

THIRD-ORDER LEVELS
SEA LEVEL DATUM OF 1929

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

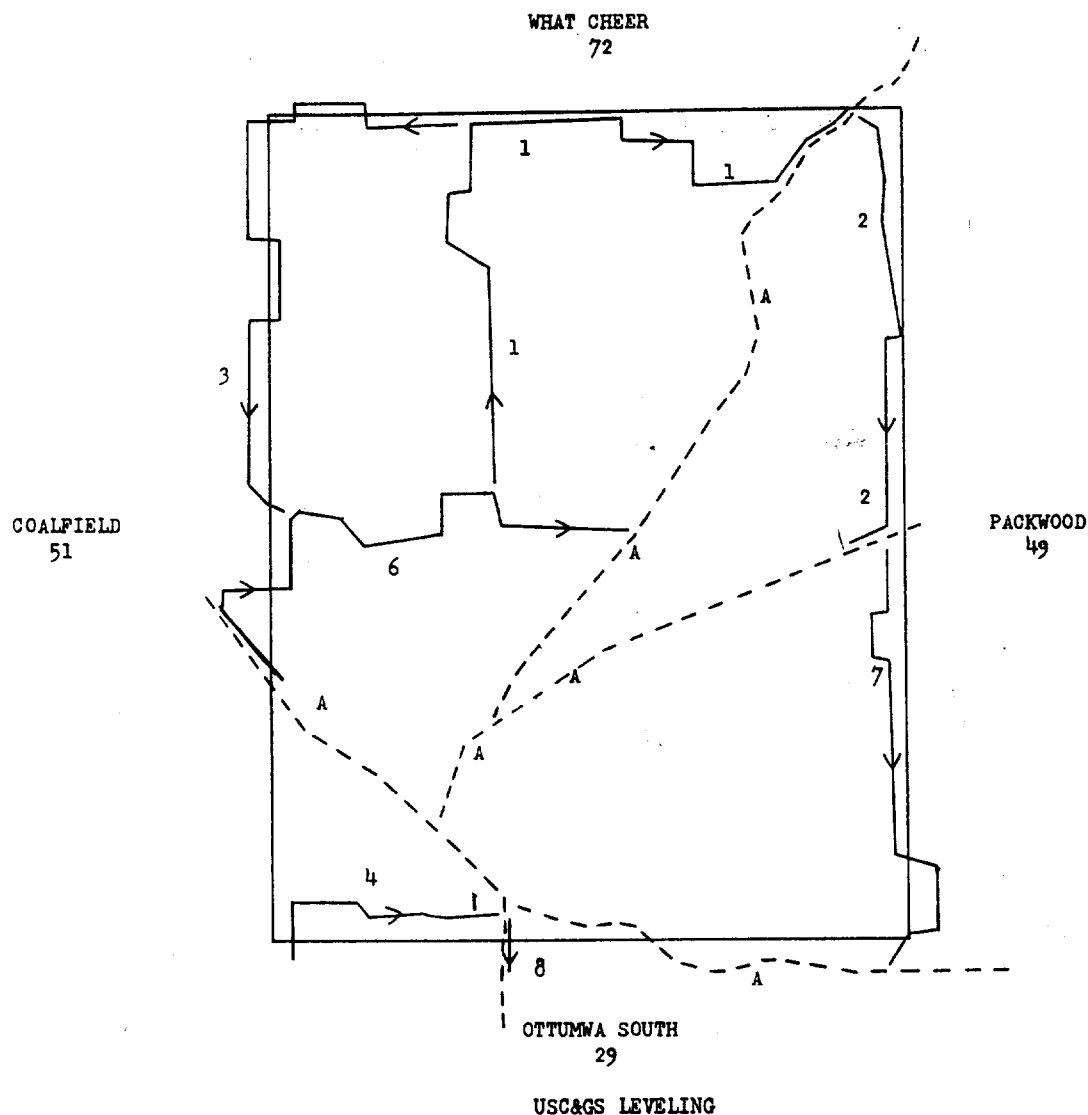
OTTUMWA NORTH QUADRANGLE
50 - Iowa
N4100-W9215/15
Diagram NK 15-8
Des Moines, Iowa

Final Adjustment of 1967

Wapello, Mahaska, Keokuk Counties

Edition of 5/12/67

PR: EF/VN/sb



A. Quadrangle No. 410922, adjustment of 1931, 1937, 1953

Feet

LINE 1.

NORTH THROUGH $N\frac{1}{2}$ OF QUADRANGLE THENCE EAST ALONG NORTH BORDER (By M. V. Thompson, 1955;
Book CV 694)

OTTUMWA NORTH QUAD. - 50

0.0	UE, T. 73 N., Rs. 13 and 14 W., near cor. secs. 7, 12, 13 and 18, center of U. S. Highway 63 at T-rd. W.; chiseled square	754.21
0.5	UE, painted square, center of Hwy. 63, at fence W.	769.22
0.9	Reference mark-spike in power pole, 350 ft S. of tablet, 35 ft W. of center of Hwy. 63.	747.35
0.9	Fremont, 4.5 mi S. and 1.3 mi E. of, 340 ft S. of a T-rd. E., at the cor. secs. 1, 6, 7 and 12, T. 73 N., Rs. 13 and 14 W., 33 ft W. of center of U.S. Hwy. 63, 2 ft E. of fence, 14 ft N. of center of wire gate into barn lot, in a concrete post; a standard tablet stamped "44 MT 1955 757"	757.399
1.5	UE., painted square, center of Hwy. 63, at fence E.-W.	794.47
2.0	UE, copper nail and washer, crossroads on Hwy 63	793.57
2.5	UE, copper nail and washer, center of Hwy. 63, at T-rd. W.	805.97
3.2	Fremont, 2.5 mi S., and 1.3 mi E. of, 0.2 mi N. of a T-rd. E., (Junction U.S. Hwy 63 and State Hwy. 149) at the cor. secs. 25, 30, 31 and 36, T. 74 N., Rs. 13 and 14 W., 330 ft S. of fence cor. 41 ft W. of center of Hwy. 63, 1 ft E. of fence, 2 ft NW. of power pole, in a concrete post; a standard tablet stamped "45 MT 1955 811"	811.046
3.2	Reference mark-spike in power pole, 360 ft N. of tablet, 40 ft W. of center of Hwy. 63, at farm house	810.47
3.5	UE, copper nail and washer, in center of Highway 63, at fence W.	788.20
4.0	UE, copper nail and washer, center of Hwy 63, at crossroads	814.58
4.5	UE, copper nail and washer, in center of Hwy. 63, at fence W.	835.23
4.9	Fremont, 0.6 mi S., and 1.3 mi E., of 0.1 mi S. of the cor. secs. 13, 18, 19, and 24, T. 74 N., Rs. 13 and 14 W., at the S. end of a long curve on U.S. Hwy. 63, 600 ft straight S. of a dirt rd. RR. crossing, 67 ft W. from center of hwy. on curve, 1 ft E. of fence, 19 ft W. of power pole, in a concrete post; a standard tablet stamped "46 MT 1955 837"	836.877
4.9	Reference mark-spike in power pole, 310 ft N. of EM, on E. side of Hwy. at curve	836.69
5.5	UE, copper nail and washer in center of Hwy 63, at fence S.	843.07
6.1	UE, copper nail and washer in board near S. rail of RR. crossing in E. part of Fremont	843.02
6.5	Station is in the village of Fremont, on the N. edge of the right-of-way of the Missouri and St. Louis RR. Co. The station mark is in the N. part of the town, 170 ft N. of the N. cor. of the Fremont Depot, 70 ft N. of the N. rail of the northernmost track, 15 ft S. of the intersection of three fences, and projects 2 in. A USC&GS standard disk stamped Fremont, 1934.	841.921

