

Johnston's Book

94

MINING
TRANSIT BOOK

363 A

2

Survey prepared
 A. F. Nelson + Chas Hedge
 Sec 31 + 32 - 16 - 2 E
 P.O. Box 542 Lebanon
 Tel 482

6.98
 13.58
 13.56
 13.59
47.71

15.04
 3966 / 20,000.00
 11830
 3.07
 3965 / 209.00
 11895
 19500 / 1136
 19930
2570

100 X 15 X .58 $\frac{78}{12}$ 7
 $\frac{1500}{58}$ 58
 12000 12700
 750.0
 870.00 100
 23 96

100, 213
 900
 73.20
 6
 0
 1350
 40
 6400.0

8
Survey for Eliza
Gipson Heins
E²NW⁴ + W²NE⁴
Sec. 15 Tp 15 N. R 1 E
Jan. 14 - 1924

Begin Corn SW⁴ Run N
522 + 15 = 537'
+ 522

1059
+ 522

1581
+ 522

2103
+ 582

2685 to Corn SW⁴

531 + 15 = 546
+ 531

1077
531

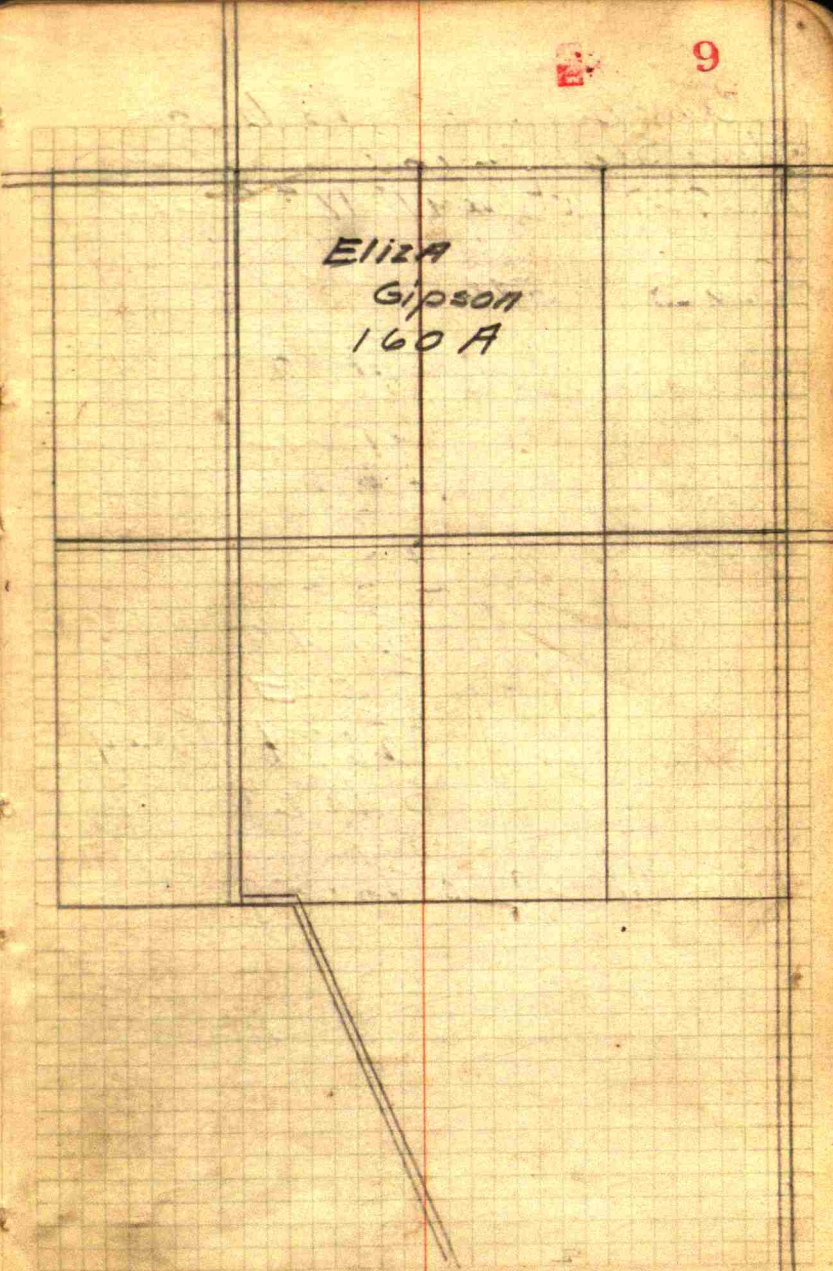
1608
531

2139
531

2670
15

2685

9
Eliza
Gipson
160 A



Run ¹⁰E 1355' to N² mile
stone Sec 15 - Continue E
to 2727' at beam NNE⁴ Sec 15

Run S ~~546~~ 582
+ 522

582
+
1104
+ 522

1626
+ 522

2148
539

2687' to Leg
S BE 4

Run W 2730' to Beg.

Laura J. Butler ¹¹ 2
Louisa Blanch Stalcup 2
John W Mipson ⑤ 1

Flora J. Cassel }
Lena M. Holiday }

{ Frank Butler
C. R. Cassel
John Stalcup
Clarence Holliday
John T. Gipsom (Widow)

on Wline

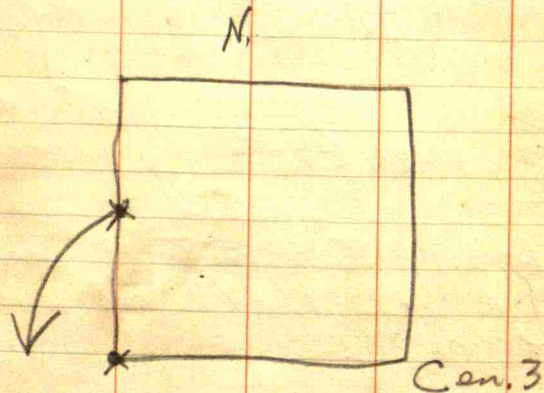
Sta 1061 - 10+89 - shed 120' W

10+98 - 11+43 Res 70 W

10+24 - 9+64 Barn 400' W

9+44 - 8+94 Barn 420' W

Jenkins - Welchans Survey
 1/4 mi. stone W. Cen. of
 NW 4 of Sec. 3



Wit. - 22 links S 15° W
 Sugar tree. 24" in diameter
 Cornerpost 31 links east

Eli Masten + Matilda
Masten his wife

a. part of SE⁴ of SE⁴ of
Sec 34-15-2 W. Beg at a
point 29 rods W of SE cor
of said Sec 34. Thence N
43½ Links to S line of Terre
Haute and Ind. RR. Thence SW
with bearing of said RR. 51 Rods.
Thence S 35½ Links to SW
cor of said Q. Thence E
on sec. line 51 rods to place
of beg. Cont. ½ acre more or less.

100
36.5
63.5

16

Paul Hardin

125-297 - July 24-1920

H.R. Free to Ellen Hardin

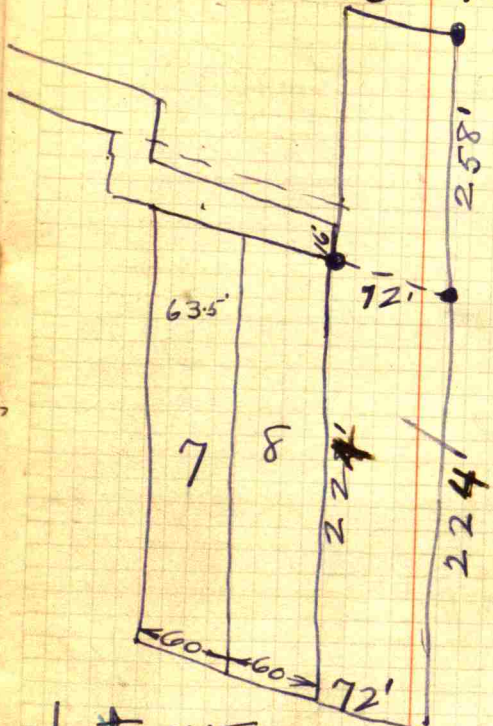
pt NE 45 W 4-11-16-1 East

Begin on W line of Q & intersection of N line
College Ave. in town of B.B. then in W
direction on S N line College Ave 4 Rods
Five links. Then N to corner of 2+6 Road.
Then S 68 1/2° E along center of railroad.
4 rods 5 links. Then S to N line
College Ave. 3/4 Acre

142 71 sq ft to
Hazel. Baker

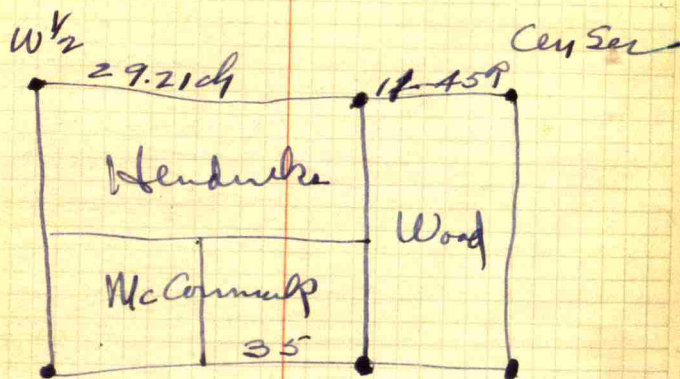
See 11-16-1E

17



Lots 7+8 are 200' measured at
right angles to street

I almost add College Ave
S 71° 24' W
alley 70° 19'



Moon Road

Umm Tip.

