

OFFICE COPY HOLD
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THIRD-ORDER LEVELS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

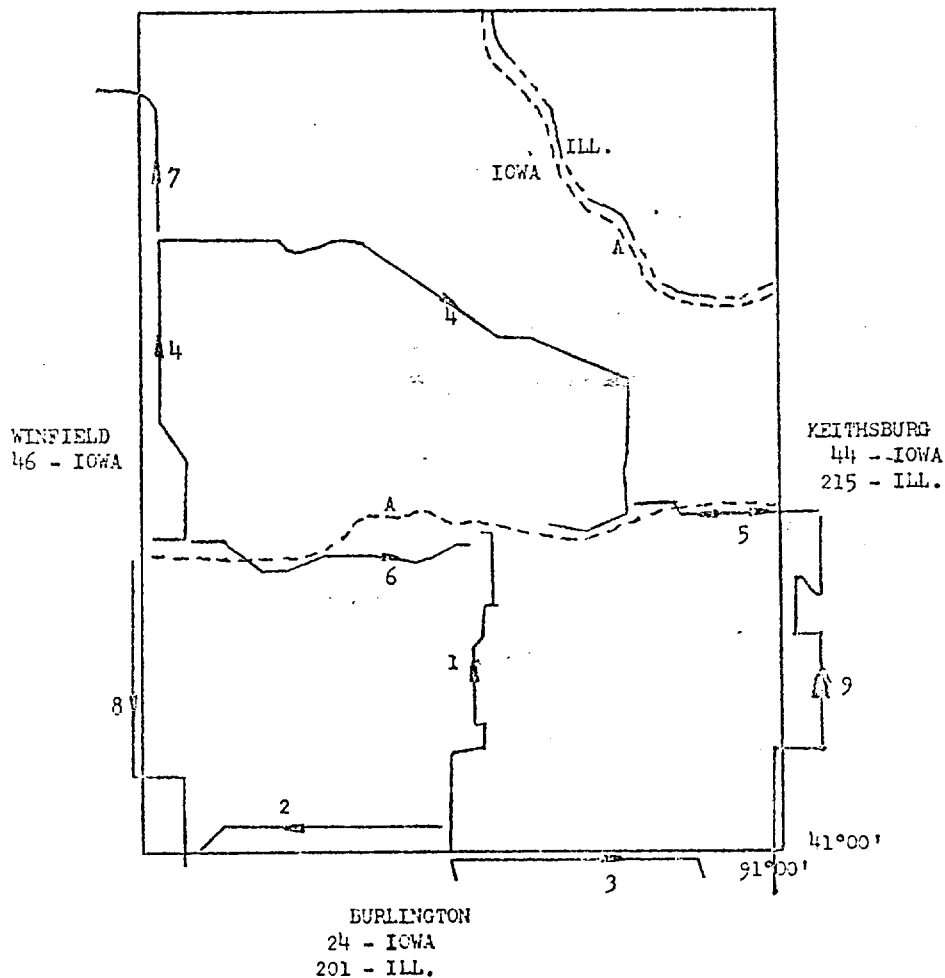
Mercer County, Illinois
Louisa and Des Moines County, Iowa

Edition of: 9/1/87

PR: WKM

-41-091-22
WAPELLO QUADRANGLE
216 - ILLINOIS
45 - IOWA
M4100-W9100/15
DIAGRAM NK 15-9
DAVENPORT

MUSCATINE
67 - IOWA
231 - ILL.



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

Quadrangle No. 410912

45 D

LINE 1

FEET

R. Moran, 1963; Book CV-1578

BURLINGTON QUAD. - 24

- 19.8 Burlington, 15.8 mi N.-E. of junction of Hwy. 61 and Hwy. 34 along Hwy. 61, Sunnyside and Irish Ridge; 8.1 mi N. from crossroads; in Latty; along gravel road; 0.5 mi S. of Kossuth from S. junction of Co. Rd. "X" and gravel rd.; near N $\frac{1}{4}$ cor. sec. 31, T. 72 N., R. 2 W., at T-junction, 33 ft N. and 30 ft E. of intersection; 3 ft N. from telephone pole, 2 ft W. from fence corner; in concrete post projecting 6-in. standard tablet stamped "20 R&M 1963" 767.154

