

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

TRIPOLI QUADRANGLE
217 - IOWA
N4245-W9215/15
DIAGRAM NK 15-5
WATERLOO

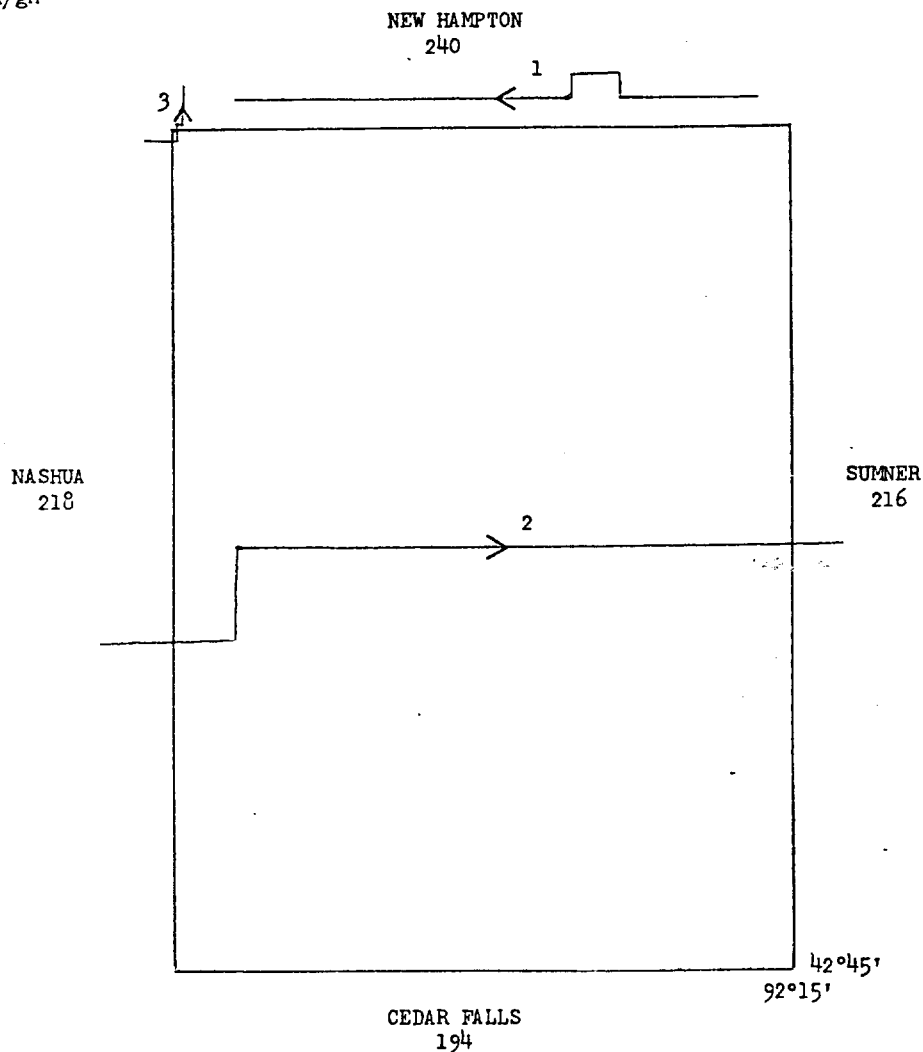
THIRD ORDER LEVELS
SEA LEVEL DATUM OF 1929

