

THIRD-ORDER LEVELS
SEA LEVEL DATUM OF 1929

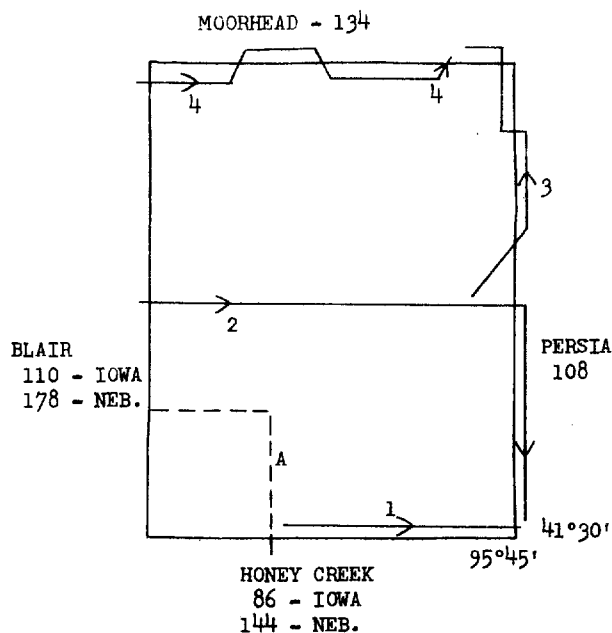
Harrison County

PR: AKH/cvb

Edition of: 3-10-66

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

MISSOURI VALLEY QUADRANGLE
109 - IOWA
N4130-W9545/15
DIAGRAM NK 15-7
OMAHA, NEB.-IOWA



USC&GS LEVELING

Quadrangle No. A410954

LINE 1

FEET

EAST ALONG EAST PORTION OF SOUTH BORDER. (R.E. Carey, 1955; Book CV-676)

MISSOURI VALLEY QUAD. - 109

- | | | |
|-----|---|----------|
| 0.0 | At Leveland, 0.3 mi NW. along the Chicago and North Western RR. from the station sign, set vertically in the NE. face of the SW. abutment of the Illinois Central RR. overpass; near the bottom of the third layer of stone, 23.3 ft SE. of the N. corner of the NW. end of the abutment, 8.4 ft SW. of the SW. rail of the SW. track, 2.9 ft above ground level, a USC&GS standard disk stamped "C 140 1948" (Recovered in good condition 5-26-55) | 1005.415 |
| 1.0 | Centerline of small bridge; copper nail and washer | 1080.3 |
| 1.9 | Reference Mark, about 270 ft NW. of tablet, 57 ft E. of centerline of rd., in root on SE. side of a 12-in. oak tree; copper nail and washer | 1276.23 |
| 1.9 | Leveland, 0.5 mi N. and 1.5 mi E. of, about 0.1 mi E. of N ¹ / ₄ cor. sec. 2, Tps. 77 and 78 N., R. 44 W., on the Pettawattamie-Harrison County Line 171 ft SE., thence 22 ft E. of the centerline of the rd. at old rd. W. and T-fence E., 1 ft W. of fence line, in concrete post; standard tablet stamped "59 RC 1955 1276" | 1275.934 |
| 2.3 | Tps. 77 and 78 N., R. 44 W., near N. cor. secs. 1 and 2, 25 ft W. of T-fence N., in root on NW. side of 10-in. elm tree; copper nail and washer | 1268.67 |

109 C

MISSOURI VALLEY QUADRANGLE
109 - IOWA

LINE 1 (Cont'd)

FEET

MISSOURI VALLEY QUAD. - 109

- 3.8 Loveland, 0.5 mi N. and 3.5 mi E. of, 24 ft N. and 308 ft W. of T-rd. S. which is near $N\frac{1}{4}$ cor. sec. 6, Tps. 77 and 78 N., R. 43 W., 24 ft N. and 157 ft W. of the center of W. end of small bridge, 1 ft S. and 2 ft E. of corner fence post at SE. corner of barn yard, in concrete post; a standard tablet stamped "60 RC 1955 1147" (Reported destroyed 10-65 C.T.W.) 1146.483
- 3.8 Reference mark, 14 ft S. and 157 ft E. of tablet, at the NW. end of small bridge, in the wooden foundation 0.2 ft lower than floor of bridge; copper nail and washer 1144.18
- 5.3 Tps. 77 and 78 N., R. 43 W., near N. cor. secs. 4 and 5, in NW. corner of floor of bridge over drainage ditch; copper nail and washer 1104.0
- 6.1 Loveland, 0.5 mi N. and 5.7 mi E. of, about 0.15 mi E. of $N\frac{1}{4}$ cor. sec. 4, Tps. 77 and 78 N., R. 43 W., 27 ft S. and 30 ft E. of rd. at T-fence S. and 1 ft N. and 30 ft E. of corner fence post of T-fence S., on top of a 17.5 ft cut bank, in concrete post; US&GS standard and State tablet stamped "Sta. 147" (Elev. by USGS) (Reported not found 10-65 C.T.W.) 1195.073
- 6.7 Tps. 77 and 78 N., R. 43 W., 0.25 mi E. of N. cor. secs. 3 and 4, centerline of bridge; nail and washer 1157.8
- 8.1 Tps. 77 and 78 N., R. 43 W., near $N\frac{1}{4}$ cor. sec. 2, centerline of bridge; nail and washer 1208.7

