

THIRD ORDER LEVELS
SEA LEVEL DATUM OF 1929

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

KEOKUK QUADRANGLE

1 - IOWA

306 - MISSOURI

170 - ILLINOIS

N4015-W9115/15

DIAGRAM NK 15-12

EURLINGEON, ILL. MO. IOWA

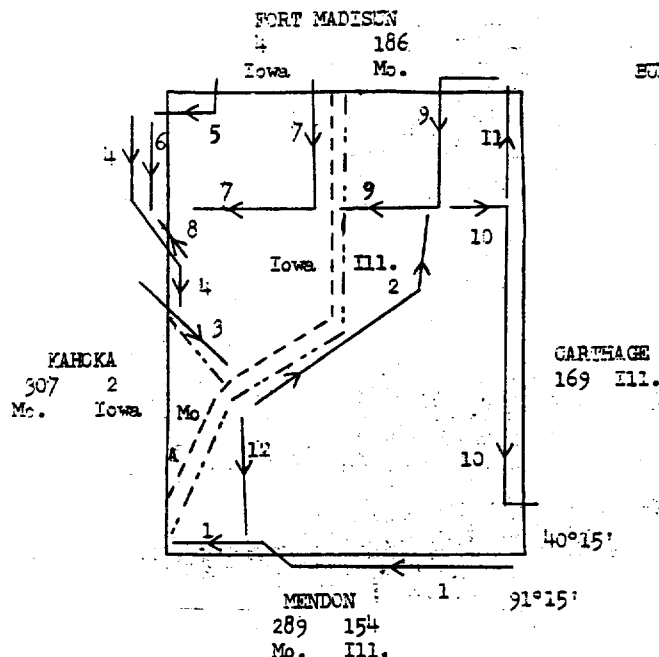
Lee County, Iowa

Hancock County, Illinois

Clark County, Missouri

Edition of 10/04/83

PR: MLC:vd.



USC&GS LEVELING
A. No. 400912

Feet

LINE 1

WEST ALONG SOUTH BORDER (S.R. Archer, 1932; B 4338)

MENDON QUAD. - 289

T. 3 N., Rs. 7 and 8 W., near quarter cor. between secs. 13 and 18, 49 ft S. of center of junction of rds. N. and E. at offset in range line, in concrete post; standard tablet stamped "Prim Trav Sta. 5 T 1924"	581.832
Reference mark, 10 ft N. and 90 ft E. from tablet, 100 ft E. of rd. junction on S. side of E.-W. rd., in fence line, in root on N. side of 15-in. elm tree; copper nail and washer	582.94
T. 3 N., R. 8 W., 0.15 mi E. of center of sec. 13, at W. approach of bridge over Bear Creek, on top of W. end of S. concrete wingwall; chiseled square	555.74
T. 3 N., R. 8 W., 0.25 mi W. of center of sec. 13, 4 ft E. of W. end of N. headwall of concrete culvert; chiseled square	573.84
T. 3 N., R. 8 W., near quarter cor. between secs. 13 and 14, 95 ft N. of junction of T-rd. S.; 10 ft E. of center of lane N., in root on SW. side of 12-in. cherry tree; copper nail and washer	619.90
T. 3 N., R. 8 W., near center of sec. 14, 0.5 mi N. of Hickory Ridge, 55 ft N. of crossroads, on W. side of rd. at fence line, in root on W. side of 8-in. walnut tree; copper nail and washer	659.28
T. 3 N., R. 8 W., near W. cor. sec. 14, at Buckeye School, on S. side of rd. on E. side near NE. cor. of schoolhouse at entrance, on SE. corner of concrete floor; chiseled square	651.16
T. 3 N., R. 8 W., near center of sec. 15, in NW. corner of crossroads, at concrete culvert under rd. N., on S. end of W. headwall; chiseled square	655.91
T. 3 N., R. 8 W., near center of sec. 16, 24 ft S. and 26 ft W. from crossroads, in NE. corner of yard of town hall, in concrete post; standard tablet stamped "P T S 6 T 1924"	659.452

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KEOKUK QUADRANGLE

1 Iowa, 306 Mo. 170 Ill.

LINE 1 (Cont'd)MENDON QUAD. - 283

Feet

Reference mark, 13 ft SW. of tablet, at entrance to town hall, on SE. corner of concrete porch; chiseled square 661.37

T. 3 N., R. 8 W., near center of sec. 17, 2.0 mi S. of Sutter, 170 ft W. of junction of T-rd. N., on S. side of rd., in root on NE. side of 24-in. elm tree; copper nail and washer 719.32

T. 3 N., R. 8 W., 0.2 mi E. of W. $\frac{1}{4}$ cor. sec. 17, 80 ft S. of crossroads, on top of E. headwall of concrete culvert; chiseled square 741.48

KEOKUK QUAD. - 306

Mallard, 2.0 mi E. of, 0.25 mi N. of center of sec. 13, T. 3 N., R. 9 W., 23 ft N. and 13 ft E. from junction of T-rd. N., in line with barn standing on S. side of rd., in concrete post; standard tablet stamped "P T S 7 T 1924" 668.900

Mallard, 0.8 mi N. and 2.7 mi W. from, near W. $\frac{1}{4}$ cor. sec. 8, T. 3 N., R. 9 W., about 30 ft E. of farm rd. which leads back from frame house at levee, on W. side of field, 0.37 mi E. of levee, 230 ft S. and 40 ft E. from SE. cor. of timber and fence corner, 260 ft S. of large deep pond, 300 ft NE. of fork in rd. on sec.-line; Miss. River Comm. B.M. 107/1 (destroyed 8/63 CRN) cap on pipe 484.850
bolt in tile 480.840

LINE 2

NORTHEAST THRU CENTER OF QUAD. (S.R. Archer, 1932; Book B 4338)

KEOKUK QUAD. - 170

Warsaw, in SW. part of, 0.25 mi W. of N. $\frac{1}{4}$ cor. sec. 16, T. 4 N., R. 9 W., 50 ft N. of junction of T-rd. E.; 426 ft below shoe factory, 410 ft from left bank, in SE. corner of lot, 16 ft W. of N.-S. rd., Miss. River Comm. B.M. "109/2" cap on iron pipe 499.628
bolt in tile 495.680

