

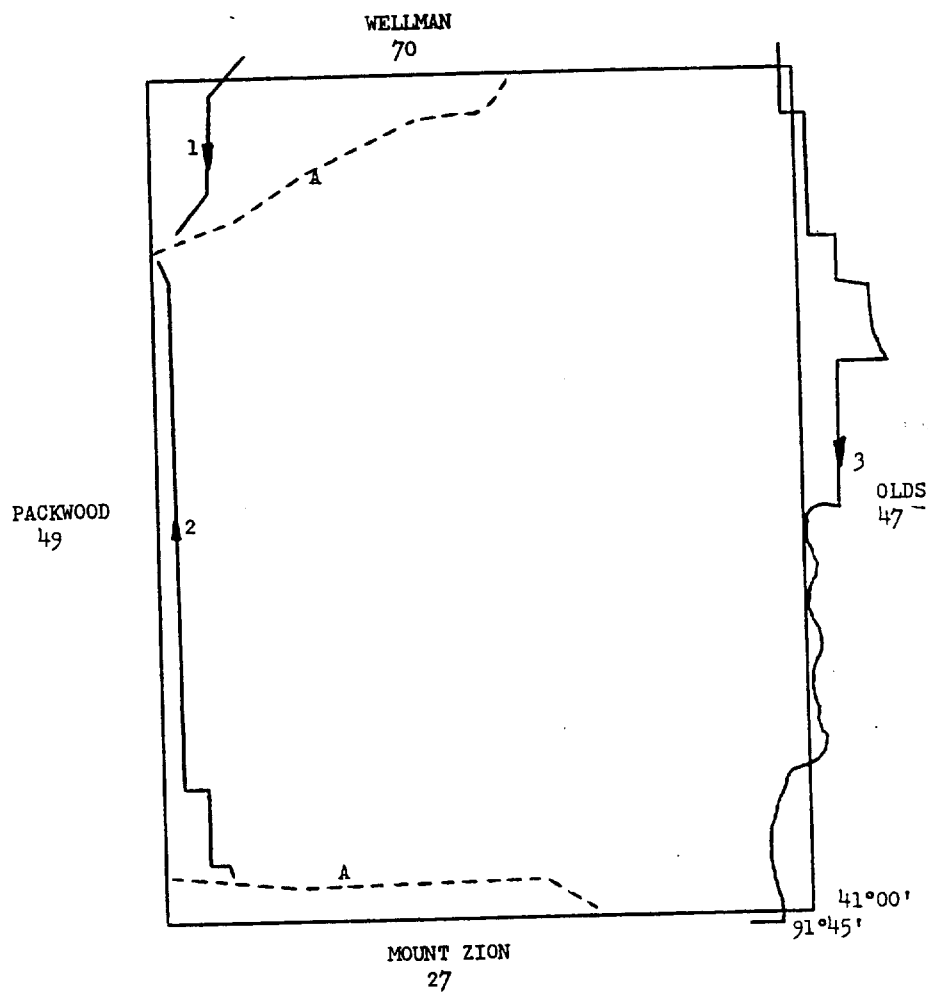
THIRD-ORDER LEVELS
NATIONAL GEODETIC VERTICAL DATUM OF 1929
Washington, Jefferson and Keokuk Counties

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

41-091-33
PLEASANT PLAIN QUADRANGLE
48 - IOWA
N4100-W9145/15
DIAGRAM NK 15-9
DAVENPORT

Edition of: 3-16-77

PR: ADP/LB/cb



U.S. (USC&GS) VERTICAL CONTROL DATA

Quadrangle No. 410913

LINE 1

FEET

D.W. Ephlin, 1964; Book CV-1774

WELLMAN QUAD. - 70

25.8 UE 9 DWE A, 1.1 mi S. of tablet; atop the NE. end of the NW. curb of the large steel and concrete bridge over the Skunk River; a chiseled square 640.72

PLEASANT PLAIN QUAD. - 48

26.8 UE 8 DWE B, 2.1 mi S. of tablet; 18 ft S., 44 ft W. and 3.5 ft lower than T-drive W. to farmhouse; in the S. end of an 18-in. concrete culvert; a chiseled square 682.12

