

THIRD-ORDER LEVELS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

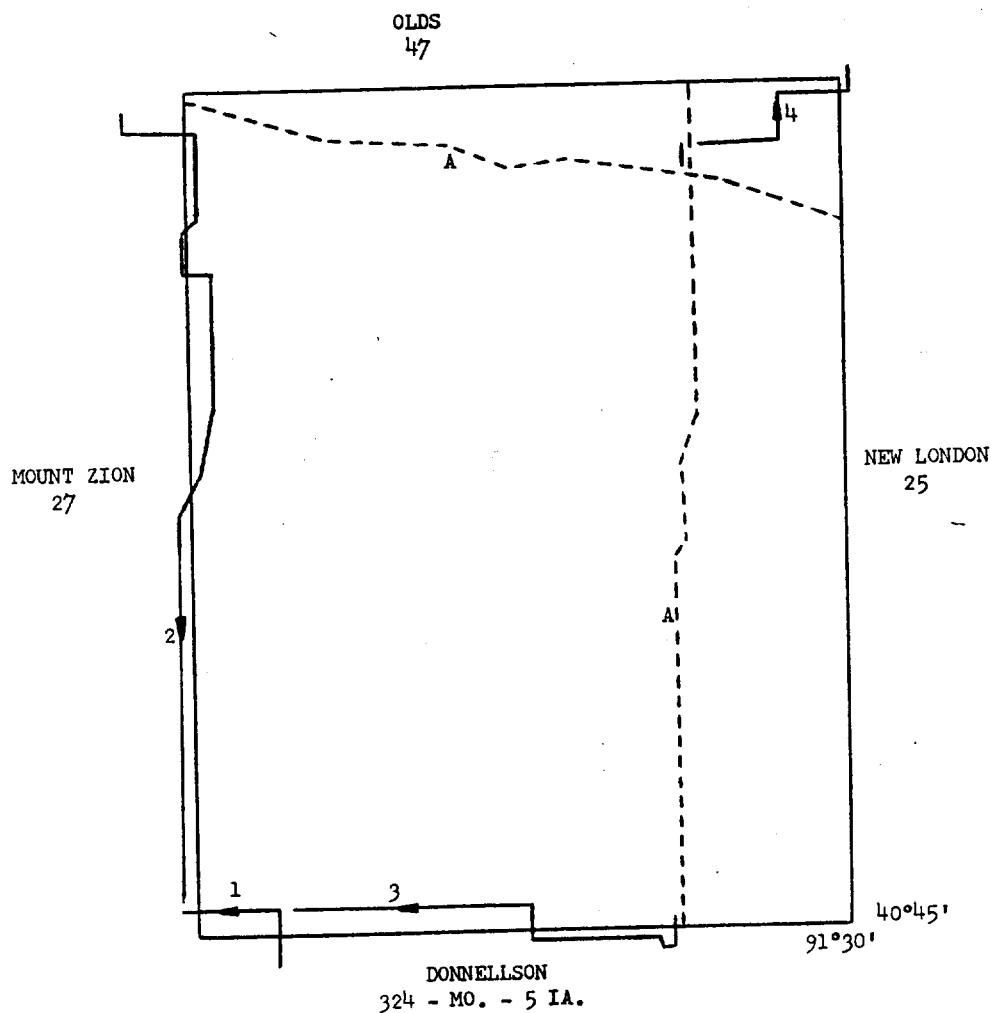
Henry, Lee and Van Buren Counties

Edition of: 3-16-77

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

40-091-41
MOUNT PLEASANT QUADRANGLE
26 - IOWA
N4045-W9130/15
DIAGRAM NK 15-12
BURLINGTON



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

Quadrangle No. 400914

26 D

FEET

LINE 1

R.G. Wood, 1966; Book CV-2050

DONNELLSON QUAD. - 5 IA.

