

OFFICE COPY HOLD

THIRD-ORDER LEVELS
SEA LEVEL DATUM OF 1929

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

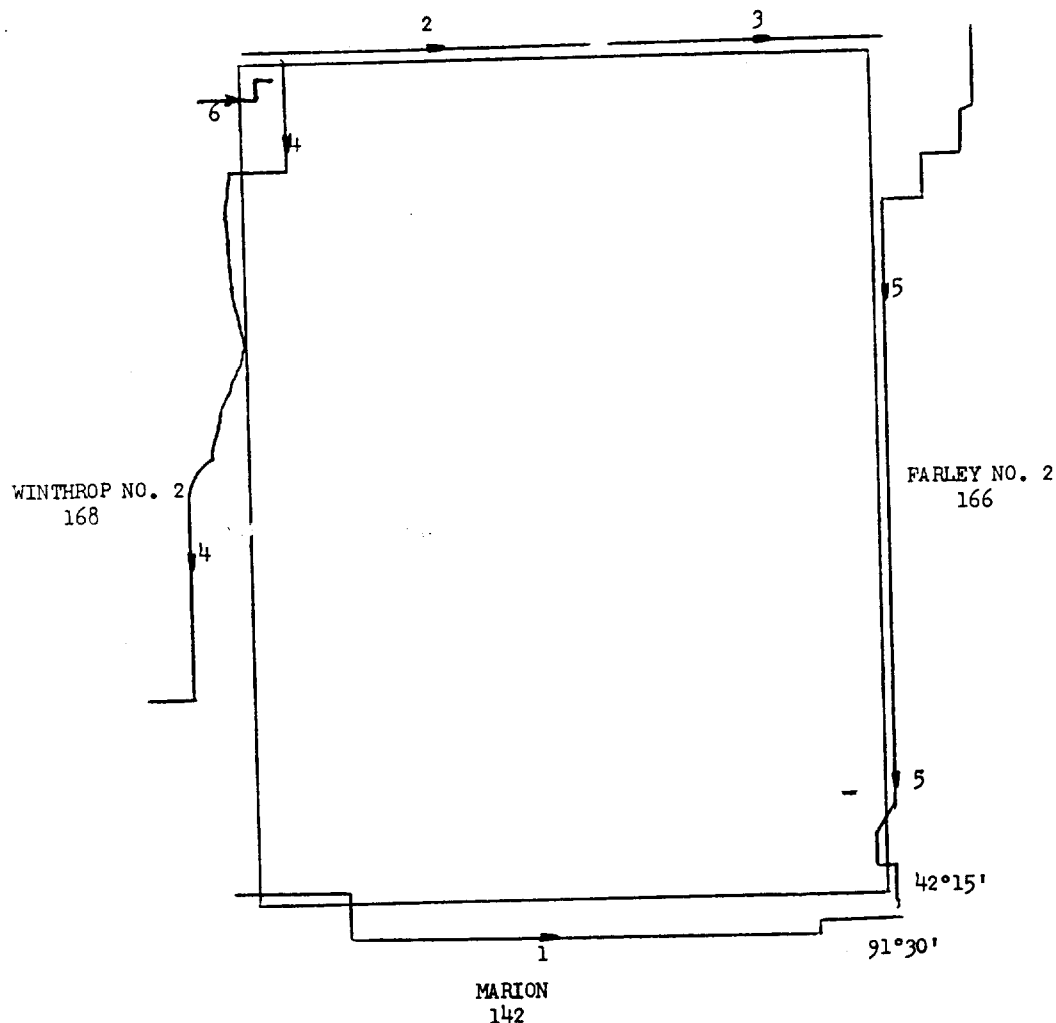
42-091-31
WINTHROP NO. 1 QUADRANGLE
167 - IOWA
N4215-W9130/15
DIAGRAM NK 15-6
DUBUQUE

Buchanan, Delaware, and
Linn Counties

Edition of: 3-1-78

PR: AKH/cb

OELWEIN NO. 4
191



N.G.S. (USC&GS) VERTICAL CONTROL DATA

Quadrangle No. 420913

167-B

42-091-31
WINTHROP NO. 1 QUADRANGLE
167 - IOWA

FeetLINE 1

(By C. D. Lien, 1966, Book CV-2044)

