

THIRD-ORDER LEVELS
SEA LEVEL DATUM OF 1929

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

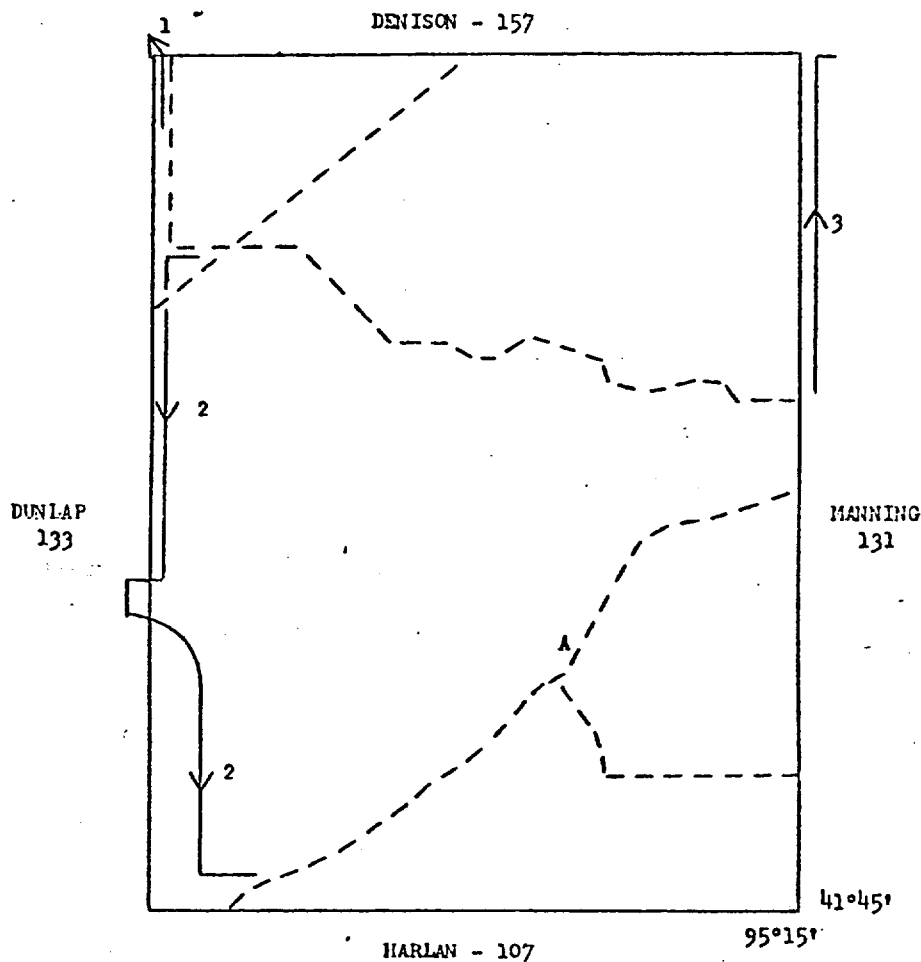
EARLING QUADRANGLE
132 - IOWA
N4145-W9515/15
DIAGRAM NK 15-7
OMAHA

Crawford and Shelby Counties

Final Adjustment of 1975
except as noted

Edison of: 9/9/75

PR: AKH/PH/eb



N.G.S. VERTICAL CONTROL DATA

A. quadrangle 410954

132 C

LINE 1

FEET

R.M. Brown, 1971; Book CV-2670

NOTE: Field elevations are published here pending additional checks.

EARLING QUAD. - 132

- | | | | | |
|---|----|-----|--|----------|
| 1 | 61 | 0.0 | Arion, about 3.0 mi N. and 2.0 mi W. of, near cor. secs. 15, 16, 21 and 22, T. 83 N., R. 40 W., 85 ft SE. of, 17 ft SW. of and 2.1 ft lower than a T-rd. N., in a concrete culvert headwall, a standard tablet stamped "D 91 1935" | 1194.315 |
| | 61 | 0.4 | Reference mark, 230 ft W. of tablet, in NE. cor. of RR. trestle, a copper nail and washer | 1196.646 |
| | | | <u>CHARTER OAK QUAD. - 158</u> | |
| | 62 | 1.2 | UE, 1.3 mi N. along RR. from tablet, in centerline of E.-W. rd. at a RR. crossing a copper nail and washer | 1238.751 |
| | 63 | 1.7 | Charter Oak, about 3.5 mi S. of and 4.0 mi E. of, in general vicinity of Kenwood, in sec. 9, T. 83 N., R. 40 W., 99 ft SE. of, 28 ft SW. of and 9.4 ft lower than rd. at private drive NE. to a white farm house; in concrete culvert, headwall, a standard disk stamped "E 91 1935" | 1243.473 |

