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43-094-22
ALGONA QUADRANGLE
247 - IOWA
N4300-W9400/15
DIAGRAM NK 15-1
FAIRMONT

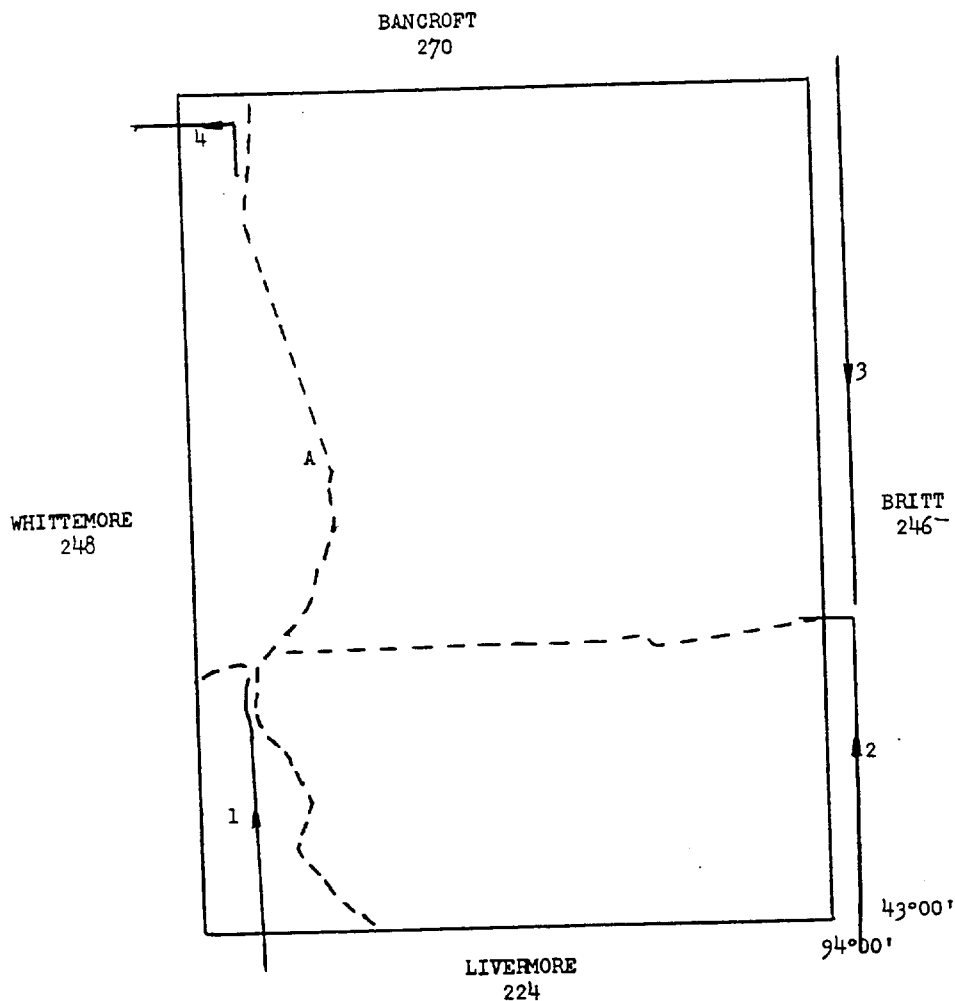
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

THIRD-ORDER LEVELS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

Kossuth County

Edition of: 2-17-77

PR: ADP/LB/cb



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

, Quadrangle No. 430942

247 - A

LINE 1

FEET

W.E. Knouse, 1972; Book CV-2870

LIVERMORE QUAD. - 224

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|----|------|------|--|--------|
| 1 | 33 | 10.7 | UE DALE A, T. 94 N., R. 29 W., near quarter cor. secs. 1 and 2; near center of U.S. Hwy. 169 at fence E. (fence W.) staggered little, top copper rod flush with concrete surface | 1120.7 |
| 34 | 11.9 | | UE Dale B, T. 94 N., and 95 N., R. 29 W., near cor. secs. 1, 2, 35 and 36; center of U.S. 169 at rd. E.; chiseled cross | 1117.0 |