- 7.6 UE 6 RGW B, 1.5 mi N. along a gravel road from tablet; 23 ft S., 30 ft W. and 3.2 ft lower than crossroad; on S. end of 24-in. concrete tube culvert; a chiseled square 739.52

MOUNT PLEASANT QUAD. - 26

- 8.6 Reference mark, about 660 ft S. of tablet; 30 ft E. of center of road at drain crossing; and on E. end of 30-in. concrete tube culvert; a chiseled square 727.65
- 8.6 Farmington, about 8.5 mi N. of; about 4 mi N. and 4.5 mi E. of Bonaparte; T. 69 N., Rs. 7 and 8 W.; near approximate cor. secs. 24, 25, 19 and 30; 36 ft S., 32 ft E. and 2.4 ft lower than crossroad; 6 ft S. of telephone pole; 1.5 ft W. of E. right-of-way fence and in concrete post; a standard tablet stamped "7 RGW 1966" 737.881
- 10.0 UE 7 RGW A, 1.3 mi W. along a gravel road from tablet; 33 ft S., 120 ft E. and 3.2 ft lower than road at driveways N.-S.; on NW. side of power pole; a rail spike 731.18

MT. ZION QUAD. - 27 IA.

- 10.9 Reference mark, 43 ft NE. of tablet; 21 ft N., 6 ft E. and 2.1 ft lower than E.-W. road at field entrance N., on E. end of 24-in. concrete tube culvert; a chiseled square 739.79
- Bonaparte, about 4 mi N. and about 2.2 mi E. of; T. 69 N., R. 8 W.; near quarter cor. secs. 22 and 27; about 600 ft W.-SW. of Fred Eden farmhouse; 18 ft S., 38 ft W. and 1.3 ft lower than E.-W. road at field entrance N., 10 ft W. of road at field entrance S., in concrete post; 2 ft E. of standard witness post; a standard tablet stamped "ET 6 RFP 1966" 740.648

LINE 2

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

MOUNT ZION QUAD. - 27

- 3 1 0.0 BM, 1.4 mi W. along the Chicago, Burlington & Quincy RR. from the station at Lockridge, Jefferson County, at underpass 245.35, in the top of the NE. cor. of the SE. concrete pedestal foundation, 11 ft S. of the centerline of the S. track and 1.5 ft higher than the track, a standard USC&GS disk stamped "U 124 1935" 731.101
- 4 1.0 UE U A, 0.5 mi S. and 0.5 mi E. along road and U.S. Hwy. 34 from the disk; T. 71 and 72 N., R. 8 W. near the quarter cor. between secs. 3 and 4, 30 ft S., 66 ft E. and 0.3 ft lower than the centerline of the crossroads; on top and at the S. end of the round concrete culvert; a chiseled square 723.58

MOUNT PLEASANT QUAD. - 26 IA.

- 6 2.1 UE U B, 0.5 mi S. thence 1.5 mi E. along U.S. Hwy. 34 from the disk; T. 71 and 72 N., R. 8 W., near the center of sec. 2, 29 ft S., 49 ft E. and 1.1 ft lower than the centerline of crossroads; on top and at the S. end of the round concrete culvert; a chiseled square 673.07
- 8 2.9 UE U C, 2.9 mi S. and E. along roads from the disk; T. 71 N., R. 8 W., about 0.25 mi N. of the quarter cor. between secs. 2 and 11, 46 ft N., 10 ft W. and 0.9 ft lower than the centerline of the bridge over Wolf Creek on State Road W 40; on top and at the N. end of the W. concrete railing, a chiseled square 625.43

FEET

LINE 1

R.G. Wood, 1966; Book CV-2050

DONNELLSON QUAD. - 5 IA.