27.9 Reference mark, 137 ft N. of tablet; in S. end of a 16-in. concrete culvert; a chiseled square 724.80

27.9 Richland, 2.7 mi N. and 0.7 mi W. of; T. 74 N., R. 10 W., approx. 0.2 mi NE. of cor. secs. 10, 11, 14 and 15; 154 ft S., 60 ft W. and 5.2 ft higher than T-drive W. to farmhouse; 6 ft NW. of power pole; in a concrete post; a standard tablet stamped "9 DWE 1964" 732.326

28.9 UE 9 DWE A, 1 mi S. of tablet; 14 ft SW. along Hwy. 77 from field entrance NW.; 48 ft NW. normal to hwy., and 4.2 ft lower than hwy., in the SW. end of an 18-in. concrete culvert; a chiseled square 734.83

29.9 Richland, 0.25 mi NE. along the C., M. St. P. & P. R.R. from; and in the S. end of the W. abutment of bridge; a USC&GS standard disk stamped "6 1930" 664.739

LINE 2

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

PLEASANT PLAIN QUAD. - 48

2 1 0.0 Triangulation station, at Fairfield, at the SE. cor. of the county courthouse square, 73 ft N. of the E.-W. sidewalk, and 25 ft W. of the N.-S. sidewalk, a standard triangulation disk stamped "FAIRFIELD 1934" and set in the top of a concrete post flush with the ground. 778.050

5 1.9 UE F A, 1.9 mi N. and W. along streets and roads from the disk; T. 72 N., R. 10 W., near the W. sixteenth cor. between secs. 23 and 26, 57 ft N., 24 ft W. and 3.7 ft lower than the centerline of the crossroads, on top and at the W. end of the round metal culvert; a punched hole 768.61

7 3.4 UE F B, 3.4 mi N. and W. along roads from tablet, T. 72 N., R. 10 W.; in the NW $\frac{1}{4}$ of the SE $\frac{1}{4}$ of the SW $\frac{1}{4}$ of sec. 14, 18 ft S., 27 ft E. and 3.7 ft lower than the centerline of the T-rd. S., on top of the concrete headwall; a chiseled square 766.03

9 3.8 UE F C, 3.8 mi N. and W. along roads from the disk; T. 22 N., R. 10 W., 0.25 mi W. of the quarter cor. between secs. 14 and 15; 20 ft N., 256 ft E. and 5.2 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 778.73

12 4.4 Reference mark, 50 ft E. of the tablet; 24 ft N., 25 ft W. centerline of crossroads; on top and at the N. end of the round metal culvert; a punched hole 783.32

13 4.4 BM, Fairfield, 2.5 mi N. and 1.5 mi W. of; T. 72 N., R. 10 W.; 0.25 mi W. of the cor. of secs. 10, 11, 14 and 15, 36 ft N., 76 ft W. and 0.1 ft lower than the centerline of the crossroads; 15 ft W. of the W. gate post; 1 ft S. of the S. right-of-way fence; 1 ft S. of the witness post; set inside of a 6-in. drain tile, a standard tablet stamped "7 DDB 1976" 786.571

LINE 2 (Cont'd)