THIS ELEV.	1243.473
PREV. ELEV.	1243.088
CLOSURE	+.385

LINE 2

R.M. Brown, 1971; Book CV-2670

EARLING QUAD. - 132

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|---|----|-----|--|----------|
| 3 | 4 | 0.0 | Dow City, about 1.2 mi N. of, in NW $\frac{1}{4}$ sec. 3, T. 82 N., R. 40 W., 27 ft E. of (normal) and 2.2 ft lower than a RR. crossing; 9.7 ft SSW. of a power pole; in concrete post, about 6-in. beneath surface, a standard disk stamped "B 91 1935" | 1170.834 |
| | 4 | 0.3 | UE, 0.3 mi S. of tablet, near $\frac{1}{4}$ cor. between secs. 3 and 4, T. 82 N., R. 40 W.; 8 ft N. of, 33 ft E. of, and 0.8 ft lower than rd. at private drive E. (also rd. fork W.) on N. end of iron pipe culvert; a painted square | 1137.72 |
| | 5 | 1.1 | UE, 1.1 mi S. of tablet, and near N. edge of Dow City, sec. 10, T. 82 N., R. 40 W., 28 ft SE. of, 58 ft NE. of and 1.8 ft lower than a RR. crossing; in W. side of a concrete battery box cover, a chiseled square | 1131.26 |
| | 6 | 1.6 | Reference mark, 27.6 ft E. of tablet, in center of E. concrete culvert headwall, a square bolt head | 1168.13 |
| | 7 | 1.7 | Dow City, at the S. edge of, in Sec. 10, T. 82 N., R. 40 W.; 13.8 ft W. of (normal) and 0.1 ft higher than centerline of rd. at a concrete box culvert, in center of W. headwall, a standard tablet, stamped "14 RB 1971" (upstream, Drain 6.0 ft lower) | 1168.690 |
| | 8 | 2.1 | UE, 0.5 mi S. of tablet, in sec. 15, T. 82 N., R. 40 W., 22 ft N. of, 25 ft W. of and 4.2 ft lower than a T-rd. W.; on N. end of a concrete tube culvert, a chiseled square | 1269.21 |
| | 10 | 3.0 | UE, 1.3 mi S. of tablet, in sec. 22, T. 82 N., R. 40 W., 14 ft S. of, 33.5 ft E. of and 1.0 ft higher than rd. at a private drive E., to a farmhouse; in E. side of a leaning power pole, a lag bolt | 1348.64 |

LINE 2 (Cont'd)

EARLING QUAD. - 132

FEET

3	11	3.9	UE, 2.3 mi S. of tablet, near the W. sixteenth cor. between secs. 22 and 27, T. 82 N., R. 40 W.; 29 ft S. of, 37 ft W. and 3.4 ft higher than a T-rd. W.; in the E. side of a corner fence post; a RR. spike	1414.91
	12	4.4	Reference mark, 25 ft SW. of a tablet, on N. end of a concrete tube culvert; a chiseled square	1348.39
	13	4.4	Dow City, about 3.0 mi S. of, near the quarter cor. between the NW $\frac{1}{4}$ and SW $\frac{1}{4}$ of sec. 27, T. 82 N., R. 40 W., 36 ft N. of, 49 ft E. of and 0.3 ft higher than crossroads; 6.2 ft E. of a power pole and 0.8 ft S. of a fence; on rod support, standard tablet stamped "15 RB 1971"	1351.487
	14	5.0	UE, 0.5 mi S. of tablet, in sec. 34, T. 82 N., R. 40 W.; 104 ft S. of, 23 ft E. of and 1.8 ft lower than centerline of rd. at a fence E.; on S. end of a concrete tube culvert; a painted square	1287.78
	16	5.9	UE, 1.5 mi S. of tablet, near W. sixteenth cor. between secs. 3 and 34, Tps. 81 and 82 N., R. 40 W., 40 ft N. of, 28 ft E. of and 1.5 ft lower than a T-rd. E., in W. side cor. fence post, a lag bolt	1277.16
	19	7.2	Reference mark, 24 ft NNE. of tablet, in center of concrete bridge curb, a chiseled square	1209.67
	20	7.2	Dow City, about 4.5 mi S. of near SE. cor. sec. 4 and NE. cor. sec. 9, T. 81 N., R. 40 W., 12.0 ft SSE. of (normal) and 0.9 ft higher than centerline of bridge in center of concrete curb, a standard tablet, stamped "16 RB 1971" (Drain 21.5 ft lower)	1209.577