Warsaw, at SE. cor. of intersection of Main and 4th St., at NW. cor. of Farmers State Bank bldg., in W. face, 4 ft above sidewalk; standard tablet stamped "1932 577" 576.621

Warsaw, 3.0 mi E. of, 0.3 mi N. of center of sec. 12, T. 4 N., R. 9 W., 200 ft E. of crossroads, at S. line of hwy., 1 ft W. of concrete right-of-way post, 10.3 ft W. of sign; "Route 96" in concrete post; standard tablet stamped "2-A 1932" 642.204

LINE 3

SOUTHEAST FRGM NEAR CENTER OF WEST BORDER (B.A. Barnes, 1936; B7446)

KAHOKA QUAD. - 307 - 2

Wayland, about 3.0 mi E. of, 35 ft NE. of curve in hwy. from W.-SE., in concrete post; standard tablet stamped "1521 ERA 1935" 500.958

KEOKUK QUAD. - 306 - 1

T. 64 N., R. 6 W., in NW. $\frac{1}{4}$ sec. 1, 45 ft N. and 81 ft W. from N.-S. crossroad, in root on N. side of 14-in. elm tree; copper nail and washer 496.07

T. 64 N., R. 5 W., in SW $\frac{1}{4}$ sec. 6, 165 ft SE. of junction of private lane S., 21 ft W. of drainage ditch, S. of hwy., on center of concrete headwall of culvert; chiseled square 494.02

Alexandria, at N. limits of, 350 ft W. of junction of rd. E., at center of N. headwall of concrete culvert; chiseled square 490.40

Alexandria, 42 ft N. and 45 ft W. from intersection of Walnut and Market Streets, at SE. corner of schoolyard, in concrete post; standard tablet stamped "15 22 E R A 1935 489" (not found 8/63 CRN) 488.650

LINE 3 (Cont'd)

KEOKUK QUAD. - 1

Feet

U.S.C.E. B.M. Designated "489 R 109" (no description available) Copper bolt 496.750
Top of cap 500.760

LINE 4

SOUTH NEAR NORTH PORTION WEST BORDER (R.E. Carey, 1948; CV 194)

KAHOKA QUAD. - 2

T. 66 N., R. 6 W., near center of sec. 24, at curve in rd. that curves sharply from the S. to NW., 150 ft W. of a dim rd. N., in stump on SE. side of 6-in. elm tree; a USGS copper nail and washer 612.73

Vincennes, 3.75 mi E. of; about 0.8 mi E. of Oak Grove School; near quarter cor. secs. 24, and 25
T. 66 N., R. 6 W., 30 ft S. and 32 ft W. of center of T-rd. E.; 14 ft S. of the S. gatepost at gate into field; 1 ft E. of fence; in concrete post; standard tablet stamped "TT 22 C 1948" 556.696

Reference mark, about 600 ft S. of tablet; at NW. end of steel truss of bridge over Sugar Creek, on 1-in. bolt head; a chiseled cross 557.78

T. 66 N., R. 7 W., in the SW. corner of the SE $\frac{1}{4}$ sec. 25; 70 ft S. and 60 ft E. of T-rd. NE.; in root on SE. side of 16-in. white oak tree; a copper nail and washer 660.12

T. 66 N., R. 7 W., in the SW. corner of the NW $\frac{1}{4}$ sec. 36, at bridge over Sugar Creek, 40 ft SW. of the NE. end of bridge; on the NW. end of cap of the second bend from NE. end of bridge; a copper nail and washer 566.245

Vincennes, 2.0 mi S. and 3.25 mi E. of, across rd. S. of Melrose Church, possibly near cor. secs. 1, 2, 35 and 36, Tps. 65 and 66 N., R. 6 W., 34 ft S. and 9 ft W. of rd. fork N.; 29 ft normal to and on W. side of private rd. S. at gate; in concrete post; standard tablet stamped "TT 23 C 1948" 620.603

Reference mark, 200 ft NW. of tablet; on SW. corner of lower concrete step of Melrose Methodist Church; a chiseled square 621.35

T. 66 N., R. 7 W., near quarter cor. between secs. 1 and 2, at curve in rd. that curves sharply from the S. to the NE., at SE. corner of farmyard, 15 ft S. and 30 ft W. of P.I. of curve, in root on E. side of 20-in. hickory tree; a copper nail and washer 638.71

T. 65 N., R. 6 W., near quarter cor. between secs. 11 and 12, at curve that curves sharply from the N. to the E. near the center of E. headwall of a concrete culvert at P.C. of curve; a chiseled square 591.68

Melrose, Methodist Church, 2.0 mi S. of; 8.5 ft N. of a fence line E. which is near line between sec. 12 and 13, T. 65 N., R. 6 W., 0.4 mi N. of Eagle School, 35 ft E. of center of rd., 14 ft S. of drive-in to field; in concrete post; standard tablet stamped "TT 24 C 1948" 598.069

Reference mark, 350 ft SW. of tablet; on NE. corner of concrete door step at two-story white farmhouse; a chiseled square 594.97

T. 65 N., R. 6 W., near center of NW $\frac{1}{4}$ sec. 13, on the SE. cor. of concrete flag pole base, at Eagle Schoolhouse; a chiseled square 587.57

KEOKUK QUAD. - 1

T. 66 N., R. 7 W., in SW. cor. of NE $\frac{1}{4}$ sec. 36, 70 ft NE. and 30 ft NW. of T-rd. SW.; in root on S. side of 10-in. black oak tree; copper nail and washer 658.57

T. 65 N., R. 6 W., about 0.1 mi E. of quarter cor. between secs. 13 and 24; on top of NE. pier at NE. end of steel truss of bridge over Sugar Creek; a chiseled cross on rivet head 511.96

T. 65 N., R. 5 W., about 0.2 mi E. of cor. secs. 13, 18, 19 and 24, in "Y" of rds., 20 ft S. of center of rd. E., 40 ft N. and normal to main rd. SE.; RR. spike in W. side of power pole 565.60

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 KEOKUK QUADRANGLE
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LINE 4 (Cont'd)

