

THIRD ORDER LEVELS
SEA LEVEL DATUM OF 1929

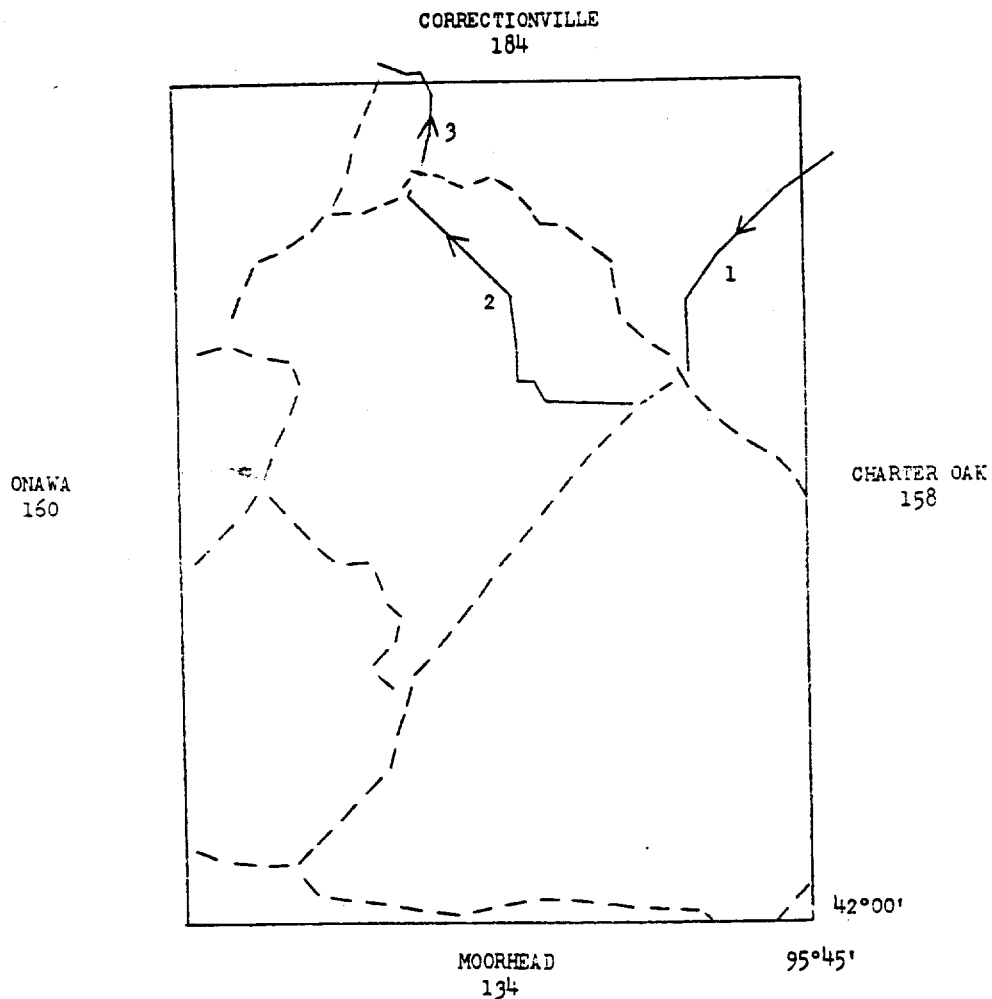
Final Adjustment of 1969

Monona and Woodbury Counties

Edition of 3/5/69
PR: AKH/PH/kw

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

MAPLETON QUADRANGLE
159 - IOWA
N4200-W9545/15
Diagram NK 15-4
Ft. Dodge, Iowa



USC&GS LEVELING

A = Quadrangle No. 420953

Based on Supplemental Adjustment of 1936, 1937 and 1952

159A

2
MAPLETON QUADRANGLE
159 - IOWA

FEET

LINE 1

J. H. Tyndale, 1968; Book CV-2324

CHARTER OAK QUAD. - 158

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|-----------|---|----------|
| 1 37 19.1 | UE; center of Co. Hwy. "B" at E.-W. fence, near N. limits of Danbury, cor. secs. 21, 22, 27 and 28, T. 86 N., R. 41 W.; copper nail and washer, painted "UE CENTERLINE" | 1182.6 |
| 38 19.9 | Center of cross streets in Danbury (no street names), 205 ft N. of post office | 1161.9 |
| 38 19.9 | Reference mark, 171 ft N. of tablet; 32 ft S., 32 ft W. of cross streets; top of water hydrant | 1163.82 |
| 39 19.9 | In Danbury; in NW $\frac{1}{4}$ sec. 27, T. 86 N., R. 41 W.; 205 ft S., 42 ft W. and 0.2 ft lower than cross streets (no street names); 7.5 ft E. of E. face post office 14 ft W. of curbing; 6 ft SSW. of mail box; 3 ft E. of steel flagpole; on 13 ft copper coated rod inside 6 in. tile and 1 in. below lawn surface; standard tablet stamped "29 T 1968 1162" | 1161.655 |
| 40 20.5 | UE; center of Iowa 175 at N.-S. fence (W. city limit of Danbury) $\pm$ 500 N. of S. sixteenth cor. secs. 27 and 28, T. 86 N., R. 41 W.; copper nail and washer painted square, painted "UE Centerline" | 1146.6 |

MAPLETON QUAD. - 159

