

THIRD ORDER LEVELS
SEA LEVEL DATUM OF 1929

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

MUSCATINE QUADRANGLE

67 Iowa

231 Illinois

N4115 W9100/15

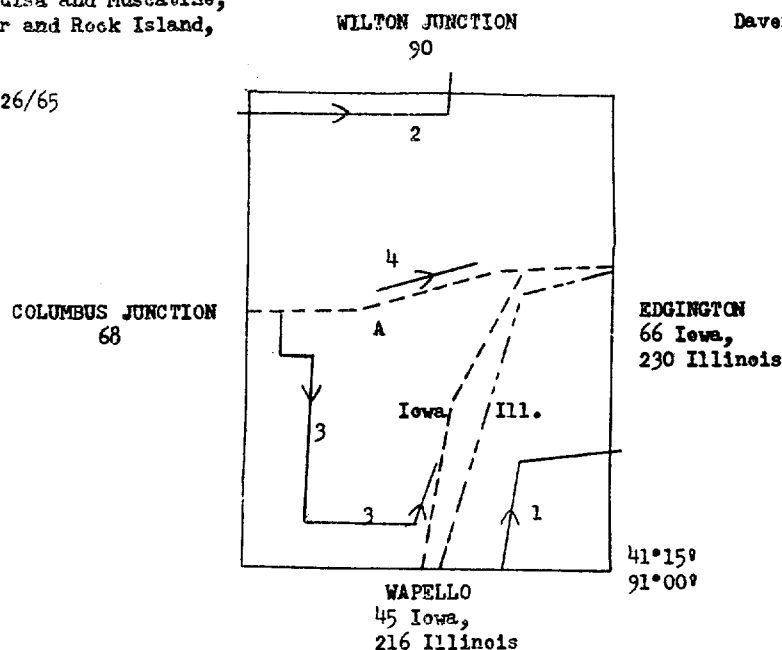
Diagram NK 15-9

Davenport, Iowa. Ill

Counties: Louisa and Muscatine,
Iowa; Mercer and Rock Island,
Illinois

Edition of 1/26/65

PR: AH/jrm



USC&GS LEVELING

A. No. 410912

LINE 1.

FEET

GENERALLY NORTH IN SOUTHEAST PORTION OF QUAD (S.R. Arbher, 1931, B-4140)

WAPELLO QUAD. - 45

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" (destroyed JNW 9/46)

535.257

MUSCATINE QUAD. - 67

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

534.00

T. 15 N., R. 6 W., 0.15 mi N. of center sec. 22, 30 ft S. of private rd. W., 25 ft S. of fence cor., on W. side of rd. at fence line, in concrete post; standard tablet stamped "5 A 1931"

537.769

T. 15 N., R. 6 W., near S. cor. secs. 2 and 3; at Union School, 90 ft N. and 25 ft W. from junction of private rd. W.; at E. end of concrete walk to school; on S. cor.; chiseled square

535.80

T. 15 N., R. 6 W., near quarter cor. between secs. 3 and 10; 0.6 mi W. of Union School, 0.3 mi below ft of Blanchard Island, 650 ft N. of intersection of E.-W. sec. line and E. bank of river, 85 ft W. of N.-S. rd., 26 ft back from river bank; Miss. River

Coast. BM "138/2"

cap on iron pipe
bolt in tile

540.730

536.730

67 D

MUSCATINE QUAD. - 67

FEET

LINE 1. Cont'd.

- T. 15 N., R. 6 W., near quarter cor. between secs. 2 and 3, 0.5 mi N. of Union School, 40 ft S. and 30 ft E. from junction of T-rd. E., 10 ft S. of fence corner; in concrete post; standard tablet stamped "A 6 1931" 540.120
- T. 15 N., R. 6 W., near S $\frac{1}{2}$ cor. sec. 1, at NW. cor. of bridge over drainage ditch; on top of cylindrical steel pier filled with concrete; chiseled square 529.90
- T. 16 N., R. 5 W., 0.25 mi N. of S $\frac{1}{2}$ cor. sec. 31, 0.25 mi N. of Mercer-Rock Island Co. line, 220 ft S. of concrete bridge, 55 ft N. of junction of rd. SE., 40 ft N. of fence corner; on E. side of rd. along foot of bluffs, in concrete post; standard tablet stamped "7 A 1931" (destroyed 8/15/63 R.E.P.) 567.004
- Reference mark, 220 ft N. of tablet, at S. abutment of concrete bridge; on top of E. parapet; chiseled square 569.11

EDINGTON QUAD. - 66

- T. 15 N., R. 5 W., near NW. cor. sec. 5 at S. end of jog S. in rd., on top of W. end of N. headwall, at junction of wingwall; chiseled square 731.91
- T. 15 N., R. 5 W., 0.25 mi W. of NE. cor. sec. 5, 2.7 mi S. and 0.7 mi W. from Wrayville, 55 ft S. and 35 ft W. from crossroads; in fence corner; in root on NW. side of 28-in. cottonwood tree; copper nail and washer 745.99

LINE 2.