3
OTTUMWA NORTH QUADRANGLE
50 - Iowa

LINE 1. (Cont'd.)

Feet

OTTUMWA NORTH QUAD. - 50

6.9	UE, spike in transformer power pole at fence cor. on W. side of rd. at center of 90° turn	825.82
7.4	UE, spike in power pole, 40 ft E. of rd., at 90° turn	841.39
7.9	UE, spike in power pole, 30 ft E. of rd., and 80 ft N. of fence cor.	836.82
8.3	Fremont, 1.5 mi N., and 1.0 mi E., of 368 ft S. of a T-rd. W., near the quarter cor. secs. 1 and 12, T. 74 N., R. 14 W., 30 ft E. of center of rd., 3 ft S., and 1 ft W. of fence cor. in a concrete post; a standard tablet stamped "T T 33 MT 1955 802"	801.782
8.3	Reference mark-spike in power pole, 30 ft E. of rd., and 80 ft N. of tablet	796.92
8.9	UE, copper nail and washer in center of wooden floor of steel frame bridge	721.15
9.5	UE, spike in telephone pole in SE. cor. of crossroads	726.68
9.8	UE, copper nail and washer at NE. end of SW. wingwall of bridge	705.53
10.2	UE, spike in power pole in SE. cor. of crossroads	772.40
10.8	Fremont, 2.5 mi N., and 2.0 mi E. of 419 ft W. of a T-rd. S., at cor. secs. 5, 6, 31, and 32, Tps. 74 and 75 N., R. 13 W., 39 ft S. of center of rd., 12 ft E. of center of wire gate, 3 ft N. of fence, 2 ft NW. of power pole, in a concrete post; a standard tablet stamped "T T 42 MT 1955 728"	727.987
10.9	Reference mark, spike in power pole, 60 ft SW. of crossroads, 400 ft E. of tablet	763.63
11.5	UE, spike in transformer power pole, 30 ft S. of rd. at farm house	808.21
11.9	UE, spike in E. post of wooden gate, 40 ft N. of T-rd. S.	773.88
12.4	UE, 1-in. pipe projecting 8 in. above ground, 6 ft SE. of fence cor., 30 ft E. of rd. N., and 5 ft N. of center of rd. W.	784.75
13.2	Reference mark, spike in power pole, 30 ft W. of center of rd., and 260 ft N. of tablet	811.94
13.3	Hedrick, 4.7 mi N., and 3.0 mi W. of, at a 90° rd. turn near center of S $\frac{1}{2}$ of sec. 4, T. 74 N., R. 13 W., 140 ft SW. of center of rd., on curve, 7 ft N., and 1 ft E. of fence cor. and gate post for wooden gate, in a concrete post; a standard tablet stamped "T T 41 MT 1955 804"	803.822
13.8	UE, spike in power pole, 40 ft SE., of T-rd. S.	816.33
14.3	UE, spike in power pole, 50 ft SW. of center of E.-W. rd. at field entrance N.-S., 1000 ft W. of farm building	753.84
14.8	UE, spike in power pole, 70 ft SW. of T-rd. W.	723.52
15.5	UE, spike in power pole, 80 ft SE. of crossroads	803.90
15.8	Reference mark-spike in telephone pole, 30 ft N. of rd., 60 ft N. of tablet	804.85
15.5	Hedrick, 4.0 mi N., and 1.5 mi W. of, 1400 ft E. of crossroads at quarter cor. secs. 10 and 11, T. 74 N., R. 13 W., 76 ft W. of center of driveway to farm house, 12 ft W. of concrete sidewalk, 41 ft S. of center of rd., 1 ft N. of fence, 1 ft S., and 2 ft W. of power pole, in a concrete post; a standard tablet stamped "T T 40 MT 1955 804"	803.850

4
OTTUMWA NORTH QUADRANGLE
50 - Iowa

LINE 1. (Cont'd.)

Feet

OTTUMWA NORTH QUAD. - 50

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| 16.3 | UE, spike in power pole, 30 ft S. of T-rd. N. | 794.56 |
| 17.1 | Hedrick, 4.0 mi N. of, near center of E $\frac{1}{2}$ sec. 12, T. 74 N., R. 13 W., 0.5 mi E. of T-rd. S., 0.2 mi W. of T-rd. W., 37 ft N. of center of rd., 17 ft E. of center of wooden gate, 1 ft S. of fence, in a concrete post; a standard tablet stamped "T T 39 MT 1955 681" | 680.842 |
| 17.2 | Reference mark, E. end of S. curb-rail on concrete bridge, 200 ft W. of T-rd. W., and 780 ft E. of tablet, chiseled square | 679.88 |
| 17.9 | UE., copper nail and washer in floor, at center of steel truss bridge over Skunk River | 674.67 |
| 18.5 | UE, copper nail and washer in rail tie at S. end of RR. bridge 306, 0.2 mi N. of milepost 15 | 672.75 |
| 18.9 | UE, copper nail and washer in tie at S. end of RR. Bridge 1-304, 0.5 mi S. of milepost 16 | 670.84 |
| 19.4 | About 1.8 mi SW. along the Chicago, Milwaukee, St. Paul and Pacific RR. from the station at Hayesville, Keokuk County, at milepost 16, 39 ft SE. of the center of a public rd. crossing, 14 ft S. of the center of the rd., 8 ft W. and 1 ft. N. of a right-of-way fence cor. and about level with the rail, a standard USC&GS disk stamped "R 86 1934" and set in the top of a concrete post. (Recovered in good condition) | 691.160 |

LINE 2.