PLEASANT PLAIN QUAD. - 48

FEET

- | | | | | |
|----|------|---|---|--------|
| 2 | 15 | 5.4 | UE 7 A, 1 mi N. along road from the tablet; T. 72 N., R. 10 W., 0.25 mi W. of the cor. of secs. 2, 3, 10 and 11, 150 ft S. and 21 ft E. and 7.4 ft lower than the centerline of the crossroads; on top and at the E. end of the round concrete culvert; a chiseled square | 781.55 |
| 17 | 6.2 | UE 7 B, 0.75 mi N. and W. along road from the tablet; T. 72 N., R. 10 W.; near the center of sec. 3; 51 ft E., 35 ft S. and 2.8 ft lower than the centerline of the road at curve; 28 ft S. and 0.9 ft W. centerline of field entrance S. on top and at the W. end of the round metal culvert; a punched hole | 798.10 | |
| 19 | 7.2 | BM, Fairfield, 4.8 mi N. and 1.7 mi W. of, T. 73 N., R. 10 W., near the center of sec. 34, 44 ft S., 31 ft E. and 1.1 ft lower than the centerline of the crossroads; 1 ft N. of the S. right-of-way fence, 1 ft N. of the witness post; set inside of a 6-in. drain tile, a standard tablet stamped "8 DDB 1976" | 798.778 | |
| 20 | 7.2 | Reference mark, about 21 ft N. of the tablet; 28 ft S., 26 ft E. centerline of the crossroads; on top and at the S. end of the round concrete culvert; a chiseled square | 796.18 | |
| 23 | 7.9 | UE 8 A, 0.7 mi N. along road from the tablet; T. 73 N., R. 10 W.; about 0.2 mi N. of the quarter cor. between secs. 27 and 34; 24 ft N., 12 ft E. and 0.2 ft higher than the centerline of the bridge; on top at the N. end of the E. concrete railing of the bridge over S. Walnut Creek, a chiseled square | 736.77 | |
| 25 | 8.8 | UE 8 B, 1.6 mi N. along road from the tablet; T. 73 N., R. 10 W., near the quarter cor. between secs. 22 and 27; 21 ft S., 129 ft E. and 6.5 ft lower than the centerline of the crossroads; on top and at the S. end of the round metal culvert; a punched hole | 764.78 | |
| 28 | 10.0 | Reference mark, 15 ft S., 27 ft E. centerline of road at culvert; 2 ft N. of the S. end of the E. concrete headwall; a chiseled square | 735.34 | |
| 29 | 10.0 | BM, Richland, 4.5 mi S. of; T. 73 N., R. 10 W., about 0.2 mi N. of the quarter cor. between secs. 15 and 22, 14 ft W. centerline of road at culvert, 3 ft S. of the N. end of the W. concrete headwall; a standard tablet stamped "9 DDB 1976" | 735.589 | |
| 31 | 10.9 | UE 9 A, 0.9 mi N. along road from the tablet, T. 73 N., R. 10 W., near the quarter cor. between secs. 10 and 15, 37 ft S., 46 ft E. and 5.7 ft lower than the centerline of the crossroads; on top and at the S. end of the round concrete culvert; a chiseled square | 753.51 | |
| 33 | 11.9 | UE 9 B, 1.9 mi N. along road from the tablet; T. 73 N., R. 10 W.; near the quarter cor. between secs. 3 and 10, 39 ft E., 180 ft S. and 4.3 ft lower than the centerline of the crossroads; on top and at the N. end of the round concrete culvert; a chiseled square | 765.36 | |
| 36 | 12.5 | UE 9 C, 2.5 mi N. along road from the tablet; T. 73 N., R. 10 W., near the center of sec. 3; 26 ft N., 22 ft W. and 0.3 ft lower than the centerline of the T-rd. E. on top and at the center of the W. headwall of the concrete box culvert; a chiseled square | 761.48 | |
| 38 | 13.0 | Reference mark, 65 ft E. of the tablet; on top and near the center of the E. concrete headwall of the concrete box culvert; a chiseled square | 740.67 | |
| 39 | 13.0 | BM, Richland, 1.5 mi S. of; T. 72 and 73 N., R. 10 W. near the quarter cor. between secs. 3 and 34, 145 ft N., 26 ft W. and 5.3 ft lower than the centerline of the T-rd. E. on top and at the center of the W. concrete headwall, a standard tablet stamped "10 DDB 1976" | 741.361 | |

LINE 2 (Cont'd)

PLEASANT PLAIN QUAD. - 48

FEET

- 2 42 14.0 UE 10 A, 1 mi N. along road from the tablet; T. 73 N., R. 10 W., near the quarter cor. between secs. 27 and 34, at the S. end of the town of Richland at the junction of State Hwy. 78 and 77; 51 ft N., 48 ft E. and 1.2 ft lower than the centerline of the cross-roads, 1 ft SW. of a manhole cover at the gutter drop; a chiseled square 764.19
- 44 14.6 UE 10 B, 1.6 mi N. along road from the tablet; T. 73 N., R. 10 W.; near the center of secs. 27, 42 ft S., 42 ft W. and 0.2 ft lower than the centerline of the cross-streets; at the SE. cor. of the old water pump foundation, located at the NE. cor. of the city park, a chiseled square 774.87
- 47 15.8 BM, 0.25 mi NE. along the Chicago, Milwaukee, St. Paul and Pacific RR. from Richland, Keokuk County, and in the S. end of the W. abutment of a bridge, a standard USC&GS disk stamped "664.739 P 6 1930" 664.739

LINE 3

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

WELLMAN QUAD. - 70 IA.

