1856

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.

1856

CITY ENGINEER'S OFFICE

INDEXED
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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.

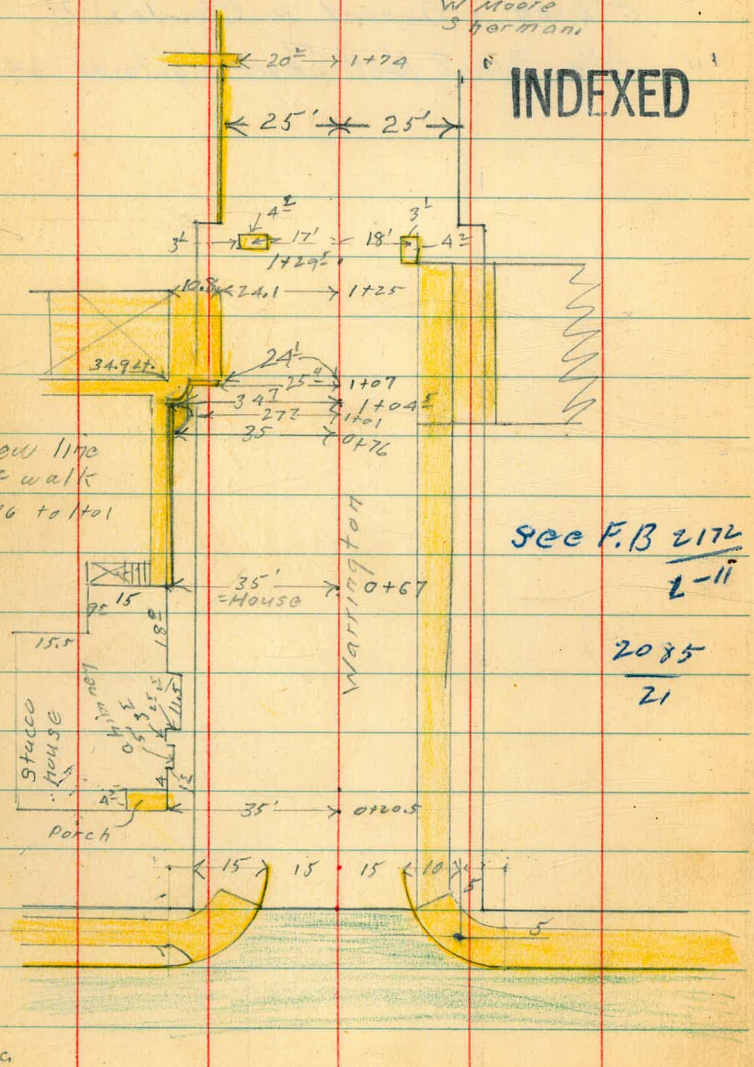
X-See Warrington	Tennyson to Voltaire Worden to Poinsettia	2-20
" Udall		
" Albion - Dupont to Charles.		21-28
" Alley Blk 8 North Shore Highlands		64

X-Sec. Warrington { Tennyson to Vallejo
" Udall - Worden to Poinsettia

5-24-48
W.O. 25001

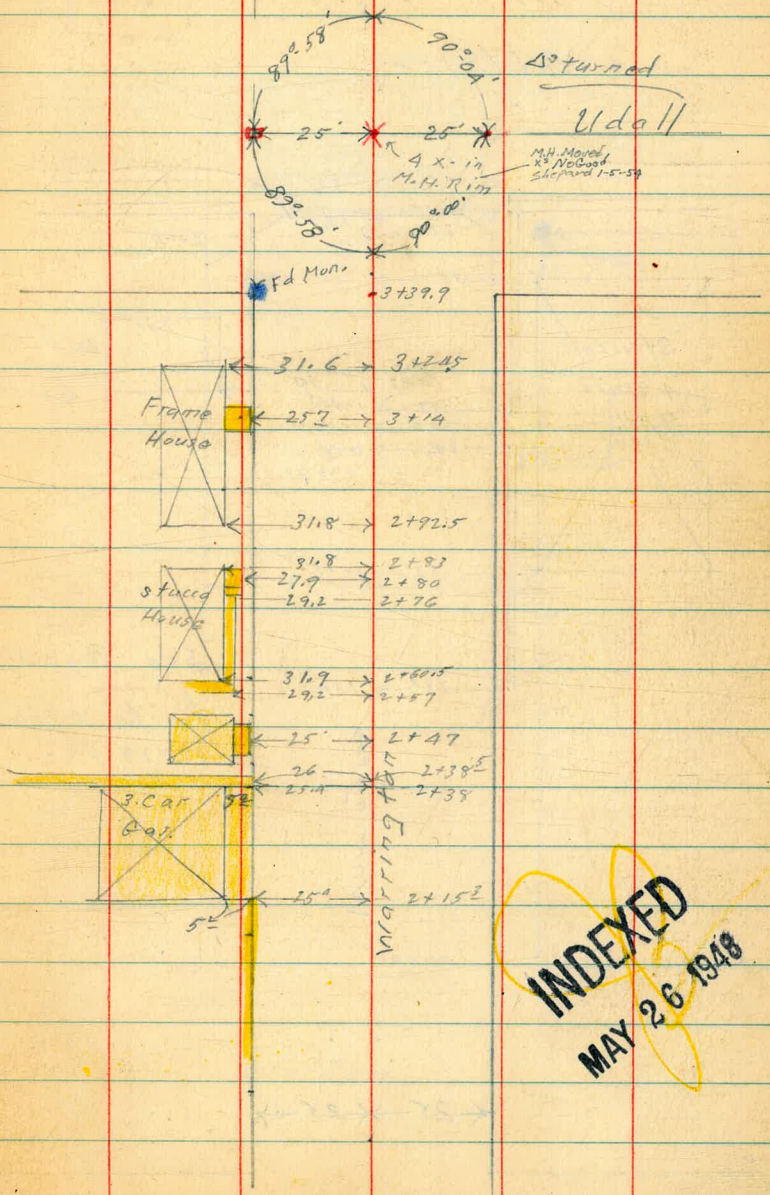
Sommermeyer
McCoy
W Moore
Sherman

INDEXED



See F.B 2172
2-11

2085
21

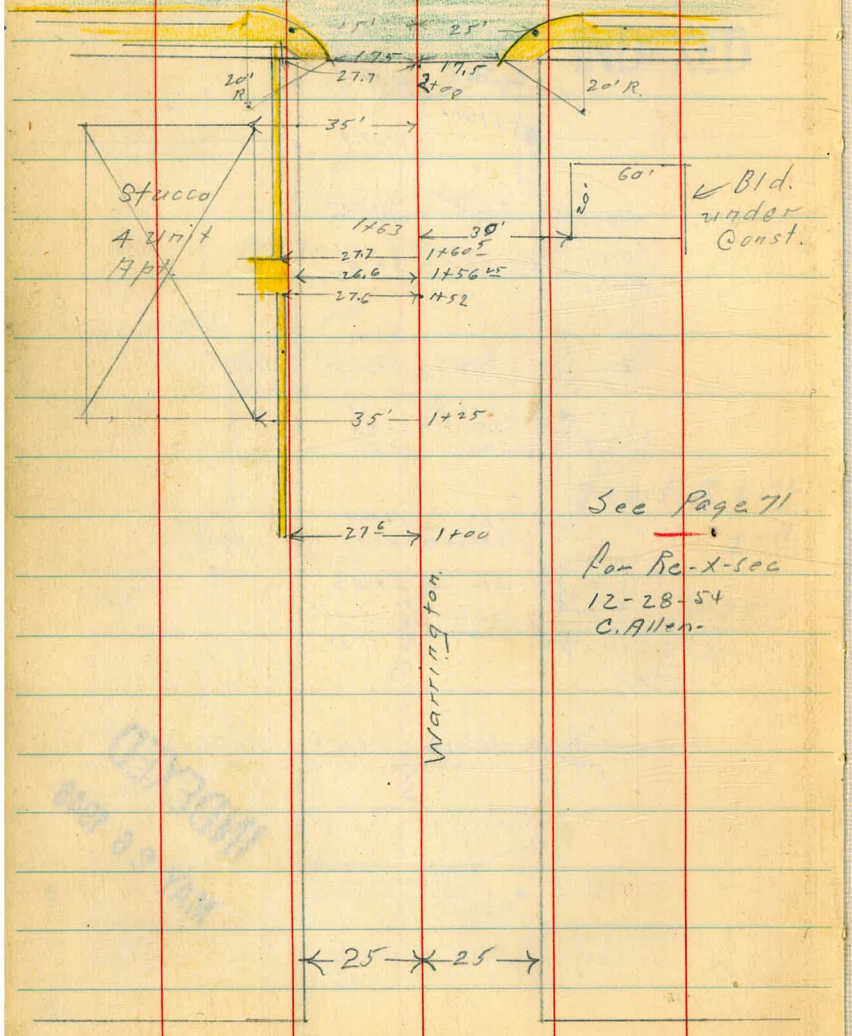


INDEXED
MAY 26 1948

Warrington

INDEXED

Voltaire



See Page 71

for Re-X-sec

12-28-54

C. Allen-

Udall St.

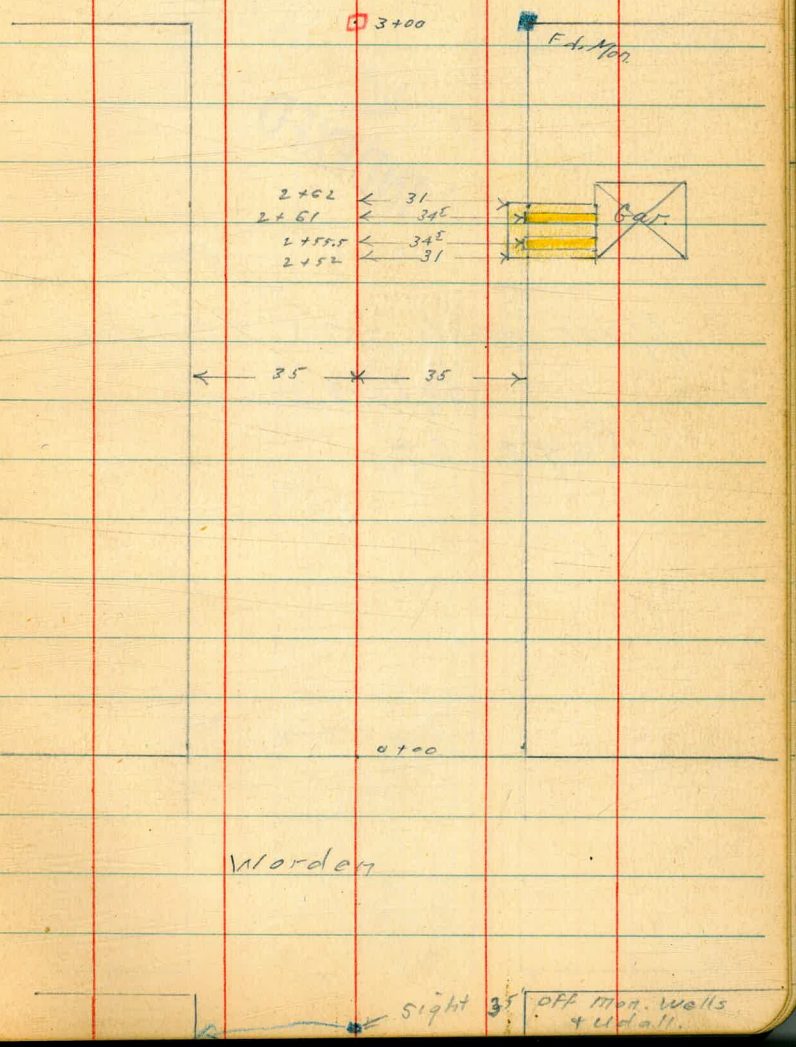
0+00

3

Levels

Page 16

Warrington

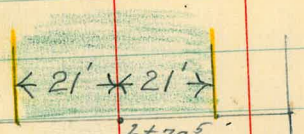


Sight 35

off mon. wells 4 Udall.

Udall St.

Levels - P.1C



New levels this section

5-18-53

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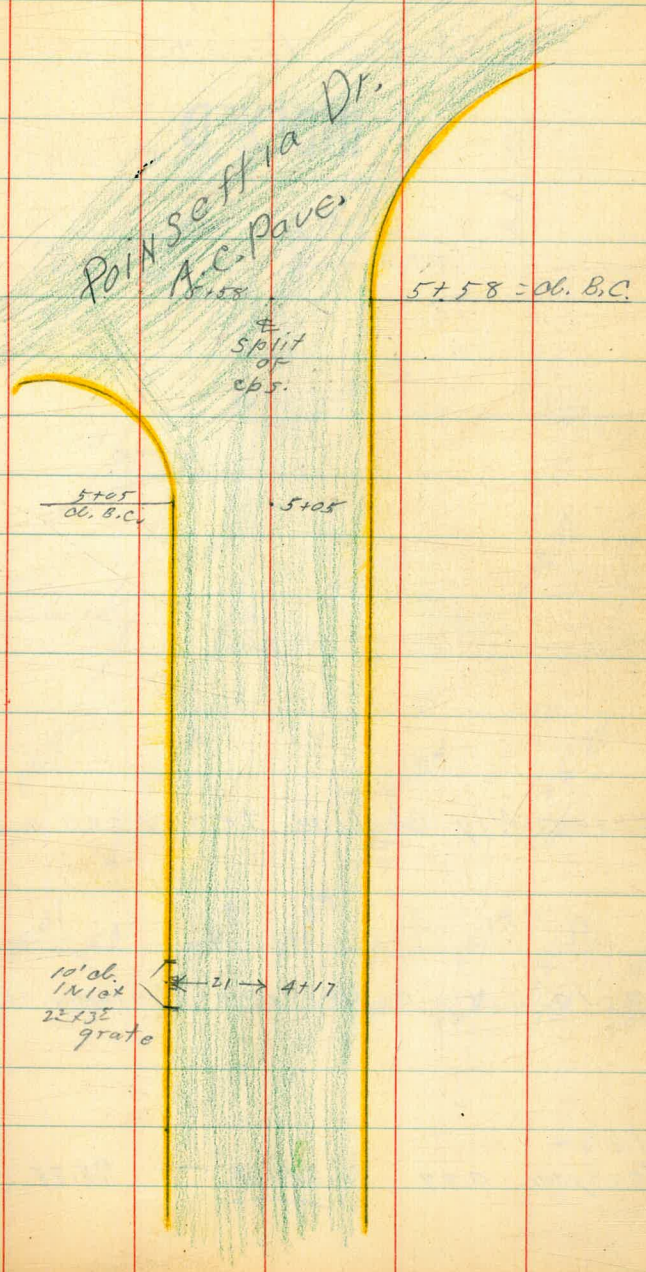
Warrington

4



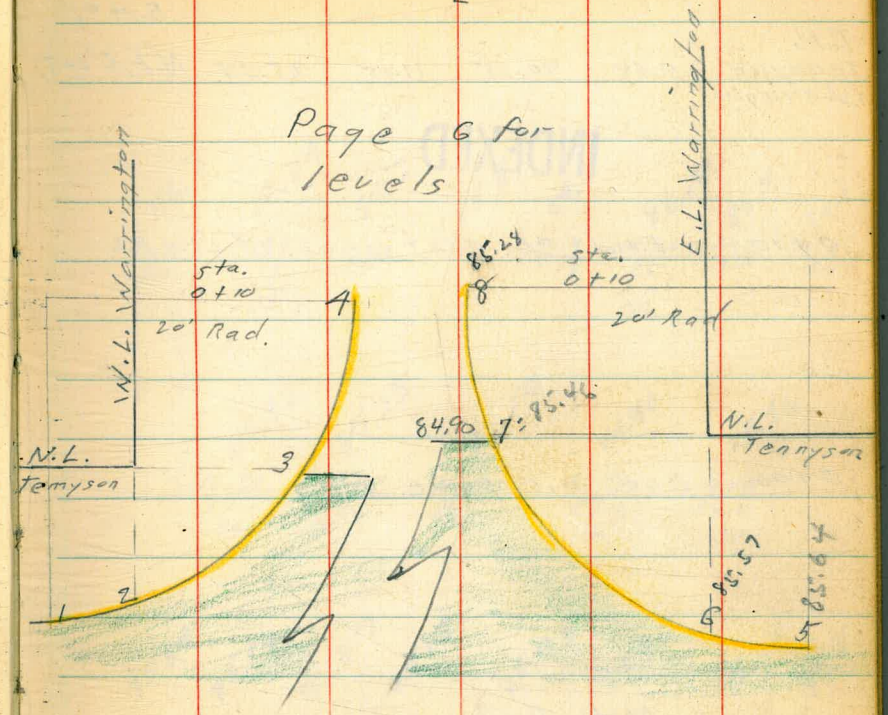
Levels Warrington

Sketch Pg. 2+3

INDEXED

℄

Page 6 for levels



0-10 = N'ly Ch. line Tennyson Tep. Ch.

0-10' = N'ly Gutter line Tennyson

					86.52	86.04	85.64	86.38		
					10.20/100	10.68/35 Ec.	11.08/35 Ec.	10.34/100		
	85.95	85.41	85.47	85.63	85.59	85.41	85.19	85.15	85.47	
	11.77/100	11.31/35	11.30/30	11.09/15	11.13	11.31/15	11.58/30	11.57/35	10.90/100	

Alicia + Tennyson 0.97 96.72 — 95.75 N.W. B.P. ≈ (W'ly. B.P.) ○ 96.72

WARRINGTON

B.M. #1

T.P. Tennyson & Warrington	4.68	90.25	11.15	85.57	N.E. 5' Lt. & T.