SOUTH ALONG NORTH ONE HALF EAST BORDER (By M. V. Thompson, 1955; Book CV 694)

OTTUMWA NORTH QUAD. - 50

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| 0.0 | USC&GS standard disk stamped "R 86 1934" (Previously described in Line 1) | 691.160 |
| 0.7 | UE, copper nail and washer in wooden floor of steel truss bridge at center of channel (Skunk River), | 670.87 |
| 1.3 | UE, painted square, on top of N. end of metal pipe culvert, 40 ft NW. of crossroads | 723.4 |
| 1.8 | Martinsburg, 3.6 mi N. of, at the quarter cor. secs. 8 and 9, T. 74 N., R. 12 W., 55 ft S. of fence cor., 34 ft E. of center of rd., 1 ft W. of fence, 2 ft S. of power pole, in a concrete post; a standard tablet stamped "T T 38 MT 1955 795" | 794.707 |
| 1.9 | Reference mark, spike in telephone pole, 30 ft E. of rd., and 400 ft S. of tablet | 784.34 |
| 2.4 | UE, copper nail and washer in center of E. curb-rail of bridge | 701.14 |
| 3.4 | UE, spike in telephone pole, 40 ft NE. of crossroads | 801.65 |
| 3.8 | Martinsburg, 1.5 mi N. of, near center of NW $\frac{1}{4}$ sec. 21, T. 74 N., R. 12 W., 303 ft N. of crossroads near SE. cor. of the yard of farm residence. 31 ft W. of center of rd., 2 ft SE. of fence cor., 8 ft S. and 3 ft E. of power pole, in a concrete post; a standard tablet stamped "T T 37 MT 1955 814" | 814.129 |

5
OTTUMWA NORTH QUADRANGLE
50 - Iowa

LINE 2.(Cont'd.)

Feet

OTTUMWA NORTH QUADRANGLE- 50

3.9	Reference mark, spike in telephone pole, 40 ft NE. of crossroads, 260 ft S. of tablet	809.86
4.4	UE, spike in power pole, 35 ft E. of T-rd. W.,	814.19
5.1	UE, copper nail and washer, 18 in. S. of center of railway crossing in Martinsburg	813.10
5.4	UE, center of Hwy. 149 in Martinsburg, at T-rd. N.	809.35
5.6	UE, copper nail and washer at center of R-rd. S., at W. edge of Martinsburg	802.50
6.1	UE, spike in telephone pole at fence cor. 40 ft E. of rd.	808.31
6.6	Reference mark, spike in power pole, 40 ft NW. of crossroads, 250 ft SW of tablet	795.45
6.6	Martinsburg, 1.0 mi S. and 0.3 mi W. of, 285 ft N. of crossroads at cor. secs. 4, 5, 32 and 33, Tps. 73 and 74 N., R. 12 W., 33 ft E. of center of rd., 1 ft W. of fence, 2 ft S. of telephone pole, in a concrete post a standard tablet stamped "T T 35 MT 1955 800" Rd. has been widened, 33 ft E. of center of rd. is in ditch 4 ft deep, from center of rd. to E. right-of-way fence is 55 ft.	800.265
7.1	UE, spike in N. post of gate at field entrance and field line E., 40 ft E. of center of rd.	793.27
7.6	UE, spike in telephone pole, 50 ft SW. of crossroads	803.29
8.1	UE, spike in telephone pole, 50 ft SW. of T-rd. W.	785.34
8.4	Farson, 1.0 mi N. of, 0.15 mi S. of a T-rd. W., at the quarter cor. secs. 8 and 9, T. 73 N., R. 12 W., in the yard of a farm residence, 44 ft E. of center of rd., 55 ft N. of S. fence of yard, 8 ft S. of center of driveway, in a concrete post; a USC&GS and State Survey disk two in. below surface of ground and stamped "90 No. 5" (Desc. & Elev. by USGS)	804.781
8.6	Reference mark, spike in cor. fence post, 50 ft NE. of T-lane E., and 560 ft N. of tablet	804.87
8.7	Farson, 0.7 mi N. of, 545 ft S. of a T-lane E., at cor. secs., 8, 9, 16 and 17, T. 73 N., R. 12 W., 98 ft N. of fence cor., 32 ft E. of center of rd., 2 ft W. of fence, 3 ft SE. of telephone pole, in a concrete post; a standard tablet stamped "T T 34 MT 1955 803"	802.833
9.6	UE, copper nail and washer in center of railway crossing at Farson, 600 ft W. of railway station	801.03
10.1	UE, copper nail and washer in plank, 1 ft S. of center of dim field entrance railway crossing (fence to S. from crossing)	790.81
10.6	About 1.5 mi W. along the Chicago, Milwaukee, St. Paul and Pacific RR. from the station at Farson, Wapello County, at bridge 1-1134, in the top of the E. abutment, and N. of the track, a standard disk stamped "F 6 RESET 1943" (772.813 ft). NOTE: This BM was established and its elevation determined by engineers of the Chicago, Milwaukee, St. Paul and Pacific RR. in May 1943.	772.812

6
OTTUMWA NORTH QUADRANGLE
50 - Iowa

LINE 2. (Cont'd.)

Feet

OTTUMWA NORTH QUADRANGLE - 50

- 11.8 UE, copper nail and washer in center of railway crossing 777.05
- 12.8 About 3.0 mi SW. along the Chicago, Milwaukee, St. Paul and Pacific RR. from Farson, Wapello County, at bridge 1-1138 over a N. and S. hwy., and in the guard rail of the NW. wingwall, a standard disk stamped "751.127 E 6 1930" 751.127

LINE 3.

