

THIRD-ORDER LEVELS
SEA LEVEL DATUM OF 1929

Final Adjustment of 1973

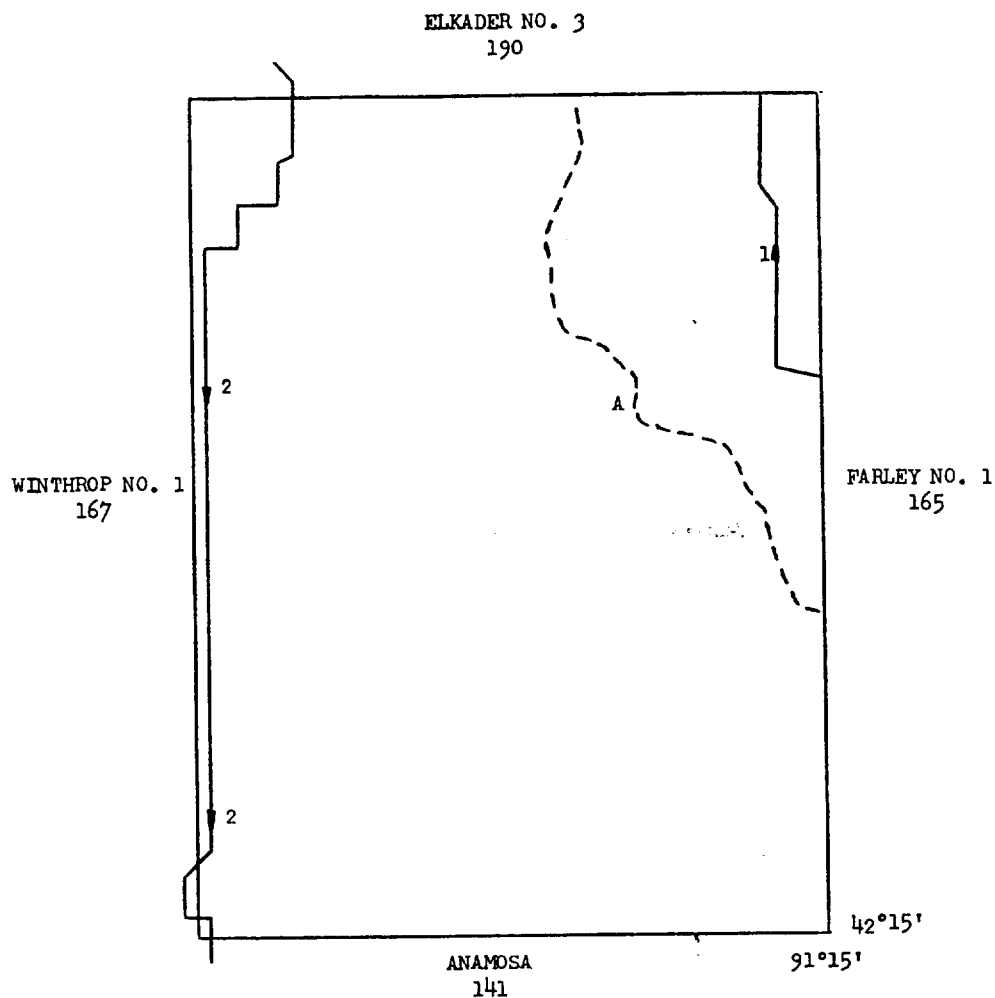
Jones and Delaware Counties

Edition of: 1-21-74

PR: AKH/cb

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

42-091-24
FARLEY NO. 2 QUADRANGLE
166 - IOWA
N4215-W9115/15
DIAGRAM NK 15-6
DUBUQUE



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

1. Quadrangle No. 420912

166B

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 FARLEY NO. 2 QUADRANGLE
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LINE 1FEET

G.D. Scroggins, 1964; Book CV-1754

FARLEY NO. 1 QUAD. - 165

- 6.0 Reference mark, 160 ft ENE. of tablet; 154 ft E. (normal to rd.) 19 ft S., on S. end of 36-in. corrugated metal culvert; a punched hole 1051.83
- 6.0 Delhi, 1.0 mi S. and 4.2 mi E. of; 4.2 mi S. and 1.2 mi E. of Earlville; T. 88 N., R. 3 and 4 W., near S. sixteenth cor. secs. 19 and 24, 64 ft S. and 32 ft E. and 0.6 ft lower than T-rd. S.; 1.0 ft W. of E. right-of-way fence; 10 ft S. of gatepost in S. concrete post; standard tablet stamped "14 GDS 1964" 1055.570