WAPELLO QUAD. - 45

- 20.5 Kossuth, 0.3 mi N. along Co. "X" from S. junction of "X" and gravel rd.; at Y-junction, 39 ft E. from center of intersection; 39 ft SW. from telephone pole; in headwall of concrete culvert; chiseled square 710.74
- 21.4 UE; Kossuth, 1.2 mi N. from S. junction of Co. "X" and gravel rd. along "X" and gravel rd., 12 ft S. and 25 ft W. of intersection of field rd. and rd.; 8 ft E. from fence; a R.R. spike in telephone pole 742.83
- 22.2 UE; Kossuth, 1.9 mi N.-E. from S. junction of Co. "X" and gravel road along "X" and gravel road; 33 ft N. and 63 ft W. from intersection of drive and road; at end of concrete sidewalk leading to house; chiseled square 741.25
- 22.8 Kossuth, 2.5 mi N.-E. from junction of Co. "X" and gravel road along "X" and gravel road, 11.1 mi N. from crossroads in Latty along gravel road, 0.12 mi E. of W $\frac{1}{4}$ cor. secs. 17, T. 72 N., R. 2 W.; at curve in gravel road, 69 ft NE. from center of road, 45 ft W. from fence corner; 27 ft S. from fence line; 5 ft N. of telephone pole; in concrete post projecting 6-in.; standard tablet stamped "21 R&M 1963" 736.824
- 22.8 Reference mark, 261 ft W. of tablet, 24 ft S. of center of road, 18 ft N. of fence; in head-wall of concrete culvert; chiseled square 731.54
- 23.4 UE, Kossuth, 3.2 mi N.-E. from S. junction of Co. "X" and gravel road along "X" and gravel road; at T-rd. junction, 3 ft S. and 30 ft W. of intersection; at fence corner; a rail spike in telephone pole 737.44
- 24.4 UE, Kossuth, 4.2 mi N.-E. from S. junction of Co. "X" and gravel road along "X" and gravel road; at crossroads; 36 ft N. and 33 ft E. of intersection; at fence corner; rail spike in telephone pole 719.98
- 25.2 UE, Kossuth, 5 mi N.-E. from junction of Co. "X" and gravel road; along "X" and gravel road; 24 ft E. of center of road; 15 ft W. of fence; in round concrete culvert; chiseled square 723.52
- 25.8 Kossuth, 5.6 mi N.-E. from S. junction of Co. "X" and gravel road along "X" and gravel road; 14.2 mi N. from crossroads; in Latty along gravel road; near center of sec. 32, T. 73 N., R. 2 W., 0.2 mi N. from T-junction; 39 ft E. of center of road; 5 ft S. of fence corner; 2 ft W. of fence; in concrete post projecting 6-in. standard tablet stamped "22 R&M 1963" 703.044
- 25.9 Reference mark, 133 ft N. of tablet; 15 ft S. and 21 ft E. of intersection of road and farm road, 9 ft W. of fence; 6 ft S. of S. gate corner; in round concrete culvert; chiseled square 705.35
- 26.8 UE, Kossuth, 6.6 mi N.-E. from S. junction of Co. "X" and gravel road along "X" and gravel road; 0.2 mi S. of T-junction of gravel road and Co. "X", 24 ft W. of center of road, 8 ft E. of fence; on S. end of road concrete culvert; under field road; chiseled square 624.23
- 27.3 UE, junction, 0.3 mi W. of junction of Co. "K" and gravel road along "K" SE. cor. of concrete and steel bridge; 12 ft S. of center of road; in concrete curb; chiseled square 571.00

LINE 1 (Cont'd)

WAPELLO QUAD. - 45

FEET

- 28.0 UE, junction, 1 mi W. of junction of Co. "K" and gravel road along "K", 54 ft N. and 21 ft E. of intersection of driveway and "K"; large nail in telephone pole 650.30
- 29.1 UE, junction, 2.1 mi W. of junction of Co. "K" and gravel road along "K", at crossroads of "K" and gravel road, 60 ft S. and 21 ft W. from intersection; in NE. cor. of concrete walk; to church; chiseled cross 694.12
- 29.9 Newport, 2.1 mi E. along the Minneapolis and St. Louis R.R. from the station at; 100 ft W. of bridge, 90.2, 45 ft S. of the center of the track, 28 ft E. of center of road, 13 ft E. of a fence corner, 2 ft N. of the right-of-way fence and 2 ft lower than the track, a USC&GS standard disk stamped "N 126 1935" and set in top of a concrete post 637.138

LINE 2

R. Moran, 1963, Book CV-1578

BURLINGTON QUAD. - 24

767.154

- 0.0 "20 RMM 1963" (Described in Line 1)
- WAPELLO QUAD. - 45
- 0.5 UE, Mediapolis, 2 mi E. of junction of Hwy. 61 and Co. "X" along "X" and Y-junction, 22 ft N. and 14 ft W. of intersection of drive to park and road "X" in round concrete culvert; chiseled square; culvert reported moved DRL 7-64 (Elev. lost)
- 1.1 UE, Mediapolis, 1.4 mi E. junction of Hwy. 61 and Co. "X" along "X", 20 ft S. of center of road in headwall of concrete culvert; chiseled square 760.03
- 1.6 UE, Mediapolis, 0.9 mi E. of junction of Hwy. 61 and Co. "X" along "X" at junction of road and driveway; 30 ft S. and 16 ft W. of intersection; in round concrete culvert; chiseled square; culvert may have been moved. (Elev. uncertain DRL 7-64) 766.95
- 2.0 UE, Mediapolis, 0.5 mi E. of junction of U.S. 61 and Co. "X", along "X" at cross streets; 27 ft S. and 33 ft W. of intersection; in concrete sidewalk; above drain pipe; chiseled square 767.04
- 2.5 UE, Mediapolis, at crossroads on U.S. 61 and Co. "X", 40 ft S. and 72 ft W. of intersection, 40 ft W. of telephone pole, in W. end of round concrete culvert; under drive; chiseled square 771.38
- 3.3 Mediapolis, 0.7 mi W. of junction of Hwy. 61 and Co. "X", along "X", 2.9 mi E. of crossroads of Co. "X" and Co. "T" along "X", 0.25 mi W. of E $\frac{1}{4}$ cor. sec. 27, T. 72 N., R. 3 W., at junction of road and farm road, 54 ft S. and 12 ft E. of intersection; 5 ft SE. of fence corner; 4 ft E. of fence; in concrete post; projects 6-in.; standard tablet stamped "28 RMM 1963" 776.273
- 3.3 Reference mark, 30 ft W. of tablet; at junction of field road and road "X"; 42 ft S. and 16 ft W. of intersection; 8 ft N. of fence; on round concrete culvert; chiseled square 775.32
- 4.0 UE, Mediapolis, 1.5 mi W. of junction of U.S. 61 and Co. "X" along road "X" in crossroads; 40 ft S. and 24 ft E. of intersection; 28 ft NW. of angled fence; in round concrete culvert; chiseled square 771.08
- 4.5 UE, Mediapolis, 2 mi W. of junction of U.S. 61 and "X" along road "X" 39 ft N. of center of "X", 24 ft SW. of SW. cor. of red barn; in round concrete culvert; chiseled square along "X" 766.41
- 5.1 UE, Mediapolis, 2.6 mi W. of junction of Hwy. 61 and Co. "X" at junction of farm road and "X", 39 ft S. and 18 ft E. of intersection; 11 ft N. of fence; in concrete (round) culvert; chiseled square 764.21