EAST ALONG NORTH BORDER (L.H. Tackett, 1963, CV-1600) Line replaces one by W.R. Broadus, 1930

COLUMBUS JUNCTION QUAD. - 68

- 2.6 Reference mark, 33 ft S. and 52 ft E. of crossroads; top of steel right-of-way marker 633.10
- 2.6 West Liberty, 5.0 mi S. along Hwy. 76; T. 77 N., R. 3 and 4 W., cor. secs. 1, 6, 7 and 12, 32 ft N., 75 ft E. and 0.9 ft lower than crossroads, about 1 ft S. of fence and 2 ft W. of power pole set flush with ground; standard tablet in top of concrete post; stamped "632 19 LMT 1963" painted "EM631.7" 631.785
- Note: Elev. of "TT 5 S 1929" described below was established by W.R. Broadus, 1930; this EM is located near this point and was reported disturbed by Tackett, but was not included in this line.
- T. 77 N., R. 3 and 4 W., cor. secs. 1, 6, 7 and 12, 25 ft N., 70 ft E. of crossroads; in concrete post; standard tablet stamped "TT 5 S 1929" 632.199

MUSCATINE QUAD. - 67

- 3.5 UE 19 LMT A, T. 77 N., R. 3 W., cor. secs. 5, 6, 7 and 8, 32 ft S. and 34 ft W. and 3.0 ft lower than crossroads; punched hole in S. end of steel pipe culvert; painted "UE 628.7" 628.7
- 4.6 UE 19 LMT B, T. 77 N., R. 3 W., near cor. secs. 4, 5, 8 and 9, 11 ft N., 0.5 ft higher than center bridge; 6 ft above water; chiseled square in center of N. headwall of bridge; painted "UE 611.9" 611.97
- 5.6 Reference mark, 26 ft S., 34 ft W. of T-rd. S.; a punched hole in E. end of steel pipe culvert under field rd. entrance 611.4
- 5.6 West Liberty, about 5.0 mi S. and 3.0 mi E. of; T. 77 N., R. 3 W., cor. secs. 3, 4, 9 and 10; 34 ft N. and 115 ft E. and 0.7 ft lower than T-rd. S.; 2 ft W. of power pole set flush with ground; standard tablet in top of concrete post stamped "612 20 LMT 1963" painted "EM 612.1" 612.188
- Note: "TT 4S 1929" which was located near this point has been destroyed.