WINTHROP NO. 2 QUAD. 168

- 2 32 0.0 Walker, 2.2 mi SE. along the Chicago, Rock Island and Pacific RR. from the station at, 15 poles N. of milepost 22, at 120 ft steel bridge 225, in top of the W. end of the N. stone abutment, 11 ft W. of the center of the track, and 2 ft lower than the track; a US&GS standard disk stamped "L 75 1934" 838.693
- 0.2 UE, T. 86 N., R. 8 W., near the sec. cor. 15, 16, 21 and 22, Walker, 2.0 mi S., 0.5 mi E. along rd., 23 ft N., 59 ft E. from center of crossroads; a punched hole in a metal culvert, 4.5 ft lower than crossroads, painted "27 B 833.8" 833.81
- 33 1.1 UE, 1.7 mi E. along rd. from tablet, 28 ft S., 12.5 ft W. from center of rd. at field rd. S., 2.2 ft lower than rd. at field rd. S., a rail spike in telephone pole, painted "26 B 905.0" 905.04

WINTHROP NO. 1 QUAD. 167

- 34 1.6 UE, 1.63 mi E. along rd. from tablet, 32 ft S., 41 ft E. from center of crossroads, 2.1 ft lower than center of crossroads, a rail spike in telephone pole, painted "25 B 923.1" 923.14
- 35 2.3 UE, 2.27 mi E. along rd. from tablet, near the SW. sixteenth cor. of sec. 13, the NW. sixteenth cor. of sec. 24, in T. 86 N., R. 8 W., a copper nail and washer in the center of wooden bridge, 6.6 ft higher than drain, painted "24 B 893.2" 893.24
- 36 3.1 T. 86 N., Rs. 7 and 8 W., in the NW. cor. of sec. 19, Walker, 2.0 mi S. 3.5 mi E. along rd., 21 ft S., 38 ft E. from center of crossroads, 2 ft N. of evergreen tree; same elevation as crossroads; a standard tablet in a concrete post stamped "8 CDL 1966 Elev." 911.882
- 37 3.1 Reference mark, 16 ft W. from tablet, 2.2 ft lower than tablet, a punched hole in a metal culvert 909.33

MARION QUAD. 142

- 38 4.1 UE, T. 86 N., on Range Lines 7 and 8 W., near sec. cors. 19, 24, 25 and 30, Walker, 3.0 mi S., 3.5 mi E., 40 ft N., 20.5 ft W. from center of rd. at T-rd. E., a punched hole in a metal culvert, 2.1 ft lower than center of rd. at T-rd. E., painted "23 B 881.5" 881.54
- 39 5.0 UE, T. 86 N., R. 7 W., near the sec. cors. of 19, 20, 29 and 30, 26 ft S., 28 ft E. from center of crossroads, a punched hole in a metal culvert; 0.6 ft lower than crossroads, painted "22 B 902.3" 902.28
- 40 6.0 T. 86 N., R. 7 W., near sec. cors. 20, 21, 28 and 29, Walker, 3.0 mi S. 5.0 mi E., 34 ft N. from center of rd. at T-rd. S., 2 ft S., 1 ft E. from T-fence E., 2 ft W. of witness post, 2.6 ft lower than rd. at T-rd. S., a standard tablet in a concrete post extending 4 in. above ground, stamped "9 CDL 1966" 937.468
- 41 6.0 Reference mark, 104 ft S., 80 ft E. from tablet, 70 ft S. from rd. at private drive S. to power station, a chiseled square in the SE. cor. of a concrete foundation of power station 937.20
- 42 7.1 UE, 1.0 mi E. along rd. from tablet, 34 ft N., 35 ft E. from center of crossroads, a rail spike in a telephone pole, 2.9 ft lower than crossroads; painted "21 B 932.8" 932.85