LINE 2 (Cont'd)

WAPELLO QUAD. - 45

FEET

- 5.6 UE, Mediapolis, 3.1 mi W. of junction of Hwy. 61 and Co. "X" on concrete bridge; 12 ft S. from center of "X" on SW. concrete curb; chiseled square 734.02
- 6.2 Mediapolis, 3.6 mi W. of junction of U.S. 61 and Co. "X" along road at crossroads of "X" and Co. "T", near SW. cor. sec. 29, T. 72 N., R. 3 W., 63 ft N. and 51 ft E. of intersection; 25 ft NE. of telephone pole, 20 ft W. of fence around cemetery; in concrete post projecting 6-in.; standard tablet stamped "29 RWM 1963" 754.597
- 6.2 Reference mark, 100 ft S. of tablet at crossroads, 40 ft S. and 51 ft E. of intersection, 24 ft N. of fence; in round concrete culvert; chiseled square 748.53

BURLINGTON QUAD. - 24

- 7.2 UE, junction, 1 mi S. of junction of Co. "X" and "T" along "T"; at T-junction 18 ft N. and 24 ft W. of intersection; 4 ft S. and 12 ft E. of fence corner; in round concrete culvert; chiseled square 766.32
- 7.6 UE; junction, 1.5 mi S. of junction of "X" and "T" along "T", at T-junction, 27 ft N. and 37 ft W. of intersection; 9 ft E. of fence; a rail spike in telephone pole 762.06

LINE 3

R. Moran, 1963; Book CV-1578

BURLINGTON QUAD. - 24

- 0.0 "20 RWM 1963" (Described in Line 1) 767.154
- 0.6 UE; Kossuth, 1.05 mi S.-E. of S. junction of Co. "X" and gravel road along gravel road; at T-junction of field road and road; 30 ft N. and 27 ft E. of intersection, 42 ft E. of fence corner; rail spike in telephone pole 758.40
- 1.0 UE, Kossuth, 1.45 mi S.-E. of S. junction of Co. "X" and gravel road along gravel road; at crossroads, 27 ft N. and 30 ft W. of intersection, 6 ft E. of field corner; on corrugated culvert 742.2
- 1.3 UE, Kossuth, 1.8 mi S.-E. of S. junction of Co. "X" and gravel road; along gravel road at junction of drive and road; 18 ft N. and 15 ft W. of intersection in road; concrete culvert; chiseled square 727.06
- 1.8 UE; Kossuth, 2.25 mi S.-E. of S. junction of Co. "X" and gravel road; along gravel road, at T-rd. junction; 33 ft N. and 15 ft W. of intersection; 4 ft S. of fence line; a rail spike in telephone pole 734.16
- 2.2 UE; Kossuth, 2.75 mi S.-E. of S. junction of Co. "X" and gravel road along gravel road; 30 ft S. of center of road; 18 ft N. of fence; 18 ft W. of telephone pole; corrugated culvert 694.28
- 2.5 UE; Kossuth, 3 mi S.-E. of S. junction of Co. "X" and gravel road along gravel road; at junction of field road and road, 27 ft N. and 12 ft W. of intersection; 21 ft W. of gate corner; on corrugated culvert 711.5
- 3.0 Kossuth, 3.5 mi S.-E. of S. junction of Co. "X" and gravel road along gravel road; 4.4 mi N.-W. of Kingston along State 99 and gravel road, near $1\frac{1}{2}$ cor. sec. 34, T. 72 N., R. 2 W.; at T-junction; 42 ft S. and 93 ft W. of intersection, 75 ft W. of fence corner tree; 10 ft S. of telephone pole, 9 ft N. of fence; in concrete post projecting 6-in.; standard tablet stamped "34 RWM 1963" 661.593

<u>LINE 3 (Cont'd)</u>	<u>BURLINGTON QUAD. - 24</u>	<u>FEET</u>
3.0 Reference mark, 80 ft E. of tablet, at T-junction; 27 ft S. and 6 ft W. of intersection; 10 ft N. of fence corner; tree; on corrugated culvert		654.0
3.3 UE; Kossuth, 3.75 mi S.-E. of S. junction of Co. "X" and gravel road along gravel road; on SW. corner of bridge, 12 ft S. of center of road; in concrete curb; chiseled square		621.04
3.6 UE; Kossuth, 4.1 mi S.-E. of S. junction of Co. "X" and gravel road along gravel road, 21 ft S. of center of road, 27 ft N. of fence; 21 ft NW. of telephone pole on corrugated culvert		639.04
4.4 Kossuth, 4.85 mi S.-E. of S. junction of Co. "X" and gravel road; along gravel road, 39 ft S. of center of road; beside fence; a rail spike; in telephone pole		655.93
5.6 UE; Kossuth, 5.05 mi S.-E. of S. junction of Co. "X" and gravel road along gravel road; at junction of farm road and road, 21 ft N. and 27 ft E. of intersection; 24 ft SE. of fence corner; on corrugated culvert		678.6
4.7 UE; Kossuth, 5.25 mi S.-E. of S. junction of Co. "X" and gravel road along gravel road; at junction of field road and road; 33 ft S. and 50 ft W. of intersection; along fence line; a rail spike in telephone pole		682.84
5.2 UE; Kossuth, 5.65 mi S.-E. of S. junction of Co. "X" and gravel road along gravel road and State Hwy. 99; 27 ft W. of center of 99; 16 ft E. of fence; in round concrete culvert; a chiseled square		556.27
6.0 Reference mark, 30 ft S. of tablet, near junction of field road and road, 21 ft N. and 21 ft W. of intersection; 34 ft W. and 8 ft S. of fence corner; on corrugated culvert		529.6
6.0 Kossuth, 6.53 mi S.-E. of S. junction of Co. "X" and gravel road along gravel road and State 99; 2.8 mi N.-E. of Kingston along Hwy. 99 and gravel road, 0.2 mi W. of E $\frac{1}{4}$ cor. sec. 25, T. 72 N., R. 2 W.; at junction of field road and road; 63 ft N. and 22 ft W. of intersection; 55 ft NW. of fence corner; 7 ft N. and 37 ft W. of telephone pole along N.-S. fence line; 2.5 ft S. of fence; in concrete post; projects 6-in.; a standard tablet stamped "35 RWM 1963"		531.194
6.5 UE; Kossuth, 7 mi S.-E. of S. junction of Co. "X" and gravel road along gravel roads and State 99, 28 ft N. of center of road; on corrugated culvert		523.3
7.3 UE; Kossuth, 7.75 mi S.-E. of S. junction of Co. "X" and gravel road along gravel roads and State 99; at crossroads, 36 ft S. and 75 ft W. of intersection on NE. corner of concrete curb; around weighing station; chiseled square		531.06
7.3 UE; Kossuth, 8.25 mi S.-E. of S. junction of Co. "X" and gravel road along gravel roads and State 99; at junction of field road and road; 12 ft S. and 27 ft W. of intersection; in round concrete culvert; chiseled square		529.90
8.3 UE; Kossuth, 8.75 mi S.-E. of S. junction of Co. "X" and gravel road; along gravel roads and State 99; at junction of field road and road, 12 ft N. and 24 ft W. of intersection; in round concrete culvert; chiseled square		529.73