- 7.6 UE 6 RGW B, 1.5 mi N. along a gravel road from tablet; 23 ft S., 30 ft W. and 3.2 ft lower than crossroad; on S. end of 24-in. concrete tube culvert; a chiseled square 739.52

MOUNT PLEASANT QUAD. - 26

- 8.6 Reference mark, about 660 ft S. of tablet; 30 ft E. of center of road at drain crossing; and on E. end of 30-in. concrete tube culvert; a chiseled square 727.65
- 8.6 Farmington, about 8.5 mi N. of; about 4 mi N. and 4.5 mi E. of Bonaparte; T. 69 N., Rs. 7 and 8 W.; near approximate cor. secs. 24, 25, 19 and 30; 36 ft S., 32 ft E. and 2.4 ft lower than crossroad; 6 ft S. of telephone pole; 1.5 ft W. of E. right-of-way fence and in concrete post; a standard tablet stamped "7 RGW 1966" 737.881
- 10.0 UE 7 RGW A, 1.3 mi W. along a gravel road from tablet; 33 ft S., 120 ft E. and 3.2 ft lower than road at driveways N.-S.; on NW. side of power pole; a rail spike 731.18

MT. ZION QUAD. - 27 IA.

- 10.9 Reference mark, 43 ft NE. of tablet; 21 ft N., 6 ft E. and 2.1 ft lower than E.-W. road at field entrance N., on E. end of 24-in. concrete tube culvert; a chiseled square 739.79
- .9 Bonaparte, about 4 mi N. and about 2.2 mi E. of; T. 69 N., R. 8 W.; near quarter cor. secs. 22 and 27; about 600 ft W.-SW. of Fred Eden farmhouse; 18 ft S., 38 ft W. and 1.3 ft lower than E.-W. road at field entrance N., 10 ft W. of road at field entrance S., in concrete post; 2 ft E. of standard witness post; a standard tablet stamped "ET 6 RFP 1966" 740.648

LINE 2

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

MOUNT ZION QUAD. - 27

- 3 1 0.0 BM, 1.4 mi W. along the Chicago, Burlington & Quincy RR. from the station at Lockridge, Jefferson County, at underpass 245.35, in the top of the NE. cor. of the SE. concrete pedestal foundation, 11 ft S. of the centerline of the S. track and 1.5 ft higher than the track, a standard USC&GS disk stamped "U 124 1935" 731.101
- 4 1.0 UE U A, 0.5 mi S. and 0.5 mi E. along road and U.S. Hwy. 34 from the disk; T. 71 and 72 N., R. 8 W. near the quarter cor. between secs. 3 and 4, 30 ft S., 66 ft E. and 0.3 ft lower than the centerline of the crossroads; on top and at the S. end of the round concrete culvert; a chiseled square 723.58

MOUNT PLEASANT QUAD. - 26 IA.

- 6 2.1 UE U B, 0.5 mi S. thence 1.5 mi E. along U.S. Hwy. 34 from the disk; T. 71 and 72 N., R. 8 W., near the center of sec. 2, 29 ft S., 49 ft E. and 1.1 ft lower than the centerline of crossroads; on top and at the S. end of the round concrete culvert; a chiseled square 673.07
- 8 2.9 UE U C, 2.9 mi S. and E. along roads from the disk; T. 71 N., R. 8 W., about 0.25 mi N. of the quarter cor. between secs. 2 and 11, 46 ft N., 10 ft W. and 0.9 ft lower than the centerline of the bridge over Wolf Creek on State Road W 40; on top and at the N. end of the W. concrete railing, a chiseled square 625.43

LINE 2 (Cont'd)

MOUNT PLEASANT QUAD. - 26 IA.

