

THIRD-ORDER LEVELS
SEA LEVEL DATUM OF 1929

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

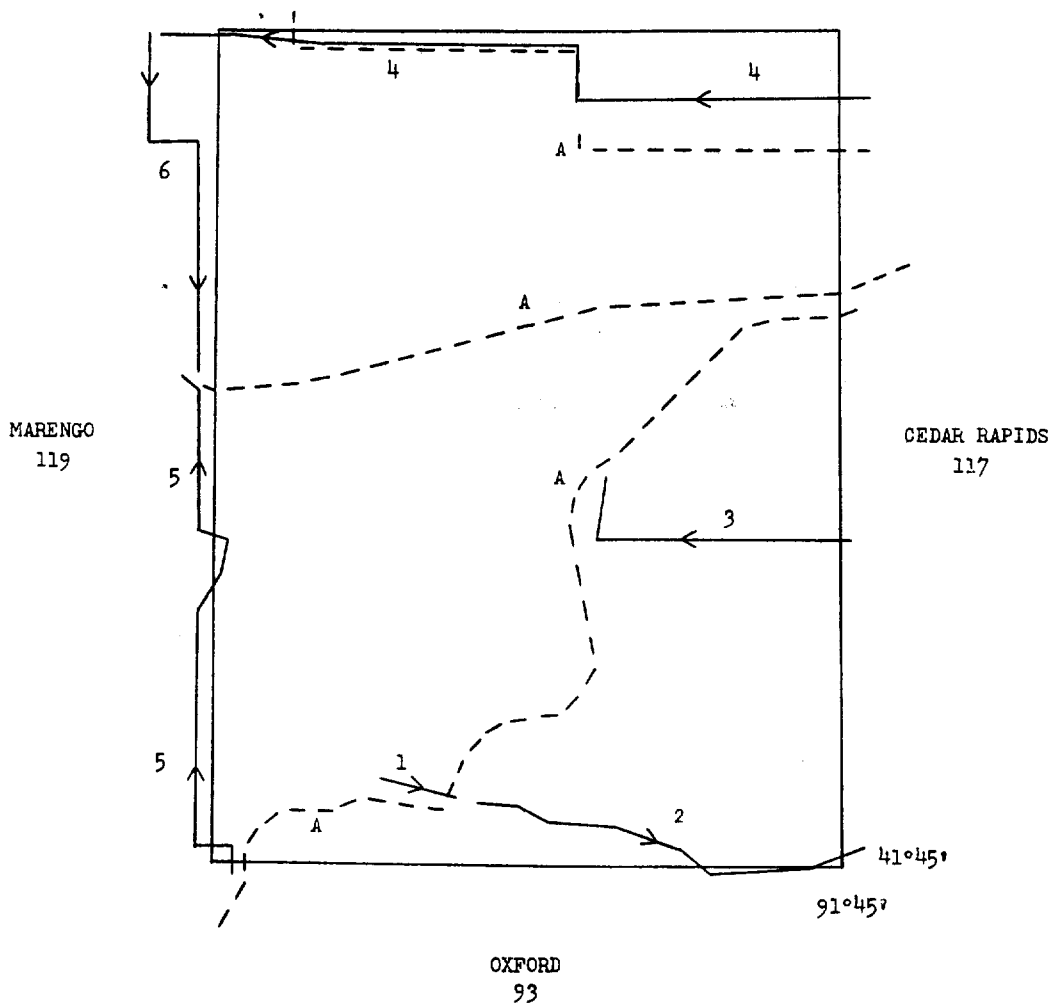
AMANA QUADRANGLE
118 - Iowa
N4145-W9145/15
Diagram NK 15-9
Davenport, Iowa-Ill.

Benton, Linn, Iowa and
Johnson Counties

Edition of 10/11/66

PR: ADP/ct

SHELLSBURG
143



USC&GS LEVELING

A. No. 410914

118 D

Feet

LINE 1

EAST ALONG WEST HALF SOUTH BORDER (By C. D. Lien, 1966, Book CV-2044)