0+10 = End Cl. Returns. 15' Lt. & Rt.

0+00 = End A.C. pave.

N.E. Return.

Curb Rets. Tennyson & Warrington

See FB 2172 2-11

N.W. Return.

86.3 / 10.4 / 30 Cl.

85.84 / 10.88 / 15 / End Cl.

85.2 / 11.5 / 15

85.5 / 11.2

84.8 / 11.9 / 15

86.28 / 10.44 / 15 / End Cl.

86.5 / 10.2 / 20

86.1 / 10.6 / 30

85.92 / 10.80 / 17.6 / Cl.

85.25 / 11.47 / 17.6 / C

85.30 / 11.42 / Pav.

84.90 / 11.82 / 17.6 / C.

85.46 / 11.26 / 17.6 / Cl.

85.69 / 11.08 / 5 / Cl. B.C.

85.16 / 11.56 / 5 / C

85.51 / 11.15 / 6 / Cl

85.13 / 11.59 / 6 / C

85.46 / 11.26 / 7 / Cl

84.90 / 11.82 / 7 / C. End pav.

85.28 / 11.44 / 8 / Cl

84.8 / 11.9 / 8 / Dirt

86.05 / 10.67 / 1 / Cl B.C.

85.41 / 11.31 / 1 / C

86.03 / 10.69 / 2 / Cl

85.42 / 11.30 / 2 / C

85.92 / 10.80 / 3 / Cl

85.25 / 11.47 / 3 / C End pav.

85.84 / 10.88 / 4 / Cl

85.2 / 11.5 / 4 / Dirt

WARRINGTON

INDEXED

7

1+04.5	34.7 Lt. = B.C. 4" wall (2.5 Rad.) (see P. 2)			
T.P. BM #1 P.6	4.46	90.03	4.68	85.57
0+67	Cont.			
	also = End House 35' Lt. Conc. walk. (Runs N. + S.)			
0+67	34.7 Lt. = Start 4" wall (N. + S.) & 2' wide			
	36' Lt. = ℄ porch (4' wide Conc.)			
0+23	33.5 Lt. = ℄ 4' Conc. steps to porch			
0+20.5	35' Lt. = S.E. Cor. Stucco House.			
		90.25		

85.80 — 6.23 / 3.5 off walk

84.26 — 5.77 / 34.7 Top wall

83.14 — 6.6 / 34.7 Base wall

90.03

87.2 — 3.1 / 2.1 / 60 Grd

87.2 — 3.1 / 35 House Floor level.

84.66 — 5.59 / 35.0 walk

84.91 — 5.34 / 34.7 Top wall

84.4 — 5.9 / 34.7 Base wall.

84.6 — 5.7 / 34.7 Grd.

84.1 — 5.6 / 30

85.0 — 5.3 / 15

85.4 — 4.9

85.1 — 5.2 / 15

85.9 — 4.4 / 18

85.9 — 4.4 / 30

87.18 — 3.07 / 36 on porch

86.17 — 4.08 / 33.5 Bottom Step

90.25

WARRINGTON

INDEXED

1+25 Cont.

34½ Lt. = End double Gar.

1+25 24' Lt. = End (N.E. Cor.) Conc. Dr.

1+07' Cont.

34.9 Lt. = start double Gar.

1+07' 24' Lt. = start conc. drive

1+07 Cont. 35½ Lt. = ℄ End of walk

See Page 2

(Page 2)

1+07 32½ Lt. = E.C. Wall, - 33 Lt. = E.C. walk

25½ Lt. = ℄ End E+W. wall

90.03

℄

83.74 — 6.29 / 34.9 Drive + Gar. Floor.

83.61 — 6.42 / 27 Drive + Grd.

83.58 — 6.45 / 25.4 on Drive

83.36 — 6.67 / 24.1 Drive

84.8 — 5.2 / 24.1 Grd.

84.9 — 5.1 / 22

85.1 — 4.9 / 15

85.2 — 4.8

85.1 — 4.9 / 15

84.3 — 5.7 / 20

84.8 — 5.2 / 30

40

83.80 — 6.23 / 34.9 Drive + Gar. Floor.

83.65 — 6.38 / 26.5 Dirt + Conc Dr.

83.63 — 6.40 / 25.4 Drive

83.93 — 6.60 / 24.1 SE. Cor Drive

84.6 — 5.4 / 24.1 Grd

85.0 — 5.0 / 22

84.4 — 5.6 / 15

85.2 — 4.8

85.1 — 4.9 / 15

84.4 — 5.6 / 20

84.8 — 5.2 / 30

83.80 — 6.23 / 33 on walk

83.4 — 6.6 / 32.4 Base wall

84.31 — 5.72 / 32.4 Top wall E.C.

84.19 — 5.84 / 25.4 Top wall

84.2 — 5.8 / 25.4 Grd

83.6 — 6.4 / 25.4 Base wall

90.03

WARRINGTON

INDEXED

Conc. drive to triple Gar.

2+15.3 25.9 Lt. = End 7" Conc. wall. start

thru conc. wall.

1+74 20.3 Lt. = ℄ 3' wide conc. walk

1+41 24.1 Lt. = start 7" wide conc. wall

1+40 Lt = Subdivision line

1+27

90.03

℄

84.97 84.51

5.06 / 30.6 Gar. Floor

5.52 / 25.4 Drive

88.19 83.9 85.0 84.9 85.1 84.8 86.0 86.7

1.84 / 25.4 Top wall

6.1 / 25.9 Base wall

5.0 / 25 Grd

5.1 / 15

4.9

5.2 / 18

4.0 / 25

3.3 / 35

84.99 84.59 85.1 85.1 84.8 85.2 85.4

5.04 / 24.8 walk

5.44 / 20.2 ℄ walk

4.9 / 20.2 Grd.

4.9

5.2 / 20

4.8 / 25

4.6 / 40

line of wall & Grd. level

87.81 83.8 84.6

2.22 / 24.1 Top wall

6.2 / 24.1 Base wall

5.2 / 24.1 Grd

84.6 84.1 84.8 85.1 85.0 84.9 85.2

5.4 / 30

5.3 / 25

5.2 / 15

4.9

5.0 / 15

5.6 / 20

4.8 / 30

83.4 84.8 85.1 85.2 85.1 84.3 84.8 85.2

6.6 / 100

5.2 / 30

4.9 / 15

4.8

4.9 / 15

5.7 / 20

5.2 / 30

4.8 / 40

90.03

Warrington

INDEXED

℄

2+60.5 31.7 Lt. = S.E. Cor. House.

Conc. walk.

2+57 29.2 Lt. = S.E. Cor. 28' wide N. + Sly.

2+53 = End single Gar.

2+47 25' Lt. = ℄ 8' wide Conc. drive to Gar.

2+41 29' Lt. = start single Gar. Conc. floor.

2+38.5 26' Lt. = ℄ 1' wide E. + W. Conc. wall

30.5 Lt. = End Gar.

2+38 25.4 Lt. = End drive to triple Gar.

90.03

83.9 84.3 85.13 85.1 85.6 86.8 87.3 87.9

6.6/95 5.7/40 Grd. 4.91/29.2 + walk Grd. 4.3 4.4/15 3.2/20 2.7/25 2.1/40

85.38

4.65/28 Gar. Floor

85.37 85.23

4.66/28 Gar. Floor 4.80/25

85.37 85.1 84.9 85.4 85.1 86.5 86.9 87.4

4.66/28 Gar. Floor 4.9/25 5.1/20 4.6 4.9/15 3.5/20 3.1/25 2.6/40

85.38 83.9 84.6

4.65/26 Top wall 6.1/26 Bare wall 5.4/26 Grd.

85.16 84.61 84.6 84.9 85.3 85.1 86.5 87.0

4.87/30.6 Gar. floor 5.42/25.4 End Dr. 5.4/25 Grd 5.1/23 Grd. 4.7 4.9/15 3.5/20 3.0/25

90.03

T.P.	4.30	93.20	1.13	88.90	
S.W. Conc. Mon. Udall + Warrington		S.S.	2.38	87.65	B.M. #2

3+39 Q = S. line Udall

3+24 E 31 E Lt. = N.E. Cor. Frame house

27 Z Lt. = ℄ 6' wide porch.

3+14 25 J Lt. = ℄ 6' wide Conc. steps

2+92 E 31 E Lt. = S.E. Cor. Frame house.

2+83 31 E Lt. = N.E. Cor. house.

2+80 27 J Lt. = ℄ 6' wide porch.

2 steps to porch

2+76 29 Z Lt. = End walk + bottom of

90.03

℄

88.0 88.1 88.8 89.2

2.0/25 1.3 1.2/10 0.8/25

88.17 87.03 86.4 86.82

1.86/27.7 Porch; 3.00/25.7 Top of Bottom step; 3.6/25.7 Bottom of steps; 3.21/25 Grd

88.3 86.0 85.9 86.1 86.9 86.1 81.7 81.8

1.7/31.8 House Floor; 4.0/31.8 Grd.; 4.1/25; 3.3; 3.1/10; 3.3/15; 2.3/20; 2.2/25

86.18 86.61

3.2/31.9 House Floor; 3.42/27.9

86.38

4.65/29.2 walk

90.03

Warrington

INDEXED

1+05

1+00 Cont.

1+00

0+50

=0+00

4+09 ℄ Nly. line Udall

3+74 = ℄ Udall

93.20

℄

89.7 3.5/25 | 87.7 5.7/14 | 87.9 5.5 | 87.7 5.7/15 | 88.9 4.3/25 | 90.0 3.2/90

90.1 3.1/75 | 90.1 3.1/90

90.06 3.14/27.6 S.E. cor 2' wide walk | 89.8 3.4/27.5 | 89.9 3.3/25 | 87.6 5.6/14 | 87.9 5.3 | 87.7 5.5/15 | 89.1 3.5/25 | 91.5 +1.3/27

90.5 2.7/50 | 90.2 3.0/25 | 88.9 4.3/13 | 88.8 4.4 | 88.6 4.6/14 | 90.0 3.2/24 | 91.2 +1.0/25 | 92.3 0.9/75

90.1 2.5/25 | 88.6 4.6/20 | 89.1 4.1 | 89.0 4.2/14 | 89.3 3.9/16 | 89.4 3.8/22 | 92.4 0.8/25

89.3 3.9/25 | 90.0 3.2 | 90.1 3.1/25

93.20

Warrington

T.P.	5.45	91.92	6.73	86.47
1+99 1/2	17.5 Lt + Rt. = Start Curb.			
1+77 1/2	= Start A.C. Paving			

INDEXED

1+98

Bldg 20 x 60

1+63 30' Rt. = S.W. Cor. Bldg. under Const.

1+60.5 27.7 Lt. = S.E. Cor. 2' wide N. + S. Conc. Walk

1+56.25 26.6 Lt. = ℄ 8' wide steps + porch

26.5 Lt. = S.E. Cor. Porch + steps.

1+52 27.6 Lt. = N.E. Cor. 2' wide N. + S. Conc. walk

93.20

℄

86.45 85.87 85.51 84.81 85.41

6.75 / 17.5 End of. — 7.33 / 17.5 Q — 7.69 — 8.33 / 17.5 Q — 7.79 / 17.5 End of.

86.1 85.9 85.5 85.1 87.0

6.5 / 25 — 7.3 / 16 — 7.7 — 8.1 / 15 — 6.2 / 25

88.5 89.27

4.7 / 30 Grd — 3.93 / 30 top Foundation Forms

87.80 87.5

5.40 / 27.6 walk. — 5.7 / 27.6 Grd

90.2 87.8

3.0 / 26.6 top porch — 5.4 / 26.5 Grd.

88.39 88.00 88.0 86.3 86.2 86.3 88.3 88.6

4.81 / 27.6 walk + Bottom of steps — 5.2 / 27 — 5.2 / 25 — 6.9 / 14 — 7.0 — 6.9 / 14 — 4.9 / 25 — 4.6 / 50

Warrington

INDEXED

S. E. cl. Rot.

S. W. cl. Rot.

Returns - Voltaire + Warrington

3+00 = Sly. line Voltaire

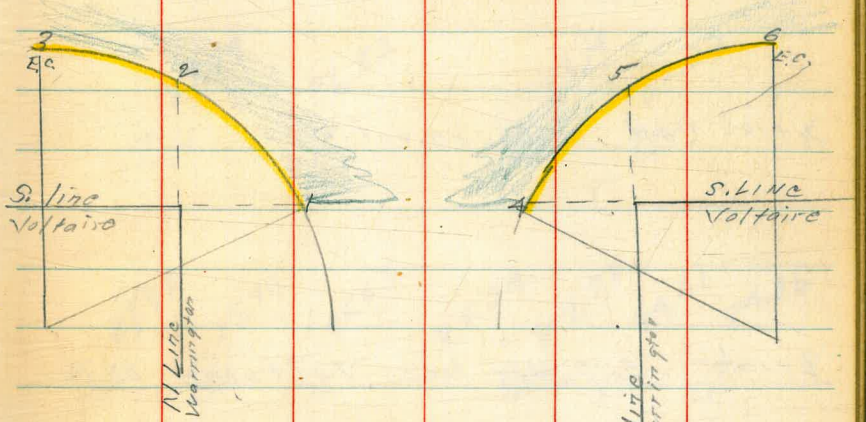
91.92

89.87 85.39 84.41 85.04 84.06 84.68

7.05 / 4 — G
6.53 / 4 — cl
7.51 / 5 — G
6.88 / 5 — cl
7.86 / 6 — G
7.24 / 6 — cl, E.C.

88.87 86.44 85.82 86.42 85.99 86.67

6.05 / 1 — G
5.48 / 1 — cl
6.10 / 2 — G
5.50 / 2 — cl
5.93 / 3 — G
5.25 / 3 — cl, E.C.



86.64 86.49 85.87 85.71 85.52 85.28 89.87 85.39 85.42

5.24 / 27.7 — E. Edge Sidewalk
5.48 / 17.7 — cl.
6.05 / 17.7 — G
6.15 / 75
6.40
6.64 / 75
7.05 / 17.6 — G
6.53 / 17.6 — cl
6.5 / 25

91.92

Warrington

INDEXED

S.E.B.P. Poinsettia (old Villa Dr) + Voltaire		2.00	96.38	(96.35)
T.P.	8.35	78.38	1.49	90.03
T.P.	9.49	91.52	9.89	82.03
3+10 Cont.	pavement			
3+10	= S. Gutter line Voltaire on Pav.			
3+10	= S. ch. line Voltaire on ch.			

91.92

87.19 86.83 83.14 82.22

4.13/100 5.09/65 8.78/65 9.70/100

85.95 85.79 85.55 85.24 84.78 84.91 84.06

5.97/35 6.13/25 6.37/15 6.68 7.14/15 7.57/25 7.86/35

88.50 87.54 86.67 84.69 83.81 82.88

3.42/100 4.38/65 5.25/35 C.L.E.C. 7.23/35 8.11/65 9.04/100 C.L.E.C.

91.92

Udall - Worden - East.

Sketch Ps. 3+4

T.P.	10.31	92.79	0.85	82.48
1+00				

INDEXED

0+50				
0+15				
0+00 = Ely. line Worden				
0-25 = ℄ Worden.				
0-50 = W. Line Worden				
T.P.	5.22	83.33	11.92	78.11
S.W. Mon. Udall + Warrington Page 11	2.38	90.03	—	87.65

℄

16

87.7	83.3	82.8	80.8	79.5			
+4.4	0.0	1.5	2.5	3.8			
55	35		35	90			
88.4	81.6	79.9	78.8	75.6	74.6	79.8	
+5.1	1.7	3.4	4.5	8.7	8.7	3.5	
70	35		11	35	72	90	
85.3	82.9	79.9	77.8	70.8	71.0	75.1	79.9
+2.0	0.4	3.4	5.5	12.5	12.3	7.6	3.4
60	35	10		30	35	75	95
79.6	79.2	79.3	77.4	71.4	70.6	80.1	81.1
3.7	4.1	4.0	5.9	11.9	12.7	3.2	3.2
60	35	10		23	35	50	75
79.4	78.1	77.6	75.4	69.9	69.1	72.1	79.8	80.0
3.9	4.6	5.7	7.9	13.4	14.2	10.6	3.5	3.3
50	35	10		16	29	35	48	75
79.5	79.1	77.8	76.5	69.0	67.9	76.2	79.5	
3.8	4.2	5.5	11.8	14.3	15.4	5.1	3.8	
75	35	15		10	35	52	75	

83.33

2/DALL

INDEXED

2+55E 34E Rt. = ℄ 2' wide Conc. Ribbon

2+52 Conn.

in front of garage.

2+52 31' Rt. = Rough grout wall + slab

2+50

2+00

1+50

92.79

℄

86.65 6.14 34.5 2' Ribbon DT.

