

THIRD-ORDER LEVELS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

Final Adjustment of 1976

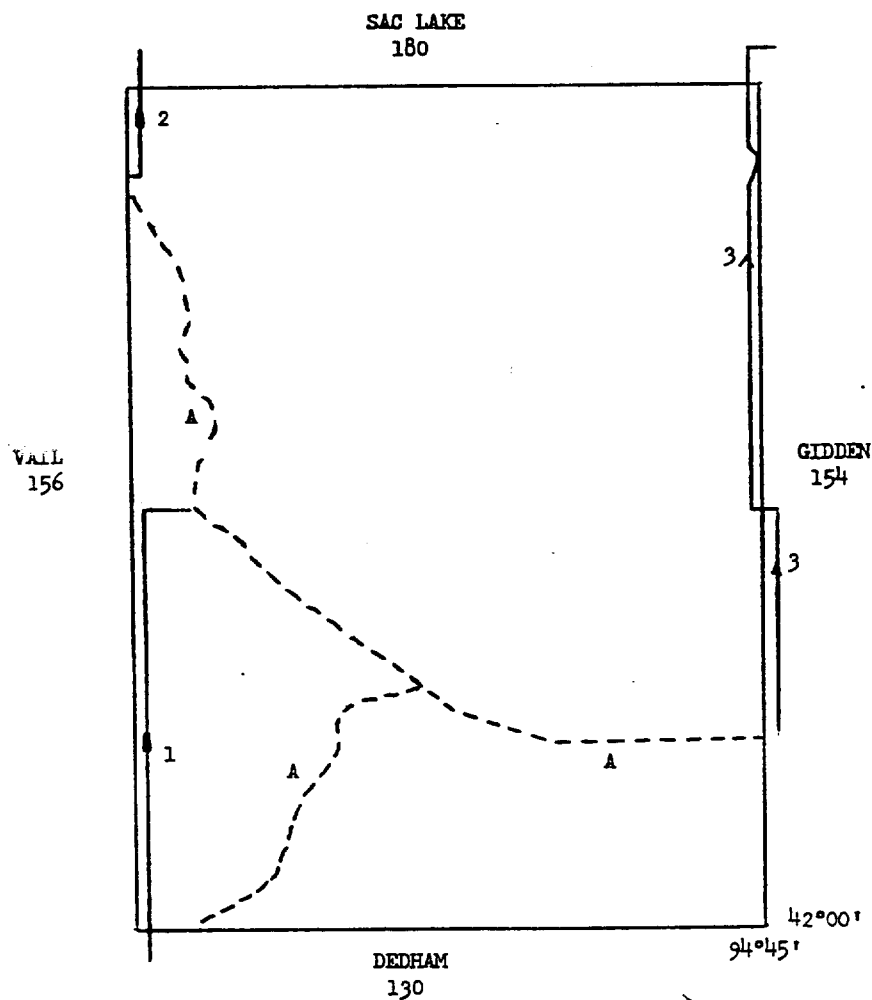
Sac, Carroll and Calhoun Counties

Edition of: 3-30-76

PR: ADP/LB/cvb

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

42-094-33
CARROLL QUADRANGLE
155 - IOWA
N4200-W9445/15
DIAGRAM NK 15-4
FORT DODGE



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

A. Quadrangle No. 420943

155A

LINE 1

FEET

D.D. Bolin, 1975; Book CV-3206

DEDHAM QUAD. - 130

- 2 2 0.0 Manning, Carroll County, 5.45 mi N. and 3.5 mi E. of center of; T. 83 N., R. 36 W., near quarter cor. between secs. 23 and 24, 293 ft S., 30 ft W. and 0.3 ft higher than road at quarter line fence W. (slightly offset with fence E.), 72.5 ft N. and 78 ft E. of NE. corner of a farmhouse, 56 ft N. and 1 ft E. of fence corner N.-W., 24 ft N. of center gate, 3.5 ft S. and 1 ft E. of a fence post, 2 ft S. of a witness sign; a standard tablet crimped to the top of a copper rod stamped "39 PJH 1969" 1420.046