AMANA QUAD. 118

- 1 18 0.0 South Amana, 1.5 mi E. along the Chicago, Milwaukee, St. Paul and Pacific RR. from the station at, at milepost 62, at a public rd. crossing, 42 ft N. of the center of the track, 21 ft E. of the center of the rd., 3 ft E. and 3 ft S. of a right-of-way fence cor., and 1 ft lower than the rail; a USC&GS standard disk stamped "L 85 1934" and set in top of a concrete post. 818.965
- 0.2 UE, T. 80 N., R. 9 W., near the NW. sixteenth cor. of sec. 6; Homestead, 3.0 mi W. along Hwy. 6, 15 ft S., 99 ft W. from T-rd. S., 0.5 ft lower than rd. at T-rd. S.; a chiseled square on S. end of concrete culvert, painted "769.7" 769.69
- > 19 1.0 UE, T. 80 N., R. 7 W., near the quarter cor. between secs. 5 and 6, Homestead, 2.25 mi W. along Hwy. 6, 15 ft S., 82 ft W. from T-rd. S., 0.5 ft lower than rd. at T-rd. S., a chiseled square in the S. end of a concrete culvert, painted "757.2" 757.20
- > 21 2.1 Middle Amana, 1.5 mi S. along the C. M. St. P. & P. RR. from, 4 poles SW. of milepost 64, at the S. end of the base of the E. abutment of the Chicago, Rock Island and Pacific RR. overhead bridge, at waterway bridge No. I-150, and in the S. end of the cover slab; a USC&GS standard disk stamped "K 85 RESET 1943" Note: This BM was established and its elevation determined by engineers of the C. M. St. P. & P. RR. in the fall of 1943. Elev. by USGS 745.358
USC&GS elevation of 745.238 for K 85 RESET 1943 could not be reconciled.

LINE 2

EAST ALONG EAST HALF SOUTH BORDER (By C. D. Lien, 1966, Book CV-2044)

AMANA QUAD. 118

- 1 27 0.0 USC&GS K 85 RESET 1943 (Described in Line 1) 745.358
- 1.0 UE, 0.99 mi E. along Hwy. 6 from tablet; a copper nail and washer in center of Hwy. at T-rd. S., painted "810.2" 810.32
- 28 1.5 T. 80 N., R. 9 W., near SE. cor. sec. 3, in Homestead, 1.5 mi E. along Hwy. from BM K 85 RESET 1943, 13 ft N. and 133 ft E. of junction Main St. and Hwy. 6; chiseled square on N. end of concrete culvert, painted "841.4" 841.49
- > 30 2.1 UE, T. 80 N., R. 9 W., near the S. sixteenth cor. of secs. 2 and 3; Homestead, 0.01 mi N. of post office, 40 ft S., 36 ft E. of Hwy. 6 and street S., a chiseled square on a concrete culvert, painted "852.5" 852.61
- 31 2.8 T. 80 N., R. 9 W., near the E. sixteenth cor. of secs. 2 and 11; Homestead, 0.75 mi E. along Hwy. 6, 41 ft S., 47 ft E. of center of Hwy. 6, at gravel rd. S.; a standard disk in a concrete post extending 4 in. above ground, stamped "2 CDL 1966" 857.792
- 32 2.8 Reference mark, 20 ft S., 300 ft W. from tablet, a chiseled square in a concrete culvert 857.82
- 3.5 UE, 0.5 mi E. along Hwy. 6 from tablet at private drive N. to microwave tower; a copper nail and washer in center of Hwy., painted "883.0" 883.10

LINE 2 (Cont'd)

AMANA QUAD. 118

Feet

- | | | | | |
|----|-----|-----|---|--------|
| 1 | 33 | 4.2 | UE, 1.2 mi E. along Hwy. 6 from tablet, a copper nail and washer in center of Hwy. 6 at gravel rd. crossing, painted "876.4" | 876.58 |
| 34 | 5.0 | | UE, T. 80 N., R. 8 W., near the center of sec. 7; Homestead, 2.75 mi E. along Hwy. 6, 22 ft S., 10 ft W. of gravel rd. S. and fenceline N., a punched hole in a metal culvert, 1.4 ft lower than rd. at T-rd. S., painted "865.2" | 865.37 |