86.77 6.02 49.5 Ord floor

84.1 8.7 49.5 Base wall

84.2 8.6 49.5 Ord west of wall

86.1 6.7 Top. Slab

85.9 6.9 31 Base Slab

86.6 6.2 35 on Slab

86.8 6.0 49.5 on slab + wall

90.2 2.6 50

90.4 2.4 35

90.8 2.0 21

87.9 4.9 8

87.9 4.9

87.9 4.9 7

86.8 6.0 9

85.5 7.3 35

89.1 8.7 50

90.8 2.0 75

90.9 2.4 50

88.6 4.2 35

85.8 7.1

83.3 9.5 35

82.2 10.6 75

84.9 7.9 35

83.5 9.3

81.6 11.2 35

92.79

Udall

INDEXED

1+00

See page 69
for 0+00 to 2+64

0+50

0+00 = E. line Warrington

T.P. 9.05 97.96 3.88 88.91

3+00 = W. line Warrington

2+62 31' Rt. = End grout slab

2+61 34.5' Rt. = ℄ 2' wide conc. ribbon

92.79

℄

18

92.8
5.2
3.5

93.4
4.6

92.4
5.6
3.5

93.1
4.9
3.5

91.7
6.3

91.3
6.7
3.5

92.4
3.6
3.5

90.2
7.8

97.96

89.2
8.8
3.5

90.6
2.2
3.5

89.3
3.5

88.0
4.8
3.5

86.5
6.3
31

86.6
6.2
34.5
at Ribbon

86.7
6.1
50
Ord.

86.67
6.12
34.5
Ribbon

86.78
5.99
49.5
Ord.
Elev.

92.79

Udall

T.P.	7.03	97.26	7.73	90.23
3+50				
3+00				
2+70±	Grd. & pavement the same Elev. 21' Lt & 21' Rt. = start curbs. = start A.C. Pave.			
2+35	See page 69			
2+00				
1+50				
		97.96		

INDEXED

90.30 89.20 90.11 90.33 90.34 90.11 90.75

7.66 / 21 / cc — 8.26 / 21 / C — 7.85 / 10± — 7.63 — 7.62 / 10± — 7.85 / 21 / C — 7.21 / 21 / cc

90.87 90.26 90.67 90.91 90.95 90.68 91.25

7.09 / 21 / cc — 7.70 / 21 / C — 7.29 / 10± — 7.05 — 7.01 / 10± — 7.28 / 21 / C — 6.71 / 21 / cc

91.1 91.28 90.69 90.91 91.16 91.15 90.92 91.54 92.2

6.9 / 35 / ord. — 6.68 / 21 / cc end — 7.27 / 21 / C. — 7.05 / 10± — 6.80 — 6.81 / 10± — 7.04 / 21 / C. — 6.42 / 21 / cc end — 5.8 / 35 / Grd

90.8 90.8 91.3 93.1

7.2 / 35 — 7.2 — 6.7 / 22 — 4.9 / 35

91.0 91.3 92.7

7.0 / 35 — 6.7 — 5.3 / 35

91.4 92.8 93.5

6.6 / 35 — 5.2 — 4.5 / 35

97.96

Udall

INDEXED

S.E.B.P. Poinsettia + Voltaire — 0.88 — 96.38 — (96.35)

5+58 — 21' Rt. = ℄ B.C.

5+05 — 21' Lt. = ℄ B.C.

4+60

4+17 — 21' Lt. = ℄ 10' opening - curb inlet

4+00

97.26

℄

93.11 — 4.15 / 35

92.87 — 4.39 / 21

92.81 — 4.45 / 10Σ

92.77 — 4.49

92.60 — 4.66 / 10Σ

92.27 — 4.99 / 21 G

92.82 — 4.44 / 21 ℄ B.C

91.20 — 5.06 / 21 ℄ B.C

91.53 — 5.73 / 21 G

91.66 — 5.60 / 10Σ

91.64 — 5.62

91.43 — 5.83 / 10Σ

91.60 — 6.26 / 21 G

91.67 — 5.59 / 21 ℄

90.58 — 6.68 / 21 ℄

89.99 — 7.27 / 21 G

90.30 — 6.96 / 10Σ

90.43 — 6.83

90.43 — 6.83 / 10Σ

90.18 — 7.08 / 21 G

90.88 — 6.38 / 21 ℄

89.00 — 13.26 / 21 Invert Box

89.75 — 7.51 / 21 ℄

88.79 — 8.52 / 21 Grate

89.23 — 8.03 / 10Σ

89.51 — 7.75

89.67 — 7.59 / 10Σ

89.59 — 7.67 / 21 G

90.16 — 7.10 / 21 ℄

89.80 — 7.46 / 21 ℄

88.91 — 8.35 / 21 G

89.41 — 7.85 / 10Σ

89.64 — 7.62

89.77 — 7.49 / 10Σ

89.63 — 7.63 / 21 G

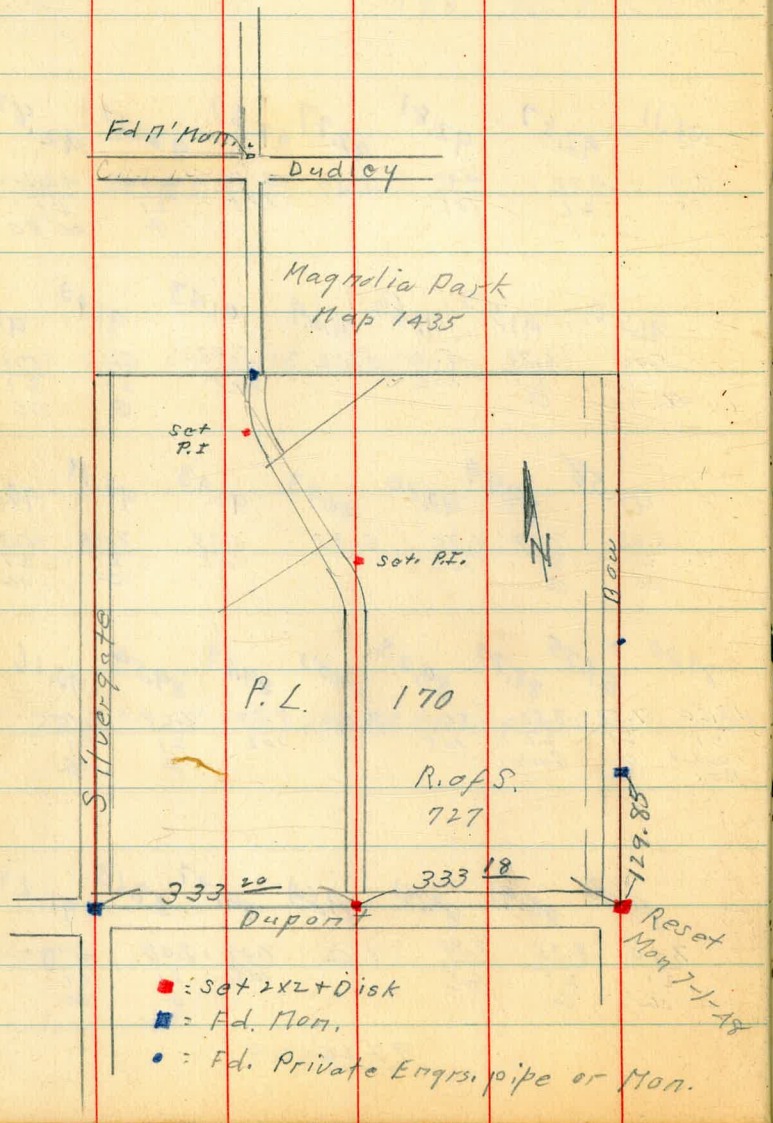
91.28 — 6.98 / 21 ℄

97.26

X-Sec Albion St. Dupont to Charles

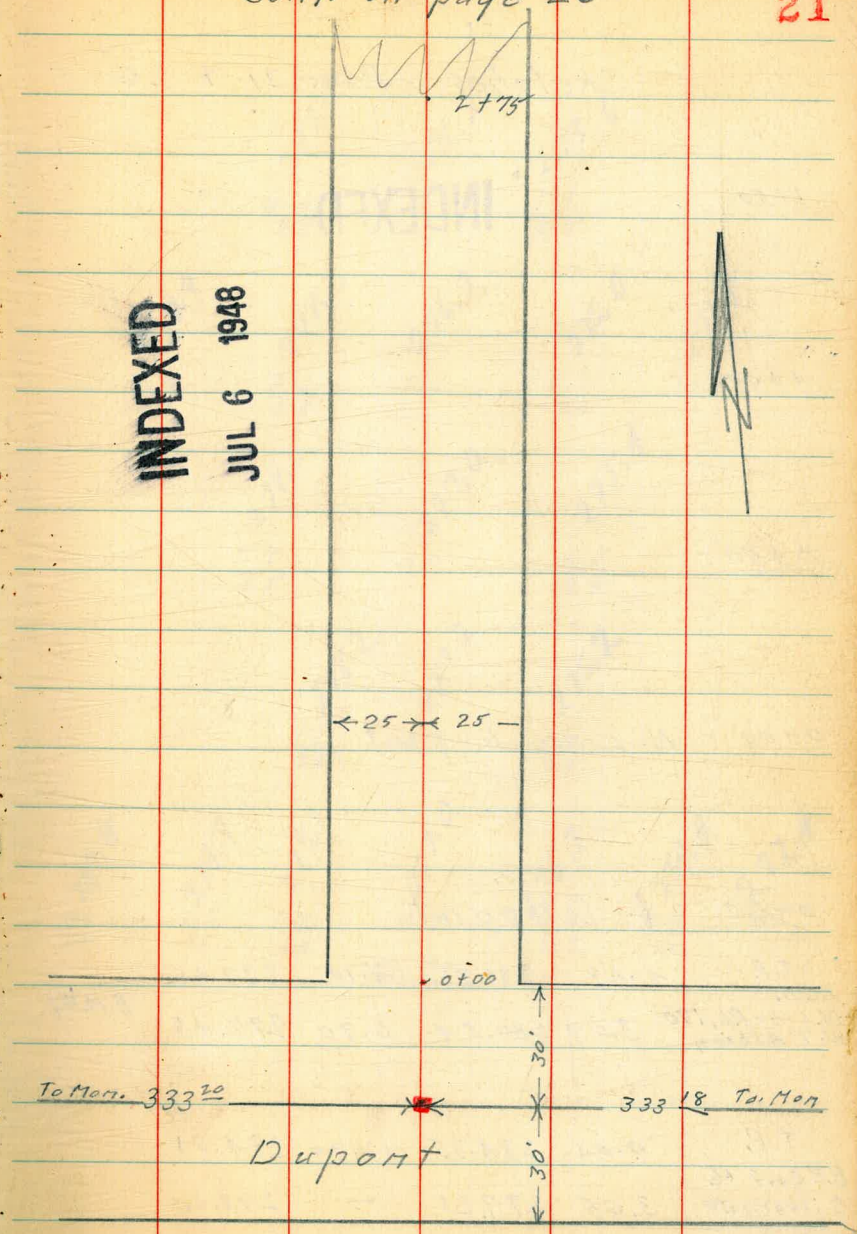
7-1-48
W.O. 25001

Sommermeyer
E. Melton
F Finney
W/ Duncan



Cont. on page 26

21



Albion St.

Sketches - Page 21 X 26

INDEXED

1+50

1+00

0+50

0+00 = N. Line Dupont

0-30 = ℄ Dupont

T.P.	4.48	281.92	3.10	277.44	
Mon. N. Line P.L. 170 W. of Albion	3.09	280.54	6.90	277.45	B.M. #1
T.P.	0.04	284.35	12.94	284.31	
B.P. East of Silvergate 75'S. S. Line Dudley	3.65	297.25	—	293.60	

℄

22

277.5 / 4.4 / 25

276.2 / 5.7

273.6 / 8.3 / 25

280.9 / 1.0 / 100

278.3 / 3.6 / 25

276.7 / 5.2

275.0 / 6.9 / 25

271.8 / 10.1

278.6 / 3.9 / 25

277.0 / 4.9

275.4 / 6.5 / 25

278.2 / 3.7 / 25

277.2 / 4.7

275.2 / 6.7 / 25

281.8 / 0.1 / 150

279.7 / 2.2 / 75

278.1 / 3.8 / 25

277.0 / 4.9

281.92

275.7 / 6.2 / 25

274.0 / 7.9 / 75

272.4 / 9.5 / 150

Albion St

INDEXED

4+03 $\frac{1}{2}$ = Mid curve

3+64.91 = B.C. 4t.

3+29 $\frac{91}{}$

T.P.	4.40	280.43	5.89	276.03
3+00				
2+50				
2+00				

281.92

4

276.1 / 4.3 / 25 — 275.1 / 5.3 — 274.0 / 6.4 / 25

279.9 / 0.5 / 100 — 276.3 / 4.1 / 25 — 275.9 / 5.0 — 274.6 / 5.8 / 25 — 270.8 / 9.6 / 100

276.6 / 3.8 / 25 — 275.9 / 4.5 — 275.5 / 5.4 / 25

280.43

280.2 / 1.7 / 100 — 276.9 / 5.0 / 25 — 276.2 / 5.7 — 275.0 / 6.9 / 25 — 280.5 / 11.4 / 100

277.3 / 4.6 / 25 — 276.2 / 5.7 — 275.5 / 6.4 / 25

280.1 / 1.8 / 100 — 277.5 / 4.4 / 25 — 276.3 / 5.6 — 274.5 / 7.4 / 25 — 270.7 / 11.2 / 100

281.92

Albion St

INDEXED

6+00

B.M. #1
P. 22 — 4.12 — 277.46

5+72 — 15' Rt. / 15' Lt. } = Start. Conc. curbs

5+69.04 = E.C. = N. line P.L. 170

5+30.23 Mid curve

4+91.42 = B.C. Lt. = (L.S 2236 - Pipe)

T.P. — 4.61 — 281.58 — 3.46 — 276.97

4+42.48 = E.C.

280.43

℄

24

277.72 — 3.86 / 15 — Cl.

277.1 — 4.5 / 15

276.8 — 4.8

275.9 — 5.9 / 15

276.57 — 5.01 — Cl.

277.5 — 4.08 / 15 — Top. Cl.

276.42 — 5.16 / 15 — Top. Cl.

278.3 — 3.3 / 25

276.7 — 4.9

275.4 — 6.2 / 25

278.3 — 3.3 / 25

276.6 — 5.0

275.4 — 6.2 / 25

280.5 — 1.4 / 100

277.5 — 4.1 / 25

276.1 — 5.15

274.6 — 7.0 / 25

272.8 — 8.8 / 100

281.58.

276.1 — 4.3 / 25

274.8 — 5.6

274.0 — 6.4 / 25

271.9 — 8.5 / 100

Albion St.

cont. p. 27' INDEX

7+83 L	Sly gutter line Dudley			
7+83	Sly ch. line Dudley			
T.P. ctr. N.E. ch. Rot	11.14	289.18	3.54	278.04
7+73 ±	ch. Rot, B.C. As built			
7+50				
7+00				
6+50				

281.58

285.1 — 3.5 / 100
281.6 — 7.6 / 50
279.6 — 9.6 / 25
277.9 — 11.3
276.2 — 13.0 / 25
274.5 — 14.7 / 50
270.6 — 18.6 / 100

286.24 — 2.94 / 100
282.25 — 6.93 / 50
280.31 — 8.87 / 25 ch. BC.
277.30 — 11.88 / 25 ch. EC.
275.49 — 13.69 / 50
271.7 — 17.5 / 100

289.18 reversed

277.77 — 3.81 / 15 ch. BC.
276.9 — 4.7 / 15
278.1 — 3.5
278.6 — 3.0 / 15
279.49 — 2.09 / 15 ch. EC

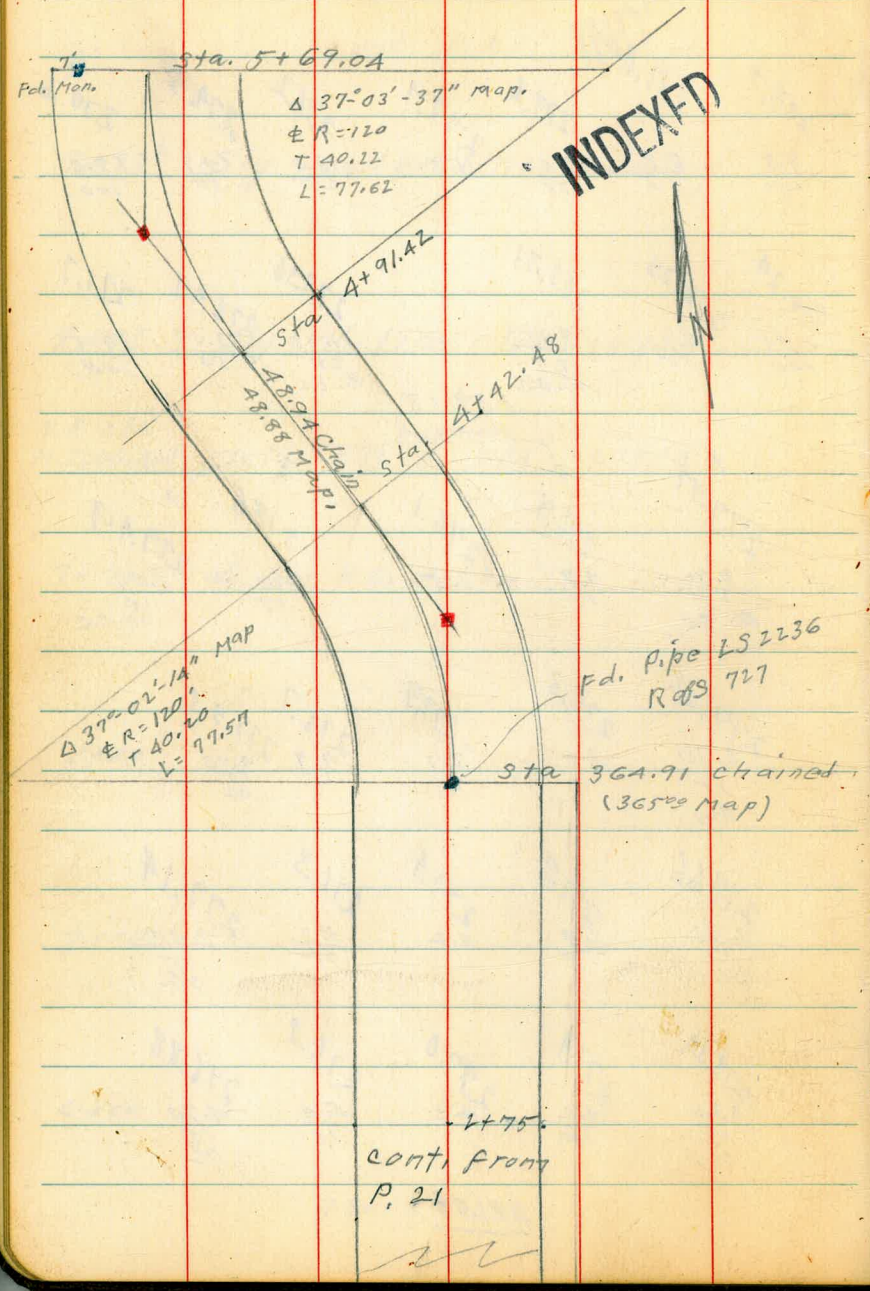
279.28 — 2.30 / 15 ch.
278.3 — 3.3 / 15
277.9 — 3.7
276.7 — 4.9 / 15
277.55 — 4.03 / 15 ch.

