

U. S. No. 508

FIELD BOOK



81

Mat Ahles

1971+

81

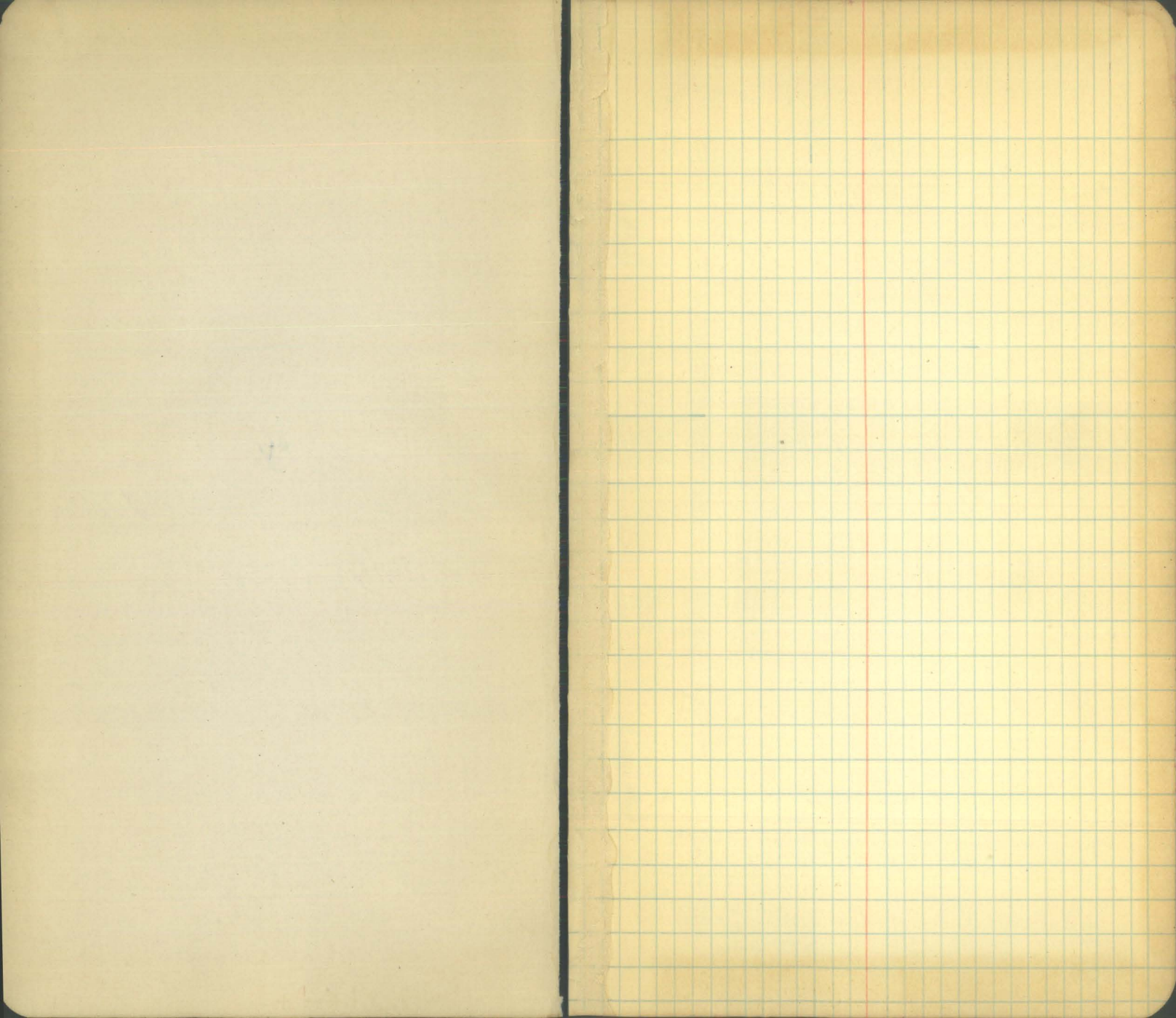
Jesup Phone -3213

19,962

Property of
Black Hawk County
Care of
County Engr



406



Index to Contents.

Pages

Raymond-Gilbertville Co. Rd.

Corner Stone Ties

1-2 ✓

Transit Notes

4-28 ✓

Prelim. X-Sections

30-53

Raymond-Gilbertville Co. Rd.

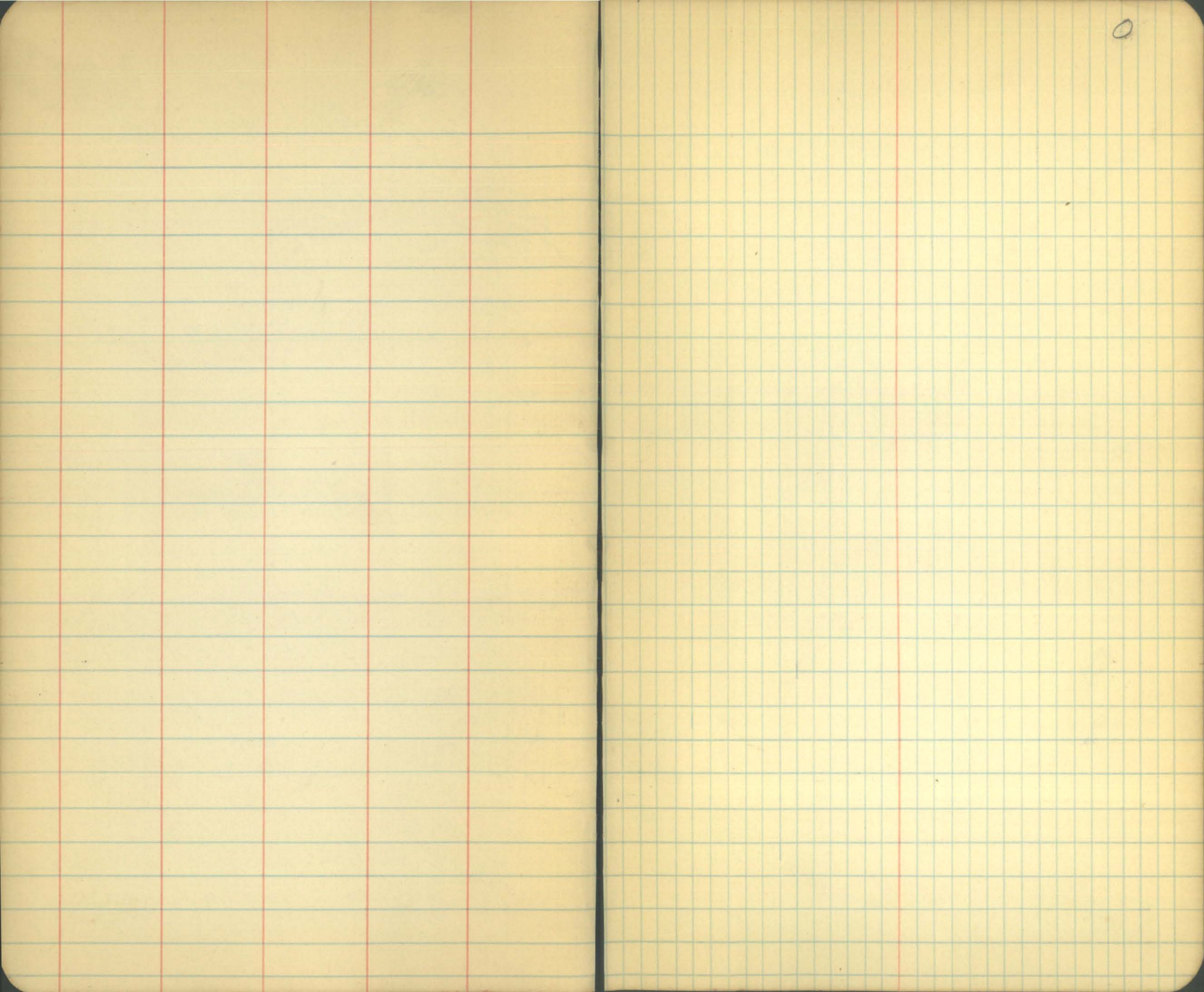
Levels & Cuts on 6" Tile

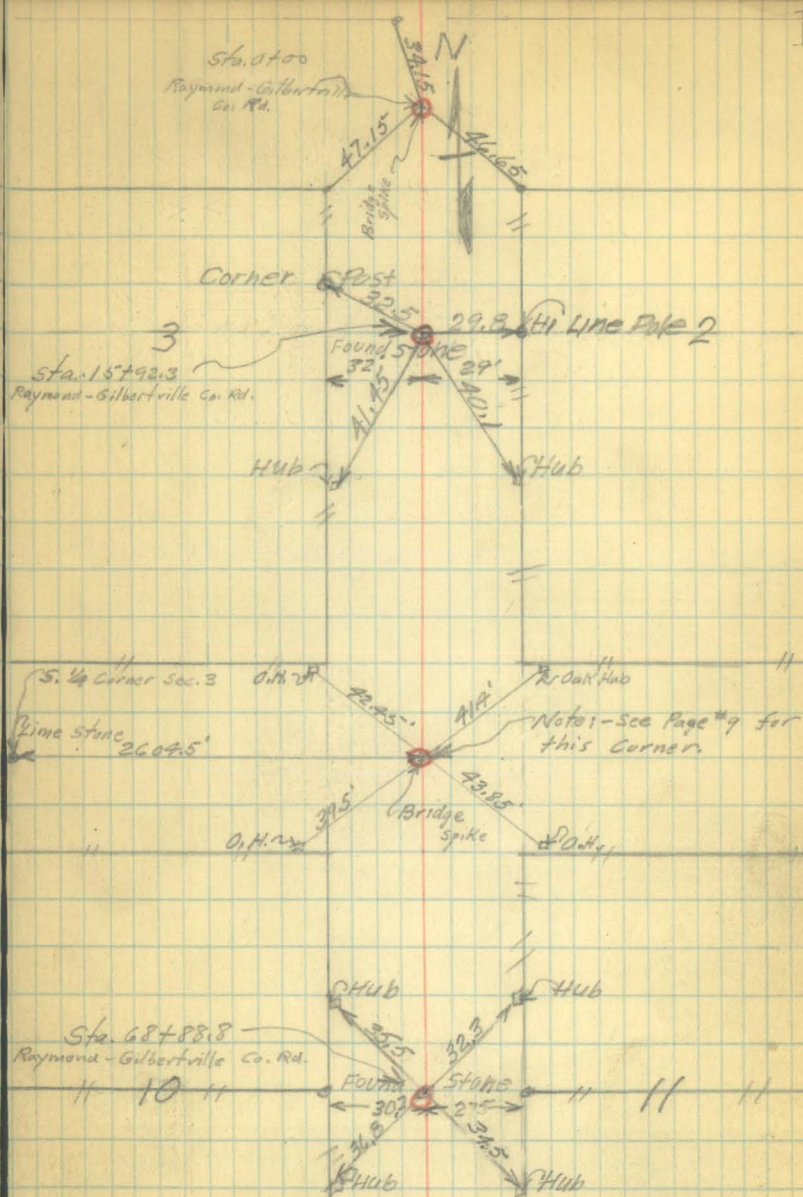
54-57 ✓

Transit Notes

North of Sec 11-88-12

58-64 ✓

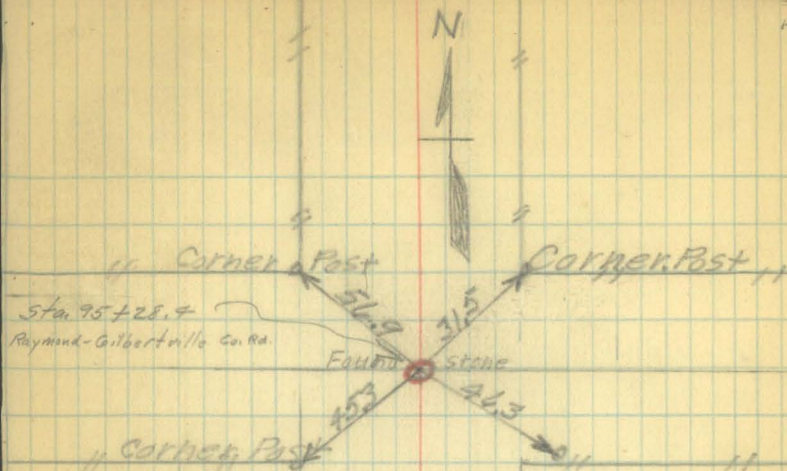




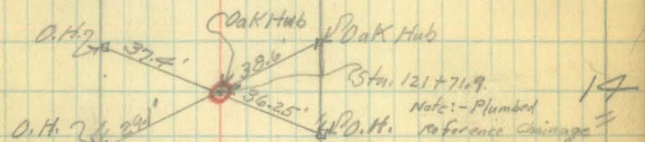


S. $\frac{1}{4}$ Cor. Sec. 3-88-12

Note: - See Page No. 9 this book for explanation of method for setting S.E. Cor. Sec. 3-88-12.



15-88-12



22-88-12



23

12+00

13+00

14+00

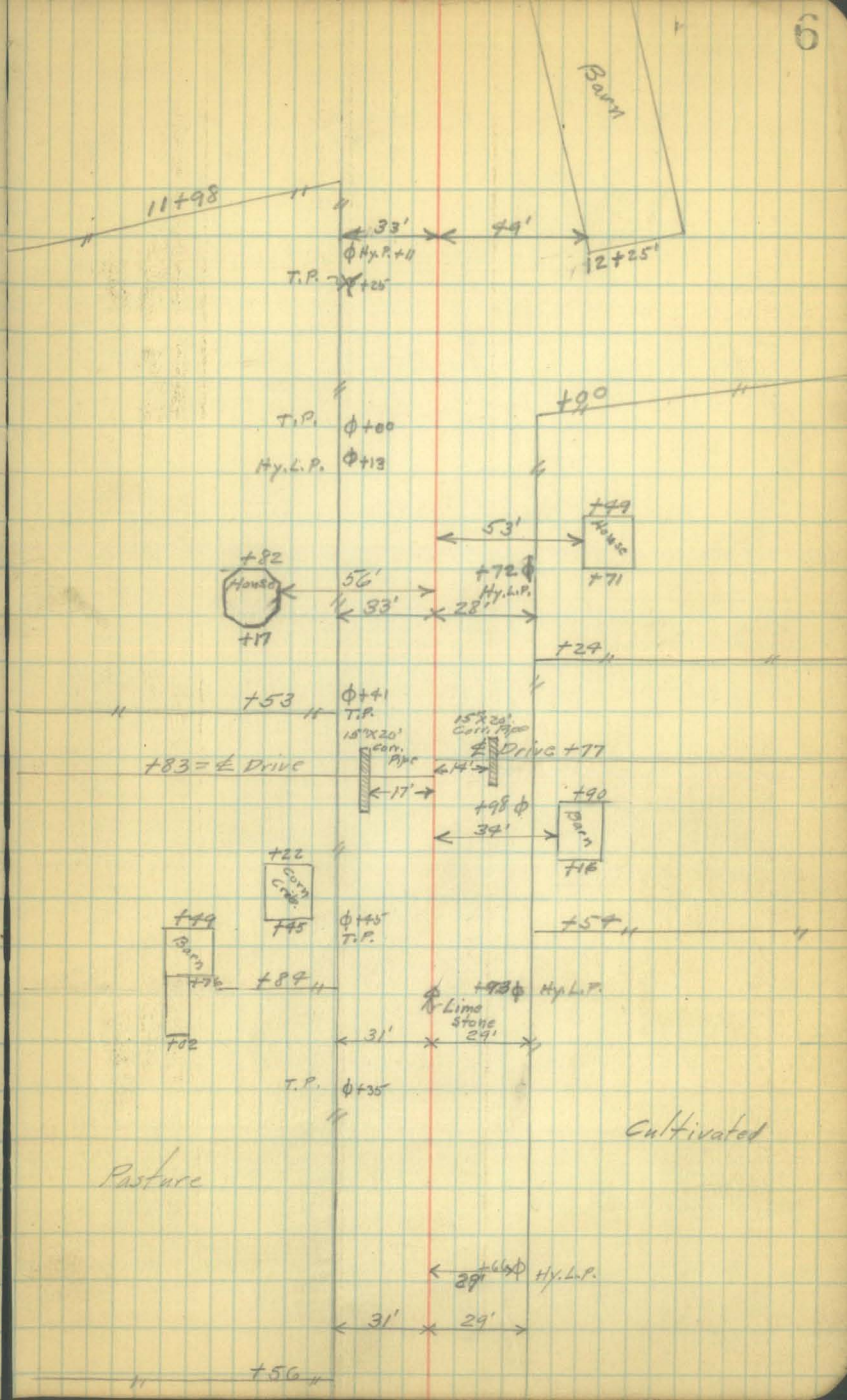
15+00

15+92.3 = Lime Stone = $\Delta = 0^\circ - 23' \text{ Lt.}$

16+00

17+00

18+00



34+00

33+00

32+00

31+00

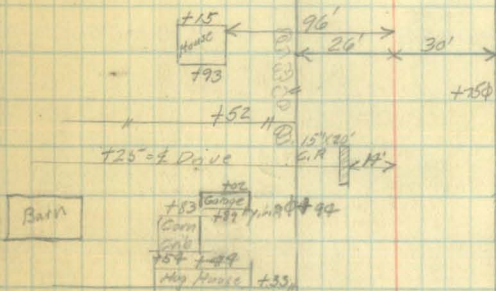
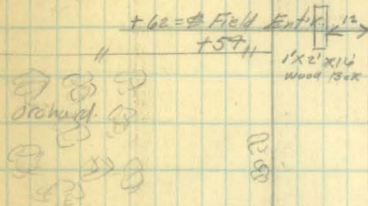
30+00

29+00

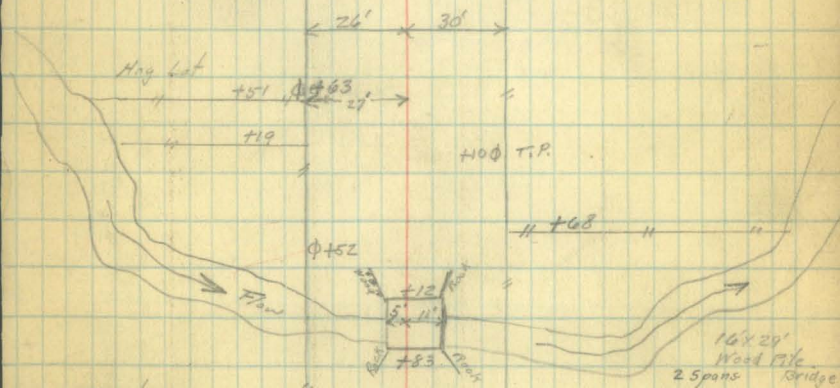
28+00

27+00

Meadow



Cultivated



Pasture

Pasture

3

25400 .

$$\begin{array}{r} 42356 \\ 15923 \\ \hline 264353 \end{array}$$

$\leftarrow 25' \times 28' \rightarrow 6.8' \left\{ \begin{array}{r} 2597.7' \\ - 6.8 \\ \hline 2604.5' \end{array} \right.$

+25 ϕ T.P.