FEET

- 3 11 3.3 UE U D, 1.25 mi S. and 1.5 mi E. along hwy. and roads from the disk; T. 71 N., R. 8 W., about 0.2 mi S. of the quarter cor. between secs. 2 and 11; 66 ft S., 23 ft E.; and 2.9 ft lower than the centerline of the T-rd. W., at the N. entrance to a cemetery on top and at the N. end of the round metal culvert; a punched hole 714.14
- 12 3.9 Reference mark, 45 ft ENE. of the tablet; 21 ft NE. and 9 ft SE. of the centerline of the bridge, on top and at the NE. end of the SE. concrete bridge railing, a chiseled square 639.75
- 13 3.9 BM, Lockridge, 2.5 mi S. along State Route W 40 from; T. 71 N., R. 8 W., in the SE $\frac{1}{4}$ of the SW $\frac{1}{4}$ of sec. 11; 24 ft SW., 9 ft NW. and 0.7 ft higher than the center of the bridge, on top and at the SW. end of the NW. concrete bridge railing, a standard tablet stamped "12 DDB 1976" 640.771
- MOUNT ZION QUAD. - 27
- 17 5.3 UE 12 A, 1.4 mi S. along road from the tablet; T. 71 N., R. 8 W. near the W. sixteenth cor. between secs. 14 and 23; 24 ft S., 295 ft E. and 8.2 ft lower than the centerline of the T-rd. E.; on top and at the S. end of the round metal culvert; a punched hole 738.85
- MOUNT PLEASANT QUAD. - 26
- 20 6.8 UE 12 B, 2.9 mi S. along road from the tablet; T. 71 N., R. 8 W., near the E. sixteenth cor. between secs. 23 and 26; at the N. end of the parking area of the round Prairie Baptist Church; 63 ft S., 32 ft W. and 2.3 ft lower than the centerline of the crossroads; on top and at the N. end of the round metal culvert; a punched hole 741.77
- 2 7.3 BM, Lockridge, 4.5 mi S. and 0.5 mi E. of, 6 mi N. and 1.8 mi W. of Hillsboro; T. 71 N., R. 8 W.; quarter mi E. of the center of section of sec. 26, 39 ft S., 52 ft E. and 2.7 ft lower than the centerline of the T-rd. E., 4 ft S. of the cor. fence post; 1 ft W. of the E. right-of-way fence, 1 ft W. of the witness post; set inside of a 6-in. drain tile, a standard tablet stamped "13 DDB 1976" 741.465
- 24 8.2 UE 13 A, 0.9 mi S. along road from the tablet; T. 71 N., R. 8 W., approx. 1000 ft S. of the center of the NE $\frac{1}{4}$ of sec. 26, 26 ft S., 85 ft W. and 2.6 ft lower than the centerline of the crossroads; on top and at the S. end of the round concrete culvert; a chiseled square 733.47
- 26 9.7 UE 13 B, 2.4 mi S. along road from the tablet; T. 70 N., R. 8 W., in the SW $\frac{1}{4}$ of the SE $\frac{1}{4}$ of sec. 2; 85 ft N., 10 ft E. and 0.1 ft lower than the centerline of the concrete bridge over Big Cedar River on State Route W 40; on top and at the N. end of the E. concrete railing, a chiseled square 624.48
- 28 9.8 UE 13 C, 2.6 mi S. along road from the tablet; T. 70 N., R. 8 W.; near the quarter cor. between secs. 2 and 11, 57 ft N., 34 ft W. and 0.8 ft lower than the centerline of the T-rd. W., on top and at the E. end of the second step leading to the Hickory Grove Church entrance, a chiseled square 677.10
- MOUNT ZION QUAD. - 27
- 32 10.9 Reference mark No. 1 is stamped "VAN NO 1 1955" is a standard disk set in the top of a 10-in. square concrete post that projects 3-in. and at about the same elevation as the station. It is 33.9 ft SE. of the center of the gravel road and 10-in. SW. of a power line pole numbered 630 742.226
- 33 10.9 Triangulation Station, station is located airline about 11 mi E. of Birmingham, 6 mi S. of Lockridge, 4.5 mi NW. of Hillsboro, 0.75 mi S. of Big Cedar Creek and in a small grassy triangle formed by the rounding of the corner where the road turns to the S. The mark is stamped "VAN 1955" and is set in the top of a 10-in. square concrete post that projects 4-in. It is 59 ft W.-NW. of the center of the gravel road, 58 ft E. of the center of a farm road and 9 ft E.-SE. of a witness post 742.403

LINE 2 (Cont'd)