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| 41 21.9 | UE; center of T-rd. NW. and W. (Iowa 175 NE.-SW), $\frac{1}{4}$ cor. secs. 32 and 33, T. 86 N., R. 41 W.; copper nail and washer, painted square, painted "UE Centerline" | 1143.29 |
| 42 23.0 | Mapleton, 3.25 mi N. and 1.5 mi E. of; 60 ft SE. (right angle) center of Iowa Hwy. 175; 80 ft SW. along hwy. from rd. N. and 4 ft lower; 15 ft NE. along hwy. from T-fence E. and steel witness sign; 1 ft NW. of SE. right-of-way fence, on 10 ft copper coated steel rod inside 6 in. concrete tile; standard tablet stamped "30 T 1968 1144" | 1143.672 |
| 43 23.2 | Reference mark, 930 ft SW. along Iowa Hwy. 175 from tablet; 26 ft NW. (right angle to hwy.), 50 ft NE. along hwy. from T-drive NW. to house; center 2.5 ft concrete box culvert; 6 ft deep; center NW. concrete headwall; chiseled square, painted "RM" | 1141.92 |
| 44 24.5 | UE; center of T-rd. N. (Iowa Hwy. 175 NE.-SW.), N. sixteenth cor. secs. 7 and 12, T. 85 N., Rs. 41 and 42 W.; copper nail and washer and painted square; painted "UE Centerline" (at intersection concrete slab expansion joints) | 1149.94 |
| 45 25.4 | UE; center of Iowa Hwy. 175 at fence W. (up hill); 26 ft E. of T-drive W., then NW. to house; near quarter cor. secs. 12 and 17, T. 85 N., R. 42 W.; copper nail and washer in painted square, painted "UE Centerline" | 1131.66 |
| 46 26.2 | UE, center of T-rd. N. (Iowa 175 N. and E.; Iowa 141 E.-W.), near center S $\frac{1}{2}$ sec. 17, T. 85 N., R. 42 W.; copper nail and washer in painted square, painted "UE Centerline" | 1118.36 |
| 47 27.2 | At Mapleton, at the center of the city park, at a World War Memorial supporting a 75 millimeter gun barrel, in the center of the N. face of the concrete pyramidal base and 2 ft above the ground; a standard disk stamped "MAPLETON 1934" and set vertically | 1157.314 |