FARLEY NO. 2 QUAD. - 166

- 7.1 UE 14 GDS A, near quarter cor. secs. 23 and 24, T. 88 N., R. 4 W., 56 ft S., 27 ft W. and 6.1 ft lower than T-rd. N.; in base of power line pole; on N. side of a RR. spike 977.78
- 7.6 UE 14 GDS B, in SW $\frac{1}{4}$ sec. 13, T. 88 N., R. 4 W., 5 ft N., 9 ft E. and 1.2 ft higher than field road W.; about 25 ft SW. of S. gate post; on top of N. end of large willow log 1001.21
- 8.1 UE 14 GDS C, at quarter cor. secs. 13 and 14; T. 88 N., R. 4 W., 14 ft S., 20 ft W. and 1.8 ft lower than crossroad; on W. end of 18-in. corrugated metal culvert 1007.8
- 8.7 UE 14 GDS D, near cor. secs. 11, 12, 13 and 14; T. 88 N., R. 4 W., 19.8 ft S. from NW. corner of wooden bridge; 10.8 ft above drain; 1 ft higher than center of bridge; on top of 6 by 6 wood railing; head of bolt with chiseled cross 927.65
- 9.0 Reference mark, 120 ft NNE. of tablet; 32 ft E. of center of Co. road, about 20 ft S. of fence line E.; in W. side of telephone pole; of base of; head of rail spike 949.35
- 9.0 Earlville, 2.5 mi S. and 0.3 mi E. of; 0.8 mi N. and 3.3 mi E. of Delhi, T. 88 N., R. 4 W., near S. sixteenth cor. secs. 11 and 12; 22 ft NE. (normal to road) and 43 ft E. and 0.2 ft lower than center of Co. road at trail E., 4.5 ft NE. of NE. corner of gate post; 0.5 ft E. of E. right-of-way fence; about 150 ft SW. of fence line E.; in concrete post; standard tablet stamped "15 GDS 1964" 947.406
- 9.8 UE 15 GDS A, near cor. secs. 1, 2, 11 and 12; T. 88 N., R. 4 W., 32 ft S., 14 ft W. and 0.5 ft lower than crossroad; on W. end of 18-in. corrugated metal culvert punched hole 1022.1
- 10.3 UE 15 GDS B, near quarter cor. secs. 1 and 2; T. 88 N., R. 4 W., 20 ft S., 35 ft E. and 1.0 ft lower than T-rd. E.; at field entrance S., on W. end of 18-in. corrugated metal culvert; punched hole 1035.83
- 11.0 UE 15 GDS C, near SE. cor. sec. 35, T. 89 N., R. 4 W., 65 ft S., 31 ft E. and 0.2 ft lower than T-rd. S.; (private road S.) about 400 ft S. of new Hwy. U.S. 20 (under construction) on NE. end of 18-in. corrugated metal culvert; punched hole 1026.2
- 12.0 Reference mark, 70 ft SW. of tablet; 23 ft S. and 23 ft E. of T-rd. NE. on corner of concrete foundation of street light; a chiseled square (light has been removed, new foundation and light fixtures replaced) 993.49
- 12.0 Earlville, at, T. 89 N., T. 4 W., near N. sixteenth cor. secs. 35 and 36; 29 ft N. and 23 ft E. and 1.1 ft lower than T-rd. E.; 620 ft S. of U.S. Hwy. 20; 4.5 ft W. of sidewalk; in center of concrete foundation of old street light, a standard tablet stamped "16 GDS 1964" 993.811
- 12.5 UE 16 GDS A, near quarter cor. secs. 25 and 26, T. 89 N., R. 4 W., 19 ft W. and 1.7 ft lower than center of road in center of W. headwall of 2 by 3 ft concrete box culvert; a chiseled square 1001.71

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LINE 1 (Cont'd)ELKADER QUAD. NO. 3 - 190FEET