CARROLL QUAD. - 155

- 6 1.7 Reference mark, 490 ft SE. of the tablet; 14 ft N. and 346 ft E. of the centerline of the crossroads, on top and at the W. end of the N. concrete railing, a chiseled square 1372.34
- 7 1.8 BM, Halbur; 1 mi W. of; T. 84 N., R. 35 W., near the cor. of secs. 11, 12, 13 and 14; 340 ft N., 12 ft E. and 3.6 ft lower than the centerline of the crossroads; on N. end of the E. concrete headwall of the concrete box culvert; a standard tablet stamped "1 DDB 1975" 1369.680
- 8 2.7 UE 1 A, 0.9 mi N. along road from the tablet, T. 84 N., R. 35 W., near the cor. of secs. 1, 2, 11 and 12; 39 ft S., 82 ft W. and 1 ft higher than the centerline of the crossroad, on the E. side of a twin oak tree, and approx. 0.5 ft above the ground level; a R.R. spike 1449.45
- 12 3.7 UE 1 B, 2 mi N. along road from the tablet, T. 84 and 85 N., R. 35 W., near the cor. of secs. 1, 2, 35 and 36, 16 ft N., 21 ft E. and 0.4 ft lower than the centerline of the T-rd. E., on top and at the N. end of the round concrete culvert; a chiseled square 1405.15
- 14 4.8 BM, Halbur, 3 mi N. and 1 mi W. of; 2.5 mi S. and 2.5 mi E. of Arcadia, T. 85 N., R. 35 W., near the cor. secs. 25, 26, 35 and 36; 267 ft N., 31 ft W. and 11.4 ft higher than the centerline of the crossroads, 3 ft S. of the S. gate post, 1 ft E. of the E. right-of-way fence, set inside of a round concrete drain tile and 0.7 ft below ground level, a standard tablet stamped "2 DDB 1975" 1402.230
- 15 4.8 Reference mark, 127 ft NW. of the tablet; 389 ft N. and 66 ft W. of the centerline of the crossroads, at the SW. cor. of the concrete slab porch of the tin barn, a chiseled square 1406.11
- 16 5.7 UE 2 A, 0.9 mi N. along road from the tablet; T. 85 N., R. 35 W., near the cor. of secs. 23, 24, 25 and 26; 380 ft S., 31 ft E. and 0.4 ft higher than the centerline of the crossroads at the base and on the W. side of a lone cottonwood tree growing in the E. right-of-way fence, a R.R. spike 1411.71
- 20 6.8 UE 2 B, 2 mi N. along road from the tablet at the junction of U.S. Hwy. 30; T. 85 N., R. 35 W., near the cor. of secs. 13, 14, 23 and 24; 64 ft N., 58 ft W. and 0.5 ft lower than the centerline of the crossroads; on top of the iron rebar projecting from a concrete right-of-way post; and painted orange 1381.24 ✓
- 21 7.5 Reference mark, 68 ft SW. of the tablet; 68 ft S. and 35 ft W. of the centerline of the road at R.R. overpass; on top and at the S. end of the SW. wingwall; a chiseled square 1314.20
- 22 7.5 BM, Arcadia, 0.2 mi N. and 2.5 mi E. of; T. 85 N., R. 35 W., 0.25 mi S. of the cor. of secs. 11, 12, 13 and 14; 40 ft S., 29 ft E. and 3.5 ft higher than centerline of the road, at the C. & N.W. R.R. overpass, on the SE. wingwall; a standard tablet stamped "3 DDB 1975" 1311.407

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42-094-33
CARROLL QUADRANGLE
155 - IOWA

LINE 1 (Cont'd)