ALGONA QUAD. - 247

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|----|------|--|----------|
| 35 | 12.3 | UE DALE C, T. 95 N., R. 29 W., about 0.1 mi S. of quarter cor. secs. 35 and 36; at center of floor of bridge over East Fork Des Moines River and 17.8 ft above water level (06-13-72); chiseled square | 1116.5 |
| 36 | 12.9 | UE DALE D, T. 95 N., R. 29 W., near cor. secs. 25, 26, 35 and 36; center of U.S. Hwy. 169, at county road crossing, (county rd. B-55), copper nail and washer | 1144.1 |
| 37 | 13.4 | UE DALE E, T. 94 N., R. 29 W., near quarter cor. secs. and ; center of U.S. 69 at rd. E.; copper nail and washer | 1164.4 |
| 38 | 13.9 | RM 4 WEK, T. 95 N., R. 29 W., near cor. secs. 23, 24, 25 and 26; center of U.S. Hwy. 169 at rd. W.; copper nail and washer | 1206.43 |
| 39 | 13.9 | BM 4 WEK, Algona, 2.0 mi S. along U.S. Hwy. 169 from; T. 95 N., R. 29 W., near cor. secs. 23, 24, 25 and 26; 138 ft N. and 50 ft E. of T-rd. W.; 1 ft W. of E. right-of-way fence, a standard cap on top of copper rod and encased in a 6 in. by 1 ft piece of well casing; stamped "4 WEK 1972" | 1208.215 |
| 40 | 14.4 | UE 4 A, T. 95 N., R. 29 W., near quarter cor. secs. 23 and 24; center of U.S. Hwy. 169 at fence E.-W., top of rod flush with asphalt surface | 1215.2 |
| 41 | 14.9 | UE 4 B, T. 95 N., R. 29 W., near cor. secs. 13, 14, 23 and 24; center of US. 169 at crossroads, top of small rod flush with asphalt | 1208.6 |
| 42 | 15.4 | UE 4 C, T. 95 N., R. 29 W., about 400 ft N. of quarter cor. secs. 13 and 14; center of U.S. Hwy. 169 at rd. W.; chiseled cross | 1131.9 |
| 43 | 15.7 | UE 4 D, T. 95 N., R. 29 W., about 0.2 mi S. of cor. secs. 11, 12, 13 and 14, at center floor of bridge over river and 15.9 ft above water level (06-3-72); chiseled cross | 1122.7 |
| 44 | 16.0 | UE 4 E, T. 95 N., R. 29 W. about 0.2 mi N. of cor. secs. 11, 12, 13 and 14; center of U.S. 169 at rd. E.; chiseled cross | 1171.2 |
| 45 | 17.0 | UE 4 F, At Algona, at center of intersection of S. Phillips St. and E. Stark Street; chiseled cross | 1199.6 |
| 46 | 17.4 | At Algona, Dossuth County, 0.6 mi N. of the Chicago and North Western RR. station, at bridge 793, and in the top of the W. end of the N. abutment, a standard USC&GS disk stamped "1201.169 R 1 1930" | 1201.169 |

LINE 2

FEET

W.E. Knouse, 1972; Book CV-2870

BRITT QUAD. - 246

4	1	29.1	UE 18 F, T. 95 and 96 N., R. 27 W., near cor. secs. 1, 2, 35 and 36; centerline of crossroads; copper nail and washer (at S. edge)	1252.2
	2	29.5	Reference mark 19 WEK, T. 96 N., R. 27 W., about 0.4 mi N. of cor. secs. 1, 2, 35 and 36; center of street; intersection (main E.-W. street of Wesley and N.-S. sec. road); chiseled cross	1255.88
	3	29.6	BM 19 WEK, at Wesley, T. 96 N., R. 27 W., in E. center portion of sec. 35; 9 ft S. of S. curb of main E.-W. street; 3 ft W. and 0.5 ft N. of NE. cor. of post office; at base of E. end of window; set in sidewalk; a standard cap; stamped "19 WEK 1972"	1257.711
	4	30.0	UE 19 A, T. 96 N., R. 27 W. in central portion of sec. 35; at W. edge of Wesley; and centerline of old hwy. at crossroads; chiseled cross	1248.7
	5	30.5	UE 19 B, T. 96 N., R. 27 W. between SW $\frac{1}{4}$ sec. 35 and SE $\frac{1}{4}$ cor. sec. 34, crossroads (old Hwy. and N.-S. sec. rd.); top of rod set flush with road surface	1238.2
	6	31.0	UE 19 C, T. 96 N., R. 27 W., in S. central portion of sec. 34; centerline of old hwy. at half mile fence S. (at W. edge of cemetery); top of rod flush with road surface	1218.9
	7	31.5	UE 19 D, T. 96 N., R. 27 W. between SE $\frac{1}{4}$ sec. 33 and SW $\frac{1}{4}$ sec. 34, centerline of old hwy. at N.-S. sec. road; top of rod set flush with road surface <u>ALGONA QUAD. - 247</u>	1198.1
	8	31.5	BM, 1.9 mi W. along U.S. Hwy. 18 from Wesley, Kossuth County, 0.1 mi W. of the SE. cor. of sec. 33, T. 96 N., R. 27 W., at a concrete box culvert, and in the top of the N. headwall, a State Survey standard disk stamped "55 - 4" (Elev. by USC&GS)	1197.658

