VIII.—NATURAL TRIGONOMETRICAL FUNCTIONS.

Angle	Sine.	Tan.	Cotg.	Cosin.		Angle	Sine.	Tan.	Cotg.	Cosin.	
° ′						° ′					
16	.2756	.2867	3.487	.96126	74	24	.4067	.4452	2.246	.91355	66
10	.2784	.2899	3.450	.96046	50	10	.4094	.4487	2.229	.91236	50
20	.2812	.2931	3.412	.95964	40	20	.4120	.4522	2.211	.91116	40
30	.2840	.2962	3.376	.95882	30	30	.4147	.4557	2.194	.90996	30
40	.2868	.2994	3.340	.95799	20	40	.4173	.4592	2.177	.90875	20
50	.2896	.3026	3.305	.95715	10	50	.4200	.4628	2.161	.90753	10
17	.2924	.3057	3.271	.95615	73	25	.4226	.4663	2.145	.90631	65
10	.2952	.3089	3.237	.95545	50	10	.4253	.4699	2.128	.90507	50
20	.2979	.3121	3.204	.95459	40	20	.4279	.4734	2.112	.90383	40
30	.3007	.3153	3.172	.95372	30	30	.4305	.4770	2.097	.90259	30
40	.3035	.3185	3.140	.95284	20	40	.4331	.4806	2.081	.90133	20
50	.3062	.3217	3.108	.95195	10	50	.4358	.4841	2.066	.90007	10
18	.3090	.3249	3.078	.95106	72	26	.4384	.4877	2.050	.89879	64
10	.3118	.3281	3.048	.95015	50	10	.4410	.4913	2.035	.89752	50
20	.3145	.3314	3.018	.94924	40	20	.4436	.4950	2.020	.89623	40
30	.3173	.3346	2.989	.94832	30	30	.4462	.4986	2.006	.89493	30
40	.3201	.3378	2.960	.94740	20	40	.4488	.5022	1.991	.89363	20
50	.3228	.3411	2.932	.94646	10	50	.4514	.5059	1.977	.89232	10
19	.3256	.3443	2.904	.94552	71	27	.4540	.5095	1.963	.89101	63
10	.3283	.3476	2.877	.94457	50	10	.4566	.5132	1.949	.88968	50
20	.3311	.3508	2.850	.94361	40	20	.4592	.5169	1.935	.88835	40
30	.3338	.3541	2.824	.94264	30	30	.4617	.5206	1.921	.88701	30
40	.3365	.3574	2.798	.94167	20	40	.4643	.5243	1.907	.88566	20
50	.3393	.3607	2.773	.94068	10	50	.4669	.5280	1.894	.88431	10
20	.3420	.3640	2.747	.93969	70	28	.4695	.5317	1.881	.88295	62
10	.3448	.3673	2.723	.93869	50	10	.4720	.5354	1.868	.88158	50
20	.3475	.3706	2.699	.93769	40	20	.4746	.5392	1.855	.88020	40
30	.3502	.3739	2.675	.93667	30	30	.4772	.5430	1.842	.87882	30
40	.3529	.3772	2.651	.93565	20	40	.4797	.5467	1.829	.87743	20
50	.3557	.3805	2.628	.93462	10	50	.4823	.5505	1.816	.87603	10
21	.3584	.3839	2.605	.93358	69	29	.4848	.5543	1.804	.87462	61
10	.3611	.3872	2.583	.93253	50	10	.4874	.5581	1.792	.87321	50
20	.3638	.3906	2.560	.93148	40	20	.4899	.5619	1.780	.87178	40
30	.3665	.3939	2.539	.93042	30	30	.4924	.5658	1.767	.87036	30
40	.3692	.3973	2.517	.92935	20	40	.4950	.5696	1.756	.86892	20
50	.3719	.4006	2.496	.92827	10	50	.4975	.5735	1.744	.86748	10
22	.3746	.4040	2.475	.92718	68	30	.5000	.5774	1.732	.86603	60
10	.3773	.4074	2.455	.92609	50	10	.5025	.5812	1.720	.86457	50
20	.3800	.4108	2.434	.92499	40	20	.5050	.5851	1.709	.86310	40
30	.3827	.4142	2.414	.92388	30	30	.5075	.5890	1.698	.86163	30
40	.3854	.4176	2.394	.92276	20	40	.5100	.5930	1.686	.86015	20
50	.3881	.4210	2.375	.92164	10	50	.5125	.5969	1.675	.85866	10
23	.3907	.4245	2.356	.92050	67	31	.5150	.6009	1.664	.85717	59
10	.3934	.4279	2.337	.91936	50	10	.5175	.6048	1.653	.85567	50
20	.3961	.4314	2.318	.91822	40	20	.5200	.6088	1.643	.85416	40
30	.3987	.4348	2.300	.91706	30	30	.5225	.6128	1.632	.85264	30
40	.4014	.4383	2.282	.91590	20	40	.5250	.6168	1.621	.85112	20
50	.4041	.4417	2.264	.91472	10	50	.5275	.6208	1.611	.84959	10
					66						58
	Cosin.	Cotg.	Tan.	Sine.	Angle		Cosin.	Cotg.	Tan.	Sine.	Angle

NEBP 2350 Dejbert Kearney

DISTANCES FROM CENTER OF ROADWAY FOR CROSS-SECTIONING.

Roadway 16 feet wide. Side Slopes 1 on 1½

For Single Track Embankment.

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

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

MADE IN U.S.A.