LINE 4

D.R. Lucas, 1964; Book CV-1752

WAPELLO QUAD. - 45

0.0 At Morning Sun, Louisa County, on State Hwy. 78, at the grade schoolyard, 132 ft NW. of the NW. corner of the building, 10 ft E. of the E. edge of the sidewalk and directly E. of a right-angle turn in the hwy.; USC&GS and state survey standard disk stamped "58-32" and set in top of a concrete post flush with the ground	745.543
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LINE 4 (Cont'd)	WAPELLO QUAD. - 45	FEET
0.7 UE 58-32-A, 9.75 mi N. of tablet, about 0.5 mi N. of Morning Sun on Co. Road, 35 ft S. and 44 ft E. of T-rd. E., on W. side of power line pole; a rail spike		736.13
1.7 UE 58-32-B; 1.75 mi N. of tablet, 32 ft N. and 31 ft E. of crossroads, in S. side of power line pole; a rail spike		716.91
3.2 Reference mark, 6 DRL A; 80 ft E. of tablet, 35 ft S. and 30 ft E. of crossroads, in telephone pole; a rail spike		676.00
3.2 Morning Sun, 2.5 mi N. and 0.5 mi E. of Wapello, 3.5 mi S. and 2.5 mi W. of; near quarter corner of secs. 7 and 18, T. 73 N., R. 3 W., 32 ft S. and 56 ft W. of and 1.8 ft higher than crossroads, 1 ft N. of right-of-way fence; in concrete post; standard tablet stamped "6 DRL 1964"		679.810
3.2 Reference mark 6 DRL B, 75 ft NE. of tablet, 35 ft N. and 34 ft W. of crossroads, in power line pole; a rail spike		678.61
5.2 UE 6 B, 2 mi N. of tablet, 30 ft S. and 80 ft W. of crossroads; on S. side of power line pole; a rail spike		591.15
6.2 UE 6 C, 3 mi N. of tablet, 33 ft W. of center of road, 55 ft S. of T-fence W., on E. side of power line pole; a rail spike		598.30
6.7 Reference mark 7 DRL; 80 ft S. of tablet, 63 ft S. and 4.5 ft W. of crossroads, in E. side of power line pole; a rail spike		590.14
6.7 Wapello, 2.5 mi W. of; near center of sec. 30, T. 74 N., R. 3 W., 55 ft W. and 17 ft N. of crossroads; on N. headwall of a concrete culvert (box); standard tablet stamped "7 DRL 1964"		591.351
7.2 UE 7 A; 0.5 mi E. of tablet, 55 ft S. and 32 ft E. of T-rd. N., on N. side of power line pole; a rail spike		589.21
8.3 UE 7 B; 1.5 mi E. of tablet, 34 ft N. and 145 ft W. of Hwy. at drive S., on S. side of power line pole; a rail spike		584.98
9.3 UE 7 C; 2.5 mi E. of tablet at intersection of Hwy. 61 and Co. Road "A", 90 ft N. and 19 ft W. of crossroads; on W. side of power line pole; a R.R. spike		583.00
10.1 Reference mark 8 DRL; 55 ft SW. of tablet, 26 ft S. and 17 ft W. of T-rd. S., on NW. cor. of concrete sidewalk; a chiseled square		578.75
10.1 At SE. edge of Wapello, on NW. wingwall of State Hwy. 99 bridge over Iowa River; a standard tablet stamped "8 DRL 1964"		579.771
10.9 UE 8 A, 0.75 mi E. along State Hwy. 99 from tablet, 27 ft N., 12 ft W. and 1.7 ft lower than center of T-rd. NE.; on NW. end of 24-in. concrete culvert; a chiseled square		559.69
11.5 UE 8 B; 1.5 mi SE. along Hwy. 99 from tablet, 43 ft SE., 41 ft W. and 3.7 ft lower than crossroads; in NW. end of a metal culvert; a punched mark		557.1
12.1 UE 8 C, 2.1 mi SE. along Hwy. 99 from tablet, 79 ft W. of and 2.7 ft lower than T-rd. SW., on NW. end of SW. headwall of concrete box culvert; a chiseled square		559.03
13.1 UE 8 D, 3 mi SE. of tablet, on NW. end of NE. headwall of concrete box culvert; 20 ft NE. of center of road; a chiseled square		558.88