DUNLAP QUAD. - 133

21	7.6	UE, 0.4 mi W. of tablet, near the quarter cor. between secs. 4 and 9, T. 81 N., R. 40 W., in centerline of T-rd. E., driven flush with pavement, a RR. spike	1316.62
23	8.5	UE, 1.3 mi S. and W. of tablet, near center of sec. 9, T. 81 N., R. 40 W., centerline bridge (Drain 15.2 ft lower)	1202.7

EARLING QUAD. - 132

24	8.9	UE, 1.7 mi generally S. of tablet, in SW $\frac{1}{4}$ sec. 10, T. 81 N., R. 40 W., 27 ft W. of and 6.0 ft lower than a rd. fork; in NW. side of power pole, a lag bolt	1221.63
25	10.1	UE, 2.9 mi generally S. of tablet, in the SE $\frac{1}{4}$ sec. 15, T. 81 N., R. 40 W.; 41 ft S. of, 30 ft W. of and 6.3 ft lower than T-rd. S., in NE. side of a cor. fence post; a lag bolt	1259.93
26	10.3	Reference mark, 108 ft NW. of tablet, in E. side of power pole, a lag bolt	1271.49
27	10.3	Earling, about 3.0 mi N. of and 3.4 ft mi W. of, near the E. sixteenth cor. between sec. 15 and 22, T. 81 N., R. 40 W.; 37 ft S. of, 51 ft E. of and 3.0 ft higher than a T-rd. N., 4.0 ft S. of and 1.5 ft E. of a power pole, 1.0 ft N. of a fence, on rod support, standard tablet stamped "17 RB 1971"	1278.762
29	11.5	UE, 1.2 mi S. of tablet, near cor. secs. 22, 23, 26 and 27, T. 81 N., R. 40 W., 29 ft S. of, 32 ft W. of and 1.4 ft lower than a T-rd. E., in E. side of power pole, a lag bolt	1408.78
30	12.6	UE, 2.2 mi S. of tablet, near cor. secs. 26, 27, 34 and 36, T. 81 N., R. 40 W., 40 ft N. of, 48 ft W. of and 8.6 ft lower than crossroads; on N. end of iron pipe culvert, a punch mark	1404.45
32	13.6	Earling, about 3.2 mi W. of, near cor. secs. 2, 3, 34 and 35, Tps. 80 and 81 N., R. 40 W., 42 ft N. of, 32 ft W. of and 0.1 ft lower than crossroads; 5.0 ft lower than crossroads; 5.0 ft SW. of a power pole; on rod support, a standard tablet stamped "18 RB 1971"	1440.716

LINE 2 (Cont'd)

EARLING QUAD. - 132

FEET

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|----|------|---|--|---------|
| 3 | 33 | 13.6 | Reference mark, 91 ft S. of tablet, in E. side of power pole, a lag bolt | 1438.54 |
| 14 | 14.5 | UE, 1.0 mi S. of tablet, near cor. secs. 2, 3, 10 and 11, T. 80 N., R. 40 W., 40 ft S. of, 26 ft W. of and 4.6 ft lower than crossroads; in N. side of power pole, a lag bolt | 1367.22 | |
| 38 | 16.0 | Earling, about 2.8 mi SW. of along the Chicago, Milwaukee, St. Paul and Pacific RR. in sec. 11, T. 80 N., R. 40 W.; 10 ft SE. of (normal) and 3.3 ft lower than the SW. end of a RR. bridge; in SE. abutment, a standard disk stamped "G 96 1935" | 1263.141 | |