IN NORTHWEST QUARTER OF QUAD. WEST ALONG NORTH BORDER THENCE SOUTH ALONG WEST BORDER (By M. V. Thompson 1955 Book CV 694)

OTTUMWA NORTH QUAD. - 50

- 0.0 UE., 726.8 (Previously described in Line 1) 726.68
- 0.5 UE, spike in telephone pole at fence cor. 30 ft N. of rd., 100 ft S. of house on top of hill 812.84
- 1.0 Reference mark, spike in telephone pole, 30 ft N. of rd., 210 ft W. of crossroads and 200 ft NE. of tablet 788.04
- 1.1 Fremont, 2.5 mi N., and 0.5 mi W. of, 382 ft W. of crossroads, at quarter cor. secs. 2, and 35, T. 74 N., R. 14 W., 35 ft S. of center of rd., 15 ft W. of fence cor. 1 ft N. of fence, 2 ft NW. of telephone pole, in a concrete post; a standard tablet stamped "T T 32 MT 1955 778" 778.383
- 1.6 UE, painted square on E. end of 4 ft concrete pipe culvert, 25 ft S. of center of rd., and 30 ft E. of T-lane N. 751.2

WHAT CHEER - 72

- 2.2 UE, copper nail and washer in center of top of S. rail, small wooden bridge, 300 ft E. of T-rd. E. 746.68
- 3.0 UE, spike in telephone pole, 30 ft S. of rd. opposite white house, 0.3 mi W. of rd. turn, 700 ft E. of T-rd. N., 840.07
- 3.4 Fremont, 3.0 mi N., and 2.0 mi W. of, 580 ft E. of T-rd. S., at center of sec. 33, T. 75 N., R. 14 W., 33 ft N. of center of rd., 18 ft W. of center of wooden gate, 1 ft S. of fence, in a concrete post; a standard tablet stamped "T T 31 MT 1955 836" 836.428
- 3.5 Reference mark, spike in power pole at T-rd. S., 30 ft N. of center of E.-W. rd., 25 ft W. of chute into cattle pen, 580 ft W. of tablet 837.12
- 4.0 UE, spike in power pole, 100 ft SW. of T-rd. E., 833.39
- 4.5 UE, spike in power pole at W. end of sharp rd. curve, 30 ft N. of rd., and 40 ft W. of extended tangent of center of driveway to S. 836.28
- 5.1 UE, spike in guy pole in ditch, 30 ft S. of rd. at driveway to farm house N. 841.98

COALFIELD QUAD. - 51

- 5.4 Fremont, 2.7 mi N., and 3.5 mi W. of, 470 ft E. of rd. forks, near cor. secs. 5, 6, 31 and 32, Tps. 74 and 75 N., R. 14 W., 29 ft S. of center of rd., 97 ft E. of fence cor., 1 ft N. of fence, 2 ft SW. of telephone pole, in a concrete post; a standard tablet stamped "T T 30 MT 1955 847" 846.809

7
OTTUMWA NORTH QUADRANGLE
50 - Iowa

LINE 3., (Cont'd.)

Feet

COALFIELD QUAD. - 51

- 5.4 Reference mark, spike in telephone pole in ditch, 30 ft S. of rd. and 115 ft E. of center of grass triangle at T-rd. E., 330 ft W. of tablet 843.83
- 5.9 UE, spike in power pole, 50 ft SW. of railway crossing 838.26
- 6.5 Fremont, 1.5 mi N. and 3.7 mi W. of, 34 ft N. and 30 ft E. of crossroads at cor. secs. 5, 6, 7 and 8, T. 74 N., R. 14 W., 3 ft W. of fence cor. in a concrete post; a standard tablet stamped "17 MAC 1923 RESET 818" 818.186
- 6.6 Reference mark, spike in power pole, 50 ft SW. of crossroads, and 90 ft SW. of tablet 817.34
- 7.1 UE., spike in power pole, 30 ft W. of rd., 15 ft S. of fence cor. 830.22
- 7.5 UE, spike in 8-in. post at fence cor., 40 ft E. of center of rd. 821.12
- 8.0 UE, spike in telephone pole, 25 ft N. of fence cor. 70 ft NE. of T-rd. N., on Hwy 63 820.67

OTTUMWA NORTH QUAD. - 50

- 8.7 Fremont, 0.5 mi S. and 3.5 mi W. of, about 0.25 mi E., and 0.1 mi N. of cor. secs. 17, 18, 19 and 20, T. 74 N., R. 14 W., opposite white house on W. side of rd., 539 ft N. of section line fence, 31 ft E. of center of rd., 1 ft W. of fence, 31 ft E. of center of rd., 1 ft W. of fence, 2 ft SE. of power pole, in a concrete post; a standard tablet stamped "T T 29 MT 1955 810" 810.109
- 8.7 Reference mark, spike in power pole at white farm house, 40 ft W. of center of rd., 15 ft N. of center of driveway, 80 ft SW. of tablet 807.74
- 9.3 UE., spike in power pole, 40 ft E. of rd., and 40 ft N. of fence cor. 815.96
- 9.8 UE, spike in telephone pole at fence cor. 40 ft W. of T-rd. E. 790.38
- 10.4 UE, spike in power pole at center of right angle rd. turn, 40 ft SW. of center of rd. 814.34

COALFIELD QUAD. - 51

- 10.9 Kirkville, 2.0 mi N. of, 415 ft N. of crossroads at cor. secs. 29, 30, 31 and 32, T. 74 N., R. 14 W., 31 ft E. of center of rd., 1 ft W. of fence, 2 ft N. of telephone pole, in a concrete post; a standard tablet stamped "T T 28 MT 1955 811" 810.709
- 11.0 Reference mark, spike in telephone pole, 50 ft NW. of crossroads, 370 ft S. of tablet 808.41
- 11.4 UE, chiseled square, near W. edge of concrete base for steel fence cor. post, 40 ft E. of rd. 821.78
- 12.0 UE, spike in guy pole, 25 ft E. of center of rd., and 10 ft W. of fence cor. 834.42
- 12.4 UE, spike in guy pole, 20 ft E. of center of rd. at fence cor. 842.70
- 12.9 Kirkville, at NW. village limits of, near cor. secs. 5, 6, 7, and 8, T. 73 N., R. 14 W., 410 ft N. of a Y-rd. N., 20 ft E. of a N.-S. rd., 1 ft W. of fence, 3 ft N. of telephone pole, in a concrete post; a standard tablet stamped "T T 27 MT 1955 850" 849.711

8
OTTUMWA NORTH QUADRANGLE
50 - Iowa

LINE 3.(Cont'd.)