OXFORD QUAD. 93

- | | | | | |
|----|-----|---|--|---------|
| 36 | 5.8 | Reference mark, 200 ft W. along right-of-way fence from tablet, a rail spike in telephone pole | | 869.54 |
| | 5.8 | T. 80 N., R. 8 W., near SW. cor. sec. 8, Homestead, 3.62 mi E. along Hwy. 6, 58 ft S., 48 ft W. of T-rd. N., 1 ft N. of right-of-way fence, 2 ft E. of telephone pole, 1.5 ft lower than T-rd. N., a standard tablet in a concrete post stamped "3 CDL 1966" | | 868.824 |
| 37 | 6.3 | UE, 0.5 mi E. along rd. from tablet, 12 ft S., 33 ft E. of field rd. S., a rail spike in telephone pole, painted "851.1" | | 851.25 |
| 38 | 6.4 | UE, T. 80 N., R. 8 W., near NE. cor. of sec. 16, Homestead, 3.62 mi E. along Hwy. 6, thence 1.0 mi NE. along rd., 57 ft S., 16 ft E. from rd. E, a reinforcing rod in E. headwall of concrete culvert, painted "859.2" | | 859.41 |
| 39 | 7.0 | T. 80 N., R. 8 W., near SW. cor. sec. 10; Homestead, 3.62 mi E. along Hwy. 6, thence 1.6 mi E. along rd., 49 ft S. of center of rd. at bend, 1 ft N. of right-of-way fence, a standard tablet in a concrete post stamped "4 CDL 1966" | | 858.341 |
| 40 | 7.1 | Reference mark, 0.04 mi E. along gravel rd. from tablet, 30 ft N. of center of rd., a rail spike in fence post | | 853.73 |
| 41 | 8.0 | UE, T. 80 N., R. 8 W., near the S. sixteenth cor. between secs. 10 and 11, Homestead, 3.62 mi E. along Hwy. 6, thence 2.49 mi E. along rd., 0.9 mi W. from tablet, 20 ft S., 20 ft E. from T-rd. S., a punched hole in a metal culvert, 1.5 ft lower than T-rd. S., painted "842.3" | | 842.52 |
| 42 | 9.7 | UE, 1.59 mi E. along gravel rd. from tablet, a copper nail and washer in center of bridge, 22 ft higher than water, elev. 798.3 | | 798.53 |

CEDAR RAPIDS QUAD. 117

- | | | | | |
|----|-----|---|--|---------|
| 43 | 9.9 | North Liberty, 7.3 mi W. and 0.2 mi N. of post office at, T. 80 N., R. 8 W., near center E $\frac{1}{2}$ sec. 11, 136 ft E., 35.3 ft S. and 4.7 ft higher than center old T-rd. E., 114 ft SE. of SE. cor. abandoned schoolhouse, 21 ft W. of powerline pole, 1.8 ft N. of E.-W. fenceline, in concrete post projecting 3 in., standard tablet stamped "30 FDR 1964 801" painted "BM 801.3" | | 801.224 |
|----|-----|---|--|---------|

LINE 3

WEST IN SOUTHEAST QUARTER OF QUAD. (By D. D. Bolin, 1966, Book CV-2042)

CEDAR RAPIDS QUAD. 117

- | | | | | |
|---|----|------|---|---------|
| 1 | 17 | 10.9 | Swisher, 2.6 mi W. along the blacktop rd. from, near the quarter cor. between secs. 2 and 11, T. 80 N., R. 8 W., 39 ft N., 48 ft E. and 4.6 ft lower than the center of the T-rd. N., 14 ft E. of the cor. fence post; 2 ft S. of the N. right-of-way fence; on top of a concrete post; a standard tablet stamped "3 DDB 1966 813" painted "BM 813.4" | 813.419 |
|---|----|------|---|---------|

AMANA QUADRANGLE
118 - Iowa

LINE 3 (Cont'd)

CEDAR RAPIDS QUAD. 117

Feet

- 1 18 11.0 Reference mark, 80 ft SSW. of the tablet, 30 ft S. and 2 ft E. of the center of the T-rd. N., on top of the E. end of the round metal culvert; a punched hole 815.18