F. P.
SpanglenC. W.
Ratcliff

John E Leach

160 P

80 P

C C + C A.
Kennedy

100 P

Jobif
Moon

80 P

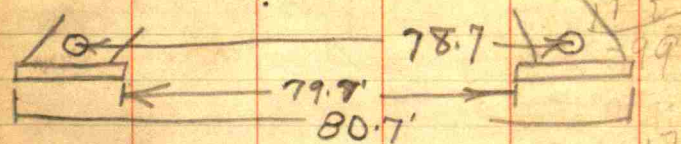
Maude

C. W. Ratcliff

80 P

140

1980
 Clarks Creek
 Old Bridge



16' | 16' - | 16' | 16' - | 16'

End Posts 2-6" C's + 1-9"x $\frac{1}{2}$ " C.P. (21' long)
 Top Chords same - 48' Long -

4 Floor Beams - 4 $\frac{1}{2}$ " x 1'-4" x 18'

~~4 Intermediate posts - 4 $\frac{1}{2}$ " x 1'-4" x 18'~~

Clear Roadway 16'-0" OW 18'-0"

4 Intermediate posts 4-2 $\frac{1}{2}$ " x 2"
 B - 16' Long - Lateral Bars

167.75
 150.40
 17.35
 28.60
 424.75

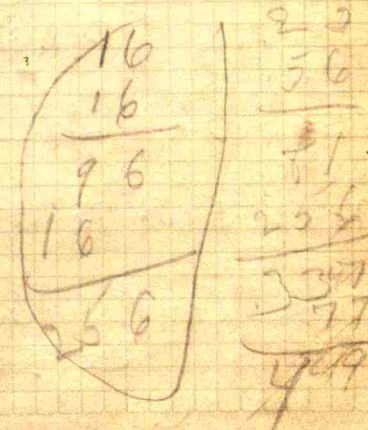
114
 95
 570
 127
 4160

256
 97 11x17 $\frac{1}{2}$
 12
 492 14x6

199
 1792
 59 17 $\frac{1}{2}$ 3 6.5
 48
 1125 2 256
 77 7
 1192
 149 6.5 315

192 1
 122 2
 305
 155
 95
 525

167.75 w.p.
 150.40 w.p.
 17.35 w.p.
 28.60 w.p.



26

Clarks Creek

Sta 0+00 Stake

Stk 572°E 20'
Stk N72W 20'

Def L 28°42'

Sta
5+50 StakeHedge ^{Stake 20'} post 20'
Dy R. 10°-06'6+43 Culvert 42" B.P. L=28'
15'-W and 13'-E of \perp

6+58 Stake

Stk 20'
Stk 20'
Dy R 3°20'

7+03 Stake

Dy L

Stk 20'
Stk 20'

9+22

Send Steel B.

Dy L 47°53'

10+01

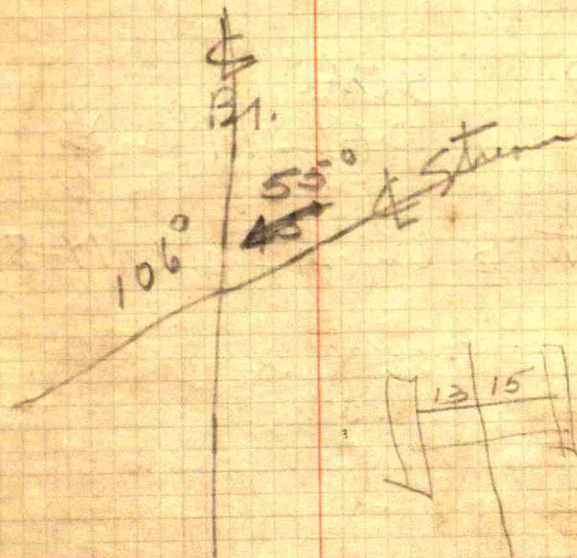
Cen V end Center.

~~Dy L 47°53'~~

Dy L 10°02'

27

Bearing line S-28°W

All witness stakes
at rt. ls to Back sight

Colarke Creek

Sta
15+67

Stk
by R 19°-20'

Sta
22+20

Stake
by L 19° 30'

Permits S line on E side 19+80.

Center stake at 15-15 80' E of
E Bank

Center stake at 15+67 is —
15 Feet East of E Bank

at 16-15'

at 17-10'

at 18-76'

at 19+00'

at 20 125'

at 21 ~~2~~ 125'

at 22-150'

22+20 —

Clarks Creek.

Levels m d &

New Sta

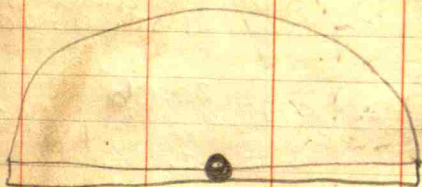
E

0-100	101.00 ✓	
0+00	100.60 ✓	
1+00	95.94 ✓	
2+00	89.45 ✓	
3+00	87.20 ✓	
4+00	86.95 ✓	
5+00	86.80 ✓	
5+50	85.60 ✓	
6+43	79.95 ✓	
6+58	79.50	Stream Bed E 72.30
		" " W 70.30
7+00	77.70 ✓	
8+00	78.50	
9+03	81.10	Sta 9+22 81.90
10+01	81.80	Stream bed old Bl. 68.80
11+00	79.30	" " New Sta. 67.20
12+00	78.45	
13+00	78.25	
14+00	78.20	
15+00	77.60	19+00 79.35
15+67	78.25	20+00 79.55
16+00	78.80	21+00 79.60
17+00	79.00	22+00 79.58
18+00	79.00	22+20 79.50
		23+00 79.50

BM No 1 — El 100.00Witness stake - Wide
road at Sta 0+00BM. No 2 El. - 80.05End. of SW wing of bridge
abutment. 6BM No 3

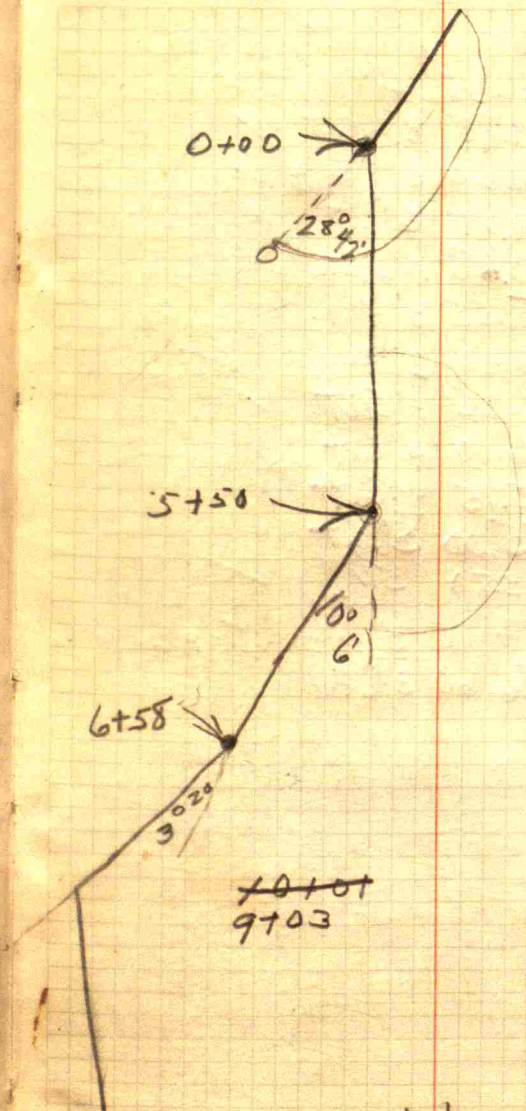
90.42

Turning point for stream
75.10



$$\begin{array}{r} 714 \\ \underline{29} \\ 649 \end{array}$$

$$\begin{array}{r} 707 \\ \underline{294} \\ 2180 \\ 2080 \\ 200 \\ 67 \end{array}$$



New Rd

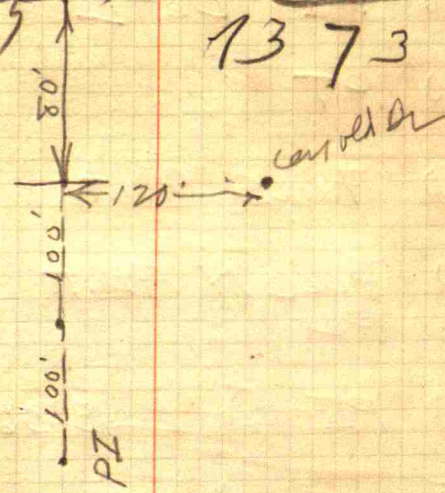
0-100	101.00	102.00	1' Cut	✓
0+00	97.85	100.35	2 1/2' cut	✓
0+50	96.28	99.78	3 1/2' cut	✓
1+00	94.70	101.20	6 1/2' cut	✓
1+32	93.69	99.69	6' cut	✓
1+80	92.18	90.68	1 1/2' fill	✓
2+00	91.55	88.55	3' fill	(88.50) ✓
3+00	88.40	86.40	2' fill	✓
4+00	85.25	86.25	1' cut	✓
5+00	82.10	86.10	4' cut	✓
PC 5+30	81.15	85.15	4' cut	✓
5+65	80.00	85.00	5' cut	
PT 6+30	79.30	73.80	5 1/2'	✓
cut 6+50	79.40	fill	3" above Top E Hand	✓
PT 7+30	80.00	76.60	3 1/2' fill	
SA 8+30	81.70			
8+70	82.00			
9+10	81.70			
PC 10+10	80.20			
PI 11+10	78.90			
PT 12+10	78.12			

27
37
64
25
37 1/2
69

62

84
62
2 | 146
73

48
37
85
62
83
2 | 147
73



0+00 PC same. continue N28°E
to P.I. at

0+50 Def L 26°15'

1+00 P.T. L 20°30'

5+30 PC

6+30 PI Def L

7+30 PT

8+30 Face S. Abut.