PERSIA QUAD. - 108

- 8.6 Loveland, 0.5 mi N. and 8.0 mi E. of, on the Pottawattamie-Harrison County Line, 40 ft S. and 252 ft W. of T-rd. S. which is near N. cor. secs. 1 and 2, Tps. 77 and 78 N., R. 43 W., 40 ft S. and 242 ft E. of NW. end of curve on County Rd. E., near W. end of triangle formed by curve and rd. forks, 3 ft N. of a power pole in concrete post; standard tablet stamped "61 RC 1955 1258" 1257.590

LINE 2

EAST THROUGH CENTER OF QUADRANGLE TO EAST BORDER THENCE SOUTH. (G.D. Scroggins, 1965; Book CV-1914)

BLAIR QUAD. 178 NEB.
108 IOWA

- 1 2 0.0 Modale, 1.1 mi S. along State Hwy. No. 300 from the Modale Consolidated School, at the NE. point of a triangle formed by a "T" Rd. junction, 114.0 ft NE. of the center of the hwy., 43.2 ft W. of the W. rail of the Chicago and North Western RR. track, 32.0 ft S. of the center of the E.-W. rd., 23.0 ft E. of the center of the N.-S. rd., 1.6 ft N. of a reference post, set in top of a concrete post projecting 0.3 ft above the ground. A US&GS standard disk stamped "B 136 1948" 1011.428
- 4 1.9 UE A, about 1.9 mi E. along State Rd. across from tablet, T. 79 N., R. 44 W., near cor. of secs. 29, 30, 31 and 32; 40 ft N., 34 ft W. and 1.9 ft lower than rd. at field entrance SW.; at base of powerline pole, at N. side head of rail spike; painted "UE A 1011.3" 1011.31

MISSOURI VALLEY QUAD. - 109

- 5 2.4 UE B, near quarter corner between secs. 29 and 32, T. 79 N., R. 44 W., 33 ft S., 16 ft W. and 1.7 ft lower than T-rd. S., on top of W. end of a 24-in. corrugated metal culvert, a punched hole; painted "UE B 1009.9" 1010.0

LINE 2 (Cont'd)