AMANA QUAD. 118

- 19 12.0 UE 3 A, 1.0 mi W. along County Rd. #51 from the tablet, near the quarter cor. between secs. 3 and 10, T. 81 N., R. 8 W., 25 ft S., 21 ft W. and 4.9 ft lower than the center of the crossroads, on the top of the W. end of the round metal culvert; a punched hole, painted "UE 3 A 834.4" 834.43
- 20 13.0 UE 3 B, 2.1 mi W. along County Rd. #51 from the tablet, near the quarter cor. between secs. 7 and 9, T. 81 N., R. 8 W., 25 ft N., 2 ft W. and 2.5 ft lower than the center of the T-rd. S., on top of the W. end of the round metal culvert; a punched hole, painted "UE 3 B 789.3" 789.32
- 21 13.5 Swisher, 5.1 mi W. along County Rd. #51 from, near the cor. of secs. 4, 5, 8 and 9, T. 81 N., R. 8 W., 30 ft S., 1 ft W. and 1.3 ft lower than the center of the T-rd. N., 8 ft E. of the T-fence S., 3 ft N. of the S. right-of-way fence, on the top of a concrete post; a standard tablet stamped "4 DDB 1966 759" painted "EM 758.6" 758.615
- 22 13.5 Reference mark, 116 ft NNE. of the tablet, 86 ft N. and 14 ft E. of the T-rd. N., on top of the E. end of the round metal culvert; a punched hole 758.48
- 24 14.8 UE 4 A, 1.3 mi W. along County Rd. #51, from the tablet, near the E. sixteenth cor. between secs. 6 and 7, T. 81 N., R. 8 W., 30 ft S., 26 ft W. and 2.6 ft lower than the center of the crossroads, at the point where a concrete cor. post has been broken off, and on top of the reinforcing rod which has been bent down; painted "UE 4 A 853.4" 853.42
- 25 15.5 UE 4 B, 2.0 mi W. along county rd. #51 from the tablet, near the cor. of secs. 1, 6, 7 and 12, T. 81 N., Rs. 8 and 9 W., 28 ft N., 34 ft W. and 0.1 ft lower than the center of the crossroads, on top of a small angle iron post projecting about 0.7 ft above the ground, painted "UE 4 B 838.9" 838.99
- 26 16.5 UE 4 C, 3.0 mi W. along county rd. #51 from the tablet, near the cor. of secs. 1, 2, 11 and 12, T. 81 N., R. 9 W., 17 ft S., 49 ft E. and 4.3 ft lower than the center of the crossroads, on top of the S. end of the round metal culvert, a punched hole, painted "UE 4 C 828.1" 828.22
- 27 17.4 Walford, 2.0 mi SW. along the C. M. St. P. & P. RR. from the station at, 4 poles S. of milepost 72, at a private rd. crossing, 24 ft E. of the center of the track, 24 ft N. of the center of a gate, 25 ft W. of the right-of-way fence, and about 2 ft higher than the rail; a USC&GS standard disk stamped "D 85 1934" and set in top of a concrete post 868.958

LINE 4

WEST ALONG NORTH BORDER (By D. D. Bolin, 1966, Book CV-2042)

CEDAR RAPIDS QUAD. 117

- 1 55 2.7 About 0.3 mi N. thence about 2.4 mi W. along East Ave. NW. from the post office of Cedar Rapids, near the cor. of East Ave. NW. and Edgewood rd., 39 ft S. of the SE. cor. of the Edgewood School #1; 34 ft E. of the walk leading to the main entrance, 42 ft N. of E. Ave. NW., 27 ft W. of a 3 ft in diameter oak tree, on top of a concrete post; a standard tablet stamped "7 DDB 1966" 807.793

LINE 4 (Cont'd)

CEDAR RAPIDS QUAD. 117

Feet

- 1 57 3.8 UE CL, 1.1 mi W. along East Ave. NW. from the tablet, near the cor. of secs. 23, 24, 25 and 26, T. 83 N., R. 8 W., at the center of the street crossing; a chiseled square painted "UE CL A 855.7" 855.76