- 5 9 4.1 UE W C, 2.7 mi S. along road from the tablet; T. 75 N., R. 8 W., near the S. sixteenth cor. between secs. 34 and 35, 40 ft N., 33 ft E. and 1.3 ft lower than the centerline of the T-rd. E., 0.5 ft W. of the cor. fence post; on top of a drilled copper rod projecting 0.5 ft above the ground 756.50

PLEASANT PLAIN QUAD. - 48

- 11 5.3 Reference mark, 145 ft NW. of the tablet; 96 ft N.; 19 ft W. and 1 ft N. of the S. end of the W. concrete headwall of the concrete box culvert; a chiseled square 679.49
- 12 5.4 BM, Washington, 4 mi S. and 3 mi W. of; T. 74 N., R. 8 W., near the cor. of secs. 2, 3, 10 and 11, 18 ft S., 71 ft E. and 5.5 ft lower than the centerline of the T-rd. N., on top and at the W. end of the S. concrete headwall of the concrete box culvert; a standard tablet stamped "19 DDB 1976" 678.680

OLDS QUAD. - 47 IA.

- 14 5.9 UE 19 A, 0.5 mi E. along road from the tablet; T. 74 N., R. 8 W., at the quarter cor. between secs. 2 and 11; 21 ft N., 20 ft W. and 3.4 ft lower than the centerline of the T-rd. S. on top and at the W. end of the round metal culvert; a punched hole 720.68
- 17 7.1 UE 19 B, 0.5 mi E. thence 1 mi S. along road from the tablet; T. 74 N., R. 8 W., near the quarter cor. between secs. 11 and 14; 610 ft S. and 36.3 ft lower than the centerline of the crossroads; 9 ft S. and 18 ft W. of the centerline of N.-S. road at the field entrance W.; on top and at the S. end of the round concrete culvert; a chiseled square 657.86
- 19 7.5 UE 19 C, 0.5 mi E. thence 1.5 mi S. along road from the tablet; T. 74 N., R. 8 W., near the center of sec. 14, 13 ft N., 26 ft W. and 0.9 ft lower than the centerline of the crossroads; on top and at the N. end of the round metal culvert; a punched hole 644.65
- 22 8.5 Reference mark, 435 ft WNW. of the tablet; 39 ft N. and 21 ft E. of the centerline of T-rd. N. on top and at the E. end of the round metal culvert; a punched hole 615.91
- 23 8.5 BM, Brighton, 1.5 mi N. and 3.75 mi E. of; T. 74 N., R. 8 W., near the center of secs. 23, 45 ft N., 456 ft E. and 1.8 ft lower than the centerline of the T-rd. N. (meas. normal to crossroads), at the slight jog in the N. right-of-way fence, 1 ft S. of the N. right-of-way fence; 1 ft S. of the witness post; set inside of a 6-in. clay drain tile, a standard tablet stamped "20 DDB 1976" 617.799

OLDS QUAD. - 47

FEET

LINE 3 (Cont'd)