9+10 Face N Abut.

10+10 PC

11+10 PI Def L 13°56'

11+88 Intersect old road.

12+10 str.

6 $\frac{2116}{5}$

21470 P.I. End
Plainfield Pass

Wed	175'	-	166 sacks
Thurs	269'	-	530 sacks
Fri	294'	-	403 sacks
Sat	160'	-	333 sacks

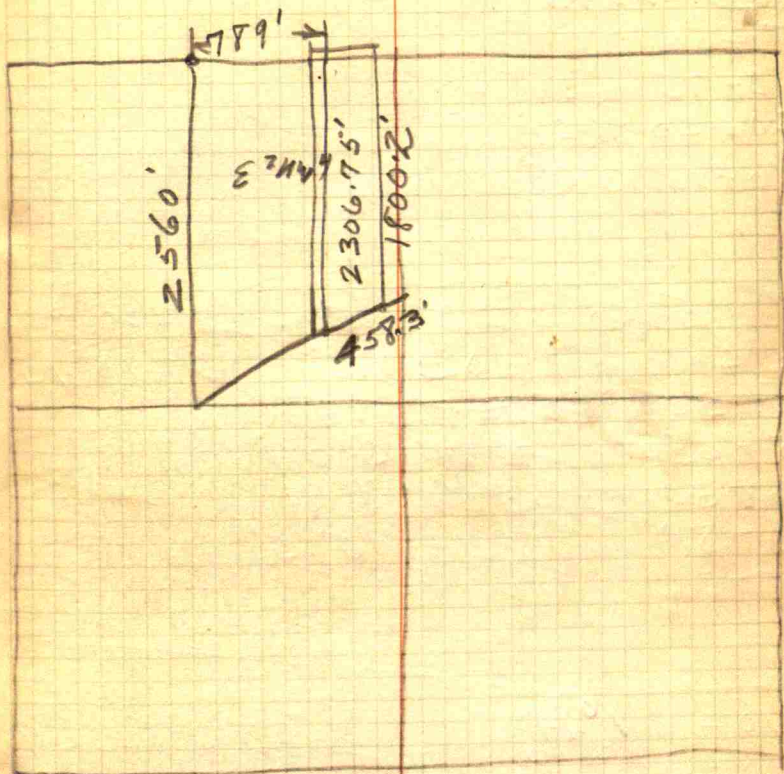
1354
 $\underline{716}$
 638

$17\frac{1}{2}$

40

41

789' from W. line School St. to Cen.



$$\begin{array}{r} 46 \overset{120}{58} \\ 10 \\ \hline 4178 \\ 44 \end{array}$$

$$\Delta = 26^{\circ} 15'$$

$$PT1+00 \quad 3^{\circ} 17'$$

$$D+75 \quad 6^{\circ} 34'$$

$$PT0+50 \quad 9^{\circ} 51'$$

$$D+25 \quad 13^{\circ} 08'$$

$$S+30 \quad 200' \text{ Curve } \Delta = 20^{\circ} 30'$$

$$PV \text{ Def run } \Delta = 03.075' \quad D = 10^{\circ} 15'$$

$$S+30 \quad \del{178} / 54' \quad 1^{\circ} 48' \quad \textcircled{1}$$

$$S+65 \quad \del{178} / 54' \quad 5^{\circ} 07' \quad \textcircled{2}$$

$$6+30 \quad \rightarrow 3^{\circ} 51' \quad 7^{\circ} 41' \quad \textcircled{3}$$

$$6+80 \quad 10^{\circ} 15' \quad \textcircled{4}$$

$$PT7+30$$

$$10+10 \quad 1^{\circ} 44'$$

$$10+60 \quad 3^{\circ} 28'$$

$$11+10 \quad 5^{\circ} 13'$$

$$11+60 \quad 6^{\circ} 58'$$

$$12+10$$

	Pednl	Peanut	Dick.
1	10	12	7
2	10	10	6
3	20	26	9
4	14	19	6
5	6	10	5
6			8
7			7
8			5
9			5

155
70
25

29
29
58

58
4
22.5
2.9
2025
250
45.25

49 $\frac{7}{7}$
25
without
curb
200
my face
66 5PM

Plamfield street
Cement 70

1st day = 194 lin feet curb
gutter - 30 ft without
curb = total cement
2d day 270 linear ft 1153.5 bags
25 ft without curb 273 bags
3d 225 ft 22 without
curb 58 bags

~~2~~ 1st
1st cut set = 4 bags
bridge enter + sidewalk = 19 bags
14

2nd
cur street intersect
185 ft curb gutter
22 ft with
curb

5. 120 ft curb gutter = 31 bags
57.5
2 40 ft curb
gutter

Sat.

23 ft. gutter without curb
194 ft curb & gutter

52 bags

mo gutter 298 cu ft curb
or 298
2 30 without
curb

3 intersections (2 walks
sewers alley - 1st street
gulfport thru)

427

427.75 cu ft
or 15.73 cu yds
86 bags

58 cu
x 11 units

64 bags

58
50
835 290

64 bags +
2 intersections

4
2 638.
1666

3818
3818
3828
638
106905 cu ft
or 3.93 cu yds

638 cu ft
or .375

31.90
44.66
1914
2392.50 cu ft
or 8.86 cu yds
base

5 8.86
27 239.25
45 210
3 232
216
105
165

Fri

107 bags

105 bags sat - 130 ft
curb gutter pavement

mon and
tuesday 380 ft
curb and gutter

30 + 4 ft radius of drive

29
29

490 bags = day 116

Pavement Wed
75 linear ft
166 bags

curb gutter turns
2 at street 2 north at 1st

31 bags

6 1/2

21

166 2617

647

1929

6.4

6.4

3268

250

384

4 296

26

269

75

294

160

185

300

4

6.4

5 1507

hypotenuse

hypotenuse

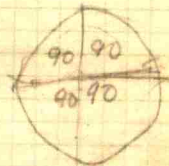
26.5

6.5

326

390

4226



360

3

116

25

41

41

41 28

269

75

294

160

185

3 300

2
63

E 50 NW corner Sec 26.

Stone - 1 mi N. of Plainfield
Witnesses - Del. pole N 15° E 28.5'
Cov. post S 45° W 22'

40 ch 38 links from mile
stone to 1/2 mile stone.

1/2 mi. stone to point on R.R.
Bridge 4 ch. 33.16 links

Stone set - Cov of Secs 27-26-34-35

Witnesses: S.W. cor of brick foundation
of house E. 47.0'

Fire plug - S 30° W 62.0'

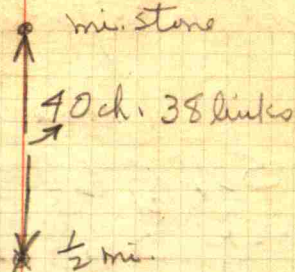
Iron pin driven at the N. edge
of brick street intersection 34.8'
S of stone. 40.5' N of the center
of the National road

Witnesses: Edge of concrete
slip W 10.8'

Edge of concrete slip E. 10.8'

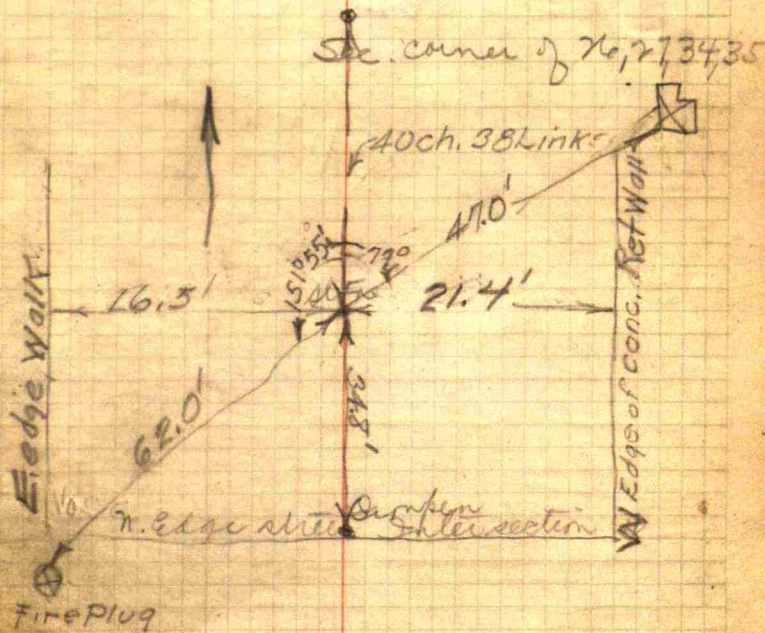
See page 59

E 51



See BK 202 p. 22

44.05'

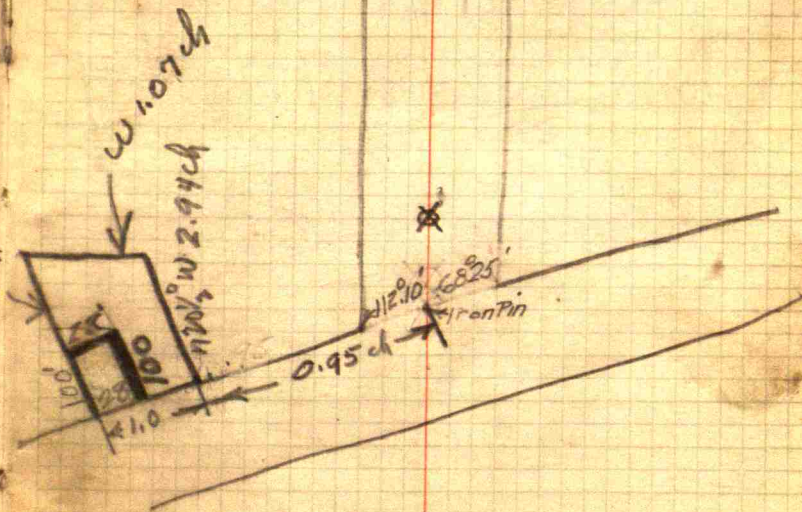


Ellis to Polar Ice Co.