FINAL ADJUSTMENT OF 1970

Bremer, and Chickasaw Counties

Edition of 4/28/70

PR:ADP/ph/gh



USC&GS VERTICAL CONTROL DATA
A. Quadrangle 420921

217 B

LINE 1

FEET

C. L. Crutchfield, 1969; Book CV 2490

NEW HAMPTON QUAD. - 240

- 1 35 0.0 Boyd, 0.5 mi SE. along the Chicago, Great Western RR. from station at;
0.1 mi SE. of milepost 150, 411 ft SE. of the crossing of a rd., 42.6 ft
NE. of the NE. rail, 7 ft E. of a pole, and 4.6 ft SW. of the right-of-way
fence; USC&GS standard disk stamped "S 38 1934" andset in the top of a concrete
post projecting about 2 in. above the ground 1120.91
- 35 0.1 UE S A, near cor. secs. 27, 28, 33 and 34, T. 95 N., R. 12 W.; a chiseled
square, center of T-rd. S., top of a concrete slab; painted "UE S A" 1122.7
- 36 1.1 UE S B, near cor. secs. 28, 29, 32 and 33, T. 95 N., R. 12 W., center of
crossroads; a RR. spike, painted "UE S B" 1139.4
- 37 1.1 Boyd, 2.0 mi W. of, near cor. secs. 29, 30, 31 and 32, T. 95 N., R. 12 W.,
10 ft S. and 294 ft W. and .02 ft lower than crossroads, top of the SE. corner
of a concrete bridge wheelguard; a standard tablet stamped "39 CLC 1969" 1103.498
- 38 2.2 Reference mark, 20 ft N. and 10 ft W. and .051 ft higher than tablet, top of
the NW. concrete bridge wheelguard; a chiseled square, painted "RM" 1103.55
- 39 3.1 UE 39 A, 0.9 mi W. along a co. hwy. from tablet, 32 ft E. and 0.1 ft higher
than T-rd. E.; center of hwy. at N.-S. fence line; a RR. spike, painted "UE
39 A" 1131.51
- 40 4.1 UE 39 B, near center sec. 25, T. 95 N., R. 13 W., 38 ft S. and 16 ft W. and
3.9 ft lower than T-field rds., top of the W. end of a metal corrugated
culvert; a punched hole, painted "UE 39 B" 1110.16
- 41 4.6 UE 39 C, near the center of secs. 25 and 26, T. 95 N., R. 13 W., 49 ft NW. and
22 ft NE. and 2.9 ft lower than T-rd. NW., top of the NE. end of a concrete
tile culvert; a chiseled square, painted "UE 39 C" 1093.66
- 42 4.7 REBAR 112, 0.1 mi N. and 10 ft E. of center of T-rd. N., on top of highest
ridge in vicinity, T. 95 N., R. 13 W., about 500 ft N. of quarter cor. between
secs. 25 and 26, an iron rebar driven into shoulder of rd. 1116.880
- 43 5.3 Boyd, 4.0 mi W. of; near cor. secs. 25, 26, 35 and 36, T. 95 N., R. 13 W., 260
ft S. of a T-rd. SE.; 9 ft N. and 15 ft W. and 1.4 ft lower than center of
N.-S. rd. at fence line W., top of the W. end of a large concrete tile
culvert; a standard tablet stamped "40 CLC 1969 1090" 1089.545
- 45 5.3 Reference mark, 30 ft E. and .048 ft lower than tablet, top of the E. end of a
large concrete tile culvert; a chiseled square, painted "RM" 1089.50
- 46 6.2 UE 40 A, 0.8 mi W. along a county rd. from tablet, center of concrete bridge
floor over a large drain; a chiseled square, painted "UE 40 A" 1069.82
- 47 7.4 UE 40 B, 2.0 mi W. along a county rd. from tablet, 40 ft S. and 19 ft W.
and 4.4 ft lower than T-rd. S., top of the W. end of a metal corrugated culvert;
a punched hole, painted "UE 40 B" 1053.12
- 48 8.0 Boyd, 6.6 mi W. of, 0.1 mi W. of the center of secs. 28 and 33, Tps. 94 and
95 N., R. 13 W., 13 ft N. and 95 ft W. and 0.6 ft higher than center of bridge
over Wapsipinicon River, top of the NW. end; a standard tablet stamped "41 CLC
1969 1063" 1063.144
- 49 8.0 Reference mark, 26 ft S. and normal to tablet, top of the SW. end; a chiseled
square, painted "RM" 1063.14
- 50 8.4 UE 41 A, 0.4 mi W. along a co. rd. from tablet, 50 ft N. and 3.3 ft lower
than T-rds. on the S. side of a corner fence post; a RR. spike, painted "UE
41 A" 1083.47

