

THIRD-ORDER LEVELS  
NATIONAL GEODETIC VERTICAL DATUM OF 1929

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

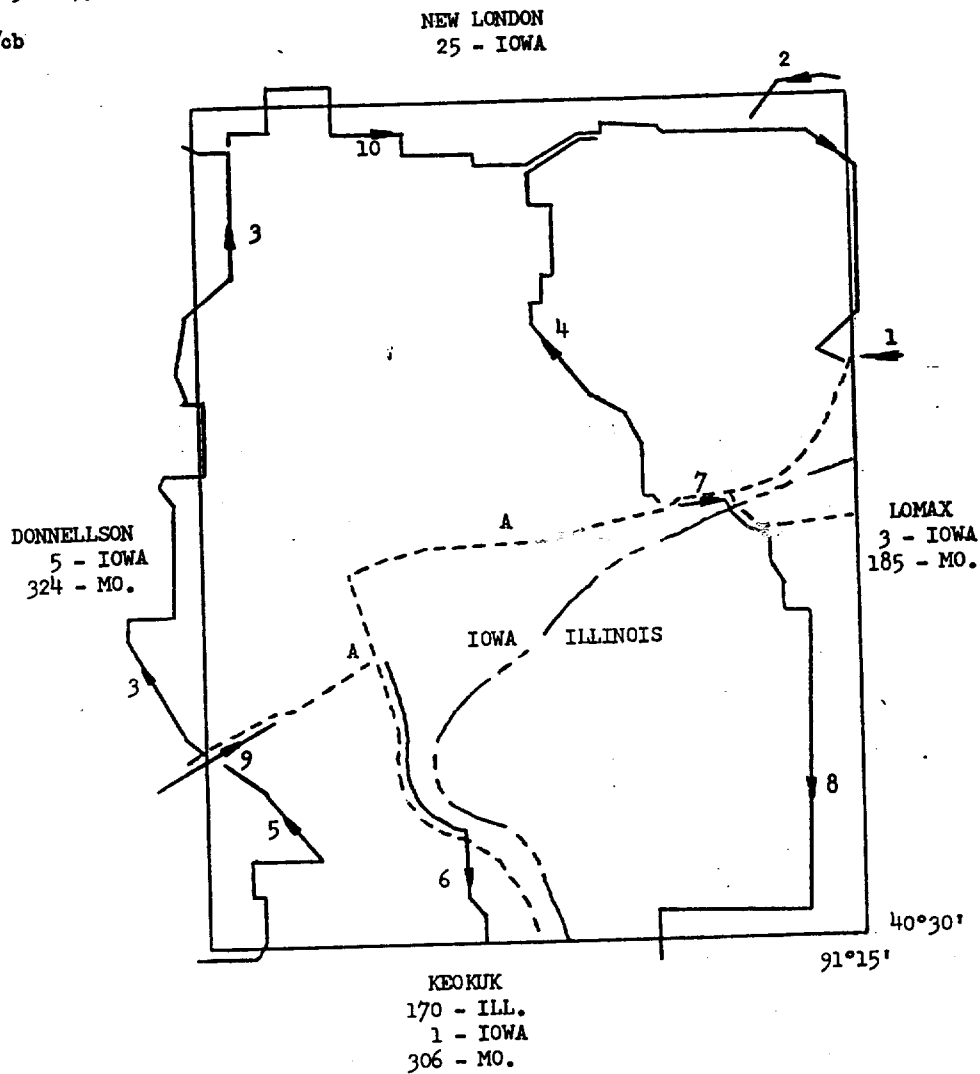
40-091-13  
FORT MADISON QUADRANGLE  
4 - IOWA  
186 - ILLINOIS  
N4030-W9115/15  
DIAGRAM NK 15-12  
BURLINGTON

LEE County, Iowa

Henderson County, Illinois

Edition of: 3-16-77

PR: ADP/LB/cb



N.G.S. (USC&GS) VERTICAL CONTROL DATA

A. Quadrangle No. 400911

40

2  
40-091-13  
FORT MADISON QUADRANGLE  
4 - IOWA  
186 - ILLINOIS

LINE 1

FEET

R. Moran, 1963; Book CV-1578

LOMAX QUAD. - 185

13.0 UE, Ft. Madison, 2.6 mi N. and 3.6 mi E. of intersection of W. end of Mississippi River Toll bridge; near center of sec. 20, T. 68 N., R. 3 W., 60 ft S. and 26 ft W. of T-rd. S.; on metal culvert; in SW. cor. of intersection 515.78

13.8 UE, Ft. Madison, 2.7 mi N. and 2.9 mi E. of intersection of W. end of Mississippi River Toll bridge and U.S. Hwy. 61; near center SE $\frac{1}{4}$  cor. sec. 19, T. 68 N., R. 3 W.; 10 ft N. of center of road; on NE. cor. of bridge; in concrete curbing; I.H.C. Bolt surrounded by white patch 533.81

FORT MADISON QUAD. - 186

14.2 Ft. Madison, 2.7 mi N. and 2.4 mi E. of intersection of W. end of Mississippi River Toll bridge and U.S. Hwy. 61; near center SW $\frac{1}{4}$  sec. 19, T. 68 N., R. 3 W., 23 ft S. and 26 ft W. of T-rd. S.; on top of SW. headwall of concrete culvert; I.H.C. bolt (Elev. by U.S.G.S.) 555.220

14.7 Fort Madison, 4 mi NE. along the Chicago, Burlington and Quincy R.R. from; 0.5 mi SW. of the station at Wescott, 165 yards W. of bridge 206.22, on the S. side of a brick farmhouse owned by Aldor Johnson, 3 ft from the SE. corner, and in the top foundation stone; the center of a copper bolt leaded horizontally and surrounded by letters "USPEM" cut in the stone. (PEM 9) USC&GS elev. 545.468

LINE 2

R. Moran, 1963; Book CV-1578

NEW LONDON QUAD. - 25

6.9 Reference mark 17, is a 0.5-in. galvanized bolt driven into a 12-in. cottonwood tree; 15 ft streamward and 5 ft downstream from gage 537.322

6.9 Reference mark 15, is head of a 0.5-in. bolt driven into the streamward side of 12-in. cottonwood tree, 15 ft upstream from upstream streamward corner of gage house 538.738

7.3 UE, Augusta, 0.4 mi S. of bridge over Skunk River, along Hwy. 394; at junction of Hwy. 394 and Co. road "E" (Augusta Rd.) 50 ft S. and 36 ft W. of intersection; on S. end of culvert under field road; on corrugated culvert 559.8

FORT MADISON QUAD. - 186

8.2 Fort Madison, 9.5 mi N. and E. along State Hwy. 88 and State Hwy. 16 from junction of Hwy. 88 and State Hwy. 103, 1.9 mi E. along Hwy. 16 from junction of Hwy. 88 and Hwy. 16 in Denmark; 0.25 mi W. from NW. cor. sec. 35, T. 69 N., R. 4 W.; near Y-junction of Hwy. 16 and State Hwy. 394; 57 ft S. from center of Hwy. 16; 390 ft W. of center of 394; 24 ft E. of fence corner; 5 ft N. of telephone pole; in concrete post; projecting 6-in.; standard tablet stamped "12 RWM 1963" 662.628

LINE 3

R. Moran, 1963; Book CV-1578

DONNELLSON QUAD. - 5 and 324

0.0 New Boston, 0.8 mi SW. along the Atchison, Topeka and Santa Fe R.R. from the station; at underpass 244 B A (U.S. Hwy. 161 overpass), in face of the SW. pile in the row of piles nearest the NW. track, 25 ft NW. of the center of the NW. track and 3 ft above the track; a USC&GS standard disk stamped "R 120 1935" and set vertically 666.272

DONNELLSON QUAD. 5 IA. - 324 ILL.