FEET

MISSOURI VALLEY QUAD. - 109

- | | | | | |
|----|------|--|---|--------|
| 1 | 6 | 2.9 | UE C, near cor. of secs. 28, 29, 32 and 33, T. 79 N., R. 44 W., 15 ft S., 24 ft E. and 1.1 ft lower than crossroads; on top of S. end of a 36-in. corrugated metal culvert, a punched hole; painted "UE C 1010.5" | 1010.6 |
| 7 | 3.9 | UE D, near corner of secs. 27, 28, 33 and 34, T. 79 N., R. 44 W., at center of T-rd. N., a painted square; painted "UE D 1012.6" | 1012.6 | |
| 8 | 4.4 | UE E; near $\frac{1}{4}$ cor. between secs. 27 and 34, T. 79 N., R. 44 W., at center of T-rd. S., a painted square; painted "UE E 1012.5 CENTERLINE" | 1012.6 | |
| 9 | 4.9 | Modale, 0.3 mi S. and 3.5 mi E. of; near cor. of secs. 26, 27, 34 and 35; T. 79 N., R. 44 W., 45 ft S. and 132 ft W. and 2.8 ft lower than field entrance S.; 5.0 ft E. of a powerline pole, 21 ft W. of W. side of a white wood frame Igloo type corn bin, in top of a concrete post a standard tablet stamped "T. GDS 1965 and projecting 0.5 ft above ground; painted "B.M. 1 1009.6" | 1009.627 | |
| 10 | 4.9 | Reference mark 1 GDS 1965, 160 ft E. of tablet, 40 ft S. and 15 ft E. of field entrance S., on top of E. end of a 24-in. corrugated metal culvert, a punched hole; painted "R.M." | 1008.7 | |
| 11 | 5.4 | UE 1 GDS A; about 0.5 mi E. along county rd. across from tablet; at a steel truss bridge over Allen Creek; at centerline of bridge; copper nail and washer painted "UE 1 A CENTERLINE 1018.7" | 1018.78 | |
| 12 | 6.5 | UE 1 GDS B, near $\frac{1}{4}$ cor. between secs. 25 and 36, T. 79 N., R. 44 W., 30 ft N., and 15 ft W. and 3.1 ft lower than rd. at drive N., on top of W. end of a 24-in. corrugated metal culvert, a punched hole; painted "UE 1 B 1011.9" | 1012.0 | |
| 13 | 7.5 | UE 1 GDS C, near $\frac{1}{4}$ cor. between secs. 30 and 31, T. 79 N., R. 43 W., at the intersection of state rd. crossing with U.S. Hwy. #75, at center of U.S. Hwy. No. 75, a chiseled square; painted "UE 1 C 1029.0 CENTERLINE" | 1029.07 | |
| 14 | 8.0 | Reference mark 2 GDS 1965; 180 ft SE. of tablet, 25 ft E. of Hwy., on top of S. end of E. headwall of a 4 by 5 ft concrete box culvert; a chiseled square; painted "R.M." | 1020.88 | |
| 14 | 8.0 | Missouri Valley, 4.5 mi N., 0.2 mi W. of; near center of sec. 30, T. 79 N., R. 43 W.; at the SW. cor. of a steel frame bridge over Willow River, on U.S. Hwy. 75, 1.0 ft W. of S. end of steel railing of bridge, 0.2 ft above floor of bridge at S. end, on top of S. concrete abutment of bridge, a standard tablet stamped 2 GDS 1965; painted "EM 2 1027.3" | 1027.336 | |
| 15 | 8.5 | UE 2 GDS A, about 0.5 mi N. of tablet, near $\frac{1}{4}$ cor. between secs. 19 and 30, T. 79 N., R. 43 W., at the centerline of a N.-S. black top rd. and a gravel county rd. E., a copper nail and washer; painted "UE 2 A CENTERLINE" | 1026.14 | |
| 16 | 9.6 | UE 2 GDS B, about 0.5 mi N. and 1.2 mi E. of tablet, near $\frac{1}{4}$ cor. of secs. 20, 29, T. 79 N., R. 43 W., 31 ft S. and 11 ft W. and 3.6 ft lower than rd. at field entrance S., on top of W. end of and 18-in. corrugated metal culvert, a punched hole; painted "UE 2 B 1039.4" | 1039.4 | |
| 17 | 10.0 | UE 2 GDS C, about 0.5 mi N. and 1.5 mi E. of tablet, near cor. secs. 20, 21, 28 and 29, T. 79 N., R. 43 W., 19 ft S., 33 ft E. and 1.2 ft lower than T-rd. N., on top of S. end of a 24-in. corrugated metal culvert, a punched hole; painted "UE 2 C 1071.6" | 1071.7 | |
| 19 | 11.0 | Logan, about 0.7 mi S. and 3.0 mi W. of; T. 79 N., R. 43 W., near cor. of secs. 21, 22, 27 and 28, 37 ft N. and 52 ft W. and 1.0 ft lower than crossroads, 3.0 ft NW. of a telephone pole, in the top of a concrete post; a standard tablet stamped "3 GDS 1965" | 1194.730 | |

MISSOURI VALLEY QUADRANGLE
109 - IOWA

LINE 2 (Cont'd)