CARROLL QUAD. - 155

FEET

- 2 27 8.8 UE 3 A, 1.25 mi N. along road from the tablet; T. 25 N., R. 35 W., near the corner of secs. 1, 2, 11 and 12; 29 ft S., 35 ft W. and 4.4 ft lower than the centerline of the crossroads; on top and at the S. end of the round concrete culvert; a chiseled square 1383.42
- 30 10.0 UE 3 B, 2.25 mi N. along road from the tablet; T. 85 and 86 N., R. 35 W., near the cor. of secs. 1, 2, 35 and 36; 6 ft N., 29 ft W. and 2.8 ft lower than the centerline of the T-rd. E. on top and at the N. end of the round metal culvert; a punched hole 1329.98
- 32 11.0 UE 3 C, 2.25 mi N. and 1 mi E. of the tablet, T. 85 and 86 N., R. 35 and 36 W., near the cor. of secs. 1, 6, 31 and 36, 15 ft N., 230 ft E. and 2.8 ft higher than the centerline of the crossroads, on top and at the W. end of the NW. wingwall of the concrete bridge; a chiseled square 1283.76
- 34 11.6 BM, 4 mi S. along the Chicago & North Western R.R. from the station at Brada, Carroll County, at bridge 1159, and in the top of the W. end of the N. concrete abutment, a standard monel-metal rivet stamped "RV 9" 1289.459

LINE 2

D.D. Bolin, 1975; Book CV-3206

VAIL QUAD. - 156

- 37 0.0 BM, 2.4 mi S. along the Chicago & North Western R.R. from the station at Carnavon, Sac County, at a road crossing and culvert 1192.5, 39 ft N. of the centerline of the road, 22 ft E. of the centerline of the track, and about 4 ft higher than the track, a standard US&GS disk stamped "P 93 1935" and set in the top of a concrete post 1304.036

CARROLL QUAD. - 155

- 38 0.4 UE P A, 0.35 mi E. along road from the disk; T. 86 N., R. 36 W., near cor. secs. 25, 26, 35 and 36; 51 ft N., 18 ft W. and 6.6 ft lower than the centerline of the crossroads, on top and at the W. end of the round metal culvert; a chiseled square 1307.69
- 40 1.4 UE P B, 1 mi N. and 0.35 mi E. of the disk, T. 86 N., R. 36 W., near the cor. of secs. 23, 24, 25 and 26; 23 ft S., 31 ft E. and 2.3 ft lower than the centerline of the crossroads on top and at the S. end of the round concrete culvert; a chiseled square 1319.77
- 42 2.4 UE P C, 2 mi N. and 0.35 mi E. of the disk; T. 86 N., R. 36 W., near the cor. of secs. 13, 14, 23 and 24; 50 ft S., 39 ft W. and 0.9 ft lower than the centerline of the crossroads; at the NE. cor. fence post of a wire mesh fence around an L.P. Gas Storage Lot; on the top of a painted copper coated rod projecting 0.2 ft above the ground 1253.69

SAC LAKE QUAD. - 180

- 45 3.5 Reference mark, 24 ft NW. of the tablet; 23 ft N. and 25 ft E., centerline of the T-rd. W. on top and at the N. end of the round concrete culvert; a chiseled square 1228.51
- 46 3.5 BM, Carnavon; 1 mi N. and 1.3 mi E. of; 1 mi S. and 2.3 mi W. of Ulmer; T. 86 N., R. 36 W., near the cor. of secs. 11, 12, 13 and 14, 1 ft S., 32 ft E. and 1.3 ft lower than the centerline of the T-rd. W., 1 ft W. of the corner fence post, set inside of a 8-in. concrete drain tile, and 0.2 ft under the ground, a standard tablet stamped "4 DDB 1975" 1230.240