Meadow

Cultivated

472 ϕ π

50+00

6-I-Beam
2 Channels
1617' Wide

49+00

48+00

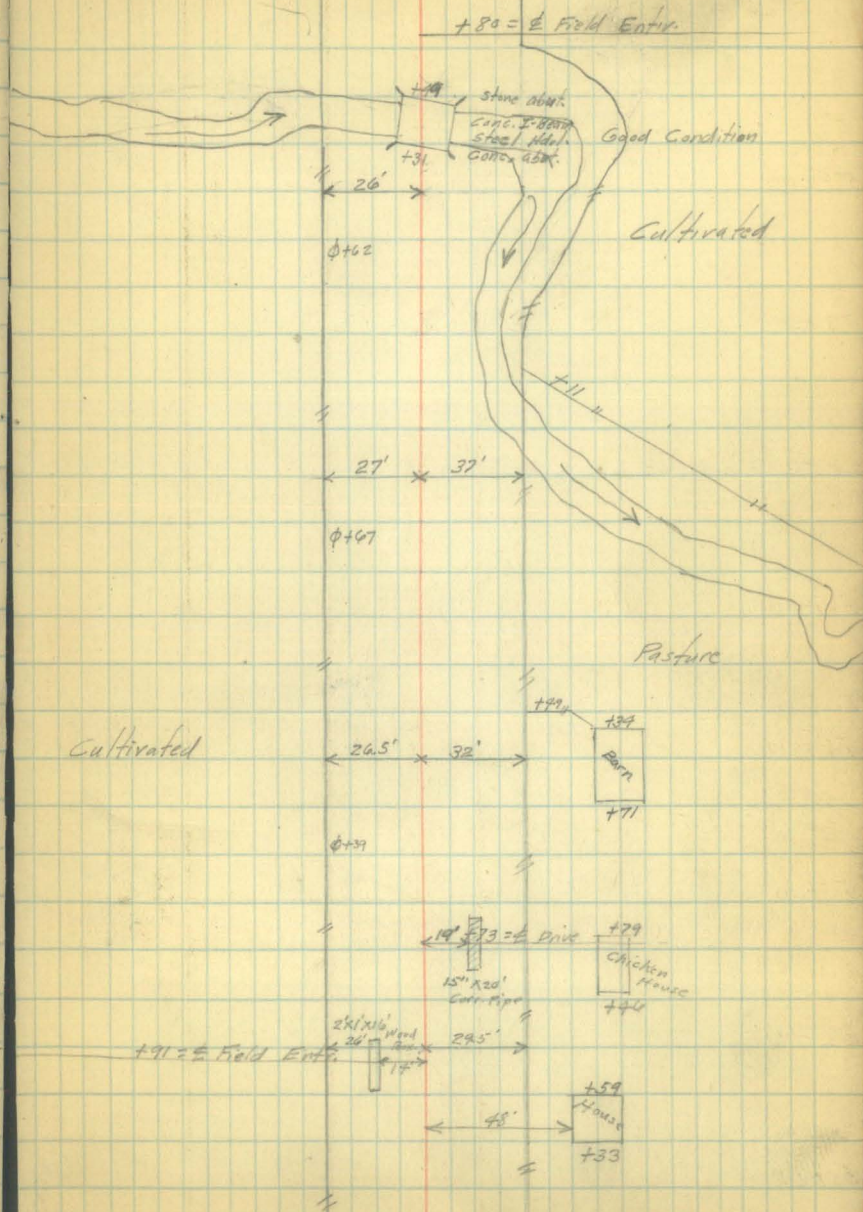
47+00

46+00

45+00

44+00

43+00



58+00

57+00

56+00

55+00

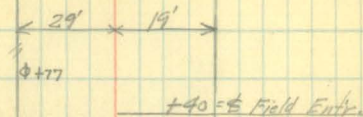
54+00

53+58.5 = P.O.T.

53+00

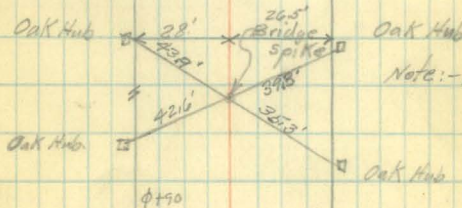
52+00

51+00



Cultivated

Cultivated



+71 = 1/2 Field Entry

Cultivated

Cultivated

φ+42

N.

66+00

260' 28' →
 497

65+00

64+00 = P.O.T.

26' 27' →
 498

63+00

62+00

28' 24' →
 493

Cultivated

Meadow

61+00

60+00

27' 21' →
 493

E. Field Entry 493 492 491 490 489 488 487 486 485 484 483 482 481 480 479 478 477 476 475 474 473 472 471 470 469 468 467 466 465 464 463 462 461 460 459 458 457 456 455 454 453 452 451 450 449 448 447 446 445 444 443 442 441 440 439 438 437 436 435 434 433 432 431 430 429 428 427 426 425 424 423 422 421 420 419 418 417 416 415 414 413 412 411 410 409 408 407 406 405 404 403 402 401 400 399 398 397 396 395 394 393 392 391 390 389 388 387 386 385 384 383 382 381 380 379 378 377 376 375 374 373 372 371 370 369 368 367 366 365 364 363 362 361 360 359 358 357 356 355 354 353 352 351 350 349 348 347 346 345 344 343 342 341 340 339 338 337 336 335 334 333 332 331 330 329 328 327 326 325 324 323 322 321 320 319 318 317 316 315 314 313 312 311 310 309 308 307 306 305 304 303 302 301 300 299 298 297 296 295 294 293 292 291 290 289 288 287 286 285 284 283 282 281 280 279 278 277 276 275 274 273 272 271 270 269 268 267 266 265 264 263 262 261 260 259 258 257 256 255 254 253 252 251 250 249 248 247 246 245 244 243 242 241 240 239 238 237 236 235 234 233 232 231 230 229 228 227 226 225 224 223 222 221 220 219 218 217 216 215 214 213 212 211 210 209 208 207 206 205 204 203 202 201 200 199 198 197 196 195 194 193 192 191 190 189 188 187 186 185 184 183 182 181 180 179 178 177 176 175 174 173 172 171 170 169 168 167 166 165 164 163 162 161 160 159 158 157 156 155 154 153 152 151 150 149 148 147 146 145 144 143 142 141 140 139 138 137 136 135 134 133 132 131 130 129 128 127 126 125 124 123 122 121 120 119 118 117 116 115 114 113 112 111 110 109 108 107 106 105 104 103 102 101 100 99 98 97 96 95 94 93 92 91 90 89 88 87 86 85 84 83 82 81 80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61 60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0

59+07 = Iron Pipe 15" x 20'

59+00 10 Aa. Hilly



74+00

73+00

72+00

71+72 = 12" x 20' Corr. Bpc

71+00

70+00

69+00

68+85.8 = $\Delta = 0^\circ - 02' Lt.$

68+00

67+00

+66 = $\pm$ Field Entr.

$\phi+53$

25' x 31'

$\phi+58$

26' x 27'

Cultivated

Cultivated

$\phi+32$

27' x 29'

+89

Spring
Stone

+89

$\pm$ Field Entr. +81

$\phi+22$

25' x 29'

Cultivated

Cultivated

82+00

81+00

80+00

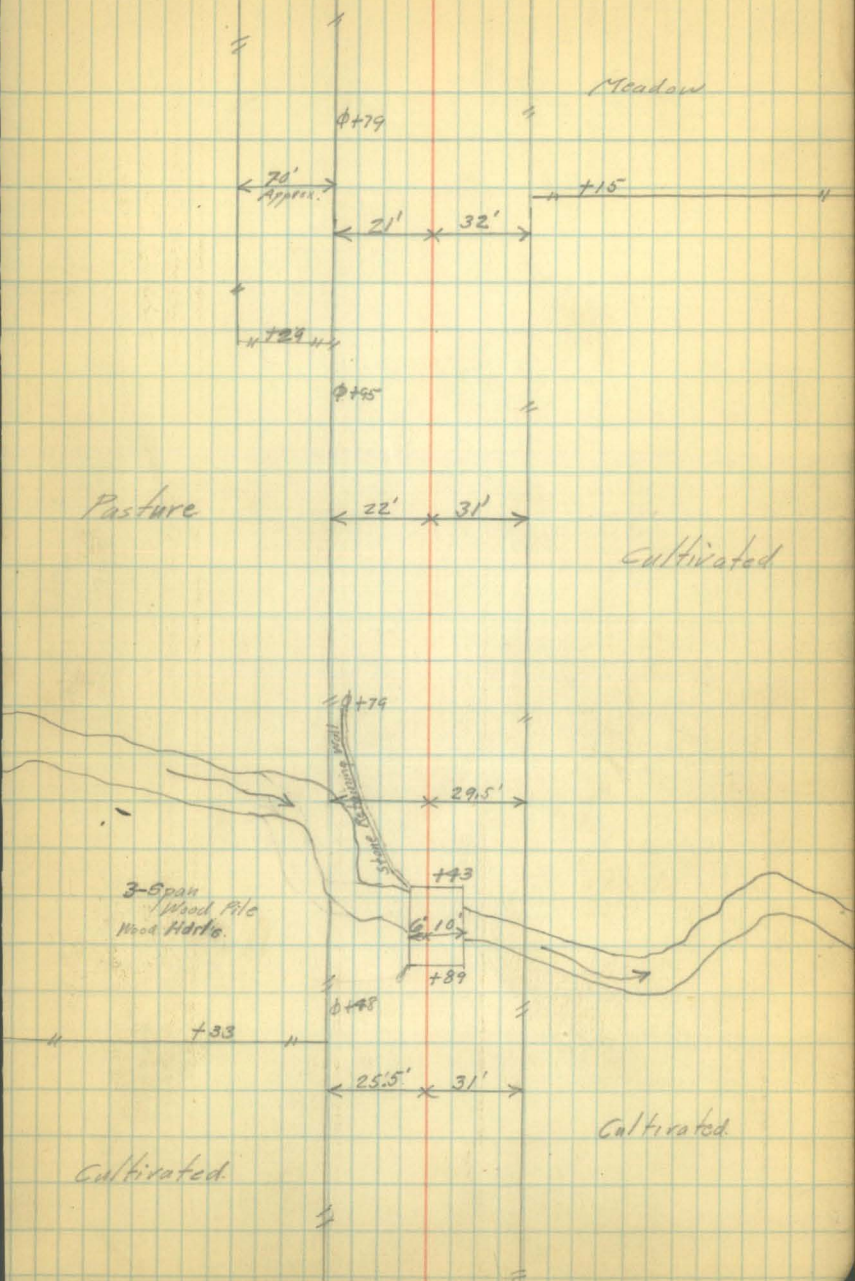
79+00

78+00

77+00

76+00

75+00



90+00

89+00

88+00

87+00

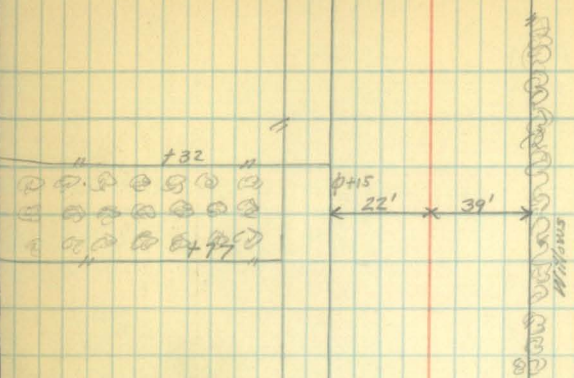
86+00

85+00

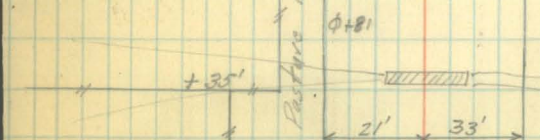
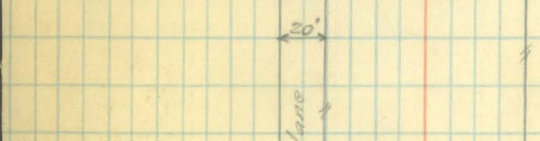
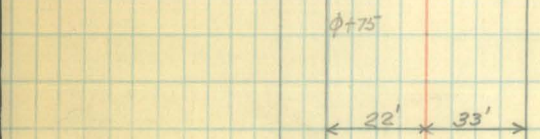
84+41 = 15" x 20' Corr. Pipe

84+00

83+00



Cultivated



98+00

97+00

96+00

95+28.4 = $\Delta = 0^\circ 20'$ Rt.

95+00

94+00

93+10 = 18" X 16' Conc. Circular Pipe

93+00

92+00

91+00

Cultivated

Cultivated

E. Twp. Rd. E.

Quins.
Stone

E. Twp. Rd. W.

Chicken yard

Meadows

+89 = E. Drive

Hog Lot.

+26 = E. Field Entr.

+14

106+00

← 28.5' × 31' →

P+81

105+00

Meadow

P+53

104+00

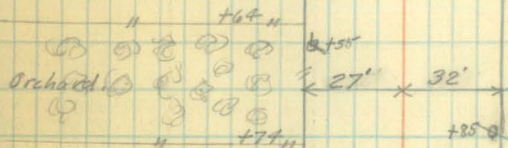
Pasture

← 27' × 32' →

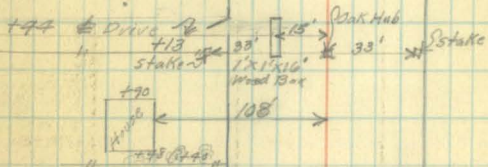
P+31

103+00

102+00



101+00 = P.O.T.



100+00

← 28' × 32.5' →

P+74

cultivated

99+00

Evergreens

114+00

113+00

112+00

111+00

110+00

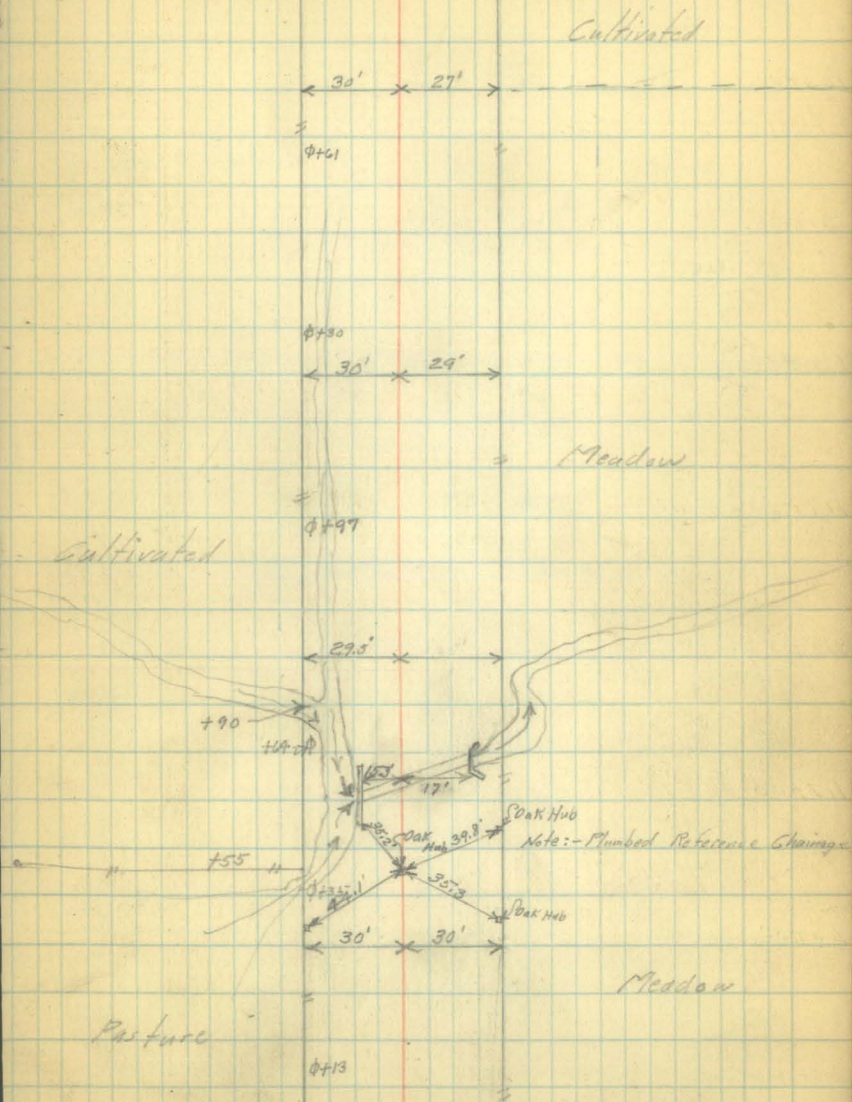
109+07 = $\pm 6' \times 6' \times 37'$ Conc. Culv. 30" Skew

109+00

108+54.8 = P.I. = $\Delta = 0^\circ - 35' L$

108+00

107+00

$$\begin{array}{r} 0-0-0 \\ 5-4-5 \\ \hline 2-5-2 \end{array}$$


$$\begin{array}{r} 0.00 \\ 71.9 \\ \hline 29.1 \end{array}$$

122+00

121+71.9 = P.I. = Δ = 0°-06' Lt.