278.66 — 2.92 / 15 ch.
277.7 — 3.9 / 15
277.4 — 4.2
276.3 — 5.3 / 15
277.14 — 4.44 / 15 ch.

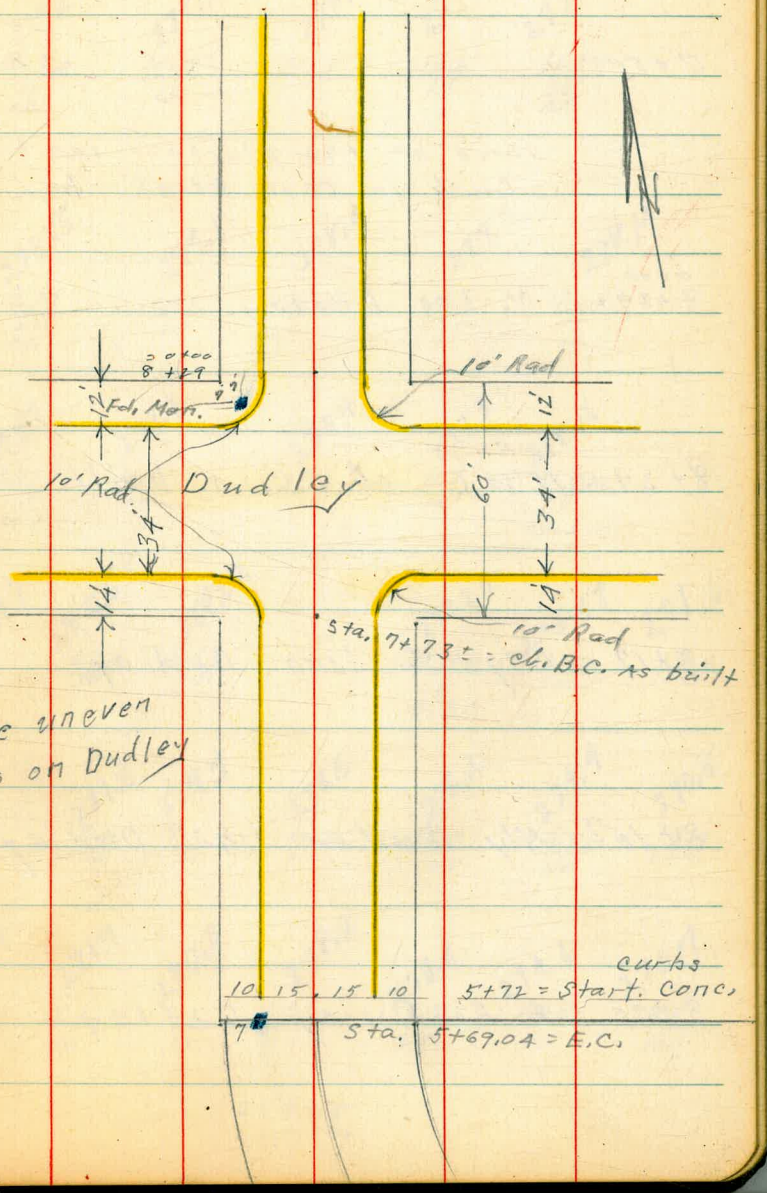
278.14 — 3.34 / 15 ch.
277.4 — 4.2 / 15
277.0 — 4.6
276.2 — 5.4 / 15
276.88 — 4.70 / 15 ch.

281.58

Albion St.



Charles St.



Albion

℄

0+50

Some of the plaster top broken. Curb in this block has

= 0+00

8+29 = N. line Dudley

= 0+00

8+27 15'Rt. } c. / 15'Lt. } = cb. E.C. as built.

8+17 Nly. cb. line Dudley

8+16.9 = Nly Gutter line Dudley

8+00 = ℄ Road way Dudley

279.24 — 9.94 / 15 cb.

278.5 — 10.7 / 15

278.3 — 10.9

277.0 — 12.2 / 15

277.79 — 11.39 / 15 cc

279.85 — 9.33 / 25 cc

279.1 — 10.1 / 15

278.9 — 10.8

277.3 — 11.9 / 15

278.14 — 11.04 / 15 cc

277.87 — 9.31 / 15 cb E.C.

279.1 — 10.1 / 15

278.9 — 10.8

277.3 — 11.9 / 15

278.16 — 11.02 / 15 cb. E.C.

286.47 — 2.71 / 100

284.55 — 6.63 / 50

280.69 — 8.49 / 25 cb. B.C.

277.29 — 11.94 / 25 cb. B.C.

275.38 — 13.80 / 50

271.6 — 17.6 / 100

286.0 — 3.2 / 100

281.8 — 7.9 / 50

279.9 — 9.3 / 25

278.5 — 10.7

276.2 — 13.0 / 25

274.9 — 14.8 / 50

270.8 — 18.4 / 100

286.1 — 2.1 / 100

281.9 — 7.3 / 50

280.0 — 9.2 / 25

278.2 — 11.0

276.4 — 12.8 / 25

274.6 — 14.6 / 50

270.7 — 18.5 / 100

289.18

		Albion	57.		
orig B.M. P. 22			6.89	293.62	(293.60)
T.P.	6.25	300.51	0.63	294.26	
B.P. ℄ Charles E.℄ Silvergate		SS	2.26	292.63	(292.70)
T.R.	12.36	294.99	0.04	282.53	
2+15	= ℄ Traveled road on Charles				
1+95	15' Rt } 15' Lt }	= End Curbs.			
T.P.	5.39	282.57	12.00	277.18	
1+50					
1+00					
		289.18.			

℄

281.27 — 1.3/100

278.17 — 4.4/50

275.57 — 7.0

273.07 — 9.5/50

271.27 — 11.3/100

278.57 — 4.0/50

277.67 — 4.9/25

277.17 — 5.40/15 ℄ End

276.37 — 6.2/15

276.17 — 6.4

275.37 — 7.2/15

276.17 — 6.4/15 End ℄ Top. broken

274.97 — 7.6/25

272.47 — 10.1/50

282.57

277.84 — 11.34/15 ℄

276.9 — 12.3/15

277.2 — 12.0

276.1 — 13.1/15

276.77 — 12.41/15 ℄

278.6 — 10.09/15 ℄

277.68 — 11.5/15

278.0 — 11.2

276.7 — 12.5/15

277.33 — 11.85/15 ℄

289.18

8-26-48 X Sec Alley Orange To Trojan

Hardin Between 50th & Altadena

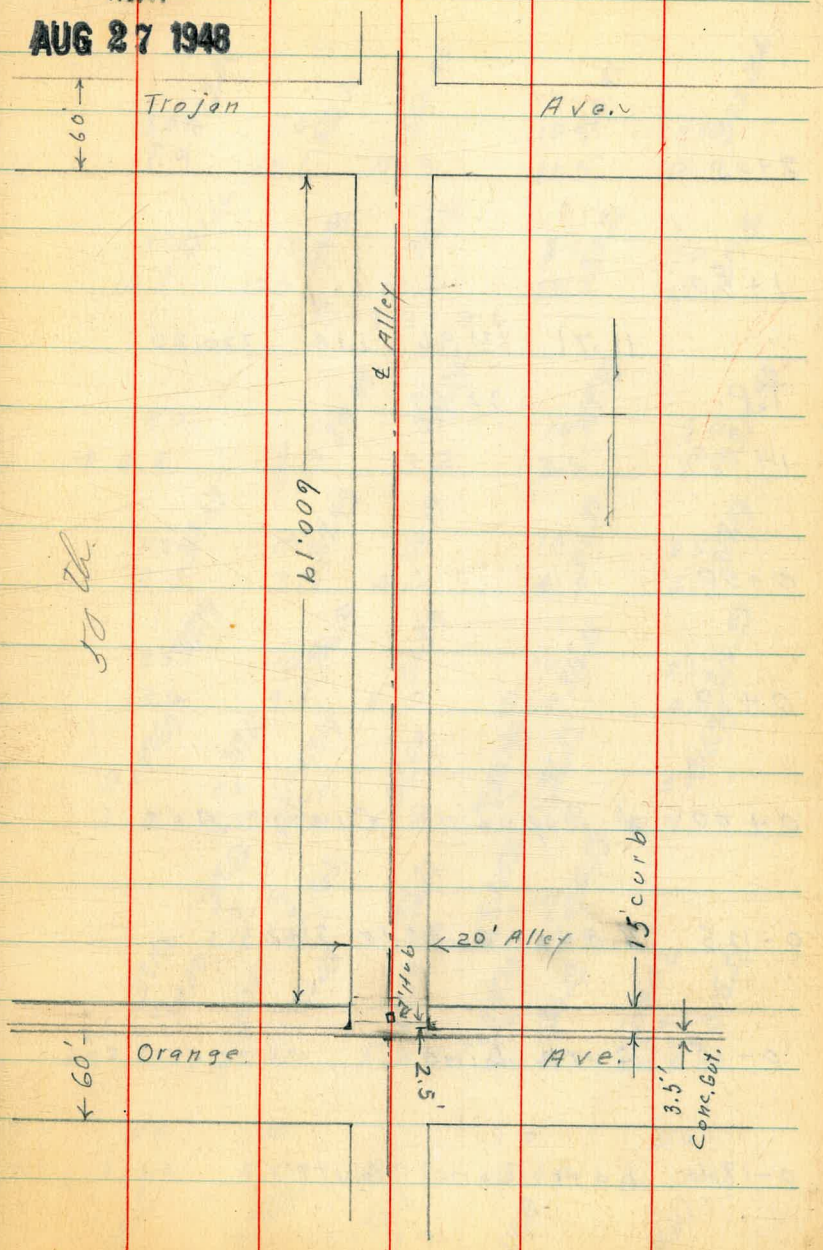
Decker

Rohr Blk. 38, Fairmount Add.

25001

INDEXED
W.K.
AUG 27 1948

29



Check B.M. N.W. 50th Trojan			2.04	376.18	376.16
T.P.	9.24	378.22	0.02	368.98	+.02
T.P.	12.63	369.00	0.42	356.37	
T.P.	12.87	356.79	0.16	343.92	
T.P.	12.31	344.08	0.19	331.77	
T.P.	11.71	331.96	1.14	320.25	
T.P.	4.27	321.39	6.27	317.12	5 Pik in Pole E.Side Alley
	1.30	323.39	11.22	322.09	
	0.36	333.31		332.95	49th Orange S.E.B.P.

					Lt.	℄	Rt
					30 323.06	10 321.36 320.66	10 320.46 30 322.36
2+00					8.9	10.6 11.3	11.5 9.6
					30 321.16	10 319.44 318.76	10 318.72 30 319.86
1+50					10.8	12.5 13.2	13.2 12.1
						↗ 331.96	
	11.71	331.96	1.14	320.25			
T.P.		321.39					
					50	10 319.49 318.19	10 317.89 50 317.59
1+00					+0.4	1.9 3.2	3.5 3.8
					25 318.89	10 317.49 316.79	10 316.99 25 317.19
0+50					2.5	3.9 4.6	4.4 4.2
					25 317.79	10 316.59 316.39	10 316.19 25 316.59
0+10					3.6	4.8 5.0	5.2 4.8
					5 319.39	317.46 10 317.19 316.59	316.49 316.82 50 315.49
0+00	N. Prop. Line		Orange Ave		2.0	cb. 3.73 Gut. 4.2 4.8	Gut 4.9 cb 4.57 5.9
						317.53 10 316.71 316.31	315.88 316.12
0-12.5	N. Edge Gutter Slab					cb. 3.86 Gut. 4.68 5.08	Gut. 5.41 cb. 4.67
					318.96 50 318.00	317.58 10 316.53 316.19	315.83 10 316.09 314.42 50 315.30
0-15	curb Line				cb. 2.43 Gut. 3.39	cb. 3.81 Gut. 4.86 5.20	Gut. 5.56 cb. 4.70 Gut. 6.97 cb. 6.09
					50	10	10 50
0-18.6	Edge conc. Gutter				3.24	4.67 5.01	5.40 6.79
					318.15	↗ 316.72 321.39 316.58	315.99 314.60

4+50					
	12.87	356.79	0.16	343.92	
T.P.	0.16	344.08			
4+07	12.2 Lt. 1 car Garage dirt Floor				
4+00					
3+50					
	12.31	344.08	0.19	331.77	
T.P.		331.96			
3+19	& 1 car Garage Lt. No Apron				
3+00					
2+60	0.5 Rt	& S.M.H.			
2+50					

Lt | ℄ | Rt

80 341.09 | 30 344.99 | 10 345.89 | 10 346.49 | 30 347.29
15.7 | 11.8 | 10 9 | 10.9 | 10.3 | 9.5

↑ 356.79

12.2 340.48
Gar Floor 3.6

30 339.48 | 10 340.08 | 339.88 | 10 340.28 | 30 341.28
4.6 | 4.0 | 4.2 | 3.8 | 3.8

30 334.78 | 10 334.68 | 334.28 | 10 335.48 | 30 335.58
9.3 | 9.4 | 9.8 | 8.6 | 8.5

↑ 344.08

10.2 331.56
Gar. Floor 0.4 0

30 329.96 | 10 329.06 | 328.66 | 10 329.26 | 30 329.46
2.0 | 2.9 | 3.3 | 2.7 | 2.3

0.5
6.82

30 326.16 | 10 325.46 | 324.24 | 10 323.16 | 30 325.36
5.8 | 6.5 | 7.7 | 8.2 | 6.6

331.96

			2.04	376.18	376.16
		378.22			+.02
6+30.22	℄	Trojan			
6+14.22	S. Curb	Line	Trojan Ave		
6+00.22	S	Line	Trojan Ave		
T.P.	9.24	378.22	0.02	368.98	
		369.00			
5+90					
5+60					
5+25					
TP	12.63	369.00	0.42	356.37	
–		356.79			
5+00					

Lt. ℄ Rt.