KEOKUK QUAD. - 1

Feet

T. 65 N., R. 5 W., near W. central sixteenth cor. sec. 19, at curve that curves sharply from the E. to S.; 6 ft N. and 20 ft W. of P.I. of curve, in root on E. side of 30-in. white oak tree; copper nail and washer 609.94

Vincennes, 6.0 mi S. and 4.5 mi E. of; about 0.25 mi E. of cor. secs. 19, 24, 25 and 30, T. 65 N., Rs. 5 and 6 W., on N. bluff of Des Moines River, at a right angle turn in rd. from N. to W., 14 ft S. of center of rd. W.; 3 ft E. of center of rd. N.; 3 ft N. and 10 ft W. of cor. fence post, in a concrete post; standard tablet stamped "TT 25 C 1948" 600.640

Reference mark, about 175 ft NW. of tablet; in root on E. side of 36-in. maple tree; copper nail and washer 601.27

LINE 5

WEST IN NORTHWEST PORTION OF QUAD. (C.R. Nickerson, 1963; CV 1580)

KAHOKA QUAD. - 2

1 22 0.0 "TT 22 C 1948" (described in Line 4) 556.696

KEOKUK QUAD. - 1

0.8 UE, Montrose, 2.8 mi S., 3.7 mi W. of; near NW. cor. sec. 30, T. 66 N., R. 5 W., 65 ft N. and 60 ft W. of rd. fork; in S. end of sidewalk leading to Oak Grove Lutheran Church; chiseled square 669.05

FORT MADISON QUAD. - 4

23 1.6 UE Montrose, 2.2 mi S. and 3.4 mi W. of; near center sec. 19, T. 66 N. R. 5 W., at crest of hill opposite field entrance E.; 33 ft W. of center of rd.; in SE. side of power pole; 12-in. above ground; rail spike 680.18

24 2.3 UE, Montrose, 1.5 mi S. and 3.4 mi W. of; near center sec. 18, T. 66 N., R. 5 W.; at right angle bend in rd., 12 ft SW. of center of rd.; on metal culvert; painted square 670.1

25 3.1 Montrose, 0.8 mi S. and 3.7 mi W. of post office; 1.5 mi W. of junction of U.S. Hwy. 218 and Co. rd. "J", near SW. cor. sec. 7, T. 66 N., R. 5 W.; 34 ft N. and 30 ft W. of T-rd. S.; 2.5 ft W. of telephone pole; in concrete post; projecting 6-in. above ground; standard tablet stamped "1 CRN 1963" 674.633

3.1 Reference mark, 80 ft E. of tablet; 13 ft N. of center of Co. rd. "J" in top of headwall of concrete culvert; chiseled square 674.96

LINE 6

SOUTHEAST ALONG NORTH PORTION OF WEST BORDER (C.R. Nickerson, 1963; CV 1580)

KAHOKA QUAD. - 2

1 69 0.0 "TT 22 C 1948" (described in Line 4) 556.696

0.1 Reference mark (described in Line 4) 557.78

0.4 UE, Montrose, 3.1 mi S. and 4.7 mi W. of; near center sec. 25, T. 66 N., R. 6 W., 32 ft S. and 22 ft W. of T-rd. NE.; in NE. side of power pole rail spike 661.08

70 1.5 UE, Montrose, 4.1 mi S. and 4.3 mi W. of; near center of sec. 36, T. 66 N., R. 6 W., 30 ft NE. and 36 ft NW. of T-rd. SW.; in NW. side of power pole; rail spike 659.74

71 2.2 Montrose, 4.7 mi S. and 4.4 mi W. of, near S. quarter cor. sec. 36, T. 66 N., R. 6 W., nearest NE. end of bridge; copper nail and washer 562.89

72 3.1 UE, Montrose, 5.0 mi S. and 4.5 mi W. of; near center of N $\frac{1}{2}$ sec. 1, T. 65 N., R. 6 W., 30 ft NE. and 21 ft NW. of T-rd. S.; on SE. end of round concrete culvert; under field entrance; chiseled square 610.64

LINE 6 (Cont'd)

KAHOKA QUAD. - 2

Feet

1 73 3.4 "TT 23 C 1948" (described in Line 4)

620.603

3.4 Reference mark, (described in Line 4)

621.35

77 5.7 "TT 24 C 1948" (described in Line 4)

598.069

LINE 7

SOUTH AND WEST IN NORTHWEST PORTION OF QUAD. (C.R. Nickerson, 1963; GV 1580)

FORT MADISON QUAD. - 4

2 11 6.1 Reference mark No. 1, (INSTITUTE) is W. of the station, 2 ft E. and N. of fence corner in cultivated field, 50 meters S. of old barn, and about 150 meters WNW. of red barn

667.117

6.3 M.R.G. A INSTITUTE: on the right bank of the Miss. River, 0.75 mi. below the central part of Montrose, on land owned by Park Bluff Association, on crest of hill about 140 meters straight back from a frame house on crest of bluff, about 300 meters below a large group of summer cottages on top of bluff, about 250 meters NE. of stone house and red barn, 50 meters N. of corner of wire fence, and about 80 meters E. of rd. leading to camp on bluff. Mark is 2-in. iron pipe and capped, protruding 1 ft above surface of ground, and 1 meter W. of wire fence in cultivated field

681.181

13 7.3 Keokuk, 5.0 mi. N. and 1.5 mi. E. of junction of U.S. Hwy. 61 and 218, near NW. cor. of sec. 24, T. 66 N., R. 5 W., 10 ft N. and 25 ft E. of center of rd. and drive; on metal culvert; painted square

656.0

KEOKUK QUAD. - 1

14 9.1 Keokuk, 4.0 mi. N. and 1.5 mi. E. of junction of U.S. Hwys. 61 and 218; 2.3 mi. S. and 1.0 mi. E. of Montrose post office, near NE. cor. sec. 26, T. 66 N., R. 5 W., 31 ft S. and 36 ft W. of crossroads; 25 ft N. and 0 ft W. of fence corner; in concrete post projecting 6-in. above ground; standard tablet stamped "4 CRN 1963"