121+00

120+00

119+00 = P.O.T.

118+00

117+00

116+00

115+00

31' 27'

Oak Hub

ϕ+39

Note: See Page 2 for References.

+94 = Field Entry.

+05 ϕ 30' 27'

Cult. Hub

Oak Hub

Oak Hub

Note: Planted Reference Shrubage

+81 ϕ 37.1'

32.3'

36.4'

Oak Hub

+16 = Field Entry.

29.5' 26.5'

ϕ+52

Cultivated

Cultivated

ϕ+52
30' 27'

ϕ+94

130+00

129+00

128+00

127+95 = # Conc. Culv. 5.4' X 4.3 X 16.7' Fair Condition

127+00

126+00

125+00

124+00

123+00

Pasture

Cultivated

Φ+48

31' 29.5'

+69 = # +77
Field Entrance

Φ+16

Pasture

31' 29'
+48 13.8 3.1'

Φ+57

32' 23.5'

Pasture

+38

Φ+28

+03 31.5' 28'

+68

Cultivated

Φ+67

138+00

137+00

136+00

135+00

134+00

133+00

132+00

131+00

Cultivated

Pasture

Private Lane

Φ+24

30'

32'

Φ+94

29.5'

30.5'

Φ+65

+92

+63

17'

16'

15' x 20'

Corr. Pipe

2' x 1' x 16'

Wood Box

Φ+29

30'

30'

Φ+03

Cultivated

Pasture

31'

30'

Φ+75

146+00

145+00

144+00

143+00

142+00

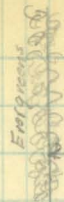
141+00

140+00

139+00

Pasture

Cultivated

E. Field Entr. +47' ↘
+92 "

+101.22'

31'

+90 = E. Entr. W

+93

Barn Yard

+06 = Barn Yard Entr. W

51/6

+90

Barn

Barn

+75 = E. Drive

+83

Garden

+65 "

φ+74

40'

+92

House

+12

63'

31'

39'

E. Drive +75' ↘

+87

39'

φ+9

Shed

+41

50'

+78 "

+63

Shed

+81

+65

Shed

+89 = Field Entr.



32.5'

φ+12

30'

32.5'

φ+83

Cultivated

Pasture

30'

32'

φ+53

154+00

153+00

152+00

151+00

150+00

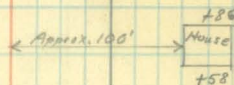
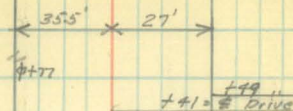
149+00

148+14.6 = P.I. = Δ = 0°-12' RL

148+00

147+00

Cultivated



t+21

Cultivated



t+82

t+51

t+14

t+89 = P.I. = Δ = 0°-12' RL

t+88

t+26

Oak Hub

Note: See Page 2 for References

t+15

Bearing

Bearing

162+00

161+00

160+00

159+00

158+00

157+00

156+00

155+00

Cultivated

Cultivated

Cultivated

Pasture

32' 28.5' 102'

p+54

+75

p+23

33' 29.5'

+45

+ Drive R

+95

p+01

+88 21'

12" x 20'
corr. pipe

+88 = Field Entr.

39.5' 25.5'

p+59

p+35

35.5' 25'

p+06

Timber

170+00

169+00

168+00

167+00

166+00

165+00

164+00

163+00

X

X

+19 = 1/2 Field Entry

X +04

+06

+071

+044

+010

+085

← 26.5' ×

+054

← 27' × 19' →

← 28' × 18.5' →

← 30.5' × 23.5' →

+36 = 1/2 Drive

+29

+09
 +012
 +080
 Evergreens

+06

Cultivated

Cultivated

+04

Pasture

$$175+50 = 22^{\circ}-12'$$

$$\Delta = 89^{\circ}-40' \text{ Lt.}$$

$$D_i = 16^{\circ}-00' \text{ Lt.}$$

$$T = 356.02$$

$$L = 560.41$$

$$175+00 = 18^{\circ}-12'$$

$$E = 146.86$$

$$R = 3558.1$$

$$174+50 = 14^{\circ}-12'$$

$$P.C. = 172+72.5$$

$$P.I. = 176+28.5$$

$$P.T. = 178+32.9$$

$$174+00 = 10^{\circ}-12'$$

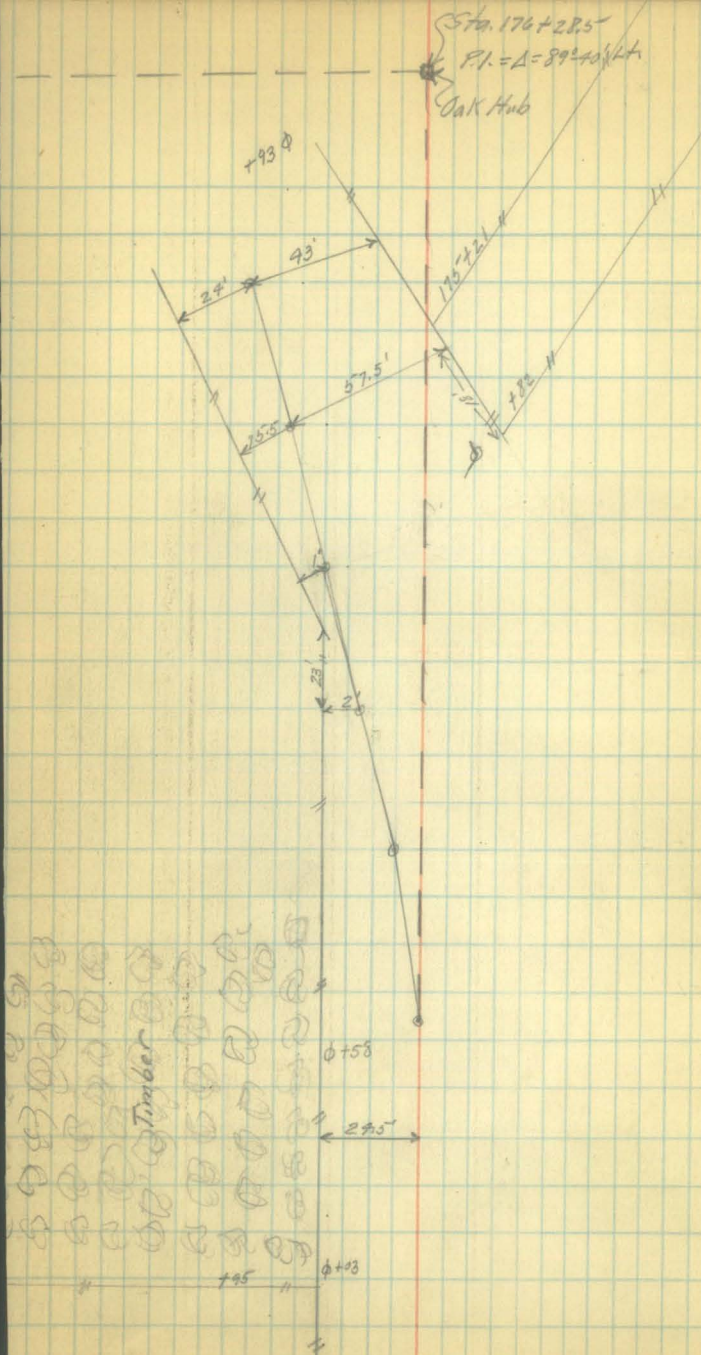
$$173+50 = 6^{\circ}-12'$$

$$173+00 = 2^{\circ}-12'$$

$$P.C. = 172+72.5 = 0^{\circ}-00$$

$$172+00$$

$$171+00$$



186+00

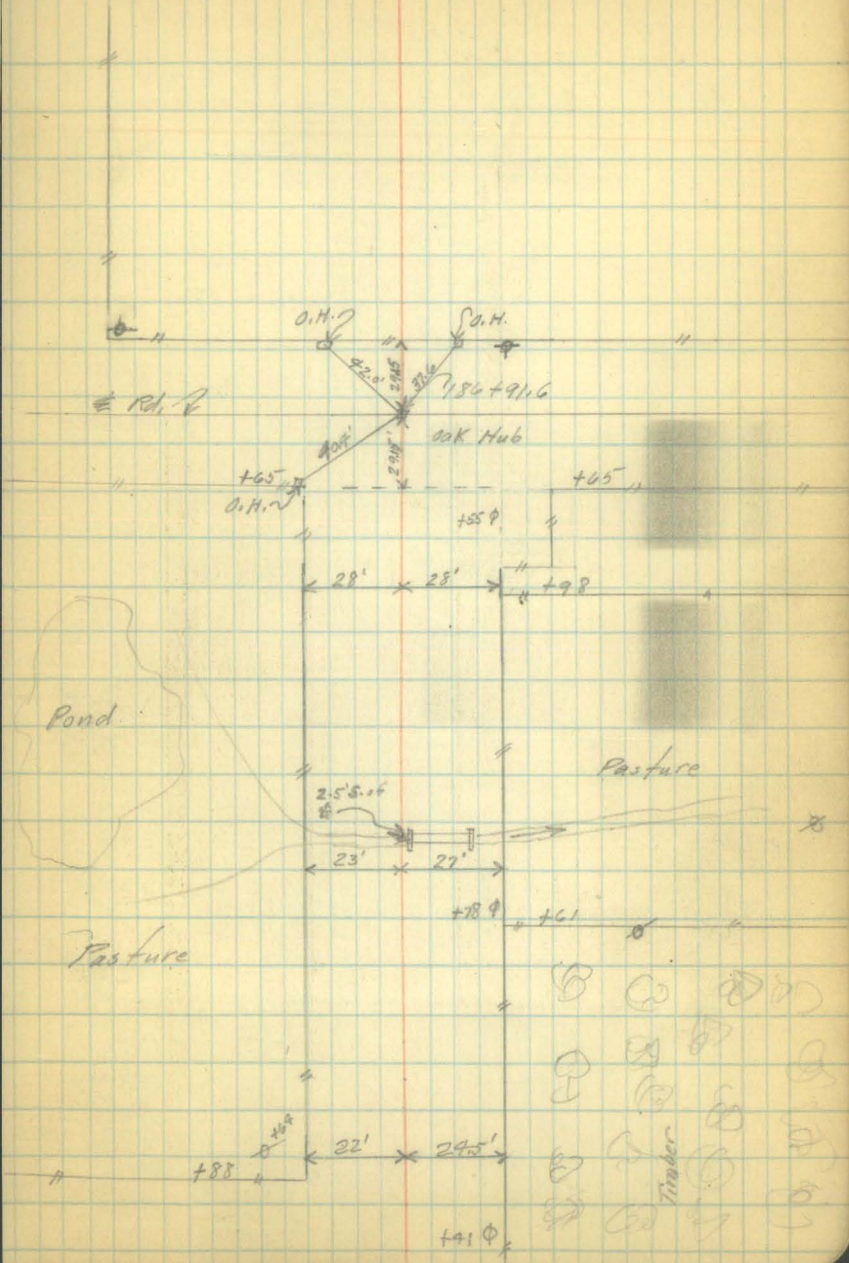
185+00

184+19.5 = E. Conc. Culv. 2.5' x 3' x 17' Poor Condition

184+00

183+00

182+00



10/9/28 P.M.

D.S.B.
C.V.C.
FrankRaymond-Gilbertville Co. Rd.
Prelim. X-sections.

30

Sta.	B.S.	H.I.	F.S.	Elev.
B.M.	5.21	923.48 ✓		918.27 ✓
○	11.60	934.60 ✓	0.48	923.00 ✓
○	7.12	946.23 ✓	0.99	939.11 ✓
○	3.14	939.75 ✓	4.62	934.61 ✓
T.B.M.	1.68	935.28 ✓	6.15	933.60 ✓
○	0.83	925.09 ✓	11.02	924.26 ✓
B.M.			9.57	915.52 ✓

10/10/28 A.M.

0+00 = $\frac{1}{2}$ Intersection W/oo.-Raymond & Raymond-Gilbertville Co. Rd.

0+23

1+00

1+61 = $\frac{1}{2}$ V.T. Pipe

2+00

3+00

3+21 = $\frac{1}{2}$ street E.Spike in root 24" Soft Maple N. Side Rd. Sta. 1924 95 on
W/oo.-Raymond Co. Rd.Spike in Tel. Pole #275 S. Side Rd. Approx. 550 W. of Intersection
with Raymond-Gilbertville Co. Rd.Spike in Pine Tree E. Side Rd. Raymond-Gilbertville Co. Rd.
Sta. 0+55

91.8	18.2	18.5	16.5	18.7	18.4	19.1	
1.3	1.5	1.9	1.2	1.0	0.8	0.6	
30	34	14	0	18	34	50	

16.1	16.3	16.9	17.4	17.8	17.7	17.5	15.6	15.1	14.7
36	3.4	2.8	2.3	1.8	2.0	2.2	4.1	4.6	5.0
39	34	27	13	0	15	24	29	37	41

13.7	13.6	13.8	12.7	12.8	13.6	15.4	15.1	15.7	13.6	13.4	13.6	13.5	14.7
6.0	6.1	5.4	7.0	6.9	6.1	4.3	4.0	4.0	6.1	6.3	6.1	6.2	5.0
33	32	23	21	16	11	7	0	13	18	23	29	32	34

10.9	10.9	10.9	10.7	11.7	11.5	10.8	14.5	15.1	15.2	14.9	11.3	11.8	13.0	13.4	15.2	16.0
8.8	8.8	9.0	8.5	8.4	8.9	6.2	4.4	4.5	4.8	8.4	7.9	6.7	6.3	4.5	3.7	
50	43	37	28	14	11	9	6	0	12	13	18	23	28	31	33	

11.7	12.8	13.4	13.1	13.5	14.6	15.1	14.9	13.0	13.2	13.7	15.1	16.4
8.0	6.9	6.3	6.6	6.2	5.1	7.6	4.8	6.7	6.5	6.0	4.0	3.3
33	24	16	15	12	9	0	13	16	18	21	27	33

13.3	13.7	14.4	13.8	13.8	14.8	15.2	15.2	13.7	13.9	15.0	16.8	17.7
6.4	6.0	5.3	5.9	5.9	4.4	4.5	4.5	6.0	5.8	4.7	2.9	2.0
33	27	18	16	15	13	0	12	15	17	19	24	33

10.8	12.8	13.8	14.7	15.2	15.2	14.1	14.6	15.7	15.7	17.7
8.9	6.9	5.9	5.0	4.5	4.5	5.6	5.6	4.0	4.0	2.0
50	38	25	11	0	12	15	17	19	23	33

Sta. B.S. H.I. F.S. Elev.

919.67 ✓

4+00

4+50

5+00

① 0.54 913.51 ✓ 6.70 912.97 ✓

6+00

7+00

① 1.37 904.15 ✓ 10.73 ✓ 902.78

8+00

9+00 = $\frac{1}{2}$ street E.

10+00

10+70 = $\frac{1}{2}$ Corr. Pipe

11+00

11+37 = $\frac{1}{2}$ Main Track I.C.R.R.

① 2.12 899.36 ✓ 6.91 897.24 ✓

14.3	14.2	14.4	14.7	13.6	13.6	14.4	14.7	14.7	13.2	13.9	16.1	16.9	17.1
5.2	5.2	5.3	5.0	6.1	6.1	5.3	5.0	5.0	6.0	5.8	3.6	2.9	2.6
33	31	26	20	18	16	13	8	11	14	16	20	25	33

14.2	14.2	14.2	14.0	13.2	13.2	14.0	14.4	14.3	13.4	13.5	15.2	15.8	16.2
5.5	5.5	5.5	5.7	6.2	6.2	5.7	5.3	5.4	6.3	6.2	4.5	3.9	3.4
33	31	25	19	18	16	13	8	11	14	16	19	27	33

13.5	13.5	13.5	13.2	12.0	11.7	12.8	13.2	13.3	12.4	12.5	14.5	14.4	15.2
6.2	6.2	6.2	7.5	7.7	8.0	6.9	6.5	6.7	7.3	7.2	5.2	4.8	4.5
33	31	24	21	19	17	12	5	11	13	13	19	21	33

11.8	11.7	11.4	9.7	9.4	9.0	9.0	9.7	9.4	9.2	9.9	9.5	9.0	9.1	10.7	11.1	11.4
1.7	1.8	2.1	3.8	4.1	4.5	4.5	3.8	4.1	4.3	4.6	5.0	4.0	4.4	2.8	2.4	2.5
33	32	25	21	17	16	13	12	9	9	12	17	18	20	29	29	33

8.2	8.0	7.8	7.4	4.8	4.8	5.0	5.4	5.0	3.9	3.8	4.6	5.9	6.4	6.5
5.2	5.5	5.7	6.1	9.1	9.1	8.5	8.1	8.5	9.6	9.7	8.9	7.6	7.1	7.0
33	31	27	21	16	14	12	8	13	15	17	19	23	29	33

1.8	1.9	0.8	0.8	0.9	1.3	1.2	9.4	9.5	9.4	1.2	1.4	1.5
2.2	2.3	3.4	3.7	3.3	2.9	3.0	4.6	4.7	4.6	3.0	2.8	2.7
33	19	16	14	12	8	12	19	18	22	26	30	33

9.3	9.4	9.4	9.5	9.7	9.8	9.4	9.5	9.7	9.8	9.9	9.9	9.3
5.9	5.8	5.8	5.7	5.5	5.9	6.6	6.7	6.5	5.9	5.2	5.6	
100	50	30	13	8	12	15	18	23	29	31	33	

9.5	9.5	9.5	9.5	9.5	9.4	9.4	9.6	9.5	9.5	9.5	9.4	
8.7	8.7	8.7	8.9	9.0	7.8	7.6	7.7	9.0	8.9	8.8	8.7	8.1
33	27	19	14	11	7	8	15	18	21	26	28	33

9.3	9.4	9.4	9.4	9.6	9.6	9.6	9.4	9.4	9.4	9.5	9.5	9.5
10.4	9.8	9.5	8.2	8.2	8.2	9.7	9.8	9.8	9.0	8.7	8.5	
30	17	2	2	8	18	19	22	27	29	32	33	

9.4	9.4	9.5	9.6	9.6	9.6	9.7	9.5	9.5
7.6	8.6	8.5	8.3	8.0	7.6	7.5	8.9	8.2
33	27	20	15	8	10	18	24	34

9.7	9.7	9.7	9.7	9.7
7.0	7.0	6.9	6.9	6.9
50	20	8	24	50

Sta. B.S. H.I. F.S. Elev.