N.W. B.P. Trojan 50th

50 368.62 9.6 — 10 369.32 8.9 — 8 369.62 — 10 369.82 8.4 — 50 370.02 8.2

50 362.62 15.6 — 23 367.12 10.5 — 10 369.42 8.8 — 8 369.72 8.5 — 10 369.92 8.3 — 50 369.92 8.3

50 356.32 21.9 — 20 367.12 11.1 — 10 368.82 9.4 — 9 369.22 — 10 369.22 9.0 — 30 369.32 8.9

378.22

50 357.30 11.7 — 17 366.50 2.5 — 10 367.70 1.3 — 368.30 0.7 — 10 368.40 0.6 — 30 368.70 0.3

30 356.90 12.1 — 10 361.50 7.5 — 362.40 6.6 — 10 363.30 5.7 — 30 363.40 5.6

50 350.60 18.4 — 10 355.40 13.6 — 356.20 12.8 — 10 356.10 12.3 — 30 357.40 11.6

↑ 369.00

60 346.19 10.6 — 10 351.99 4.8 — 352.19 4.6 — 10 353.09 3.7 — 30 353.49 3.3

↑ 356.79

9-14-48
Hendricks
Roberts
Lorer
WO#80116

Proposed Sewer Blocks 22 & 35
Property Union

INDEXED
W.K.
SEP 15 1948

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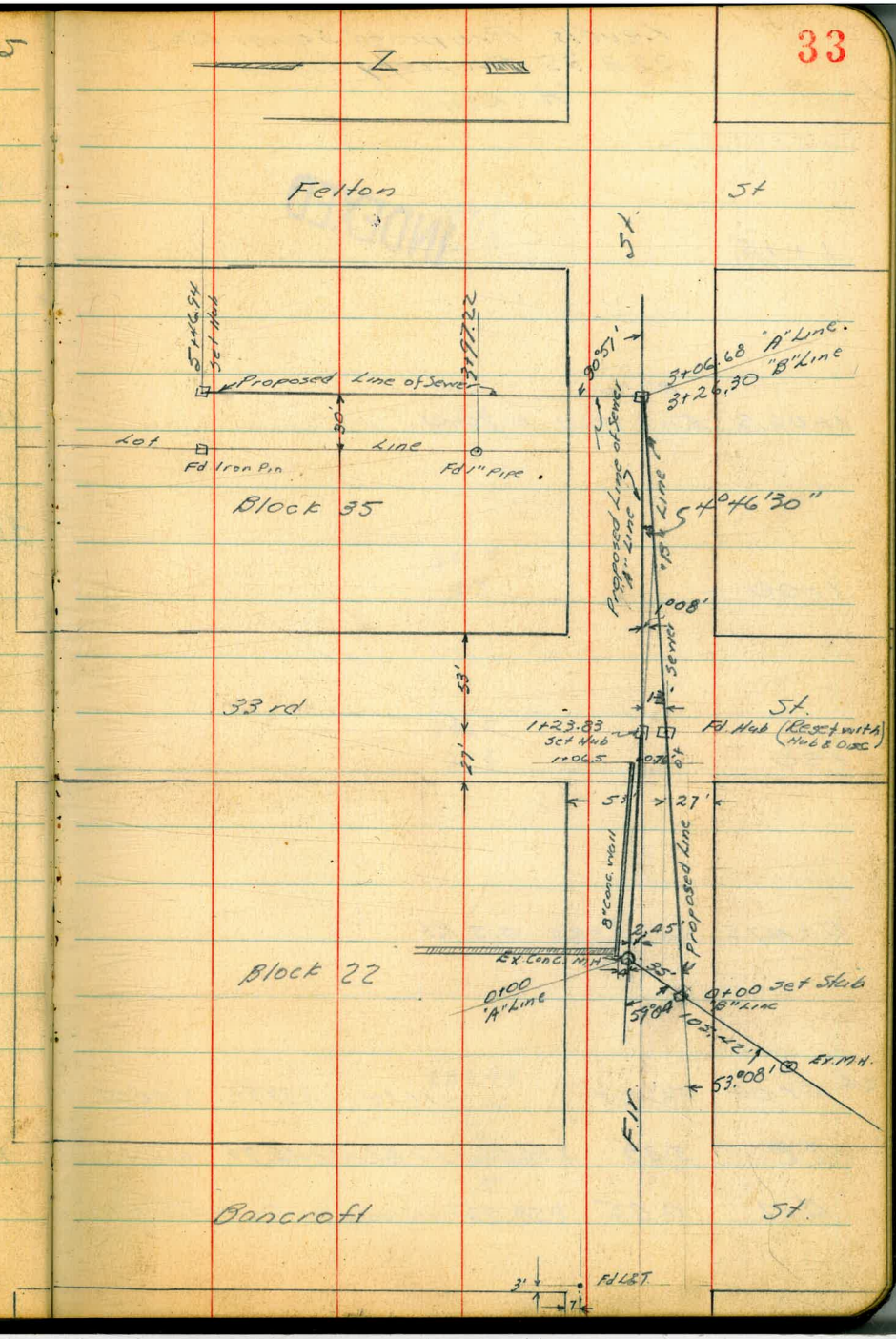


Levels Proposed Sewer Blocks
22 & 35 Property Union
"A" Line

1+15					
1+06.5	8" conc. End Wall 0.76 Lt				
1+00					
+50					
0+47.5	6" Tree 0.5 Rt.				
CK 0+00	FL. MH.		11.14	239.92	2+000
T.P.	5.33 5.51	251.06	12.82	245.73	
B.M	0.85	258.55			257.70

246.9
4 ±

248.1
3 ±

247.7
3 ±

246.9
4 ±

239.92
11.14
FL

Rim M.H. 0+00 251.06
T

HWBP Fir & Bancroft.

("A" Line Cont'd)

3+46.68

TP. 1276 254.75 9.07 241.99

3+06.68 L. Lt 90°51'

+75

+50

2+00

+50

1+23.83 Hub 1°08' Lt.

251.06

℄

℄

240.2

10' 12.6

50

on Hub. 3+06.68 254.75

241.99

9.07

Hub.

244.8

6.3

246.3

2.8

247.5

3.6

246.8

2.3

246.57

4.9

Hub.

251.06

("A" Line Cont'd)

6+03 Back Edge House 4.5 Rt.

5+46.94 End

5+00

4+50

4+27

4+00

3+72

254.75

254.0	253.0	254.5	246.5
0 8	1 8	+0 3	8 3
	4 5 Gr.	Floor	Floor Basement

254.56	246.8	
0 19	8.0	
	50	

251.9	248.8	245.8
2 9	6.0	9.0
	34	50

250.0	243.8
4 8	11.9
	50

249.4	243.7
5 4	11 7
	50

247.4	243.1
7 4	+1 7
	50

245.8	243.3	242.3
9.0	11 5	12 5
	28	50

254.75

B.M.			6.16	277.04	276.96	S.W.B.P. 32nd & Grape
T.P.	8.49	28320	2.95	274.71		
T.P.	12.70	27766	0.73	26496		
T.P.	11.13	265.69	0.19	254.56		
		25475				

"B" Line

+88

+84

+70

+45

+21

+10

0+00

25106 ↗ from P-34

242.3
8 8-

243.6 238.0 235.4
7 5- 13 1- 15 7-
13 20

242.0 237.6
9 1- 13 5-
20

233.0 229.6
18 1- 21 5-
10

232.9
18 2-

231.5
19 6-

227.1
24 0-

25106 ↗

+72

+50

+40

+25

+21

1+04

0+93

25106

246.8 245.7
4 5
20

245.9
5

245.8 245.1
5 6
10

247.7 247.6 242.5
3 3 8
7 15

244.2 241.9 240.2
6 9 10
13 26

244.3 242.3 237.7
6 8 13
11 20

243.8 243.1 237.8
7 8 13
4 14

25106

3+06.68 "9" Line
3+26.30 =

9.07 + 241.99 P.35

241.99
9.07

3+00

249.3
6.8

+50

245.9
5.2

+50

246.7
4.4

2+00

246.9
4.2

251.06

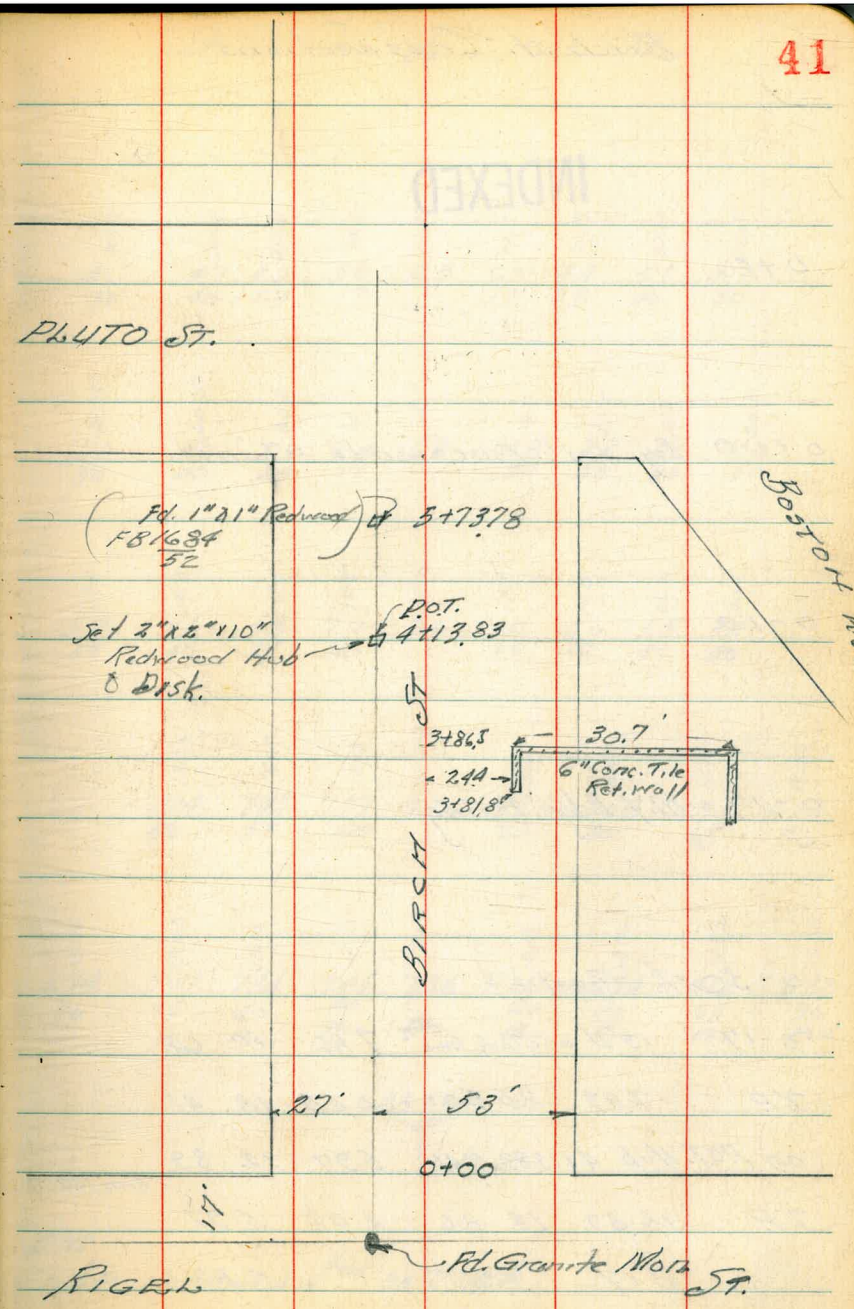
251.06

Walker
Johnson
Pope
Riley
1-26-49

CROSS SECTION: Birch St.
from Rigel to Boston

WO 31194

INDEXED
WK
JAN 27 1949



Birch St. - Cross sections

INDEXED

	Lt.					Rt.		
0+20								
	21.0	20.8	20.6	19.9	19.2	19.5	20.7	20.4	20.8
	4.5 50	4.7 40	4.9 23	5.6 17	6.3	6.0 19	4.8 23	5.1 40	4.7 50
0+00 Beg. Lath Fence on Lt 0.7 in St									
	20.5	20.5	20.2	19.1	18.7	18.7	20.0	19.9	20.5
	5.0 50	5.0 40	5.3 23	6.4 17	6.8	6.8 20	5.5 23	5.6 40	5.0 50
0-10									
	19.8	19.9	19.7	18.5	18.5	18.5	19.5	20.0	20.1
	5.7 50	5.6 40	5.8 25	7.0 20	7.0	7.0 26	6.0 28	5.5 40	5.4 56
0-17 = Wly Edge Paving									
		18.26	18.07	18.13	18.24	18.27	18.45	18.79	19.32
		7.24 82	7.43 53	7.37 20	7.26	7.23 20	7.05 40	6.71 65	6.18 90
0-30 = ℄ Rigol St.									
	18.76	18.43	18.16	18.05	18.14	18.39	18.76	19.32	19.98
	6.74 90	7.07 65 Por.	7.34 40 Por.	7.45 20 Por.	7.36 Por.	7.11 20 Por.	6.74 90 Por.	6.18 65 Por.	5.52 90 Por.
0-17 13" Lt. on Track Gum Mon.	7.86	17.64							
T.P. 7.09 25.50	0.45	18.41							
on P.O.T. Hub 4+383 P-41	5.97	12.89							
T.P. 12.89 18.86	4.02	5.97							
3.17 9.99		6.82							

Tim Mill

25.50

B.M.
S.E.B.P. National Ave and 34TH St.

Birch Street - Cross Sections

1+98.5 = 28' Rt - Elec. Pole # 3460

1+50 = Beg. Wood Fence 39.8' Rt.

1+00

0+98.5 - West side Garage on Lt.

0+91 = ℄ Garage on Lt Dirt Floor

0+84 = East edge Single Gar. on Lt 39.5' Lt.

0+73.5 W side Ribbon Drive

0+67 - East side Conc. Ribbon Drive

0+50 Elec. Pole # 3480 27.8' Rt = ℄ Pole

25.50

39.5' Lt = Fence

	Lt.		℄		Rt.		
	18.1	18.2	17.7	18.0	19.4	19.4	20.0	21.4	22.2
	7.4 50	7.3 40	7.8 36	7.5 25	6.1 19	6.1	5.5 20	4.1 40	3.3 50
	19.4	19.8	20.1	19.8	19.7	20.5	22.2	22.2
	6.1 50	6.2 40	5.4 18	6.7 16	5.6	5.0 21	3.3 40	3.3 50
		19.3 6.2 39.5						
	20.8	20.1	20.2	20.0	19.9	20.4	21.1	22.2	22.4
	4.7 48	5.4 40	5.3 17	5.5 15	5.6	5.1 19	4.4 24	3.3 40 in lawn	3.1 50 in lawn
						21.98 3.52 40 on Drive		22.08 3.42 50 on Drive	
						22.06 3.44 40 on South end		22.18 3.32 50 on Drive	
	21.0	21.2	21.1	20.2	19.7	20.3	21.7	22.3	22.1
	4.5 50	4.3 40	4.4 25	5.3 17	5.8 25.50	5.2 18	3.8 24	3.3 40	3.4 50

Birch Street - Cross Sections

2+68 = ℄ 2.5' Conc. Walk on R

2+76 = ℄ 2.9' Conc. Walk

INDEXED

2+50 = Beg. 3' Conc. Tile Fence on Lt 40.5' Lt.

2+40 = ℄ 12' Conc. Drive 40.4' Lt. E. edge 0.02' Above ℄ W. " 902 below ℄

2+15 = ℄ 3' Conc. Walk on Lt.

2+09 = West Conc. Drive on Rt

2+02 = East edge Conc. Drive on Rt

2+00

2.5.50

Lt				℄		Rt			
						21.29		22.13	
		17.06	17.38			4.21		3.37	
		8.44	8.12			37.5		50	
		50	40.4			on Walk		on Walk	
		on Walk	on Walk						
17.1		17.7	17.9	18.4		18.9	20.6	21.9	22.8
8.4	7.8	7.6	7.1	6.6	4.9	3.6	2.7		
50	40	20		17	29	40	50		
		17.31	17.58						
		8.19	7.92						
		50	40.4						
		on Drive	on Drive						
		17.55	17.64						
		7.95	7.86						
		50.4	40.7						
		on Walk	on Walk						
				20.21		21.56		22.75	
				5.29		3.94		2.75	
				24.7		25		50	
				Rough Drive		Beg Finish Drive		on Drive	
				20.05		21.60		22.68	
				5.95		3.90		2.82	
				24.7		35		50	
				Beg. Drive Rough		on Drive Finish		on Drive	
17.2		17.6	18.2	18.6		19.0	20.4	21.9	22.9
8.3	7.9	7.3	6.9	6.5	5.1	3.6	2.9		
50	40	19		17	28	40	50		

2.5.50

Birch St. - Cross Sections

INDEXED

					℄						
	14.1	14.4	14.1	14.2	14.1	13.9	14.6	15.7	16.4	15.8	15.3
3+78	4.7 50	4.4 40	4.7 38	4.6 20	4.7	4.9 13	4.2 17	3.1 32	2.4 34	3.0 40	3.5 50
	15.4	15.6	15.2	15.4		15.5	16.9		17.4		17.4
3+50 = Beg. 2.5' Picket Fence 36.1 Rt.	3.4 50	3.2 41	3.6 17	3.4		3.3 17	1.9 36.1		1.9 40		1.4 50
	15.27	15.7	15.7	15.9	16.1		17.5	17.7		17.9	
3+40	3.54 50 Drive	3.1 40	3.1 24	2.9	2.7 19		1.3 33	1.1 40		0.9 50	
	15.27	15.53									
3+44 = ℄ 8' Conc. Drive on Lt Level Across	3.54 50 Drive	3.28 41 Drive									
	16.48	16.75									
3+17 = ℄ 2.8' Conc. Walk on Lt.	2.33 48 on walk	2.06 41 on walk									
on Hub P.O.T. 4+1383 T.P. 5.94 18.81 12 C3 12.87					18.81						
	16.5	17.0	17.0	17.5		17.9	18.1	17.8		17.8	
3+02	9.0 50	8.5 40	8.5 28	8.0		7.6 17	7.4 25	7.7 40		7.9 50	
	16.6	17.0	17.1	17.6		18.0	19.4		20.6	21.1	21.3
3+00	8.9 50	8.5 40	8.4 28	7.9		7.5 17	6.1 25		5.0 38	4.4 40	4.2 50
	2.5.50				2.5.50						

Birch St -
Cross Sections

INDEXED

	Lt.	℄	Rt.
4+32	12.3 6.5 62	9.9 8.9 40 9.4 37	10.5 8.3 25 10.6 8.2 8.6 10.2 9	8.6 10.2 15 5.8 13.0 25 5.7 13.1 40 5.9 12.9 78
4+20	13.3 5.8 60 11.3 7.5 50	10.9 7.9 40 12.7 6.1 25	12.5 6.3 9 11.5 7.3 10.3 8.5 15	6.3 12.5 33 6.3 12.5 40 5.8 13.0 50 6.0 12.8 77 9.1 9.7 100
4+13	13.5 5.3 60 11.5 7.3	11.4 7.4 40 12.9 5.9 24	13.0 5.8 5 12.2 6.6 11.2 7.6 16	10.8 8.0 40 9.5 9.3 46 6.5 12.3 60 7.1 11.7 88
4+05	11.8 7.0 55 11.9 6.9 40 11.9 6.9 37	13.4 5.4 25 13.4 5.2 18	13.4 5.4 9 12.8 6.0 12.5 6.3 16	11.6 7.2 25 11.3 7.5 40 10.9 7.9 50 10.7 8.5 60
4+02.5 = ℄ Elec Pole #3420 28.2' Rt				
3+93 = ℄ 16' Frame House 72.7' Rt to House	23'x7.8' Conc. Porch	11.24 7.57 70.4 Porch	11.24 7.57 72.7 on Conc. Porch	
3+87	13.1 5.7 50 13.5 5.3 40	13.8 5.0 27 13.7 5.1 13.3 5.5 15	12.1 6.7 24 11.5 7.3 40 10.9 7.9 50	
3+86	13.3 5.5 50 13.5 5.3 40	13.8 5.0 27 13.7 5.1 18.81 13.5 5.3 15	12.7 6.1 24 4.38 4.43 2.44 on Top 6" Conc. - Tile Wall	15.13 3.68 29 on Wall 15.08 3.73 on Wall 15.05 3.76 on Wall

Birch St. - Cross Sections.