675.512

15 9.9 UE, Keokuk, 3.2 mi. N. and 1.5 mi. E. of junction of U.S. Hwys. 61 and 218; near SE. cor. sec. 26, T. 66 N., R. 5 W., 31 ft W. of rd.; in power pole; 1 ft above ground; RR. spike

653.90

16 10.2 UE, Keokuk, 3.0 mi. N. and 1.5 mi. E. of junction of U.S. Hwys. 61 and 218; near NW. cor. sec. 36, T. 66 N., R. 5 W., 25 ft N. and 25 ft E. of T-rd. E.; on E. end of metal culvert; painted square

593.6

18 11.2 UE Keokuk, 2.1 mi. N. and 1.2 mi. E. of junction of U.S. Hwys. 61 and 218; near S. cor. sec. 35, T. 66 N., R. 5 W., 125 ft N. and 18 ft W. of T-rd. N.; in W. end of top of headwall of concrete culvert; chiseled square

579.40

19 11.8 Keokuk, 1.3 mi. N. and 1.3 mi. E. of junction of Hwys. 61 and 218; 5.5 mi. S. and 0.9 mi. E. of Montrose; near E. cor. sec. 2, T. 65 N., R. 5 W., 31 ft E. of center of rd.; 2.5 ft N. of power pole; 1 ft W. of fence; in concrete post; projecting 6-in. above ground; standard tablet stamped "5 CRN 1963"

659.620

20 12.2 UE, Keokuk, 1.0 mi. N. and 1.3 mi. E. of junction of 61 and 218, near NE. cor. sec. 11, T. 65 N., R. 5 W., 18 ft S. and 36 ft E. of T-rd. W.; in W. side of power pole; 2-in. above ground; rail spike

641.51

21 12.8 UE, Keokuk, 0.4 mi. N. and 1.6 mi. E. of junction of 61 and 218, near W. cor. sec. 12, T. 65 N., R. 5 W.; 20 ft S. and 20 ft E. of drive E. into Starhaven; in S. end of headwall of concrete culvert; chiseled square

659.03

23 13.8 UE, Keokuk, 0.6 mi. S. and 1.7 mi. E. of junction of U.S. Hwy. 61 and 218; near W. cor. secs. 13, T. 65 N., R. 5 W.; 115 ft S. and 18 ft W. of T-rd. E.; in culvert handrail W. of center of rd.; chiseled square

559.06

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LINE 7 (Cont'd)

KEOKUK QUAD. - 1

Feet

- 2 24 14.3 Keokuk, 1.0 mi S. and 1.7 mi E. of junction of hwy. 61 and 218, 2.0 mi N. and 0.8 mi W. of W. end of bridge across Mississippi River; near $S\frac{1}{4}$ cor. sec. 13, T. 65 N., R. 5 W., 32 ft S. and 18 ft E. of crossroads; 25 ft N. of power pole; in concrete post projecting 6-in. above ground; standard tablet stamped "6 CRN 1963" 650.398
- 25 14.4 Reference mark, 210 ft W. of tablet; 54 ft S. and 180 ft W. of crossroad; in 36-in. triple elm tree; on E. side of tree in root; copper nail and washer 650.28
- 26 14.9 UE, Keokuk, 1.4 mi S. and 1.8 mi E. of intersection of U.S. Hwys. 61 and 218, at intersection of Washington St. and Middle Rd.; 15 ft S. and 20 ft W. of cross-streets; on SW. corner of intersection; in sidewalk; chiseled square 667.03
- 27 15.6 UE, Keokuk, at intersection of Belknap Blvd. and Johnson St. Rd.; 16 ft S. and 20 ft W. of cross-streets; on street curb at SW. corner; chiseled square 658.84
- 29 16.9 UE, Keokuk, at junction of Johnson St. Rd. and Hwy. 61; 1.8 mi S. of junction of 61 and 218; at center of crossroads; copper nail and washer 641.00
- 30 17.2 Keokuk, 1.8 mi S. and 0.3 mi W. of junction of Hwy. 61 and 218; 1.2 mi N. and 2.7 mi W. of W. end of bridge across Miss. River; near center $SW\frac{1}{4}$ sec. 22, T. 65 N., R. 5 W., 33 ft S. of center of rd.; 162 ft E. of T-rd. N.; 7 ft E. of telephone pole; in a concrete post; projecting 6-in. above ground; standard tablet stamped "7 CRN 1963" 652.475
- 31 17.3 Reference mark, 60 ft N. and 252 ft W. of tablet; in end of sidewalk; chiseled square 651.32
- 33 18.5 UE, Keokuk, 2.0 mi S. and 1.5 mi W. of junction of Hwys. 61 and 218, near SW. cor. sec. 21, T. 65 N., R. 5 W., 16 ft N. and 60 ft E. of Trd. E.; in N. end of top of headwall of concrete culvert; chiseled square 525.89
- 35 19.6 UE, Keokuk, 1.5 mi S. and 2.5 mi W. of junction of U.S. Hwys. 61 and 218; near $W\frac{1}{4}$ cor. sec. 20, T. 65 N., R. 5 W.; 30 ft S. and 54 ft E. of T-rd. N.; on SW. end of metal culvert; painted square 593.6
- 36 19.9 UE, Keokuk, 1.5 mi S. and 2.8 mi W. of junction of Hwys. 61 and 218, near center sec. 19, T. 65 N., R. 5 W., 30 ft N. and 105 ft W. of crossroad NW.; in telephone pole 4-in. above ground; rail spike 607.11
- 38 20.8 "TT 25 C 1948" (described in Line 4) 600.640

LINE 8

NORTHWEST IN NORTHWEST PORTION OF QUAD. (C.R. Nickerson, 1963; CV 1580)

KEOKUK QUAD. - 1

- 2 40 0.0 "TT 25 C 1948" (described in Line 4) 600.640
- 42 2.3 UE Keokuk, 1.0 mi S. and 3.8 mi W. of junction of U.S. Hwys. 61 and 218; near $S\frac{1}{4}$ cor. sec. 13, T. 65 N., R. 6 W., 10 ft S. of center of rd.; 240 ft E. of field rd. N.; in SW. curb of new concrete bridge crossing Sugar Creek; chiseled square 516.78
- 43 2.9 UE Keokuk, 1.0 mi S. and 4.5 mi W. of junction of U.S. Hwy. 218 and 61; near NE. cor. sec. 23, T. 65 N., R. 6 W.; 15 ft S. and 27 ft W. of T-rd. E.; in E. side of power pole rail spike 576.46

