

THIRD-ORDER LEVELS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

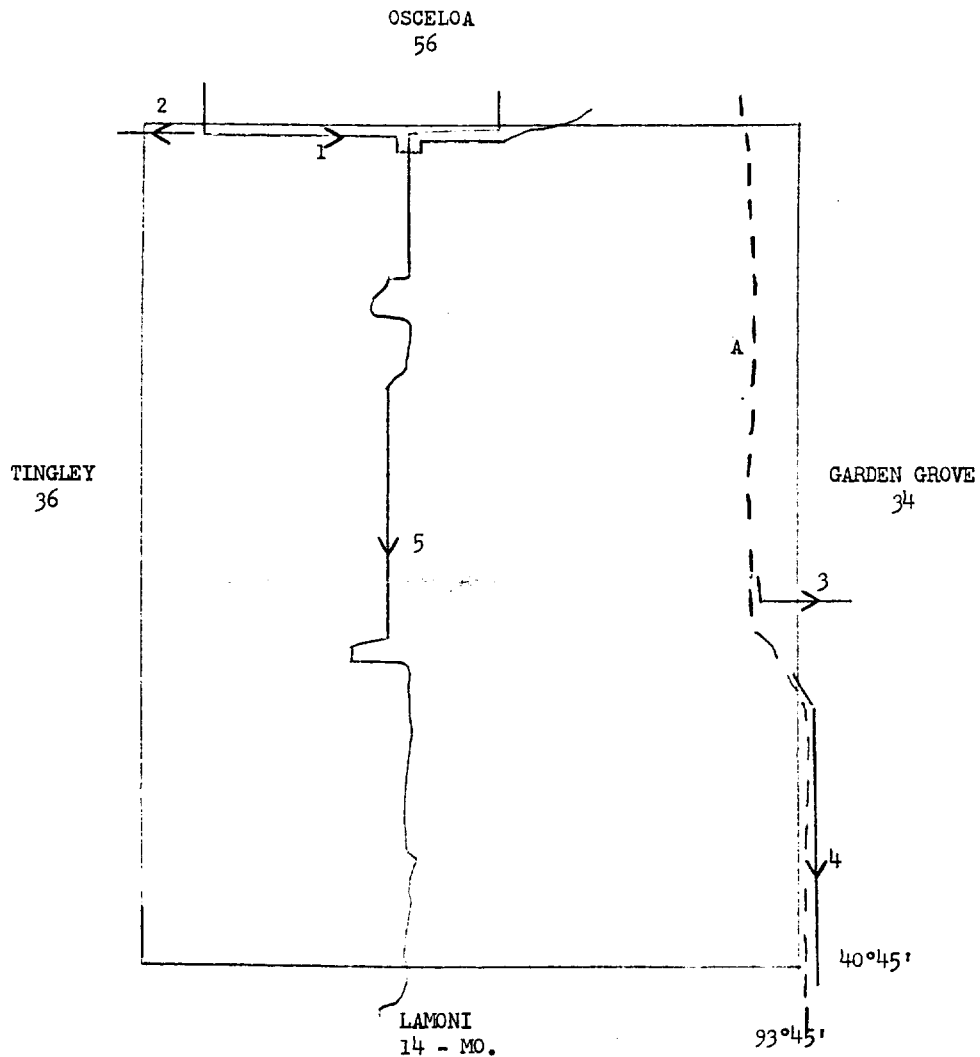
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

40-093-44
GRAND RIVER QUADRANGLE
35 - IOWA
N4045-W9345/15
DIAGRAM NK 15-11
CENTERVILLE

Clark and Decatur Counties

Edition of: 5-7-79

PR: ADP/cb



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

A. Quadrangle No. 400934

LINE 1

FEET

R.D. Searcy, 1950; Book CV-352

OSCEOLA QUAD. - 56

1.3 Murray, 1 mi S. and 0.5 mi W. from; at cor. secs. 15, 16, 21 and 22; T. 72 N., R. 27 W., 197 ft N. and 29 ft E. from crossroads, on U.S. Hwy. 34, 30 ft S. of fence corner, 2 ft W. of fence, in concrete post; standard tablet stamped "TT 25 MT 1950" 1220.629

1.3 Reference mark, 192 ft S. of tablet, 48 ft E. of crossroads, 16 ft N. of U.S. Hwy. 34, on N. headwall of culvert under hwy. chiseled square 1218.89