FEET

MISSOURI VALLEY QUAD. - 109

- 1 20 11.5 UE 3 GDS A, about 0.5 mi E. of tablet, near $\frac{1}{4}$ cor. between secs. 22 and 27, T. 79 N., R. 43 W., 23 ft N. and 4.0 ft E. and 9.9 ft lower than T-rd. S., on top of E. end of and 18-in. corrugated metal culvert; punched hole; painted "UE 3 A 1199.4" 1199.4
- 21 12.9 UE 3 B, about 1.0 mi E.-NE. of tablet, near S. one-sixteenth cor. between secs. 22 and 23, T. 79 N., R. 43 W., 31 ft S. and 3.9 ft lower than centerline rd. on top and in center of S. headwall of a 15 by 24 ft concrete box culvert, a chiseled square; painted "UE 3 B 1076.5" 1076.59
- 22 13.1 UE 3 C, about 1.5 mi E.-NE. of tablet, near S. one-sixteenth cor. between secs. 23 and 24, T. 79 N., R. 43 W., 24 ft S., 15 ft W. and 0.2 ft higher than T-rd. N., on top of W. end of a 24-in. corrugated metal culvert; punched hole; painted "UE 3 C 1114.1" 1114.2
- 24 13.7 UE 3 GDS D, about 2.1 mi E.-NE. of tablet, in SE $\frac{1}{4}$ of sec. 24, T. 79 N., R. 43 W., 17 ft N. and 1.3 ft above centerline rd., on top and in center of N. headwall of a concrete box culvert; chiseled square; painted "UE 3 D 1036.7" 1036.78
- 25 14.5 Logan, at the E. (main) entrance to the Harrison County Court House; 3.9 ft above sidewalk, 2.5 ft W. from E. end of S. concrete banister of the steps, 0.2 ft W. of SW. cor. of a concrete foundation supporting a pillar on top of S. concrete banister, a standard tablet stamped "4 GDS 1965 1104" 1103.957
- 26 15.0 UE 4 GDS A, about 0.5 mi E. along U.S. Hwy. 30 from tablet, 30 ft N. and 45 ft W. of crossroads, on top of N. end of a 54-in. concrete tube type culvert, a chiseled square; painted "UE 4 A 1040.6" 1040.62
- 27 15.8 UE 4 GDS B, near $\frac{1}{4}$ cor. of secs. 19 and 30, T. 79 N., R. 42 W., in centerline of T-rd. E. (Junction of county rds. Q and 2) painted "UE 4 B CENTER-LINE 1099.9" 1099.95
- 28 16.5 UE 4 GDS C, near W. one-sixteenth cor. of secs. 20 and 29, T. 79 N., R. 42 W., 23 ft N., 11 ft E. and 1.5 ft lower than rd. at field entrance N., near the Northern Natural Gas Pipeline crossing county rd. Q, on the top of the E. end of a 48-in. corrugated metal culvert, a punched hole, painted "UE 4 C 1157.4" 1157.5

PERSIA QUAD. - 108

- 29 17.3 Logan, about 0.7 mi S. and 2.0 mi E. of T. 79 N., R. 42 W., near cor. of secs. 20, 21 28 and 29, 39 ft S. and 34 ft E. and 2.3 ft lower than crossroads, 4.3 ft SE. of fence corner post, 3.8 ft S. of S. right-of-way fence, in the top of a concrete post, a standard tablet stamped "5 GDS 1965"; painted "B.M. 1227.8" 1227.862
- 31 18.3 UE 5 GDS A, about 1.0 mi S. of tablet, near cor. of secs. 28, 29, 32 and 33, T. 79 N., R. 42 W., 210 ft N. and 15 ft E. of crossroads, on top of E. end of a 24-in. corrugated metal culvert, a punched hole; painted "UE 5 A 1206.2" 1206.3
- 32 18.8 UE 5 GDS B, about 1.5 mi S. along county rd. from tablet, 18 ft S. and 23 ft W. of T-rd. W., on top of W. end of a 24-in. corrugated metal culvert, a punched hole; painted 1254.3
- 33 19.4 UE 5 GDS C, about 2.1 mi S. along rd. from tablet, 19 ft E. and 0.9 ft lower than centerline of rd.; on top of E. end of a 60-in. corrugated metal culvert; a punched hole; painted "UE 5 C 1294.8" 1204.9

LINE 2 (Cont'd)