KAHOKA QUAD. - 2

- 44 4.2 "TT 24 C 1948" (described in Line 4) 598.069

LINE 9

Feet

GENERALLY SOUTH AND WEST IN NORTHEAST PORTION OF QUAD. (G.R. Nickerson, 1963; UV 1580)

- NOTE: This line replaces line by L.V. Johnson, 1928 FORT MADISON QUAD. - 186
- 3 16 8.3 Hamilton, 7.5 mi N. and 3.5 mi E. of intersection of U.S. Hwy. 136 and State 96; Nauvoo, 2.6 mi S. and 5.9 mi E. of center of town; near SE. cor. sec. 14, T. 6 N., R. 8 W., 50 ft N. and 32 ft W. from crossroads; 150 ft SE. from SE. cor. of school; in concrete post; projecting 6-in. above ground; standard tablet stamped "8 CRN 1963" 681.269
- 17 8.4 Reference mark, 70 ft S. of tablet; 20 ft S. and 22 ft W. from crossroads; in S. end of round concrete culvert; chiseled square 676.69
- 18 9.4 UE, T. 6 N., R. 8 W., near SW. cor. sec. 14, in NE. angle of crossroads; in E. end of concrete culvert under rd. N.; on S. wingwall; chiseled square; (NOTE: P T S 51 1910 which was near this point has been destroyed) 664.00
- 19 10.5 UE, Hamilton, 7.5 mi N. and 1.5 mi E. of; near SE. cor. sec. 16, T. 6 N., R. 8 W., 60 ft S. and 78 ft W. from crossroads; in NW. cor. of sidewalk; by porch of school; chiseled square 679.32
- 20 11.5 UE, Hamilton, 7.5 mi N. and 0.5 mi E. of intersection of U.S. Hwy. 136 and State 96; near SW. cor. sec. 16, T. 6 N., R. 8 W.; 24 ft N. and 27 ft E. from T-rd. E.; on N. end of metal culvert; painted square 664.2
- 29 11.8 UE, Hamilton, 7.9 mi N. and 0.5 mi E. of intersection of Hwy. 136 and 96; near W $\frac{1}{2}$ cor. sec. 16, T. 6 N., R. 8 W., 15 ft from center of rd.; in SW. end of headwall of concrete culvert; chiseled square 652.18
- 30 12.0 "3 LJ 1928" Nauvoo, 1.8 mi S. and 3.0 mi E. from, near NW. cor. sec. 16, T. 6 N., R. 8 W.; 30 ft S. and 25 ft E. from junction of T-rd. E.; 3 ft S. of fence corner, in concrete post; standard tablet stamped "3 LJ 1928" (recovered in 1931) 669.774
- KEOKUK QUAD. - 1 - 170
- 21 12.6 UE, Hamilton, 6.5 mi N. and 0.5 mi E. of intersection of U.S. Hwy. 136 and State Hwy. 96; near NW. cor. sec. 28, T. 6 N., R. 8 W.; 53 ft S. and 46 ft E. from crossroads; in NW. corner of foundation of corn crib; chiseled square 667.67
- 22 13.6 Hamilton, 5.0 mi N. of N. limits of, 0.1 mi W. of SE. cor. sec. 29, T. 6 N., R. 8 W.; 50 ft N. and 20 ft W. from crossroads; 5 ft N. of fence corner, in concrete post; standard tablet stamped "2 LJ 1928" 653.314
- 31 14.0 UE, Hamilton, 5.1 mi N. and 0.3 mi E. of junction of Hwy. 136 and 96; near E $\frac{1}{2}$ cor. sec. 32, T. 6 N., R. 8 W.; in bridge crossing Larry Creek; 9 ft E. of center of rd.; in top of NE. concrete wingwall; chiseled square hole 574.30
- 33 14.7 UE, Hamilton, 4.5 mi N. and 0.5 mi E. of intersection of U.S. Hwy. 136 and Ill. Hwy. 96; near NW. cor. sec. 4, T. 5 N., R. 8 W.; 50 ft S. and 50 ft W. of crossroads; 29 ft from end of sidewalk leading to _____ Church.; in sidewalk; chiseled square 659.34
- 35 16.2 UE, Hamilton, 3.0 mi N. and 0.5 mi E. of intersection of Hwy. 136 and Ill. Hwy. 96; near NW. cor. sec. 16, T. 5 N., R. 8 W., 25 ft S. and 34 ft E. from crossroads; 3 ft from fence corner; in power pole; rail spike 653.04
- 36 17.2 Reference mark, 60 ft N. and 9 ft W. of tablet; in concrete fence corner guy; chiseled square 625.95
- 37 17.2 Hamilton, 2.0 mi N. and 0.5 mi E. of junction of 136 and 96; near W $\frac{1}{2}$ cor. sec. 16, T. 5 N. R. 8 W.; 28 ft S. and 36 ft E. of crossroads; 9 ft E. of fence corner; 1 ft N. of fence; in concrete post; projecting 6-in. above ground; standard tablet stamped "1 LJ 1928 RESET 1963" 626.882

KEOKUK QUADRANGLE
1 Iowa 306 Mo. 170 Ill.