Feet

COALFIELD NORTH QUAD. - 50

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| 13.0 | Reference mark, spike in power pole, 40 ft S. of T-rd. N., 420 ft S. of tablet | 842.16 |
| 13.8 | UE, spike in power pole, at T-rd. E., 50 ft W. of rd., 8 ft S. of driveway | 831.72 |
| | <u>OTTUMWA NORTH QUAD. - 50</u> | |
| 14.2 | UE, 1-in. pipe at fence post, 30 ft W. of T-trail E. | 784.76 |
| 14.7 | UE, chiseled square on top center of W. wingwall on N. side of concrete bridge, painted 717.2 | 717.22 |
| 15.1 | UE, T. 73 N., R. 14 W., about 0.25 mi W. of quarter cor. secs. 16 and 17, 120 ft N. and 140 ft E. of T-rd. S., in root on S. side of 30-in. elm tree, copper nail and washer | 767.62 |

LINE 4.

GENERALLY EAST ALONG WEST PORTION SOUTH BORDER (By R. E. Carey; 1955; Book CV 692)
OTTUMWA SOUTH QUAD. - 29

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| 18.1 | Ottumwa, 2.0 mi S. and 4.25 mi W. of, about 0.2 mi E., quarter cor. between secs. 5 and 32, Tps. 71 and 72 N., R. 14 W., 63 ft S. and 317 ft W. of a T-rd. N., 63 ft S., and 120 ft E. of a private drive S., 63 ft S. and 74 ft E. of center of 4'x4' concrete culvert under rd., in concrete post; a standard tablet stamped "112 RC 1955. 780 RESET 1957" | 779.957 |
| 18.1 | Center of rd. at T-rd. N., 54 ft N., and 300 ft E. of 112 RC | 779.3 |
| 18.8 | UE., T. 72 N., R. 14 W., about 0.2 mi E. of the center of sec. 32, center of crossroads | 847.2 |
| 18.8 | T.P., about 85 ft N., and 12 ft W. of crossroads, in top of a 6-in. stump; copper nail and washer | 846.56 |

OTTUMWA NORTH QUAD. - 50

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| 19.5 | UE, T. 72 N., R. 14 W., in the NW $\frac{1}{4}$ of the SE $\frac{1}{4}$ of sec. 29, about 200 ft NE. of SW. end rd. angle, 32 ft N., and 75 ft W. of crown of hill at field drive S., in root on SE. side of an 18-in. oak tree; copper nail and washer. (Tree found cut. Nail and washer has been removed 8/3/56 ER) | 793.78 |
| 19.5 | Grown hill at field drive S., 32 ft S., and 75 ft E. of UE | 796.1 |
| 19.7 | UE., T. 72 N., R. 14 W., in SE $\frac{1}{4}$ of the NE $\frac{1}{4}$ of sec. 29, near foot of steep grade, center of stock underpass at small drain | 684.0 |
| 19.8 | Center of steel bridge, near quarter cor. between secs. 28 and 29, T. 72 N., R. 14 W. | 673.4 |
| 20.2 | Ottumwa, 4.0 mi W. of, on Hwy 34, about 0.25 mi S. cor. secs. 20, 21, 28 and 29, T. 72 N., R. 14 W., 60 ft S., and 285 ft W. center of Hwy. 34 at crossroads, 2.0 ft N., and 5.0 ft W. of cor. post of T-fence S., 3.0 ft E. of telephone pole, in concrete post; standard tablet stamped "113 RC 1955 727" | 726.310 |
| 21.0 | UE., T. 72 N., R. 14 W., in the NE $\frac{1}{4}$ of sec. 28, center of Hwy 34, at RR. crossing copper nail and washer | 677.18 |
| 21.6 | Center of Hwy. 34 at rd. SW., about 0.3 mi W. of the center of sec. 27, T. 72 N., R. 14 W. | 682.1 |

9
OTTUMWA NORTH QUADRANGLE
50 - Iowa

LINE 4. (Cont'd.)

Feet

OTTUMWA NORTH QUAD. - 50

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| 22.3 | Reference mark, about 100 ft W. of tablet, 35 ft S., center of Hwy. 34, on NE. cor. of top step at entrance to yard; painted square | 709.11 |
| 22.3 | Ottumwa, at W. edge of, on U.S. Hwy 34, probably near quarter cor. between secs. 26 and 27, T. 72 N., R. 14 W., 28 ft S. and 329 ft W. of the center of Hwy 34, at Wildwood Drive, at the NW. cor. of the Wooden Shoe Motel, and at the NE. cor. of a hedge fence, in concrete post; a standard tablet stamped "114 RC 1955 707" | 706.911 |
| 22.8 | UE, T. 72 N., R. 14 W., probably near center of sec. 26, center of Hwy. 34, at Quincy Ave. N., painted square on man hole cover | 658.2 |
| 23.7 | Ottumwa, at W. cor. of junction of Hwy 63(short cut), and 34, 1.5 ft S. of Church St. and Richmond Ave. St. marker on N. edge concrete walk; chiseled square | 645.24 |
| 24.2 | City BM # 34, cross on top of E. end of concrete wall between Vine St. and John Deere parking lot entrance at Vine and Madison(Desco. & elev. by USGS) | 642.302 |
| 24.7 | At Ottumwa, Wapello County, at the Wabash RR Bridge over Des Moines River, in the top of the W. end of the middle pier, and between the track and the bridge truss, a standard disk stamped "644.776 A 7 1930" (Recovered in good condition 8/4/55) | 644.776 |

LINE 5.

SPUR LEVELED ONCE (By R. E. Carey, 1955; Book CV 692)

OTTUMWA NORTH QUAD. - 50

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| 0.0 | UE, 658.4(Previously described in Line 4) | 658.2 |
| 0.2 | M.H. # 46, cross on NE. cor. of cement gas pit at NW. cor. of Quincy and Mowery
NOTE: Elevation by USGS) | 657.593 |

LINE 6.