Beg. on N line Nat road 95
 Ch. SW of E line Camb road ¹⁰⁰
 thence $S 68^{\circ} 10' W 21.54'$
 thence $N 22^{\circ} 43' W 100'$ - thence
 $N 72^{\circ} 11' W 25.5'$

$$\begin{array}{r} 95d_n = 62.7' \\ \quad 21.54 \\ \hline 84.24' \end{array}$$

$S 20\frac{1}{2}^{\circ} E 3.33'$



NW cor Sec 35

40.38 ch

W 2 mi SW 35

Hornady Reed
 Ellis in SW corner

Pole to house to Indian Ref Co.

Buy at point on W line road
 84.24' S W of E line sec
 Then N $22^{\circ}43'$ W 66'. Then
 easterly to a point 35 feet
 N of N line of Nat Road.
 Thence S-35' to pt
 21.54' SW of E line of
 said sec 34. Thence
 Southwesterly 62.7' to bay

279

1000

750

 500

1354

175

 1279

1000

 279

 279

26

299

10

 269

about 58
1922

James Baldock bought
this property from
Harry Harker. Harker
bought it from B.F.
Ellis

about
1910

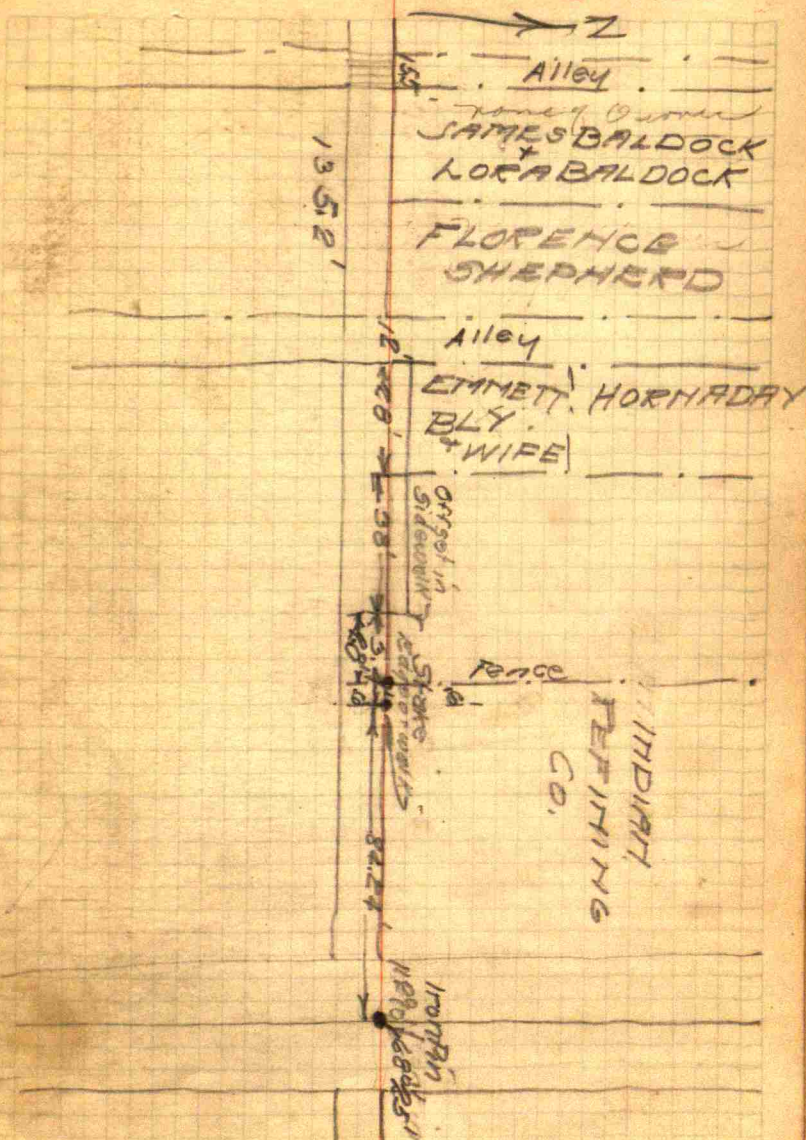
Florence Shepherd from
Jules Henry?

about
1915

Bly from Addison
Hobby estate

76
58
18

59



From NE corner to NE
corner of Spanish lines. 632'

28' offset.

Measuring from the NE
corner S. 8.49 ch. leaves an
overrun of 14'

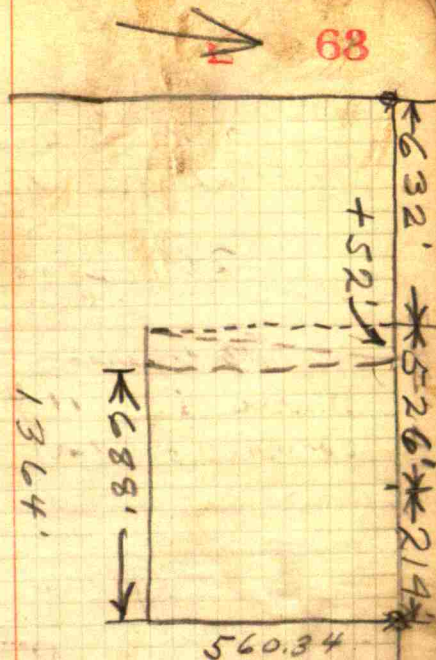
41.57

66
24792
24792
272712

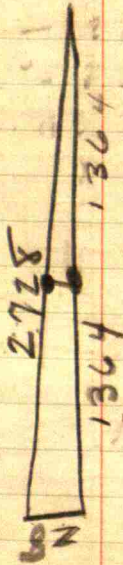
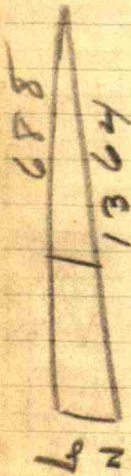
41.57
66)2744.0
264

104
66
380
330
500
462
38

1364



1364
560.34



$$28 : x = 2728 : 1364$$

$$2728x = 1364 \times 28$$

$$x = \frac{2728}{2} = 14$$

$$\frac{688}{1364} \text{ of } 28$$

$$28 : x = 1364 = 688$$

$$1364x =$$

$$\begin{array}{r} 688 \\ 481.60 \end{array} \quad \begin{array}{r} 14 \\ 12 \end{array}$$

$$\begin{array}{r} 1406 \\ 1364 \\ 420 \\ 34 \\ 790 \end{array}$$

$$1364 \begin{array}{r} 28.000 \\ 2728 \\ \hline 7200 \\ 548 \end{array}$$

$$\begin{array}{r} .0206 \\ 600 \\ \hline 12.3600 \end{array}$$

Spanish Amer. War Vet
tract out of John Gipson

A Def L $54^{\circ} 35'$ - Run

S $35^{\circ} 25' W$ - 279'

Def L $18^{\circ} 23'$ - and

run S $17^{\circ} 02' W$ - 179'

Def L $17^{\circ} 02'$ and run S
160.34'

Def L 90° and run
east - 400'

E - Def L $29^{\circ} 40'$ and

Run N $60^{\circ} 20' E$ - 361' to F

Def L $64^{\circ} 45'$ and run N $4^{\circ} 25' W$
110' to G

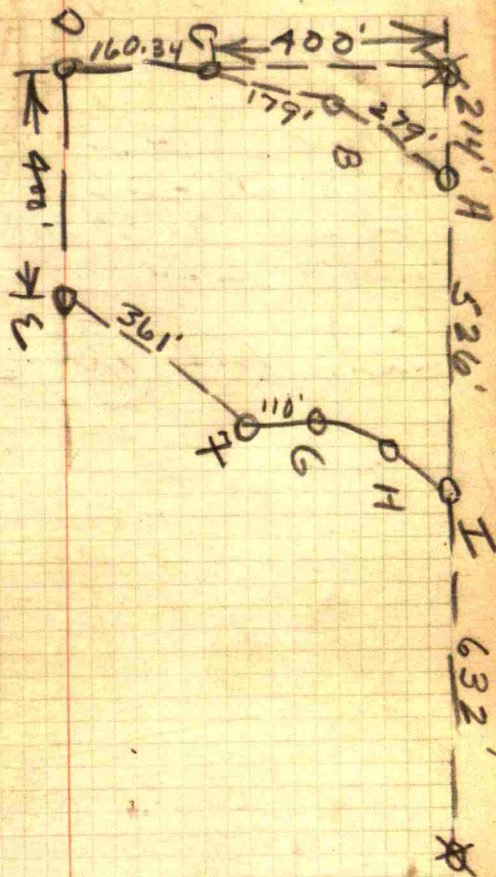
G - Def R $5^{\circ} 26'$ and run

N $1^{\circ} 01' E$ 167' - to H.