LINE 9 (Cont'd)

KEOKUK QUAD. - 170

Feet

- 3 38 17.9 UE, Hamilton, 1.4 mi N. and 0.5 mi E. of intersection of Hwy. 136 and 96; near NW. cor. sec. 21, T. 5 N., R. 8 W.; 12 ft E. of center of rd.; in curb NE. cor. of bridge across Chaney Creek; chiseled square 568.75
- 39 18.3 UE, Hamilton, 1.0 mi N. and 0.5 mi E. of intersection of U.S. Hwy. 136 and Hwy. 96; near $\frac{1}{2}$ cor. sec. 21, T. 5 N., R. 8 W.; 23 ft S. and 39 ft E. of T-rd. E.; in NW. side of power pole; rail spike 640.38
- 40 19.0 Reference mark No. 1 HAMILTON: about 115 ft W. of NW. cor. of stone house, 1 ft W. of wire fence at SW. cor. of pasture, 3 ft E. of electric line pole, 23 ft E. of center of main gravel rd., about 13 ft N. of rd. leading to stone house, and $\frac{1}{3}$ mi from station in azimuth $185^{\circ}44'16''$ 674.234
- 41 19.2 HAMILTON A: about 1.5 mi E. of bridge in Hamilton, on grounds of Oakwood School, in W. side of schoolyard, 128 ft ENE. of SE. corner of schoolhouse 40 ft W. of center of N.-S. gravel rd., 125 ft N. of center of E.-W. gravel rd., and 100 ft N. of hydrant on W. side of rd., in NW. corner of T-intersection of rd. 673.415
- 42 20.0 UE, Hamilton, intersection of Broadway and Ill. hwy. 96; 42 ft S. and 20 ft E. of cross-street; in NW. cor. sidewalk; chiseled square 636.81
- 43 20.8 UE, Hamilton, intersection of Fifth and Main Streets; 26 ft S. and 12 ft W. of T-street S.; in SE. cor. of sidewalk; chiseled square 614.29
- 44 21.0 UE, Hamilton at intersection of Main St. and Hwy. 136; 26 ft S. of Y-rd. E.; on curb E. edge of hwy.; chiseled square, (P. T. S. 53 1910, which was near this point has been destroyed) 518.10
- 45 21.6 UE, Hamilton, at bridge crossing Miss. River; 15 ft S. of center of rd., 300 ft E. of E. end of bridge; in concrete hand rail curbing; at end of walk; chiseled square 305.06
- 47 22.3 UE, Keokuk, 35 ft SE. and 60 ft SW. of cross-streets, at W. end of Miss. Bridge; 48 ft N. of NW. cor. of Toll House; in curb; chiseled square 550.40
- 48 22.7 UE, Keokuk, at intersection of 5th and High Streets; 20 ft NW. and 15 ft NE. of cross-streets; in NW. cor. of sidewalk; chiseled square 590.74
- 50 23.0 "UE" (described in Line 7) 667.03

LINE 10

GENERALLY SOUTH ALONG SOUTH PORTION OF EAST BORDER (C.R. Nickerson, 1963; CV 1580)

NOTE: This line replaces line by S.R. Archer, 1931)

KEOKUK QUAD. - 170

- 4 4 0.0 A HAMILTON (described in Line 9) 673.415
- 1.1 UE, Hamilton, 1.5 mi E. of junction of U.S. Hwy. 136 and Hwy. 96 S., near $\frac{1}{4}$ cor. sec. 28, T. 5 N., R. 8 W.; 16 ft S. and 15 ft W. of crossroads; in W. end of top of headwall of concrete culvert; chiseled square 661.40
- 5 2.1 UE, Hamilton, 2.5 mi E. of junction of U.S. Hwy. 136 and Hwy. 96 S., near $\frac{1}{4}$ cor. sec. 27, T. 5 N., R. 8 W., 22 ft S. and 14 ft E. of crossroads; in top of headwall of concrete culvert; on SE. cor.; chiseled square 662.61
- 6 3.2 Elvaston, 1.2 mi W. of, 50 ft S. and 30 ft E. from quarter cor. between secs. 25 and 26, T. 5 N., R. 8 W.; in SE angle of crossroads; near entrance to field; standard iron post with bronze cap stamped "P. T. S. 52 1910" 664.235
- 7 3.9 Elvaston, 3.9 mi SW. of; 2.7 mi SE. of Hamilton; T. 5 N., R. 8 W., near SW. cor. sec. 34; 130 ft S. and 12 ft E. of rd. at RR; in the NE. conc. wingwall of bridge (built in 1983); counter-sunk; standard tablet stamped "638 RESET 1983" Reset by Hancock County Highway Department 09-29-83 637.625