- 13.1 UE 16 GDS B, in SE $\frac{1}{4}$ sec. 23, T. 89 N., R. 4 W., 17 ft W. and 0.8 ft lower than center of road, 780 ft S. of T-rd. E.; on W. end of 36-in. concrete tube culvert; a chiseled square 996.85
- 14.4 UE 16 GDS C, in NE $\frac{1}{4}$ sec. 24, T. 89 N., R. 4 W., at first grade crossing NW. of USC&GS E.M. H 73; in center of road on top of N. rail 982.3
- 14.8 Petersburg, 2.1 mi NW. along C. & G.W. RR. from station at; 15 poles NW. of milepost 209 at public road crossing; 32 ft W. of center of road, 12 ft N. of center of track; at a 5 by 6 ft stone cattlepass, in top of NE. corner of NW. stone wingwall and 4 ft lower than track; a USC&GS standard disk stamped "H 73 1934" (NOTE: USGS reported mark, 3.0 mi S. and 2.0 mi W. of; T. 89 N., R. 3 and 4 W., near N. sixteenth cor. between secs. 19 and 24; 2000 ft E. of public road crossing; 35 ft W. of N.-S. fence) 965.385

LINE 2R.R. Blaser, 1973; Book CV-3034ELKADER NO. 3 QUAD. - 190

- 1 34 0.0 Manchester, about 1.7 mi N. of intersection of U.S. Hwy. 20 and State Hwy. 13 at; along State Hwy. 13, about 0.3 mi NW. of center of sec. 20, T. 89 N., R. 5 W., about 0.1 mi W. of bridge over Honey Creek; about 0.1 ft E. of bend N. in Hwy. at Y-rd. W.; 65 ft N. of center of Hwy. at drive N. to old unpainted two story farmhouse, 1.9 ft lower than center of Hwy., 7 ft S. of large billboard, 3 ft NW. of fence corner, on top of concrete post; flush with ground; standard tablet stamped "2 JRE 1964 951" 951.230

FARLEY NO. 2 QUAD. - 166

- 36 0.6 UE J 1, T. 89 N., R. 5 W., near the center of the W $\frac{1}{2}$ of the SE $\frac{1}{4}$ of sec. 20, 40 ft N. and 24 ft E. and 1.3 ft higher than centerline of T-rd. W. in W. side of power pole, a RR. spike 954.44
- 38 1.9 UE J 2, T. 89 N., R. 5 W., near the SE. cor. of the SW $\frac{1}{4}$ of the SW $\frac{1}{4}$ of the SE $\frac{1}{4}$ of sec. 29, 26 ft N. and 29 ft E. and 0.7 ft higher than centerline of crossroads (jct. of hwy. 13 and hwy. 20) NW. bolt of the NE. overhanging stoplight on top of 0.1 ft bolt 942.24
- 40 2.0 Reference mark, 294 ft WSW. of BM, 6.0 ft N. and 30 ft W. and 0.7 ft lower than centerline T-rd. E. (Jct. of Franklin and Delaware streets) on the NE. cor. of sidewalk, a chiseled square 939.01
- 42 2.0 Manchester, at the U.S. Post Office in Manchester, T. 89 N., R. 5 W., in the NE $\frac{1}{4}$ of sec. 32, 41 ft N. and 262 ft E. of the Jct. of Franklin and Delaware Streets, 41 ft N. and 77 ft W. and 1.4 ft higher than jct. of Delaware and Madison streets, 2 ft W. of E. end of bottom step to Main entrance of post office standard tablet concrete in step stamped "MAN 1973" 940.924
- 43 2.5 UE J 3, T. 89 N., R. 5 W., about 200 ft N. of the center of the NW $\frac{1}{4}$ of sec. 32, 119 ft N. and 19 ft E. and 4.0 ft higher than jct. of 55th and Warren Streets in NW. side of power pole, a rail spike 942.48
- 46 3.3 Manchester, about 1.0 mi S. and about 0.5 mi W. of, T. 88 N., R. 5 W., near the NW. cor. of the NE $\frac{1}{4}$ of the NE $\frac{1}{4}$ of sec. 6, 106 ft S. and 34 ft W. and 0.8 ft higher than centerline of old Hwy. 13 at road S., to Manchester Farm Equipment Inc., 2.0 ft N. of USGS witness sign 2 ft N. of guyed power pole standard tablet on copper rods set flush with ground and stamped "5 ROD 1973" 941.658
- 47 3.3 Reference mark, 237 ft WSW. of BM, 225 ft S. and 236 ft W. and 3.2 ft higher than centerline of old hwy. 13 at road S. to Manchester Farm Equipment Inc., in N. side of power pole, a R.R. spike 944.07