GRAND RIVER QUAD. - 35

4.3 Murray, 3 mi S. and 0.5 mi W. from, cor. secs. 27, 28, 33 and 34, T. 72 N., R. 27 W., 202 ft N. and 36 ft W. of crossroads, 16 ft N. of telephone pole; in concrete post; standard tablet stamped "TT 24 MT 1950" (Not found 9-77, FWK) 1193.941

4.3 Reference mark, 100 ft S. of tablet; top of iron rod projecting 6-in. above ground 1191.47

6.2 Murray, 3 mi S. and 1.5 mi E. from, cor. secs. 25, 26, 35 and 36, T. 72 N., R. 27 W., 593 ft W. of T-rd. N.; 25 ft N. of road, 32 ft W. of leaning telephone pole at crest of hill, in concrete post; standard tablet stamped "TT 23 MT 1950" (Not found 8-78, AJK) 1140.000

6.2 Reference mark, 68 ft E. of tablet; 25 ft N. of road, on top of iron rod projecting 6-in. above ground 1132.31

8.1 BM, Osceola, 2 mi S. and 6 mi W. from, T. 72 N., R. 26 W., near cor. secs. 29, 30, 31 and 32, 43.5 ft N., 129 ft E. and 1.4 ft lower than road at drive N.; 4 ft N., 1 ft W. of fence corner, 4 ft N., 2 ft W. of a metal witness sign, a standard tablet on copper-weld rod, protected by a 5-in. drain tile, set ground level, and stamped "TT 22 MT 1950 RESET 1978"
NOTE: the old mark was destroyed and the cap removed. New mark is 46.8 ft due E. of original mark... 1178.455

8.1 Reference mark, 189 ft E. of tablet; 18 ft N. of road, on top of iron rod projecting 6-in. above ground 1174.55

10.0 Osceola, 2 mi S. and 4 mi W. from, near cor. secs. 27, 28, 33 and 34; T. 72 N., R. 26 W., 193 ft W. of section line fence and 36 ft N. of road, 50 ft E. of telephone pole; in concrete post; standard tablet stamped "TT 21 MT 1950" (Not found 8-78, AJK) 1169.574

10.1 Reference mark, 186 ft E. of tablet; 40 ft N. of road, 8 ft W. of telephone pole; on top of an iron rod projecting 6-in. above ground 1166.85

OSCEOLA QUAD. - 56

11.5 UE 21 C, 0.8 mi E. thence 1.5 mi N. and E. from tablet; center of wooden bridge over White Brest Creek, 12.5 ft above water level at this date, 7-17-50 1063.7

12.5 Osceola, 1 mi S. and 3 mi W. from, at quarter cor. secs. 23, and 26, T. 72 N., R. 26 W., 355 ft N. of crossroads, 38 ft E. of road, 4 ft N. of telephone pole; in concrete post; standard tablet stamped "TT 20 MT 1950" 1123.886

12.4 Reference mark, 362 ft SW. of tablet; on N. end of round concrete culvert; chiseled square 1108.56

LINE 2

FEET

R.D. Searcy, 1950; Book CV-352

GRAND RIVER QUAD. - 35

- 2.0 Murray, 3 mi S. and 2.5 mi W. from, Thayer, 2 mi S. and 3 mi E. from; near cor. secs. 29, 30, 31 and 32; T. 72 N., R. 27 W., 27 ft S. and 200 ft E. of T-rd. S.; 27 ft S. center of road; about 700 ft NE. of a schoolhouse, in concrete post; standard tablet stamped "11 RDS 1950" (Destroyed 9-77, F.W.K.) 1181.380
- 2.0 Reference mark, 100 ft W. of tablet; 27 ft S. of road, on top of iron rod projecting 6-in. above ground 1177.41

TINGLEY QUAD. - 36

- 2.6 UE 11 C, about 0.7 mi W. of tablet; center of wooden bridge over drain, 11 ft higher than bottom of drain 1080.2
- 3.3 UE 11 D, about 1.3 mi W. of tablet; center of wooden bridge over Seven Mile Creek, 9.5 ft above water level 7-28-50 1044.5
- 3.9 Thayer, 2 mi S. and 1 mi E. from, near cor. secs. 25, 26, 35 and 36; T. 72 N., R. 28 W., 28 ft N. of road, 177 ft W. of T-rd. S. and about 670 ft W. of T-rd. N., at summit of high hill, 17 ft E. of wire gate and field road N.; in concrete post; standard tablet stamped "12 RDS 1950" 1165.330