MOUNT ZION GUAD. - 27

FEET

- 35 11.2 UE VAN A, 0.25 mi S. along road from the triangulation station; T. 70 N., R. 8 W., near the cor. of secs. 10, 11, 14 and 15; 13 ft N., 33 ft W. and 1.5 ft lower than the centerline of the crossroads, on top and at the N. end of the round metal culvert; a punched hole 710.13
- 36 11.4 Azimuth Mark, stamped "VAN 1955" is a standard disk set in the top of a 10-in. square concrete post that projects 4-in. It is 24 ft W. of the center of the road, 2 ft E. of a wire fence line and 1 ft N. of a power line pole. 737.324
- 39 13.3 UE VAN B, 2.2 mi S. along road from the tablet; T. 70 N., R. 8 W., near the cors. of secs. 14, 15, 22 and 23, 531 ft S., 24 ft W. and 35.7 ft lower than the centerline of the crossroads, on top and at the N. end of the concrete head wall of the concrete box culvert; a chiseled square 681.07
- 42 14.3 UE VAN C, 3.1 mi S. along road from the tablet; T. 70 N., R. 8 W. near the cor. of secs. 22, 23, 26 and 27; 20 ft S., 59 ft W. and 1.8 ft lower than the centerline of the T-rd. W., on top and at the W. end of the round metal culvert; a punched hole 740.33
- 45 14.8 BM, Hillsboro, 2.3 mi W. of; T. 70 N., R. 8 W., near the quarter cor. between secs. 26 and 27; 20 ft N., 26 ft W. and 0.8 ft lower than the centerline of the crossroads; on top and at the W. end of the concrete headwall of the concrete box culvert; a standard tablet stamped "14 DDB 1976" 723.930
- 14.8 Reference mark, 63 ft SE. of the tablet; 24 ft S., and 21 ft E. of the centerline of the crossroads; on top and 5 ft from the E. end of the concrete headwall of the concrete box culvert; a chiseled square 723.47
- 49 16.3 UE 14 A, 1.5 mi S. along road from the tablet; T. 69 and 70 N., R. 8 W. near the cor. of secs. 34, 35, 2 and 3, 26 ft N., 33 ft W. and 2.6 ft lower than the centerline of the crossroads; on top and at the N. end of the round concrete culvert; a chiseled square 731.54
- 54 18.4 Reference mark, 85 ft W. of the tablet; 20 ft S. and 25 ft W. centerline of the crossroads; on top of the S. end of the round metal culvert; a punched hole 743.47
- 55 18.4 BM, Hillsboro, 3.5 mi S. and 2.3 mi W. of; T. 69 N., R. 8 W. near the cor. of secs. 10, 11, 14 and 15; 21 ft S., 60 ft E. and 2.0 ft lower than the centerline of the crossroads; 16 ft E. of the field entrance S., 11 ft E. of the E. gate post; 1 ft N. of the witness post; 1 ft N. of the S.-right-of-way fence; set inside of a 6-in. drain tile, a standard tablet stamped "15 DDB 1976" 743.457
- 57 19.4 UE 15 A, 1 mi S. along road from the tablet; T. 69 N., R. 8 W., near the cor. of secs. 14, 15, 22 and 23; 20 ft N., 20 ft E. and 0.8 ft lower than the centerline of the crossroads; on top and at the E. end of the round metal culvert; a punched hole 738.42
- 61 20.7 ET, Bonaparte, about 4 mi N. and about 2.2 mi E. of; T. 69 N., R. 8 W.; near quarter cor. secs. 22 and 27; about 600 ft W.-SW. of Fred Eden farmhouse; 18 ft S., 38 ft W. and 1.2 ft lower than E.-W. road at field entrance N., 10 ft W. of road at field entrance S., in concrete post; 2 ft E. of standard witness post; a standard tablet stamped "ET 6 RFP 1966" 740.648

LINE 3

FEET

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

MOUNT PLEASANT QUAD. - 26 IA.

6 1 0.0 BM, 7.8 mi N. along U.S. Hwy. 218 from the junction of State Hwy. 2 and Hwy. 218 in Donnellson, at the junction of a farm road leading E., 80 ft E. of the center of Hwy. 218, 71 ft S. of the center of the farm road, 8.5 ft N. of a power pole and 1.5 ft S. of a metal witness post. It is a standard disk stamped "T 122 RESET 1972", set in the top of a 6-in. square concrete monument that projects 8-in. above the ground surface 710.480

DONNELLSON QUAD. - 324 MO. - 5 IA.