FEET

LINE 3 (Cont'd)

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 0.2 UE, Montrose, 1.4 mi N. and 4.1 mi W. of; in U.S. Hwy. 218 overpass, at A.T. & S.F. R.R.; 12 ft NE. of center of hwy. in SE. end of curb; copper nail and washer                                                                                                                                                                                                                                      | 690.61  |
| 1.3 UE, Charleston, 1.8 mi SE. of along U.S. Hwy. 218, 1.1 mi NW. of "R 120" 85 ft N. of telephone pole by fence on NE. side; 15 ft SW. of center of U.S. Hwy. 218; SW. end of concrete culvert; chiseled square                                                                                                                                                                                          | 691.09  |
| 2.0 UE Charleston, 1 mi SE. of along U.S. Hwy. 128, 40 ft SW. of center of U.S. Hwy. 218; SW. of 42-in. elm tree; on fence line on NE. side of Hwy.; SW. headwall; in circle of 9 of impressed date 1920; chiseled circle                                                                                                                                                                                 | 681.01  |
| 2.6 UE, Charleston, 0.55 mi SE. of along U.S. Hwy. 218, 18 ft NE. of center of U.S. Hwy. 218; 50 ft SE. of fence corner; NE. headwall of culvert; chiseled square                                                                                                                                                                                                                                         | 689.32  |
| 3.0 Donnellson, 6.7 mi SE. of junction of Hwy. 218 and State Hwy. 2; in Charleston; 0.2 mi W. of E <sub>1</sub> sec. 22, T. 67 N., R. 6 W.; SW. corner of Charleston Park; 60 ft N. and 400 ft E. of intersection of U.S. Hwy. 218 and Co. Rd. "K"; 27 ft E. of center of N.-S. road; between two 12-in. elm trees; in concrete post; projecting 6-in. above ground; standard tablet stamped "1 RWM 1963" | 698.735 |
| 3.5 UE Charleston, 0.5 mi N. along gravel road at T-rd. intersection; 51 ft W. of intersection; at fence corner; a R.R. spike in telephone pole                                                                                                                                                                                                                                                           | 700.95  |
| 3.9 UE Charleston, 1 mi N. and E. along gravel road; 30 ft N. and 48 ft W. of intersection of road and road leading to white farmhouse; N. end of corrugated culvert                                                                                                                                                                                                                                      | 679.07  |
| 4.5 UE, Charleston, 1.6 mi N. and E. along gravel road; 33 ft S. of center of road; 24 ft W. of fence corner; a R.R. spike in telephone pole                                                                                                                                                                                                                                                              | 697.42  |
| 5.3 UE, Charleston, 2.3 mi N. and E. along gravel road; 27 ft N. and 27 ft W. of intersection of road and road leading to red barn; a R.R. spike in telephone pole                                                                                                                                                                                                                                        | 695.85  |

FORT MADISON QUAD. - 4

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 6.0 Donnellson, 2.25 mi S. and 2.25 mi E. of junction of U.S. Hwy. 218 and State Hwy. 2; 3.1 mi N. and E. of Charleston along gravel road; 0.25 mi S. of N <sub>1</sub> sec. 13, T. 67 N., R. 6 W.; 186 ft S. of center of concrete and steel bridge; 33 ft E. of N.-S. road; 3 ft S. of E.-W. fence; in concrete post; projecting 6-in. above ground; standard tablet stamped "2 RWM 1963" | 593.193 |
| 6.0 Reference mark, 255 ft S. of tablet; NW. corner of concrete and steel bridge; 10 ft W. of center of bridge; by concrete rail abutment; chiseled square in curb                                                                                                                                                                                                                          | 596.12  |
| 6.8 Charleston, 3.9 mi N. and E. along gravel road; 1 mi from junction of gravel road and State Hwy. 2; 42 ft S. and 66 ft W. of T-intersection; a R.R. spike in telephone pole                                                                                                                                                                                                             | 692.54  |
| 7.4 UE, Charleston, 4.6 mi N. and E.; 0.3 mi from Hwy. 2; NW. corner of T-junction; 100 ft SW. of windmill; 35 ft W. of N.-S. gravel road; a R.R. spike in telephone pole                                                                                                                                                                                                                   | 693.66  |
| 8.0 UE Donnellson, 4.3 mi E. along State Hwy. 2, from junction of U.S. Hwy. 218 and State Hwy. 2; in fill of hwy. across valley, 21 ft S. of center of Hwy.; in S. end of concrete culvert; a chiseled square                                                                                                                                                                               | 462.32  |
| 8.5 UE Donnellson, 3.8 mi E. along State Hwy. 2 from junction of U.S. Hwy. 218 and State Hwy. 2; 36 ft N. and 21 ft W. of junction of drive and Hwy. 2; drive leading to Lachmans residence; a rail spike in telephone pole                                                                                                                                                                 | 698.92  |

DONNELLSON QUAD. - 5 IA.

FEET

LINE 3 (Cont'd)

- 9.2 UE, Donnellson, 3.1 mi E. along Hwy. 2 from junction of U.S. Hwy. 218 and Hwy. 2; 51 ft SW. and 33 ft SE. of intersection of Hwy. 2 and road going to garage; by fence corner rail spike in telephone pole 680.12
- 9.8 UE Donnellson, 2.6 mi E. along Hwy. 2 from junction of U.S. 218 and State 2, at T-intersection of Hwy. 2 and road, at corner of chain link fence; 30 ft SW. of center of road; a rail spike in telephone pole 694.17
- 10.2 UE Donnellson, 3.1 mi E. and N. along Hwy. 2 and gravel road from junction of U.S. Hwy. 218 and State Hwy. 2; 0.8 mi W. from "BM 3 RWM" along gravel road, 60 ft NW. of intersection of fence lines; 27 ft SW. from center of road; a rail spike in telephone pole 697.52

FORT MADISON QUAD. - 4 IA.

- 11.0 Donnellson, 3.5 mi E. of junction of U.S. Hwy. 218 and State Hwy. 2, 1 mi E. of Franklin Station, 0.25 mi N. of  $S\frac{1}{4}$  cor. sec. 36, T. 68 N., R. 6 W.; 135 ft S. and 37 ft W. of T-rd. N.; 44 ft S. of center of R.R. track; 9 ft W. of fence corner; 5 ft N. of E.-W. fence; in concrete post; projecting 8-in. above ground; standard tablet stamped "3 RWM 1963" 648.950
- 12.0 UE, Franklin, 2.2 mi S. and E. along gravel road, from tablet "4 RWM" 0.4 mi N. along gravel road from "3 RWM" at intersection of fence lines; 30 ft E. of center of road rail spike in telephone pole 697.05
- 4.2 UE Franklin, 1.4 mi S. and E. along road from "4 RWM" 1.2 mi N. along gravel road from "3 RWM" in wing abutment; NW. corner of bridge; copper nail and washer 616.60

DONNELLSON QUAD. - 5 IA.