				004 / 682
Chk. Starting BM.			317	678
T.P.	4.02	9.95	3.81	5.93
6+03	18.5' Lt. = Pole Anchor.			
6+00 ±	= E.L. Lima Plant to St.			
5+99	8.8' Lt. = Pole Anchor.			
5+80	30.9' Rt. & Elec. Pole #0 Number			
5+50				
T.P.	3.78	2.74	12.85	5.96
5+00				
4+60				
4+50				

18.81

	Lt.			℄		Rt.	
6+00 ±	4.9 / 4.8 / 80	5.1 / 4.6 / 40	5.0 / 4.7 / 20	5.2 / 4.5	5.2 / 4.5 / 20	5.7 / 4.0 / 40	5.2 / 4.5 / 80
5+80	5.5 / 4.2 / 80	5.6 / 4.1 / 40	5.8 / 3.9 / 20	5.9 / 3.8 / 9.74	5.8 / 3.9 / 20	5.7 / 4.0 / 40	5.2 / 4.5 / 51	5.8 / 3.9 / 80
5+00	5.7 / 13.1 / 80	6.1 / 12.7 / 40	6.2 / 12.6 / 20	5.8 / 13.0	5.6 / 13.2 / 20	5.6 / 13.3 / 40	5.9 / 12.9 / 62	
4+60	5.3 / 13.5 / 80	5.9 / 12.9 / 40	6.0 / 12.8 / 20	6.4 / 12.2	6.5 / 12.3 / 16	5.7 / 13.1 / 40	5.5 / 13.3 / 70	
4+50	6.0 / 12.8 / 63	8.1 / 10.7 / 50	7.8 / 11.0 / 40	7.0 / 11.8 / 32	6.1 / 12.7 / 16	6.7 / 12.1	6.8 / 12.0 / 16	6.0 / 12.8 / 22	5.8 / 13.0 / 40	5.4 / 13.4 / 71

18.81

X-Sect. Rigel Street from Cottonwood to Acacia Str.

Roberts
W. Moore
Clark
2-11-49
W.O. 31194

F.B. 1177, 1736

T.P. 421

INDEXED
WK
FEB 15 1949

48

ACACIA ST.

Fd. Mon.

6+80.67

27'

17'

43'

140.15'

Rigel

20'

140.15'

3+00.37

Birch St.

5'3"

Fd. Mon.

27'

3+00.37

140.185'

± 30'
AC Pav.

20'

140.185'

17'

43'

4+01.00

Cottonwood St.

5'3"

Fd. Mon.

27'

Contd from Page 48

0+26	℄ 3' Sidewalk 30± Rt				
0+24.5	22' Lt to 6" Pepper				
0+15	22' Lt to 8" Acacia				
	30.4' Rt. Begin Picket Fence				
	29.4' Lt. Begin Picket Fence				
	22.3' Lt to 6" Acacia Tree				
0+00	E. Prop. Line Cottonwood				
0-19					
0-20					
0-40	℄ Cottonwood				
T.P.	6.43	20.52	1.79	14.09	Mon. 27' Cottonwood 17' Rigel
T.P.	9.50	15.88	4.80	6.38	
BM	4.90	11.18		6.28	Chisel Sq. Sa. Cb. Main W.L. Rigel

Lt.	℄	Rt
		1.39 / 30 conc.
16.7 / 3.8 / 50	17.1 / 3.4 / 30	17.5 / 5.0 / 16
16.60 / 3.92 / 14 Edge A.C.	17.37 / 3.15	17.15 / 3.39 / 16' Edge A.C.
18.3 / 2.2 / 25	18.5 / 2.0 / 30±	18.3 / 2.2 / 50
15.3 / 5.2 / 100		
12.0 / 5.5 / 100	15.8 / 4.7 / 50	16.1 / 4.1 / 18
15.84 / 4.48 / 12 Edge A.C.	16.62 / 3.90	
11.2 / 9.3 / 100	13.4 / 7.1 / 30	15.3 / 5.2 / 18
15.82 / 4.70 / 15 Edge A.C.	16.61 / 3.91	16.28 / 4.29 / 17 Edge A.C.
17.5 / 3.0 / 29	17.8 / 2.7 / 50	16.7 / 3.8 / 78
15.1 / 5.4 / 100		
11.2 / 9.3 / 100	13.4 / 7.1 / 50	15.09 / 5.43 / 15 Edge AC.
15.82 / 4.70	15.52 / 5.00 / 16 Edge AC.	16.8 / 3.7 / 35
17.0 / 3.0 / 50	16.1 / 1.4 / 78	14.4 / 6.1 / 100
20.52		

	Cont'd from Page 49			
1+00				
0+92	22' Lt	14" Acacia		
0+79	22' Lt.	10" Pepper		
T.P.	5.80	25.24	1.08	19.44
0+77.5	16' Lt to face Water Meter.			
0+62.5	21' Lt. to 24" Acacia			
0+50				
0+47	30.6' Rt End Picket Fence			
0+36	22' Lt to 10" Acacia			
0+28	20.2' Lt to Center P.Pole #450709 #JP2090			

20.52

20.9 Lt.	20.9	20.8	20.34	℄ 20.42	20.05	20.3 Rt.	20.1
4.3 / 50	4.3 / 30	4.4 / 17	4.90 / 14 Edge AC.	4.82	5.19 / 15.5 Edge AC	4.9 / 30	5.1 / 43

25.24

0.0 / 16

19.6	19.6	19.8	18.64	19.18	18.90	19.6	19.6	19.4
0.9 / 50	0.9 / 30	0.7 / 16	1.66 / 13 Edge A.C.	1.34	1.62 / 15 Edge AC	0.9 / 21	0.9 / 30	1.1 / 50

20.52

Cont'd From Page 50

T.P.	5.03	25.84	4.43	20.81	Nail in P PA 3304
1+40 18	W. Alley Line				
1+38	31.5' Lt to S.E. Cor. House				
1+36.5	21' Lt. to Center P. Pole # P2052				
1+32	22' Lt. to 2" Pepper				
1+19.5	29.6' Lt. End Picket Fence S.W. Cor. of House 31.5' Lt.				
1+17	℄ 3' Sidewalk 30.3' Lt.				
1+15	℄ 3' Sidewalk 30.7' Rt				
1+09	22' Lt to Center Pepper				
1+05	23' Rt to Water Meter				

25.24

Lt.		℄		Rt.			
20.2	21.2	20.9	20.72	20.79	20.43	20.3	19.8	17.3
5.0 / 100	4.0 / 50	1.3 / 30	4.52 / 13.8 Edge A.C.	4.45	4.81 / 15.3 Edge A.C.	4.9 / 30	5.4 / 30	7.9 / 100

21.34
3.90 / 30.3 conc

20.41
4.83 / 30.7 conc.

20.1
5.1 / 23

25.24

Cont'd from Page 51

		Lt.			℄			Rt.			
3+00.37	West Line Birch 22' Lt to Power Pole #P2000	20.0	20.2	19.6	19.6	17.62	17.73	17.30	17.3	16.0	14.4	14.3
		5.2	5.0	5.6	5.6	7.62		7.94	7.9	9.2	10.8	10.9
		100	50	30	23	14 Edge AC	7.51	15 Edge AC	16	30	50	100
1+96	Fire Hydrant 22½' Rt to Center											
2+50		20.8	20.4	19.5	17.99		18.37	17.59	17.8	16.9	16.2	
		4.4	4.8	5.7	7.25			7.65	7.4	8.3	9.0	
		50	30	22	15 Edge AC		6.89	14.5 Edge AC	16	30	50	
2+00		21.6	20.9	19.7	19.17	19.45		18.95	19.2	18.7	18.4	
		3.6	4.3	5.5	6.67			6.29	6.0	6.5	6.8	
		50	30	20	14.6 Edge AC		5.79	14.6 Edge AC	16	30	50	
1+97	Begin Board Fence 30¾' Rt											
1+91	End Porch 33' Lt.											
1+69½	End Lath Fence Begin Porch 33½' Rt											
1+60½	Begin Lath Fence 33¾' Rt.	20.2	21.0	20.8	20.5	20.06	20.12	19.80	19.9	19.3	18.5	16.5
	E. Line Alley - Begin Lath Fence 30½' Lt.	5.0	4.2	4.4	4.7	5.18		5.44	5.3	5.9	6.7	8.7
		Tee	50	30	21	14.5 Edge AC	5.12	14.3 Edge A.C.	15	30	50	100
1+42	33½' Rt to Center P. Pole #PA330½											

25.84

25.84

Cont'd From Page 52

3+63

3+51.8 ℄ 41'X54' S.D.G&E Co. MH 20.3' Lt to Edge

See Pg 42 This Book Mon. on Birch

Check 8.85 17.82 = 17.64

3+40.37 ℄ Birch

3+22

3+17

T.P. 7.01 26.67 6.18 19.66

End Board Fence 29± Rt

3+01 End Picket Fence 30' Lt.

25.84

	Lt			℄			Rt	
20.6	19.8	19.0	18.50	18.5	17.82	17.0	16.2	15.1
6.1 / 100	6.9 / 50	7.7 / 30	8.17 / 14.5 Edge AC	8.0	8.85 / 16 Edge AC	9.7 / 30	10.5 / 50	11.6 / 100
			18.80					
			7.87 / 20.3 Rim MH					
20.1	19.5	18.9	18.40	18.28	17.38	16.9	16.2	14.9
6.6 / 100	7.2 / 50	7.8 / 30	8.27 / 13.5 Edge AC	8.39	9.29 / 16 Edge AC	9.8 / 30	10.5 / 50	11.8 / 100
20.2	20.2	19.1	18.29					
6.5 / 100	6.5 / 50	7.6 / 30	8.38 / 14 Edge A.C.					
20.7	20.6	20.3	19.9	18.3	18.25			
6.0 / 100	6.1 / 50	6.4 / 30	6.8 / 22	8.1 / 19	8.42 / 14 Edge A.C.			

26.67

25.84

Cont'd From Page 53

		Lt	℄	Rt
4+75	Both Walks walk 31½' Lt. End Conc. Wall Begin 4⅝' Conc. Walk TP to ℄ Right 20.5' Lt. Meter Box		22.57 4.6 31½ Top 22.1 4.6 31½ Bott 21.54 5.13 20.5 Meter	
4+61	31½' Lt. to Conc. Wall 31' Lt. Begin Picket Fence	21.47 5.2 31½ Bott. 21.96 4.71 31½ Top		
4+54	℄ Conc. Drive 16½' Lt 15' Wide – 27' Lt 7' Wide		22.83 3.84 60 Floor Garage 21.50 5.17 33 Conc. 20.99 5.68 27 conc 20.21 6.46 16½ conc	
4+42	℄ Double Garage 59' Lt		22.5 4.2 59 22.3 4.4 50 20.9 5.8 30 19.79 6.88 14 Edge AC 20.47 6.20 20.08 6.58 16.5 Edge AC. 20.7 6.0 30 20.8 5.9 50	
4+31	End Lath Fence 30.7' Lt			
4+09	22.8' Lt to P. Pole # J.P. 1990 # 450707H			
3+80.37	Begin Lath Fence 30½' Lt Begin Lath Fence 30.1' Rt East Line Birch		22.1 4.6 100 20.7 6.0 50 20.1 6.6 30 20.0 6.7 18 18.60 8.09 14 Edge AC. 18.93 7.74 18.19 8.48 16.5 Edge AC 17.2 9.5 21 18.1 8.6 30 18.4 8.3 50 17.9 8.8 100	
3+66			21.0 5.7 100 20.9 5.8 50 20.2 6.5 30 20.2 6.5 23.5 18.6 8.1 19.5 18.52 8.15 14.5 Edge AC 18.64 8.03 17.90 8.77 16 Edge AC. 16.7 10.0 30 16.8 9.9 50 17.0 9.7 100	

26.67

26.67

Cont'd From Page 54

		Lt.	℄	Rt.
6+00		26.0 / 5.7 / 50	25.35 / 6.32 / 13.5 Edge AC.	25.87 / 5.80
		26.3 / 5.4 / 30		
		24.5 / 5.2 / 17		25.94 / 5.73 / 16 Edge A.C.
				26.5 / 5.2 / 22
				26.4 / 5.3 / 30
				25.9 / 5.8 / 50
5+47	℄ Single Garage 53 Lt.		24.95 / 6.92 / 53.9 conc.	
T.P.	8.05 31.67 3.05 23.62		31.67	
5+40 52	E. Line Alley	24.5 / 2.2 / 100	23.32 / 3.35 / 14.5 Edge AC	24.07 / 2.60
		23.8 / 2.9 / 50		23.86 / 2.81 / 17 Edge AC.
		23.7 / 3.0 / 30		24.0 / 2.7 / 30
				22.9 / 3.8 / 50
				20.9 / 5.8 / 100
5+20 52	W. Line Alley	24.1 / 2.6 / 100	22.59 / 4.08 / 14.5 Edge AC.	25.32 / 3.35
		23.8 / 2.9 / 50		23.14 / 3.53 / 17 Edge AC
		23.7 / 3.0 / 30		22.8 / 3.9 / 30
		23.4 / 3.3 / 19		22.5 / 4.2 / 50
				20.4 / 6.3 / 100
	End Lath Fence 29.1 Rt.	24.03 / 2.64 / 31.3 conc.		
5+19 5	End Picket Fence 31' Lt End Conc. Walk 31.3 Lt.			
5+17 5	22.6 Lt to Center P. Pole # P1952			
5+10	Water Meter Box 24.5 Rt Rod = 3.82	23.5 / 3.2 / 50	22.60 / 5.07 / 15 Edge AC	22.52 / 4.15
		23.3 / 3.4 / 30		22.32 / 4.35 / 17 Edge AC.
		22.9 / 3.8 / 17		22.6 / 4.1 / 30
				22.7 / 4.0 / 50
5+00				

26.67

26.67

Cont'd From Page 55

Check			4.85	6.27 = 6.28 starting BM
T.P.	4.60	11.12	6.75	6.52
T.P.	0.92	13.27	12.78	12.35
T.P.	6.16	25.13	12.70	18.97

7+20 67 ℄ Acacia

6+80 67 W. Line Acacia

6+80 Power Pole 20' Lt to Center #P1900

6+51 ℄ Conc. Walk. 2' W. de 29.9' Rt

31.67

Lt.	℄	Rt
27.9	28.2	28.39
3.8 / 100	3.5 / 50	3.25 / 37 Edge AC.
		29.00
		2.67
		28.95
		2.72 / 1 Edge AC.
28.3	28.0	27.9
3.4 / 30	3.7 / 50	3.8 / 100

27.8	28.1	28.0	28.2	26.97	27.95	27.93	27.6	26.7	26.1
3.9 / 100	3.6 / 50	3.7 / 30	3.5 / 21	4.70 / 16.3 Edge AC.	3.72	3.74 / 16.4 Edge AC.	4.1 / 30	5.0 / 50	5.6 / 100

27.5	27.7	27.8	26.28	27.08	27.50	27.86		27.99	28.44
4.2 / 50	4.0 / 30	3.9 / 18	5.39 / 12.9 Edge A.C.	4.59	4.17 / 17.5 Edge A.C.	3.81 / 29.2 conc.	4.0 / 29.7 dirt	3.73 / 38.5 Conc.	3.23 / 38.5 Porch