LINE 3

R.L. Fuerst, 1963; Book CV-1594

GRAND RIVER QUAD. - 35

- 0.0 Van Wort, 1.5 mi E., 0.5 mi S. of, near quarter cor. secs. 17 and 18; T. 70 N., R. 25 W., 610 ft N. of hwy. 69 at E.-W. fence, in center of E. headwall of a concrete culvert; a standard USC&GS disk stamped "L 115 1935" 1150.582
- 0.6 UE 115 A, T. 70 N., R. 25 W., near cor. secs. 17, 18, 19 and 20, 169 ft N., 15 ft E. and level with crossroads; on E. headwall of concrete culvert; chiseled square near power pole 1147.9

GARDEN GROVE QUAD. - 34

- 1.8 UE 115 B, T. 70 N., R. 25 W., near W. sixteenth cor. between secs. 16 and 21, 12 ft N. and 9.5 ft W. of center of small wooden bridge on top of bridge curb; head of 5/8 in. bolt; chiseled cross 1089.19
- 2.6 Weldon, 3 mi S. and 1 mi E. of; T. 70 N., R. 25 W., near cor. secs. 15, 16, 21 and 22; 36 ft S., 128 ft W. and _____ ft higher than crossroads; 1.5 ft N. of S. right-of-way fence; in concrete post; standard tablet stamped "23 RLF 1963 1104" 1104.648

LINE 4

R.L. Fuerst, 1963; Book CV-1594

GARDEN GROVE QUAD. - 34

- 0.0 Leon, about 1.2 mi N. along U.S. Hwy. 69 from intersection of State Hwy. 2 at; T. 69 N., R. 25 W., near S. sixteenth cor. sec. 20 and 21, in top of E. concrete headwall of Hwy. culvert ft 1136.740
E. of center of Hwy. and flush with ground; a standard USC&GS disk stamped "T 115 1935"
- 0.7 UE 115 A, T. 69 N., R. 25 W., near cor. secs. 16, 17, 20 and 21, 360 ft S. and 16 ft W. of T-rd. E.; on top of center of W. concrete headwall to concrete culvert; chiseled square; near telephone pole 1133.38
- 1.8 Leon, 2.25 mi N. of; T. 69 N., R. 25 W., near cor. secs. 8, 9, 16 and 17; 45 ft N., 42 ft E. of T-rd. E.; in SW. cor. of yard of two story farm house, in concrete post; USC&GS standard disk and State Survey tablet stamped "52-27" (Elev. by USGS) 1143.594

<u>LINE 4 (Cont'd)</u>	<u>GARDEN GROVE QUAD. - 34</u>	<u>FEET</u>
3.0 Leon, 3.5 mi N. of; T. 69 N., R. 25 W., near S. sixteenth cor. between secs. 4 and 5; 176 ft S.; 33 ft E. and 1 ft higher than T-rd. W.; 30 ft N. of power pole "USBM" in concrete post; a standard tablet stamped "1 RLF 1963 1129"		1129.464
3.1 Reference mark, about 320 ft N. of tablet in top of center of E. concrete headwall to concrete box culvert; 21 ft E. of center of Hwy. 69 head of bolt		1127.32
4.0 UE 1 A, T. 69 and 70 N., R. 25 W., about 1000 ft N. of cor. secs. 4, 5, 32 and 33; 30 ft E. of Hwy. 69; on top of N. end of E. headwall of concrete box culvert; chiseled square, near power pole		1078.73
4.8 UE 1 B, T. 70 N., R. 25 W., near cor. secs. 28, 29, 32 and 33; near center of long curve in Hwy. 69; 56 ft NE. of center of Hwy.; on top of NE. headwall in concrete box culvert in painted square; top of steel rod; near power pole	<u>GRAND RIVER QUAD. - 35</u>	1137.63
5.4 Leon, 6.5 mi N. along U.S. Hwy. 69 from library, near center of sec. 29, T. 70 N., R. 25 W., at N. end of a long curve, 600 ft S. of an E.-W. fence, in center of E. headwall of a concrete culvert, a standard disk stamped "J 115 1935"		1151.671