LINE 3

FEET

F.W. Krueger, 1975; Book CV-3234

GLIDDEN QUAD. - 154

2	0.0	BM, Glidden, about 0.9 mi W. of along R.R., T. 84 N., Rs. 33 and 34 W., near quarter cor. between secs. 25 and 30; 28 ft N. and 37 ft E. of centerline of N. track, 12 ft S. and 3 ft W. of a pole; in a concrete post; standard disk stamped "V 89 1935"	1225.024
3	0.6	UE V 89 A Centerline, 0.5 mi N. from disk; T. 84 N., Rs. 33 and 34 W., near cor. secs. 19, 24, 25 and 30, centerline of U.S. Hwy. 30 at N.-S. road, top of metal plug, about 0.75-in. in diameter	1212.40
5	1.6	UE V 89 B, 1.5 mi N. from disk, T. 84 N., Rs. 33 and 34 W., near cor. secs. 13, 18, 19 and 24; 30 ft N., 30 ft E. and 2.2 ft lower than crossroads, on W. side of a corner fence post; a spike	1254.04
7	2.6	UE V 89 C, 2.5 mi N. from disk; T. 84 N., Rs. 33 and 34 W., near cor. secs. 7, 12, 13 and 18; 33 ft E. and 2.1 ft lower than T-rd. W., 3 ft E. of a corner fencepost; N. end of gate; top of a 1-in. iron pipe projecting about 3-in., marked with a steel fence post; painted yellow and in the fence line	1220.60
9	3.6	BM, Glidden, 3.5 mi N. and 1 mi W. of; T. 84 N., Rs. 33 and 34 W., near cor. secs. 1, 6, 7 and 12; 36 ft S., 38 ft W. and 0.7 ft lower than crossroads; 2 ft S. and 5 ft W. of a fence corner; top of 15 ft copper weld rod; in a gravel filled tile; standard tablet stamped "1 FWK 1975"	1216.377
10	3.6	Reference mark, 34 ft S. and 38 ft W. of crossroads; in the right-of-way fence line; top of 0.75-in. reinforcement rod projecting about 4-in. marked by yellow iron fence post	1216.75
12	4.7	UE 1 A, 1 mi N. from tablet; Ts. 84 and 85 N., R. 33 and 34 W., near cor. secs. 1, 6, 31 and 36; 15 ft S., 60 ft W. and 0.2 ft higher than crossroads; center of S. concrete headwall of a culvert; a chiseled square	1204.55

CARROLL QUAD. - 155

14	5.2	UE 1 B, 1 mi N. and 0.5 mi W. from tablet; Ts. 84 and 85 N., R. 34 W., near quarter cor. between secs. 1 and 36; 45 ft S. of T-rd. N., 4 ft S. of a corner fence post; top of a 0.75-in. reinforcement rod protected by a yellow iron fence post, 1.8 ft lower than T-rd. N.	1206.85
16	6.2	UE 1 C, 2 mi N. and 0.5 mi W. from tablet; T. 85 N., R. 34 W., near quarter cor. secs. 25 and 36, 30 ft N., 42 ft E. and 3 ft lower than crossroads, 3 ft S. and 8 ft E. of a corner fence post; top of 0.75-in. reinforcement bar protected by yellow iron fence post	1183.43
18	7.3	BM, Glidden, 6.5 mi N. and 1.5 mi W. of, T. 85 N., R. 34 W., near quarter cor. between secs. 24 and 25; 15 ft N, 34 ft E. and 2.6 ft lower than T-rd. W., 4 ft N. and 2 ft W. of a power pole, top of 12 ft copper coated rod, in a 6-in. gravel filled tile, standard tablet stamped "2 FWK 1965"	1164.453
19	7.3	Reference mark, 15 ft S. and 2 ft W. of tablet; 32 ft E. of T-rd. W., 4 ft W. of E. right-of-way fence top of a 0.75-in reinforcement rod marked by a yellow iron fence post	1164.85
20	8.3	UE 2 A Centerline, 1 mi N. from tablet; T. 85 N., R. 34 W., near quarter cor. between secs. 13 and 24; centerline of crossroad, a chiseled square	1151.93

LINE 3 (Cont'd)