899.36 ✓

11+50 = 1/2 Side Track.

12+00

13+00

13+50

14+00

15+00

1317.

O

1.70

889.72 ✓

3.52

895.84 ✓

11.34

888.02 ✓

16+00

17+00

18+00

T.B.M.

2.12

880.38 ✓

11.46

878.26 ✓

19+00

20+00

96.6	96.7	96.8	97.0	97.2
2.8	2.7	2.6	2.4	2.2
38	19	8	23	50

91.4	92.0	92.4	92.6	92.8	93.1	93.4	93.6	93.8	94.0	94.2
8.0	7.8	6.8	3.8	7.0	4.1	4.3	4.8	4.8	4.4	4.2
33	32	11	3	0	11	18	20	24	28	33

94.6	94.4	94.9	95.2	95.9	95.3	95.4	94.6	94.8	94.8	93.4	93.9	96.4	97.6
4.9	4.8	4.5	4.2	5.5	6.1	6.0	4.8	4.6	4.6	5.8	5.6	3.0	1.8
33	31	27	20	18	19	9	0	7	16	18	20	24	33

94.8	95.0	95.3	95.0	95.2	95.4	94.2	94.5	94.3	93.4	93.8	96.2	97.2
4.6	4.4	4.1	4.7	5.7	5.8	5.2	4.9	5.1	6.0	5.6	3.2	2.2
33	27	22	16	14	11	9	0	14	18	20	23	33

94.0	94.2	94.3	93.5	93.7	91.8	91.9	92.3	92.5	92.9	91.5	91.7	92.5	93.9	94.4	95.0
5.4	5.2	5.1	5.9	6.2	7.6	7.5	7.1	6.9	7.1	7.9	7.7	6.9	5.6	4.6	4.4
33	28	22	19	17	14	13	7	0	14	17	18	20	21	26	33

89.7	89.7	89.4	88.4	87.0	87.0	87.8	87.5	87.7	87.5	87.4	88.3	89.4	89.4
9.7	9.7	9.8	11.0	12.4	12.4	11.6	11.9	12.2	11.9	12.0	10.6	10.0	10.0
33	28	24	19	15	14	11	0	12	14	18	20	28	33

Spike in root 18" Pine W. Side Rd. Sta. 13+88

85.6	85.7	85.1	84.6	83.4	83.5	83.8	83.7	83.6	83.0	83.5	84.4	84.9	84.9	84.5
7.1	7.0	7.6	5.1	6.3	6.2	5.9	5.8	6.1	6.7	6.4	6.3	4.8	4.8	5.2
33	28	26	20	17	15	12	0	13	16	17	19	26	30	33

81.8	81.7	80.3	80.0	80.0	81.0	81.3	80.7	80.2	80.1	80.5	81.0	81.4	81.4	81.4
7.7	8.0	9.4	9.7	9.7	8.7	8.4	9.0	9.5	9.6	9.2	8.7	8.3	8.1	8.6
33	27	21	18	16	14	0	13	14	17	19	23	26	30	33

79.4	79.5	78.4	77.6	77.4	79.1	79.3	79.0	77.9	77.7	78.1	78.9	79.5	79.1
10.2	11.3	12.1	12.3	10.4	10.4	10.7	11.8	12.0	11.6	10.8	10.2	10.6	10.6
33	26	21	19	17	13	0	11	14	16	19	22	30	33

Spike in Tel. Pole W. Side Rd. Sta. 18+82

77.5	77.6	77.1	76.1	76.1	77.3	77.6	77.6	76.0	75.9	77.1	77.4	77.8	78.0
2.9	2.8	3.3	4.8	4.3	3.1	2.8	2.8	4.4	4.3	3.3	3.0	2.4	2.4
33	27	20	18	16	13	0	11	13	16	18	26	31	33

75.8	76.0	75.6	75.5	74.4	74.7	75.8	76.2	75.4	74.6	74.7	75.9	76.1	76.4	77.1
4.6	4.4	4.8	4.9	5.8	5.7	5.6	4.2	4.5	5.8	5.7	4.5	4.3	3.8	3.3
33	28	24	20	18	15	13	0	12	15	16	18	23	26	33

S-4	B.S.	H.I.	F.S.	Elev.
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880.38V

21+00

$14^1, 14^1, 14^1, 15^3, 15^3, 14^1, 15^0, 14^1, 13^3, 13^3, 14^1, 15^0, 14^1, 13^3, 13^3, 14^1, 15^3, 15^3, 16^1$
 $5.8, 5.7, 6.8, 7.1, 7.0, 5.8, 5.9, 5.7, 7.0, 7.0, 5.6, 5.1, 5.6, 4.3$
 $3.3, 2.4, 1.9, 1.7, 1.5, 1.3, 0, 1.2, 1.5, 1.6, 1.8, 2.3, 3.0, 3.3$

22400

73.5	73.7	73.2	73.2	72.2	72.4	73.2	73.5	73.4	72.0	72.4	73.1	73.2	74.3	74.1
65	62	72	72	82	80	72	66	70	84	80	73	72	61	63
33	27	23	19	15	15	13	0	11	14	17	18	24	30	33

23400

72.0 72.2 72.4 71.7 71.2 71.2 71.4 72.0 72.2 71.5 71.0 71.5 71.5 72.7 73.1 73.6
8.4 8.0 8.0 8.7 9.2 9.2 8.8 8.2 8.0 9.1 9.9 8.9 8.9 7.7 7.3 6.8
33 27 23 21 17 16 13 0 10 14 17 18 19 26 30 33

① 1.35 872.92 ✓ 8.81 871.57 ✓

24750

72.4	72.4	71.6	69.0	68.9	69.9	70.2	70.2	68.9	68.5	69.3	69.9	71.5	72.3	72.4
0.5	0.5	1.3	3.9	4.0	3.0	2.7	2.7	4.0	4.4	3.6	3.5	1.9	0.6	1.8
33	27	23	19	17	14	9	8	11	17	18	22	26	30	33

25400

71.3	71.0	69.3	69.1	67.8	67.5	68.1	68.4	69.0	67.4	67.5	67.7	70.7	71.1	
1.4	1.9	3.6	4.8	5.5	5.7	4.8	4.5	4.4	5.5	5.4	5.2	2.2	1.8	
33	27	23	20	17	15	13	0	10	12	19	23	29	33	

26700

6.5	6.4	6.5	6.0	6.1	6.5	6.7	6.0	6.8	6.5	6.1	6.1	6.3	6.4	6.0
7.4	7.5	7.4	7.9	7.8	6.4	5.8	5.9	7.1	7.4	8.8	8.8	7.6	6.1	6.7
33	27	18	16	15	12	0	10	13	21	23	25	26	29	32

27400

60.3	60.5	61.3	62.2	64.0	66.2	66.4	66.2	63.9	62.6	62.8	63.1	X
12.4	12.4	11.6	9.7	8.9	6.7	6.5	6.7	9.0	10.3	10.1	9.8	
33	27	22	19	16	11	8	9	15	18	20	23	

① 6.59 872.99✓ 6.52 866.40✓

27+73 = N. end Wings

58.8	59.2	60.2	60.6	61.2	61.5	61.7	61.2	61.4	61.6	62.4	61.2	60.7	58.9
14.2	13.8	13.8	12.4	9.8	7.6	5.7	5.8	5.6	8.5	10.6	16.8	12.3	17.1
25	14	14	11	11	8	5	5	9	12	16	21	26	33

27+83 = N. end Bridge

$$\begin{array}{r} 57.7 \\ 15.3 \\ \hline 5 \end{array} \quad \begin{array}{r} 67.6 \\ 5.4 \\ \hline 5 \end{array} \quad \begin{array}{r} 67.5 \\ 5.5 \\ \hline 5 \end{array} \quad \begin{array}{r} 67.7 \\ 5.3 \\ \hline 11 \end{array} \quad \begin{array}{r} 58.6 \\ 14.4 \\ \hline 11 \end{array}$$

28 + 00

57.0	57.9	57.9	57.5	57.5	67.5	67.5	67.6	57.9	57.2	57.0	57.0	56.7
15.0	13.1	13.1	13.5	13.5	5.5	5.5	5.4	13.6	13.8	14.0	14.0	16.3
200	150	100	50	5	5	2	11	11	50	100	150	200

$28 + 12 = 5$ end Bridge

$$\begin{array}{r} 59.9 \\ 15.3 \\ \hline 3 \end{array}$$

Sta. B.S. H.I. F.S. Elev.

872.99 ✓

28+28 = S. end Wings

B.M.

8.90 869.09 ✓

28+65

29+00

30+00

31+00

0 8.60 879.11 ✓ 2.48 870.51 ✓

32+00

33+00

34+00

35+00

0 4.17 879.81 ✓ 3.77 875.64 ✓

36+00

37+00

Spike in Elm F. Side Rd. approx. 135' from E. Rd. Sta. 28+10

59.1	60.5	63.0	63.2	67.6	69.4	67.9	69.5	60.7	60.4	
13.9	12.5	10.0	9.8	5.2	5.6	5.7	10.5	12.3	12.6	
33	18	14	11.5	5	10	16	23	38		
65.2	65.1	63.2	63.3	61.4	68.1	67.9	67.9	68.3	67.5	63.4
7.8	7.3	8.8	8.7	8.6	4.9	5.1	5.1	4.7	3.7	9.6
33	30	26	24	12	8	0	11	12	16	24
69.6	69.1	65.9	65.9	66.9	68.2	68.3	68.2	69.0	66.8	67.9
3.4	3.9	2.1	2.7	4.7	4.8	4.7	4.8	6.0	6.2	5.1
31	27	21	15	10	6	0	13	17	23	27
70.9	70.6	69.4	68.6	68.7	69.4	69.5	69.4	67.7	66.8	67.1
2.3	2.4	3.6	4.4	4.3	3.6	3.5	3.8	5.3	6.2	5.9
33	24	21	16	12	9	0	16	18	21	25
71.0	71.0	70.6	69.3	69.4	70.4	70.4	70.0	69.2	68.6	68.7
2.0	2.0	2.5	3.6	3.7	2.6	2.6	3.0	3.8	4.4	4.3
33	26	18	15	12	10	0	16	20	23	26
73.4	72.8	72.4	71.2	70.9	71.9	71.5	71.1	70.6	70.6	70.8
5.7	6.3	7.0	7.9	8.2	7.8	7.6	8.0	8.6	8.6	8.3
33	26	18	16	11	9	0	17	20	22	23
75.8	75.7	75.0	72.7	72.7	73.0	73.0	72.9	72.3	72.2	72.9
3.3	3.7	7.1	6.4	6.4	6.1	6.1	6.3	6.8	6.9	6.2
33	26	20	16	12	10	0	16	19	21	22
77.1	76.9	76.7	74.9	74.6	74.0	74.1	74.8	74.1	73.6	73.4
2.2	2.2	3.9	4.2	4.6	5.1	5.0	4.3	4.0	7.3	5.0
29	26	23	20	15	14	13	10	0	14	16
77.8	77.1	76.9	75.0	74.9	74.6	74.1	75.4	75.6	75.0	73.6
1.7	1.8	2.0	3.2	3.9	4.2	4.5	4.7	3.7	3.5	7.1
33	24	20	22	20	16	15	14	11	0	13
77.5	77.2	77.1	75.0	74.6	74.1	74.1	75.3	75.6	74.8	73.2
2.3	2.6	2.7	4.5	5.2	5.4	5.4	4.6	4.3	5.0	6.6
33	28	26	20	17	16	14	12	0	13	14
77.0	76.7	76.4	74.9	74.1	73.8	73.7	74.7	74.9	74.5	72.9
2.8	3.1	3.4	4.9	5.7	6.0	5.9	5.1	4.9	5.3	6.4
33	28	26	21	19	16	14	12	0	13	16

Sta. B.S. H.I. F.S. Elev

879.81 ✓

38+00

39+00

① 6.07 880.58 ✓ 5.30 879.51 ✓

40+00

41+00

42+00

42+356 = 4 Twp. Rd. E. & W.

T.B.M.

A.M.

10/13/88

P.S.B. Cloudy
C.V.C. Cold
F.R.K.

2.74 877.84 ✓

T.B.M.

3.79

881.63

877.84

43+00

44+00

45+00

46+00

① 5.97 883.09 ✓ 4.51 877.12 ✓

76.9	76.6	75.7	74.5	73.9	73.6	74.7	75.0	74.3	72.9	72.8	73.2	73.6	72.9	72.5
3.9	4.0	4.1	5.3	5.9	6.2	5.1	4.8	5.5	6.9	7.0	6.6	6.2	6.9	6.9
33	28	26	23	20	15	11	0	12	16	21	22	28	31	33

75.6	75.4	75.1	74.3	73.8	73.8	74.5	74.5	74.2	73.1	73.0	73.5	73.9	73.6	73.6
4.2	4.7	4.8	5.6	6.0	6.0	5.3	5.3	5.6	6.7	6.8	6.3	5.9	6.2	6.2
33	28	25	22	20	19	12	0	14	17	20	23	29	33	33

75.6	75.6	75.6	74.2	74.2	73.8	74.6	74.8	74.4	73.1	73.2	73.7	74.2	74.7	74.7
4.8	4.8	4.8	5.6	6.4	6.4	6.8	6.0	5.8	6.2	7.5	7.7	6.9	6.9	5.9
33	28	25	22	20	17	15	12	0	14	17	21	23	27	33

74.5	74.5	74.5	74.9	74.6	74.6	74.0	74.0	74.8	75.1	74.9	73.3	73.4	74.0	74.0	73.6
4.4	4.8	5.7	6.0	6.6	6.6	6.6	5.8	5.5	5.7	7.3	7.2	6.6	6.6	7.0	7.0
33	28	25	23	21	18	16	15	12	0	14	17	21	24	28	33

78.4	76.9	76.1	76.4	75.8	76.0	76.2	75.9	74.0	73.9	74.4	74.8	74.8	74.8	74.8
4.7	4.7	4.5	4.2	4.8	4.6	4.4	4.7	6.6	6.7	6.2	6.5	6.5	6.5	6.5
33	28	25	20	16	12	0	12	17	23	27	30	33	33	33

77.6	77.3	76.9	76.3	75.7	74.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
3.0	3.3	3.7	4.3	4.9	5.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
30	29	17	0	13	26	50	50	50	50	50	50	50	50	50

Spike in Tel. Pole on N. Side Twp. Rd. E. Sta. 42+15

78.1	77.7	76.6	75.7	75.7	76.4	76.2	75.8	75.3	75.3	75.1	75.1	75.1	75.1	75.1
3.5	3.9	5.0	5.9	5.9	5.4	5.4	5.8	6.3	6.3	6.5	6.5	6.5	6.5	6.5
33	29	25	21	14	11	0	10	12	20	28	33	33	33	33

79.2	79.8	78.9	76.8	76.7	76.5	77.0	76.6	76.0	75.9	76.0	76.2	76.2	76.2	76.2
2.4	2.3	2.7	4.8	4.9	5.1	4.4	4.6	5.0	5.6	5.7	5.6	5.7	5.7	5.7
33	29	25	21	17	12	9	0	9	16	22	29	33	33	33

79.6	79.4	77.6	77.1	76.6	76.2	76.3	76.9	76.5	76.9	75.6	75.9	75.5	75.5	75.5
2.0	2.2	7.0	4.5	5.0	5.4	5.3	4.7	4.8	5.1	5.7	6.0	5.7	6.1	6.5
33	30	28	25	19	16	14	11	0	10	15	23	27	30	33

78.5	77.6	77.0	76.6	76.5	77.1	76.9	76.5	75.8	75.5	76.4	76.4	76.4	76.4	76.4
3.1	4.0	4.6	5.0	4.8	4.5	4.7	5.1	5.8	6.1	5.2	5.2	5.2	5.2	5.2
33	25	24	19	13	11	0	13	14	21	24	33	33	33	33

Sta. B.S. H.I. F.S. Elev.