FEET

PERSIA QUAD. - 108

- 1 34 19.9 UE 5 GDS D, about 2.6 mi S. along rd. from tablet, 19 ft S., 28 ft W. and
and 2.9 ft lower than T-rd. W., on top of S. end of an 18-in. corrugated metal
culvert, a punched hole; painted "UE 5 D 1274.2" 1274.2
- 35 20.5 Reference mark 6 GDS 1965, 360 ft NW. of tablet, at SW. corner of bridge.
about 0.5 ft lower than floor of bridge at S. end, 28 ft above drain, on top of
most southerly bolt of steel anchor plate, painted white. 1135.2
- 36 20.5 Logan, about 3.7 mi S. and 2.0 mi E. of, T. 78 N., R. 42 W., near center of
the SE $\frac{1}{4}$ of sec. 2, 13 ft N., 39 ft E. and 1.0 ft lower than rd. at field
entrance E., 3.6 ft E. of E. right-of-way fence, 51 ft S. of a fence corner, in
the top of a concrete post; a standard tablet stamped "6 GDS 1965"; painted
"B.M. 6 1145.3" 1145.401
- 37 20.9 UE 6 A, about 0.4 mi S. along county rd. from tablet, 30 ft S., 23 ft W.
and 1.6 ft lower than crossroads, on top of W. end of an 18-in. corrugated
metal culvert; a punched hole; painted "UE 6 A 1212.8" 1212.9
- 39 21.7 UE 6 GDS B, about 1.2 mi S. along county rd. from tablet, 8 ft N., 27 ft
E. and 1.4 ft lower than field entrance E. on top of N. end of a 24-in.
corrugated metal culvert, a punched hole; painted "UE 6 B 1161.6" 1161.7
- 40 22.1 UE 6 GDS C, about 1.5 mi S. along rd. from tablet; at the junction of
county rd. Z; 27 ft N., 30 ft E. and 3.3 ft lower than rd. forks, at base
of power pole on W. side, head of R. spike; painted; "UE 6 C 1296.7" 1296.78
- 41 22.9 UE 6 GDS D, about 2.4 mi S. along county rd. from tablet, 13 ft S., 23 ft
W. and 4.1 ft lower than T-rd. W., on top of S. end of 18-in. corrugated
metal culvert ; punched hole; painted "UE 6 D 1315.0" 1315.1
- 42 23.4 Missouri Valley, about 1.0 mi S. and 8.0 mi E. of; T. 78 N., R. 42 W., in
the SE $\frac{1}{4}$ of sec. 23, at the E.-W. $\frac{1}{4}$ sec. line fence, 40 ft E. and 4.8 ft lower
than centerline rd., 4.2 ft SE. of fence corner; 2.4 ft E. of E. right-of-way
fence; about 425 ft S. of a white wood frame farmhouse; 1.2 ft E. of a stand-
ard metal witness post, in the top of a concrete post; a standard tablet,
stamped "7 GDS 1965"; painted "B.M. 7 1307.9" 1308.071
- 43 24.1 UE 7 GDS A, about 0.5 mi S. and 0.2 mi W. along rd. from tablet, 72 ft N.
27 ft E. and 3.4 ft higher than centerline of rd. forks; in the base of the
S. side of a telephone pole, a RR. spike; painted "UE 7 A 1240.5" 1240.64
- 45 25.1 UE 7 GDS B, about 1.5 mi S. and 0.2 mi W. along county rd. from tablet,
at Beebeetown, 50 ft N., 24 ft W. and 0.2 ft lower than crossroads; on
top of N. end of an 18-in. corrugated metal culvert, a punched hole; 1325.1
- 46 26.1 UE 7 C, about 2.5 mi S. and 0.2 mi W. along rd. from tablet, 128 ft N., 28 ft
W. and 1.3 ft lower than T-rd. N., on top of W. end of 60-in. corrugated metal
culvert, a chiseled cross; painted "UE 7 C 1209.6" 1209.75
- 47 26.1 US&GS BM 61 RC 1955 1258. (Described in Line 1) 1257.590

LINE 3

NORTH ALONG NORTH PORTION OF EAST BORDER. (G.D. Scroggins, 1965; Book CV-1914)

MISSOURI VALLEY QUAD. - 109

- 1 48 0.0 UE 4 GDS A, about 0.5 mi E. along U.S. Hwy. 30 from tablet, 30 ft N. and 45
ft W. of crossroads, on top of N. end of a 54-in. concrete tube type cul- 1040.62
vert, chiseled square, painted "UE 4 A 1040.6"
- 49 1.2 UE 4 GDS AA, about 1.6 mi NE. along U.S. Hwy. 30 from tablet, 54 ft S., 47
ft SW. and 0.2 ft higher than T-rd. N., on top of SW. end of a 30-in. con-
crete tube culvert, a chiseled square; painted "UE 4 AA 1100.1" 1100.10

MISSOURI VALLEY QUADRANGLE

~~108~~ - IOWA

109

LINE 3 (Cont'd)FEETMISSOURI VALLEY QUAD. - 109

- 1 50 2.3 UE 4 GDS AB, about 2.7 mi NE. along U.S. Hwy. 30 from tablet, 48 ft SW. and 23 ft W. and 0.7 ft higher than T-rd. E., on top and in center of W. headwall of a 7 by 7 ft concrete box culvert, a chiseled square; a painted "UE 4 AB 1058.3" 1058.26

