

RD-ORDER-LEVELS
ATIONAL GEODETTIC VERTICAL DATUM OF 1929

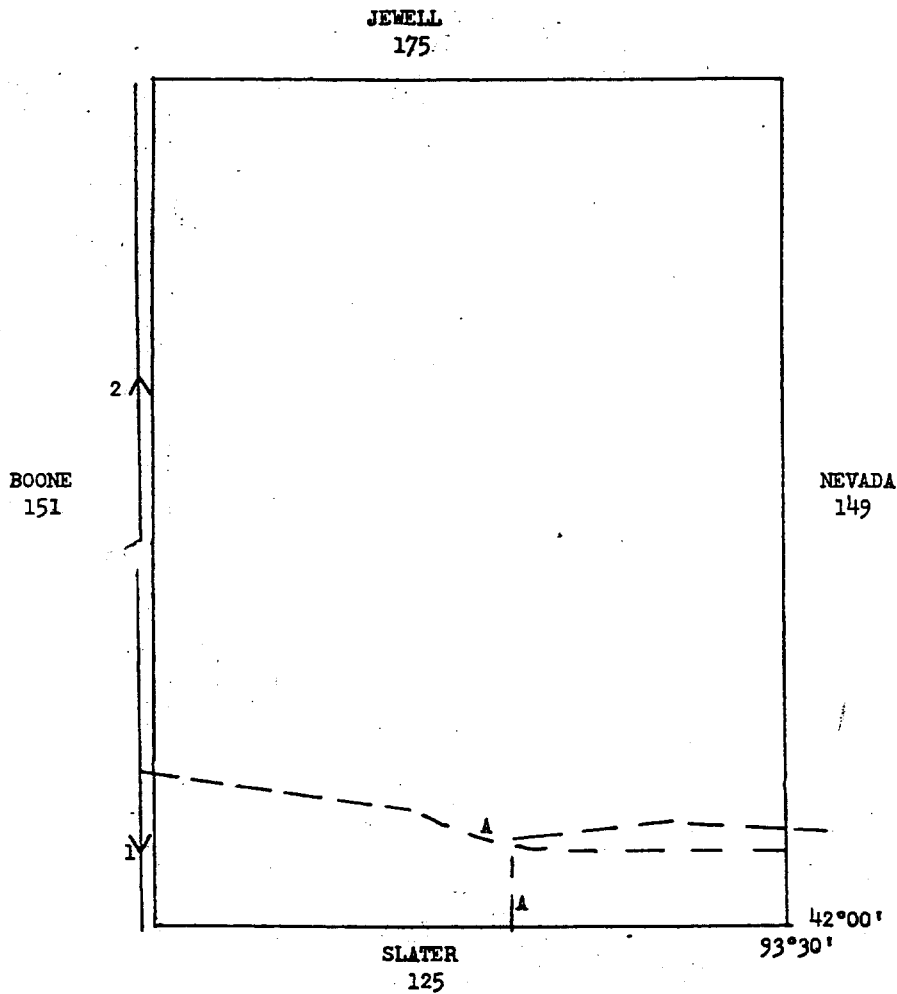
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