H - Def R $14^{\circ} 40'$ and run

N $15^{\circ} 41' E$ - 108' to I

L 69



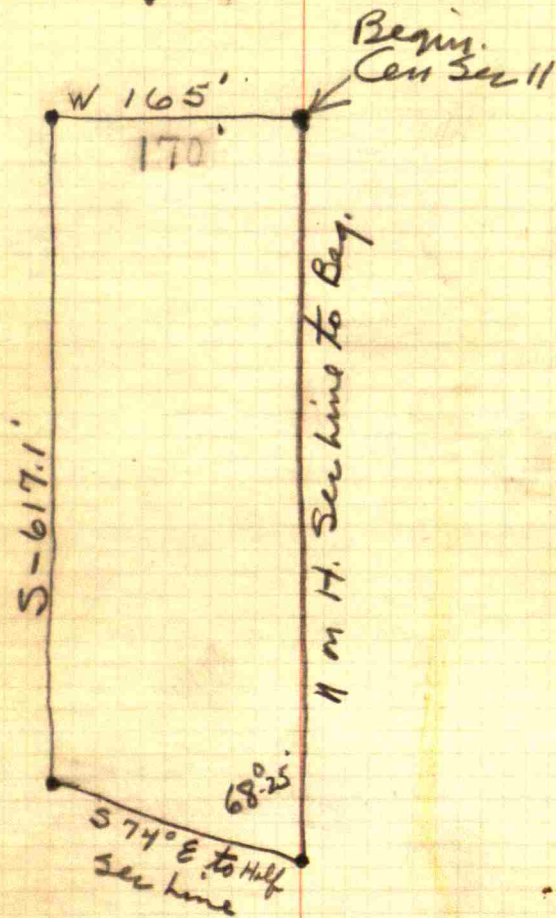
72

Exc. pt NE⁴/₄ SW⁴ and a pt SE-SW-11
 Beg at int of W line of Mt St in corner
 of O. with S line CCC+St-PP-
 N W with S line 130'-S || to W line
 of G. St 100'-SE || with S line of PP
 130'-to W line St. N with W line
 St 100' to Beg.

Celicia + Etta Avery

73

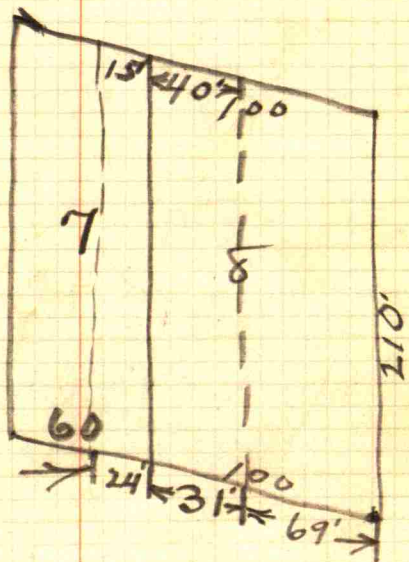
Survey for Nettie Lingenman (unmarked)



976

977

See page 97



Pansons Bridge

Bedstead

Rise 12'

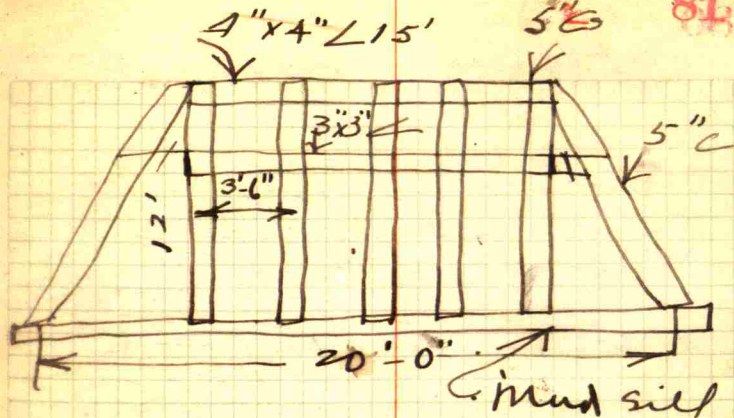
Span 24'

Roadway 20'

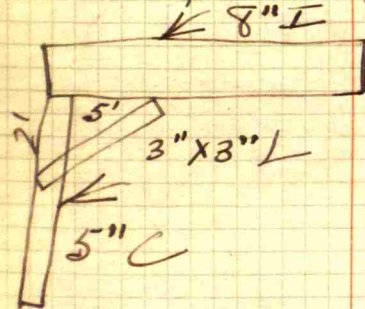
New str. Rise 12' span 24'
Roadway 20'. All wings at 45°

50' New Channel East of Bridge
to leave channel

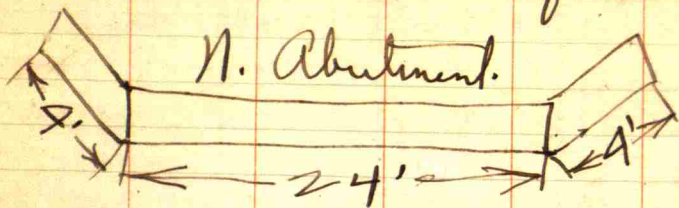
" " " "



5-8" I-beam 24' Long
Spaced 3'-6"



Kellums Guilford



Span present str. 12'-6"

Bed Stream to top N Abut 5'-0"

" " To Rdway 7'-0"

Increase Span to 16'-0"
 Extend NE and NW wings and
 NW SE and SW wings st
 back with Road.

Co Line Bridge

Clear Rdway 16'-0"
 9-6" I's - span 1'-10 1/2"
 in good condition -
 8 panels 18'-6" CC
 148'-0" CC end pins
 O.L. length 150'-0"

Morgan Co line
 New Block Floor

Parker No 1. Middle Tp

6' Half Circle Brick arch
 Flat Bottom, Hdwall curved in
 6' Bed stream to crown Road
 New Br. 10' span 4-6" Rise
 all Wings Straight with rd
 No skew.



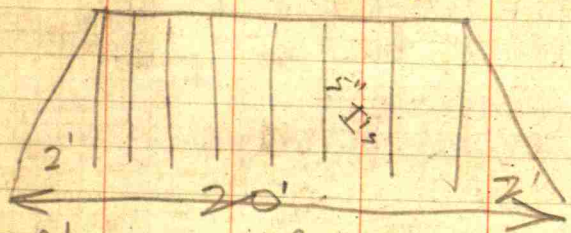
Parker Bridge No 2 Middle Tp

12' Span Half circle 6' Rise
 8'-0" Bed to Crown Road

New Bridge 12' span - all wings st.
 Bank - skew right 15° - center 6'
 E. of present structure

90

Masten Bridge No 2 (W)
 10' Span 7' Crown Rd. to Bed.
 Old Bridge Bedstead 10' x 16'



Alternate Plans add 8' to Head
 or replace with 28' Clear Rdway

Masten No 1

4' Bank Circle —
 6' Bed to Crown Road.
 Skew 20° L.W.F.

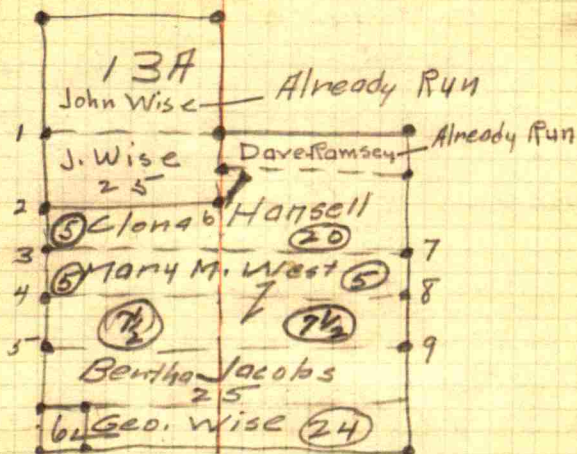
91

Notice } Bertha Jacobs
 Fillmore RR 1
 Geo R. Wise
 Coatsville RR 2

Notify John M. Wise
 Coatsville RR 2

Sec 18-14-2-W-

N

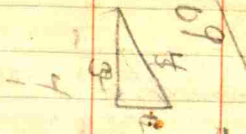


96

Royer - BROWNSBURG

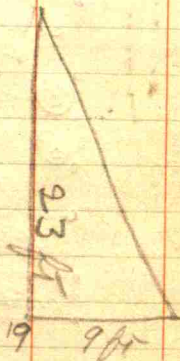
Pt. 6, 7 & 8 Bk. 11

Green's Add.

$$\begin{array}{r} 24.7 \\ 3 \overline{) 74.1} \\ \underline{72} \\ 21 \\ \underline{18} \\ 3 \end{array}$$