PERSIA QUAD. - 108

- 51 2.8 Logan, about 1.7 mi N. and 2.5 mi E. of; T. 79 N., R. 42 W., near the center of section 9, 73 ft N., 26 ft E. and 1.3 ft lower than crossroads; (U.S. Hwy. 30), on top and center of N. headwall of 93 by 15 ft concrete box culvert, a standard tablet stamped "8 GDS 1965"; painted "HM 8 1062.1 1062.055
- 52 4.0 UE 8 GDS A, about 1.2 mi N.-NW. along county rd. from tablet, at the centerline of a steel truss bridge over Boyer River, 22.0 ft above water head of RR. spike driven flush with wooden floor of bridge; painted "UE 8 A CENTERLINE 1046.7" 1046.66
- 53 4.9 UE 8 GDS B, about 1.8 mi N. along rd. from tablet, at the crossing of Chicago Northwestern RR. and Illinois Central RR., 21 ft S. and 1.1 ft higher than centerline of rd. below the I.C. RR. overpass, on top of NE. corner of a 4 by 6 concrete slab, a chiseled square; painted "UE 8 B 1051.6" 1051.58
- 54 5.2 Reference Mark 9 GDS 1965; 49 ft E. of tablet, 12 ft N. and 3.0 ft above centerline of rd. at Illinois Central RR. overpass, on top and in center of second offset (from ground level) of N. concrete abutment, chiseled square; painted "R.M." 1051.20
- 54 5.2 B.M. 9 GDS 1965; Logan, about 3.6 mi N. and 2.3 mi E. of, T. 80 N., R. 42 W., in the SW $\frac{1}{4}$ of sec. 33, at a RR. overpass, at milepost 479 of the Illinois Central RR., 11 ft S. and 4.2 ft above rd., 4.5 ft E. of the W. end of the S. concrete abutment on top and in center of the second offset, (from ground level) of S. concrete abutment of the RR. overpass, a standard tablet stamped "9 GDS 1965"; painted "B.M. 9 1053.4" 1053.310
- 55 6.4 UE 9 GDS A, about 0.7 mi N. along rd. from tablet, 18 ft S., 23 ft W. and 0.6 ft lower than crossroads; on top of S. end of a 24-in. corrugated metal culvert, a punched hole; painted "UE 9 A 1098.0" 1097.9

MISSOURI VALLEY QUAD. - 109

- 56 6.7 UE 9 GDS B, about 0.7 mi N. and 0.3 mi W. along rd. from tablet; 23 ft S., 12 ft E. and 1.6 ft lower than rd. at E. drive S. on top of an 18-in. corrugated metal culvert, a punched hole, painted "UE 9 B 1233.1" 1233.0
- 58 7.7 UE 9 GDS C, near S $\frac{1}{4}$ cor. between secs. 20 and 21, T. 80 N., R. 42 W., 15 ft E. and 1.3 ft lower than centerline rd. on top of E. end of a 72 in. corrugated metal culvert, a chiseled cross; painted "UE 9 C 1189.6" 1189.52
- 59 8.3 HM 10 GDS 1965; Woodbine, about 0.7 mi S. and 2.5 mi W. of, T. 80 N., R. 42 W., near N. one-sixteenth cor. between secs. 20 and 21; 118 ft S., 50 ft W. and 3.9 ft higher than crossroads; 3.0 ft N. and 3.0 ft E. from SE. cor. of an 8 by 8 ft concrete block building, housing a 2-way radio communication equipment for Harrison county rural Electric Association. 4.0 ft N. of a large crosstot pole supporting a 2-way radio antenna, in the top of a concrete post; a standard tablet, stamped 10 GDS 1965 (flush with ground); painted "B.M. 10 1345.1" 1344.988
- 60 9.0 UE 10 A, about 0.7 mi N. along rd. from tablet, 5.0 ft N., 20 ft E. and 0.9 ft lower than T-rd. W., at base of powerline pole, head of rail spike; painted "UE 10 A 1360.2" 1360.05

LINE 3 (Cont'd)MISSOURI VALLEY QUAD. - 109

- 1 61 10.0 UE 10 B, about 1.5 mi N. along rd. from tablet, at centerline of county paved rd. D and gravel rd. S., a chiseled square; painted "UE 10 B CENTERLINE" 1247.42
- 62 10.4 UE 10 GDS C, about 1.5 mi N. and 0.5 mi NW. from tablet, about 415 ft W. of county rd. D, 38 ft S. of centerline of gravel rd., on top and in center of a 8 by 8 ft concrete box culvert, a chiseled square; painted "UE 10 C 1202.2" 1202.12

MOOREHEAD QUAD. - 134

- 64 11.3 Reference mark GDS 1965, 60 ft N. of tablet, 20 ft S. and 21 ft E. of cross-roads, on top of S. end of an 18-in. corrugated metal culvert; a punched hole; painted "R.M." 1250.4
- 65 11.3 Woodbine, about 1.0 mi N. and 4.0 mi W. of, T. 80 N., R. 42 W., near center of sec. 7, 74 ft S., 30 ft E. and 0.7 ft higher than T-rd. S., 4.3 ft E. of right-of-way fence, 3.0 ft S. of a standard metal witness post; in top of a concrete post; a standard tablet stamped "11 GDS 1965"; painted "B.M. 1251.6" 1251.459
- 67 11.9 UE 11 GDS A, about 0.5 mi along rd. from tablet, at centerline of rd. at driveway S. to farmhouse; painted "UE 11 A CENTERLINE" 1120.4
- 68 12.9 UE 11 GDS B, about 1.5 mi W. along rd. from tablet, 22 ft N., 21 ft W. and 1.7 ft lower than T-rd. N., on top of W. end of 30-in. corrugated metal culvert, a punched hole; painted "UE 11 B 1115.3" 1115.06

LINE 4 :

EAST ALONG NORTH BORDER. (J.H. Betz, 1965; Book CV-1916)

BLAIR 178 NEB. - 110 NEB.