42-093-32
AMES QUADRANGLE
150 - IOWA
N4200-W9330/15
DIAGRAM NK 15-5
WATERLOO

Story, Boone and Hamilton Counties

Edition of: 1-6-81

PR: ADP/CB/ph



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

A. Quadrangle No. 420933

150A

LINE 1

FEET

W. K. McCurley, 1964; CV-1746

BOONE QUAD. - 151

- 0.0 Boone, 6.5 mi E. along the C. & N.W. RR. from the station at; 1.3 mi E. of Jordan; at bridgehead station 585, in the W. end of the top course of the N. headwall, and 12 ft N. of N. rail of N. track; a monel metal rivet. USCGS elev. 1066.215
- 1.0 UE, 0.9 mi S. of rivet; Tps. 83 and 84 N., R. 25 W., near cor. secs. 3, 4, 33 and 34; 19 ft S., 31 ft W. and 3.5 ft lower than crossroads; on top of steel culvert 1068.9
- 1.7 UE, 1.7 mi S. of rivet; Tps. 83 and 84 N., R. 25 W., cor. secs. 3, 4, 9 and 10; 39 ft S., 17 ft E. of and 2 ft lower than center of crossroads; on top of steel corrugated culvert 1069.2
- 2.8 UE, 2.7 mi S. of rivet; T. 83 N., R. 25 W., near cor. secs. 9, 10, 15 and 16; 21 ft S., 24 ft E. of and 3.3 ft lower than crossroads; on top of steel corrugated culvert 1092.5
- 3.4 Luther, 2.3 mi N., 3 mi E. of; T. 83 N., R. 25 W., near S. sixteenth cor. between secs. 15 and 16; 700 ft S. of private driveway E., on top of and in center of E. concrete headwall; and 0.7 ft higher than center of rd. at culvert; a standard tablet stamped "20 WMC 1964 1059" 1058.936
- .4 Reference mark, 140 ft S. of tablet; on N. end of steel corrugated culvert; under field entrance E. 1057.04

LINE 2

W. K. McCurley, 1964; CV-1736

BOONE QUAD. - 151

- 0.0 "RV 585" (Described in Line 1.) 1066.235
- 0.4 UE, 0.45 mi N. of rivet; T. 84 N., R. 25 W., near cor. secs. 27, 28, 33 and 34; 34 ft N., 17 ft E. of center of 1.3 ft lower than crossroads; on top of concrete headwall; a chiseled square 1042.47
- 1.0 UE, 0.95 mi N. of rivet; T. 84 N., R. 25 W., quarter cor. between secs. 27 and 28; in center of N.-S. rd. at T-rd. W.; ground elev. 1072.05
- 1.4 UE, 1.45 mi N. of rivet; T. 84 N., R. 25 W., cor. secs. 21, 22, 27 and 28; 32 ft N., 18 ft E. of and 3.7 ft lower than T-rd. E.; on top of concrete headwall a chiseled square 1045.64
- 2.0 UE, 1.95 mi N. of rivet; T. 84 N., R. 25 W., quarter cor. between secs. 21 and 22; in center of crossroads; ground elev. 1061.75
- 2.4 Reference mark, 310 ft SSE. of tablet; 33 ft E. of center of rd. in power pole; a lag bolt 1059.09
- 2.4 Jordan, 2 mi N. and 1 mi E. of; T. 84 N., R. 25 W., near cor. secs. 15, 16, 21 and 22; 38 ft N., 34 ft W. of and 0.8 ft lower than crossroads; 3 ft NNE. of a power pole; in top of concrete post; standard tablet stamped "ET 8 JA 1964 1064" 1064.029

LINE 2 (Cont'd)