LINE 10 (Cont'd)	KEOKUK QUAD. - 170	Feet
4 7 3.9 Elvaston, 0.7 mi SW. of station, 0.2 mi E. of center of sec. 25, T. 5 N., R. 8 W., 30 ft S. of a rd. intersection, 12 ft S. of warning post, 4 ft N. of fence; standard iron post with bronze cap stamped "670"		668.558
8 4.5 UE, Hamilton, 9.9 mi E. of junction of Hwy. 136 and Hwy. 96 S.; at Elvaston by school yard; 21 ft S. and 22 ft E. of crossroad; in SW. cor. of W. end of sidewalk in front of school; chiseled square		669.86
9 5.1 Elvaston, 0.5 mi S. of, 180 ft S. of quarter cor. between secs. 30 and 31, T. 5 N., R. 7 W., 180 ft S. of junction of T-rd. E.; 2.5 ft N. of S. end of concrete culvert, on top of W. headwall; chiseled square		636.75
10 6.0 UE, Elvaston, 1.5 mi S. of, near S $\frac{1}{4}$ cor. sec. 31, T. 5 N., R. 7 W.; 22 ft S. and 21 ft E. of T-rd. N.; in NW. side of power pole; rail spike		653.12
11 Elvaston, 4.5 mi S. of near SW. cor. sec. 13, T. 4 N., R. 7 W., 28 ft N. and 30 ft E. from crossroads, in SW. cor. of pasture, in concrete post; standard tablet stamped "P T S 10 T 1924" (elev. established by S.R. Archer, 1931) (not found CRN 1963)		579.550
6.5 Reference mark, 36 ft ____ of tablet; 24 ft S. and 11 ft E. of T-rd. S.; in top of E. headwall of concrete culvert; chiseled square		627.17
6.5 Elvaston, 1.5 mi S. of, near cor. Tps. 4 and 5 N., Rs. 7 and 8 W., 39 ft S. and 22 ft W. from junction of T-rd. S.; in concrete post; standard tablet stamped "P T S 9 T 1924"		627.011
27 7.0 UE Elvaston, 2.0 mi S. of; near E $\frac{1}{4}$ cor. sec. 1, T. 4 N., R. 8 W., in SW. angle of junction of T-rd. W., 20 ft S. and 18 ft W. of T-rd. W.; in NE. cor. of yard of farmhouse; in root on NE. side of 36-in. ash tree; copper nail and washer		656.76
28 7.7 UE, Hamilton, 2.8 mi S. and 4.5 mi E. of junction of U.S. Hwy. 136 and Ill. Hwy. 96 S., near NE. cor. sec. 12, T. 4 N., R. 8 W.; 12 ft from center of rd.; in S. end of W. concrete culvert headwall; chiseled square		652.37
29 8.0 UE Hamilton, 3.0 mi S. and 4.5 mi E. of junction of U.S. Hwy. 136 and Hwy. 96 S., near E. quarter cor. sec. 12, T. 4 N., R. 8 W.; 18 ft N and 24 ft W. of crossroads; in power pole; rail spike		662.63
30 9.0 UE, Hamilton, 4.0 mi S. and 4.5 mi E. of junction of U.S. Hwy. 136 and 96 S.; near E $\frac{1}{4}$ cor. sec. 13, T. 4 N., R. 8 W.; on top of NE. end of E. concrete wingwall of N. abutment; chiseled square		597.08
31 9.5 Hamilton, 4.5 mi S. and 4.5 mi E. of junction of Hwy. 136 and 96 S., Elvaston, 4.5 mi S. of; near SW. cor. sec. 18, T. 4 N., R. 7 W., 156 ft N. and 34 ft E. of crossroads; ____ ft W. of fence; in concrete post; projecting 6 in. above ground; standard tablet stamped "9 CRN 1963"		586.074
32 9.7 Elvaston, 4.7 mi S. of, at bridge over Little Bear Creek, on top of NW. of W. concrete wingwall of N. abutment; chiseled square		584.03
33 10.6 UE, Hamilton, 5.5 mi S. and 4.5 mi E. of junction of U.S. Hwy. 136 and State 96 S., near SE. cor. sec. 24, T. 4 N., R. 8 W.; 31 ft N. and 15 ft W. of T-rd. E.; on metal culvert; painted square		618.7
34 11.0 UE, Hamilton, 5.8 mi S. and 4.5 mi E. of junction of Hwy. 136 and 96 S.; near E $\frac{1}{4}$ cor. sec. 25, T. 4 N., R. 8 W., 450 ft N. and 12 ft E. of T-rd. N. at offset crossroads; in E. end of round concrete culvert; chiseled square		649.390
36 11.7 Hamilton, 6.6 mi S. and 4.5 mi E. of junction of Hwy. 136 and 96 S., near NE. cor. sec. 36, T. 4 N., R. 8 W.; on top near center of W. headwall of concrete culvert; chiseled square		601.37

KEOKUK QUADRANGLE

1 Iowa 306 Mo. 170 Ill.

LINE 10 (Cont'd)KEOKUK QUAD. - 170Feet

- 4 37 11.9 Hamilton, 6.8 mi S. and 4.5 mi E. of junction of Hwy. 136 and 96 S.; 4.2 mi S. and 9.4 mi E. of Warsaw, near E. cor. sec. 36, T. 4 N., R. 8 W.; 12 ft W. of center of rd., 270 ft N. of T-drive E.; 4 ft E. of power pole; 6 in. E. of fence; in concrete post projecting 6-in. above ground, standard tablet stamped "10 CRN 1963" 630.430
- 38 12.6 UE, Hamilton, 7.5 mi S. and 4.5 mi E. of junction of Hwy. 136 and 96 S., near SW. cor. sec. 31, T. 4 N., R. 7 W.; 24 ft N. and 18 ft E. of Y-rd. N.; on E. end of metal culvert; painted square 587.31
- 39 12.8 UE, Hamilton, 7.5 mi S. and 4.8 mi E. of junction of 136 and 96 S.; near SW. cor. sec. 31, T. 4 N., R. 7 W.; at bridge over Bear Creek, on bridge end of S. wingwall of W. concrete abutment; chiseled square 565.06

CARTHAGE QUAD. - 169

- 40 13.5 T. 3 N., R. 7 W., near center of sec. 6, 15 ft E. of junction of T-rd. W.; in concrete post; standard tablet stamped "P T S 11 T 1924" 612.781

LINE 11

NORTH ALONG NORTH PORTION OF EAST BORDER (C.R. Nickerson, 1963; CV 1580)

NOTE: This line replaces line by S.R. Archer, 1931)

KEOKUK QUAD. - 170

- 4 12 0.0 "670 1909" (described in Line 10) 668.558
- 0.6 UE, Elvaston, 0.4 mi N. of; near NW. cor. sec. 30, T. 5 N., R. 7 W.; 330 ft S. and 9 ft E. of T-rd. W.; on NE. wingwall of bridge over drainage ditch; chiseled square 652.68
- 13 1.7 UE, Elvaston, 1.5 mi N. of; near SW. cor. sec. 18, T. 5 N., R. 7 W.; 340 ft N. of T-rd. E.; at SE. abutment of bridge over Chaney Creek, on top of E. end of NE. wingwall, 2 ft from extreme; top of square bolt 659.83
- 14 2.3 UE, Elvaston, 2.1 mi N. of, 0.1 mi N. of W. cor. sec. 18, T. 5 N., R. 7 W., 510 ft N. of junction of T-rd. W.; on top of S. end of E. headwall of concrete culvert; chiseled square 683.78
- 15 2.7 Elvaston, 2.6 mi N. of, near NW. cor. sec. 18, T. 5 N., R. 7 W., 40 ft S. and 30 ft E. from junction of T-rd. E.; 10 ft S. of fence corner, in concrete post; standard tablet stamped "12 A 1931" 693.795
- 16 2.8 Reference mark, 680 ft N. of tablet; 9 ft W. of center of rd.; on top of headwall of concrete culvert; chiseled square 692.03
- 17 3.2 UE, Hamilton, 3.0 mi N. and 4.5 mi E. of junction of U.S. Hwy. 136 and State 96 S.; near E. cor. sec. 12, T. 5 N., R. 8 W.; 24 ft S. and 24 ft W. of T-rd. W.; in NE. side of power pole; rail spike 702.32
- 18 3.7 UE, Hamilton, 3.5 mi N. and 4.5 mi E. of junction of U.S. Hwy. 136 and State 96 S., near NE. cor. sec. 12, T. 5 N., R. 8 W.; 10 ft S. and 15 ft W. of T-rd. W.; at offset crossroads; in S. end of round concrete culvert; chiseled square 705.26
- 19 3.8 UE, Hamilton, 4.5 mi N. and 4.5 mi E. of junction of U.S. 136 and State 96 S., near NW. cor. sec. 6, T. 5 N., R. 7 W.; 24 ft S. and 13 ft E. of crossroads; on top of E. headwall of concrete culvert; chiseled square 704.97
- 20 5.8 Hamilton, 5.5 mi N. and 4.5 mi E. of junction of Hwy. 136 and 96 S., Nauvoo, 4.6 mi S. and 6.9 mi E. of; near NE. cor. sec. 36, T. 6 N., R. 8 W.; 50 ft S. and 31 ft W. of T-rd. W.; 146 ft S. and 31 ft W. of Trd. E.; at offset crossroads; in concrete post projecting 6-in. above ground; standard tablet stamped "11 CRN 1963" 689.656
(NOTE: "11 A 1931" established by S.R. Archer which was near this location has been destroyed)