- 1 32 0.0 Modamin, 2.9 mi N. along the Chicago and North Western RR. from the station, 3.7 mi S. along the Chicago and North Western RR. from the station at River Sioux, set in the top of the W. end of the N. abutment of RR. bridge 520 over the Soldier River, 66.0 ft E. of the centerline of U.S. Hwy. 75 (measured from the center of the N. end of a hwy. bridge), 8.0 ft W. of the 5.0 ft lower than the W. rail, 1.6 ft E. of the W. end of the N. abutment. A USC&GS standard disk stamped "Z 129 1948" 1032.983
- 32 0.8 UE Z 129 A, about 0.8 mi S. along U.S. Hwy. 75 from disk; on the SE. wing-wall of concrete bridge; a metal rivet; painted 1027.5 1027.55
- 33 2.1 UE Z 129 B, about 0.8 mi S., 1.0 mi E., 0.25 mi N. of disk; at a T-rd. E.; a RR. spike set flush with bituminous pavement; painted "1027.0" 1027.01

MISSOURI VALLEY QUAD. - 109 IA-

- 34 3.3 UE Z 129 C, about 0.8 mi S. along hwy. 75, thence 1.0 mi E., thence 0.25 mi N., thence 0.5 mi E. thence 0.25 mi N., thence 0.5 mi E., along graveled rds., to a out ditch and a dim T-rd. S., on the N. end of a 36-in. concrete culvert; a chiseled square; painted "1023.7" 1023.72
- 35 4.2 Reference mark No. 1, 570 ft N. of tablet, in the center of T-rd. W., a RR. spike set flush with the pavement of hwy. 183 1045.35

LINE 4 (Cont'd)FEETMISSOURI VALLEY QUAD. - 109 IA.

- 1 36 4.3 Mondamin, 2.5 mi N. and 2.5 mi E. of; T. 80 N., R. 44 W., near $\frac{1}{4}$ cor. between secs. 9 and 16; 570 ft S. and 21 ft E. of; and 9.4 ft higher than T-rd. W. set in the headwall of a concrete culvert under hwy. 183; a standard. tablet stamped "1 JHB 1965"; painted "1054.7" 1054.780

MOOREHEAD QUAD. - 134 IA.

- 37 4.7 UE 1 A, about 0.4 mi N. of tablet; in the centerline of T-rd. E.; a RR. spike set vertically in the pavement 1053.14
- 39 5.7 UE 1 B, about 0.4 mi N. and 1.0 mi E. of tablet; 303 ft N. and 24 ft E. of and 1.3 ft lower than Y-rd. N.; on the S. end of a 24-in. metal culvert under field entrance E., a punched hole; painted 1138.3 1138.3
- 41 7.1 UE 1 C, about 0.4 mi N. and 2.4 mi E. of tablet; 14 ft N. of and 220 ft W. of T-rd. W.; on the NE. piling of bridge over "Steer Creek", a RR. spike driven flush with the top of the piling; painted "1105.4" 1105.51
- 42 7.9 Mondamin; 2.8 mi N. and 4.7 mi E. of; T. 80 N., R. 44 W.; near one-sixteenth cor. between secs. SW $\frac{1}{4}$ of sec. 11; 16.4 ft N. and 10 ft E. of T-rd. N.; set in the NE. curbing of bridge over "Steer Creek" a standard tablet stamped "2 JHB 1965"; painted 1119.9 1120.040
- 43 7.9 Reference mark no. 2-1, 60 ft SW. of tablet; on the SW. curbing of bridge over Steer Creek, a chiseled square; painted red - square is also reference mark for gaging station 1120.02
- 44 7.9 Reference mark no. 2-2, 55 ft S. of tablet; on the SE. curbing of bridge over Steer Creek" a chiseled square painted red - R.M. is chiseled square is also R.M. for gaging station 1119.99
- 45 7.9 Reference mark 2-3, 21 ft W. of tablet; on the NW. curbing of bridge over "Steer Creek", a chiseled square painted red - chiseled square is also R.M. gaging station 1120.02
- 46 8.4 UE 2 A, about 0.25 mi N. and 0.3 mi E. of tablet; in the NW. piling of a small wooden bridge; driven flush a RR. spike; painted "UE 1131.6" 1131.67
- 47 9.3 UE 2 B, about 0.25 mi N. and 1.1 mi E. along graveled rd. from tablet; at a T-rd. E., 11 ft S. and 206 ft E. of T-rd. on the SW. piling of a small steel truss bridge; a RR. spike driven flush with the top of the piling; painted; 1145.6 1145.67
- 48 9.9 UE 2 C, about 0.25 mi N. and 1.6 mi E. along rd. from tablet; 25 ft N. and 27 ft W. of and 1.2 ft lower than T-rd. N.; on the N. end of a 6 ft metal culvert; a punched hole; painted 1156.6 1156.7
- 49 10.4 Reference mark, 331 ft W. of tablet; 17 ft N. and 364 ft W. of tablet; on the N. end of a 6 ft metal culvert; a punched hole 1223.28
- 50 10.4 Magnolia, 4.5 mi N. and 0.9 mi W. of; T. 80 N., R. 43 W., in the SE. cor. of the NW $\frac{1}{4}$ of sec. 7; 38 ft N. and 33 ft W. of and 2.5 ft higher than T-rd. W.; set in pasture; 3 ft N. and 2 ft W. of fence corner, in the top of a concrete post; a standard tablet stamped "3 JHB 1965" 1243.958
- 52 11.2 UE 3 A, about 0.8 mi S. and E. along rd. from tablet, near farm of Mr. Rex Coffman; 25 ft N. and 10 ft W. and 1.3 ft lower than centerline of rd. at Coffman driveway; on the W. end of 24-in. metal culvert under field entrance to N.; a punched hole; painted 1255.3 1255.4