AMANA QUAD. 118

- 58 4.7 UE 7 B, 2.0 mi W. along East Ave. NW. from the tablet, near the cor. of secs. 22, 23, 26 and 27, T. 83 N., R. 8 W., 30 ft S., 27 ft E. and 1.9 ft lower than the center of the crossroads, on top of the E. end of the round concrete culvert; a chiseled square, painted "UE 7 B 828.3" 828.38
- 59 5.7 Reference mark, 31 ft E. of the tablet, 28 ft S. and 14 ft E. of the crossroads, on top of the E. abutment of the concrete box culvert; a chiseled square 769.87
- 60 5.8 Cedar Rapids, 0.3 mi N. thence 5.4 mi W. along East Ave. NW. and Co. Rd. #72 which starts at the city limits going W. from the post office near the cor. of secs. 21, 22, 27 and 28, T. 83 N., R. 8 W., 25 ft S., 15 ft W. and 1 ft lower than the center of the crossroads, on top of the W. abutment of a concrete box culvert; a standard tablet stamped "8 DDB 1966" 769.888
- 61 6.0 UE 8 A, 0.2 mi W. along county rd. #72 from the tablet, in the center and on the top of the S. abutment of the concrete bridge; a chiseled square, painted "UE 8 A 764.7" 764.78
- 62 6.8 UE 8 B, 1.0 mi W. along County Rd. #72 from the tablet, near the cor. of secs. 20, 21, 28 and 29, T. 83 N., R. 8 W., 29 ft S., 38 ft E. and 2.9 ft lower than the center of the crossroads, on top and on the E. end of a round metal culvert; a punched hole, painted "UE 8 B 815.3" 815.39
- 63 7.8 UE 8 C, 2.0 mi W. along County Rd. #72 from the tablet, near the cor. of secs. 19, 20, 29 and 30, T. 83 N., R. 8 W., 17 ft N., 56 ft E. and 2 ft lower than the center of the crossroads, on top and on the N. end of a round metal culvert; a punched hole, painted "UE 8 C 845" 845.14
- 64 8.8 Reference mark, 115 ft S. of the tablet, 61 ft S. and 21 ft W. of the crossroads, on top and on the W. end of a round metal culvert; a punched hole 889.71
- 65 8.8 Cedar Rapids, 0.3 mi N. and 8.5 mi W. of the post office, 1.2 mi S. and 1.0 mi E. of Atkins; near the cor. of secs. 19, 24, 25 and 30, T. 83 N., R. 8 and 9 W., 56 ft N., 34 ft W. and 3.3 ft lower than the center of the crossroads; 22 ft N. of the cor. fence post; 12 ft N. of the center of a field entrance; 1 ft E. of the W. right-of-way fence; on top of a concrete post; a standard tablet stamped "9 DDB 1966 891" 891.061
- 66 9.8 UE 9 A, 1.0 mi W. along County Rd. #72 from the tablet, near the cor. of secs. 23, 24, 25 and 26, T. 83 N., R. 9 W., and at the junction of County Rd. 72 and State Hwy. 279, 38 ft N., 35 ft E. and 5.3 ft lower than the center of the crossroads; on top of a concrete slabed culvert; a chiseled square, painted "UE 9 A 885.3" 885.34
- 67 10.8 UE 9 B, 1.0 mi W. thence 1.0 mi N. of the tablet, near the cor. of secs. 13, 14, 23 and 24, T. 83 N., R. 9 W.; 161 ft S., 21 ft E. and 2.4 ft lower than the center of the T-rd. S., on top and on the N. end of a round metal culvert of a private drive leading E., a punched hole, painted "UE 9 B 861.2" 861.28

LINE 4 (Cont'd)AMANA QUAD. 118Feet

- 1 68 12.0 Atkins, about 0.6 mi W. along County Rte. "A" from, about 760 ft W. of the cor. of secs. 14, 15, 22 and 23, T. 83 N., R. 9 W., 15 ft S. and 0.2 ft lower than the center of the Hwy., on top of the S. abutment of the concrete box culvert; a standard tablet stamped "10 DDB 1966 840"
- 840.098
- 69 12.9 UE 10 A, 0.9 mi W. along County Rd. "A" from the tablet, near the cor. of secs. 15, 16, 21 and 22, T. 83 N., R. 9 W., 355 ft W. and 12 ft S. and 1.2 ft higher than the center of the crossroads, on top of the S. abutment of the concrete bridge over Dry Creek, a chiseled square, painted "UE 10 A 823"
- 823.12
- 70 13.8 UE 10 B, 1.7 mi W. along County Rd. "A" from the tablet, near the cor. of secs. 16, 17, 20 and 21, T. 83 N., R. 9 W., 69 ft S., 35 ft W. and 5 ft lower than the center of the crossroads, on the S. side of a power pole; a rail spike, painted "UE 10 B 844.6"
- 844.71
- 71 14.7 Atkins, 3.5 mi W. of, about 1.7 mi E. along County Rd. "A" from New Hall, near the cor. of secs. 17, 18, 19 and 20, T. 83 N., R. 9 W., 48 ft N. and 273 ft E. of the crossroads, 123 ft E. and 9.3 ft lower than the center of the private drive N., 7 ft E. of the cor. fence post and 3 ft S. of the N. right-of-way fence; on top of a concrete post; a standard tablet stamped "11 DDB 1966 882"
- 882.413
- 72 14.8 Reference mark, 116 ft W. of the tablet, 43 ft N. and 14 ft E. of the private drive N., on top and on the N. end of the round metal culvert; a punched hole
- 886.85
- 73 15.8 UE 11 A, 1.0 mi W. along County Rd. "A" from the tablet, near the cor. of secs. 13, 18, 19 and 24, T. 83 N., R. 9 and 10 W., 61 ft N., 31 ft E. and 3.4 ft lower than the center of the crossroads; on the SW. side of a power pole, a rail spike, painted "UE 11 A 901.0"
- 901.09
- 74 16.8 New Hall, in the town of, near the cor. of secs. 13, 14, 23 and 24, T. 83 N., R. 10 W., at the main entrance to the New Hall Public School and on the W. end of the second step; a standard tablet stamped "12 DDB 1966"
- 898.922
- 75 16.8 Reference mark, 69 ft W. of the tablet, 16 ft E. of the bus loading zone driveway, 70 ft S. of the center of the street, on the S. side of maple tree 4 ft in diameter; a rail spike driven horizontally into the root.
- 894.71
- 76 17.8 UE 12 A, 1.0 mi W. along the dirt and gravel rd. from the tablet; near cor. of secs. 14, 15, 22 and 23, T. 83 N., R. 10 W., 15 ft N., 30 ft W. and 2.3 ft lower than the center of the crossroads; on top and on the N. end of the round metal culvert; a punched hole, painted "UE 12 A 909.3"
- 909.39
- 77 18.8 UE 12 B, 2.1 mi W. along the dirt and gravel rd. from the tablet, near the cor. of secs. 15, 16, 21 and 22, T. 83 N., R. 10 W., 17 ft N., 31 ft W. and 1.5 ft lower than the center of the crossroads, on top and on the N. end of a round metal culvert; a punched hole, painted "UE 12 B 929.2"
- 929.34