883.09

47+00

79.6	79.8	79.4	79.5	79.4	79.5	79.4	79.1	79.1	79.7	79.2	79.2	79.9	79.8	79.8
33	33	37	5.6	6.7	6.8	6.7	6.0	6.0	6.4	7.9	7.9	7.2	6.3	6.3
33	31	29	24	21	18	14	11	8	14	18	23	26	31	33

48+00

80.4	80.1	79.7	79.5	79.6	79.4	79.3	79.3	79.0	79.3	79.0	79.5	79.8	79.5	79.3
29	30	34	5.6	6.5	6.6	5.8	5.8	6.1	6.8	8.1	9.5	9.7	2.6	2.8
33	31	26	23	19	15	12	8	10	15	18	22	25	28	33

48+34

80.0	79.7	79.1	79.0	79.6	79.0	79.1	79.0	79.1	79.3	79.5	79.5	79.8	79.9	79.0	79.1
31	34	41	6.1	6.5	6.1	6.0	6.1	6.0	6.8	8.3	8.6	9.3	13.8	15.1	17.0
33	29	25	21	18	15	6	8	5	8	13	20	23	30	33	38

48+55

79.7	79.4	78.1	76.7	76.5	76.6	77.2	77.1	77.0	77.1	77.3	77.9	77.2	76.1	76.1	76.9
34	37	50	6.4	6.8	6.5	5.9	6.0	6.7	11.8	14.2	15.9	17.0	18.0	18.2	18.2
33	29	24	22	19	17	14	8	7	12	19	22	27	31	33	38

49+00

79.1	78.8	77.2	76.1	76.3	77.5	77.4	78.1	78.0	78.0	78.4	77.4	77.7	77.2	77.3	77.3
40	43	57	7.0	6.8	5.6	5.7	11.0	17.1	17.1	15.7	15.7	13.9	12.8	12.8	12.8
33	30	25	22	18	15	8	8	15	19	21	23	28	34	34	34

50+00

77.7	77.1	76.8	76.7	77.1	80.2	80.4	81.3	78.6	79.0	79.0	79.6	79.5	79.5	79.5	79.5
54	6.0	6.8	7.4	6.9	2.3	2.7	2.8	7.5	8.1	12.1	12.5	13.8	13.6	13.6	13.6
33	26	20	22	17	9	0	5	13	22	32	40	48	60	60	60

50+31 = N. end Bridge

75.1	81.7	82.2	82.1	82.4	81.5	82.1
8.0	1.7	0.9	1.0	0.7	1.6	1.0
12	12	6	0	7	13	13

50+40 = S. Bridge

79.8	79.6	68.9	69.5	82.5	82.3	90.8	64	68.5	67.5	66.2	66.1	66.1
123	12.5	14.2	0.8	0.6	0.8	13.8	14.0	14.8	15.6	16.9	17.0	17.0
100	35	5	5	5	12	12	30	100	100	200	300	300

B.M. 12.22 888.59 6.72 876.37

Spike in Walnut E. Side Rd. Approx. 50 feet S. Sta. 50+45

50+50 = S. end Bridge

79.6	81.5	82.0	82.8	80.9
18.0	2.1	5.6	5.8	17.7
6	6	7	8	13

50+73

79.0	69.4	70.6	77.2	79.5	81.3	81.4	81.6	85.1	85.1	84.9
126	18.8	18.9	11.4	9.1	4.3	4.2	4.0	2.5	3.5	3.7
33	23	18	10	7	2	3	9	18	25	33

51+00

79.5	81.0	82.9	81.9	83.8	86.6	85.1	86.3	87.1	87.4	89.8	90.0
2.8	4.6	4.7	3.7	2.8	2.2	2.5	2.3	1.5	1.2	1.2	1.2
33	30	24	16	10	4	0	9	17	24	30	33

① 12.90 900.67 0.82 887.77

Sta. B.S. H.I. F.S. Elev.

899.29

55+65

56+00

56+50 = Rock runs out about here of $\frac{1}{2}$
① 0.38 886.99 12.68 886.61

57+00

57+50

58+00

① 4.53 881.94 9.58 877.41

59+00

59+07 = $\frac{1}{2}$ Iron Pipe (Water comes in ditches N.E.S.)

60+00

61+00

T.B.M. 10.29 891.63 0.60 881.34

62+00

97.6 96.1 95.0 95.9 96.5 96.1 96.7 96.7 96.3 96.5 96.9 94.2 91.2 90.2
17 3.2 4.3 3.9 2.8 3.2 2.6 2.6 3.0 2.8 2.6 5.1 8.1 9.1
33 31 28 26 18 15 12 7 0 5 11 19 28 33

97.2 94.3 93.0 92.9 92.9 92.5 92.7 92.3 90.5 88.4 86.1
2.1 5.0 6.0 6.4 6.4 6.8 6.6 7.0 8.8 10.9 13.2
33 27 23 15 7 0 2 8 17 23 33

92.3 90.8 88.8 87.4 87.1 87.7 87.3 87.2 87.4 86.3 85.0 83.0
7.0 8.5 10.5 11.4 12.2 14.6 12.0 12.1 14.9 13.0 14.3 16.3
33 28 23 18 13 6 0 3 6 13 18 33

84.4 83.9 83.1 83.1 83.1 83.5 83.3 83.3 82.7 81.9 80.9 80.7 80.2
2.6 3.1 3.9 3.9 3.9 3.5 3.7 3.7 4.3 5.1 6.1 6.3 6.8
33 27 25 21 14 11 0 7 16 18 21 23 33

81.2 81.0 80.3 80.4 80.5 80.1 80.4 79.9 79.1 78.6 77.8 77.2
5.8 6.0 6.7 6.6 6.5 6.9 6.6 7.1 7.4 8.4 9.2 9.8
33 31 29 22 16 12 0 7 15 19 22 33

77.4 77.5 77.4 78.8 78.9 77.6 76.8 76.0 75.4 74.9
9.4 9.5 9.6 8.2 8.6 9.4 10.2 11.0 11.6 12.1
33 28 21 15 0 6 14 19 23 33

77.1 76.7 76.0 75.9 76.9 76.4 76.3 74.5 74.5 73.5 72.9 72.3 71.6
7.8 5.2 5.9 6.0 5.0 5.5 5.6 7.9 7.4 8.4 9.0 9.6 10.3
33 28 22 18 13 0 2 6 8 16 18 23 33

77.0 77.0 76.8 75.8 74.0 73.6 74.6 76.2 75.9 78.5 72.2 73.6 73.0 71.9 70.7
4.9 4.9 5.4 6.4 7.9 8.3 5.3 5.7 6.2 8.4 8.2 9.3 9.9 10.0 11.2
33 30 28 23 21 18 16 0 2 5 5 12 21 30 33

78.1 77.1 76.8 75.4 76.9 76.6 76.1 75.7 74.0 76.1 72.3
3.8 4.8 6.1 6.3 5.0 5.3 5.8 6.7 7.9 5.8 9.6
33 26 22 21 17 0 6 15 21 24 33

76.4 77.8 77.0 76.3 76.3 77.4 77.1 77.4 77.3 76.7 76.1 76.1
3.3 4.1 4.9 5.6 5.6 4.5 4.8 4.5 4.6 5.2 5.8 5.8
33 26 24 20 18 16 0 6 15 22 27 33

Spike in back-side Tel. Pole E. side Rd. Sta. 62+43

80.6 80.3 80.2 80.0 80.0 80.3 80.0 80.3 79.5 79.0 78.9 78.4 77.4
11.0 11.3 11.4 11.6 11.3 11.6 11.3 12.1 12.4 12.7 13.9 14.0
33 29 24 21 17 13 0 9 13 19 24 26 33

Sta. B.S. H.I. P.S. Elev.

891.63

63+00

88.2 87.9 87.3 86.2 85.1 84.5 84.7 85.3 85.1 85.8 85.6 84.3 83.9
3.7 3.7 4.3 5.7 6.5 7.1 6.9 6.3 6.5 5.8 6.0 7.3 7.9
53 26 20 14 8 8 11 14 19 22 27 29

63+50

10.3 90.1 89.3 88.0 86.7 86.1 86.2 86.3 86.8 87.5 86.8 88.6 88.9 89.1
1.3 1.5 2.3 3.0 4.9 5.5 5.7 4.8 4.8 4.1 4.8 6.0 6.7 7.1
53 26 20 13 8 8 12 13 21 26 29 33 39

64+00

90.3 89.9 89.3 87.6 86.7 86.3 86.4 86.9 87.0 87.7 86.5 85.8 85.1 84.6
1.3 1.7 2.3 4.0 4.9 5.3 5.2 4.7 4.6 3.9 5.1 5.8 6.0 6.7
53 26 18 11 7 8 12 16 22 27 33 39 45

64+70

89.6 89.0 88.2 86.7 85.7 85.4 85.1 85.8 86.6 86.5 86.4 84.3 83.4 83.3
2.0 2.6 3.4 4.9 5.9 6.2 6.5 5.7 5.0 5.1 4.2 7.3 8.2 9.0
53 26 21 13 9 9 13 21 24 27 30 33 39

65+00

86.7 86.9 84.7 83.6 82.5 81.8 82.2 82.9 83.1 82.8 80.1 80.3 80.3 80.3
2.0 2.6 4.9 8.0 9.1 9.5 9.4 8.7 8.5 8.8 11.3 11.3 11.3 11.3
53 26 19 12 8 8 10 18 26 30 33 39 45

66+00

80.6 80.9 80.1 78.7 77.8 77.3 77.4 77.6 77.4 79.2 79.1 76.3 75.7 75.1
0.5 1.8 2.0 1.8 2.3 2.8 2.7 2.5 2.5 1.2 2.0 3.8 4.4 4.8
53 29 26 20 10 9 10 17 22 26 30 33 39

67+00

76.2 76.0 75.1 74.5 73.8 74.0 74.1 75.6 75.4 73.2 72.3 71.3 71.9 71.9
3.9 4.1 5.0 5.4 6.3 6.1 6.0 6.6 6.7 6.1 7.8 8.3 8.2 8.2
53 28 23 17 8 7 9 13 19 28 31 32 33

68+00

73.9 74.2 73.4 73.1 71.9 71.7 71.9 71.6 71.4 71.6 72.0 72.2 71.8 71.3 71.3
6.2 5.9 6.7 7.0 8.2 8.4 8.5 8.5 8.5 8.1 7.9 8.3 8.8 8.8 8.8
53 28 26 21 16 14 12 10 9 18 22 29 31 32 33

69+00

71.5 71.5 71.1 70.2 69.1 69.7 70.5 70.8 70.5 70.2 70.4 70.6 70.3 70.1 70.1
8.5 8.6 8.9 9.4 10.4 10.7 9.6 9.5 9.6 9.2 8.7 8.5 8.8 8.8 8.8
53 28 25 19 16 14 12 8 12 14 18 25 31 33 33

T.B.M.

2.81

875.67

7.21

872.86

70+00

71.0 71.0 70.8 69.8 69.1 68.9 69.7 70.4 70.3 70.4 69.3 68.5 68.4 69.9 69.3
4.7 4.7 5.2 5.9 6.6 6.8 6.0 5.3 5.4 5.3 5.9 7.2 7.2 5.8 6.4
53 30 27 19 14 13 12 7 8 13 15 18 22 24 33

71+00

72.1 72.1 72.3 71.4 69.1 69.5 70.4 70.7 70.4 70.3 69.8 69.5 70.2 70.7 70.4
3.6 3.6 4.3 4.6 6.2 5.3 5.4 5.1 5.4 6.2 7.2 5.5 5.0 5.3 5.3
53 29 26 19 16 11 10 7 8 15 18 22 24 29 33

Sta. B.S. H.I. F.S. Elev.

875.67

71+72

72+00

○

5.80

879.73 ✓

1.74

873.93 ✓

73+00

73+60

74+00

75+00

76+00

○

0.71

868.85 ✓

11.54

868.14 ✓

76+44 = Bank dirt ends here both sides on Rd.

76+89 = N. end Bridge

77+00

77+43 = S. end Bridge

B.M.

1.11

867.74 ✓

10/18/28

B.M.

9.86

877.60

867.74

70.9 69.9 69.5 69.6 69.5 69.0 71.0 70.9 70.4 68.9 68.6 68.7 69.2 69.0 68.8
5.5 5.8 6.2 6.1 6.2 6.7 6.2 6.9 5.1 6.8 7.1 6.8 6.3 6.7 6.8
30 35 27 17 11 7 6 10 12 18 22 23 33 30

70.1 70.7 70.9 69.9 69.9 70.3 70.9 70.9 70.9 70.1 70.2 70.5 70.8
5.0 5.0 5.3 5.8 5.8 5.4 4.8 4.8 4.8 5.6 5.5 5.2 5.4
33 25 17 14 11 7 4 8 12 15 23 31 33

73.7 73.9 74.4 74.8 72.9 72.8 73.9 73.9 73.5 74.2 74.6 75.0 75.6
4.0 5.8 5.3 5.4 6.8 6.9 5.8 5.8 6.2 5.5 5.1 4.7 4.1
33 29 26 18 14 10 3 8 15 18 22 30 33

75.8 75.9 76.0 75.7 75.0 74.9 76.4 75.9 75.5 75.0 75.3 75.6 75.7 76.2
3.9 3.8 3.7 4.0 4.7 4.8 4.3 3.8 4.2 4.7 4.4 4.1 4.0 3.5
33 27 22 16 13 11 10 5 8 15 16 22 30 33

76.0 76.0 75.7 75.2 74.6 74.7 75.1 75.4 75.1 74.7 75.1 74.6 75.0 74.9 75.4
3.7 3.7 4.0 4.5 5.1 5.0 4.6 4.3 4.6 5.0 4.6 5.1 4.7 4.8 4.3
33 25 18 12 11 10 6 4 8 14 15 18 22 29 33

74.4 74.4 74.1 73.9 72.8 72.5 72.5 73.0 72.5 72.7 73.2 72.8 72.6 73.9 73.3
5.3 5.3 5.6 6.7 6.8 7.2 7.2 6.7 7.2 7.0 6.2 6.9 7.1 6.3 6.4
33 27 21 18 13 12 10 6 10 13 16 23 29 33

71.1 71.0 71.3 70.9 69.6 69.7 69.5 6.93 6.93 6.94 6.90 6.86 70.9 70.5
8.6 8.7 8.4 8.8 11.1 11.0 10.2 10.4 10.4 10.3 10.7 11.1 9.7 9.2
33 28 27 24 16 14 9 8 9 14 16 24 28 33

69.7 69.6 67.4 66.7 66.7 68.6 68.4 68.6 65.4 65.7 68.6 69.3 69.2
10.8 10.7 10.5 10.2 10.2 9.5 9.5 9.3 9.5 9.2 9.3 10.4 10.5
33 24 21 17 11 6 8 8 18 22 29 30 33

62.2 62.2 61.7 62.0 62.2 62.1 62.1 62.7 61.8 60.7
6.7 6.7 7.2 6.9 6.7 6.8 6.8 6.2 7.1 8.2
33 29 23 20 20 8 10.0 10.0 19 33

60.5 60.0 59.4 62.2 62.2 62.2 62.7 62.7 62.7 62.7
8.4 8.9 9.3 9.7 9.7 9.7 10.2 10.2 10.2 10.2
100 56 6 6 8 10 18 68 100

59.8 60.3 68.4 65.4 65.4 62.3 62.5
9.1 8.6 9.5 9.5 9.5 9.8 9.9
11 5.3 5.3 5.3 10.6 10.6 21

on S.E. Conc. Wing Wall Sta. 77+48

Sta. B.S. H.I. F.S. Elev.

87260

77+65

78+00

78+65

79+00

80+00

81+00

O 7.21 884.63 ✓ 0.18 877.42 ✓

82+00

83+00

84+00

84+41 = 1/2 Corr. Pipe

85+00

O 11.42 895.39 ✓ 0.66 883.97 ✓

113

63

61.5	60.5	60.3	61.8	61.8	66.7	67.0	68.5	68.3	68.4	68.6	67.6	66.7	66.5	67.4	68.2	68.1
16.1	17.3	17.3	15.8	15.8	10.9	10.6	9.1	9.3	9.2	9.0	10.1	10.4	10.1	10.2	9.7	9.5
29	29	21	12	11	11	7	4	8	10	11	16	20	23	26	30	33

61.6	61.1	62.4	62.6	62.6	68.1	68.5	68.7	68.5	68.6	69.1	67.5	67.0	68.4	69.4
16.0	16.5	15.2	15.0	12.0	9.5	9.3	8.9	9.1	9.0	9.5	10.1	10.6	9.2	9.2
33	22	20	17	18	11	4	3	6	13	16	20	26	28	33

63.0	63.6	64.1	67.9	68.2	69.0	69.6	69.3	69.2	69.3	69.8	69.5	68.6	69.9
14.6	14.0	13.0	9.7	9.4	8.6	8.0	8.3	8.4	8.3	8.8	9.1	9.0	8.7
33	31	24	19	13	9	5	3	6	14	18	24	30	33

69.5	69.4	69.7	69.6	69.2	69.2	70.5	70.4	69.9	69.9	70.0	69.3	69.1	69.4	70.2
8.1	8.2	7.9	8.0	8.4	8.3	8.4	7.1	7.2	7.7	7.7	7.6	8.3	8.5	8.0
33	27	23	20	18	14	11	7	5	4	8	15	19	26	30

74.3	74.6	74.4	74.4	72.4	73.2	73.4	72.6	72.4	72.6	73.1	72.9	71.3	71.7	75.0	74.9
3.3	3.0	3.2	3.2	3.2	7.4	8.2	5.0	5.2	5.0	4.5	4.7	5.8	5.9	3.6	3.7
33	25	22	17	12	9	7	4	6	10	14	18	20	23	31	33

78.4	78.4	78.1	76.5	76.2	77.0	76.4	75.9	75.4	75.5	75.9	76.0	75.0	74.9	75.5	76.6
10.8	10.8	10.5	1.1	1.4	0.6	1.2	4.8	2.2	2.1	1.7	1.6	2.6	2.7	2.1	1.0
33	23	20	17	13	9	7	4	6	12	13	18	21	25	27	33

80.7	80.7	80.4	80.2	79.3	79.0	79.2	79.1	78.1	78.3	77.8	77.4	77.4	77.3	77.6
3.9	3.9	4.2	4.4	5.3	5.6	6.4	6.5	6.5	6.3	6.4	7.2	7.2	6.8	7.0
33	24	22	19	15	12	8	2	8	13	16	18	23	27	30

81.9	81.8	82.0	81.7	81.0	80.4	80.5	80.1	79.9	79.8	80.2	79.7	79.6	79.9	80.8	80.5
2.7	2.8	2.6	2.9	3.6	4.2	4.1	4.5	4.7	4.8	4.4	4.9	5.0	4.7	4.2	4.1
33	30	22	18	15	8	5	3	8	13	16	18	22	28	32	33

75.9	77.0	79.3	79.0	79.2	79.5	79.3	79.3	78.4	78.4	78.1	78.1
5.7	5.6	5.3	5.6	5.4	5.1	5.3	5.3	6.7	6.3	6.5	6.5
33	28	21	17	10	8	8	13	16	21	28	33

76.2	78.2	78.0	79.0	77.4	77.4	79.7	79.7	77.2	75.5	74.3	74.1
6.4	6.4	6.6	6.6	7.2	5.9	7.9	7.4	7.4	8.1	8.3	8.5
33	36	22	8	6	4	8	12	14	20	33	33

79.7	79.7	79.7	79.4	79.6	80.2	80.9	80.9	81.0	80.1	79.6	79.7	79.4
5.5	5.4	5.9	5.0	5.0	4.4	3.6	3.7	3.7	4.5	5.3	5.3	5.2
33	25	22	19	14	10	6	4	6	13	15	20	28

Sta. B.S. H.I. F.S. Elev.