LINE 3

R.M. Brown, 1971; Book CV-2686

MANNING QUAD. - 131

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|----|-----|---|--|----------|
| 1 | 3 | 0.0 | At Manilla, Crawford County, on the Chicago Milwaukee, St. Paul and Pacific RR., 67 ft NW. of the SW. cor. of the depot, 12 ft NNW. of a power pole, in concrete post flush with ground, standard tablet stamped "X 95 1935" | 1316.547 |
| 4 | 0.8 | UE, 0.8 mi N. and W. of tablet, near cor. secs. 22, 23, 26 and 27, T. 82 N., R. 38 W.; 33 ft N. of, 35 ft W. of and 0.1 ft lower than a T-rd. N., in N. side of a power pole, a lag bolt | 1376.49 | |
| 6 | 1.6 | UE, 1.8 mi N. and W. of tablet, near cor. secs. 14, 15, 22 and 23, T. 82 N., R. 38 W.; centerline of State Hwy. 141 at gravel rd. S. (offset T-rd. N.) | 1415.5 | |
| 8 | 2.8 | Reference mark, 72 ft S. of tablet, in W. side of power pole, a lag bolt | 1371.33 | |
| 9 | 2.8 | Manilla, about 2.5 mi N. of and 0.8 mi W. of, near cor. secs. 10, 11, 14 and 15, T. 82 N., R. 38 W., 41 ft N. and 31 ft E. of and 0.7 ft N. of and 1.5 ft W. of a fence cor., on rod support, standard tablet stamped "13 RB 1971" | 1375.828 | |
| 11 | 3.8 | UE, 1.0 mi N. of tablet, near cor. secs. 2, 3, 10 and 11, T. 82 N., R. 38 W., 32 ft S. of, 31 ft E. of and 0.8 ft higher than crossroads, in NW. side of power pole, a lag bolt | 1353.47 | |
| 13 | 4.9 | UE, 2.0 mi N. of tablet, near cor. secs. 2, 3, 34 and 35, Tps. 82 and 83 N., R. 38 W.; 41 ft N. of, 21 ft W. of and 3.9 ft lower than crossroads, on W. end of concrete tube culvert, a chiseled plus | 1417.04 | |
| 15 | 5.9 | Reference mark, 100 ft SW. of tablet, in NE. side of cor. fence post, a RR. spike | 1409.32 | |
| 16 | 5.9 | Manilla, about 5.2 mi N. of and 0.8 mi W. of, near cor. secs. 26, 27, 34 and 35, T. 83 N., R. 38 W., 46 ft N. of, 28 ft E. of and 2.2 ft higher than crossroads, 5.7 ft N. of a telephone pole and 1.5 ft W. of a fence, on rod support, standard tablet stamped "19 RB 1971" | 1413.067 | |
| 17 | 6.4 | UE, 0.5 mi N. of tablet, near the quarter cor. between secs. 26 and 27, T. 83 N., R. 38 W., 30 ft N. of, 28 ft W. of and 1.6 ft higher than T-rd. W., in E. side of telephone pole, a lag bolt | 1441.57 | |
| 18 | 6.9 | UE, 1.0 mi N. of tablet, near cor. secs. 22, 23, 26 and 27, T. 83 N., R. 38 W., 29 ft S. of, 29 ft W. of and 2.1 ft higher than a T-rd. E. in N. side of power pole, a lag bolt | 1494.57 | |

LINE 3 (Cont'd)

5
EARLING QUADRANGLE
132 - IOWA

1

MANNING QUAD. - 131

FEET

- 20 7.4 UE, 2.0 mi N. of tablet, near cor. secs. 14, 15, 22 and 23, T. 83 N., R. 38 W.,
31 ft N. of, 30 ft W. of and 2.6 ft higher than crossroads, in E. side of power
pole, a lag bolt

1382.80

VAIL QUAD. - 156

- 22 8.9 Reference mark, 2.40 ft SW. of tablet, in W. side of power pole, a lag bolt
- 23 8.9 Denison, about 1.0 mi S. of and 5.0 mi E. of, near cor. secs. 10, 11, 14 and
15, T. 83 N., R. 38 W., 9 ft S. of 34 ft E. of and 1.1 ft lower than a T-rd.
W.; 6.7 ft S. of and 1.0 ft W. of a cor. fence post; on rod support, standard
tablet stamped "20 RB 1971"

1411.49

1411.690