LINE 3

W.E. Knouse, 1972; Book CV-2870

BUFFALO CENTER QUAD. - 269

5	47	17.0	Titonka, 1.5 mi N. and 2.5 mi E. from along County rds. B 14 and R 14, 11.0 mi N. of Wesley; T. 97 N., R. 98 W., near cor. secs. 1, 2, 35 and 36; 76 ft S. and 49 ft W. of crossroads; 1 ft E. of W. right-of-way fence; a standard cap on a rod type EM & encased in a 6" x 1" piece of clay tile, stamped "25 WEK 1972"	1182.565
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BRITT QUAD. - 246

48	18.8	UE 25 A, T. 97 N., R. 27 W., near cor. secs. 1, 2, 11 and 12; center of crossroads; (also center of floor of bridge as bridge runs diagonally across from crossroads); chiseled square water level 12.8 ft below UE (07-26-72)	1165.4
49	19.3	UE 25 B, T. 97 N., R. 27 W., near quarter cor. secs. 11 and 12; centerline of rd. at road crossing; copper nail and washer	1173.5
50	19.8	UE 25 C, T. 97 N., R. 27 W., near cor. secs. 11, 12, 13 and 14, centerline of crossroads; top of rod in road	1172.5
51	20.3	UE 25 D, T. 97 N., R. 27 W. near quarter cor. secs. 13 and 14; centerline of rd. at E.-W. fence; top of rod in road	1173.8
52	20.8	UE 25 E, T. 97 N., R. 27 W., near cor. secs. 13, 14, 23 and 24; centerline of crossroads; top rod in road	1185.0

BRITT QUAD. - 246

FEET

LINE 3 (Cont'd)

5	53	21.2	Reference mark 26 WEK, T. 97 N., R. 27 W., about 0.3 mi S. of cor. secs. 13, 14, 23 and 24; center of bridge floor and 11.3 ft above water; chiseled square	1176.04
54	21.1		Titonka, 1.8 mi S. and 2.5 mi E. from along Co. Rd. R 14, 7.7 mi N. of Wesley, T. 97 N., R. 27 W., about 0.3 mi S. cor. secs. 13, 14, 23 and 24; near S. end of W. concrete wheel guard; a standard cap set in wheel guard; stamped "26 WEK 1972 RESET 1973"	
			NOTE: The old bridge that the marker was in was widened and the new tablet was placed in the new concrete wheel guard. (SHD 4/73)	1176.608
56	21.8		UE 26 B, T. 97 N., R. 27 W., near cor. secs. 23, 24, 25 and 26; centerline of cross-roads; top of rod in road	1184.8
57	22.3		UE 26 C, T. 97 N., R. 27 W., near quarter cor. secs. 25 and 26; centerline of rd. at E.-W. fence; top of rod in road	1187.9
58	22.8		UE 26 D, T. 97 N., R. 27 W., near cor. secs. 25, 26, 35 and 36; center of wood floor of bridge and 12.8 ft above water level (07-27-72); copper nail and washer	1185.3
59	23.3		UE 26 E, T. 97 N., R. 27 W., near quarter cor. secs. 35 and 36; centerline of rd. at E.-W. fence; top of rod in rock	1195.3
60	23.8		RM 27 WEK, T. 96 N., and 97 N., R. 27 W. near cor. secs. 1, 2, 35 and 36; centerline of crossroads; top rod in road	1205.94
61	23.9		Wesley, 5.0 mi N. from along Co. Rd., 4.5 mi S. and 2.5 mi E. from Titonka, 46 ft S. and 60 ft W. of crossroads on W. r-o-w line; on rod type support and encased in 6 by 1-in. piece of clay tile; standard cap stamped "27 WEK 1972 RESET 1973"	1202.064
62	24.3		UE 27 A, T. 96 N., R. 27 W. near quarter cor. secs. 1 and 2; centerline of rd. at E.-W. fence; top of rod in road	1206.1
63	24.8		UE 27 B, T. 96 N., R. 27 W., near cor. secs. 1, 2, 11 and 12, centerline of crossroads; top of rod in road	1195.7
64	24.9		UE 27 C, T. 96 N., R. 27 W., about 320 ft S. of cor. secs. 1, 2, 11 and 12, center floor of bridge and 12.6 ft above water level; painted square (07-27-72)	1194.0
65	25.3		UE 27 D, T. 96 N., R. 27 W., near quarter cor. secs. 11 and 12, centerline of rd. at E.-W. fence; top of rod in road	1214.0
66	25.8		UE 27 E, T. 96 N., R. 27 W., near cor. secs. 11, 12, 13 and 14, centerline of T-rd. E., top rod in road	1212.4
67	26.3		UE 27 F, T. 96 N., R. 27 W., near quarter cor. secs. 13 and 14; centerline of rd. at fence W., top of rod in road	1242.5
68	26.8		RM 28 WEK, T. 96 N., R. 27 W., near cor. secs. 13, 14, 23 and 24; centerline of rd. at crossroads; top rod in road	1243.10
69	26.9		Wesley, 2.0 mi N. from along Co. Rd. R-14, 7.5 mi S. and 2.5 mi E. from Titonka, T. 96 N., R. 27 W., near cor. secs. 13, 14, 23 and 24; 76 ft S. and 60 ft W. of crossroads on W.r-o-w line, on rod supported RM encased in a 6 by 1-in. clay tile; standard cap stamped "28 WEK 1972 RESET 1973"	1239.344
70	27.3		UE 28 A, T. 96 N., R. 27 W., near quarter cor. secs. 23 and 24, centerline of rd. at fence W.; top rod in road	1241.2
71	27.8		UE 28 B, T. 96 N., R. 27 W., near cor. secs. 23, 24, 25 and 26, centerline of cross-roads; top rod in road	1244.5