895.39

86+00

87.1 88.1 89.5 89.8 90.4 90.0 89.9 89.4 89.9 89.9 89.0 89.1 89.4
 12.3 12.3 11.9 11.5 11.0 11.4 11.5 11.3 11.5 12.1 12.4 12.3 12.0
 33 22 14 9 6 3 0 13 16 18 23 29 33

87+00

88.1 88.5 88.6 88.4 87.9 87.8 88.2 87.9 87.9 87.7 87.7 87.5 87.4 87.7 88.5 89.2 90.1
 7.3 7.1 6.8 7.0 7.5 7.6 7.2 7.6 7.5 7.7 7.7 7.9 8.0 7.7 6.2 6.2 5.3
 33 25 22 17 16 15 12 8 3 0 12 14 17 18 24 28 33

88+00

93.8 94.0 94.1 92.0 91.7 91.5 92.4 91.9 91.6 91.9 92.3 92.2 91.6 91.7 92.6 93.1 94.6
 1.6 1.2 1.3 3.4 3.7 3.9 2.8 3.5 3.8 3.5 3.1 3.2 3.8 3.7 2.8 1.7 0.8
 33 28 22 18 14 11 9 7 0 5 8 12 13 18 21 26 33

O 6.57 901.32 ✓ 0.64 894.75 ✓

89+00

97.2 97.1 96.9 95.1 95.4 95.7 95.2 95.1 95.2 94.8 94.8 95.9 96.2 96.8
 4.1 3.0 2.4 6.3 4.3 5.8 5.7 6.1 6.2 6.1 6.5 6.5 5.4 5.1 4.5
 33 21 18 14 11 10 7 6 0 11 14 15 19 27 33

90+00

96.8 96.7 96.4 95.6 95.3 95.4 96.0 96.0 96.0 96.1 96.0 96.1 96.5 96.5 96.5 96.5 96.5
 7.5 4.2 4.4 5.7 6.0 5.4 5.3 5.3 5.3 5.2 5.3 5.2 4.8 4.8 4.8 4.8 4.8
 33 28 21 18 16 12 8 0 11 13 14 16 18 23 29 33

91+00

96.1 96.1 96.2 95.8 95.7 95.9 96.5 96.3 96.2 96.3 96.5 96.1 96.4 96.5 96.7 96.7
 4.4 4.9 5.1 5.5 5.7 5.7 5.0 5.1 5.0 4.8 4.6 4.4 3.8 3.8 3.8
 33 26 23 17 13 10 6 4 0 12 16 19 23 29 33

92+00

96.5 96.4 96.2 97.1 97.1 97.2 97.1 96.9 96.9 97.1 97.3 97.5 97.9
 2.8 3.1 3.1 3.7 3.9 4.1 3.9 4.2 4.4 4.4 3.9 4.0 3.8 3.8
 33 28 22 20 19 17 11 9 0 12 14 21 27 33

B.M. 6.35 905.71 ✓ 1.96 899.36 ✓

93+00

Spike road, Soft in Farm Yard E. Side Rd. Sta. 91+71
 96.4 96.5 96.2 96.8 96.3 96.0 96.4 97.1 97.2 96.9 95.9 95.7 96.0 95.4
 9.1 9.2 9.5 10.2 10.4 9.9 8.3 8.5 8.5 9.3 9.8 10.0 9.7 9.8
 33 26 21 19 15 12 8 5 0 13 16 21 27 29 33

93+10 E Conc. Pipe

96.4 96.4 96.4 95.9 95.9 96.0 97.5 97.2 97.2 97.1 97.3 96.1 96.0 95.0 94.7
 8.1 9.5 10.1 9.8 7.7 7.7 8.2 8.5 8.5 8.0 7.9 9.6 9.7 10.7 10.2
 30 29 18 12 12 3.7 3.7 0 12.5 12.5 13 13 20 33 38

94+00

97.3 97.2 97.1 97.1 96.8 96.9 97.5 96.8 96.8 96.2 96.4 96.0 97.8 98.0 98.1 98.8
 8.4 8.5 8.2 8.1 8.9 8.4 8.2 6.8 7.3 7.5 7.3 7.7 7.9 7.7 6.6 5.9
 33 28 26 21 18 15 12 5 4 0 13 18 21 24 29 33

95+00

0.8 1.1 1.4 0.5 99.6 99.4 00.7 1.0 0.9 1.0 1.1 1.3 1.0 1.3
 4.9 4.6 4.3 0.2 6.1 6.1 5.0 4.7 4.8 4.7 4.1 4.4 4.7 4.4
 33 31 24 21 20 19 18 8 0 4 11 20 21 33

Sta. B.S. H.I. F.S. Elev.

91560

104+00

105+00

○ 5.99 909.56 12.03 903.57 ✓

106+00

107+00

108+00

○ 3.02 900.25-✓ 12.33 897.23 ✓

108+86 = N. end of E. Wing S. New Conc. Culv.

109+00 = E. Culv. at Inlet

109+12 = N. end of W. Wing

109+18 = S. end of E. Wing + E. Culv. at Outlet

109+35 = S. end of W. Wing

B.M.

7.00 893.25 ✓

110+00

52 56 4.9 60 42 4.2 59 56 62 5.7 64 76 9.7 11.6 12.2 120
104 10.0 12.7 10.6 11.2 11.7 9.7 10.0 9.4 9.9 9.2 8.0 5.9 4.0 3.4 3.6
33 28 23 19 17 16 13 0 9 12 16 18 20 24 28 33

4.2 3.7 2.8 2.6 2.2 2.5 3.8 3.4 4.2 4.0 3.8 1.3 8.4 9.1 9.2
12.4 12.4 13.2 13.0 13.4 13.3 11.5 12.2 11.4 11.6 10.8 8.3 7.2 6.5 6.4
33 28 23 18 17 15 13 0 7 11 12 18 23 26 33

0.6 0.6 9.9 9.9 9.9 9.9 1.2 1.2 1.6 1.9 3.7 4.1 7.0 7.9 7.9
9.0 9.0 9.9 10.1 10.2 8.4 8.4 8.0 7.7 5.9 5.5 2.1 1.7 1.7
33 27 23 19 16 11 0 9 13 16 20 25 29 33

9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7
12.6 12.2 12.4 12.3 12.8 12.8 11.2 11.3 10.5 11.0 11.1 9.6 3.8 3.4 4.2
33 30 24 19 18 16 13 0 9 11 13 16 20 25 33

9.5 9.5 9.9 9.9 9.9 9.9 9.9 9.9 9.9 9.9 9.9 9.9 9.9 9.9 9.9
16.5 16.5 15.7 15.2 13.8 13.7 13.8 13.8 12.2 14.2 13.4 6.6 7.2
33 30 26 18 12 0 9 14 16 18 21 25 33

9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1
6.2 8.7 14.2 14.4 8.3 5.4 5.4 5.5 6.5 6.5 3.1 3.3
33 29 23 16 15 9 0 10 13 22 30 33

9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0
7.3 8.1 9.4 12.2 14.9 7.0 7.0 5.8 5.5 5.9 5.0 7.8 2.1 5.3 5.0
200 100 68 60 17 17 16 12 0 10 15 18 22 28 33

9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1
6.1 7.1 13.5 14.2 7.0 7.0 7.3 6.0 5.6 5.7 14.0 16.2 7.8 6.1
33 28 21 17 17 16 15 12 0 8 20 24 28 33

9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1
6.1 7.0 12.8 14.0 7.0 7.0 7.3 6.0 5.6 5.7 9.1 9.1 7.7 7.7 15.0 16.0 17.7
33 28 22 17 17 16 15 12 0 8 17 17 18 18 30 100

9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1
6.1 6.0 7.4 11.3 11.8 7.7 7.2 5.7 5.9 6.0 7.9 13.4 14.2 14.6
33 31 26 25 21 20 16 11 0 9 14 17 23 33

9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1 9.1
5.4 5.0 6.5 7.0 7.2 6.0 5.6 5.7 6.0 6.8 8.8 10.7 12.8 13.8
33 28 25 21 20 17 15 0 7 11 23 24 30 33

Sta. B.S. H.I. F.S. Elev.

911.88

121+00

122+00

1.05 900.03 ✓ 12.90 898.98 ✓

123+00

124+00

1.61 889.05 ✓ 12.59 887.44 ✓

125+00

126+00

127+00

B.M. 2.77 887.89 ✓ 3.93 885.12 ✓

127+90

127+95 = 2 Conc. Curb.

128+00

129+00

1.9 1.9 8.7 7.9 5.3 5.3 A.3 A.1 A.4 A.2 A.9 A.7 A.7 6.8 9.3 11.0 9.9 9.5
40 40 3.7 4.0 4.6 4.6 7.6 7.8 7.5 7.7 7.0 7.2 7.2 5.1 2.6 0.9 2.0 2.4
33 32 31 28 24 20 19 18 17 0 10 12 14 16 21 27 31 33

1.9 1.9 0.0 9.0 9.9 9.9 9.9 9.9 9.9 9.9 9.9 9.9 9.9 9.9 9.9 9.9 9.9 9.9
101 9.5 9.9 12.9 13.0 13.4 13.3 12.7 12.9 12.4 12.9 12.5 12.2 11.4 8.8 7.6 8.8
33 32 29 25 22 20 18 16 0 9 11 15 16 20 23 27 33

9.5 9.5 9.3 9.3 9.3 9.3 9.3 9.3 9.3 9.3 9.3 9.3 9.3 9.3 9.3 9.3 9.3 9.3
9.4 9.2 6.2 6.4 6.9 6.9 6.0 6.4 6.2 5.7 6.1 6.8 6.2 5.7 5.0 4.2 2.7
33 31 26 23 21 19 17 0 3 5 9 12 14 15 18 21 27

8.9 8.9 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7
10.6 11.2 11.3 11.5 10.6 10.7 10.6 11.4 11.9 12.0 11.0 11.0 10.8 10.6
33 28 23 20 17 0 8 12 13 15 16 24 28 33

9.2 9.0 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4
3.9 4.1 4.5 4.5 3.2 3.5 3.4 5.2 5.3 4.7 5.2 5.2
33 31 24 19 16 0 8 13 15 16 23 33

9.0 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2
6.1 6.2 6.9 7.0 6.5 6.6 6.7 8.0 8.5 8.7 8.5 9.1 8.3 8.7
33 32 25 20 16 0 6 11 15 16 17 26 29 33

8.4 8.4 8.0 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1
7.7 7.9 8.5 8.7 8.0 7.9 7.9 9.2 11.5 11.7 11.8 11.0 12.0 12.0
33 31 24 20 16 0 7 8 14 20 24 27 31 33

Splice in Brace post E. Side Rd. Fence running E. Sta. 128+38

7.9 7.9 7.6 7.6 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8 7.8
8.5 11.0 11.1 7.7 9.3 7.6 6.6 7.0 6.9 11.3 11.7 11.8 11.1 12.1
33 31 24 22 20 17 13 0 3 7 14 22 31 33

8.0 7.8 7.8 7.6 7.6 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1
7.6 9.2 9.5 11.6 11.7 6.9 6.9 6.9 6.7 12.0 12.0 12.2 12.4
100 50 39 29 14 14 13 0 32 42 42 19 50 100

7.8 7.6 7.7 7.8 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1
8.8 11.9 10.9 9.8 6.6 6.9 7.2 11.3 10.9 10.8 10.3 10.4 10.2 10.2
33 25 21 14 12 0 3 4 12 15 17 24 33

8.0 8.0 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1
7.4 6.9 6.8 6.7 5.8 5.6 5.8 6.9 7.3 7.8 8.4 8.5
33 30 23 17 13 0 7 13 18 25 29 33

Sta. B.S. I.L. F.S. E/av.

915.43

141+00

① 10.40 924.71✓ 1.12 914.31✓

142+00

143+00

143+60

144+00

145+00

① 1.39 913.53✓ 12.57 912.14✓

146+00

147+00

148+00

B.M.
10/24/28

10.36 903.17✓

B.M. 1.71 904.88✓ 903.17

149+00

10.6	10.7	9.1	9.3	9.4	8.9	8.8	10.4	10.6	10.5	8.7	8.7	9.4	9.6	11.9	11.9
4.8	4.7	7.3	7.1	6.0	6.5	6.6	5.0	4.8	4.9	6.7	6.7	6.0	5.8	3.5	3.5
33	30	25	22	19	17	16	12	0	12	16	17	19	24	32	33

15.0	15.0	14.8	12.9	12.7	12.4	12.4	14.2	14.3	14.3	13.3	13.6	15.7	16.8
2.7	2.7	2.9	1.8	1.5	1.2	1.3	1.5	1.4	1.7	1.1	1.1	2.0	2.9
33	30	27	22	18	17	16	13	0	12	16	23	28	33

19.6	19.4	19.0	17.4	17.8	18.2	18.2	18.1	17.8	16.0	16.8	19.1
5.1	5.3	5.7	7.1	6.9	6.5	6.5	6.6	6.9	6.7	5.9	5.6
33	29	22	17	14	11	0	13	16	22	28	30

20.7	20.5	20.0	19.5	19.4	19.6	19.4	19.3	19.1	19.2	19.6	19.9
4.0	4.2	4.7	5.2	5.3	5.1	5.3	5.4	5.6	5.5	5.1	4.8
32	29	26	21	16	14	0	15	18	24	27	33

20.4	20.3	19.3	19.0	18.8	18.7	18.8	18.5	18.6	19.2	19.3
4.3	4.4	5.4	6.7	5.9	6.0	5.9	6.2	6.1	5.3	5.4
33	27	21	15	12	0	14	17	22	28	33

16.1	15.8	14.6	14.6	15.2	15.0	14.7	14.7	14.8
8.6	8.9	10.1	10.1	9.5	9.7	10.0	10.0	9.9
33	29	22	17	12	0	13	23	33

11.4	10.4	10.2	9.8	8.9	10.6	11.4	11.0	11.1	10.7	10.8	12.4	12.4	12.9
2.1	5.6	3.3	4.8	4.6	2.9	2.3	2.5	2.8	2.8	2.7	4.1	0.6	0.6
33	27	25	22	18	14	10	0	13	16	22	29	31	33

6.0	6.6	5.7	5.3	5.1	6.2	7.3	7.3	7.4	6.9	6.4	6.5	6.8	7.1	6.7	9.5
7.5	7.9	7.8	8.2	8.4	7.3	6.2	6.3	6.1	6.6	7.1	7.0	6.7	6.8	8.2	6.0
33	27	22	20	19	17	13	0	12	14	15	17	18	27	31	33

2.8	2.7	2.0	3.3	3.7	4.0	4.0	3.4	3.4	3.1	3.7
10.7	11.3	11.5	11.2	9.6	9.5	9.5	9.9	10.1	10.4	10.3
33	26	19	18	15	0	10	13	20	27	33

Spike in Tel. Pole #5392 E. Side Rd. Sta. 148+51

1.5	9.9	6.2	2.0	2.1	2.8	0.5	0.0	9.4	0.8	0.5	0.1
3.4	5.0	4.7	2.9	2.8	2.9	2.6	4.2	5.0	4.5	4.8	4.8
33	24	21	15	0	8	13	14	24	26	30	33

Sta. B.S. H.I. F.S. Elev.

904.88

150+00

150+50

151+00

152+00

① 4.05 896.97V 11.96 892.92V

153+00

154+00

155+00 = Need Curve here

156+00

① 4.78 894.10V 7.65 889.32V

156+60

157+00

158+00

38 99.4 97.7 97.9 99.0 99.2 99.9 0.6 1.5 1.3 1.1 0.5 99.0 98.8 98.8 98.8 99.2 99.2 99.2
41 53 72 20 51.9 51.7 51.0 4.3 3.4 3.6 3.8 4.4 5.9 6.1 6.1 5.6 5.7 5.6
33 27 28 27 27 24 22 18 14 10 9 12 14 15 16 19 22 26

41 31 98.9 98.7 98.0 98.4 0.2 0.4 99.3 99.1 98.1 98.7 97.9 98.1 0.0 99.7 99.4
0.8 1.0 6.0 6.2 6.9 6.5 4.7 4.5 5.1 6.8 6.8 6.2 2.0 6.8 4.9 5.2 5.3
34 32 26 24 22 17 13 0 10 13 15 16 18 20 23 24 33

1.9 0.5 98.9 97.4 96.4 96.2 99.9 98.7 98.2 94.9 96.4 97.1 97.0 98.9 98.4 98.4
3.0 4.4 6.0 7.5 8.5 8.7 6.0 6.2 6.7 8.5 8.5 7.8 7.9 6.0 6.3 6.5
33 31 29 23 22 19 10 0 10 13 14 15 19 25 27 33

99.5 99.1 98.1 96.1 94.0 93.9 95.6 95.5 95.4 93.8 93.7 96.6 96.7 96.4 95.7 95.6
5.4 5.8 6.8 8.8 10.9 11.0 7.3 7.6 7.5 11.1 11.2 8.7 8.2 8.5 8.2 7.3
33 29 2.0 2.2 2.1 1.9 1.6 0 0 3 15 13 10 13 23 28 33

96.1 95.2 94.4 92.2 92.2 92.5 92.6 12.8 92.7 91.2 91.9 93.8 94.0 94.2 93.8
0.9 1.5 2.6 4.7 4.8 4.5 4.4 4.2 4.3 5.8 5.1 3.2 3.7 2.8 3.2
33 30 26 23 20 19 17 0 6 9 13 12 19 24 33

91.8 91.2 90.7 90.2 90.2 91.0 91.2 91.2 90.0 89.4 89.3 90.0 90.1 90.0
5.2 5.8 6.3 6.8 6.8 6.0 5.8 5.8 7.0 7.6 7.0 6.9 7.0
33 29 24 24 23 21 0 3 8 9 10 12 19 33

90.5 90.1 90.1 89.8 89.2 89.0 88.0 87.8 86.4
6.5 6.9 6.9 7.2 7.8 8.0 8.0 9.2 10.1
33 31 21 13 0 8 25 33 50

89.4 89.3 89.4 89.4 89.3 89.0 87.8 87.2 87.0 87.5 87.3
7.6 7.7 7.6 7.6 7.7 8.0 9.2 9.8 10.0 9.3 9.7
33 30 23 19 0 4 6 12 20 24 33

89.7 88.8 88.7 89.3 89.1 89.1 88.9 88.0 87.6 87.1 87.8 87.4 87.6
4.4 5.3 5.4 5.8 5.0 5.0 5.2 6.1 6.5 7.0 6.3 6.2 6.5
33 28 23 20 11 0 4 8 15 19 21 27 33

90.3 90.1 89.7 89.4 89.4 89.6 89.6 89.3 89.4 89.5 88.4 87.4 87.5 87.4 89.9 89.7
3.8 4.0 4.2 4.9 5.2 5.5 4.5 4.3 4.5 4.6 5.7 6.7 7.0 6.6 6.5 5.2
33 30 28 23 22 20 19 10 0 4 9 11 13 14 20 33

89.7 89.0 87.5 87.5 87.4 86.5 89.1 88.1 85.9 86.8 86.8 86.9 87.6 86.9
4.4 5.2 6.3 6.6 6.7 5.6 6.0 6.0 8.2 8.1 7.3 7.3 6.8 7.2
33 27 23 22 20 17 0 5 11 12 13 16 20 33

Sta. B.S. H.I. F.S. Elev.