MARENGO QUAD. 119

- 78 19.8 UE 4 B, 1.9 mi E. along rd. from tablet, T. 82 N., R. 10 W., near cor. secs. 16, 17, 20 and 21, 21 ft S., 40 ft W. and 0.3 ft lower than center of U.S. Hwy. 218 at crossroads, on the S. end of a 14 in. round concrete culvert; chiseled square
- 900.08

Feet

LINE 5

NORTH ALONG SOUTH HALF WEST BORDER (By G. H. Clarin, 1964, Book CV-1690)

OXFORD QUAD. 93

- 0.0 Conroy, 0.9 mi NE. along the C. M. St. P. & P. RR. from the post office at, 16 poles SW. of milepost 59, at a private rd. crossing, 47 ft E. of center of track, 30 ft S. of center of private rd., 36 ft W. of the center of County rd., 8 ft S. and 3 ft W. of right-of-way fence cor., and 1 ft lower than rail; a USC&GS standard disk stamped "N 85 1934" set in top of concrete post 877.462

MARENGO QUAD. 119

- 1.0 UE N 85 A, 1.0 mi N. along rd. from disk, T. 80 N., R. 10 W., near quarter cor. between secs. 10 and 11, 12 ft S., 72 ft W. and 0.3 ft lower than center of rd. at T-rd. S., end of a large bolt on the S. side of E. piling of a RR. overpass; painted "UE 869.8" 869.83
- 2.0 UE N 85 B, 1.0 mi N. and 1.0 mi W. along rds. from disk, T. 80 N., R. 10 W., near quarter cor. between secs. 9 and 10, at SW. cor. of cemetery, 32 ft N., 31 ft E. and 0.1 ft lower than center of State Hwy. 149 at T-rd. E., top of rod set in a 4 x 4 in. concrete right-of-way marker, painted "UE 893.8" 893.84
- 2.9 UE N 85 C, 1.0 mi N., 1.0 mi W., thence 0.9 mi N. from disk, T. 80 N., R. 10 W., 0.1 mi S. of quarter cor. between secs. 3 and 4, 157 ft N., 48 ft W. and 6.3 ft higher than center of State Hwy. 149 at fence W., the top of a rod set in a 4 x 4 in. concrete right-of-way marker; painted "UE 906.7" 906.73
- 3.5 Center of Hwy. at T-rd. W., section corner 848.6
- 4.0 Reference mark, 130 ft SE. of tablet, 36 ft S. of center of U.S. Hwy. 6, in center of S. headwall of concrete culvert; chiseled square 761.29
- 4.1 Marengo, 1.0 mi S. and 3.0 mi E. of, T. 81 N., R. 10 W., near quarter cor. between secs. 33 and 34, at junction of State Hwy. 149 and U.S. Hwy. 6, 54 ft N., and 14 ft E. of center of Hwy. at trail N., 1 ft E. of a fence, in top of a concrete post; standard tablet stamped "1 GNC 1964 758" Painted "BM 758.4" 758.514
- 5.4 UE 1 A, 1.3 mi N. along trail and section line from tablet, T. 81 N., R. 10 W., 0.2 mi S. of cor. secs. 21, 22, 27 and 28, about 500 ft SE. (across river) from a cabin, 52 ft S., 120 ft E. and 6.1 ft higher than water level at center of curve in river; in W. side of 12 in. leaning cottonwood tree; a rail spike not painted 727.55
- 6.0 UE 1 B, 1.9 mi N. along trail and section line from tablet, T. 81 N., R. 10 W., near quarter cor. between secs. 21 and 22, 19 ft S., 5 ft E. and 2.2 ft lower than center of rd. at T-rd. N., in SE. end of an 18 in. corrugated steel pipe culvert; a punched hole, painted "UE 739.7" 739.75
- 7.0 UE 1 C, 2.9 mi N. along trail sec. line and rd. from tablet, T. 81 N., R. 10 W., near quarter cor. between secs. 15 and 16, 19 ft S., 18 ft E. and 0.5 ft lower than center of rd. at cross-fence, in SW. end of 14 in. corrugated steel pipe culvert; a punched hole, painted "UE 878.6" 878.67
- 8.1 UE 1 D, 4.0 mi N. along trail sec. line and rds. from tablet, T. 81 N., R. 10 W., in NW $\frac{1}{4}$ sec. 10, 4 ft N., 23 ft W. and 0.2 ft higher than center of rd. at board fence W.; in S. end of an 14 in. corrugated steel pipe culvert; a punched hole, painted "UE 901.2" 901.33
- 8.7 Reference mark, 165 ft E. of tablet, 36 ft S. of center of E.-W. rd., in S. side of a power pole, a rail spike 885.58