31.67

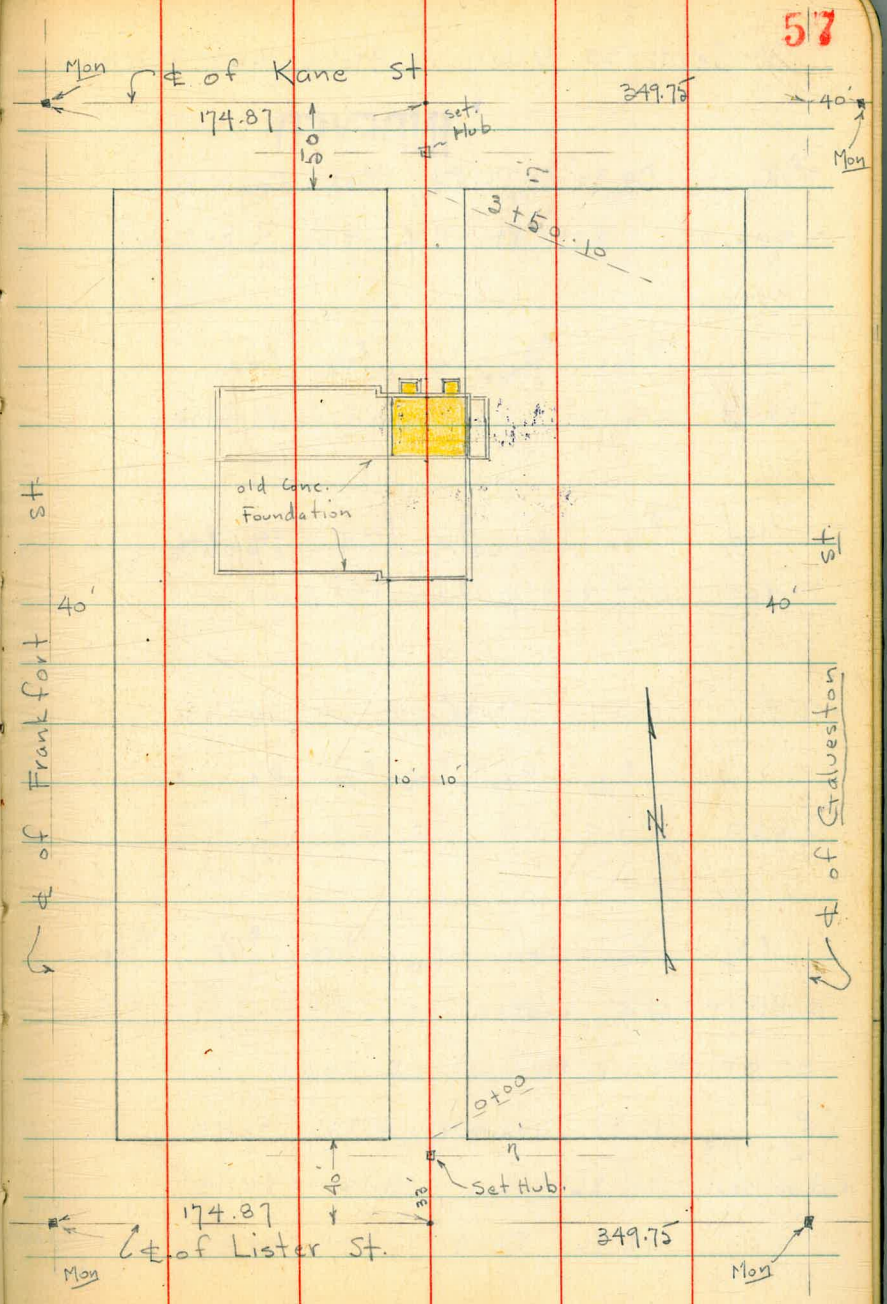
57

X- Sect. 20' Alley - in Block 86
Morena 509 - Owners claim No Alley in Blk.

3493
W.O. 25001

5-17-49
Osborne
Hardin
Hatch
Shepard

INDEXED
WK
MAY 18 1949



X-Sect. 20' Alley in Block 86 - Morena

INDEXED

T.P.	10.95'	122.52	0.78	111.57

2+00.05 - 0.10' Rt. = ½" Pipe L.S. 2001

fence to w.

1+50 - 0.10 Lt. = end fence & Planting

0.10 Lt. - Beg. Lath fence - planting in Alley

1+00 - 0.07' Rt. = ½" Pipe - L.S. 2001

T.P.	11.57	112.35'	0.64	100.78

0+50

0+00 = N.L. Lister

0 - 00.04 - .12' Rt. - Pipe L.S. 2001

T.P.	10.98	101.42	6.85'	90.44
C - 8.08				
Rod on stub. - MH. 36			11.16	86.13 ✓
	12.92	97.29		84.37 = spike in Pole SW. Frankfort & Lister

	Lt.		℄		Rt.	
	110.7	110.2	108.9	108.5	108.7	106.7
	1.6	2.1	3.4	3.8	3.6	5.6
	15'	10		10	15'	50
	106.6	106.3	106.1	105.9	106.0	
	5.7	6.0	6.2	6.4	6.3	
	15' along fence	10'		10	15'	
	103.3	102.8	102.7	102.5	102.0	101.8	100.1
	9.0	9.5	9.6	9.8	10.3	10.5'	12.2
	25	15	10		10	15	40
			112.35'				
		99.0	98.7	97.7	97.0	96.7	
		2.4	2.7	3.7	4.4	4.7	
		15	10		10	15	
	95.6	93.0	92.5	91.3	90.7	90.5	85.3
	5.8	8.4	8.9	10.1	10.7	10.9	16.1
	50	15	10		10	15	50
			101.42				

2.7' Rt. = Cor. of 8" Conc. wall

2+72.2' – 1.4 Lt. = Cor. of 8" Conc. wall

2+69 = Wly. of 12" Wall

2+68 = Sly. of 12" Conc. wall = edge of Conc. floor.

2+53.1 = Nly. of 12" wall = Beg. Conc. floor

2+52.1 = Sly. of 12" Conc. found wall

2+22 = Nly. of wall

11.3' Rt. = Cor.

2+21 = Sly. of 12" Conc. foundation wall

59' Lt. = S.W. Cor. found.

+ 2' N.

Lt.		℄		Rt.	
116.86		116.86	116.4	116.76	116.81	116.3
5.66		5.66	6.1	5.76	5.71	6.2
+ ground 6.7 =		1.4		2.7	8.1	8.1
wly. Cor.		Top		Top	Top	ground
Top.					Ely.	
					Cor.	
116.83	111.20	116.87	115.4	116.74	111.15	116.77	115.4
5.69	11.32	5.65	7.1	5.78	11.37	5.75	7.1
6.1	6.1 =	1.4 =	ground	2.7 =	7.5 =	7.5	8.2 ground at wall
+ ground Top –	Conc. floor.	Ely. of		Top – wly.	Conc	Top	
Ely. of		8" wall		of N + S.	floor.	wly. of	
8" N + S. wall		To N.		8" wall		8" wall	
116.7	117.54	117.46	109.64	117.41	109.63	109.63	117.44	115.21	114.16
5.8	4.98	5.06	12.88	5.11	12.89	12.89	5.08	7.31	7.9
12.7	12.7	9	9	Top	Conc.	10.5	10.5	16.4	16.4
	Top Cor. Jogs 2' N.	Top = Ely. of Wall N + S.	floor.		floor.	floor	Top	Top – Cor. lower wall	
116.2	116.2	117.51	109.64	109.63	109.63	105.17	103.3
6.3	6.3	5.01	12.88	12.89	12.89	7.35	9.2
15	9.5	9.0	9.0	Conc. floor	10.5	16.4 =	16.4
wly. ground.		Top Ely. of wall	Cor. Conc. floor.		Cor. Conc. floor.	Top – Cor. lower wall	
		117.50	115.4	114.4	117.44	114.2	117.57
		5.02	7.1	8.1	5.08	8.3	4.95
		10	10	ground	Top	10.5	10.5
		Top wall			wall	ground	Top = wly. of N + S wall
			112.5	111.6	111.4		
			10.0	10.9	11.1		
			10	ground	10		
115.6	117.56	112.4	111.4	117.58	110.2		
6.9 – ground	4.96	10.1	11.1	4.94	12.3		
59 =	13.4	13.4	ground	Top	11.3		
Cor.	Top	ground		wall	ground		
2' N.	wall at Jog – 2' N.				at Cor.		

122.52

= C7.01 - on	Mt. 80'		8.21	93.91	– checked
	2.76	102.12	11.18	99.36	
T.P.	0.55'	110.57	12.53	109.99	

3+50.10 = S.L. of Kane

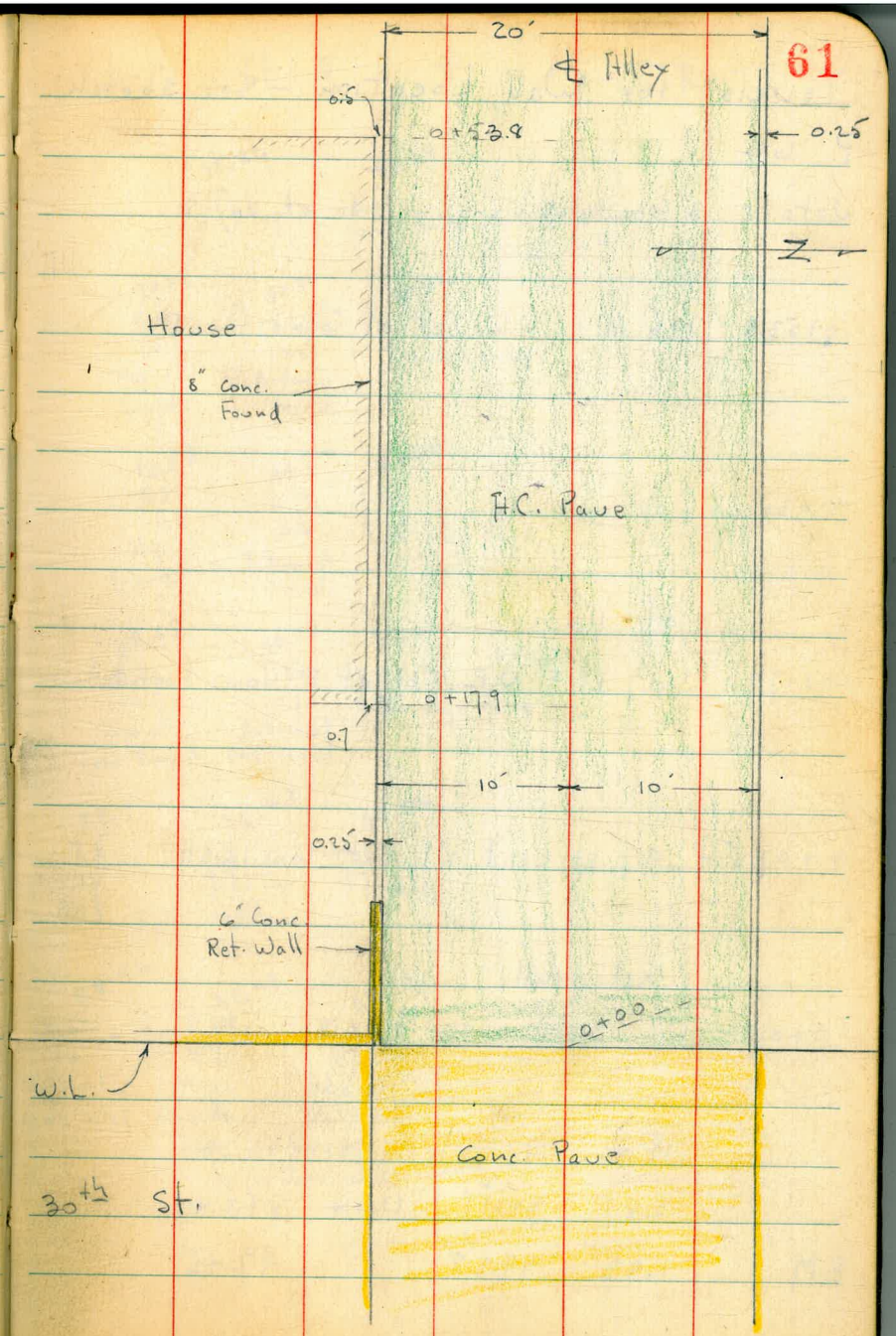
	Lt		℄		Rt	
3+25	110.3	114.7	115.0	115.9	116.6	116.9	118.4
	12.2	7.8	7.5	6.6	5.9	5.6	4.1
	50	15	10		10	15	50
	118.6	118.9	118.9		118.9	118.7	
	3.9	3.6	3.6		3.6	3.8	
	15	10			10	15	
3+00	116.8	119.1	119.5	118.9	118.6	118.3	117.1
	5.7	3.4	3.0	3.6	3.9	4.2	5.4
	40	15	10		10	15	50
2+75	117.8	117.6	117.2		116.4	116.2	
	4.7	4.9	5.3		6.1	6.3	
	15	10			10	15	

122.52

Location + Levels for Prop. Ret. wall for House on S. Side of 20' Alley at 30th - Alley Block 324 - Reed + Daleys Add. - 0.25' excepted on both sides for Pave. See Plan 7335-L

W.O. 3148 7-26-49

F. Osborne



Levels for Wall Location – See sketch

P. 62

Note: - 3" Conc. Wall along W. side of House

0+53.8 - 10.5' Ht. = N.W. Cor. of Conc. found.

0+35'

of House

0+17.9 - 10.7' Ht = N.E. Cor. of 8" Conc. foundation

0+07.5' - 9.7 Ht. = end Nly. of Conc wall

Ref. wall

0+00 = W.L. 30th - 9.7' Ht = Beg. Nly. of 6" Conc.

		✓		✓
	12.06	97.39	6.78	85.33
	3.87	92.11 ✓	11.04	88.24 ✓
B.M.	1.83	99.28 ✓		97.45

Lt = S ℄ Rt = N. 62

93.26
4.13
10.8' = Top

92.29
5.10
10.5' = Bottom + Nly. of 3" Conc. wall

92.72
4.67
10.5
Top of found.

91.74
5.65
10.5
Bottom of found.

91.36
6.03
9.75' = edge Pave

92.58
4.81
10.6
Top found.

90.67
6.72
10.6
Bottom of found.

89.58
7.81
9.75' = edge Pave

92.63
4.76
10.7
Top of Conc. found.

90.05
7.34
10.7
Bottom of Conc. found

87.91
9.48
9.75' = edge Pave

89.9
7.5'
15'
dirt

88.42
8.97
9.7 = Top wall

86.76
10.63
9.7 = Pave

88.46
8.93
15'
Top of N. & S. wall

88.42
8.97
9.7
Top = N. side wall

86.17
11.22
9.7
edge of Pave & face of 6" Conc. wall

97.39

		Lt.	℄	Rt.
Set Nail in Pole opp. 0+25	8.18	8 9.21 ✓		
1+00 = end.				
		95.1	94.9	94.90
		1.7	2.5	2.49
		15	10.5	9.75 = edge Pave
0+85		95.1	95.1	93.9 93.84
		2.3	2.3	3.5 3.58
		15	11.2	10.5 9.75 = edge pave
0+60		93.3	93.0	92.0 91.93
		4.1	4.4	5.4 5.46
		15	11.2	10.8 9.75 = edge pave
				97.39