<u>LINE 2. Cont'd.</u>	<u>MUSCATINE QUAD. - 67</u>	<u>FEET</u>
6.7 UE; T. 77 N., R. 3 W., in NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 3, on top of W. abutment of bridge over Co. Rd. "W" over Cedar River; on upstream side; a chiseled square; 15 ft above the water and 1.6 ft lower than center of bridge		624.55
7.3 UE; T. 77 N., R. 3 W., in SW $\frac{1}{4}$ sec. 2, top of N. end of E. abutment of Co. Rd. "W"; bridge over Slough Creek, 0.2 ft lower than center of bridge; 11.5 ft above water; chiseled square painted "UE 621.8"		621.85
8.0 T. 77 N., R. 3 W., about 0.25 mi S. of cor. secs. 1, 2, 11 and 12, 85 ft S. of Co. Rd. "W"; 40 ft E. of rd. on line between secs. 11 and 12, 2.7 ft lower than T-rd. S., in concrete post; standard tablet stamped "TT 3 S 1929" (post not solid in ground)		617.751
8.9 UE; T. 77 N., R. 3 W., about 0.25 mi E. of center sec. 12, 600 ft W. of Stuart's farm house, on N. heading of concrete culvert under Co. "W"; chiseled square about 0.8 ft higher than center of rd. at culvert; painted "UE 674.6"		674.61
9.6 UE; T. 77 N., R. 2 W., near center sec. 7, 230 ft SE. of crossroads; and cor. in Co. "W" in top of first concrete step to entrance to school; a chiseled square 1.5 ft higher than crossroads; painted "UE 705.5"		705.57
10.4 UE 20 LMT A, T. 77 N., R. 2 W., about 0.3 mi W. of center sec. 8, 15 ft S. and 0.6 ft lower than center of rd. at culvert under Co. "W", 10 ft above the water; a chiseled square in center of S. headwall painted "UE 657.8"		657.87
11.1 Atalissa, 5.5 mi S. and 3.4 mi E. of, T. 77 N., R. 2 W., quarter corner between secs. 8 and 9, 100 ft S., 45 ft W. and 5.6 ft lower than rd. at driveway E., 1.5 ft W. of telephone pole projecting 2 in. above the ground; standard tablet in top of concrete post stamped "692 21 LMT 1963" painted "691.6"		691.640
NOTE: "TT 2 S 1929" which was located near this point has been destroyed.		
11.1 Reference mark, 11 ft N., 28 ft E. of rd. at driveway E.; a punched hole in N. end of steel pipe culvert		695.66
NOTE: "TT 1 S 1929" described below and with elevation established by W.R. Broadus in 1930 is near this point but was not recovered when this line was run.		
T. 77 N., R. 2 W., 25 ft N. and 55 ft W. of crossroads; cor. secs. 1, 2, 11 and 12; in concrete post; standard tablet stamped "TT 1 S 1929"		732.616
11.6 UE 21 LMT A; T. 77 N., R. 2 W., about 0.25 mi W. of cor. secs. 4, 5, 8 and 9, 39 ft S., 27 ft W. and 2.5 ft lower than T-rd. E.; a punched hole in S. end of steel pipe culvert; painted "UE 713.0"		713.1
<u>WILTON JUNCTION QUAD. - 90</u>		
12.6 UE 21 LMT B; T. 77 and 78 N., R. 2 W., about 0.25 mi W. of cor. secs. 4, 5, 32 and 33; 38 ft S. and 38 ft W. and 6.4 ft higher than crossroads; a RR. spike in E. side of telephone pole; painted "UE 716.6"		716.63
13.7 Atalissa at; 3.0 mi S. and 3.2 mi E. of, T. 78 N., R. 2 W., 0.25 mi W. of cor. secs. 28, 29, 32 and 33; 232 ft S., 32 ft E. and 1.1 ft lower than T-rd. S., 1 ft W. of power pole and projecting 1 in. above ground; standard tablet in top of concrete post; stamped "643 22 LMT 1963" painted "EM 643.1"		643.193

LINE 3.

SOUTH ALONG SOUTH PORTION OF WEST BORDER THENCE EAST ALONG SOUTH BORDER (D.R. Lucas, 1964, CV-1752)

MUSCATINE QUADRANGLE
67 Iowa, 231 Illinois

LINE 2. Cont'd.