GENERALLY EAST THROUGH CENTER WEST ONE HALF OF QUADRANGLE(By R. E. Carey 1955; Book CV 692)

OTTUMWA NORTH QUAD. - 50

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|-----|--|---------|
| 0.0 | About 5.0 mi NW. along the Chicago, Rock Island and Pacific RR from Ottumwa, Wapello County, at power-transmission line pole 166, 46 ft NE. of the center of the track, near a gate to a private rd., and 3 ft SE. of a fence cor., a standard USC&GS disk stamped "658.453 Y 5 1930", and set in the top of a concrete post(Recovered in good condition 8/4/55) | 658.453 |
| 0.4 | UE, T. 72 N., R. 14 W., near the center of sec. 5, center of private rd. crossing, on bolt head inside painted square | 658.6 |
| 1.0 | UE, Tps. 72 and 73 N., R. 14 W., probably near W. 1/16 cor. between secs. 5 and 32, center of Bridge No. 825; copper nail and washer | 658.68 |

COALFIELD QUAD. - 51

- | | | |
|-----|--|--------|
| 1.9 | Center of State Hwy 15, at T-rd. E., 38 ft N., and 522 ft W. of 115 RC | 670.1 |
| 2.0 | Reference mark, about 130 ft W. of tablet, 40 ft S. center of rd., in root on S. side of a 18-in. oak tree; copper nail and washer, painted reference mark | 690.63 |

LINE 6.(Cont'd.)

Feet

COALFIELD QUAD. - 51

- 2.1 Chillicothe, 1.0 mi E. of, 3.5 mi S. of Kirkville, near cor. secs. 29, 30, 31 and 32, T. 73 N., R. 14 W., 38 ft S., and 522 ft E. of the center of State Hwy. 15, at T-rd. E., 107 ft NE. of the NE. cor. of a school house, 2 ft N. and 33 ft W. of the NE. cor. of school yard, in concrete post; a standard tablet stamped "115 RC 1955 692" 692.242

OTTUMWA QUADRANGLE - 50

- 2.6 UE, T. 73 N., R. 14 W., about 0.15 mi N. quarter cor. between secs. 29 and 32, at W. end of curve, 45 ft W., and 4.5 ft lower than center of rd., in root on SE. side of a 18-in. oak tree; copper nail and washer, painted 764.2 764.21
- 3.2 UE, T. 73 N., R. 14 W., near S. 1/16 cor. between secs. 28 and 29, W. point of grassy triangle formed by rd. forks at T-rd. W., 761.2
- 3.6 Center of rd. at drain, about 0.1 mi N., quarter cor. between secs. 28 and 29, T. 73 N., R. 14 W., 767.9
- 4.0 Center of E.-W., rd. in line with rd. S., 31 ft S. and 225 ft E. of Sta. No. 2 771.5
- 4.0 Reference mark, 60 ft E. of tablet, 30 ft N., center of rd. on W. edge of concrete drive; chiseled square 783.35
- 4.0 Kirkville, 2.5 mi S., and 1.0 mi E. of, 31 ft N., and 225 ft W. of T-rd. S., which is near cor. secs. 20, 21, 28 and 29, T. 73 N., R. 14 W., 31 ft N., and 71 ft W. of a private drive N., 2 ft S., and 2 ft E. of SE. cor. of board fence at barn yard, in concrete post; standard USC&GS and State Tablet stamped "STA No. 2 50 RESET 1955 782", painted BM 782.2(Elev by USGS) 782.189
- 4.2 UE, T. 73 N., R. 14 W., near E. 1/16 cor. between secs. 20 and 29, center of rd. at T-rd. N. 748.6
- 4.9 UE, T. 73 N., R. 14 W., in the NE 1/4 of sec. 20, near the center of the W. concrete headwall of bridge; chiseled square, flush with rd. 700.76
- 5.3 UE, T. 73 N., R. 14 W., near E. 1/16 cor. between secs. 17 and 20, center of rd. at T-rd. W. 760.7
- 5.6 Center of bridge, 750 ft S. of T-rd. S., which is about 0.25 mi W. quarter cor. between secs. 16 and 17, T. 73 N., R. 14 W. copper nail and washer 751.15
- 5.8 Center of rd., at T-rd. S., about 0.25 mi W. quarter cor. between secs. 16 and 17 T. 73 N., R. 14 W. 763.7
- 5.8 UE, 767.6 (Previously described in Line 3.) 767.62
- 6.1 Reference mark, about 170 ft SW. of tablet, 28 ft S., center of rd., in root on E. side of a 12-in. elm tree; copper nail and washer 823.50
- 6.1 Kirkville, 1.0 mi S., and 0.75 mi E. of, near quarter cor. secs. 16 and 17, T. 73 N., R. 14 W., 0.25 mi E. of a T-rd. S., 30 ft N., and 123 ft E. of private drive S., 30 ft N., 2 ft W., and 0.1 ft higher than center of rd., at N.-S. fence line, in concrete post; standard tablet stamped "116 RC 1955 831" 830.788
- 6.2 Ottumwa Flt 6 - Photo No. 1-80, PP B = center of T-drive 820.6

11
OTTUMWA NORTH QUADRANGLE
50 - Iowa

LINE 6. (Cont'd.)