See page 77

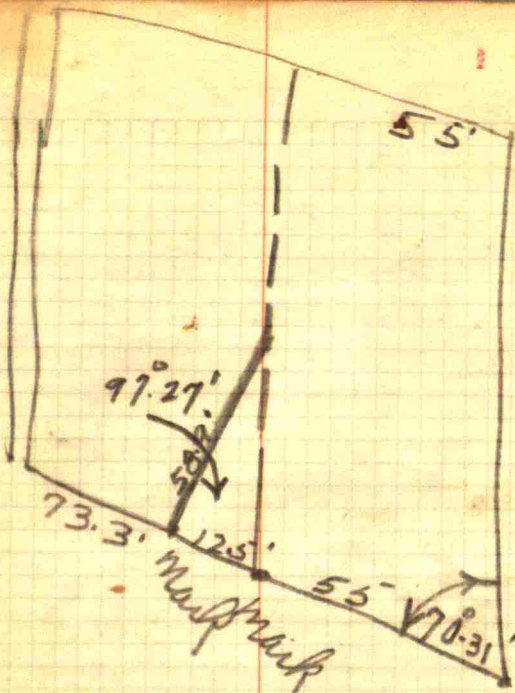
610

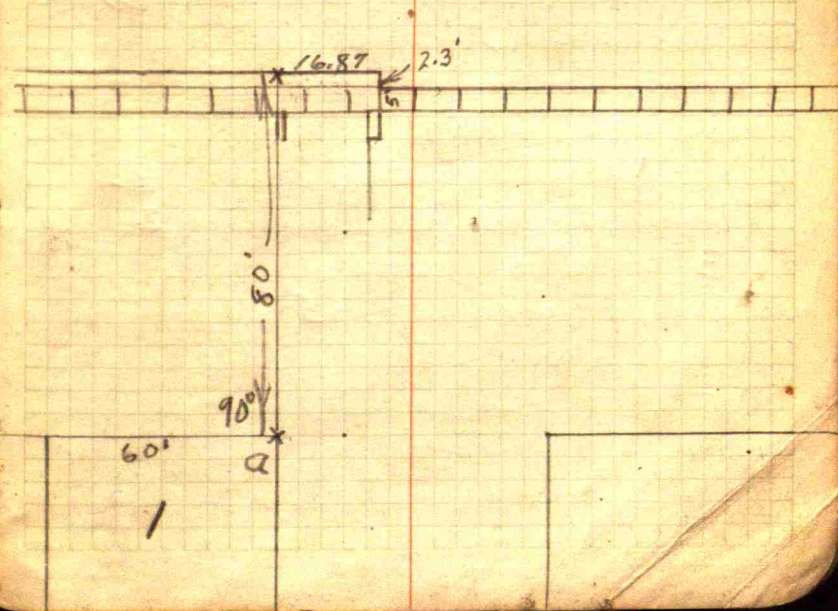


$$\begin{array}{r} 23 \\ 23 \overline{) 529} \\ \underline{46} \\ 69 \\ \underline{69} \\ 0 \end{array}$$

$$\begin{array}{r} 21.8 \\ 3 \overline{) 65.4} \\ \underline{63} \\ 24 \\ \underline{21} \\ 34 \\ \underline{30} \\ 44 \\ \underline{42} \\ 24 \\ \underline{21} \\ 34 \\ \underline{30} \\ 44 \\ \underline{42} \\ 24 \\ \underline{21} \\ 34 \\ \underline{30} \\ 44 \end{array}$$

97

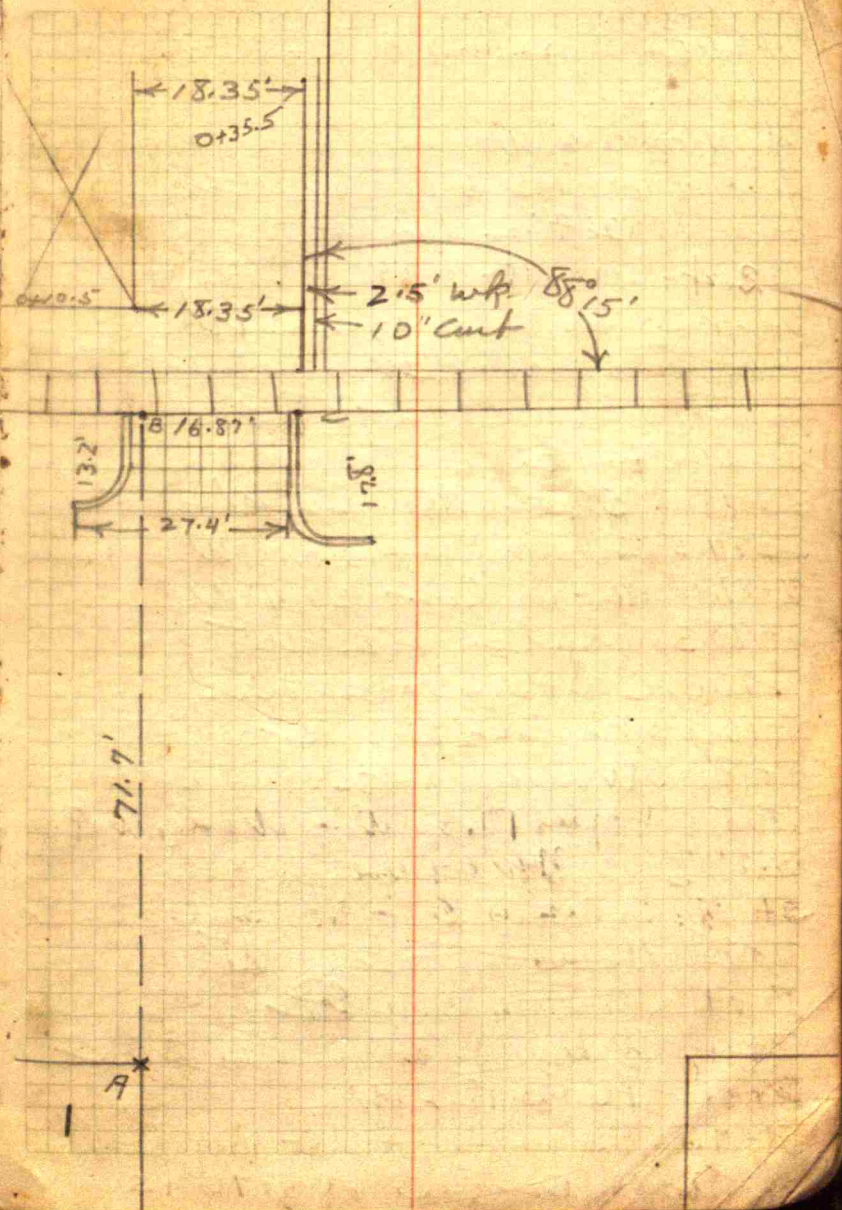




Plainfield NE ST

- √ A. NE cor Lot 1 BLP 8
- √ B. pt 71.7' N of A
- √ C. pt. ~~16.87'~~ 16.87' E of B at Int
S line w/p and E line E curb. —
Beg pt of Imp is 9.0' W of C.
- √ SE cor Res 18.35' W of Sta 0+10.5
Wedge 2.5' W/p is in line with E line
E curb at intersection.

- √ Sta 0+35.5 — Def R 35' Following 2.5' WR
- √ Sta 0+46.0 ^{SW} _{con.} Premit Res. 17.2' E
- Sta 0+80.5 End of Curb.
- Sta 0+72 — NE corner Res 19.65' W —
- Sta 0+80.5 — Def R 26'
- Sta 0+80.5 — 0+83 — 2.5' W/p E to Premit Res
- 0+85.5 — Pole W 18.7'
- 0+99 — NW cor Premit Res 20.4' E
- Sta 1+16.3 — Beg WR — 5.5' wide — 2.5' W
and 3' E of Base line
- Sta 1+41 ^{SW} ₁ cor Bay 23.5' W —
1+39 P.L. W.
- Sta 2+04.9 — S side E alley crossing
- Sta 2+79 — N side E " "
- Sta 2+04.4 — W/p 6' wide — 3.6' E and 2.4' W
of Base Line.
- Sta 2+20.8 — NE cor Main 25.5' W



$$\begin{array}{r} 2+18.3 \\ 26.4 \\ \hline 3+25.0 \end{array}$$

- 2+~~20.0~~^{26.4} - Base line intersects E edge E walk.
- 2+22 pole 6" W
- 2+24 - pole 19.6' W
- walk at 2+36.8 is 5' wide
- 2+~~26.4~~ - Def - R - 6° 38'
- 2+24 SE cor yard fence 23' W
- Base line follows E side E walk 5' to sta 2+26.4 - 2+98.3.
- 2+79 - F.L. E
- 2+79 - SE cor Res 22' W -
- 2+77.5 Cor Res Proj - 20.15' W
- 2+87.5 offset cor Res 37.4' W
- 2+98.3 Maple 18.65' W
- 2+98.3 C.O. Plug - on Base line
- 2+96.3 SW cor Res 10.3' E **Rickett**
- 2+98.3 SEW cor porch 5' - ~~at~~ - against walk
- 3+25 Maple 17.5' W - W edge walk
- 3.2' E. NW cor porch 8' E
- 3+28 - Cor Res 14' E - offset cor 30.6 E
- 3+38 NE cor Res - 27.4' W
- 3+41 Cor Res 30.6' ~~E~~
- 2+41 Wedge end of walk and beg st 2nd 5' E
- 3+49 Maple 18.2' W
- 3+76 End crossing E side - Beg 5' W W
- E. Side - Base line at 3+76 is

2' from E edge walk and 3' from W edge. SW cor Barlow property is 3' E. Base line sta 3+76

4+02.5 - Base line intersects Wedge Walk -

4+02.5 - Def R - 17+00

and follow Wedge Walk N -

4+05.5 - ~~Cor~~ Res 41' - W Ferguson

4+33 - P.L. W

4+60 - Maple 27.4' W

4+84 Maple 28' W

5+07 - Maple 28' W Res 40.4' W Cox

5+38.7 - S side alley W

5+55 Maple 3.4' W

5+75 Res 40' W - Simms

6+17.7 - 6+27.7 - Alley Cromy E

6+33 Res 38.5' W Calbert

6+43 Maple 27' W

6+88.5 - 7+01 - Alley Cromy E

6+88.5 - Fence W

7+26 - Slagle Res 40' W

7+68 P.L. W 8+33 P.L. E

8+33 - 8+50 Cromy W for Sch. H.