MUSCATINE QUAD. - 67

FEET

- 1 2 0.0 At Cranston, on the Chicago, Milwaukee, St. Paul and Pacific RR., 140 ft E. of the station, 15 yards E. of a private road crossing, 43 ft N. of the center of the track and 13 ft E. of an 18-in. elm tree. A US&GS standard disk stamped "662.696 K 8 1930" and set in top of a concrete post. 662.696
- 2 0.3 UE 8A; about 0.25 mi W. of tablet, 34 ft S. and 36 ft W. of a crossroads, on N. side of telephone pole; a RR. spike painted "UE K-8"; 1.7 ft lower than cross roads 660.10
- 3 1.8 UE 8B; 0.25 mi E. and 1.5 mi S. of tablet, near quarter cor. sec. 25 and 30, T. 76 N., R. 3 and 4 W., 36 ft N. and 26 ft W. of T-rd. N. on NW. end of a 36-in. metal culvert; a punched hole painted "UE K 8 b" 704.2
- 3 2.2 Reference mark, 80 ft NW. of tablet, 66 ft S. and 28 ft W. of crossroads in W. end of 36" metal culvert; a punched hole painted "RM" 717.15
- 3 2.2 Letts, 2.0 mi N. of; about 0.25 mi W. of the E. $\frac{1}{4}$ cor. sec. 30, T. 76 N., R. 3 W., 100 ft S. and 51 ft E. of a crossroads, 2 ft W. of right-of-way fence and 2 ft S. of telephone pole; in a concrete post; a standard tablet stamped "1 DRL 1964" painted "BM" 721.105
- 4 3.2 UE 1A; 1.0 mi S. of tablet, 49 ft N. and 48 ft W. of crossroads, on W. side of telephone pole; a RR. spike painted "UE 1-A" 684.27
- 5 4.1 UE 1B; 1.9 mi S. of tablet, at Letts; at the intersection of RR. and Co. Hwy. "L", at end of State. Hwy. 305 on S. rail of N. track; center of rd. 657.4
- 6 4.8 UE 1C; 0.5 mi S. of Letts, 86 ft N. and 48 ft E. of a crossroads; on S. side of power line pole; a RR. spike painted "UE 1-C" 678.02
- 6 5.9 Reference mark 2-A; 105 ft W. of tablet, 34 ft N. and 50 ft W. of crossroads on N. side of telephone pole; a RR. spike painted "RM 2-A" 685.75
- 6 5.9 Letts, 1.5 mi S. of; near cor. of secs. 7, 8, 17 and 18, T. 75 N., R. 3 W., 36 ft N. and 52 ft E. of and 2.3 ft lower than crossroad; in concrete post; a standard tablet stamped "2 DRL 1964" painted "BM" 687.512
- 7 5.9 Reference mark 2-B; 87 ft S. of tablet, 49 ft S. and 49 ft E. of crossroads on the N. side of power line pole; a RR. spike painted "RM 2 B" 686.26
- 7 6.9 UE 2-A; 1.0 mi S. of tablet, 19 ft N. and 52 ft E. of crossroads; in end of a 24-in. metal culvert; a punched hole painted "UE 2-A" 666.3
- 8 7.9 UE 2B; 2.0 mi S. of tablet, 48 ft N. and 48 ft W. of crossroads; on E. side of power line pole; a RR. spike painted "UE 2-B" 647.67
- 9 8.9 Reference mark 3-A; 40 ft W. of tablet, on S. headwall of a concrete box culvert; a chiseled square painted "RM 3A" 641.13
- 9 8.9 Letts, 3.5 mi S. and 1.0 mi E. of, 1.5 mi W. along Hwy. 92 from Grandview near cor. of secs. 20, 21, 28 and 29, T. 75 N., R. 3 W., in center of N. headwall of a concrete box culvert; 2.7 ft lower than center of rd. at Owl; 7.1 ft above culvert floor; a standard tablet stamped "3 DRL 1964" 642.209
- 10 8.9 Reference mark 3-B; 110 ft SE. of tablet, on N. side of telephone pole, a RR. spike painted "RM 3-B" 642.74
- 10 9.9 UE 3-A; 1.0 mi E. of tablet, at intersection of Hwys. - State 252, U.S. 61, State 92; 55 ft N. and 44 ft W. of crossroads, on NW. headwall of a concrete culvert; a chiseled square painted "UE 3-A" 676.29

LINE 3. Cont'd.

MUSCATINE QUAD. - 67

FEET

- | | | |
|------|---|---------|
| 1 11 | 10.9 UE 3-B; 2.0 mi E. of tablet, 0.5 mi E. of Grandview, 32 ft S. and 29 ft E. of rd. at N.-S. fence on N. side of telephone pole; a rail spike painted "UE 3-B" | 692.87 |
| 12 | 12.1 Reference mark 4-A; 80 ft NW. of tablet, 31 ft N. and 35 ft W. of T-rd. N., in telephone pole; a rail spike painted "RM 4-A" | 697.12 |
| 14 | 12.1 Grandview, 1.5 mi E. and 0.25 mi S. of; about 0.25 mi S. of cor. of secs. 23, 24, 25 and 26, T. 75 N., R. 3 W., 36 ft S. and 0.1 ft higher than center of T-rd. N., 2 ft SE. of a T-fence S., in concrete post; a standard tablet stamped "4 DRL 1964" | 697.020 |
| 14 | 12.1 Reference mark 4-B; 70 ft NE. of tablet, 31 ft N. and 25 ft E. of T-rd. N., in S. end of rd. concrete culvert; a chiseled square painted "RM 4-B" | 694.51 |
| 15 | 13.5 UE 4-A; 0.75 mi N. and 0.75 mi E. of tablet, near center of sec. 9, T. 75 N., R. 2 W., in center of metal and wooden bridge; a copper nail and washer painted "UE 4-A" | 538.96 |
| 16 | 14.5 UE 4-B; 0.75 mi N. and 2.0 mi E. of tablet, near quarter cor. sec. 19 and 20, T. 75 N., R. 2 W., 33 ft S. of center rd. at levee; in telephone pole; a RR. spike painted "UE 4-B" | 535.88 |
| 17 | 15.0 UE 4-C; 0.75 mi NE., 2.6 mi E. of tablet, 43 ft N. and 44 ft W. of T-rd. W., on W. side of power line pole; a rail spike painted "UE 4-C" | 539.93 |
| 17 | 15.9 Reference mark 5-A; 3 ft W. of tablet, 33 ft S. and 31 ft E. of T-rd. E., in power line pole; a rail spike painted "RM 5-A" | 540.61 |
| 18 | 15.9 Grandview, 4.0 mi E. and 1.25 mi N. of; Muscatine, 8.7 mi S. and 3.5 mi W. of; about 0.2 mi N. of quarter cor. sec. 17 and 20, T. 75 N., R. 2 W., at intersection of Co. Hwy. "M" and Co. Rd. "E", 33 ft S., 34 ft E. and 0.8 ft lower than T-rd. E., 3 ft E. of power pole; in concrete post; a standard tablet stamped "5 DRL 1964" | 540.579 |
| 18 | 15.9 Reference mark 5-B; 150 ft NE. of tablet, 32 ft N. and 142 ft E. of T-rd. E. on S. side of power line pole; a rail spike painted "RM 5-B" | 540.98 |
| 18 | 17.3 UE 5-A; D.1 mi N. and 0.5 mi E. of tablet, 59 ft N. and 28 ft W. of cross-roads in E. side power line pole; a RR. spike painted "UE 5-A" | 547.83 |
| 19 | 18.6 UE 5-B; 2.2 mi N. and 6.0 mi E. of tablet, 160 ft E. and 11 ft N. of a T-rd. E., in power line pole; a RR. spike painted "UE 5-B" | 548.25 |
| 20 | 19.8 In Louisa County, 7.0 mi S. of Muscatine, Muscatine Co., on the right bank of the Mississippi River, at the E. Beatty farmhouse located in the SW $\frac{1}{4}$ of sec. 3, T. 75 N., R. 2 W., of the fifth principal meridian (property of A.S. McKee) and in the E. side of the NE. cor. of the brick foundation. The center of a copper bolt leaded horizontally and surrounded by the letters "USPEM" cut in the brick. Designated PEM 26 | 548.053 |