25	9.0	UE 20 A, 0.5 mi E. along road from the tablet; T. 74 N., R. 8 E., near the quarter cor. between secs. 23 and 24, 26 ft S., 20 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	621.93
28	10.8	UE 20 B, 1.5 mi S. and 1 mi E. along road from the tablet; T. 74 N., R. 8 W., about 0.2 mi E. of the center of secs. 25; 426 ft S., 18 ft W. and 20.8 ft lower than the centerline of the T-rd. S., on top and at the N. end of the W. concrete headwall of the box culvert; a chiseled square	656.69
32	13.0	Reference mark, 490 ft E. of the tablet; on top and at the E. end of the N. concrete bridge railing, a chiseled square	615.03
33	13.1	BM, Brighton; 1 mi S. and 5.3 mi E. of, near the small town of Coppock; T. 74 N., R. 8 W.; on the SE. cor. of sec. 36, on top and at the W. end of the N. concrete railing of the steel and concrete bridge over Skunk River on State Hwy. 78; a standard tablet stamped "21 DDB 1976"	614.918
36	14.1	UE 21 A, 0.9 mi W. thence 495 ft S. of the tablet; T. 73 N., R. 8 W.; in the NE. cor. of sec. 2, 495 ft S., 15 ft E. and 10.7 ft lower than the centerline of the T-rd. S.; on top and at the NE. end of the W. concrete headwall; of the concrete box culvert; a chiseled square	622.06
39	15.0	UE 21 B, 0.9 mi W. thence 1 mi S. along road from the tablet; T. 73 N., R. 8 W., near the cor. of secs. 1, 2, 11 and 12, 210 ft S., 30 ft E. and 4.4 ft higher than the centerline of the Y-rd. NW.; 15 ft N. of a T-fence E., 1 ft W. of the N. gate post; on top of a drilled copper rod projecting 1 ft above the ground	717.48
40	15.9	Reference mark, 135 ft N. of the tablet; 15 ft S. and 24 ft E. of the centerline of N.-S. road at the private drive E. on top and at the S. end of the round metal culvert; a punched hole	618.55
41	15.9	BM, Coppock; 2 mi S. and 1 mi W. of; T. 73 N., R. 8 W., near the cor. of secs. 11, 12, 13 and 14; 220 ft N., 12 ft E. and 1.6 ft lower than the centerline of the T-rd. W. on top and at the N. end of the E. concrete headwall of the concrete box culvert, a standard tablet stamped "22 DDB 1976"	619.812
43	16.9	UE 22 A, 1 mi S. along road from the tablet; T. 73 N., R. 8 W.; near the cor. of secs. 13, 14, 23 and 24, 18 ft NW. and 4.3 ft lower than the centerline of the road at curve on top and at the NE. end of the NW. concrete headwall of the concrete box culvert; a chiseled square	614.60
46	17.8	UE 22 B, 1 mi S. and 1 mi W. along road from the tablet; T. 73 N., R. 8 W. near the cor. of secs. 14, 15, 22 and 23, 18 ft N., 39 ft E. and 0.4 ft lower than the centerline of the T-rd. E. on the top and at the NW. end of the round metal culvert; a punched hole	725.57
49	19.3	Reference mark, 620 ft N. of the tablet, 650 ft N. and 15 ft W. of the centerline of the T-rd. N., on top and at the W. end of the round concrete culvert; a chiseled square	710.64
51	19.4	BM, Germanville, about 1 mi E. of; T. 73 N., R. 8 W.; in the SE $\frac{1}{4}$ of the NW $\frac{1}{4}$ of sec. 26, 30 ft S., 2 ft lower and in line with extended centerline of the T-rd. N., 11 ft E. of the centerline of field entrance S., 2 ft E. of the E. gate post also T-fence S., and cor. fence post; 1 ft N. of the S. right-of-way fence, 1 ft N. of the witness post; set inside of a 6-in. clay drain tile, a standard tablet stamped "23 DDB 1976"	709.967

OLDS QUAD. - 47

FEET

LINE 3 (Cont'd)