LINE 5

<u>R.R. Barrett, 1978; Book CV-3436</u>	<u>OSCEOLA QUAD. - 56</u>	
9 6 1.4 UE F 110 B, about 0.75 mi S. and 0.75 mi W. of tablet; near cor. secs. 21, 22, 27 and 28, 7 ft S., 19 ft W. of extended centerline of T-rd. N., on W. end of metal culvert; a punched hole		1102.41
9 2.4 UE F 110 C, about 0.75 mi S. and 1.75 mi W. of tablet, near cor. secs. 20, 21, 28 and 29, 22 ft S., ft W. and 1.8 ft lower than T-rd. E. on W. end of metal culvert; a punched hole	<u>GRAND RIVER QUAD. - 35</u>	1160.06
12 3.4 UE F 110 D, about 1.75 mi S. and 1.75 mi W. of tablet; 22 ft S., 37 ft W. and 3.7 ft lower than crossroads, on S. end of concrete culvert; chiseled square		1182.93
15 4.4 BM, Osceola, 2 mi S. and 6 mi W. from, near cor. secs. 29, 30, 31 and 32, T. 72 N., R. 26 W., 43.5 ft N., 129 ft E. and 1.4 ft lower than road at drive N., 4 ft N., 1 ft W. of fence corner, 4 ft N. and 2 ft W. of a metal witness sign, a standard tablet, on 10 ft copperweld rod, protected by a 6-in. drain tile, ground level and stamped "TT 22 MT 1950 RESET 1978" NOTE: Mark is 46.8 ft due E. of original mark...		1175.110
19 5.2 UE 22 MT A, 0.8 mi W. of tablet, 23 ft N., 26 ft W. and 4.3 ft lower than T-rd. S., on E. end of metal culvert under private drive N.; punched hole		1176.784
22 6.2 UE 22 MT B, 0.8 mi W., 1 mi S. of tablet; 42 ft N., 35 ft E. and 3.5 ft lower than T-rd. E., on N. end of metal culvert; punched hole		1152.68
25 7.0 Reference mark, 14 ft S., 26 ft E. and 2.3 ft lower than T-rd. W., on S. end of metal culvert, a punched hole		1169.92
26 7.0 BM, Osceola, about 4 mi S. and 7 mi W. from, near S. sixteenth cor. between secs. 1 and 6, T. 71 N., R. 26 W., 19 ft N., 42 ft E. and 0.1 ft higher than T-rd. W.; 1 ft S. and 1 ft W. of a fence corner; 1.4 ft N. of a power pole and witness sign, a standard tablet on copperweld rod, protected by a 6-in. drain tile, ground level, stamped "22 RRB 1978"		1172.325

LINE 5 (Cont'd)