TRIPOLI

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QUADRANGLE
217 - IOWA

LINE 1 (Cont'd)NEW HAMPTON QUAD. - 240FEET

- 1 51 9.5 UE 41 B, 1.5 mi W. along a co. rd. from tablet, 17 ft N. and 320 ft W. and 5.5 ft lower than T-rd. N., top of the N. end of a metal corrugated culvert; a punched hole painted "UE 41 B" 1110.44
- 52 10.4 UE 41 C, 2.4 mi W. along a co. rd. from tablet, 25 ft S. and 29 ft W. and 2.5 ft lower than crossroads, top of the W. end of a concrete tile culvert; a chiseled square, painted "UE 41 C" 1135.60
- 53 11.4 UE 41 D, 3.4 mi W. along a co. rd. from tablet, center of crossroads; a RR. spike, painted "UE 41 D" 1118.94
- 54 11.7 Ionia, 1.7 mi S. and 0.3 mi W. of, 0.3 mi W. of the cor. secs. 25, 26, 35 and 36, T. 95 N., R. 14 W., 35 ft S. and 6 ft E. and 1.6 ft lower than T-field entrance S., 1 ft N. of a witness sign; a copper coated steel rod driven to a depth of 10 ft; a standard brass tablet crimped to rod, set flush with the ground and stamped "42 CLC 1969 1130" 1129.509
- 55 12.4 UE 42 A, 0.6 mi W. along a co. rd. from tablet, 36 ft N. and 35 ft E. and 2.6 ft lower than crossroads, on the SW. side of a power pole; RR. spike, painted "UE 42 A" 1098.05
- 56 13.4 UE 42 B, 0.6 mi W. and 1.0 mi N. along a co. rd. from tablet, 32 ft N. and 16 ft W. and 3.2 ft lower than crossroads, top of the W. end of a metal corrugated culvert; a punched hole, painted "UE 48 B" 1108.84

LINE 2C. L. Crutchfield, 1969; Book CV 2490NASHUA QUAD. - 218

- 2 2 0.0 At Plainfield, Bremer County, 342 yards N. of the Illinois Central RR. station, 35 yards S. of the switch at the S. end of a sidetrack, and 39.5 ft E. of the E. rail of the main track; USC&GS standard disk stamped "N 39 1934" and set in the top of a concrete post projecting 3 in. above ground 942.065
- 2 0.9 T. 93 N., R. 14 W., NE. cor. sec. 29, 0.5 mi E. of Plainfield, on Hwy. 188 bridge over Cedar River, on top of right downstream wingwall on SW. end of wingwall; a chiseled square 937.24
- 3 1.0 T. 93 N., R. 14 W., NE. cor. sec. 29, top of the NE. concrete wingwall; a chiseled cross and 0.3 ft higher than center of bridge over Cedar River 937.18
- 4 1.6 T. 93 N., R. 14 W., SW. cor. sec. 21, 1 mi E. of E. edge of Plainfield, and 0.25 mi E. of Hwy. 188 bridge over Cedar River, on culvert under N.-S. gravel rd., at jct. of gravel rd. and Hwy. 188; chiseled square on top of W. end of 6 ft diameter concrete pipe culvert, 3.2 ft lower than crossroads 937.72
- 5 2.3 TBM, near cor. secs. 21, 22, 27 and 28, T. 93 N., R. 14 W., 25 ft S. and 39 ft W. and 1.6 ft lower than crossroads, in the center of the S. headwall of a concrete box culvert; a brass plug and washer, painted "TBM" 948.85

TRIPOLI QUAD. - 217

- 6 3.2 Horton, 0.1 mi W. of; 0.1 mi W. of the cor. secs. 22, 23, 26 and 27, T. 93 N., R. 14 W., 16 ft N. and 27 ft W. and 0.7 ft higher than center of bridge over Hortee Creek, top of the NW. wingwall; a standard tablet stamped "43 CLC 1969 957" 956.673
- 7 3.2 Reference mark, 16 ft S. and 54 ft E. and normal to tablet, top of the SE. wingwall; a chiseled square, painted "RM" 956.64
- 8 3.4 UE 43 A, about 900 ft NE. of tablet, center of concrete bridge floor over Hortee Creek, over N.-S. co. Hwy. "B", 1.7 ft higher than crossroads; a chiseled square, painted "UE 43 A" 955.94