- 5 54 20.4 UE, 23 A, 0.25 mi W. thence 0.7 mi S. along road from the tablet; T. 73 N., R. 8 W., near the center of the NW $\frac{1}{4}$ of sec. 35; 12 ft E. and 0.8 ft lower than the centerline of the road at the small branch crossing; on top and at the N. end of the E. concrete headwall of the concrete box culvert; a chiseled square 600.83
- 56 21.3 UE 23 B, 0.25 mi W. thence 2 mi S. along road from the tablet, T. 72 and 73 N., R. 8 W., about 500 ft E. of the quarter cor. between secs. 2 and 35, 11 ft N. and 175 ft W. and 1.5 ft higher than the centerline of the T-rd. N. on top and at the E. end of the N. concrete railing of the steel and a concrete bridge over a small creek, a chiseled square 600.52
- 60 22.5 UE 23 C, 0.25 mi W. thence 1.7 mi S. along road from the tablet; T. 72 N., R. 8 W., near the quarter cor. between secs. 2 and 11; 170 ft N., 24 ft W. and 2.6 ft lower than the centerline of the Y-rd., 9 ft S. and 24 ft W. of the N.-S. road at the dim field entrance W. opposite private drive E. on top and at the S. end of the round metal culvert; a punched hole 653.65
- 63 22.9 BM, Four Corners, about 2.75 mi N., 1 mi E. of; T. 72 N., R. 8 W.; in the SW $\frac{1}{4}$ of the NE $\frac{1}{4}$ of sec. 11, 26 ft N., 12 ft E. and 1.9 ft higher than the centerline of the concrete bridge over "Turkey Creek", on top of the NE. guard rail; a standard tablet stamped "24 DDB 1976" 603.634
- 64 22.9 Reference mark, 78 ft SSW. of the tablet; 24 ft S. and 12 ft W. of the centerline of the bridge on top and 2 ft N. of, at the S. end of the W. concrete bridge railing, a chiseled square 602.58
- PLEASANT PLAIN QUAD. - 48
- 66 23.5 UE 24 A, 0.6 mi S. along road from the tablet; T. 72 N., R. 8 W.; about 0.2 mi E. of the center of sec. 2; 135 ft SW., 21 ft NW. and 2.6 ft lower than the centerline of the Y-rd. E. which leads to the Mac Coon Access; 21 ft NW. and 10 ft NE. of the dim field entrance to the NW.; on top and at the NE. end of the round metal culvert; a punched hole 704.32
- 69 24.7 UE 24 B, 1.8 mi SW. along road from the tablet; T. 72 N., R. 8 W.; near the center of the NE $\frac{1}{4}$ of sec. 15; 20 ft S., 26 ft W. and 1.8 ft lower than the centerline of road at curve at field road W.; on top and at the S. end of the round concrete culvert; a chiseled square 728.37
- 71 26.2 Reference mark number one is a standard disk stamped "LOCK NO 1 1955" set in a drill hole in the concrete base of the water pump which projects about 4-in. above the ground and is about the same elevation as the station. It is 2.5 ft W. of the water pump, 3 ft E. of the E. edge of a sidewalk and 30 ft N. of the NE. corner of the schoolhouse 739.88
- 72 26.2 Triangulation station, located airline, about 2 mi N.-NW. of Lockridge, about 12 mi W.-NW. of Mt. Pleasant and about 0.1 mi E. of what is locally known as Four Corners, in the SW. corner of the yard of the Four Corners Schoolhouse. The station is a standard disk stamped "LOCK 1955" and set in top of a concrete cylinder which is about 12-in. in diameter and is about 4-in. below the surface of the ground. It is 78 ft W. of the W. side of the schoolhouse, 100 ft S. of the centerline of the graveled road and 18 ft E. of a white witness post and a N.-S. fence line 739.309
- 74 27.4 UE LOCK A, 1.3 mi S. along road from Triangulation Station "LOCK", T. 72 N., R. 8 W., about 0.1 mi N. of the center of sec. 27, 105 ft N., 12 ft W. and 0.3 ft lower than the centerline of the concrete bridge over "Brush Creek", on top and at the N. end of the W. concrete bridge railing; a chiseled square 624.74

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41-091-33
PLEASANT PLAIN QUADRANGLE
48 - IOWA

LINE 3 (Cont'd)

MOUNT ZION QUAD. - 27 IA.

FEET

5	77	28.5	UE Lock B, 2.3 mi S. along road from the Triangulation Station "LOCK", T. 72 N., R. 8 W., in the SE. cor. of the NW $\frac{1}{4}$ of the NE $\frac{1}{4}$ of sec. 34, 63 ft N., 39 ft W. and 2.4 ft lower than the centerline of the T-rd. E. on top and at the W. end of the round concrete culvert; a chiseled square	700.19
80	29.3		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. corner 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