LINE 4 (Cont'd)

WAPELLO QUAD. - 45

FEET

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|------|---|---------|
| 13.3 | Wapello, 3.25 mi SE. of along Hwy. 99 near $S\frac{1}{2}$ cor. sec. 31, T. 74 N., R. 2 W., 74 ft N. of intersection of Hwy. 99 and field entrance NE.-SW., 3 ft NW. of telephone pole, 1.5 ft SW. of right-of-way fence, in concrete post; standard tablet stamped "9 DRL 1964" | 571.542 |
| 13.3 | Reference mark, 100 ft SE. of tablet on NW. end of NE. headwall of a concrete box culvert; and 41 ft NE. of center of road; a chiseled square | 571.15 |
| 13.9 | UE 9 A, 0.6 mi SE. of tablet, 54 ft N. and 0.7 ft lower than T-rd. NE., on NW. end of a painted round concrete culvert; a chiseled square | 629.63 |
| 15.1 | UE 9 B; 1.8 mi SE. of tablet, 41 ft S. and 48 ft E. of and 3.4 ft lower than intersection of County Road and Hwy. 99; on SE. end of a round concrete culvert; a chiseled square | 636.18 |
| 15.8 | UE 9 C; 2.5 mi SE. along Hwy. 99 from tablet, on SE. end of the SW. headwall of a concrete box culvert; 22 ft SW. of the 1.7 ft lower than center of Hwy.; a chiseled square | 613.16 |
| 16.2 | Reference mark, 170 ft NW. of tablet, in center of Hwy. at road S., a copper nail and washer | 653.56 |
| 16.2 | Wapello, 6 mi SE. of; Oakville, 5.0 mi NW. of; near cor. secs. 3, 4, 9 and 10, T. 73 N., R. 2 W., 59 ft S. and 149 ft E. of a T-rd. S., 3 ft NW. of a power line pole and 2 ft NE. of a right-of-way fence; in concrete post; standard tablet stamped "10 DRL 1964" | 650.469 |
| 17.2 | UE 10 A; 1 mi SE. along Hwy. 99 from tablet, 50 ft N. and 15 ft W. and 2.9 ft lower than T-rd. NE., on NW. end of 24-in. concrete culvert; a chiseled square | 673.12 |
| 18.2 | UE 10 B, 2 mi SE. along Hwy. 99 from tablet, 12 ft N. and 72 ft E. and 3.1 ft lower than center of hwy. at field entrance E., on N. end of a round concrete culvert; chiseled square | 658.21 |
| 19.1 | Reference mark, 175 ft NE. of tablet, 21 ft S. and 47 ft E. of a T-drive E. into a cemetery, on S. end of road concrete culvert; a chiseled square | 649.25 |
| 19.1 | Oakville, 1 mi W. and 1 mi N. of, near cor. of secs. 14, 15, 22 and 23, T. 73 N., R. 2 W., 72 ft W. of and 2.8 ft lower than T-rd. WNW. and Hwy. 99, 4 ft S. of a fence corner; in concrete post; standard tablet stamped "11 DRL 1964" | 648.019 |
| 20.1 | UE 11 A, 1 mi S. along Hwy. 99 from tablet, 1 mi W. of Oakville in center of bridge over Iowa River; a chiseled square (Elev. of water on 7-15-64 is 535.1) | 560.0 |
| 20.5 | UE 11 B, 1.4 mi S. of tablet, at intersection of Hwy. 99 and M. & S. L. R.R. on concrete base of W. blinker signal; a chiseled square | 553.12 |
| 22.0 | Oakville, 2.4 mi W. along the Minneapolis and St. Louis R.R. from the station at; at pole 390+15, at a private road crossing, 60 ft S. of the S. rail, 14 ft S. of the right-of-way fence and 2 ft W. of a fence, a USC&GS and state survey standard disk stamped "58-41" and set in top of a concrete post | 553.057 |

LINE 5

D.R. Lucas, 1964; Book CV-1752

WAPELLO QUAD. - 45

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| 0.0 | UE 11 A (Described in Line 4) | 560.0 |
| 1.1 | Oakville, at intersection of Main St. and M. & S. L. R.R., 17 ft N. and 35 ft W. of center of street and R.R. track, in a concrete post; a standard tablet stamped "12 DRL 1964" | 542.662 |
| 1.1 | Reference mark, 155 ft N. of tablet, 172 ft N. and 24 ft W. of intersection of R.R. track at Main Street, on SE. corner of a concrete sidewalk; a chiseled square | 541.09 |

<u>LINE 5 (Cont'd)</u>	<u>WAPELLO QUAD. - 45-IA, 216 ILL.</u>	<u>FEET</u>
2.2 UE 12 A, 1 mi E. along R.R. from Oakville, 23 ft S. and 46 ft W. of and 4.9 ft lower than grade crossing on telephone pole, a R.R. spike		537.00
3.0 UE 12 B, 1.8 mi E. along County Road from Oakville, 33 ft S. and 32 ft E. of and 1.6 ft lower than T-rd. S., in telephone pole and R.R. spike		532.88

KEITHSEBURG QUAD. - 44

4.2 Oakville, 3 mi E. of; near cor. of secs. 20, 21, 28 and 29, T. 73 N., R. 1 W., 88 ft E. and 1.6 ft lower than county road intersection; 5 ft N. of a fence corner; in concrete post; a standard tablet stamped "13 DRL 1964"	530.977
4.2 Reference mark, 78 ft SW. of tablet, 46 ft S. and 18 ft E. of center of intersection of County Road, in SW. end of 24-in. metal culvert; a punched hole	530.95