LINE 2 (Cont'd)FARLEY NO. 2 QUAD. - 166FEET

1 48	4.0	UE 5 A, T. 88 N., Rs. 5 and 6 W. near the N. cor. of secs. 1 and 6, 15 ft N. and 26 ft E. and 0.3 ft higher than centerline of crossroads on SW. cor. of triangular slab of concrete around stop sign, a chiseled square	986.70
52	4.9	UE 5 B, T. 88 N., Rs. 5 and 6 W. near the cor. of secs. 1, 6, 7 and 12, 19 ft S. and 58 ft W. and 2.0 ft lower than centerline of crossroads on S. end of 3.0 ft steel corrugated culvert copper nail and washer	956.66
53	6.0	Reference mark, 183 ft NE. of BM, 139 ft N. and 39 ft E. and 2.5 ft higher than centerline of crossroads in SW. side of power pole, a R.R. spike	1002.61
54	6.0	Manchester, 2.0 mi S. and 2.0 mi W. of, T. 88 N., R. 6 W., near the cor. of secs. 1, 2, 11 and 12, 34 ft N. and 111 ft W. and 4.2 ft lower than centerline of crossroads, 4.6 ft SE. of fence, 4.6 ft SE. of USGS witness sign, standard tablet on copper rods set flush with ground stamped "6 ROD 1973"	995.850
57	7.0	UE 6 A, T. 88 N., R. 6 W., near the cor. of secs. 11, 12, 13 and 14, 37 ft S. and 97 ft E. and 2.1 ft higher than centerline of crossroads in SW. side of power pole, a R.R. spike	988.79
58	8.0	UE 6 B, T. 88 N., R. 6 W., near the cor. of secs. 13, 14, 23 and 24, 225 ft N. and 36 ft E. and 3.2 ft higher than centerline of road at fence W. in W. side of power pole, a R.R. spike	1025.59
60	9.0	Reference mark, 125 ft NE. of BM, 107 ft N. and 32 ft E. and 3.2 ft lower than centerline of road at E.-W. fence in W. side of power pole, a R.R. spike	1026.89
61	9.0	Manchester, about 5.0 mi S. and about 2.0 mi W. of, Ryan, about 4.0 mi N. and about 1.0 mi W. of, T. 88 N., R. 6 W., near the cor. of secs. 23, 24, 25 and 26, 2.0 ft S., and 30 ft W. and 1.5 ft lower than centerline of road at E.-W. fence, 3 ft E. of W. right-of-way fence, 10 ft N. and 3.0 ft E. of USGS witness sign, standard tablet on copper rods set flush with ground stamped "7 ROD 1973"	1028.677
63	10.0	UE 7 A, T. 88 N., R. 6 W., near the cor. of secs. 25, 26, 35 and 36, 196 ft N. and 22 ft E. and 5.4 ft lower than centerline of road at E.-W. fence on N. end of 15 ft steel corrugated culvert, copper nail and washer	1055.63
66	11.1	UE 7 B, T. 88 N., R. 6 W., near the S. cor. of secs. 35 and 36, 44 ft S. and 23 ft W. and 1.3 ft lower than centerline of T-rd. W. on W. end of 2.0 ft steel corrugated culvert; a copper nail and washer	1039.00
68	12.1	Ryan, about 1.0 mi N. and about 1.0 mi W. of, T. 87 N., R. 6 W., near the cor. of secs. 1, 2, 11 and 12, 5 ft N. and 33 ft E. and 4.2 ft lower than centerline of road at E.-W. fence, 2 ft W. of E. right-of-way fence, 7 ft N. and 2 ft W. of USGS witness sign, a standard tablet on copper rods set flush with ground stamped "8 ROD 1973"	1053.163
69	12.1	Reference mark, 85 ft S. of BM, 80 ft S. and 33 ft E. and 0.1 ft lower than centerline of road at E.-W. fence in W. side of power pole; a R.R. spike	1057.30
71	13.1	UE 8 A, T. 87 N., R. 6 W., near the cor. of secs. 11, 12, & 13, 14, 21 ft N. and 46 ft W. and 2.0 ft lower than centerline of crossroads on N. end of 2.0 ft concrete culvert; a chiseled square	1014.35
73	14.2	UE 8 B, T. 87 N., R. 6 W., near the cor. of secs. 13, 14, 23 and 24, 16 ft S. and 26 ft W. and 1.6 ft lower than centerline of crossroads on S. end of 3.0 ft steel corrugated culvert; copper nail and washer	1046.19