- 13.0 UE Franklin, 0.6 mi from tablet "4 RWM" 5\_\_ along road; 2 mi N. and W. along gravel road from tablet "3 RWM" 16 ft E. of center of road painted square on corrugated culvert 665.7
- 13.5 Donnellson, 2 mi N. and 3 mi E. of junction of U.S. Hwy. 218 and State Hwy. 2; in center of Franklin; 0.25 mi W. of NE. cor. sec. 26, T. 68 N., R. 6 W.; in Franklin Park; 42 ft W. from center of gravel road, 96 ft E. of SE. corner of Park Pavillion; 24 ft S. of maple tree; 18 ft W. of telephone pole; in concrete post; projecting 6-in. above ground; standard tablet stamped "4 RWM 1963" 696.688
- 13.9 UE Franklin, 0.3 mi N. and E. along county road "D" 27 ft S. and 27 ft E. of intersection of farm road and "D", in S. flat wing wall; chiseled square 619.55
- 14.4 UE, Franklin, 0.95 mi N. and E. along County Road "D" from "4 RWM" in concrete and steel bridge in concrete curb near abutment on NW. corner; 12\_\_ W. of center of "D" road; chiseled square 582.21
- 15.1 UE, Franklin, 1.6 mi N. and E. along county road "D" from tablet; on steel bridge, in concrete curb; near NW. cor. of bridge; 12 ft from center of road; chiseled square 577.19
- 15.2 UE Franklin, 1.8 mi N. and E. along county road "D" from tablet; in NW. corner of yard; at edge of small garden; 31 ft W. of center of county road "D", a R.R. spike in telephone pole 637.74
- 15.8 UE Franklin, 2.4 mi N. and E. along county road "D" from tablet; 24 ft S. and 15 ft E. of intersection of county road "D" and drive to Fraise House; a R.R. spike in telephone pole 693.85

LINE 5 (Cont'd)

DONNELLSON QUAD. - 5 IA.

FEET

16.3 UE, Franklin, 2.8 mi along county road "D" from tablet; 30 ft N. of center of road, 33 ft SW. of two 24-in. cottonwood trees; a rail spike in telephone pole 689.17

FORT MADISON QUAD. - 4 IA.

16.6 UE, Franklin, 3.3 mi N. and E. along county road "D" from tablet, 36 ft S. of fence corner; 33 ft W. of center of "D", 2 ft E. of fence; a rail spike in telephone pole 705.04

17.1 West Point, 2.2 mi W. of along county road "D" 3.7 mi N. of Franklin along county road "D" 0.15 mi W. of E $\frac{1}{2}$  sec. 12, T. 68 N., R. 6 W., 792 ft SW. thence 36 ft NW. of Y-intersection of county road "D" and gravel road; 27 ft NE. of telephone pole; 3 ft SE. of fence; in concrete post; projecting 6-in. above ground; standard tablet stamped "5 RWM 1963" 661.366

17.4 UE, West Point, 1.75 mi W. of along county road "D", 0.45 mi N. and E. of tablet; at Y-junction; W. side of road at S. angle of road junction, 25 ft W. of center of road; spike in telephone pole 702.68

18.2 UE, West Point, 2 mi from along Hwy. 103 from junction of Hwy. 103 and county road "D" in W. point, at T-junction of road and Hwy.; 35 ft N. and 30 ft W. of intersection; on W. end of round concrete culvert; chiseled square 634.38

18.7 UE, West Point 2.65 mi W. from along State Hwy. 103 and N. along gravel road from junction of Hwy. 103 and County "D", 0.6 mi from tablet; "6 RWM" S. along gravel road; at crossroads 45 ft N. of center of E.-W. road and 38 ft W. of center of N.-S. road; a R.R. spike; in telephone pole 706.70

19.3 West Point, 2 mi W. and 1 mi N. of; near W. quarter cor. sec. 31, T. 69 N., R. 5 W., 528 ft N. of T-rd. intersection; 50 ft E. of center of C.B. & Q. R.R. and road crossing, 34 ft NE. from center of C.B. & Q. R.R. track; in concrete post; 6-in. above ground; standard tablet stamped "6 RWM 1963" 688.990

20.2 UE, Junction, 3.05 mi E. of along "G" from junction of U.S. Hwy. 218 and County "G" 1 mi W. of tablet; along "G" at T-rd. junction, 36 ft S. and 35 ft E. of center of junction; a rail spike in telephone pole at fence corner 692.64

DONNELLSON QUAD. - 5 IA.

20.8 UE Junction, 2.4 mi E. along county road "G" from junction of U.S. Hwy. 218 and county road "G", 1.6 mi W. of tablet; along "G" in SE. corner of bridge; in bent of bridge; copper nail and washer 615.27

21.2 West Point, 1.5 mi N. and 3.5 mi W. of; 1.5 mi S. of St. Paul, near SW. cor. sec. 26, T. 69 N., R. 6 W.; 36 ft N. and 30 ft E. of center of T-rd.; 5 ft W. of telephone pole, 2 ft S. of fence, 33 ft NE. of center of county road "G" in concrete post projecting 9-in. above ground; standard tablet stamped "7 RWM 1963" 691.906

22.1 UE, Junction, 1.5 mi E. along county road "G" from junction of U.S. Hwy. 218 and county road "G", at crossroads; 22 ft S. and 18 ft E. of intersection; on corrugated culvert 692.8

22.2 UE, Junction, 1.4 mi E. along county road "G" from junction of U.S. Hwy. 218 and County Road "G", 34 ft N. of road, 57 ft E. of drive; a rail spike in telephone pole 702.94

23.6 UE, Junction, 100 ft E. from junction of U.S. Hwy. 218 and county road "G" S. end of culvert; 24 ft SE. of road painted square on corrugated culvert 686.6

LINE 5 (Cont'd)

DONNELLSON QUAD. - 5 IA.

FEET

- 24.6 Donnellson, 7.6 mi N. along U.S. Hwy. 218 from the crossing of the C.B. & Q. R.R. at; at the junction of a farm road leading E., 30 ft E. of the center of hwy., 24 ft S., of the center of the road, 3 ft S. of a fence corner, 6-in. W. of a fence, and 1 ft lower than the hwy.; a USC&GS standard disk stamped "T 122 1935" and set in the top of a concrete post 710.642

LINE 4

R. Moran, 1963; Book CV-1578

FORT MADISON QUAD. - 4 IA.