<u>LINE 2 (Cont'd)</u>	<u>TRIPOLI QUAD. - 240</u>	<u>FEET</u>
2 9 4.3 UE 43 B, near cor. secs. 14, 15, 22 and 23, T. 93 N., R. 14 W., center of crossroads; a rail spike, painted "UE 43 B"		1027.05
10 5.3 UE 43 C, near cor. secs. 10, 11, 14 and 15, T. 93 N., R. 14 W., center of crossroads; a rail spike, painted "UE 43 C"		1043.89
11 5.9 Horton, 2.0 mi N. and 0.6 mi E. of, 0.6 mi E. of the cor. secs. 10, 11, 14 and 15, T. 93 N., R. 14 W., 11 ft S. and normal to center of E.-W. gravel at a small drain crossing, in the center of the S. headwall of a concrete box culvert; a standard tablet stamped "44 CLC 1969 978"		978.159
12 5.9 Reference mark, 21 ft N. and normal to tablet, in the center of the N. headwall of a concrete box culvert; a chiseled square, painted "RM"		978.21
13 6.3 UE 44 A, 0.4 mi E. along a co. rd. from tablet, 30 ft S. and 21 ft E. and 2.5 ft lower than crossroads, top of the E. end of a metal corrugated culvert; a punched hole, painted "UE 44 A"		977.26
14 7.3 Horton, 2.0 mi N. and 2.0 mi E. of, near cor. secs. 7, 12, 13 and 18, T. 93 N., Rs. 13 and 14 W., 58 ft S. and 21 ft E. and 3.2 ft lower than crossroads, top of the E. end of a large concrete tile culvert; a standard tablet stamped "45 CLC 1969 1055"		1055.482
15 7.3 Reference mark, 41 ft W. and 0.6 ft higher than tablet, top of the W. end of a concrete tile culvert; a chiseled square, painted "RM"		1056.05
16 8.3 UE 45 A, 1.0 mi E. along a co. rd. from tablet, 16 ft N. and 25 ft E. and 2.5 ft lower than crossroads, top of the N. end of a concrete tile culvert; a chiseled square, painted "UE 45 A"		1051.09
17 9.3 UE 45 B, 2.0 mi E. along a co. rd. from tablet, center of crossroads; a RR. spike, painted "UE 45 B"		1081.88
18 10.3 Horton, 2.0 mi N. and 5.0 mi E. of; near cor. secs. 9, 10, 15 and 16, T. 93 N., R. 13 W., 11 ft N. and 32 ft W. and 0.3 ft higher than crossroads, in the center of the N. headwall of a concrete box culvert; a standard tablet stamped "46 CLC 1969 1071"		1071.046
19 10.3 Reference mark, 22 ft S. and 0.1 ft lower than tablet, in the center of the S. headwall of a concrete box culvert; a chiseled square, painted "RM"		1070.96
20 11.4 UE 46 A, 1.0 mi E. along a co. rd. from tablet, 13 ft S. and 290 ft E. and 0.4 ft lower than T-rds., on the S. end of a large metal corrugated culvert; a chiseled cross, painted "UE 46 A"		1062.35
21 12.3 UE 46 B, 2.0 mi E. along a co. rd. from tablet, 5 ft S. and 43 ft W. and 2.8 ft lower than the jct. of U.S. Hwy. 63 and State Hwy. 334 E., on the S. end of a metal corrugated culvert; a punched hole, painted "UE 46 B"		1071.61
22 13.0 Frederika, 0.5 mi S. and 0.8 mi W. of, 0.7 mi E. of the cor. secs. 11, 12, 13 and 14, T. 93 N., R. 13 W., 18 ft N. and 0.3 ft lower than center of State Hwy. 334 at a small drain crossing, in the center of the N. headwall of a concrete box culvert; a standard tablet stamped "47 CLC 1969 1033"		1032.709
23 13.0 Reference mark, 36 ft S. and 25 ft E. and 0.5 ft lower than tablet, in the center of the S. headwall of a concrete box culvert; a chiseled square, painted "RM"		1032.22
24 13.8 UE 47 A, T. 93 N., R. 12 W., NW. cor. sec. 18, about 0.25 mi S. of Frederika, Iowa, at Hwy. 334, bridge over Wapsipinicon River, on left downstream wingwall, at downstream end; chiseled square		1026.82
25 14.8 UE 47 B, near cor. secs. 7, 8, 17 and 18, T. 93 N., R. 12 W., 21 ft S. and 11 ft W. and 0.9 ft higher than T-rd. E., top of the S. corner of a concrete box culvert; a chiseled square, painted "UE 47 B"		1031.68