8
AMANA QUADRANGLE
118 - Iowa -

LINE 5 (Cont'd)

MARENGO QUAD. 119

Feet

- 8.8 Watkins, 3.0 mi S. and 0.5 mi W. of, T. 81 N., R. 10 W., near quarter cor. between secs. 3 and 10, 36 ft S., and 59 ft W. of center E.-W. rd. and center of rd. S. (crossroad offset), 3 ft SW. of a power pole, in top of a concrete post; standard tablet stamped "2 GHC 1964 882" painted "BM 882.3" 882.377
- 9.3 UE 2 A, 0.5 mi W. along rd. from tablet, T. 81 N., R. 10 W., near cor. secs. 3, 4, 9 and 10, 22 ft S., 32 ft E. and 2.1 ft higher than center of rd. at T-rd. N., in E. end of a 12 in. corrugated steel pipe culvert; a punched hole, painted "UE 874.8" 874.89
- 9.7 Rd. at bridge, 10 ft above drain 812.4
- 10.4 UE 2 B, 0.5 mi W. thence 1.0 mi N. along rd. from tablet, Tps. 81 and 82 N., R. 10 W., near cor. secs. 3, 4, 33 and 34, 28 ft S., 17 ft W. and 2.3 ft lower than center of rd. at T-rd. W., in center of W. headwall of concrete culvert; a chiseled square painted "UE 841.3" 841.41
- 10.8 Rd. at T-rd. E. 882.4
- 11.4 UE 2 C, 0.5 mi W. thence 2.0 mi N. along rds. from tablet, T. 82 N., R. 10 W., near cor. secs. 27, 28, 33 and 34, 48 ft S., 27 ft W. and 0.5 ft lower than crossroads; in N. end of a 12 in. corrugated steel pipe culvert; a punched hole, painted "UE 831.8" 831.91
- 12.2 Center of rd. at S. edge of river 795.8
- 12.4 Center of rd. at fenceline E. 802.8
- 12.5 UE 2 D, 0.5 mi W. thence 3.2 mi N. along rd. from tablet, T. 82 N., R. 10 W., 0.2 mi N. of cor. secs. 21, 22, 27 and 28, 68 ft S., 29 ft W. and 8.4 ft lower than center of rd. at RR. crossing, in S. end of 24 in. corrugated steel culvert; a punched hole, painted "UE 805.7" 805.86
- 12.9 Watkins, 1.5 mi W. along the C. & N.W.RR. from the station at, 15 poles W. of milepost 102, at 15 ft steel bridge 292, in S. end of the stone backwall of the W. abutment, 12 ft S. of the center of track, and about 2 ft lower than rail; a USC&GS standard disk stamped "L 84 1934" 811.160

LINE 6

SOUTH ALONG NORTH HALF WEST BORDER (By G. H. Clarin, 1964, Book CV-1690)

MARENGO QUAD. 119

- 11.3 UE 4 B, 1.9 mi E. along rd. from tablet, T. 82 N., R. 10 W., near cor. secs. 16, 17, 20 and 21, 21 ft S., 40 ft W. and 0.3 ft lower than center of U.S. Hwy. 218 at crossroads, on the S. end of a 14 in. round concrete culvert; chiseled square 900.08
- 11.4 Hwy. at culvert 886.9
- 11.8 Hwy. at cross fence 921.5
- 12.2 UE 4 C, 1.9 mi E. thence 0.9 mi S. along Hwy. from tablet, T. 82 N., R. 10 W., near cor. secs. 20, 21, 28 and 29, about 500 ft N. of Hwy. at crossroad; 24 ft N. of center of Hwy. at center of culvert, in center of W. headwall of a concrete culvert; a bolt on washer, painted "UE 889.9" 889.9
- 12.3 Crossroads 892.6
- 12.8 Hwy. at fence 928.6