Feet

OTTUMWA QUAD. - 50

6.6	UE, T. 73 N., R. 14 W., near the center of sec. 16, center of rd. at T-fence N.	799.6
6.9	UE, T. 73 N., R. 14 W., about 0.15 mi W. quarter cor. between secs. 15 and 16, center of rd. at private drive N.	802.3
7.3	UE, T. 73 N., R. 14 W., near S. 1/16 cor. between secs. 15 and 16, in school yard, 72 ft S., and 17 ft E. of rd. cor. at T-rd. S., in root on NE. side of a 36-in. Elm tree; copper nail and washer	835.24
7.3	Rd. cor. at rd. S., 72 ft N., and 17 ft W. of UE	837.6
7.6	Center of rd. at T-rd. W., in the SW $\frac{1}{4}$ of sec. 15, T. 73 N., R. 14 W.	843.8
7.9	UE, T. 73 N., R. 14 W., near quarter cor. between secs. 15 and 22, center of rd. at private drive SW.	829.5
8.4	Center of rd. at T-rd. S., and T-fence N., 50 ft N., and 24 ft W. of 117 RC	842.8
8.4	Kirkville, 1.5 mi S., and 3.0 mi E. of, near cor. secs. 14, 15, 22 and 23, T. 73 N., R. 14 W., at N. edge of Ottumwa Navy Air Base, 50 ft S. and 24 ft E. of the center of E.-W. rd. at T-rd. S. (into Air Base), and T-fence N., 15 ft E. of E. gate post, 14 ft W. of a pipe line crossing, in concrete post; standard tablet stamped "117 RC 1955 843"	842.864
8.9	UE, T. 73 N., R. 14 W., near quarter cor. between secs. 14 and 23, center of rd. at private drive N.	836.1
9.4	T. 73 N., R. 14 W., near cor. secs. 13, 14, 23 and 24, in school yard, 40 ft S., 70 ft E. and 5.3 ft higher than N.-S., rd. at T-fence E., and in line with rd. W., in root on NW. side of a 30-in. elm tree; copper nail and washer	817.12
9.9	UE, T. 73 N., R. 14 W., near quarter cor. between secs. 13 and 14, center of rd. at T-fence W.	813.6
10.4	Center of crossroads, 18 ft S., and 388 ft W. of 118 RC	804.9
10.5	Center of rd. at drain, 18 ft S. and 102 ft W. of 118 RC	798.8
10.5	Kirkville, 0.5 mi S., and 4.0 mi E. of, 0.5 mi N., and 4.0 mi W. of highland center, 18 ft N., and 388 ft E. of crossroads, which are near cor. secs. 11, 12, 13 and 14, T. 73 N., R. 14 W., 18 ft N., and 102 ft E. of rd. at drain, 4.0 ft E., of a telephone pole, 6 inches S. of fence line, in concrete post; standard tablet stamped "118 RC 1955 800"	800.079
11.7	UE., T. 73 N., Rs. 13 and 14 W., near cor. secs. 7, 12, 13 and 18, center of U.S. Hwy 63 at T-rd. W.; chiseled square	754.21
12.2	UE, T. 73 N., Rs. 13 and 14 W., near quarter cor. between secs. 13 and 18, center of U.S. Hwy 63, at T-rd. E.; nail and washer	744.50
13.0	Reference mark, about 365 ft NW. of tablet, 15 ft N., center of rd. at NE. cor. of bridge in top of piling about 0.3 ft lower than floor of bridge, copper nail and washer	745.90
13.0	Highland Center, 0.25 mi S., and 2.0 mi W. of, 363 ft SE. along rd., thence 33 ft. S. of rd. angle and small bridge which is near quarter cor. between secs. 17 and 18, T. 73 N., R. 13 W., 33 ft NW., along rd., thence 33 ft S., of rd. at T-lane S., 1 ft N. of fence line, in concrete post; standard tablet stamped "119 RC 1955 754"	753.703

12
OTTUMWA NORTH QUADRANGLE
50 - Iowa

LINE 6.(Cont'd.)

Feet

OTTUMWA QUAD. - 50

- 13.3 E. point of triangle formed by rd. forks, at T-rd. E., in the SW. quarter of sec. 17, T. 73 N., R. 13 W., 746.3
- 13.6 UE., T. 73 N., R. 13 W., in the S. half of sec. 17, center of bridge over Spring Creek, copper nail and washer 740.68
- 14.1 UE, T. 73 N., R. 13 W., on line between secs. 16 and 17, W. point of triangle formed by rd. forks at T-rd. W. 764.2
- 14.4 Center of bridge in SW $\frac{1}{4}$ sec. 16, T. 73 N., R. 13 W. 743.7
- 14.8 UE, T. 73 N., R. 13 W., in the SE $\frac{1}{4}$ of sec 16, center of RR. crossing; copper nail and washer 774.83
- 15.1 Centerline rd. at T-rd. W., near S. 1/16 cor. between secs. 15 and 16, T. 73 N., R. 13 W. 771.3
- 15.3 At Highland, Wapello Co., on the C.M.S.P. and P. RR., about 7 poles SW. of mile-post 6, about 75 ft N. of the NW. cor. of the station, 18 ft E. of the center of the track, 5 ft S. of a pole, and about level with the rail, a standard USC&GS disk stamped "X 86 1934" and set in the top of a concrete post (Recovered in good condition 8/9/55) 777.154

LINE 7.

SOUTH ALONG SOUTH PORTION OF EAST BORDER (By R.E. Carey 1955; Book CV 692

OTTUMWA NORTH QUAD.-50

- 0.0 USC&GS Standard Disk stamped "F 6 RESET 1943" (Previously described in Line 2.) 772.812
- 0.3 UE, T. 73 N., R. 12 W., near quarter cor. between secs. 19 and 20, center of rd. at T-rd. N., 736.0
- 1.3 UE, T. 73 N., R. 12 W., near quarter cor. between secs. 20 and 21, center of crossroads 791.5
- 1.8 UE, T. 73 N., R. 12 W., near cor. secs. 20, 21, 28, and 29, center of rd. at T-rd. E. 772.5
- 2.4 Center of rd., at T-rd. N., 33 ft N. and 251 ft E. of 120 RC 728.2
- 2.4 Farson, 1.75 mi S. of, 33 ft S., and 251 ft W. of T-rd. N., which is near quarter cor. between secs. 28 and 29, T. 73 N., R. 12 W., 33 ft S., and 151 ft E. of the E. end of Wolf Creek Bridge, 33 ft S. of rd. at "Y"-rd. NE., 1 ft N., and 2 ft E. of power line pole, 1 ft N. of fence line, in concrete post; standard tablet stamped "120 RC 1955 725" 725.204
- 2.3 Reference mark, 33 ft N., and 185 ft W. of tablet, center of bridge, over Wolf Creek; copper nail and washer 727.34
- 3.1 UE, T. 73 N., R. 12 W., near E. 1/16 cor. between secs. 29 and 32, center of rd. at private drive W. 767.2
- 3.6 UE, T. 73 N., R. 12 W., about 0.25 mi W. of quarter cor. between secs. 32 and 33; center of E.-W. rd. at T-rd. N. 743.6
- 4.0 UE, T. 73 N., R. 12 W., about 0.2 mi E. quarter cor. between secs. 32 and 33, center of bridge over Wolf Creek; copper nail and washer 716.67

13
OTTUMWA NORTH QUADRANGLE
50 - Iowa

LINE 7.(Cont'd.)