1 0.7 UE T A, 0.75 mi S. along U.S. Hwy. 218 from the disk, T. 69 N., R. 7 W.; near the S. sixteenth cor. between secs. 28 and 29, 72 ft N.; 42 ft W. and 2 ft lower than the centerline of the crossroads; on top and at the W. end of the round concrete tube type culvert; a chiseled square 693.16

10 1.9 UE T B, 0.75 mi S. thence 1.1 mi W. along road from the disk; T. 69 N., R. 6 W.; about 500 ft E. of, the quarter cor. between secs. 29 and 30, 9 ft N., 17 ft W. and 0.6 ft higher than the centerline of the steel and concrete bridge over a small creek; on top and at the W. end of the N. concrete railing; a chiseled square 671.22

13 3.0 BM, Mt. Hamill; 0.3 mi S. and 0.5 mi E. of; T. 69 N., R. 6 and 7 W. near the quarter cor. between secs. 25 and 30; 18 ft N., 15 ft W. and 0.7 ft lower than the centerline of the crossroads; on top and near the center of the concrete headwall of the concrete box culvert; a standard tablet stamped "25 DDB 1976" 704.948

14 3.0 Reference mark, 85 ft WSW. of the tablet; 18 ft S. and 93 ft W. of the centerline of the crossroads, on top and at the S. end of the round concrete tube type culvert; a chiseled square 702.35

18 4.0 UE 25 A, 1 mi W. along road from the tablet; T. 69 N., R. 7 W., near the quarter cor. between secs. 25 and 26, 52 ft N., 33 ft E. and 0.5 ft lower than the centerline of the T-rd. E., 1 ft NW. of the N. gate post; on top of a drilled copper coated rod projecting 0.5 ft above the ground 728.88

MOUNT PLEASANT QUAD. - 26 IA.

20 4.5 UE 25 B, 0.5 mi N. and 2 mi W. of the tablet; T. 69 N., R. 7 W., near the cor. of secs. 23, 24, 25 and 26, 33 ft S., 32 ft E. and 0.1 ft higher than the centerline of the crossroads; 1 ft SW. of the cor. fence post, 1 ft W. of the E. right-of-way fence; on top of a drilled copper coated rod, projecting 0.2 ft above the ground 718.59

22 5.6 Reference mark, 56 ft NE. of the tablet; 32 ft S. and 16 ft E. of the crossroads; on top and at the E. end of the round metal culvert; a punched hole 719.56

23 5.6 BM, Mt. Hamill; 0.3 mi N. and 1.5 mi W. of, T. 69 N., R. 7 W., near the cor. of secs. 22, 23, 26 and 27; 64 ft S., 32 ft W. and 0.7 ft lower than the centerline of the crossroads; 3 ft S. of the S. gate post; 1 ft E. of the W. right-of-way fence, 1 ft S. of the witness post; set inside of a 6-in. clay drain tile, a standard tablet stamped "26 DDB 1976" 718.888

25 6.6 UE 26 A, 1 mi W. along road from the tablet; T. 69 N., R. 7 W., near the cor. of secs. 21, 22, 27 and 28; 20 ft N., 111 ft E. and 2.1 ft higher than the centerline of the crossroads, on top and near the center of the N. concrete headwall of the concrete culvert; on a steel reinforcement bar in a chiseled square 697.70

LINE 3 (Cont'd)

MOUNT PLEASANT QUAD. - 26 IA.