LINE 6 (Cont'd)

MARENGO QUAD. 119

Feet

12.9	Reference mark 2, NNW. of station, 29 ft W. of center of Hwy., 1 ft E. of right of way fence, 2 ft NE. of fence post; 261.39 ft N. of R.M. 1; projects 7 in., USC&GS R.M. 2 YOUNG	941.538
13.0	Van Horne, about 4.0 mi SE. of, about 14.0 mi S. of Vinton, 0.3 mi N. of junction of U.S. 30 and 218, in SW $\frac{1}{4}$ sec. 28, T. 83 N., R. 10 W., near E. edge of right-of-way of U.S. Hwy. 218, 50 ft E. of center of Hwy. 218, 20 ft E. of right-of-way fence, 21 ft N. of E.-W. fence, 29 ft NE. of fence cor. post; USC&GS triangulation station disk stamped YOUNG 1934	941.256
13.0	Reference mark 1, SW. of station, 6 in. E. of right-of-way fence, 29 ft W. of center of Hwy., 150 ft N. of an E.-W. fence; projects 10 in. USC&GS R.M. 1 YOUNG	942.078
13.3	Crossroads	920.6
13.8	Hwy. at fence S.	927.6
14.3	UE YOUNG A, 0.3 mi S. and 1.0 mi E. along Hwys. from disk, T. 82 N., R. 10 W., near cor. secs. 27, 28, 33 and 34, 33 ft S., 71 ft W. and 2.6 ft lower than center of U.S. Hwy. 30 and 218, and State Hwy. 64 at crossroad on the S. end of a round 30 in. concrete culvert; a chiseled square, painted "UE 881.8"	881.80
14.5	Rd. at cross-fence	905.5
14.8	Rd. at cross-fence	932.1
14.9	Rd. at fence line W.	920.1
15.3	UE YOUNG B, 0.3 mi S., 1.0 mi E. and 1.0 mi S. from disk, Tps. 81 and 82 N., R. 10 W., near cor. secs. 3, 4, 33 and 34; 28 ft N., 6 ft W. and 1.6 ft lower than center of crossroads (rds. offset) in W. end of 30 in. corrugated steel pipe culvert; a punched hole, painted "UE 884.2"	884.20
15.5	Rd. at fence E.	885.8
15.7	Rd. at fence E.	910.1
16.0	Rd. at fence E.	899.4
16.2	Reference mark, 100 ft NE. of tablet, in W. side of power pole; a rail spike	891.44
16.3	Watkins, 3.0 mi N. and 1.0 mi W. of, T. 81 N., R. 10 W., near cor. secs. 3, 4, 9 and 10, 37 ft S., 33 ft W. of center of crossroads, 3 ft SE. of a fence cor., in top of a concrete post; standard tablet stamped "5 GHC 1964 887" painted "BM 887.2"	887.156
16.5	Rd. at fence E.	878.1
16.7	Rd. at E.-W. fence line	873.7
16.9	Rd. at crest	900.0
17.3	UE 5 A, 1.0 mi S. along rd. from tablet, T. 81 N., R. 10 W., near cor. secs. 9, 10, 15 and 16, 54 ft N., 25 ft W. and 3.3 ft lower than center of crossroads, in N. end of a 12 in. corrugated steel pipe culvert; a punched hole, painted "UE 867.8"	867.77
17.5	Rd. at fence W.	880.2
17.8	Rd. at cross-fence	859.7
18.0	Rd. at fence E.	867.1

10
AMANA QUADRANGLE
118 - Iowa

LINE 6 (Cont'd)

MARENGO QUAD. 119

Feet

18.3	UE 5 B, 2.0 mi S. along rd. from tablet, T. 81 N., R. 10 W., near cor. secs. 15, 16, 21 and 22, 121 ft S., 11 ft E. and 4.8 ft lower than center of cross-roads, in center of E. headwall of a concrete culvert; a chiseled square, painted "UE 835.2"	835.16
18.5	Rd. at drive E.	860.9
18.8	Rd. at fence E.	830.7
19.1	"UE 2 D" (Described in Line 5)	805.86