F E E T

LINE 2

J. H. Tyndale. 1968; Book CV-2324

MAPLETON QUAD. - 159

1 50	0.0	2.1 mi SW. along State Hwy. 175 from the Chicago & North Western Ry. station at Mapleton, at a 40 by 24 ft steel and concrete bridge over a drainage ditch, and in the top of the center of the NW. curb; a standard disk, stamped "B 159 RESET 1954" (NOTE: This bench mark was established and its elevation determined by engineers of the State Hwy. commission in June 1955.	1114.109
50	0.8	UE; center of T-rd. N., cor. secs. 22, 23, 26 and 27, T. 85 N., R. 42 W.; painted "UE Centerline"	1108.7
51	1.3	UE; center of T-rd. S., quarter cor. secs. 22 and 27, T. 85 N., R. 42 W.; painted "UE Centerline"	1200.7
53	2.2	Reference mark, 120 ft N. of tablet; 45 ft S. and 35 ft E. of T-rd. NNW., W. side power pole; rail spike, painted "RM"	1340.92
54	2.2	Mapleton, 0.5 mi S. and 3 mi W. of; 150 ft E., 35 ft N. and 5.2 ft lower than T-rd. NNW., near quarter cor. secs. 21 and 28, T. 85 N., R. 42 W.; about 60 ft NE. of steel witness sign; 1 ft S. of N. right-of-way fence; on 10 ft copper coated steel rod inside 6 in. concrete tile; standard tablet stamped "31 T 1968 1335"	1334.832
56	3.3	UE; 41 ft N., 36 ft E. and 2.2 ft higher than T-rd. N., quarter cor. secs. 20 and 21, T. 85 N., R. 42 W.; W. side power pole; rail spike; painted "UE"	1306.91
57	3.9	UE; 2 ft S., 24 ft W. and 1.0 ft lower than center of rd. at fence W., near cor. secs. 16, 17, 20 and 21, T. 85 N., R. 42 W.; 10 ft N. of center of drive W.; 2 ft corrugated steel drive culvert, painted "UE"	1354.4
59	4.4	UE; center of T-rd. N. (rd. S. offset), cor. secs. 8, 9, 16 and 17, T. 85 N., R. 42 W.; painted "UE Centerline"	1392.4
59	5.4	USC&GS Triangulation Station DALE is located about 5 mi WNW. of Mapleton and 5 mi SE. of Smithland on the summit of a round terraced hill just N. of some farm buildings, station is 500 ft W. of fenceline and 280 ft N. of a fenceline the mark is about 8 in. underground and the disk is stamped "DALE 1950"	1429.909
61	6.2	UE; 45 ft SE. along rd., 16 ft NE. (right angle to rd.), and 0.2 ft lower than center of rd. at old T-rd. S. (over grown, unused), near center sec. 8, T. 85 N., R. 42 W., 3.5 ft corrugated steel culvert; center N. concrete headwall, chiseled square, painted "UE"	1263.71
62	6.9	UE; center of rd. NW.-SE. at rd. E., near cor. secs. 5, 6, 7 and 8, T. 85 N., R. 42 W.; painted "UE Centerline"	1205.7
64	8.2	UE; 15 ft N., 30 ft W. (along Iowa Hwy. 141), and 0.8 ft higher than T-rd. S., 25 ft E. of rd. W.; ±500 ft N. of center N ₂ sec. 6, T. 85 N., R. 42 W.; 3 x 3 ft concrete box culvert; center concrete headwall; chiseled square, painted "UE"	1197.84
65	8.7	Center of Iowa Hwy. 141 at E. abutment grade separation (141 over RR.)	1135.4
65	8.8	1.2 mi S. along the Illinois Central RR. from the station at Smithland, thence 1.0 mi E. along the Chicago, Milwaukee, St. Paul & Pacific RR.; 10 poles E. of MP 51, at the overhead crossing of State Hwy. 141, 69 ft SW. of the center of the hwy., 50 ft SE. of the center of the track, 4.5 ft SW. of a power-transmission line pole, at the right-of-way fence, 4 ft NW. of the fence cor. and about 2½ ft lower than the track; a standard disk, stamped "X 91 1935", and set in the top of a concrete post	1107.964

4
MAPLETON QUADRANGLE
159 - IOWA

FEET

LINE 3

J. H. Tyndale, 1968; Book CV-2324

MAPLETON QUAD. - 159

1 66	0.0	"X 91 1935" (Described in Line 2)	1107.964
66	0.8	UE; center of T-rd. W., ± 700 ft E. of cor. secs. 30, 31, 25 and 36, T. 86 N., Rs. 42 and 43 W.; painted "UE Centerline"	1118.4
67	1.4	UE; center of T-rd. W., near center NW $\frac{1}{4}$ sec. 30, T. 86 N., R. 42 W.; painted "UE Centerline"	1105.6
68	2.6	Reference mark, 107 ft NW. of tablet; 32 ft N., 320 ft E. of T-rd. S., W. side power pole; rail spike, painted "RMT"	1128.39
69	2.6	Oto, 2.25 mi S. of; 31 ft S., 375 ft E. and 2.2 ft higher than T-rd. S., near center NW $\frac{1}{4}$ sec. 19, T. 86 N., R. 42 W.; 107 ft SE. of steel witness sign; 1 ft N. of S. right-of-way fence; on 10 ft copper coated steel rod inside 6 in. concrete tile; standard tablet stamped "32 T 1968 1128"	1128.015

CORRECTIONVILLE QUAD. - 184

70	3.1	UE; SE. end wood deck steel truss bridge over Paruell Creek; in NE $\frac{1}{4}$ sec. 24, T. 86 N., R. 43 W.; copper nail and washer, in painted circle; painted "UE"	1078.32
71	4.3	1.8 mi N. along the old roadbed of the abandoned I. C. RR. from the site of the former station at Smithland, 60 ft W. of the center of the old roadbed, at a 2 x 3 ft concrete box culvert under State Hwy. 31, in the center of the top of the E. concrete headwall, 18 ft E. of the center of the hwy., and about 1 ft lower than the hwy.; a standard disk stamped "L 92 1935"	1096.136