GRAND RIVER QUAD. - 35

FEET

9 30	8.2	UE 22 A, about 1.25 mi S. of tablet; 31 ft N., 26 ft W. and 4.9 ft lower than T-rd. N. on W. end of metal culvert; a punched hole	1155.11
33	8.9	UE 22 B, 1.25 mi S. and 0.6 mi W. from tablet; 68 ft S., 62 ft E. and 0.3 ft lower than T-rd. S., 26.5 ft SW. of a fence corner, 1 ft NW. of fence and witness tag, inside a 5-in. drain tile, the top of a copperweld rod	1085.35
36	9.9	UE 22 C, 2.25 mi S. and 1 mi W. from tablet; 68 ft N. (normal) 24 ft E. and 3.7 ft lower than T-rd. N., on E. end of metal culvert; punched hole	1075.80
40	10.7	Reference mark, 18 ft N., 32 ft E. and 0.6 ft higher than T-rd. S. (extended) on N. end of metal culvert; punched hole	1119.12
41	10.7	BM, Osceola, 6 mi S. and 7 mi W. from; T. 71 N., R. 26 and 27 W., near cor. secs. 13, 18, 19 and 24, 44 ft N., 20 ft W. and 0.4 ft higher than T-rd. S. (extended) 21 ft N. of a fence corner; 1 ft E. of a fence and witness sign, standard tablet, on 10 ft of copper weld rod, protected by a 5-in. drain tile, ground level, stamped "23 RRB 1978"	1118.948
45	12.0	UE 23 A, 1 mi S., 0.2 mi W. from tablet, 54 ft S., 53 ft E. and 1.8 ft lower than T-rd. S.; on S. end of a metal culvert under a field entrance, punched hole	1165.48
48	13.0	UE 23 B, 2 mi S., and 0.2 mi W. from tablet, 209 ft S., 27 ft W. and 15.5 ft lower than crossroads, on W. end of a large metal culvert; punched hole	1064.99
50	13.6	Reference mark, 68.5 ft S., 16 ft W. and 0.7 ft higher than centerline of bridge, near the center of the concrete wingwall, chiseled square	1016.25
51	13.6	BM, Osceola, about 8.75 mi S. and 7.25 mi W. from; 5.75 mi N. and 2.75 mi E. of Grand River, T. 71 N., R. 27 W., SE $\frac{1}{4}$ sec. 36, at bridge over East Long Creek, 69 ft N., 15 ft W. and 0.8 ft higher than centerline bridge, 2 ft S. of witness sign, in center concrete wingwall, standard tablet, stamped "24 RRB 1978"	1016.290
53	14.3	Road at drive	1126.1
57	15.3	UE. 24 A, 1.7 mi S. of tablet; 46 ft N., 28 ft W. and 1.1 ft lower than T-rd. W. on S. end of metal culvert; punched hole	1129.82
59	15.5	UE 24 B, 1.9 mi S. of tablet; 43 ft N., 22 ft E., and 3.3 ft lower than T-rd. E., on E. end of metal culvert; punched hole	1119.70
61	16.3	Reference mark, 25 ft S., 28 ft E. of T-rd. W. (extended) 3 ft S., 2 ft W. of S. corner post at field entrance E. top of a copperweld rod, in a 5-in. drain tile	1051.45
62	16.3	BM, Grand River, 3.25 mi N. and 2.75 mi E. from, T. 70 N., R. 27 W., NE $\frac{1}{4}$ sec. 13, 52 ft S., 38 ft W. and 5.2 ft lower than road fork, (23 ft S., 38 ft W. of the T-rd. extended) 1 ft N., 2 ft W. of fence corner and witness sign, standard tablet on copperweld rod, protected by a 5-in. clay tile, stamped "25 RRB 1978"	1052.525
66	17.6	UE 25 A, 1.3 mi S. of tablet, at a point where road curves from N. to W., 32 ft S., 39 ft E. and 3 ft lower than road at drive E. (near center of curve) on S. end of metal culvert; punched hole	1017.57
69	18.6	UE 25 B, 1.3 mi S., 1 mi W. of tablet; 37 ft N., 22 ft E. and 0.8 ft lower than T-rd. S., 1.5 ft S., 3 ft E. of a large fence post; 5 ft N., 6 ft W. of a power pole, top of copperweld rod in a 5-in. drain tile	1139.58

<u>LINE 5 (Cont'd)</u>		<u>GRAND RIVER QUAD. - 35</u>	<u>FEET</u>
9	71 19.1	Reference mark, 22 ft S., 5 ft W. of T-rd.N. on S. end of metal culvert; punched hole	1121.99
	72 19.1	BM, Grand River, 1.5 mi N. and 1.75 mi E. from; T. 70 N., R. 27 W., near E. sixteenth cor. between secs. 23 and 26, 42 ft S., 85 ft E. and 0.6 ft lower than T-rd. N.; 22 ft N., 2 ft E. of SW. cor. of metal building, 1 ft E. of power pole and witness sign standard tablet, set on copperweld rod, protected by a 5-in. clay tile, stamped "26 RRB 1978"	1124.560
	75 20.3	UE 26 A, 1.2 mi E. of tablet; 54 ft S., 19 ft E. and 2.4 mi lower than T-rd. W. on E. end of metal culvert, punched hole	1090.83
	79 21.6	UE 26 B, 1.2 mi E., 1.2 mi S. of tablet, 42 ft S., 33 ft W. and 4 ft lower than cross-road, on W. end of metal culvert; punched hole	981.41
<u>LAMONIA QUAD. - 333 MO.</u>			
10	3 22.6	Reference mark, 6 ft N., 17 ft E. (normal of N. end of concrete bridge) center of NE. wingwall, chiseled square	959.66
	4 22.6	BM, Grand River, about 0.75 mi S. and 2.75 mi E. from, in NE $\frac{1}{4}$ sec. 1, T. 69 N., R. 27 W., at bridge over Thompson River, 2 ft S., 12 ft W. (normal) of the N. end of bridge, on N. end of the W. concrete curb; standard tablet stamped "27 RRB 1978"	960.078