FEET

- 6 28 7.8 BM, Mt. Hamill, 0.5 mi N. and 3.8 mi W. of, in the NE. cor. of the NW $\frac{1}{4}$ of the NE $\frac{1}{4}$ of sec. 29, T. 69 N., R. 7 W., about 0.1 mi W. of T-rd. S., 30.6 ft S. of center of road, 14.7 ft E. of fence S., 7.9 ft E. of center of gate, 3 ft N. of a fence in a concrete post; 1.8 ft higher than centerline of T-rd. S., a standard tablet stamped "ET 5 RFP 1966" 732.231
- 29 7.8 Reference mark, 113 ft NW. of the tablet; 31 ft N. and 82 ft W. of the centerline of the E.-W. road at the T-fence S., 2 ft W. of the W. gate post; 1 ft S. of the N. right-of-way fence, on top of a copper coated drilled rod projecting 0.5 ft above the ground 733.17
- 30 8.7 UE ET 5 A, 0.9 mi W. along road from the tablet; T. 69 N., R. 8 W., near the cor. of secs. 19, 20, 29 and 30, 63 ft N., 24 ft E. and 2.6 ft lower than the centerline of the crossroads; on top and at the E. end of the round concrete tube type culvert; a chiseled square 735.85
- 33 9.7 Farmington, about 8.5 mi N. of; about 4 mi N. and 4.5 mi E. of Bonaparte; T. 69 N., Rs. 7 and 8 W.; near approx. cor. secs. 24, 25, 19 and 30; 36 ft S., 32 ft E. and 2.4 ft lower than crossroad; 6 ft S. of telephone pole; 1.5 ft W. of E. right-of-way fence, and in concrete post; a standard tablet stamped "7 RGW 1966" 737.881

LINE 4

D. Bolin, 1976; Book CV-3332

MOUNT PLEASANT QUAD. - 26 IA.

- 15 0.0 BM, At Mt. Pleasant, Henry County, at the city square and at the NW. cor. of the park, a standard USC&GS disk stamped "MT. PLEASANT 1 1934" and set in the top of a concrete post 736.101
- 18 1.8 UE G A, approx. 1 mi N. thence 0.5 mi E. along road from the disk; T. 71 N., R. 6 W., about 0.2 mi E. of the quarter cor. between secs. 3 and 4 and at the junction of U.S. Hwy. 218 and county route H 38; 51 ft N., 66 ft E. and ft lower than the centerline of the cross hwy., 1 ft S. of a power pole; on top of the projecting steel rebar on the concrete hwy. right-of-way marker 734.98
- 22 3.8 UE G B, about 1 mi N. thence 1.6 mi E. of the disk; T. 71 N., R. 6 W., about 0.2 mi E. of the quarter cor. between secs. 2 and 3; 34 ft S., 8 ft E. and 3.6 ft lower than the T-rd. N. on top and at the E. end of the round metal culvert; a punched hole 716.37
- 23 4.5 BM, Mt. Pleasant, about 2 mi N. and 1.5 mi E. of; T. 72 N., R. 6 W., near the center of the SW $\frac{1}{4}$ of sec. 35, 33 ft S., 7 ft E. and 0.1 ft higher than the centerline of the iron and concrete bridge over South Big Creek; on top and 3 ft N. of the S. end of the E. concrete railing, a standard tablet stamped "29 DDB 1976" 674.404
- 24 4.5 Reference mark, 62 ft N. of the tablet; 31 ft N. and 13 ft E. of the centerline of the bridge on top of the NE. wingwall; a chiseled square 674.10

WINFIELD QUAD. - 46

- 26 5.7 UE 29 A, 1.3 mi N. and E. along road from the tablet; T. 72 N., R. 6 W., near the W. sixteenth cor. between the NW $\frac{1}{4}$ and the SW $\frac{1}{4}$ of sec. 35, 15 ft N., 375 ft W. and 4.6 ft lower than the centerline of the T-rd. N. on top and at the N. end of the round metal culvert; a punched hole 713.15
- 31 7.1 UE 29 B, 2.7 mi N. and E. along road from the tablet; T. 72 N., R. 5 W., near the SW. cor. of sec. 30; 16 ft N., 479 ft E. and 1.1 ft lower than the centerline of the crossroads; on top and near the NW. end of the NW. concrete wingwall of the small iron and concrete bridge, a chiseled cross 683.46