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 FARLEY NO. 2 QUADRANGLE
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<u>LINE 2 (Cont'd)</u>		<u>FARLEY NO. 2 QUAD. - 166</u>	<u>FEET</u>
1	76 15.2	Ryan, about 2.0 mi S. and about 1.0 mi W. of, T. 87 N., R. 6 W., near the cor. of secs. 23, 24, 25 and 26, 14 ft S. and 30 ft W. and 1.6 ft lower than centerline of road at fence W., 2 ft E. of W. right-of-way fence, 3 ft S. and 2.0 ft E. of USGS witness sign, standard tablet on copper rods set flush with ground, stamped "9 ROD 1973"	983.824
	77 15.2	Reference mark, 279 ft SSE. of BM, 290 ft S. and 13 ft E. and 0.7 ft lower than centerline of road at fence W., 14 ft S. and 13 ft E. of center of bridge on top of SE. wooden piling; copper nail and washer	984.68
	78 16.2	UE 9 A, T. 87 N., R. 6 W., near the cor. of secs. 25, 26, 35 and 36, 17 ft N. and 41 ft E. and 3.1 ft lower than centerline of crossroads on N. end of 2.0 ft steel corrugated culvert; copper nail and washer	1011.36
2	2 17.2	UE 9 B, T. 87 N., R. 6 W. near the S. cor. of secs. 35 and 36, 26 ft N. and 25 ft E. and 1.4 ft lower than centerline of T-rd. N. on N. end of 1.5 ft steel corrugated culvert; copper nail and washer	986.14
	5 18.2	Reference mark, 214 ft SW. of BM, 88 ft S. and 101 ft W. and 4.2 ft lower than centerline of T-rd. NE. (Road SE. offset) in NE. side of power pole; a R.R. spike	906.42
	6 18.3	Ryan, about 5.0 mi S. and about 1.0 mi W. of, Coggon, about 1.5 mi E. of, T. 86 N., R. 6 W., near the cor. of secs. 1, 2, 11 and 12, 66 ft N. and 48 ft E. and 0.9 ft higher than centerline of T-rd. NE., 2.0 ft E. of W. end of N. headwall of triple 10 ft box culvert; standard tablet concrete in headwall stamped "10 ROD 1973"	911.568
<u>WINTHROP NO. 1 QUAD. - 167</u>			
	8 19.5	UE 10 A, T. 86 N., R. 6 W. near the E. sixteenth cor. between secs. 11 and 14, in the center of wooden floor of bridge; a copper nail and washer	890.46
	10 20.6	UE 10 B, T. 86 N., R. 6 W., near the cor. of secs. 13, 14, 23 and 24, 13 ft N. and 46 ft E. and 2.8 ft lower than centerline of road at curve in SW. side of 6 ft diameter triple trunked elm tree; a R.R. spike	961.05
<u>MARION QUAD. - 142</u>			
	13 21.5	T. 86 N., R. 6 W., near the sixteenth cor. between secs. 23 and 24, Central City, 2.25 mi N., 1.5 mi E. along road, 30 ft N., 32 ft W. from center of road at T-rd. S., 1.5 ft S. of witness post, 2.3 ft lower than T-rd., a standard tablet in a concrete post stamped "11 CDL 1966"	980.190

ISOLATED BENCH MARKS

Delhi, near N. line of sec. 20, T. 88 N., R. 4 W., on E. side of road about 100 ft E. of Chicago, Milwaukee and St. Paul R.R. station; iron post stamped "1016" USC&GS Elev.	1007.590
Delaware, SW $\frac{1}{4}$ sec. 32, T. 88 N., R. 4 W., NW. cor. of street opposite post office and Knowles Hotel, iron post stamped "1089"	1079.668
Golden on quarter sec. line of sec. 31, T. 88 N., R. 5 W., hwy. crossing 150 ft W. of I.C. R.R., N. side of road and S. of station; iron post stamped "1055"	1046.158

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ISOLATED BENCH MARKS (Cont'd)

FEET

Ryan, W. side of sec. 18, T. 87 N., R. 5 W., E. side of road crossing I.C. R.R. about 50 ft N. of R.R. iron post stamped "1020"	1000.789
T. 86 N., R. 5 W., NW. cor. of sec. 10, opposite side of road from Stromburg's residence; iron post stamped "1013" (Destroyed 1-61)	1004.245
Argand post office, S. line of sec., SE SE sec. 4, T. 86 N., R. 4 W., corner of yard at schoolhouse; iron post stamped "977"	967.778