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TRIPOLI QUADRANGLE
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LINE 2 (Cont'd)

TRIPOLI QUAD. - 217

FEET

- 2 26 15.8 UE 47 C, near cor. secs. 8, 9, 16 and 17, 17 ft S. and 61 ft E. and 2.2 ft lower than center of crossroads, in the center of the S. headwall of a concrete box culvert; a chiseled cross; painted "UE 47 C" (established by USGS Water Resources; Elev. by USGS Topographic Branch) 1049.52
- 27 16.1 Fredericka, 0.5 mi S. and 1.8 mi E. of, 0.3 mi E. of the cor. secs. 8, 9, 16 and 17, T. 93 N., R. 12 W., 14 ft N. and 1.4 ft lower than center of E.-W. county Hwy. "K" at a small drain crossing, in the center of the N. headwall of a concrete box culvert; a standard tablet stamped "48 CLC 1969 1067" 1067.376
- 28 16.8 UE 48 A, 0.7 mi E. along a co. rd. from tablet, 24 ft N. and 18 ft W. and 2.6 ft lower than crossroads, top of the W. end of a metal corrugated culvert; a punched hole, painted "UE 48 A" 1073.71

SUMNER QUAD. - 216

- 29 18.0 UE 48 B, 1.9 mi E. along a co. rd. from tablet, 13 ft N. and 23 ft E. and 2.3 ft lower than center of a small wooden bridge over E.-W. gravel rd. at an overflow bridge for the main creek, top of the NE. end of the N. 12 x 12 wooden bridge support; a RR. spike, painted "UE 48 B" 1014.59
- 30 18.3 UE 48 C, 2.2 mi E. along a co. rd. from tablet, 19 ft N. and 27 ft W. and 2.3 ft lower than T-rd. N., top of the NW. end of a large metal corrugated culvert; a punched hole, painted "UE 48 C" 1016.02

LINE 3

C. L. Crutchfield, 1969; Book CV 2494

NASHUA QUAD. - 218

- 2 37 2.2 UE 18 A, 1.0 mi E. along a co. rd. from tablet, 27 ft S. and 16 ft E. and 1.5 ft lower than crossroads, top of the E. end of a metal corrugated culvert, a punched hole, painted "UE 18 A" 993.24
- 38 2.5 UE centerline, 1.3 mi E. along co. rd. from tablet, center of a wooden bridge over Little Cedar River; a rail spike, painted "UE centerline" 973.7
- 39 2.9 UE 18 B, 1.6 mi E. along a co. rd. from tablet, 29 ft S. and 17 ft W. and 6.2 ft lower than crossroads, top of the W. end of a metal corrugated culvert; a punched hole, painted "UE 18 B" 981.37

NEW HAMPTON QUAD. - 240

- 40 3.9 UE 18 C, 0.3 mi S. of cor. secs. 27, 28, 33 and 34, T. 95 N., R. 14 W., 27 ft SE. and 11 ft E. and 1.8 ft lower than T-field entrance SE. leading to a field, top of the NE. end of a metal corrugated culvert; a punched hole, painted "UE 18 C" 1011.34