- 0.0 Fort Madison at, on the A.T. & S.F. R.R., 0.8 mi E. of the station, 2 poles E. of milepost 232, at the W. end of bridge over Mississippi River, 12 ft S. of the center of the S. track, in the top of S. end of the W. concrete abutment and 1.5 ft lower than track, a USC&GS standard disk stamped "C 70 1934" 536.272
- 0.7 Fort Madison, at SE. cor. of 9th St. and Avenue "H", 30 ft S. and 42 ft E. of center of intersection; in concrete retaining wall; chiseled square 532.08
- 1.7 UE, Fort Madison, NE. cor. of 18th St. and Ave. "F", by fire plug, 32 ft N. and 39 ft E. of center of intersection; in sidewalk; chiseled square 549.02
- 2.2 UE, Fort Madison, 0.5 mi from intersection of 18th St. and Ave. F along State Hwy. 103; 48 ft W. and 6 ft S. of intersection of Hwy. 103 and drive; in 24-in. tree root; copper nail and washer 606.50
- 2.7 UE, Fort Madison, 1.1 mi from intersection of 18th and Ave. "F" along State Hwy. 103; 60 ft S. and 16 ft E. of intersection of Hwy. 103 and drive; in concrete culvert; Iowa Hwy. Commission (I.H.C.) B.M. 704.94
- 3.7 UE, Fort Madison, 1.9 mi from intersection of 18th and Ave. "F" along State Hwy. 103; 15 ft N. and 200 ft E. of intersection of drive to brick farmhouse and Hwy.; in headwall of a concrete culvert; chiseled square 706.20
- 4.0 Fort Madison, 2.5 mi W. and N. of Junction of State Hwy. 103 and State Hwy. 88; along Hwy. 103; 7.2 ft E. and S. of West Point from junction State Hwy. 103 and County Road "D" along Hwy. 103, center of sec. 29; T. 68 N., R. 6 W.; at T-intersection of Hwy. 103 and gravel road; 69 ft N. of center of Hwy. 103; 60 ft W. of center of road; 6 ft NE. of telephone pole; in concrete post; projecting 6-in. above ground; standard tablet stamped "8 RWM 1963" 715.886
- 4.6 UE, Fort Madison, 3 mi N. from intersection of 18th and Ave. "F" along State Hwy. 103; 21 ft SW. of center of Hwy. in headwall of concrete culvert; Iowa Hwy. Commission (I.H.C.) B.M. 711.01
- 5.4 Fort Madison, 3.9 mi from intersection of 18th and Ave. "F" along State Hwy. 103; at fence corner; 63 ft SW. and 10 ft SE. of intersection of farm road and Hwy.; rail spike in telephone pole 689.66
- 5.5 UE, Fort Madison, 4 mi from intersection of 18th and Ave. "F" along State Hwy. 103; 24 ft W. of center of Hwy., in headwall of concrete culvert; Iowa Hwy. commission (I.H.C.) B.M. 693.82
- 6.3 Fort Madison, 4.5 mi N. of junction of State Hwy. 103 and State Hwy. 88, along Hwy. 103; 4.9 mi E. and S. of W. point from junction State Hwy. 103 and Co. Road "D", along Hwy. 103; SW. corner sec. 18, T. 68 N., R. 4 W.; at T-junction, 51 ft N. and 51 ft W. of intersection, 6 ft NW. of telephone pole; in concrete post; projecting 6-in.; standard tablet stamped "9 RWM 1963" 713.234

LINE 4 (Cont'd)

FORT MADISON QUAD. - 4

FEET

- |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 6.9  | UE, Fort Madison, 5.1 mi from junction of State Hwy. 88 and 103; along Hwy. 103 and gravel road; 0.6 mi from tablet; N. along gravel road, on concrete culvert for animal crossing; 25 ft E. of center of road; chiseled square in concrete culvert                                                                                                                                                                                                                                                                  | 692.68  |
| 7.4  | UE Fort Madison, 5.6 mi W. and N. of junction of State Hwy. 103 and Hwy. 88 along Hwy. 103 and gravel road; 1.1 mi from tablet; N. and E. along gravel road; at T-rd. junction; 60 ft N. and 36 ft W. of center of intersection; at fence corner; a R.R. spike in telephone pole                                                                                                                                                                                                                                     | 712.25  |
| 8.0  | UE Fort Madison, 6.1 mi W. and N. of junction of State Hwy. 103 and 88, along Hwy. 103 and gravel road, 1.6 mi from tablet; N. and E. along gravel road at C.B. & Q. R.R. crossing; 27 ft W. of center of road; in center of tie; copper nail and washer                                                                                                                                                                                                                                                             | 710.78  |
| 8.4  | UE Fort Madison, 6.7 mi W. and N. of junction of Hwy. 103 and 88, along Hwy. 103; 2.2 mi from tablet; N. and E. along gravel road; 30 ft E. of center of road; 10 ft S. of fence corner; rail spike in telephone pole                                                                                                                                                                                                                                                                                                | 715.59  |
| 8.9  | Fort Madison, 7.2 mi W. and N. of junction of State Hwy. 103 and State Hwy. 88, along Hwy. 103 and gravel road; 9.9 mi E. and N. of W. point along Hwy. 103 and gravel road, 2.7 mi N. and E. from tablet; along gravel road, center of sec. 6, T. 68 N., R. 4 W., 45 ft S. and 42 ft E. of intersection of road and driveway; 25 ft S. of fence corner; 20 ft E. of telephone pole; 1 ft W. of fence; in concrete post; projecting 6-in. above ground; standard tablet stamped "10 RWM 1963"                        | 715.594 |
| 9    | UE, Denmark, 3.1 mi S. and W. of junction of State Hwy. 16 and State Hwy. 88; along Hwy. 16 and gravel road, 1 mi W. and N. of tablet; along gravel road; on NW. abutment of bridge; copper nail and washer                                                                                                                                                                                                                                                                                                          | 662.40  |
| 10.2 | UE, Denmark, 2.8 mi S. and W. of junction of Hwy. 16 and State 88 along Hwy. 16 and gravel road, 1.3 mi W. and N. of tablet; along gravel road, 45 ft S. and 33 ft W. of center of intersection; a R.R. spike in telephone pole                                                                                                                                                                                                                                                                                      | 714.02  |
| 10.7 | UE Denmark, 2.15 mi S. and W. of junction of State Hwy. 16 and State Hwy. 88 along Hwy. 16 and gravel road, 1.9 mi W. and N. of tablet; along gravel road, in concrete curb of bridge; SE. corner; chiseled square                                                                                                                                                                                                                                                                                                   | 649.13  |
| 12.0 | Fort Madison, 10.3 mi W. and N. of junction of State Hwy. 103 and 88 along Hwy. 103 and gravel road, 1.1 mi W. and S. of junction of State Hwy. 16 and 88, in Denmark along Hwy. 16 and gravel road; near S $\frac{1}{4}$ cor. sec. 29, T. 69 N., R. 4 W., near T-junction 42 ft N. and 30 ft W. of intersection of road and drive to power substation; 21 ft SE. of SE. chain link fence corner; 3 ft NW. of telephone pole; in concrete post; projecting 6-in. above ground; standard tablet stamped "11 RWM 1963" | 709.514 |
| 12.6 | UE Denmark, center of Denmark park, 0.6 mi E. and N. of tablet; along gravel road and Hwy. 16; on S. side of bank box; on concrete walk in front of steps; chiseled square                                                                                                                                                                                                                                                                                                                                           | 717.85  |
| 13.3 | UE, Denmark, 0.45 mi E. of along Hwy. 16 from junction of Hwy. 16 and State 88; on concrete slabs over well; SE. corner of concrete slab; 45 ft E. of center of Hwy. 16, 8 ft SW. of pink pump; chiseled square                                                                                                                                                                                                                                                                                                      | 708.52  |
| 13.9 | UE, Denmark, 1.05 mi E. of along State Hwy. 16 from junction of Hwy. 16 and State 88; 60 ft S. and 18 ft E. of intersection of farm road and Hwy. 16; a rail spike in telephone pole                                                                                                                                                                                                                                                                                                                                 | 710.46  |