Feet

OTTUMWA NORTH QUAD. - 50

4.0	Center of rd. at T-rd. S., about 0.25 mi E., quarter cor. between secs. 32 and 33, T. 73 N., R. 12 W.	717.1
4.7	Center of rd. at T-rd. N., 37 ft N. and 351 ft E. of 121 RC	739.6
4.7	Farson, 3.25 mi S. of, 2.0 mi N., and 1.0 mi W. of Bladensburg, about 0.2 mi E. cor. secs. 4, 5, 32 and 33, Tps. 72 and 73 N., R. 12 W., 37 ft S., and 351 ft W. of a T-rd. N., 1 ft N., and 11 ft E. of cor. post of T-fence S., in concrete post; standard tablet stamped "121 RC 1955 735"	734.674
5.1	T. 72 N., R. 12 W., about 0.2 mi S., cor. secs. 4, 5, 32 and 33, center of bridge over Cedar Creek; copper nail and washer	712.99
5.7	UE, T. 72 N., R. 12 W., about 0.2 mi S., quarter cor. between secs. 4 and 5. center of rd. at private drive E.	751.2
6.0	UE, T. 72 N., R. 12 W., near cor. secs. 4, 5, 8 and 9, 24 ft W., and 4.8 ft lower center of rd. at junction of S. "Y" of T-rd. W., on W. end pipe culvert, painted square	755.3
6.4	UE, T. 72 N., R. 12 W., about 0.1 mi N. quarter cor. between secs. 8 and 9, near the center of the E. concrete headwall of culvert chiseled square, about 0.5 ft above floor of bridge, painted 724.7	724.67
6.9	Center of crossroads, 525 ft N., and 33 ft E. of 122 RC	755.6
7.0	Bladensburg, 1.0 mi W. of, 525 ft S., and 33 ft W. of crossroads which are near cor. secs. 8, 9, 16 and 17, T. 72 N., R. 12 W., 10 ft N. of a power pole, 1.0 ft E. of fence line, in concrete post; standard tablet stamped "122 RC 1955 764"	763.738
7.7	P P B rd. at fence W.(Ottumwa Quad.)	779.1
7.9	UE, T. 72 N., R. 12 W., near cor. secs. 16, 17, 20 and 21 center of crossroads	789.1
8.7	UE, T. 72 N., R. 12 W., about 0.2 mi S. quarter cor. between secs. 20 and 21, center of rd. at T-rd. N.	782.5
8.9	UE, T. 72 N., R. 12 W., in the SW $\frac{1}{4}$ of sec. 21, on E. end and near the center of concrete floor of bridge over Buckeye Creek, chiseled square	731.11
9.2	Bladensburg, 1.75 mi S., and 0.5 mi W. of, near S. central 1/16 cor. of sec. 21, T. 72 N., R. 12 W., 19 ft S., 24 ft E., and 5.5 ft higher than center of rd. at hedge row, N., 12 ft E. center of a wire gate, 2 ft E. of power line pole, 2 ft N. of fence line, in concrete post; standard tablet stamped "123 RC 1955 784"	783.638

PACKWOOD QUAD. - 49

9.7	UE, T. 22 N., R. 12 W., near S., 1/16 cor. between secs. 21 and 22, center of rd. at T-rd. W.	787.4
10.4	UE, T. 72 N., R. 12 W., near quarter cor. between secs. 27 and 28, 91 ft N., and 44 ft E. of crossroads, in root on NW. side of a 24-in. maple tree; copper nail and washer	790.14
10.4	Center of crossroads, 91 ft S., and 44 ft W. of UE	790.0
10.9	Reference mark, 56 ft N., and 15 ft W. of tablet, on the SE. cor. of concrete porch of school house; chiseled square	781.83

14
OTTUMWA NORTH QUADRANGLE
50 - Iowa

LINE 7. (Cont'd.)

Feet

PACKWOOD QUAD. - 49

- 10.9 Blandensburg, 3.0 mi S. of, 0.5 mi N. and 3.5 mi E. of Agency, 377 ft N., and 40 ft W. of rd. at E.-W. fence line which is near cor. secs. 27, 28, 33, and 34, T. 72 N., R. 12 W., 51 ft S. and 19 ft E. of the SE. cor. of school house, 4 ft N. of telephone pole, in SE. cor. of school yard, in concrete post; standard tablet stamped "124 RC 1955 783" 782.903
- 10.9 Center of rd. at E.-W. fence line, 377 ft S. and 40 ft E. of 124 RC 784.4

OTTUMWA SOUTH QUAD - 29

- 12.4 T. 72 N., R. 12 W., near quarter cor. between secs. 32 and 33, center of Hwy. 34, at drive N. to barn yard; copper nail and washer 803.76
- 13.4 2.1 mi E. along the C.B. and Q. RR. from the station at Agency City, Wapello Co. at a rd. crossing, 78 ft N. of the center of the N. track, 24 ft W. of the center of the rd., 4 ft SW. of a fence cor., 1 ft S. of the fence, and level with the track, a standard disk stamped "C 124 1935" and set in the top of a concrete post (Recovered in good condition) 797.964

LINE 8.

OTTUMWA NORTH QUAD. - 50

SOUTH NEAR CENTER SOUTH BORDER (By R. E. Carey 1955; Book CV-692)

- 0.0 USC&GS Standard disk stamped "A 7 1930" (previously described in Line 4.) 644.776
- 1.2 UE, T. 72 N., Rs. 13 and 14 W., near quarter cor. between secs. 31 and 36, center of E. Mary Street and Madison Ave. (Hwy 63); copper nail and washer 644.31

OTTUMWA SOUTH QUAD. - 29

- 2.3 UE, T. 71 N., Rs. 13 and 14 W., near quarter cor. between secs. 1 and 6, center of Hwy 63 at T-rd. E. 655.7
- 3.2 About 2.8 mi S. along the Wabash RR from Ottumwa, Wapello Co., about 1/8 mi N. of milepost 3, about 100 ft SE. of bridge 2219, 17 ft S., of the S. fence line of an E.-W. rd. fenced 60 ft wide, and 46 ft NE. of the center of the track, a standard disk stamped "638.096 B 7 1930" and set in the top of a concrete post. (Recovered in good condition 8-19-55) 638.096