5
43-094-22
ALGONA QUADRANGLE
247 - IOWA

BRITT QUAD. - 246

FEET

LINE 3 (Cont'd)

4	72	28.3	UE 28 C, T. 96 N., R. 27 W. near quarter cor. secs. 25 and 26, centerline of rd. at E.-W. fence; top of RR. spike	1242.0
73	28.6		UE 28 D, T. 96 N., R. 27 W., between $S\frac{1}{4}$ secs. 25 and 26; center floor bridge and 8.5 ft above water level (07-28-72); copper nail and washer	1235.7
74	28.8		UE 28 E, T. 96 N., R. 27 W., near cor. secs. 25, 26, 35 and 36; centerline of cross-roads; chiseled cross	1242.7
75	29.4		UE 28 F, T. 96 N., R. 27 W., near quarter cor. secs. 35 and 36; centerline of RR. cross- ing	1255.9
76	29.5		BM 19 WEK (Described in Line 1)	1257.711

LINE 4

ALGONA QUAD. - 247

C.D. Lien, 1976; Book CV-3330

1	2	0.0	BM, 4.5 mi S. along the Chicago and North Western R.R. from Bancroft, Kossuth County, 700 ft S. of bridge 285, 50 ft N. of and 48 ft W. of road at R.R. crossing, 20 ft N. of a fence corner set on top of a concrete post set flush with ground a standard N.G.S. disk stamped "1152.134 K 1 1930", it is in the SE. cor. of sec. 12, T. 97 N., R. 29 W.	1152.134
2	0.9		BM Burt, 2.65 mi N. of along U.S. Hwy. 169, T. 97 N., R. 29 W., near the N. sixteenth cor. between secs. 11 and 12, it is 59 ft E. of centerline of hwy. 169, and 8 ft N. of the S. one of two telephone poles, and 1.4 ft N. of a metal witness post, set on top of a concrete post a standard disk stamped "BURT AZIMUTH MARK 1971"	1169.004
3	1.2		Reference mark 2, it is 62 ft W. of hwy. 169, 91.5 ft SE. of a metal witness post, 5 ft N. of a fence corner and 85.5 ft SE of tri. sta. set on top of a concrete post set flush with ground, a standard disk stamped "R.M. # 2 1971"	1165.410
4	1.2		Burt, 3 mi N. of, T. 97 N., R. 29 W. sec. cors. 1, 2, 11 and 12, 65 ft S. and 102 ft W. of crossroads, 48.5 ft SW. of a power pole and 32 ft NE. of a fence and a metal witness post set on top of a concrete post set flush with ground, a standard USC&GS disk stamped "BURT 1971"	1165.555
5	1.3		Reference mark 1, 51 ft S. of county road B 14, 38 ft NW. of a witness post, 4 ft E.-SE. of a fence corner and 56.1 ft W. of triangulation station BURT, set on top of a concrete post set flush with ground, a standard disk stamped "R.M. #1 1971"	1170.127
6	2.2		UE Burt A, 1 mi W. along road from tablet, a copper nail and washer centerline of road at fence S.	1182.7

WHITTEMORE QUAD. - 248

8	3.3		UE Burt B, 2 mi W. along road from tablet a copper nail and washer in centerline of crossroads	1167.8
10	3.8		Burt, 3 mi N. and 2.57 mi W. of; and Fenton, 1.5 mi N. and 7.43 mi E. of; T. 97 N., R. 29 W. near the quarter cor. between secs. 4 and 9, 415 ft W. of road at N.-S. fence lines, 36 ft S., 27 ft E. of road at drain, 6 ft S. and 27 ft E. of the S. end of a 36-in. concrete culvert cemented in the NE. cor. of an old concrete foundation, a standard tablet stamped "1 CDL 1976"	1162.962