| <u>LINE 4 (Cont'd)</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <u>FORT MADISON QUAD. - 4</u> | <u>FEET</u> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------|
| 14.9 Fort Madison, 9.5 mi N. and E. along State Hwy. 88 and State Hwy. 16 from junction of Hwy. 88 and 103; 1.9 mi E. along Hwy. 16 from junction of 88 and 16 in Denmark; 0.25 mi W. from NW. corner sec. 35, T. 69 N., R. 4 W.; near junction of Hwy. 16 and State 394; 57 ft S. from center of Hwy. 16, 390 ft W. of center of 394; 24 ft E. of fence corner; 5 ft N. of telephone pole; in concrete post; projecting 6-in. standard tablet stamped "12 RWM 1963"                                                           |                               | 662.628     |
| 15.0 Reference mark, 650 ft NE. of tablet; 108 ft N. of State Hwy. 16, 75 ft W. of SW. corner of barn; in 42-in. elm tree; in SW. root; copper nail and washer                                                                                                                                                                                                                                                                                                                                                                 |                               | 654.86      |
| 15.6 UE, Denmark, 2.5 mi E. from along State Hwy. 16 from junction of Hwy. 16 and State Hwy. 88; at crossroads; on N. end of corrugated culvert under field road; 78 ft S. and 29 ft W. of intersection of Hwy. 16 and Augusta Road                                                                                                                                                                                                                                                                                            |                               | 633.4       |
| 16.4 UE Denmark, 3.3 mi E. and S. along State Hwy. 16, from junction of Hwy. 16 and State Hwy. 88; 39 ft S. and 24 ft W. of fence corner; 21 ft N. of center of Hwy. 16; on headwall of concrete culvert; chiseled square                                                                                                                                                                                                                                                                                                      |                               | 665.64      |
| <u>LOMAX QUAD. 3 IA., 185 ILL.</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                               |             |
| 17.1 UE, Denmark, 4.1 mi E. and S. of along State Hwy. 16 and gravel road from junction of Hwy. 16 and State Hwy. 88, 0.09 mi S. and E. of junction of Gravel road and Hwy. 16, approx. 300 ft SW. of junction of Hwy. 16 and gravel road; 27 ft E. of center of road; 19 ft S. of corrugated culvert; in 12-in. tree; stump; copper nail and washer                                                                                                                                                                           |                               | 637.53      |
| 7.6 UE, Denmark, 4.6 mi E. and S. along State Hwy. 16 and gravel road from junction of Hwy. 16 and State Hwy. 88; at T-junction; 57 ft W. and 30 ft N. of intersection of roads; rail spike in telephone pole                                                                                                                                                                                                                                                                                                                  |                               | 672.60      |
| 18.3 Fort Madison, 8.35 mi E. and N. along U.S. Hwy. 61 and gravel road from junction of State Hwy. 103 and State Hwy. 88; 1.4 mi W. and N. along county road "E" and gravel road from junction of road E. and Hwy. 61 in Wever; center of sec. 6, T. 69 N., R. 4 W.; 15 ft S. and 33 ft E. of intersection of farm road and road; 69 ft E. of concrete white corner post; 1 ft N. and 1 ft W. of fence corner; 1 ft E. of telephone pole; concrete post; projecting 6-in. above ground; standard tablet stamped "13 RWM 1963" |                               | 630.155     |
| 18.3 Reference mark, 60 ft W. of tablet; 33 ft W. and 15 ft S. of intersection of road and driveway; in concrete abutment of concrete fence corner post chiseled square                                                                                                                                                                                                                                                                                                                                                        |                               | 631.09      |
| 18.8 UE Wever, 1 mi W. of along county road "E" from junction of Hwy. 61 and "E" at T-junction; 39 ft N. and 30 ft W. of intersection; 33 ft E. of fence corner; on top of concrete post; a chiseled square                                                                                                                                                                                                                                                                                                                    |                               | 561.89      |
| 19.4 UE Wever, 1.2 mi W. and S. along county road "E" and gravel road from junction of "E" and U.S. Hwy. 61; in NW. cor. of bridge; on Planking; copper nail and washer                                                                                                                                                                                                                                                                                                                                                        |                               | 552.00      |
| 20.1 Fort Madison, 6.6 mi E. and N. along U.S. Hwy. 61 from junction of State Hwy. 103 and State Hwy. 88; 1.5 mi S. and W. of Wever along Hwy. 61 from junction of 61 and "E" near S $\frac{1}{4}$ cor. sec. 7, T. 68 N., R. 4 W.; 36 ft NW. and 21 ft SW. of intersection of hwy. 61 and farm road; 180 ft N. of NW. cor. of steel bridge; 41 ft SW. of telephone pole; in concrete post; projecting 6-in. above ground; standard tablet stamped "14 RWM 1963"                                                                |                               | 552.091     |
| 20.1 Reference mark, 180 ft NE. of tablet; in NE. concrete wingwall of steel bridge; 15 ft NW. of center of U.S. Hwy. 61; chiseled square                                                                                                                                                                                                                                                                                                                                                                                      |                               | 550.92      |

LINE 4 (Cont'd)

LOMAX QUAD. - 3 IA. - 186 ILL.

FEET

20.8 UE, Fort Madison, 5.9 mi E. and N. along U.S. Hwy. 61 from Junction of State Hwy. 103 and State Hwy. 88; 57 ft S. of SW. corner of red barn; 30 ft E. and 12 ft N. of intersection of road to house and Hwy. 61; on corrugated culvert 664.3

FORT MADISON QUAD. - 4

21.3 UE, Fort Madison, 5.3 mi E. and N. along U.S. Hwy. 61 from junction of State 103 and 88; 55 ft NE. and 36 ft SE. of intersection of driveway and Hwy. 61; in end of concrete walk leading to red brick house; chiseled square 661.69

22.1 UE, Fort Madison, 4.5 mi E. and N. along Hwy. 61 from junction of Hwy. 103 and 88; at T-junction, 81 ft SW. of center of junction; 51 ft SE. of center of Hwy. 61; rail spike; in telephone pole 660.71

22.7 Iowa Hwy. Comm B.M. (Described in Line 1) 555.220

LINE 5

C.R. Nickerson, 1963; Book CV-1580

KOHOKA NO. 1 QUAD. - 2

0.0 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

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 road fork; in S. end of sidewalk leading to Oak Grove Lutheran Church; chiseled square 669.05