897.10

159+00

O 3.70 888.16✓ 9.67 884.76✓

160+00

161+00

162+00

B.M. 6.06 885.54✓ 8.68 879.48✓

163+00

164+00

165+00

O 3.55 881.23✓ 7.86 877.68✓

166+00

167+00

168+00

169+00

881	864	860	859	857	866	863	864	858	855	859	860	859	854	856	853
6.0	7.7	8.2	7.9	7.6	7.8	7.7	8.3	8.6	8.2	8.1	8.3	8.5	8.5	8.8	8.8
33	28	23	22	19	16	0	7	9	12	15	19	21	26	28	33

850	872	857	827	833	844	843	847	825	824	832	834	846	842		
4.2	1.0	2.5	5.3	5.5	4.9	3.8	3.9	4.0	5.7	5.8	5.0	4.8	3.6	4.0	
33	31	27	22	20	19	15	0	7	12	13	14	20	24	33	

841	823	819	813	816	824	824	825	804	800	797	802	805	814	801	
7.1	5.9	6.3	6.9	6.6	5.8	5.8	5.7	7.8	8.2	8.5	8.0	7.7	6.6	7.5	
33	27	23	22	20	17	0	5	10	12	13	17	21	24	33	

812	807	800	794	798	803	812	808	809	802	794	793	794			
2.0	2.5	8.2	8.3	8.4	7.9	7.0	7.7	7.9	8.0	8.6	8.9	9.4			
33	31	25	22	21	19	17	0	4	7	10	27	33			

Spike in 36' E/m H. side Rd. Star 162+50

808	808	803	798	795	793	804	803	802	794	783	782	790	779	782	
4.7	4.7	5.2	5.7	6.0	6.2	5.1	5.2	5.3	7.1	7.2	7.3	6.5	7.6	7.3	
33	31	27	22	21	19	16	0	6	13	17	22	24	28	33	

813	815	804	798	796	797	791	803	802	802	791	786	790	809	809	
4.2	4.0	4.9	5.7	5.9	6.3	6.4	5.2	5.3	5.3	6.7	6.9	6.5	4.6	4.3	
33	31	27	23	21	20	19	15	0	7	10	14	18	21	33	

858	843	832	799	792	789	792	804	802	806	798	800	807	811	798	795
1.7	1.2	2.3	5.6	6.3	6.6	6.3	5.1	5.3	4.9	5.7	5.9	4.8	4.8	5.7	6.0
33	30	25	23	20	19	16	15	0	6	10	12	14	21	24	33

791	792	780	772	771	773	773	773	761	758	766	770	768	766		
2.1	2.0	3.2	4.0	4.1	3.9	3.9	3.9	5.1	5.2	4.6	4.2	4.6	4.6		
33	28	22	20	18	16	0	7	10	12	13	18	24	24	33	

771	773	767	762	761	767	765	766	756	758	771	774	766	765		
7.1	3.9	4.5	5.0	5.1	4.5	4.7	4.6	5.6	5.2	4.1	3.8	4.6	4.7		
33	27	22	20	17	16	0	7	11	12	15	19	25	33		

759	764	756	752	759	758	762	756	756	771	777	766	762			
5.3	4.8	5.6	5.6	5.3	5.4	5.0	5.7	5.7	4.1	3.5	4.6	5.0			
33	25	21	18	17	0	7	11	12	16	19	26	33			

755	756	750	749	750	754	754	747	745	753	759	760				
5.9	5.7	6.2	6.3	6.2	5.8	5.8	6.5	6.7	5.9	5.3	5.2				
30	26	23	20	16	0	4	11	14	16	23	33				

Sta. B.S. H.I. F.S. E/v.

881.23

170+00

B.M.

5.98

875.26 ✓

10/25/29

AM.

B.M.

7.21

882.46 ✓

875.25

171+00

172+00

172+50

173+00

173+50

174+00

174+50

○

7.19

884.96 ✓

4.69

877.77 ✓

175+00

175+50

74¹ 74¹ 74⁵ 74⁰ 74⁰ 74¹ 74¹ 74⁹ 73⁹ 73⁹ 74⁵ 75¹
 71 6.5 6.7 7.2 7.2 6.5 6.5 6.3 7.3 7.3 6.7 6.1 ✓
 33 26 21 20 19 15 0 10 15 17 19 33

Spike in 24" Oak E. Side Rd. 171+06

" 74³ 74³ 74⁵ 73⁹ 73⁸ 74³ 74⁹ 70⁰ 74⁸ 73⁶ 73⁶ 74³ 74³ 74³
 52 8.2 8.0 8.6 8.7 8.2 7.6 7.5 7.7 8.4 8.4 8.2 8.2 8.2 ✓
 33 30 21 20 18 15 12 0 11 16 17 19 30 33

77² 77² 77⁰ 76⁸ 76³ 76³ 77⁰ 76¹ 76⁹ 76⁴ 76² 77² 77² 77⁹
 5.3 5.3 5.5 4.1 6.2 5.7 5.5 5.8 5.6 6.3 6.3 5.3 4.2 5.6 ✓
 33 26 19 18 16 15 11 0 13 15 17 19 27 33

79⁵ 79⁴ 78¹ 78¹ 78² 78⁵ 78⁹ 78⁵ 78⁹ 78⁶ 78⁶ 79¹ 79² 79³
 30 3.1 2.8 4.4 4.3 4.0 3.6 4.8 2.6 3.9 3.9 3.5 3.2 3.2 ✓
 33 24 18 16 14 13 9 0 14 16 17 18 27 33

79¹ 79⁰ 78⁶ 77⁹ 77⁹ 77⁹ 77⁹ 77⁸ 77⁸ 78² 78⁵ 78⁴
 31.7 3.5 3.4 4.6 4.6 4.6 4.6 4.7 4.7 4.3 4.0 4.1 ✓
 33 23 19 16 13 9 0 13 16 17 24 33

77⁹ 77⁵ 77³ 77³ 76⁴ 77¹ 77² 77⁴ 77⁶ 77³ 77¹ 76⁶ 76⁸ 77⁵
 4.7 5.0 5.2 5.2 5.6 5.4 5.3 5.1 4.9 5.2 5.4 5.4 5.7 5.0 ✓
 33 26 17 9 7 4 0 12 23 33 37 38 40 41

76¹ 76¹ 76² 76² 76¹ 77² 77² 77³ 77⁸ 78⁰ 78⁶
 6.4 6.6 6.3 6.3 5.8 5.3 5.3 5.2 4.7 4.5 3.9 ✓
 33 22 13 3 0 5 13 21 30 39 46

75⁸ 75⁹ 76¹ 76⁴ 77⁰ 77¹ 77⁴ 77⁰ 76⁴ 76⁴ 80⁰
 6.7 6.6 6.4 6.1 5.5 5.4 5.1 4.9 4.1 3.1 2.5 ✓
 33 21 9 2 0 7 14 21 25 33 41

75⁰ 75⁶ 75⁹ 76⁴ 76⁰ 77⁰ 77⁴ 78⁰ 79⁴ 80⁸ 81⁹ 82² 82⁹
 9.4 9.2 9.1 8.4 8.4 8.0 8.0 7.6 5.1 4.2 3.7 2.8 2.1 ✓
 33 27 18 17 15 8 0 12 10 20 29 33 43 50

76¹ 76⁴ 76⁹ 77¹ 77³ 77³ 77³ 78⁸ 80⁷ 81⁴ 82⁴
 8.4 8.6 8.1 7.9 7.7 7.7 7.7 6.7 5.2 4.3 3.6 2.4 ✓
 33 24 24 17 12 0 6 7 16 25 33 45

Sta. B.S. H.L. F.S. Elev.

884.96

176+00

76.8	76.9	77.3	77.3	77.6	77.8	77.8	78.4	79.4	80.0	80.7
8.3	8.1	7.7	7.7	7.4	7.2	7.2	6.6	5.6	5.0	4.3
33	27	27	19	11	6	7	12	21	27	33

176+50

77.1	77.4	77.7	77.8	77.9	78.4	78.7	79.4	80.0
7.7	7.6	7.3	7.2	7.1	6.6	6.3	5.6	5.0
33	24	16	8	6	13	21	27	33

177+00

77.9	77.5	77.7	78.0	78.1	78.7	79.2	79.8	80.1
7.7	7.5	7.3	7.0	6.9	6.3	5.8	5.2	4.9
33	28	20	10	6	11	21	30	33

177+50

78.1	78.0	78.7	78.9	78.5	78.7	79.2	79.5	80.0	80.1	80.8
6.9	7.0	6.3	6.1	6.5	6.3	5.8	5.5	5.0	4.9	4.2
33	25	16	12	7	6	12	19	27	28	33

0

5.45 885.11 ✓ 5.30 879.66 ✓

178+00

78.6	78.7	78.3	78.7	79.1	79.0	79.2	79.7	80.2	80.4	80.6	80.7
6.5	6.4	6.8	6.5	6.0	6.1	5.8	5.4	4.9	4.7	4.3	4.4
33	28	26	23	17	9	0	17	18	22	28	33

179+00

79.3	79.2	79.0	79.2	79.5	79.6	79.5	79.2	79.1	79.3	79.1	79.1
5.8	5.9	6.1	5.9	5.6	5.5	5.6	5.8	6.0	5.8	6.0	6.0
33	28	22	11	6	10	15	18	18	20	27	33

180+00

80.3	80.4	80.5	80.4	80.6	80.8	80.7	80.8	81.5	81.6	81.4
7.8	7.5	7.6	7.7	7.6	7.3	7.4	7.3	7.4	7.4	7.7
33	18	12	7	0	7	15	19	20	26	33

181+00

81.2	81.2	80.8	80.4	80.6	81.1	81.2	81.4	81.3	80.8	81.6	81.8
3.9	3.2	4.3	4.7	4.5	4.0	3.8	3.7	3.8	4.3	3.4	3.3
33	20	23	19	14	10	0	7	15	18	24	33

181+65

81.9	81.9	81.1	80.5	80.9	82.1	81.9	81.7	82.1	82.2	82.1	82.1
3.2	3.2	4.0	4.6	4.2	3.0	3.3	3.4	3.0	2.9	3.0	3.0
33	25	22	18	12	7	0	11	16	23	30	33

B.M. 1.62 882.90 ✓ 3.83 881.28 ✓

Spike in 18" Oak N. Side Rd. Sta. 182+00 Approx. 40' from E

182+00

81.3	81.3	80.2	80.3	81.0	80.8	80.8	80.5	80.7	81.5	81.7
6.6	6.6	2.7	2.6	1.9	2.1	2.1	2.4	2.1	1.2	1.2
33	22	18	12	5	0	14	18	24	20	33

183+00

79.8	78.4	78.7	78.7	78.1	78.4	77.7	77.1	77.6	78.1	78.2
8.1	7.5	7.2	7.2	6.8	6.3	6.2	5.8	5.8	5.3	4.8
33	25	20	16	9	7	0	10	20	24	29

Sta. B.S. H.I. F.S. Elev

184+00 882.90

B.M. 7.36 884.03 ✓ 6.23 876.67 ✓

184+195 = Conc. Culv.

185+00

186+00

186+91.6 = Rd. N. & S.

B.M. 7.36 876.67

Finished 10:30 A.M. 10/25/28

clear-cool.

A.M. 9/23/29 D.S.B. G.S.C. D.T.G.

B.M. 4.67 881.34 876.67

B.M. 3.98 877.36

72.8 72.8 72.9 73.4 73.6 74.1 76.1 76.2 76.2 76.6 76.1 75.1
 10.1 10.1 10.0 9.7 9.3 8.2 6.8 6.7 6.7 7.3 7.8 7.8
 33 26 19 9 5 0 6 12 20 21 29 33
 on S. Hdwl. Conc. Culv. Sta. 184+195
 Water: 72.9 72.9 72.9 71.1 71.1 76.1 76.5 76.5 76.5 76.5 72.7 72.7
 11.1 11.1 11.1 6.9 6.9 7.3 7.5 7.5 7.5 7.5 11.3 11.3
 29 0 2 2 3 3 12 20 20 21 21 50

77.9 78.2 76.9 76.0 75.7 76.3 77.1 77.3 77.3 77.3 77.1 76.0 75.8 77.5 78.0
 6.1 5.8 7.1 8.0 8.3 7.8 6.9 6.7 6.8 6.7 6.9 8.0 8.2 6.5 6.0
 33 31 27 25 17 12 9 5 0 8 16 19 23 27 33

74.5 75.7 77.6 77.3 77.6 79.2 79.4 78.8 77.0 76.7 76.8 79.1 79.4 79.0
 6.5 5.3 6.7 6.7 6.8 4.8 4.6 5.2 7.0 7.3 7.2 7.4 7.4 5.0
 33 28 25 22 18 13 0 16 16 18 21 24 28 33

79.8 79.7 79.6 79.7 79.8 79.8 79.6 79.3 78.5 77.5
 4.2 4.3 4.4 4.3 4.2 4.2 4.4 4.7 5.5 6.5
 100 50 33 19 0 14 33 50 100 200

on S. Hdwl. Conc. Culv. Sta. 184+195

on S. Hdwl. Conc. Culv. Sta. 184+195

Spike in Oak S. Side Rd. Sta. 183+55 Approx. 60' from #

5/14/29 AM.

D.S.B.
D.T.G.
M.B.H.Raymond-Gilbertville Co. Rd.
Levels on 6" Tile W. Side Rd.

54

Sta.	B.S.	H.I.	F.S.	Elev.	Grade	Cut.
B.M.	1.50	893.28		891.78		
B.M.			10.93	882.35		
Outlet			17.30	875.98		
1+10=128+00			16.54	876.74	875.98	0.76
128+50			13.41	879.87	876.99	2.88
129+00			12.28	881.00	878.00	3.00
130+00			9.68	883.60	881.00	2.60
131+00			6.80	886.48	883.42	3.06
132+00			4.10	889.18	885.56	3.62
133+00			1.82	891.46	888.28	3.18
0	13.56	905.54 ✓	1.30	891.98 ✓		
134+00			11.71	893.83	890.71	3.12
135+00			8.71	896.83	893.14	3.69
136+00			6.50	899.04	895.57	3.47
137+00			4.30	901.24	898.00	3.24
138+00			2.39	903.15	900.25	2.90
139+00			0.30	905.24	902.50	2.74
0	14.84	920.08 ✓	0.30	905.24 ✓		
140+00			12.55	907.53	904.75	2.78
141+00			9.59	910.49	907.00	3.49
142+00			5.63	914.45	910.50	3.95
143+00			1.93	918.15	914.00	4.15
143+50			0.89	919.19	915.00	4.19

Spike in 36" Cottonwood W. Side Rd. Sta. 133+07

Spike in E. Hdwl. Conc. Culv. Sta.

= Outlet in S. side of bbl. W. End Cut Sta. 129+880

= End 6" Tile here

5/14/29 A.M.

D.S.B.
D.T.G.
M.B.H.Raymond - Gilbertville Co. Rd.
Levels on 6" Tile E. Side Rd.

55

Sta.	B.S.	H.I.	F.S.	Elev.	Grade	Cut.
B.M.	1.50	893.28		891.78		
B.M.			10.93	882.35		
Outlet			12.25	876.03		
0+00 = 128+00			16.32	876.96	876.03	0.93
128+50			11.55	881.73	877.02	4.71
129+00			10.90	882.38	878.00	4.38
130+00			9.12	884.16	881.00	3.16
131+00			6.76	886.52	883.43	3.09
132+00			3.48	889.80	885.86	3.94
133+00			1.30	891.98	888.28	3.70
①	13.56	905.54 ✓	1.30	891.98		
134+00			11.15	894.39	890.71	3.68
135+00			8.31	897.23	893.14	4.09
136+00			6.20	899.34	895.57	3.77
137+00			4.07	901.47	898.00	3.47
138+00			2.01	903.53	900.25	3.28
139+00			0.49	905.05	902.50	2.55
①	14.84	920.08 ✓	0.30	905.24 ✓		
140+00			12.63	907.45	904.75	2.70
141+00			9.59	910.49	907.00	3.49
142+00			6.67	914.01	910.50	3.51
143+00			2.09	917.99	914.00	3.99
143+50			0.69	919.39	915.00	4.39

Spike in 36" Cottonwood W. Side Rd. Sta. 133+07

Spike in E. Hdwl. Conc. Culv. Sta. 127+

Outlet = End of W. at S.E. Wing Conc. Culv. Sta. 128+00

End 6" Tile here

8/17/29 AM.