8/18/49

X-Section Alley Blk. 8 North Shore Highlands

W.O. 25020

Sub. div. Map #1969 sheet 4

McCoy
Allen
Rorer

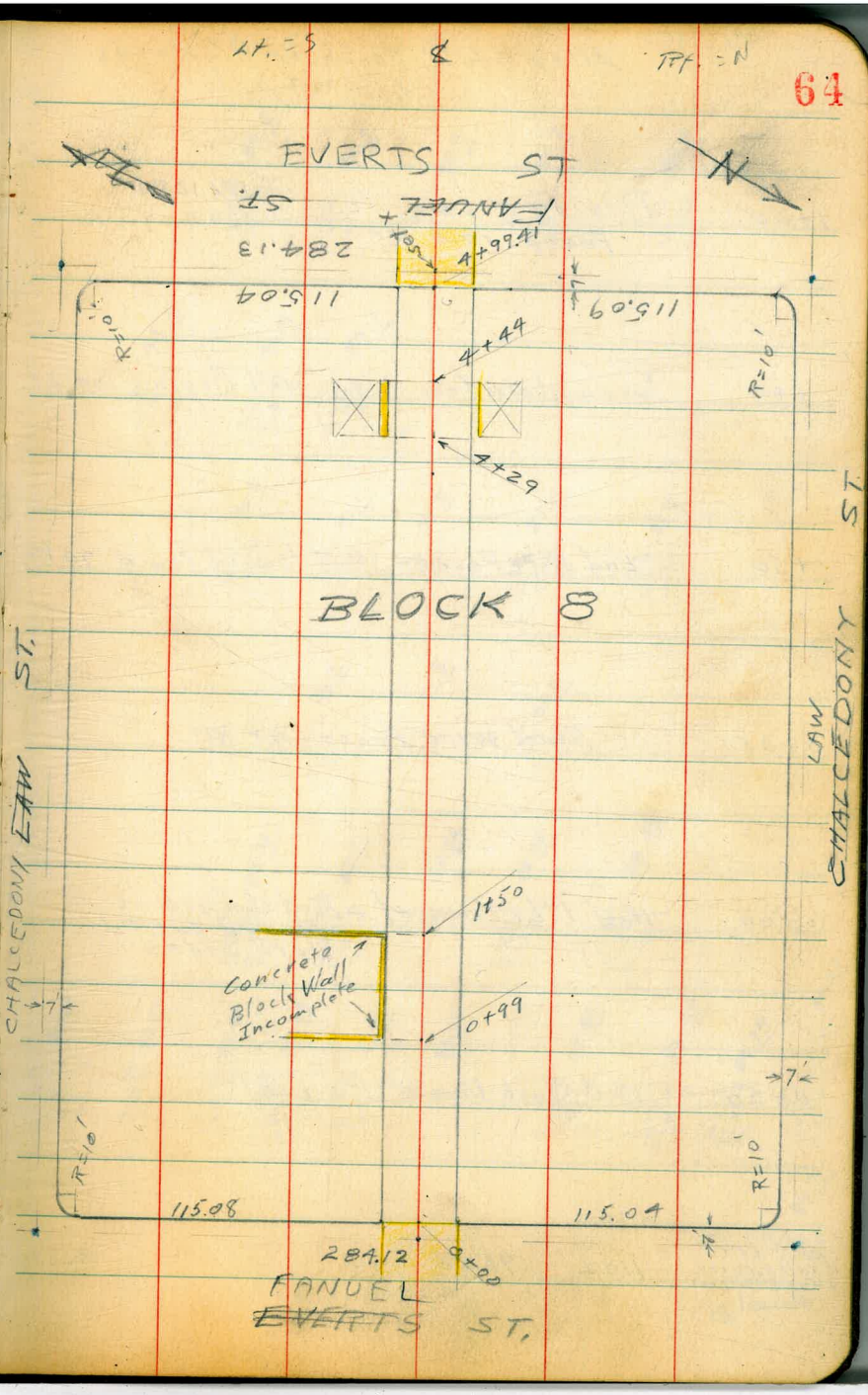
INDEXED
W.K.
AUG 19 1949

Notes Reduced & Plotted Profile #4036 McClarren 8-30-49

Bench levels from Chalcedony & Gresham (G-259-23) see

(TP#12) N.W. L+T Chalcedony + Gresham	3.36	92.70			89.34
TP#1	4.32	90.67	6.35	86.35	
TP#2 set B.M. NE 7' Lt. Chalcedony + Fanuel	11.02	96.28	5.41		85.26
TP#3	2.72	89.80	9.20	87.08	
T.P.#4	3.01	85.92	6.89	82.91	
T.P.#5 Set B.M. NE 7' Lt. Chalcedony + Everts	5.92	85.03	6.81		79.11
TP#6	6.94	87.81	3.66	81.37	
(T.P.#7) NE 7' Lt. Chalcedony + Fanuel	7.11	92.37	2.55		85.26
N.W. L+T Chalcedony + Gresham			3.04		(89.34) 89.33

64



Alley Blk & No. Shore Highlands (cont)

Lt = S & Rt = N

			89.5	90.5	90.9	90.7	90.6		
1+00	Pole 8.5 Left. Fence 10.0 Rt	JPA 1280 434467-H	6.8 / 25	5.8 / 10	5.4	5.6 / 10	5.7 / 25		
			94.6	90.4	89.1				
+99	Incomplete Conc. Block wall Begins 10.4 Lt		1.7 / 10.4 Top Wall	5.9 / 10.4 Grd.	7.2 / 10.4 Footing				
			90.4	91.1	91.5	91.6	91.7		
+50	End wire Fence - Start Board Fence 9.9 Rt		5.9 / 25	5.2 / 10	4.8	4.7 / 10	4.6 / 25		
				91.2	91.3	92.0			
0+25	Start wire Fence 9.8 Rt			5.1 / 10	5.0	4.3 / 10			
			88.87	88.75	88.54	88.90	89.45		
0+00	West P.L. Fanuel - Part of Curb is Pushed out 0.1 both Sides		7.41 / 9.9 Cb.	7.53 / 9.9 Gut	7.74	7.38 / 9.9 Gut	6.83 / 9.9 Cb.		
			87.83	87.20	88.18	87.83	87.91	88.23	88.60	88.68	89.34	89.07 / 7.21 / 25 Gut
0-20	West Curb Line of Fanuel		8.45 / 30 Curb	9.08 / 30 Gut	7.80 / 12 Cb. BC	8.45 / 12 Gut BC	8.37 / 10 Gut.	8.05	7.68 / 10 Gutter	7.60 / 12 Gut BC	6.94 / 12 Curb BC.	6.57 / 25 Cb. / 89.71

See p9.64 NE. 7' Lt T Chalcedony + ~~Geesman~~ Fanuel

11.02 96.28 85.26

<96.28>

		Lt	℄	Rt
+99	End Board Fence - Start Rail Fence 9.5 Rt.	83.5 / 6.3 / 2	84.0 / 5.8 / 10	84.5 / 5.3	84.7 / 5.1 / 10	85.2 / 4.6 / 2
+50						
+49	End Rail Fence - Start Board Fence 9.9 Rt " Board " - Start Lath + Wire " 10.0 Lt	83.4 / 6.4 / 2	84.2 / 5.6 / 10	85.1 / 4.7	85.6 / 4.2 / 10	86.0 / 3.8 / 2
3+00	End Board Fence - Start Rail Fence 9.8 Rt " Wire Fence - Start Board " 10.2 Lt					
+50	Pole 8.5' Lt {J.P.A. 12 2 434466 M	85.0 / 4.8 / 2	85.8 / 4.0 / 10	86.1 / 3.7	87.0 / 2.8 / 10	87.4 / 2.4 / 2
2+49	Start Board Fence 9.9 Rt " Wire " 9.9 Lt.		(89.80)			
T.P. #3	2.7 r 89.80 920 87.08	86.8 / 9.5 / 2	87.0 / 9.3 / 10	87.8 / 8.5 / 9	87.6 / 8.5	88.2 / 8.1 / 10	88.5 / 7.8 / 2
2+00						
1+50	End Conc. Blk. Wall 10' Lt	88.5 / 7.8 / 2	93.37 / 2.9 / 10 Top wall	88.1 / 8.2 / 10 Wall Footing	89.2 / 7.1 / 10 Grd.	89.2	89.5 / 6.8 / 10	89.6 / 6.7 / 2
1+49	End Board Fence 10.3 Rt		(96.28)			
	96.28					

		Lt.	℄	Rt
5+00	End Lath + Wire Fence 11.4 Lt			
+98	Pole 8.6 Lt {JPA 1202 / 43 44 64}			
+90	End Cyclone Fence 10.7 Rt			
+70		82.5 / 7.3 / 2J	82.9 / 6.9 / 10 — 83.3 / 6.5 — 83.8 / 6.0 / 10	84.2 / 5.6 / 2J
+50	Start Lath + Wire Fence 10.0 Lt. " Cyclone Fence 10.0 Rt			
+44	End 2 Car Garage 13.2 Rt. " 2 " " 14.7 Lt	84.07 / 5.73 / 14.7 Floor — 83.69 / 6.11 / 12.4 conc. Apron	83.5 / 6.3 / 10 — 83.7 / 6.1 — 84.1 / 5.7 / 10	84.31 / 5.J / 13.0 Grd. — 84.88 / 4.92 / 13.2 Floor
+29	Begin 2 Car Garage 13.1 Rt " 2 " " 14.7 Lt	84.11 / 5.69 / 14.7 Floor — 83.97 / 5.83 — 83.7 / 6.1 / 10 Apron	83.9 / 5.9 — 84.2 / 5.6 / 10	84.95 / 4.85 / 13.1 Floor (No Apron) — 84.30 / 5.J / 13 Grd.
+26	End Rail Fence 9.7 Rt			
+01	Pole 8.8 Lt {JPA. 1222 / 43 44 6J M}			
4+00	End Lath + Wire Fence 10' Lt.	83.4 / 6.4 / 25	83.9 / 5.9 / 10 — 84.1 / 5.7 — 84.4 / 5.4 / 10	84.7 / 5.1 / 2J
	89.80		(89.80)	

Note: Alley Curbs (as well as curb returns at Street Intersections) where backed up by Sidewalks, push out and break off. A better Joint between walk + Curb is needed.

(See Pg. 64 for Bench Check)

TP#5 Set BM N.E. Tkt. Chalcedony + Everts		6.81		79.11
	T 85.92			
5+19.91	East Curbline Everts			
TP #4	3.01	85.92	6.89	82.91
4+99.91	East P.L. Everts - Begin P.C. Paving			

Lt = S

82.00	81.29	82.32	81.66	81.69	81.92	82.15	82.24	82.89	82.44	83.16
3.92	4.63	3.60	4.26	4.23	4.00	3.77	3.68	3.03	3.48	2.76
25	25	12	12	10		10	12	12	25	25
Cb.	Gut	Cb BC.	Gut				Gut	Cb BC	Gut	Cb.

(85.92)

82.60	82.31	81.98	82.55	82.98
7.20	7.49	7.82	7.25	6.82
10	10	Pvt.	9.85	9.85
Cb	Gut	7.4	Gut.	Cb. End
		Gr.		

(89.80)

Rt = N

Udall St levels

sketch page 4 5/18/53 C.H.S.

1+10

1+00

0+50

0+10

0+00= Ely line Warrington

50' East of E. line Warrington

Soil sample from 10' So. of ℄ Udall

8.50 96.15 87.65

℄ Udall St.

91.2	92.2	92.1	92.2	92.2	
5.0	3.5	3.5	3.5	3.5	
35	15		20	35	
93.1	92.8	92.2	92.3	92.2	92.5
3.1	3.4	3.5	3.9	3.5	3.7
35	10		19	23	35
92.9	91.9	91.5	91.5	90.8	91.4
3.3	4.3	4.7	4.7	5.4	4.8
35	9	8		20	35
92.1	91.2	90.3	90.3	89.8	
3.7	5.0	5.9	5.9	6.4	
35	8	7		35	
89.9	90.2	89.2	89.1	89.2	89.4	89.3
6.3	6.0	6.5	6.7	6.5	6.8	6.9
35	12	9		9	20	35

96.15

S.W. prop. Mon Warrington & Udall

Page 11

Udall St.

See page 19.

2+70 = start A.C. Pave.

Conc. drive

2+64 34 Lt. = ℄ level 10' wide

2+50

51 Lt. = ℄ Bldg. slab to 22' wide Bldg.

2+33 49 Lt. = ℄ 3' wide doorway.

2+00

1+50

1+45 51' Lt. = ℄ under Const. 25' wide Conc. slab floor

℄

				91.99	92.05	95.04
				4.16	4.10	1.11
				34	35	50
					on drive	
90.3	90.2	91.4	91.4	92.6		
5.9	5.5	4.8	4.8	3.6		
35	20		20	35		
	90.15					
	6.00					
	49 Conc. slab					
90.3	90.2	91.2	92.4	93.01		
5.9	5.3	4.5	3.8	3.2		
35	20		24	35		
89.9	91.6	92.6	92.8	93.2	93.3	
6.3	4.6	3.6	3.4	3.0	2.9	
35	18		21	22	35	
89.85						
6.30						
51						
Floor						

96.15

Re X-Sec Warrington ST - Udall ST to Voltaire ST. WO# 32507
12-28-54 - C. Allen, D. Sisson, C. Powell -

See Sketch Page 2

25³ LT = end Curb Return
35¹ RT = B.C. 20' C6 Rad
0-14 To RT = Curb Line Udall ST to Sly.

35° LT = BC. 20 C6 RT
0-17 - To LT = Curb Line Udall to Nly.

0-35 - Sewer Manhole on Line

35° LT = C6 BC - 20' Radius
0-53 - To Left = Curb Line Udall to Nly (P)

25³ LT = end Curb Return
0-56 } 35⁵ RT = Curb BC
= Curb Line Udall to Sly.

Curb is New - Street under Const
0-59 25¹ RT = end Curb Return - Type G Gutter

Udall ST Now under Construction

0-70 = Wly (P) Line Udal ST

BM — BM #2 Page 11 — 87.65

LT			℄	RT	
	87.0⁰ 25³ T.C.	86.5⁰ 25³ GUT		87.8² 35¹ GUT BC	88.2.8 35¹ T.C. BC
86.7⁰ 35⁰ T.C. BC	86.0.8 35⁰ GUT BC	87⁰ 15	87.4	87.6³ 25 A.C.	
	86.3 25		87.3.8	87.2.4 25 edge A.C. Pave	
85.7.2 35⁰ T.C. BC	85.2.4 35⁰ GUT BC	85.3 25	86.9 12	87.4	86.9 16	86.8.1 25 edge A.C.
	85.9.8 25³ T.C.	85.5³ 25³ GUT		86.8³ 35⁵ GUT BC	87.3.5 35⁵ T.C. BC
				86.4.8 25¹ GUT	86.9.7 25¹ T.C.
87.6 25	87.2 18	87.4 16	87.7	87.6 10	87.4 15	88.3 25

direct elevation Rod used - all elevations are True elevations

X-Sec Worrington St cont

LT		℄		RT			
0+50							
0+45 - 37.4 LT = Jog in stucco house							
0+43 - 27° LT = ℄ 4' wide Conc. walk							
0+30 - 27° LT = ℄ 4' wide Conc walk							
0+15 - 44° LT = begin 2 unit stucco duplex							
0+01							
0+00 = 16.7 RT = ℄ 8" Tel Pole # 430645 H Ely (?) Lane Udall ST							
0-11 - 25.4 RT = end 20' curb Radius							

LT		℄		RT			
90.1	89.8	88.1	88°	87.9	88.1	91.7	91.8
37.4	25	17		12	13	25	50
9" at House							
	90.1	91.30					
	37.4	37.4					
	9" at House	Floor					
90.30	90.08	89.59					
37.4	27.9	27°					
Porch & walk	Top Step	Lower step					
90.25	89.97	89.48					
37.4	27.9	27°					
Porch & walk	Top Step & walk	Lower Step					
	91.32	90.2					
	44°	44°					
	Floor	9" at House					
					91.4	91.3	
					33	50	
	88.5	87.2	87.6	87.7	88.6	89.1	89.8
	25	18		13	14	25	31
89.4	89.3	88.6	87.1	87.6	87.7	88.1	89.3
50	35	25	18		16	25	50
86.6	87.2	86.7	87.5	87.5	87.56	88.03	88.7
50	25	18		15	25.4 OUT	25.4 T.C.	50

True elev.

X-Sec Warrington Court

	LT	℄	RT
1+60 5= 27.7 LT = SE COR 2' wide Walk N+S conc			
	87.80	87.5	
	27.6 Walk	27.6 Gr.	
1+56 - 26.6 LT = ℄ 8.5 wide Steps + Porch			
	90.2	87.8	
	26.5 Top Porch	26.5 Gr	
26.6 LT = SE COR Porch + Steps			
1+52 - 27.6 LT = NE COR 2' wide N+S Walk			
88.39	88.0	87.8 86.4	86.3 86.0 87.7 88.6
27.5 Walk Bottom Steps	27	25 14	14 25 50
1+05			
	89.7	87.7	87.6 87.6 88.4 89.1
	25	14	16 25 50
27.6 = begin 2' wide side walk PP to Prop			
See Sketch Page 3			
21.2 LT = ℄ 12" Power pole # P2130			
1+00 - 16.6 RT = ℄ 10" Tel Pole # 458031 H			
90.2	90.05	89.4 87.6	87.7 87.5 89.5 91.3 91.7
50	27.6 Walk	25 17	12 23 25
0+88 25.0 LT = end Conc drive			
89.96	89.60	88.32	
52.0 Floor	38.0 Brk in drive	25.0 Drive	
0+72 - 25.0 LT = begin Conc drive			
89.95	89.58	88.31	
52.0 Floor	38.0 Brk in dr	25.0 Drive	

Direct elev. Rod.

X-Sec Warrington Cont

LT ℄ RT

1+94- 16.8 RT = ℄ 8" Tele Pole # 430647H-

Section from here on are as
Shown on Pages 13+14-

1+84- 21.6 RT = ℄ Telephone Co. Manhole

1+71- 21.8 LT = ℄ deadman.

1+65- 21.8 LT = ℄ 10" anchor pole (Power Co)

1+63- 20° RT = begin Stucco Bldg.

87°8
21.6
Rim MH.

80°7 30° 9L

89°3 30° Floor

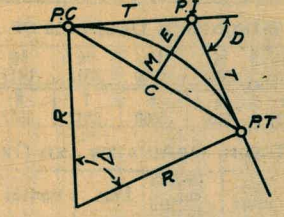
Direct elev Rod used

Sewer Flow Meter to North Island in Police yard.

[illegible]		15.88	—	0.00	[illegible]
Grate seat in meter house in police yard.	(on Tile)		4.52	12.95	
T.P.	5.30	17.47	3.71	12.17	
Rod: 3.68 Rim Boat 12.20 / 15.88	15.88	15.88	—	0.00	Invert M.H.
Grate seat in meter House in Police yard.	(on Tile)		4.52	5.41	El. top of Tile
T.P.	5.30	9.93	3.71	4.63	
Invert	Boat 12.20 off		15.88	-7.54	El.
Rim M.H.	Kelly Bros. S.W. Harbor		3.68	4.66	El. Rim
T.P.	6.87	8.34	5.73	1.47	
S.W.B.P. India & Market	4.78	7.20		2.42	

15.88
8.34
7.54

DIETZGEN'S RAILROAD CURVE AND REDUCTION TABLES



CURVE FORMULAS

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

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

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

External=E=Ttan$\frac{\Delta}{4}$-(7)=R ÷ cos.$\frac{\Delta}{2}$—R(8)=Rexsec$\frac{\Delta}{2}$(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′.

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.

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