FORT MADISON QUAD. - 4

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 road; in SE. side of power pole; 12-in. above ground; a rail spike 680.18

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 road, 12 ft SW. of center of road; on metal culvert 670.1

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 county road "J" near SW. cor. of 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; a standard tablet stamped "1 GRN 1963" 674.633

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

3.4 UE, Montrose, 8 mi S. and 3.3 mi W. of; near  $S\frac{1}{4}$  cor. sec. 7, T. 66 N., R. 5 W., center of road at drive N.; copper nail and washer 677.98

4.0 UE, Montrose, 0.8 mi S. and 2.8 mi W. of; near SW. cor. sec. 8, T. 66 N., R. 5 W., center of road at fence S.; copper nail and washer 681.48

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FORT MADISON QUADRANGLE  
4 - IOWA  
186 - ILLINOIS

LINE 5 (Cont'd)

FORT MADISON QUAD. - 4

FEET

- 4.8 UE, Montrose, 0.8 mi S. and 2.2 mi W. of; at junction of U.S. Hwy. 218 and county road "J" at intersection of center of roads; copper nail and washer (Destroyed 7-64, H.C.K.) 684.04
- 5.1 UE, Montrose, 0.4 mi S. and 2.5 mi W. of; 0.4 mi NW. from junction of U.S. Hwy. 218 and county road "J", 15 ft SW. of center of hwy., in top of headwall of concrete culvert; a chiseled square 685.75
- 5.1 Montrose, 0.4 mi N. and 3.4 mi W. of post office, 2.3 mi SE. along U.S. Hwy. 218 from New Boston, near SE. cor. of sec. 6, T. 66 N., R. 5 W., 320 ft SE. and 61 ft SW. of T-rd. NE., 2.5 ft E. of power pole; 1 ft N. of E.-W. fence; in concrete post; projecting 6-in. above ground; standard tablet stamped "2 CRN 1963" 690.965
- 5.1 Reference mark, 310 ft NW. of tablet; 70 ft SW. of center of hwy. at NW. end of sidewalk; in N. cor. chiseled square 690.05
- 7.0 UE, Montrose, 0.8 mi N. and 3.6 mi W. of; 1.2 mi SW. of U.S. Hwy. 218 overpass at A.T. & S.F. R.R.; 76 ft NE. of center of hwy. at SW. end of sidewalk; in NE. cor.; chiseled square 685.43
- 7.6 UE, Montrose, 1.4 mi N. and 4.1 mi W. of; 0.4 mi SW. of U.S. Hwy. 218 overpass at A.T. & S.F. R.R., 126 ft NW. of Y-rd., and 15 ft SW. of center of hwy.; in top of headwall of concrete culvert; chiseled square; hole 692.45

DONNELSON QUAD. - 5 IA.

- 3.3 USC&GS "R 120 1935" (Described in Line 3) 666.272

LINE 6

C.R. Nickerson, 1963; Book CV-1580

FORT MADISON QUAD. - 4 IA.

- 0.0 Bricker, 1.2 mi E. along the A.T. & S.F. R.R. from the station at; at the C.B. & Q. R.R. underpass, in the top of the W. backwall, 10 ft S. of the center of the S. track; and 0.5 ft lower than the track; a USC&GS standard disk stamped "U 120 1935" 576.101
- 0.3 UE, Montrose, 3.4 mi N. and 1.4 mi W. of; near N $\frac{1}{2}$  cor. sec. 28, T. 67 N., R. 5 W.; 50 ft S. and 13 ft E. of R.R. crossing; in NW. side of power pole; a rail spike 564.44
- 1.3 UE Montrose, 2.4 mi N. and 1.4 mi W. of; near N $\frac{1}{2}$  cor. sec. 33, T. 67 N., R. 5 W.; 30 ft S. and 15 ft E. of T-rd. N.; in N. side of power pole; a rail spike 566.40
- 1.9 UE Montrose, 2.4 mi N. and 0.9 mi W. of; near NW. cor. sec. 34, T. 67 N., R. 5 W.; 30 ft S. and 60 ft W. of R.R. crossing; in W. side of power pole; 2-in. above ground; a R.R. spike 539.30
- 2.4 Montrose, 2 mi N. and 0.8 mi W. of post office; near center of sec. 34, T. 67 N., R. 5 W., 9 ft S. and 34 ft E. of R.R. crossing; in concrete post; projecting 6-in. above ground; a standard tablet stamped "3 CRN RESET 1966" (To be reset Co. Engr. 11-23-66) 532.862
- 2.4 Reference mark, 300 ft S. and 120 ft W. of tablet; 30 ft E. of center of U.S. Hwy. 61; in NE. cor. of headwall of concrete culvert; chiseled square 528.30
- 3.0 UE, Montrose, 1.4 mi N. and 0.8 mi W. of; near NW. cor. of sec. 3, T. 66 N., R. 5 W.; at junction of U.S. Hwy. 61 and T-rd. W.; at intersection of centerline of roads; copper nail and washer 545.15

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FORT MADISON QUADRANGLE  
4 - IOWA  
186 - ILLINOIS

LINE 6 (Cont'd)

FORT MADISON QUAD. - 4

FEET

- 3.6 UE, Montrose, 0.8 mi N. and 0.7 mi W. of; near  $W\frac{1}{4}$  cor. sec. 3, T. 66 N., R. 5 W., at junction of U.S. Hwy. 61 and Y-rd. S.; at intersection of centerlines of road; copper nail and washer 540.13
- 4.6 Montrose, at; at the SE. corner of the intersection of Main and Cedar Streets, in the E. side of a brick store building, occupied by L. Wahrer and Co., in the upper foundation stone, 3 ft from the N. entrance and 2 ft above the sidewalk; the center of a copper bolt leaded horizontally and surrounded by the letters "USPEM" out in the stone USC&GS elev. USE PEM 3 530.005
- 5.6 UE, Keokuk, 6 mi N. and 0.9 mi E. of junction of U.S. Hwys. 61 and 218; 165 ft SE. of T-rd. SW.; and 36 ft NW. of T-rd. NE.; in power pole 2-in. above ground; rail spike 689.27
- 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.C. Δ Institute: on the right bank of 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 road leading to camps on bluff. Mark is a 4-in. iron pipe and capped, protruding one ft above surface of ground, and 1 meter W. of wire fence in cultivated field. 681.181
- 3 Keokuk, 5 mi N. and 1.5 mi E. of junction of U.S. Hwy. 61 and 218; near NW. cor. of secs. 24, T. 66 N., R. 5 W.: 10 ft N. and 25 ft E. of center of road and drive; on metal culvert 656.0
- 9.1 Keokuk, 4 mi N. and 1.5 mi E. of junction of U.S. Hwys. 61 and 218; 2.3 mi S. and 1 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 ft W. of fence corner; in concrete post projecting 6-in. above ground; standard tablet stamped "4 GRN 1963" 675.512
- 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. of sec. 26, T. 66 N., R. 5 W.; 31 ft W. of road; in power pole; 1 ft above ground; a R.R. spike 653.90

LINE 7

G.R. Nickerson, 1963; Book CV-1580

FORT MADISON QUAD. - 4 IA. - 186 ILL.