LINE 4.

EAST NEAR CENTER OF NORTH PORTION OF QUAD (D.R. Lucas, 1964, Book CV-1576)

MUSCATINE QUAD. - 67

- | | | |
|------|---|---------|
| 1 71 | 0.0 Arden, 0.6 mi W. along the C.M.ST.P.&P. RR. from, about 0.25 mi SW. of an overhead crossing near a church, 2 ft E. of the NE. gatepost of a farm rd. crossing, and 48 ft NW. of the center of the track. A. USC&GS standard disk stamped "748598 L 8 1930" set in top of a concrete post. | 748.598 |
|------|---|---------|

MUSCATINE QUADRANGLE
67 Iowa, 231 Illinois

MUSCATINE QUAD. - 67

FEET

LINE 4. Cont'd.

- | | | |
|------|---|---------|
| 1 71 | 0.8 UE L-8-A; 0.75 mi E. and 0.5 mi W. of tablet, 19 ft S. and 27 ft W. and 1.4 ft lower than crossroads; on S. end of an 18-in. metal culvert; a punched hole painted "UE L-8-A" | 723.4 |
| 72 | 2.0 UE L-8-B; 0.5 mi NE, 1.25 mi E. of tablet, on center of a wood RR. viaduct on Co. Rd.; a copper nail and washer painted "UE L-8-B" | 755.90 |
| 74 | 2.4 Reference mark, 100 ft NW. of tablet, 44 ft N. and 17 ft W. of T-rd. NW.; on E. end of NE. headwall of a concrete box culvert; a chiseled square painted "RM" | 584.92 |
| 74 | 2.4 Muscatine, 7.5 mi W. of; Ardon, 1.0 mi E. of; near center of sec. 11, T. 76 N., R. 3 W., 15 ft N. and 78 ft E. of and 1.0 ft lower than T-rd. NW.; 1.0 ft N. of right-of-way fence; in a concrete post; a standard tablet stamped "15 DEL 1964" | 585.691 |
| 75 | 3.2 UE 15-A; 0.75 mi NE. of tablet; 29 ft SE. of center of pavement; on SE. end of 36-in. concrete culvert; a chiseled square painted "UE 15-A" | 573.85 |
| 76 | 4.1 UE 15-B; 1.75 mi NE. of tablet, 30 ft S. and 30 ft E. of and 1.9 ft lower than T-rd. SE. on NW. side of power line pole; a rail spike painted "UE 15 B" | 573.74 |
| 77 | 4.7 Muscatine, 5.5 mi W. along the C.M.ST.P.&P. RR. from, 0.5 mi W. of milepost 32, at a viaduct over county highway "E" and on the N. end of the E. abutment; A US&GS standard disk stamped "633.765 M 8 1930" | 633.765 |