LINE 6

<u>D.R. Lucas, 1964; Book CV-1752</u>	<u>WAPELLO QUAD. - 45 IA. - 216 ILL.</u>	
0.0 "58-32" USC&GS (Described in Line 4)		745.543
0.1 UE 58-32 C, 800 ft S. of tablet, 131 ft N. and 55 ft W. of intersection of Hwy. 78 and city street N., on NE. end of round concrete culvert; a chiseled square		736.62
1.1 UE 58-32 D, 1 mi E. along Hwy. 78 from Morning Sun, 33 ft S. and 5.2 ft lower than center of Hwy. on SW. headwall of a concrete box culvert; a chiseled square		729.48
2.2 UE 58-32 E, 2 mi E. along Hwy. 78 from Morning Sun, in center of square curb of a concrete and metal bridge and 0.8 ft higher than center of bridge floor; 31.8 ft higher than water 7-16-64; a chiseled square		697.36
3.3 Reference mark, 70 ft NW. of tablet, 36 ft S. and 22 ft E. of crossroads, in E. end of a round concrete culvert; a chiseled square		734.84
3.3 Morning Sun, 3.1 mi E. of; Newport, 1 mi W. of; 58 ft S. and 96 ft E. of and 0.9 ft lower than center of Hwy. 78 at N.-S. county road, 2 ft S. of power line pole, 2 ft N. of right of way fence in concrete post; a standard tablet stamped "14 DRL 1964"		735.538
4.0 UE 14 A, 0.7 mi E. of tablet, at Newport, 36 ft S. and 156 ft W. and 2.9 ft lower than intersection of Hwy. 61 and 78; in E. end of a round concrete culvert; a chiseled square		722.91
4.2 UE 14 B, 2.0 mi E. of tablet, 1.25 mi E. of Newport; 26 ft S. and 27 ft W. and 2.8 ft lower than crossroads; in S. end of a concrete culvert; a chiseled square		711.38
4.7 UE, junction, 2.1 mi W. of junction of Co. Rd. "K" and gravel road along "K" at crossroads of "K" and gravel road; 60 ft S. and 21 ft W. from intersection; in NE. corner of concrete walk to church; chiseled "X"		694.12

LINE 7

<u>E.D. Bolin, 1976; Book CV-3332</u>	<u>WAPELLO QUAD. - 45 IA., 216 ILL.</u>	
1 2 C.O. Wapello, 2.5 mi W. of; near center of sec. 30, T. 74 N., R. 3 W., 55 ft W. and 17 ft N. of crossroads; on N. headwall of a concrete culvert (box); standard tablet stamped "7 DRL 1964"		591.351

LINE 7 (Cont'd)

WAPELLO QUAD. - 45 IA., 216 ILL.

FEET

- 1 3 1.0 UE 7 AA, 1 mi N. along road from the tablet; T. 74 N., R. 3 W., near the center of sec. 19, 18 ft S., 27 ft E. and 1.8 ft lower than the center of the N.-S. road at the E.-W. fence line, on top of and at the S. end of the round metal culvert; a punched hole 592.19
- 5 1.6 UE 7 BB, 1.6 mi N. along road from the tablet; T. 74 N., R. 3 W., near the quarter cor. between secs. 18 and 19, 22 ft N., 24 ft E. and 1.5 ft lower than centerline of the crossroads, on top of a R.R. track rail driven vertically into the ground and projecting 1 ft above ground and painted yellow 592.7
- 8 2.6 UE 7 CC; 2.6 mi N. along road from the tablet; T. 74 N., R. 3 W., about 400 ft N. of the quarter cor. between secs. 7 and 18; 54 ft S., 40 ft E. and level with the centerline of the Y-rd. SE., 1 ft N. of the cor. fence post; on top of a copper coated rod projecting 1 ft above the ground 587.97

WINGFIELD QUAD. - 46 IA.

- 10 4.0 Reference mark, 272 ft SE. of tablet; 111 ft E., 31 ft S. centerline of R.R. crossing on N. side of a lone tree; a R.R. spike 594.94
- 11 4.1 BM, Columbus City; 2 mi S. and 5.5 mi E. of; T. 74 N., R. 4 W., near the W. sixteenth cor. between the NW $\frac{1}{4}$ and the SW $\frac{1}{4}$ of sec. 12, 46 ft N., 111 ft W. and 3.9 ft higher than the centerline of the R.R. crossing, 30 ft SW. of the SW. rail; 1 ft NE. of the SW. right-of-way fence, 1 ft NE. of the witness post; in inside of a 6-in. drain tile, a standard tablet stamped "1 DDB 1976" *Reset 1985 see list page 598-891*

LINE 8

D.D. Bolin, 1976; Book CV-3332

WINGFIELD QUAD. - 46 IA.