- 0.0 East Fort Madison, 1.9 mi E. along the A.T. & S.F. R.R. from the station at midway between poles 229+20 and 229+03, 18 ft W. of the center of private road crossing; 15 ft S. of the center of the S. track, in the top of the W. end of the S. headwall of culvert; and about 3 ft lower than the track, a USC&GS standard disk stamped "B 33 1934" 533.483
- 1.7 UE, Niota, 0.1 mi N. and 0.3 mi E. of; near center of sec. 11, T. 7 N., R. 8 W., 17 ft N. and 36 ft E. of crossroads; top of N. headwall of concrete culvert; bent reinforcing rod 524.72
- 2.6 Niota, 20 ft S. and 50 ft E. from crossroads, 4 ft N. and 1 ft E. from NE. corner of Niota State Bank, at foot of NE. corner of concrete platform, in top of triangular projecting of concrete sidewalk; standard tablet stamped "5 L J 1928" (Recovered 1931) (Also described in Isolated bench marks) 522.155

LINE 8

FEET

C.R. Nickerson, 1963; Book CV-1580

FORT MADISON QUAD. - 186

(This line replaces line by S.R. Archer, 1931)

|      |                                                                                                                                                                                                                                                                                                                                                  |         |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 0.0  | "UE" (Described in Line 7)                                                                                                                                                                                                                                                                                                                       | 524.72  |
| 1.0  | UE, Niota, 0.8 mi S. and 0.6 mi E. of, near center sec. 14, T. 7 N., R. 8 W.; 435 ft N. of T-rd. W. and 32 ft W. of center of road; on W. end of 7 ft round concrete culvert; a chiseled square                                                                                                                                                  | 626.27  |
| 1.1  | UE, Niota, 0.8 mi S. and 0.6 mi E. of; near center sec. 14, T. 7 N., R. 8 W.; center of T-rd. W.; copper nail and washer                                                                                                                                                                                                                         | 645.88  |
| 2.2  | Niota, 1.8 mi SE. thence 0.5 mi E. from, 4 mi N. of Powellton, at Crescent School, near SW. cor. sec. 13, T. 7 N., R. 8 W.; 29 ft N. and 42 ft E. from crossroads, in SW. corner of school-yard, in concrete post; standard tablet stamped "P T S 26 T 1924"                                                                                     | 696.632 |
| 2.2  | Reference mark, 10 ft S. and 20 ft W. from NW. cor. of schoolhouse; in root on W. side of 48-in. hackberry tree; copper nail and washer                                                                                                                                                                                                          | 697.74  |
| 3.2  | UE, Niota, 2.5 mi S. and 1.1 mi E. of; near SE. cor. sec. 23, T. 7 N., R. 8 W.; 23 ft N. and 30 ft W. of crossroads; 7 ft from NE. fence corner; on SE. side; a R.R. spike; in power pole                                                                                                                                                        | 691.56  |
| 4.2  | Niota, 3.5 mi S. and 1.1 mi E. of; near NE. cor. sec. 35, T. 7 N., R. 8 W.; 35 ft N. and 27 ft W. of crossroads; 5 ft from power pole; on concrete box culvert; chiseled square around rock                                                                                                                                                      | 690.96  |
| 5.3  | Powellton, 1 mi N. of, near SE. cor. sec. 35, T. 7 N., R. 8 W., at offset crossroads, 25 ft N. and 75 ft W. from junction of T-rd. N.; 25 ft N. and 28 ft W. from junction of T-rd. S., 45 ft W. of fence corner, opposite fence line along W. side of road S., on N. side of fence, in concrete post; standard tablet stamped "P T S 25 T 1924" | 692.490 |
| 5.3  | Reference mark, 56 ft S. of tablet; 24 ft S. of T-rd. W.; 30 ft W. of T-rd. S.; at offset crossroads, in S. end and top of small round concrete culvert; chiseled square                                                                                                                                                                         | 692.27  |
| 6.3  | UE, Hamilton, 9.4 mi N. and 3.5 mi E. of intersection of U.S. Hwy. 136 and State 96; at Powellton, 35 ft S. and 31 ft W. of crossroads; 1.5 ft SE. from telephone pole; in sidewalk; chiseled square                                                                                                                                             | 693.98  |
| 7.3  | UE, Hamilton, 8.5 mi N. and 3.5 mi E. of intersection of U.S. Hwy. 136 and State 96; near NE. cor. sec. 14, T. 6 N., R. 8 W.; 26 ft S. and 28 ft E. from crossroads; on S. end of metal culvert                                                                                                                                                  | 684.7   |
| 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. secs. 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 above ground; standard tablet stamped "8 CRN 1963"         | 681.269 |
| 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  |
| 9.4  | UE, T. 6 N., R. 8 W., near SW. cor. sec. 14, in NE. angle of crossroads; at E. end of concrete culvert under road N.; on S. wingwall; chiseled square (NOTE: P T S 51 1910 which was near this point has been destroyed)                                                                                                                         | 664.00  |
| 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. sidewalk; by porch of school; chiseled square                                                                                                                                                              | 679.32  |

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FORT MADISON QUADRANGLE  
4 - IOWA  
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LINE 8 (Cont'd)

FORT MADISON QUAD. - 186

FEET

- 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 664.2
- 11.8 UE, Hamilton, 7.9 mi N. and 0.5 mi E. of intersection of Hwy. 136 and 96; near W $\frac{1}{4}$  cor. sec. 16, T. 6 N., R. 8 W.; 15 ft from center of road; in SW. end of headwall of concrete culvert; chiseled square 652.18
- 12.0 "3 LJ 1928" (Described in Isolated List) 669.774

KEOKUK QUAD. - 1 IA., 170 ILL. 306 Mo.

- 12.6 UE, Hamilton, 6.5 mi N. and 0.5 mi E. of intersection of U.S. Hwy. 136 and State 96; near NW. cor. sec. 28, T. 6 N., R. 8 W., 53 ft S. and 46 ft E. from crossroads; in NW. cor. of foundation of corn crib; chiseled square 667.67
- 13.6 Hamilton, 5 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

LINE 9

J.R. Nickerson, 1963; Book CV-1580

DONNELSON QUAD. - 5

- 0.0 USC&GS "R 120 1935" (Described in Line 3) 666.272

FORT MADISON QUAD. - 4

- 1.2 UE, Montrose, 2.2 mi N. and 3.6 mi W. of; 1.1 mi NE. along A.T. & S.F. R.R. from hwy. 218 overpass; close to milepost 243; 18.5 ft SE. from center of two tracks; on bolt in box beside signal; chiseled cross 628.65
- 2.4 UE, Montrose, 2.8 mi N. and 2.6 mi W. of; 2.5 mi NE. along A.T. & S.F. R.R. from Hwy. 218 overpass; in tie of NW. track; copper nail and a washer (Not found 7-64, ELA) 576.16
- 2.7 New Boston, 2 mi NE. along the A.T. & S.F. R.R. from the station at; 120 ft SW. of the station at Brickner, 45 ft SE. of the center of the SE. track, in line with a row of poles, and about 6.5 ft lower than the track, a USC&GS standard disk stamped "T 120 1935" and set in the top of a concrete post 562.939

LINE 10

D.D. Bolin, 1976; Book CV-3332

FORT MADISON QUAD. - 4 IA. - 186 ILL.