LINE 4 (Cont'd)

FEET

MISSOURI VALLEY QUAD. - 109

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| 1 | 53 | 11.9 | Magnolia, 3.3 mi N. of; T. 80 N., R. 43 and 44 W. in NW. cor. of sec. 17, 402 ft N. and 14 ft W. of T-rd. E. set in the SW. curbing of concrete bridge over "Allen Creek" a standard tablet stamped "4 JHB 1965"; painted 1157.2 | 1157.366 |
| | 54 | 11.9 | Reference mark, 338 ft SSE. of tablet; 64 ft N. and 16 ft E. of T-rd. E.; on the E. headwall of a 10 by 12 concrete box culvert; a chiseled square | 1153.36 |
| | 56 | 12.8 | UE 4 A, about 0.85 mi E. along graveled rd. from tablet; 18 ft S. center of rd. at low spot; on the S. end of a 24-in. metal culvert; a punched hole; painted 1259.9 | 1260.0 |
| | 59 | 13.3 | UE 4 B, about 1.3 mi E. along graveled rd. from tablet; 19 ft N. of and 24 ft E. and 4.5 ft lower than crossroads on the E. end of a 36-in. metal culvert, a punched hole; painted 1227.8 | 1228.0 |
| | 60 | 13.9 | UE 4 C, about 1.9 mi E. along graveled rd. from tablet; 12 ft S. and 197 ft E. of crossroads; on the SE. piling of a steel truss bridge over "Huffman Creek" a RR. spike set vertically in piling; painted 1152.1 | 1152.28 |
| | 62 | 14.6 | UE 4 D, about 2.6 mi E. along rd. from tablet; at a steel truss bridge; on the SW. piling, a RR. spike set flush with the top of the piling; painted 1175.6 | 1175.81 |
| | 64 | 15.1 | Magnolia; 3.3 mi N. and 2.4 mi E. of; T. 80 N., R. 43 W., near the NW. cor. of sec. 14; 71 ft N. and 40 ft E. of and 7.2 ft higher than T-rd. E.; 35 ft N. and 2 ft E. of fence cor.; 3 ft E. of power pole; in the top of a concrete post; a standard tablet stamped "5 JHB 1965"; painted 1232.7 | 1232.876 |
| | 66 | 15.8 | UE 5 A, about .07 mi NE. along rd. from tablet; at a T-rd. E.; 31 ft S., and 50 ft E. of and 1.3 ft lower than T-rd. E.; in the W. side of a 30-in. elm tree; a RR. spike | 1142.49 |

MOOREHEAD QUAD. - 134

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| 67 | 15.8 | UE 5 B, about 1.3 mi NE. along graveled rd. from tablet, 20 ft N. and 80 ft E. of; and 4.7 ft lower than T-rd. S. on the NW. end of a 72-in. metal culvert; a punched hole; painted 1131.8 | 1132.0 |
| 68 | 16.5 | UE 11 GDS B, about 1.5 mi W. along rd. from tablet, 22 ft N., 21 ft W. and 1.7 ft lower than T-rd. N. on top of W. end of a 30-in. corrugated metal culvert, a punched hole | 1115.06 |