- 2 43 0.0 EM, At Morning Sun, Louisa County, on State Hwy. 78, at the grade schoolyard, 132 ft NW. of the NW. cor. of the building, 10 ft E. of the sidewalk, and directly E. of a right-angle turn in the hwy., a State Survey standard USC&GS disk stamped "58-32" and set in the top of a concrete post flush with the ground 745.543
- 51 1.1 UE 58-32 A, 1.1 mi S. along road from the tablet; T. 72 N., R. 3 and 4 W., in the NW. cor. of sec. 6; 33 ft S., 59 ft E. and 3 ft lower than the centerline of the crossroads, on top and at the E. end of the round metal culvert; a punched hole 764.96
- 53 2.2 UE 58-32 B, 2.2 mi S. along road from the tablet; T. 72 N., R. 3 and 4 W., near the cor. of secs. 1, 6, 7 and 12, 158 ft S., 18 ft W. and 8.5 ft lower than the centerline of the crossroads; on top and at the S. end of the concrete headwall of the concrete box culvert; a chiseled square 751.73
- 55 3.2 Reference mark, 75 ft NE. of the tablet; 20 ft N., 52 ft E. of the crossroads; on top and at the N. end of the round concrete culvert; a chiseled square 774.21
- 56 3.2 EM, Morning Sun; 3.5 mi S. of; T. 72 N., R. 3 and 4 W., near the cor. of secs. 7, 12, 13 and 18; 83 ft S., 33 ft E. and 2.6 ft lower than the centerline of the crossroads; 1 ft W. of the E. right-of-way fence, 1 ft W. of the witness post, set inside of a 6-in. drain tile, a standard tablet stamped "11 DDB 1976" 774.127
- 59 4.7 UE 11 A, 1.5 mi S. along road from the tablet; T. 72 N., R. 3 and 4 W., near the quarter cor. between secs. 19 and 24; 72 ft S., 2 ft E. and 1 ft lower than the centerline of the crossroads; 15 ft S., 10 ft E. of the R.R. crossing, 3 ft S. of the S. rail; on top and at the S. end of the round steel culvert; a chiseled cross 774.39

LINE 8 (Cont'd)

WAPELLO QUAD. - 45 IA. - 216 ILL.

FEET

- 2 62 5.7 UE 11 B, 1.5 mi S. and 1 mi E. along road from the tablet; T. 72 N., R. 3 and 4 W., near the quarter cor. between secs. 19 and 20; 33 ft S., 26 ft E. and 0.7 ft lower than the centerline of the crossroads; 9 ft N. and 18 ft E. centerline of the RR. crossing 7 ft N. of the N. rail; on top and at the N. end of the round concrete culvert; a chiseled cross 771.08
- 64 7.2 BM, Mediapolis, 3.6 mi W. of junction of U.S. 61 and Co. "X" along road at crossroads of "X" and Co. "T", near SW. cor. sec. 29, T. 72 N., R. 3 W., 63 ft N. and 51 ft E. of intersection; 25 ft NE. of telephone pole, 20 ft W. of fence around cemetery; in concrete post projecting 6-in. standard tablet stamped "29 BM 1963" 754.597

LINE 9

P.E. Clayton, 1979; Book CV-3480

BURLINGTON QUAD. - 201 ILL. - 24 IA.

- 1 19 6.2 BM, Kingston, 1.5 mi E. of, near quarter cor. between secs. 5 and 6, T. 71 N., R. 1 W., 189 ft N. of T-rd. SE., 38 ft W. centerline road, 1 ft E. of fence, 1.8 ft W. of power pole, on top of copper coated steel rod, inside 6-in. plastic pipe flush with ground, a standard tablet stamped "1 PC 1978" 520.505
- 21 6.6 UE 1 A, 0.45 mi N. along gravel road from BM, near cor. secs. 5, 6, 31 and 32, T. 71 and 72 N., R. 1 W., 50 ft S., 31 ft E. and 3.6 ft lower than crossroads, on S. end of concrete culvert; a chiseled square 524.53
- 23 7.1 UE 1 B, 1 mi N. along gravel road from tablet, near quarter corner between secs. 31 and 32, T. 72 N., R. 1 W., 12 ft N. and 24 ft W. of road at field entrance W. on N. end of round concrete culvert; a chiseled square 529.83
- 25 7.6 UE 1 C, 1.5 mi N. along road from tablet near cor. secs. 29, 30, 31 and 32, T. 72 N., R. 1 W., 12 ft S. and 27 ft W. of road at field entrance W., on S. end of round concrete culvert; a chiseled square 529.99

WAPELLO QUAD. - 216 ILL. 45 - IA.

- 27 8.2 UE 1 D, 2 mi N. along gravel road from tablet, near quarter cor. between secs. 29 and 30, T. 72 N., R. 1 W., 36 ft S., 75 ft W., and 1.6 ft lower than crossroad, on NE. cor. concrete curb around scale platform; chiseled square 531.15
- 29 9.2 BM, Kingston, 3 mi N. and 1.5 mi E. of near quarter cor. between secs. 19 and 20, T. 72 N., R. 1 W., 150 ft S., 12 ft E. and level with centerline bridge 1 ft S. of N. end of SE. cor. wingwall of bridge, on concrete curb, a standard tablet stamped "2 PC 1978" 548.894
- 31 9.3 Reference mark, 300 ft NNE. of tablet, 150 ft N. and 13 ft W. centerline of bridge, on top of W. concrete wingwall of bridge, a chiseled square 550.86
- 33 9.7 UE 2 A, 0.5 mi N. along gravel road from tablet, near cor. secs. 17, 18, 19 and 20, T. 72 N., R. 1 W., 30 ft S., 24 ft E. and 1.7 ft lower than T-rd. E., on W. end of round concrete culvert, under field entrance; a chiseled square 526.34

KEITHSEURG QUAD. - 215 ILL. 44 IA.

- 35 10.3 UE 2 B, 0.5 mi N. thence 0.5 mi E. along gravel road from tablet, near quarter cor. between secs. 17 and 20, T. 72 N., R. 1 W., 10 ft S., 15 ft E. and 1.8 ft lower than centerline bridge on S. end of steel I-beam; a chiseled cross 532.39

LINE 9 (Cont'd)

KEITHSBURG QUAD. - 215 ILL. 44 IA.