9+11 Sch H 175' W

9+56-9+66 steps to Sch House
 Sch # 125' W
 9+76 - SE cor Walk 31.3' W -
 WK is 5' wide - 9+81 - 9+96 alley
 West
 9+76 - pole 1-W and 31' W' X
 Curb in front Sch. H. sta 8+50
 - 11+27.5 2' E of Wk.
 10+26 - Res 37' W Reed.
 10+40 Maple 23.5 W Fence 31.5 W
 10+50 Maple 23.5 W

11+27.5 Dry R. 20' - End Wk
 and curb - Curb E ~~Sth Street E~~
 S. side 15' Ally W
 11+27.5 Fence 32.8' W
 11+24 - 11+67 Tile under E street
 11+27.5 - 11+59.5 Street E - 4' Wk Begun
 11+59 at base line
 11+63 - 11+67 Wk E from Wk
 11+69 Res 50' W Swan
 11+98 Maple 30' W
 11+42 Tel pole 32' W
 11+81 Maple 24.4' W

11+89 - Res 18.5' E Mendenhall
 12+22 Res 40' W McCullough
 12+39 Res 11.7' E Mendenhall
 12+56 Fence 32.5' W
 12+52 Tree 31.5' W
 13+04 Tree 30.5' W
 12+80 - 13+30 Res 7' E Mendenhall
 13+19.8 End Wk
 13+32-47 Alley Army Regt E
 13+49 - End Parapet walls
 13+54 - 67.5 - slab
 Por Walk 24' long - 34' Rdway
 Inside Face E Wall is 4' E
 of Base Line

13+54 - S. side slab

	Base		+	-
0-132	99.72			97.72
0+0	99.77			98.92
0+355	99.39	2.5 wk 99.40		99.47
0+50	99.57	99.65		99.65
0+80.5	99.96	100.02	cutting 2.5	100.00
1+00	99.96	99.96	2.5	100.19
1+50	100.32	100.30	Same	100.60
2+00	101.00	101.02	4	100.90
2+26.4	101.30	100.92	cutting 3.2	101.30
2+50	101.90	101.32	28	101.70
2+98.5	103.05	102.13	1	102.80
3+58. Centering	103.36		8.7	104.05
4+02	104.25	103.93	1.9	104.36
4+50	105.06	104.43	3.2	105.15
5+00	105.85	105.00	2.5	105.62

17.3
99.30

99.12

18.3
99.5219.7
99.8321
99.7019.4
100.3021.9
101.0521.8
101.2520.7
101.4015.8
102.2518.1
102.6620.4
103.8424.5
103.5534.5
104.5623.9
104.0926.8
104.5023.2
104.6327.3
105.77B.M. 100.00
End Curve

5+50	Base 10659	3.7 10570	4 11.4 106.00
6+00	10715	4.1 10570	2.6 106.52
6+50	10773	4.6 10582	13.7 106.65
7+00	10720	4.8 105.51	13.5 106.20
7+50	10617	4.7 10470	14.5 105.15
8+00	10492	3.1 104.00	13.8 104.60
8+50	10395	2.4 10390	12.7 104.60
9+00	10366	1.8 10330	11.4 10396
9+50	10348	1.6 10313	10.6 10342
9+88 Cap W	10324	2.4 10280	11.3 10318
10+00	10313	2 10270	11.5 10323
10+50	10287	1.8 10250	11.7 10342
11+00	10260	1.9 10217	12.7 10340

2219	W. in ally 22.8 105.90
105.60	27.5 106.77
21.8	26.9 107.20
105.95	29.4 105.80
22.8	29.6 104.40
105.60	31.8 103.10
24.1	34.2 103.40
105.15	34.3 103.05
24.8	32.5 103.15
103.95	28.3 102.65
23.5	31.6 102.25
103.07	31.3 102.25
26.8	31.3 102.25
103.50	31.7 101.75
26.5	31.3 102.50
103.25	
19.9	
102.85	
21	
102.55	
23.5	
102.37	
26.1	
101.80	
28.7	
101.75	

W. in ally
102.46

E

End Wp
 11+27.5 102.60
 11+39.5
 Const 103.16 7.6 103.00
 11+61 End Wp
 102.83
 12+00 103.16 3.2 101.41
 12+50 103.10 3.5 101.63
 13+00 103.40 3.1 101.75
 End Wp 103.65

12"
 101.50 7L Tile E side
 Sta 13+26
 101.10 7L Tile W side
 Sta 13+44

H.G.
 13+54 103.92

17
 103.90

20.3
 102.50

33.4
 102.70

25.7
 102.00

33.7
 102.40

25
 101.90

28.8
 102.50

25.2
 101.40

27.6
 102.30

- FL at B1. 99.85
 - FL at B1 99.85
 W. End W. Waef 105.85
 104.6
 103.90

15
21

Fairfield St Improvement

Sta	E. St.	W. St.	WD	ED	
13+54	10380	10425			99.85
13+29	10334	10325	10135	10333	99.93
13+04	10406	10295	10145	10240	100.06
12+79	10395	10280	10141	10280	100.09
12+54	10370	10296	10175	10194	100.45
12+29	10367	10265	10175	10184	100.25
12+04	10360	10278	10196	10177	100.33
11+79	10337	10267	10229	10182	100.72
11+58	10322	10281	10234	10263	100.47
11+28	10290	10299	10222	10281	100.27

Top curb

13+54
13+29
13+04
12+79
12+54
12+29
12+04
11+79

BM
705.85

Stakes are 4' E
and 5' W of curb

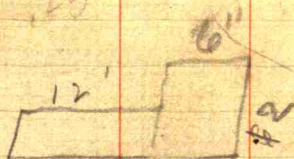
BM 10521
w' retained
at first step
to grade school

Intersection
at 10 curb 103-11
end water meter
103.26 -
mid way 103
1' fall from
back 1.3/4"

curb wall?
103.07
BM

Ly with	Top surf	Stk
114		
11+25	102.37	2d
11+50	102.62	2d
BK 11+75	102.37	2d
12+00	102.61	2d
12+25	102.85	2d
12+50	103.09	2d
12+75	103.33	2d
13+00	103.57	2d
13+25	103.81	2d
13+50	103.89	2d
13+54	103.90	2d
11+25	102.37	2d
11+00	102.51	6" ↑
10+75	102.65	6" ↑
10+50	102.79	6" ↑
10+25	102.93	6" ↑
10+00	103.07	6" ↑
9+75	103.21	6" ↑
9+50	103.35	6" ↑
9+25	103.49	6" ↑
9+00	103.63	6" ↑
8+75	103.77	6" ↑
8+50	103.91	6" ↑
8+25	104.05	6" ↑
BK 8+00	104.19	6" ↑
7+75	104.46	12" ↑
7+50	104.93	

.01 To Foot Rise



72⁷⁸
78

12 x 6 1/2
72
6

129 ft

10
cu. ft

8 1/2
%

103.25
8

103.33



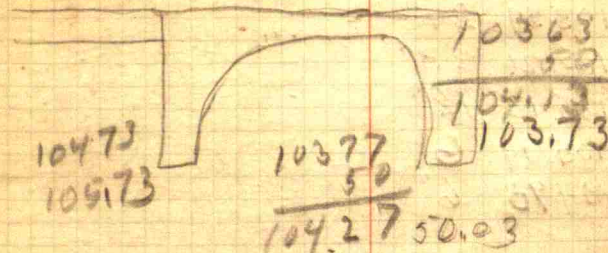
10419
50 22 9+50

104169 10349
50

.22 11 99

.24
2.68

19



10473
10473

10377
50

104.27 50.03

105.75
104.73
1.02

104.73
1.58
105.73

10446
50
14496

10446
50
10496

95
22
105

10391
50
10441

12
102
10409
50

10455
22
110 725

10419
50
10469

116

Sta.	Top Curb	Stk
7+25	105.00	18"
7+00	105.29	24"
6+75	105.54	30"
6+50	105.81	24"
6+25	105.70	24"
6+00	105.59	24"
5+75	105.48	24"
5+50	105.39	24"
5+25	105.26	23"
5+00	105.15	12"
4+75	105.04	6"
4+50	104.93	6"
4+25		