42-091-31
WINTHROP NO. 1 QUADRANGLE
167 - Iowa

LINE 1 (Cont'd)FeetMARION QUAD. 142

- 2 43 8.1 UE, 2.0 mi E. along rd. from tablet, 35 ft S., 84 ft E. from center of crossroads, a rail spike in a telephone pole, 1.5 ft higher than crossroads, painted "20 B 936.5" 936.55
- 45 9.1 T. 86 N., R. 7 W., near SW. cor. of sec. 24 and NW. cor. of sec. 25, Walker, 3.0 mi S., 8.0 mi E., 17 ft S, 161 ft E. from center of crossroads, 0.9 ft higher than center of bridge, 14.5 ft higher than water; a standard disk in the SW. cor. of a concrete bridge, stamped "L.C.E.D. Elev." Elevation by USGS 861.488
- 46 9.1 Reference mark, 32 ft N., 35.5 ft E. from tablet, a chiseled square in the NE. cor. of a concrete bridge 861.45
- 47 10.1 UE, 1.0 mi E. along rd. from tablet, 32 ft S., 43 ft E. from center of rd. at T-rd. S., a rail spike in telephone pole, 0.5 ft lower than rd. at T-rd. S., painted "19 B 915.7" 915.67
- 48 11.0 UE, 2.0 mi E. of tablet, T. 86 N., Range lines 6 and 7 W., near cor. secs. 19, 20, 29 and 30, Walker, 3.0 mi S., 9.5 mi E. at the community of Paris, 27 ft N., 16 ft E. from center of crossroads, a chiseled square in a concrete culvert, 1 ft lower than crossroads, painted "18 B 849.3" 849.28
- 49 11.8 UE, 2.8 mi E. of tablet, T. 86 N., R. 6 W., near the quarter cor. between secs. 20 and 29, 0.8 mi E. along rd., a chiseled square in the SE. cor. of a concrete bridge over the Wapsipinicon River, 26 ft higher than water, same elevation as center of bridge; painted "17 B 844.7" 844.70
- 50 12.2 T. 86 N., R. 6 W., near sec. cors. 20, 21, 28 and 29, 1.0 mi E. along rd., 33 ft S., 25 ft E. from center of rd. at private drive to cemetery, 2 ft N. of right of way fence, 3 ft E. of telephone pole, 2 ft W. of witness post; a standard tablet in a concrete post stamped "10 CHL 1966" 887.719
- 51 12.2 Reference mark, 23.6 ft N., 11 ft W. from center of rd. at private drive to cemetery, a punched hole in a metal culvert 884.31
- 52 12.5 UE, 0.4 mi E. of tablet, T. 86 N., R. 6 W., near the quarter cor. between secs. 21 and 28, community of Paris, 1.3 mi E. along rd. 66 ft N., 31 ft E. from center of rd. at rd. W., 28 ft S., 32.8 ft W. from center of rd. at rd. E., a punched hole in a metal culvert; 4.6 ft lower than rd. at rd. W., painted "16 B 879.5" 879.53
- 53 13.2 UE, 1.1 mi E. along rd. from tablet, 34 ft S., 26 ft E. from center of rd. at Trd. N., a rail spike in a telephone pole, 1.5 ft higher than rd. at rd. N., painted "15 B 963.7" 963.69
- 54 13.5 UE, 1.35 mi E. along rd. from tablet, a head of a spike in the center of Hwy. 13 at T-rd. W., painted "14 B 921.8" 921.82
- 55 13.7 UE, 0.24 mi N., 1.35 mi E. along rd. from tablet, a copper nail and washer in the center of Hwy. 13 at T-rd. E., painted "13 B 915.3" 915.31
- 56 14.2 UE, T. 86 N., R. 6 W., near the sixteenth cor. between section lines 22, and 23, Central City, 2.25 mi N., 0.5 mi E., 16 ft N., 22 ft W. from center of crossroads, a punched hole in a metal culvert, 1.4 ft lower than crossroads, painted "12 B 964.4" 963.42

LINE 1 (Cont'd)

MARION QUAD. 142

Feet

- 2 57 15.2 T. 86 N., R. 6 W., near the sixteenth cor. between secs. 23 and 24, Central City, 2.25 mi N., 1.5 mi E. along rd., 30 ft N., 32 ft W. from center of rd. at T-rd. S., 1.5 ft S. of witness post, 2.3 ft lower than T-rd., a standard tablet in a concrete post stamped "11 CDL 1966" 980.190

LINE 2

(By L. H. Lambert, 1964, Book CV-1726)