BOONE QUAD. - 151

FEET

- 3.4 UE 8 JA A, 0.9 mi N. of tablet; T. 84 N., R. 25 W., near cor. secs. 9, 10, 15 and 16; 510 ft S., 23 ft W. of and 6.4 ft lower than crossroads; 5.3 ft lower than center of rd. at culvert; on top of concrete headwall; a chiseled square 1041.90
- 4.4 UE 8 JA B, 2 mi N. of tablet; T. 84 N., R. 25 W., cor. secs. 3, 4, 9 and 10; 44 ft S., 34 ft W. of and 0.4 ft higher than T-rd. S.; in power pole; a lag bolt 1032.49
- 5.6 Zenorsville, 0.1 mi W. thence 1.06 mi N. along winding rd., T. 84 N., R. 25 W., in NW $\frac{1}{4}$ sec. 3, at low place in rd., 23 ft SE. of center of rd. and 6.4 ft lower than center of rd. at culvert; in top of SE. wing wall of culvert; a standard tablet stamped "37 WMC 1964 979" 978.735
- 5.6 Reference mark, 68 ft NE. of tablet; on NE. concrete headwall of culvert; a chiseled square 976.25
- 5.9 UE 37 WMC A, 0.3 mi N. of tablet; in NW. sixteenth cor. secs. 3; T. 84 N., R. 25 W., 48 ft S., 32 ft E. of and 0.1 ft lower than Y-intersection; in power pole; a lag bolt 1006.15
- 6.8 UE 37 WMC B, 0.3 mi N. thence 0.9 mi W. and N. of tablet; T. 85 N., R. 25 W., near quarter cor. between secs. 33 and 34; on top of and near center of E. concrete guard rail of bridge; 1.8 ft higher than center of bridge; a chiseled square 977.59
- .2 UE 37 WMC C, 0.3 mi N. thence 1.3 mi NW. and N. of tablet; T. 85 N., R. 25 W., cor. secs. 27, 28, 33 and 34; 28 ft S., 22 ft W. of and 4 ft lower than crossroads; on top of round concrete culvert; chiseled square 1008.27
- 8.2 UE, 37 WMC D, 0.3 mi N. thence 2.3 mi W. and N. from tablet; T. 85 N., R. 25 W., cor. secs. 21, 22, 27 and 28; 33 ft N., 42 ft W. of and 2.4 ft lower than crossroad; in power pole; a lag bolt 1026.16
- 8.6 Mackey, 0.62 mi S. of; T. 85 N., R. 25 W., about 700 ft S. of quarter cor. between secs. 21 and 22; 57 ft N., 27 ft W. of and 6.6 ft lower than center of rd. at T-drive E.; in top of E. concrete headwall of culvert; standard tablet stamped "38 WMC 1964 1006" 1005.576
- 8.6 Reference mark, 315 ft N. of tablet; and 32 ft E. of center of rd., in telephone pole; a lag bolt 1011.84
- 9.2 UE, 38 WMC A, 0.6 mi N. of tablet; T. 85 N., R. 25 W., cor. secs. 15, 16, 21 and 22; in center of crossroads; a chiseled square 1007.88
- 10.2 UE 38 WMC B, 1.6 mi N. of tablet; T. 85 N., R. 25 W., near cor. secs. 9, 10, 15 and 16; 10 ft S., 84 ft E. of and 0.8 ft higher than center of rd. at T-rd. SE. thence S. on top of and in center of S. concrete curb of bridge over Squaw Creek; a chiseled square 982.53
- 11.3 UE 38 WMC C, 2.66 mi N. of tablet; T. 85 N., R. 25 W., near cor. secs. 3, 4, 9 and 10; 22 ft N., 21 ft E. of and 2.7 ft lower than crossroads; on top of steel corrugated culvert 1025.45
- 12.2 Reference mark, 265 ft S. of tablet; 34 ft W. of center of rd., in power pole; a lag bolt 1028.31

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42-093-32
AMES QUADRANGLE
150 - IOWA

LINE 2 (Cont'd)

BOONE QUAD. - 151

FEET

- 12.2 Stanhope, 5.5 mi S., 2 mi E. of; Tps. 85 and 86 N., R. 25 W., near cor. secs. 3, 4, 33 and 34;
40 ft N., 34 ft W. of and 2.5 ft lower than crossroads; 2 ft N. of power pole; in top of concrete
post; standard tablet stamped "39 WMC 1964 1028.2" (Not found 7/75) 1027.994
- 13.2 UE 39 WMC A, 1 mi N. of tablet; T. 86 N., R. 25 W., near cor. secs. 27, 28, 33 and 34; 16 ft S.,
130 ft E. of and 1.1 ft lower than crossroads; on top of concrete headwall; a chiseled square 1038.73
- 14.2 UE 39 WMC B, 2 mi N. of tablet; T. 86 N., R. 25 W., near cor. secs. 21, 22, 27 and 28; 26 ft S., 30
ft W. of and 3.4 ft lower than crossroads; on top of round concrete culvert; a chiseled square 1061.30
- 15.2 Stanhope, 2.5 mi S. and 2 mi E. of; T. 86 N., R. 25 W., near cor. secs. 15, 16, 21 and 22; 209 ft
S., 30 ft E. of and 1.1 ft higher than center of crossroads; in top of concrete post; standard
tablet stamped "40 WMC 1964 1096" 1095.308
- 15.2 Reference mark, 190 ft NNW. of tablet; in SW. cor. of crossroads; in power pole; a lag bolt 1092.16