87 to sub grade
 10.
 150
 10650
 54
 27
 81

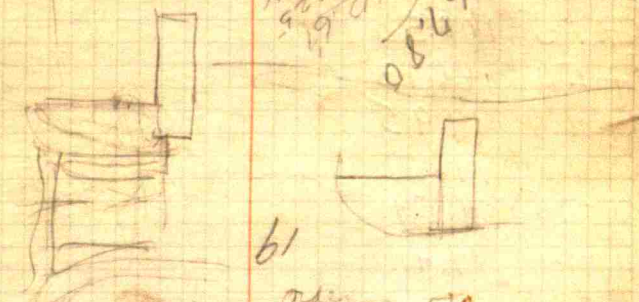
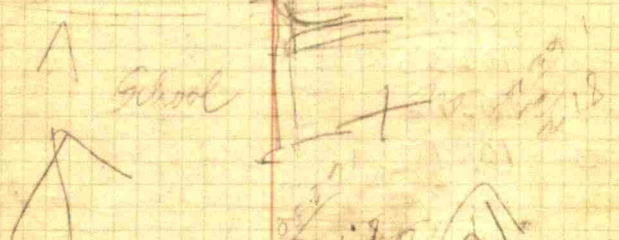
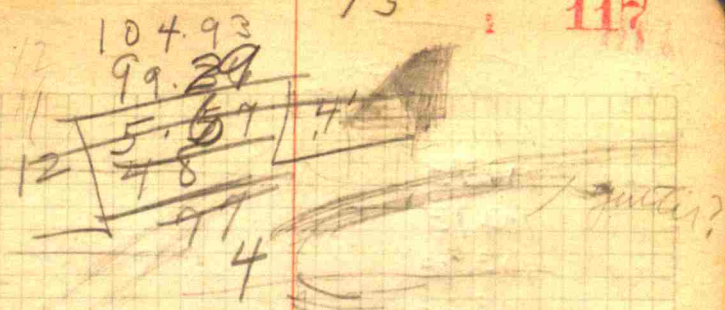
✓
 ✓ X
 ✓ 4+50
 is this grade break
 safe to grade down
 walk?

curb and gutter
 grade to south

1.52	134.51	33.55
33.56	67.19	134.34
35.08	67.19	167.80

73

117



104.93	47	138.1
99.29	47	19.2
5.67	47	17.1
48	47	19.2
84	47	17.1
76	47	19.2
77	47	17.1
76	47	19.2

Sta	Top Cont	Stake	32	62	84
4+50	104.93	117			140
4+25	104.53	✓ 12		100.66	
4+00	104.13	✓ 5			42
3+75	103.73				
3+50	103.33	75 60 = 25			
3+25	102.93	5 12		105.81	
3+00	102.53	93		104.13	
2+75	102.13	2793			
2+50	101.73	117.27	25	1.68	
2+25	101.33	1.200			
2+00	100.93	0.20 3	.40	$\frac{8}{2}$	$\frac{1}{3}$
1+75	100.53	5 40	12	40	5
1+50	100.13	40 8 93	68	8	
1+25	99.95	08	16	12	
1+00	99.77		109		
0+75	99.59			.68	
0+50	99.41		.19		
0+25	99.23	3		96	40
0+00	99.05				

1 99.59
 16
 99.75 28

10053
 10013
 9995
 18

Sta	Top Cont	Stake	32	62	84
1861	104.13	102.93	100.0	23	13
	104.13	104.93	1.20		
	102.93	100.23			
			4.80		
					$\frac{1}{5}$
					$\frac{1}{3} = \frac{1}{2}$
					100.13
					99.05
					1.05
					4
					98.21
					87
					99.08
					87
					104.06
					101.33102
					100.93
					104.93
					40
					104.06
					101.17
					100.93
					101.64
					100.66
					102.11
					102.58
					103.05
					103.52
					103.99
					99.36
					87
					100.23
					5.70
					1475 = 10053

119

1 1

2 2

3 4

4 8

5 16

6 32

7 64

8 128

9 256

10 512

11 1024

12 2048

13 4096

14 8192

15 16384

16 32768

17 65536

18 131072

19 262144

20 524288

21 1048576

22 2097152

23 4194304

24 8388608

25 16777216

26 33554432

27 67108864

28 134217728

29 268435456

30 536870912

31 1073741824

32 2147483648

33 4294967296

34 8589934592

10349

37

~~10349~~

28 —

29 —

30 —

31

hypotenuse

7.81

7.81

5 781

6048

487

523

4785

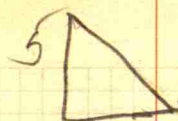
782

3925

6300

5495

416425



6

25

36

61

61

61

61

61

61

61

61

61

61

61

61

61

61

61

60.7961

8 64

8 64

7 49

7 49

4 7.7

7.7

5.39

5.39

5.39

5.39

5.39

5.39

5.39

5.39

5.39

138

top 3 sacks cement
to 8.1 cu ft gravel
(8.07)
4 sacks 11.1 cu ft gravel
(11.07)

base course

109 13
10293

1
up 3
3
3

2
2

1.84 barrels per cu yd 141

7.35

25 1.84

175

90

75

150

1460

3

1160

7.35 sacks per cu yd concrete

7.35 to 27 cu ft concrete

3 sacks mix

 $\frac{3}{7.35}$ of yd concrete

.408

.11 of yd

7.35 300.0

2970

6000

5880

27

.41

27

1.08

11.07 cu ft

3 sacks mix

11.07 cu ft concrete

11.07 cu con
= 3 H cement

8.07 cu ft gravel

for top

142

1

1 143

$$\frac{9}{100}$$

$$\begin{array}{r} 5.4 \\ 125 \overline{) 135.} \\ \underline{125} \\ 100 \end{array}$$

5.4 sacks per yd

Base

3 bags - 14 cu ft gravel

top = 3 bags =

6 cu ft sand

79 cu ft gravel

12 ft cm

$$\begin{array}{r} 60 \\ 60 \\ 17 \\ 5 \\ 5 \\ 5 \end{array}$$

$$\begin{array}{r} 100 \\ 69 \\ \hline 31 \end{array}$$

5.4 bags cu yd

$$1 \quad 5.$$

$$\frac{1}{5.4}$$

15

3 sacks mix 1.56 of
a yd concrete

or

3 sacks mix

3 sacks mix

$$427$$

$$.56$$

$$16 \sim$$

$$\frac{135}{3}$$

$$15.1$$

2 cu ft concrete

$$12.12$$

cu ft gravel

$$\begin{array}{r} 1000 \\ 779 \\ \hline 221 \\ 155 \\ \hline 40.6 \end{array}$$

base ~~78~~

$$25. \sqrt{1.35} \text{ bags}$$

$$\frac{125}{100}$$

 $\frac{2}{5}$

6.04 bags

5.4 bags per cu yd

3 bags

~~54~~

$$\frac{3}{5.4}$$

27

$$\frac{135}{5}$$

$$\begin{array}{r} 2 \\ 5.4 \sqrt{3.000} \\ \underline{270} \quad 135 \\ 300 \quad 135 \\ \underline{270} \quad 14985 \\ 3 \end{array}$$

$$\begin{array}{r} 27 \\ 154 \\ \hline 108 \\ 135 \\ \hline 14.58 \\ 1573 \end{array}$$

$$\begin{array}{r} 27 \overline{) 42475} \\ 4 \quad 27 \\ \hline 3 \quad 154 \quad 20 \\ 4 \quad 135 \\ \hline 27 \quad 197 \\ 54 \quad 189 \\ \hline 85 \\ 81 \\ \hline \end{array}$$

.5403

$$\begin{array}{r} 7.36 \overline{) 400.00} \\ 3680 \\ \hline 3200 \\ 2944 \\ \hline 2560 \end{array}$$

total
 175 1.54 barrels per yds

$$\begin{array}{r} 7 \\ 3 \\ \hline 7.36 \\ 4.40 \cdot 7.25 \\ \hline 1.74 \\ 1.75 \\ \hline 90 \\ 75 \\ \hline 150 \end{array}$$

7.36 sacks per yd

$$\begin{array}{r} 27 \\ 41 \\ \hline 27 \\ 108 \\ \hline 1107 \end{array}$$

$$\begin{array}{r} 3 \overline{) 7} \\ 7.36 \overline{) 300.0} \\ 2944 \\ \hline 5600 \end{array}$$

3 bags 40 of a yard

$$\begin{array}{r} 27 \\ 40.1 \\ \hline 27 \\ 1080 \\ \hline 1107 \end{array}$$

$$\begin{array}{r} 10.8 \\ 14.60 \\ \hline 10.80 \\ 14.60 \\ \hline 14.60 \\ 4 bags \end{array}$$

10 ft cube
 gravel to
 3 bags cement

154

$$\frac{1}{8} \frac{7 \times 3^2}{8^2}$$

Subtrade

103.15

$$= 8 \frac{1}{3}$$

$$\begin{array}{r} 101.50 \\ .87 \\ \hline 102.37 \end{array}$$

 $\frac{1}{2}$

103.11

 $\frac{1}{2}$

4

1

 $\frac{3}{4}$ $\frac{1}{3} \times \frac{2}{1}$

4

96

$$8 \frac{1}{3} \div 3 \frac{3}{4}^6$$

 $\frac{5}{4} \div 7$

15

75

100

 $\div 9$

12

8

 $\frac{3}{4} \div \frac{3}{4}$ $\frac{1}{3} \div \frac{1}{2}$

75

9(100)

35

 $\times \frac{4}{3}$ $\frac{2}{6} \div \frac{2}{1} \frac{4}{9}$

18

12

8

 $\frac{1}{3}$ $\frac{4}{12}$

15

849

66

5094

5094

11

 $\frac{11}{12}$

15

11

26

560.34

155

$$\begin{array}{r} 8 \overline{) 10} \quad 12.5 \\ 30 \quad 0 \quad d \\ 100 \overline{) 50} \quad 5 \quad 700 \\ 10 \overline{) 10} \quad 12 \quad 60 \\ 8 \overline{) 10} \quad 12 \quad 56 \end{array}$$

104.19

.87

103.32

1.875

6 + 50 =

105.70

75

104.95

.87

102.05

13

102.18

105.82

102.65

13

102.52

5 (513)

102