CARROLL QUAD. - 155

FEET

2	22	9.3	UE 2 B, 2 mi N. from tablet; T. 85 N., R. 34 W., near quarter cor. between secs. 12 and 13; 25 ft N., 41 ft W. and 5 ft lower than T-rd. W.; on E. side of a fence post; a spike	1126.45
	24	9.8	UE 2 C, 2.5 mi N. from tablet; T. 85 N., R. 34 W., near center of sec. 12, 28 ft N., 31 ft E. and 1.7 ft lower than a T-rd. W. (rd. E. offset & dead end) on W. side of N. gate post; a spike	1138.15
	26	10.2	BM, Glidden, 9.25 mi N. of; T. 85 N., R. 34 W., 0.25 mi N. of center of sec. 12, 11 ft E. and 0.7 ft higher than bridge at drain; 14 ft above drain this date; in the center of the E. concrete curb of bridge countersunk; standard tablet stamped "3 FWK 1975"	1099.043
	27	10.2	Reference mark, 39 ft S. and 21 ft W. of tablet; on S. end of W. concrete curb of bridge; chiseled square	1099.01
	29	10.4	UE 3 A, 0.25 mi N. from tablet; T. 85 N., R. 34 W., near quarter cor. between secs. 1 and 12; 60 ft N., 27 ft W. and 5.2 ft lower than X-rds. on W. end of a 24-in. iron pipe culvert; a punched hole	1118.65
	31	11.4	UE 3 B, 1.25 mi N. from tablet; Ts. 85 and 86 N., R. 34 W., near quarter cor. between secs. 1 and 36; 2 ft S. and 31 ft E., 1.9 ft lower than T-rd. W., on W. side of a fence post; a spike	1139.77
1	2	12.0	UE 3 C, 2.25 mi N. from tablet, T. 86 N., R. 34 W., near quarter cor. between secs. 25 and 36; 32 ft N., 75 ft W. and 1 ft lower than T-rd. W.; on E. end of a 24-in. iron pipe culvert under a field entrance N.; a punched hole	1132.60
	4	12.5	BM, Glidden, 11.75 mi N. and 1 mi W. of; T. 86 N.; R. 34 W. near S. center of sec. 25; 41 ft N. 9 ft W. and 0.3 ft higher than centerline of bridge, on the W. concrete curb of bridge between the middle and N. spans of a three span concrete bridge over Racoon River; countersunk; standard tablet stamped "4 FWK 1975"	1100.824
	5	12.5	Reference mark, 94 ft N. and 18 ft E. from tablet; 135 ft N. and 9 ft E. from centerline of bridge; top of NE. concrete pillar of E. rail of bridge; a previously established chiseled cross (larger one of two)	1103.76
	7	13.2	UE 4 A, 0.7 mi N. from tablet; T. 86 N., R. 34 W., near quarter cor. between secs. 21 and 25, 22 ft N., 34 ft E. and 0.3 ft lower than T-rd. E.; on N. end of a N.-S. 24-in. iron pipe culvert; a punched hole	1120.82

SAC CITY QUAD. - 180

9	14.2	UE 4 B, 1.7 mi N. from tablet; T. 86 N., R. 34 W., near quarter cor. between secs. 13 and 24; 16 ft S., 27 ft W. and 0.8 ft lower than N.-S. road, at fence E.; on S. end of N.-S. concrete culvert under entrance W., a chiseled square	1188.82
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ROCKWELL CITY QUAD. - 179

10	15.0	UE 4 C, 2.2 mi N. and 0.4 mi E. from tablet; T. 86 N., R. 34 W., about 0.2 mi W. of cor. secs. 13, 18, 19 and 24; 62 ft N. and 173 ft E. of jct. roads, E.-W. and NE.; 14 ft NW. of road at a culvert 3.3 ft higher than road at culvert; center of N. concrete rail culvert; a previously established chiseled cross in a yellow painted circle	1219.41
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