ISOLATED BENCHMARKS

- 83 N., R. 23 W., NE. cor. of NW¼ sec. 27; 0.2 mi W. of Shipley, SW. cor. of crossroads; iron post
stamped "958" 957.5
- T. 83 N., R. 23 W., SE. cor. of sec. 4, 3.5 mi W. of Nevada, 4.5 mi E. of Ames, NW. cor. of crossroads;
iron post stamped "967" (elev. by USC&GS) (Not found 7/75) 966.294
- T. 83 N., R. 24 W., SE. cor. sec. 1, N.-S. township line between Grant and Washington townships; 1.5 mi E.
of Ames, NW. cor. of crossroads; at fence corner; iron post stamped "940" (Not found 7/75) 939.4
- Ames, SW¼ sec. 2, T. 83 N., R. 24 W., E. 5th and Kellogg Avenue N. face of bldg., iron post stamped "922
RESET 1941" 920.4
- T. 83 N., R. 24 W., near center of sec. 4, center of Iowa State College campus; 250 ft S. of flagpole;
550 ft W. of W. entrance to Agriculture Bldg.; 300 ft NW. of Stanton Memorial Chimes tower; iron post
stamped "952" (USC&GS elev.) (Not found 7/75) 950.516
- Iowa State College, 8.5 ft E. of SE. corner of Engineering Bldg., just inside of stone walk; brass plug
cemented in tile (engineering students' B.M. elev. brought N. from near Kelly) 959.6
- T. 84 N., R. 24 W., NW. cor. sec. 17; 1.5 mi W. of by 1 mi S. of Gilbert Station; SE. cor. of crossroads;
5 ft S. of fence corner; iron post stamped "965" 964.1
- T. 85 N., R. 24 W., SW. cor. sec. 29; 1.5 mi W. of by 2 mi N. of Gilbert Station; NE. cor. of crossroads;
SW. corner of schoolhouse yard; iron post stamped "1048" (Destroyed 12/71) 1047.2
- 85 N., R. 24 W., SW. cor. of sec. 26, 1.5 mi E. of by 2 mi N. of Gilbert Station; NE. cor. of crossroads;
40 ft N. of fence corner; iron post stamped "1013" (Not found 7/75) 1012.4

ISOLATED BENCHMARKS (Cont'd)

FEET

T. 85 N., R. 23 W., SE. cor. sec. 30, NW. corner of forks at rd. N.; 10 ft W. of NW. fence corner; 40 ft NW. of section corner stone; iron post stamped "973" (Not found 7/75)	971.9
T. 84 N., R. 23 W., SW. cor. sec. 3, 4 mi S. by 1 mi W. of Roland; NE. cor. of crossroads; iron post stamped "1025"	1021.1
T. 84 N., R. 23 W., NE. cor. sec. 28; SW. corner of crossroads; 7 ft S. of corner fence post; iron post stamped "986"	985.5
T. 85 N., R. 24 W., SE. cor. sec. 7, 0.5 mi S. by 4.5 mi W. of Story City; NW. cor. of crossroads; at fence corner; iron post stamped "1047" (Not found 7/75)	1045.5
T. 86 N., R. 24 W., NE. cor. sec. 30, 4 mi W. of Randall; SW. cor. of crossroads; concrete monument; standard tablet stamped "1956 RESET 1951" (Not found 7/75)	1054.582
Randall, T. 86 N., R. 24 W., near NE. cor. sec. 26; at N. edge of town, in NW. corner of schoolhouse yard; iron post stamped "1019" (Not found 7/75)	1018.0
Story City, NE. part of; near center of sec. 12, T. 85 N., R. 24 W., 1 block N. of Main Street, at SW. corner of high school bldg.; iron post stamped "1000" (Destroyed 12/68)	998.9
T. 85 N., R. 23 W., SE. cor. sec. 21, 1 mi S. by 1 mi W. of Roland, on W. side of rd. at I-rd. E.; at fence line; at foot of telephone pole; 50 ft NW. of rd. forks; 35 ft N. of E.-W. section line; iron post stamped "995" (Not found 7/75)	993.2
T. 85 N., R. 23 W., E. center of sec. 9, 1.5 mi N. by 1 mi W. of Roland, SW. cor. of crossroads; iron post stamped "1029" (Not found 7/75)	1027.4
T. 86 N., R. 23 W., SW. cor. sec. 22, 4 mi E. of Randall; NE. corner of crossroads; at fence corner; 45 ft N. and 37 ft E. of section corner; concrete masonry post with bronze tablet stamped "1093 RESET 1950" (Not found 7/75)	1090.523
T. 84 N., R. 25 W., SE. cor. sec. 25, at Co. line between Boone and Story Counties; 4.5 mi E. of Jordan; NW. corner of forks at I-rd. W.; at fence corner; iron post stamped "1016" (Not found 7/75)	1014.7