D.S.B. - C.J.C.
D.T.G. - M.B.H.Raymond - Gilbertville Co. Rd.
Levels on 6" Tile West side Rd

55

Sta.	B.S.	H.I.	F.S.	Elev.	Grade	Cut
B.M.	7.69	910.94 ✓		903.23		Spike in Walnut S.E. Cor. Intersection Sta. 95+60
Outlet			11.50	899.44		
94+50 = Outlet			11.28	899.66	898.00	1.66 = Outlet in West ditch
95+00			9.44	901.50	898.25	2.25
96+00			7.72	903.22	900.17	3.05
97+00			5.94	905.00	902.08	2.92
98+00			3.59	907.35	904.00	3.35
99+00			0.95	909.99	906.20	3.79
0	7.08	917.07 ✓	0.95	909.99 ✓		
100+00			4.38	912.72	908.40	4.32
100+50 = Top of Hill			3.94	913.16	909.50	3.66
101+00			4.52	912.58	909.00	3.58
102+00			7.22	909.88	906.00	3.88
103+00			10.52	906.58	903.00	3.58
104+00			11.27	905.83	901.81	4.02
0	4.44	910.24 ✓	11.27	905.80 ✓		Note: - 40' Crossing Rd Sta. 104+68 ^W to 105+00 E. side Rd.
104+68			5.30	904.94	901.00	3.94 = Cross Rd to E. side Sta. 105+00

Note: 104+68 West + 40' crossing road
= 105+00 East side Road and junction.

5/17/29

A.M.

D.S.B.-C.N.C.
D.T.G.-M.B.H.Raymond-Gilbertville Co. Rd.
Levels on 6" Tile East side Rd.

57

Sta.	B.S.	H.I.	F.S.	Elev.	Grade	Cut.
B.M.	7.69	910.94		903.25		
Outlet			11.90	899.04		
94+75 = Outlet			11.72	899.22	898.60	0.62 = Outlet in East ditch
95+00			10.03	900.91	898.79	2.12
96+00			8.72	902.22	899.50	2.72
97+00			6.32	904.62	901.88	2.74
98+00			3.71	907.23	904.25	2.98
99+00			1.29	909.65	906.63	3.02
0	7.08	917.07 ✓	0.95	909.99	909.00	
100+00			4.40	912.70	909.00	3.70
100+50 = Top of Hill			3.85	913.25	909.50	3.75
101+00			4.39	912.71	909.00	3.71
102+00			7.57	909.53	906.88	2.65
103+00			9.35	907.75	904.76	2.99
104+00			11.02	906.08	902.64	3.44
0	4.44	910.24 ✓	11.27	905.80 ✓		
105+00			6.18	904.06	900.50	3.56 = West side junction with E. side Rd.
105+25			8.75	901.49	900.50	0.99 = Outlet in E. ditch
B.M.			6.70	901.36		Spike in Fence-post E. side Rd. Sta. 100+00

1935. 1 M.P. N. of Sec 11-88-12

D.T.G.
C.V.C.
3-27-35

Transit Notes

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3

2

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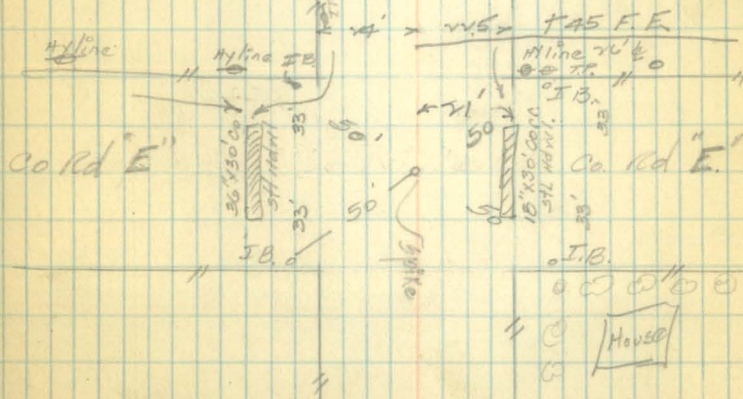
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Sec 2-88-12

Pasture

cultivated

Sec 11-88-12



13

12 ✓

10

9

8

7

cultivated

Cultivated

 $\neq 11.5$

425

681

1940

5. Мелко

266

 $+94$

735

nive 727

710.8

+73.5 ϕ 3'x3'x44' CONC Box

Good Condition DR. 160 cc S. Colling

Sec 8-88-12

+75
Lane +41

+31

+54
+45 ϕ Drive

cult

cult

15'x10' CONC

15'x10' CONC

10.6 11.2

cult

Pasture

Sec 11-88-12

+40
+40

Box

30

29

28

27

+77.5 stone + Bar = P.I.

26

25

24

23

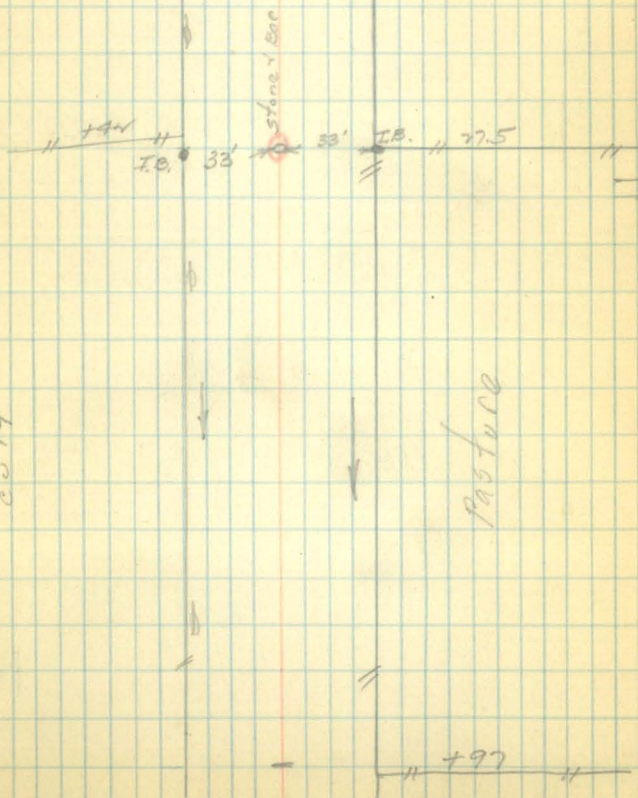
22

cult.

cultivated

cult

pasture



+40.0

+40.0

cultivated

FE. +51

cultivated

9.3 10.7
15" x 40

7' 13'
15" x 40

39

38

37

36

35

+83.0 4 15' x 20' corr. pipe DRAC. 60000

34

+24.0 4 15" x 20' corr pipe

33

32

31

98

97

96

95

94

93

92

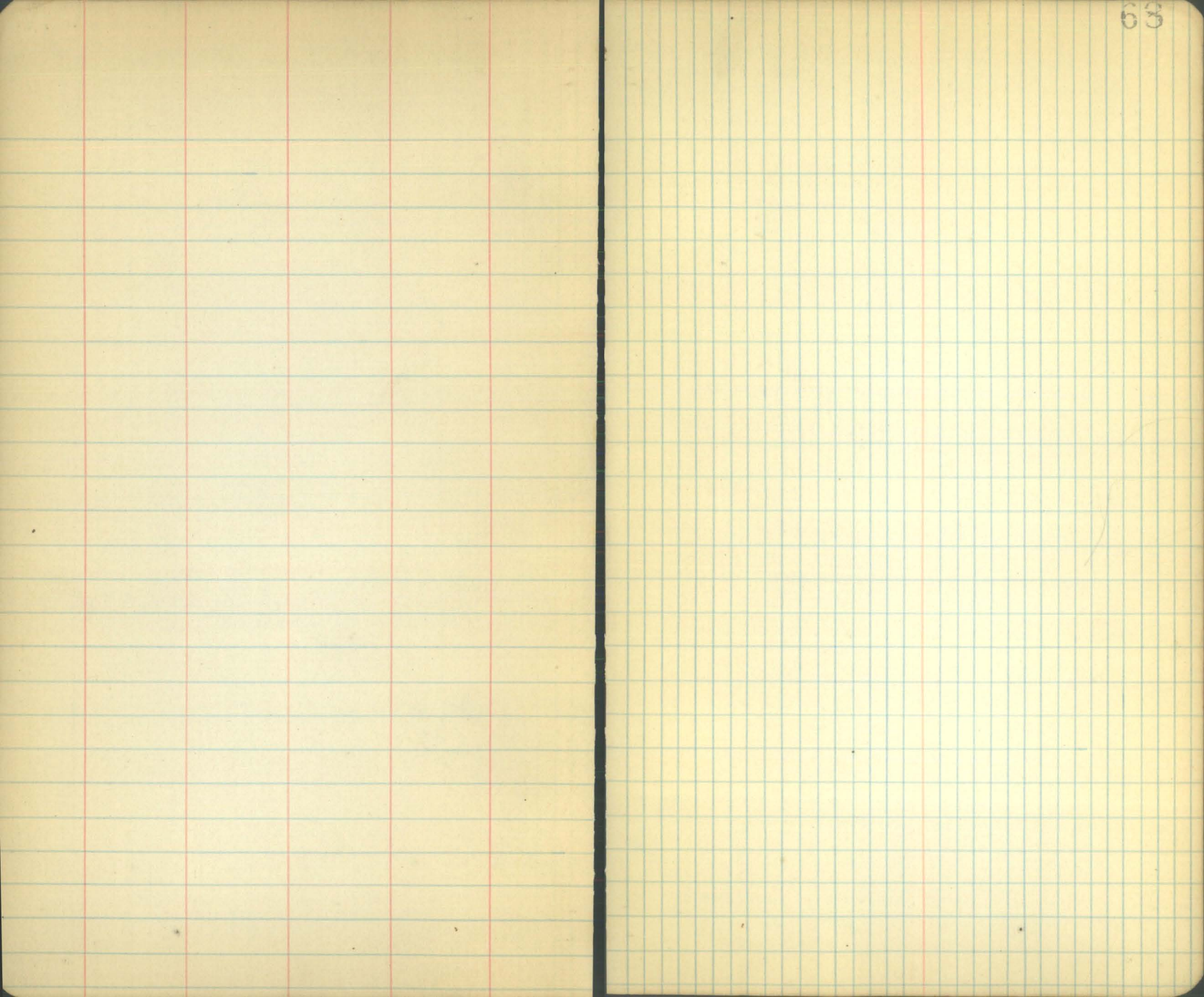
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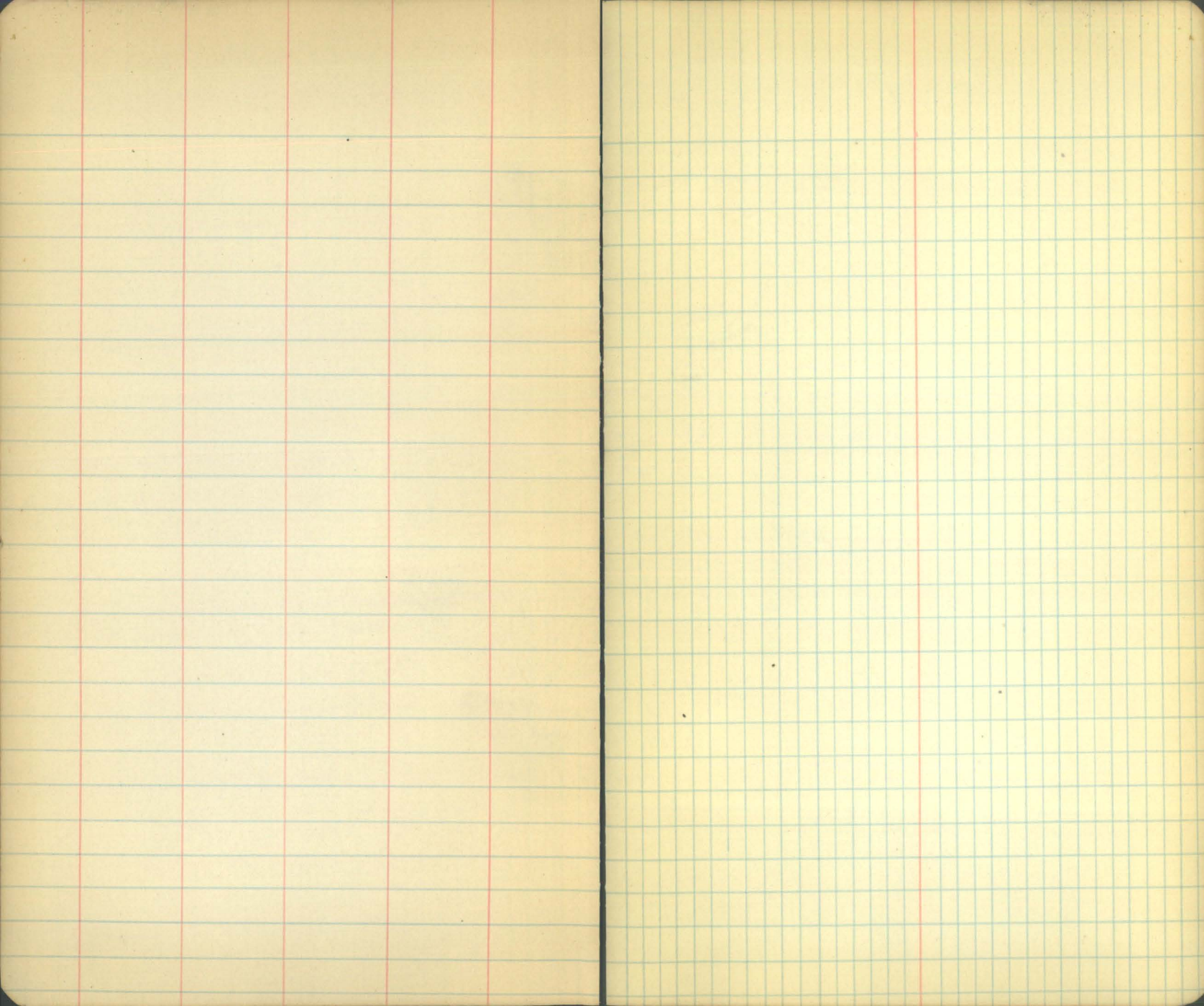
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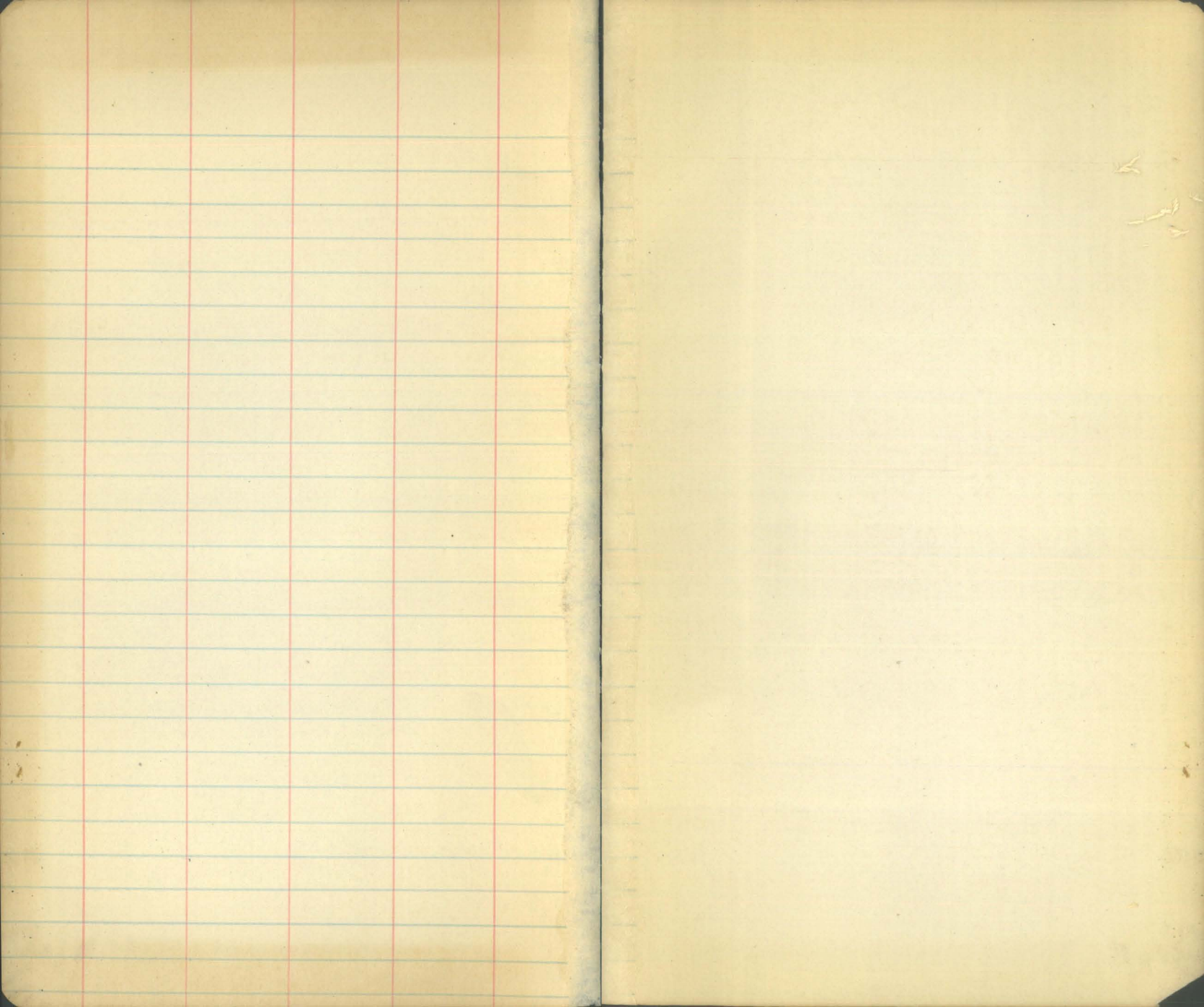
93

cultivated

cultivated







20163
20130

27

50 + 60.3
39 + 40

13 193

39 + 40

26 + 27.5

13 125

3