FEET

- 1 38 11.3 UE 2 C, 0.5 mi N. thence 1 mi E. thence 0.5 mi N. along gravel road from tablet, near quarter cor. between secs. 16 and 17, T. 72 N., R. 1 W., 11 ft N., 24 ft E. and 3.8 ft lower than road at field entrance E., on N. end of metal pipe culvert; a punched hole 527.82
- 40 11.8 BM, Kingston, 4.5 mi N. and 2.5 mi E. of, 3.5 mi S. and 3 mi E. of Oakville, near cor. secs. 8, 9, 16 and 17, T. 72 N., R. 1 W., 109 ft N., 32 ft E. and 3 ft lower than crossroad, 2.2 ft N. of power pole, 1 ft W. of fence on top of copper-coated steel rod inside 6-in. plastic tile flush with ground, a standard tablet stamped "3 PC 1978" 532.590
- 41 11.9 Reference mark, 380 ft N. of tablet, 489 ft N. and 32 ft E. of crossroad, 0.5 ft W. of fence, 2.5 ft W. of and in line with power pole E. of fence, top of 0.5-in. steel rod, flush with ground 533.27
- 43 13.1 UE 3 A, 1.25 mi N. along gravel road from tablet, near S. sixteenth cor. between secs. 4 and 5, T. 72 N., R. 1 W., 20 ft W. and 3 ft lower than road at drain, 5.9 ft above water on W. end of steel pipe culvert; a punched hole 530.06
- 47 14.3 BM, Oakville, 1.75 mi S. and 2.5 mi E. of near quarter cor. between secs. 5 and 32, T. 72 and 73 N., R. 1 W., 14 ft N., 14 ft W. and 0.4 ft higher than centerline bridge, 1 ft S. of N. end of W. concrete curb of bridge, a standard tablet stamped "4 PC 1978" 535.061
- 48 14.3 Reference mark, 55 ft NE. of tablet, 55 ft N. and 22 ft E. centerline of bridge, 15 ft N. and 22 ft E. centerline road at field entrance E., on N. end of metal pipe culvert under field entrance, a punched hole 531.95
- 52 15.4 UE 4 A, 1.1 mi N. along road from tablet approx. 0.1 mi N. of quarter cor. between secs. 29 and 32, T. 73 N., R. 1 W., 13 ft N., 12 ft W. and 0.0 ft higher than centerline of bridge, 1.5 ft N. and 1 ft W. of NW. cor. bridge in top of wooden piling of wingwall, a RR. spike 530.28
- 53 15.9 UE 4 B, 1.1 mi N. thence 0.5 mi E. along gravel road from tablet near cor. secs. 28, 29, 32 and 33, T. 73 N., R. 1 W., 53 ft S., 44 ft W. and 1.3 ft lower than road at curve, 33 ft S. of road W., 1.5 ft N. of fence, 1.2 ft S. of power pole in plastic tile, top of 0.5 in. steel rod 531.53
- 54 16.9 BM, Oakville, 3 mi E. of; near cor. secs. 20, 21, 28 and 29, T. 73 N., R. 1 W., 88 ft E. and 1.6 ft lower than county road intersection; 5 ft N. of a fence corner, in concrete post, a standard tablet stamped "13 DRL 1964" 530.977-

ISOLATED BENCH MARKS

- New Boston, 3.1 mi NW. of, in SE $\frac{1}{4}$ sec. 13, T. 14 N., R. 6 W., 180 ft E. of bridge over large drainage canal, at point where road crosses low ridge, on N. side of road, at residence of Lyman Smith, 4 ft W. of W. end of gate, in concrete post; standard tablet stamped "2 A 1931" 536.321
- New Boston, 3.9 mi NW. of, at Pin Oak School, near cor. secs. 13, 14, 23 and 24, T. 14 N., R. 6 W., in SW. angle of junction of road S., at NE. cor. of schoolhouse on SE. corner of concrete platform chiseled square 534.14
- New Boston, 5.4 mi NW. of, near E $\frac{1}{2}$ cor. sec. 15, T. 14 N., R. 6 W., 30 ft S. and 25 ft W. from crossroads, 5 ft S. of NE. corner of yard of dwelling, in concrete post; standard tablet stamped "3 A 1931" 534.620

12
41-091-22
WAPELLO QUADRANGLE
216 - ILLINOIS
45 - IOWA

ISOLATED BENCH MARKS (Cont'd)

FEET

New Boston, 6.8 mi NW. of, at Swan Lake School, near center of sec. 10, T. 14 N., R. 6 W., at right angle turn in road from E. to N. side of road, on SW. cor. of concrete porch floor in front of school-house; chiseled square 536.54

New Boston, 8.7 mi NW. of, near N. cor. secs. 3 and 4, T. 14 N., R. 6 W., 130 ft S. and 40 ft W. from junction of T-rd. S., 33 ft S. and 40 ft W. from center of bridge over drainage ditch, 16 ft W. of fence corner, on S. side of fence along S. bank of ditch; in concrete post; standard tablet stamped "4 A 1931" (Reported destroyed 9-4-56 JJW) 535.257

T. 15 N., R. 6 W., near quarter cor. secs. 27 and 34, 350 ft N. of T-rd. W., on W. side of road; at SE. corner of farmhouse; on S. side near bottom of top course of concrete block foundation; center of chiseled square 534.00

WINFIELD QUADRANGLE
45 IOWA

R E S E T

BM 1 DDB 1976 RESET 1987

BM; COLUMBUS CITY, 2.0 MI S. AND 5.15 MI E. OF; T. 74 N., R.
4 W., 226 FT. W. OF "T" IRON MARKING THE E. $\frac{1}{4}$ COR. OF SEC. 11,
AT A 223 FT. X 30 FT. CONCRETE SLAB BRIDGE, 1.0 FT ABOVE THE
BRIDGE FLOOR, 1.6 FT. W. OF THE SE. WING POST, SET IN THE TOP
OF THE E. END OF THE CONCRETE CURB, STD. TABLET STAMPED "1 DDB
1976 RESET 1987"

RESET ELEVATION 583.057 FT.

RESET BY LOUISA COUNTY ENGINEER WAPELLO, IOWA