- 6 37 0.0 BM, West Point, 2 mi W. and 1 mi N. of; near W. quarter cor. sec. 31, T. 69 N., R. 5 W., 528 ft N. of T-rd. intersection; 50 ft E. of center of C.B. and Q. RR. and road crossing, 34 ft NE. from center of C.B. & Q. R.R. track; in concrete post; 6-in. above the ground; standard tablet stamped "6 RWM 1963" 688.990
- 39 1.3 UE 6 RWM AA; 1.3 mi N. and E. along road from the tablet; T. 69 N., R. 5 W.; in the center of the SE $\frac{1}{4}$  of sec. 30; approx. 72 ft S. of a Y-rd. SE., 15 ft N., 9 ft E. and 0.6 ft higher than the centerline of the steel and concrete bridge over a small perennial creek; 2 ft S. of the N. end of the E. concrete bridge railing, a chiseled square 675.26

LINE 10 (Cont'd)

NEW LONDON QUAD. - 25 IA.

FEET

- 6 41 2.1 UE 6 RWM AB; 1.25 mi N. and 0.75 mi E. of the tablet; T. 69 N., R. 5 W.; near the E. sixteenth cor. between secs. 19 and 30; 99 ft SE., 18 ft ENE. and 3.4 ft lower than the centerline of the Y-rd. E., on top and at the SE. end of the NE. concrete headwall of the concrete box culvert; a chiseled square 704.17
- 43 3.4 BM, West Point; 2.5 mi N. of, T. 69 N., R. 5 W., near the cor. of secs. 20, 21, 28 and 29, 39 ft N., 84 ft W., and 0.1 ft higher than the centerline of the T-rd. W.; 1 ft SE. of the NW. right-of-way fence; 1 ft S. of the witness post; set inside of a 6-in. clay drain, a standard tablet stamped "27 DDB 1976" 712.466
- 44 3.4 Reference mark, 118 ft SE. of the tablet; 21 ft S. and 57 ft W. of the centerline of the T-rd. W.; on top and at the S. end of the round concrete tube type culvert, a chiseled square 708.32  
FORT MADISON QUAD. - 4 IA., 186 ILL.
- 48 4.5 UE 27 A, 1 mi S. of the tablet; T. 69 N., R. 5 W., near the cor. of secs. 28, 29, 32 and 33, 85 ft S., 33 ft E. and 2 ft lower than the centerline of the T-rd. E., on the top of the iron rebar used as hwy. right-of-way marker, projecting 0.7 ft above the ground 768.15
- 50 5.5 UE 27 B, 1 mi S. thence 1 mi E. along road from the tablet; T. 69 N., R. 5 W.; near the cors. of secs. 27, 28, 33 and 34; 26 ft N., 18 ft E. and 3.5 ft lower than the centerline of the crossroads; on top and at the E. end of the round metal culvert, a punched hole 755.41
- 52 6.5 BM, West Point, 1 mi N. and 1.5 mi E. of; T. 69 N., R. 5 W.; near the center of sec. 34, 201 ft N., 30 ft E. and 0.1 ft higher than the centerline of the T-rd. N., 1 ft W. of the E. right-of-way fence, 1 ft N. of the witness post; set inside of a 6-in. clay drain tile, a standard tablet stamped "28 DDB 1976" 729.199
- 53 6.5 Reference mark, 210 ft S. of the tablet; 19 ft N. and 32 ft E. of the centerline of the T-rd. N., on top and at the N. end of the round metal culvert; a punched hole 724.40
- 56 7.6 UE 28 A, 1 mi E. of the tablet; T. 69 N., R. 5 W., near the center of sec. 35; 13 ft S., 42 ft E. and 2.9 ft lower than the centerline of the crossroads; on top and at the S. end of the round metal culvert, a punched hole 726.71
- 58 8.2 UE 28 B, 1.7 mi E. along road from the tablet; T. 69 N., R. 5 W., about 0.2 mi S. of the quarter cor. between secs. 35 and 36, 151 ft NE., 21 ft N. and 2.2 ft lower than the centerline of the Y-rd. NE.; on top and at the N. end of the round metal culvert; a punched hole 730.24
- 59 9.2 UE 28 C, 2.7 mi E. along road from the tablet, T. 69 N., R. 5 W.; about 0.2 mi S. of the quarter cor. between secs. 31 and 36; 16 ft S., 243 ft W. and 4 ft lower than the centerline of the crossroads; on top and at the S. end of the round metal culvert; a punched hole 710.84
- 63 11.0 BM, Madison, 10.3 mi W. and N. of junction of State Hwy. 103 and 88 along Hwy. 103 and gravel road, 1.1 mi W. and S. of junction of State Hwy. 16 and 88, in Denmark, along Hwy. 16 and gravel road; near S $\frac{1}{4}$  cor. sec. 29, T. 69 N., R. 4 W., near T-junction, 42 ft N. and 30 ft W. of intersection of road and drive to power substation; 21 ft SE. of SE. chain link fence corner; 3 ft NW. of telephone pole; in concrete post; projecting 6-in. above ground; standard tablet stamped "11 RWM 1963" 709.514

ISOLATED BENCH MARKS ON NEXT PAGE

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FORT MADISON QUADRANGLE  
4 - IOWA  
186 - ILLINOIS

ISOLATED BENCH MARKS

FEET

|                                                                                                                                                                                                                                                                     |         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Nauvoo, 1.8 mi S. and 3 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 L J 1928" (Recovered in 1931)                                   | 669.774 |
| Nauvoo, 1.7 mi N. and 3 mi E. from, 2.5 mi SW. thence 2 mi S. from Niota, near W $\frac{1}{4}$ cor. sec. 28, T. 7 N., R. 8 W.; 45 ft S. of angle in road from E. to N.; 5 ft E. from fence corner, in concrete post; standard tablet stamped "4 L J 1928"           | 680.626 |
| Niota, 20 ft S. and 50 ft E. from crossroads, 4 ft N. and 1 ft E. from NE. corner of Niota State Bank, at foot of NE. corner of concrete platform, in top of triangular projecting of concrete sidewalk; a standard tablet stamped "5 L J 1928" (Recovered in 1931) | 522.155 |
| Reference mark, 35 ft W. of tablet, on concrete walk; chiseled square                                                                                                                                                                                               | 521.46  |
| Pontoosuc, in S. part of, 25 ft N. and 35 ft W. from intersection of N. track and N.-S. road, 3 ft N. of fence corner post; of right-of-way fence; in concrete post; standard tablet stamped "6 L J 1928" (Elev. by USC&GS)                                         | 531.876 |
| Nauvoo, near center of city, 30 ft S. and 20 ft E. from intersection of Munhallen and Sixteenth Streets, 3 ft S. of fence corner, in concrete post; standard tablet stamped "7 L J 1928"                                                                            | 659.368 |
| Reference mark, 15 ft N. and 40 ft W. from tablet, on concrete walk; chiseled square                                                                                                                                                                                | 658.75  |