<u>LINE 11 (Cont'd)</u>		<u>KEOKUK QUAD. - 170</u>	<u>Feet</u>
4 22 5.8	Reference mark, 380 ft N. of tablet; on E. headwall of concrete culvert; 11 ft E. of center of rd.; chiseled square		687.63
23 6.7	UE, Hamilton, 6.5 mi N. and 4.5 mi E. of junction of Hwy. 136 and 96 S., near NE. cor. sec. 25, T. 6 N., R. 8 W.; 315 ft S. and 6 ft W. of T-rd. W. at offset crossroads; on W. end of bridge in concrete floor; chiseled square		683.30
24 7.8	UE, Hamilton, 7.5 mi N. and 4.5 mi E. of junction of U.S. Hwy. 136 and Hwy. 96 S., near NE. cor. sec. 24, T. 6 N., R. 8 W.; 27 ft S. and 24 ft W. of T-rd. W.; at offset crossroads; in NE. side of power pole; rail spike		692.69

FORT MADISON QUAD. - 186

4 25 8.9	"8 CRN 1963" (described in Line 9)		681.269
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LINE 12

SOUTH IN THE SOUTHWEST PORTION OF QUAD. (C.R. Nickerson, 1963; CV 1580)

(NOTE: This line replaces line by S.R. Archer, 1932)

KAHOKA QUAD. - 170

4 50 0.0	Miss. River Comm. "EM 109/2" (described in Line 2)		495.680
0.0	Reference mark, 260 ft S. of tablet (iron pipe) 9 ft W. of center of rd.; on W. headwall of concrete culvert; 2.5 ft from N. end; chiseled square		500.29
51 0.4	UE, Warsaw, 1.2 mi S. of, near center of SE $\frac{1}{4}$ sec. 16, T. 4 N., R. 9 W.; in NE. angle of junction of rd. E.; at SE. corner of bridge; on concrete retaining wall; chiseled square		496.83
52 1.0	UE, Warsaw, 1.8 mi S. of; near the center of sec. 21, T. 4 N., R. 9 W.; center of rd. and drive SW., field rd. over levee; copper nail and washer		507.50
53 1.5	UE, Warsaw, 2.3 mi S. of, near the center of SE $\frac{1}{4}$ sec. 21, T. 4 N., R. 9 W.; 650 ft S. of T-rd. E. and 16 ft E. of center of rd. on S. end of E. headwall of concrete culvert; chiseled square		514.11
54 1.9	UE, Warsaw, 2.6 mi S. of; near the SE cor. sec. 21, T. 4 N., R. 9 W.; 22 ft S. and 27 ft W. of T-rd. W.; on E. end of metal culvert; under lot rd. paralleling main rd.; painted square		506.4
55 2.6	Reference mark, 80 ft NE. of tablet; 36 ft N. and 15 ft E. of T-rd. W.; on S. end of E. headwall of concrete culvert; chiseled square		517.99
56 2.6	Warsaw, 3.5 mi S. of; 3.8 mi NW. of Mallard; near the center of sec. 28, T. 4 N., R. 9 W.; 25 ft S. and 37 ft W. of T-rd. W.; in front of school house; 2 ft N. of hwy. right-of-way marker; in concrete post; projecting 4-in. above ground, standard tablet stamped "12 CRN 1963"		515.954
57 3.5	UE, Warsaw, 4.3 mi S. of, in NW $\frac{1}{4}$ sec. 34, T. 4 N., R. 9 W.; on top of N. end of N. retaining wall; chiseled square		511.39
58 4.1	Warsaw, 4.9 mi S. of; near S $\frac{1}{4}$ cor. sec. 34, T. 4 N., R. 9 W.; 280 ft S. of T-rd. E.; 72 ft S. and 15 ft E. of field rd. W.; on E. headwall of concrete culvert; chiseled square		538.34
59 4.3	UE, Mallard, 2.2 mi NW. of; near N $\frac{1}{4}$ cor. sec. 3, T. 3 N., R. 9 W.; at E. end of concrete culvert; on top of N. end of N. retaining wall; chiseled square		513.56
60 4.6	Mallard, 1.9 mi NW. of; 0.14 mi NW. of center of sec. 3, T. 3 N., R. 9 W.; 200 ft S. of junction of private rd. E.; 280 ft S. of farmhouse; on top of N. end of N. wingwall on E. abutment of concrete bridge; chiseled square		516.78
61 5.6	Mallard, 0.9 mi N. of, 0.45 mi N. of center of sec. 10, T. 3 N., R. 9 W.; 260 ft SE. of bridge over Rocky Run Creek, 0.13 mi N. of bridge over drainage canal, on E. side of rd., 11 ft W. of NW. cor. of yard fence of dwelling of J.L. Dougherty, in concrete post; standard tablet stamped "P T S 8 T 1924"		505.394