OELWEIN NO. 4 QUAD. 191

- 10.0 UE, in SW. cor. of sec. 24, T. 89 N., R. 8 W., about 600 ft NW. of Y-rd. NW., 12 ft NE. of rd., on N. end of E. headwall of concrete culvert; chiseled square 1047.92
- 10.8 UE, 0.25 mi W. of cor. secs. 19, 24, 25 and 30, 30 ft N. and 15 ft W. of T-rd. S., in S. side of powerline pole; head of rail spike 1014.72
- 11.0 Reference mark, about 200 ft W. of tablet, on SW. wing wall of bridge over Buffalo Creek; chiseled square 1018.20
- 11.0 Winthrop, 2.0 mi N. and 0.5 mi E. of, near cor. secs. 19, 24, 25 and 30, T. 89 N., R. 7 and 8 W., approx. 250 ft W. of T-rd. N., on NE. wing wall of 200 ft concrete bridge over Buffalo Creek; standard tablet stamped "11 LL 1964" 1018.272
- 11.6 UE, at quarter cor. secs. 19 and 30, T. 89 N., R. 7 W., center of rd. at fence N. 1044.8
- 12.1 UE, at cor. secs. 19, 20, 29 and 30, T. 89 N., R. 7 W., 17 ft S. and 32 ft E. of T-rd. S., on S. end of corrugated steel culvert; chiseled cross 1061.45
- 12.6 UE, at quarter cor. secs. 20 and 29, T. 89 N., R. 7 W., center of rd. at fence N. 1094.7
- 13.1 UE, near cor. secs. 20, 21, 28 and 29, T. 89 N., R. 7 W., 23 ft N. and 43 ft W. of crossroads, on N. end of a concrete pipe culvert; chiseled square 1084.81
- 14.0 Winthrop, 2.0 mi N. and 3.5 mi E. of, near cor. secs. 21, 22, 27 and 28, T. 89 N., R. 7 W., 625 ft W. and 36 ft S. of T-rd. W., 2 ft N. and 8 ft E. of N. pole of a double powerline pole, in concrete post; standard tablet stamped "12 LL 1964" 1055.693
- 14.1 Reference mark, about 600 ft E. of tablet, 33 ft N. and 25 ft W. of a T-rd. W., on NW. end of concrete pipe culvert; chiseled square 1051.08
- 15.1 UE, at cor. secs. 22, 23, 26 and 27, T. 89 N., R. 7 W., 13 ft S. and 43 ft W. of center of T-rd. E., on S. end of a corrugated steel culvert; chiseled cross 1050.43
- 15.7 UE, at quarter cor. secs. 23 and 26, T. 89 N., R. 7 W., center of rd. at fences N.-S. 1080.2
- 16.2 UE, at cor. secs. 23, 24, 25 and 26, T. 89 N., R. 7 W., 22 ft S. and 7 ft W. of T-rd. N., on W. end of corrugated steel culvert; chiseled cross 1045.11
- 16.7 UE, at quarter cor. secs. 24 and 25, T. 89 N., R. 7 W., 25 ft S. and 15 ft W. of rd. at fences N.-S., on W. end of a concrete pipe culvert; chiseled square 1043.78

42-091-31
WINTHROP NO. 1 QUADRANGLE
167 - Iowa

LINE 2 (Cont'd)OELWEIN NO. 4 QUAD. 191Feet

- 17.2 Masonville, 1.0 mi N. and 1.0 mi W. of, near SE. cor. sec. 24, T. 89 N., R. 7 W., at NE. cor. of farmyard; at N. edge of windbreak of trees, 27 ft S. and 32 ft W. of crossroads, 2 ft SE. of fence cor., on top of concrete post projecting 2 in., a standard tablet stamped "6 JRE 1964" 1066.065

LINE 3

(By J. R. Ennis, 1964, Book CV-1724)

OELWEIN NO. 4 QUAD. 191

- 6.6 "6 JRE 1964" (Described in Line 2) 1066.065
- 6.7 Reference mark, 243 ft NE. of tablet, 42 ft N. of center of rd., 3 ft S. of fence; in N. side of power pole, head of nail spike 1054.34
- 7.3 UE 6 A, about 0.5 mi E. of tablet, 0.1 mi E. of $S\frac{1}{4}$ cor. sec. 19, T. 89 N., R. 6 W., about 230 ft E. of drive N., 30 ft S. and 64 ft E. of center of rd. at field entrance N., 7 ft N. of fence, in N. side of N. one of two poles, in a large E.-W. powerline, head of nail spike 1059.38
- 7.7 UE 6 B, about 1.0 mi E. of tablet, at SE. cor. of sec. 19, T. 89 N., R. 6 W., 18 ft S. and 32 ft W. of crossroads, 26 ft NE. of fence cor., on top of S. end of a concrete pipe culvert; chiseled square 1010.36
- 8.2 UE 6 C, about 1.5 mi E. of tablet, near $S\frac{1}{4}$ cor. sec. 20, T. 89 N., R. 6 W., about 150 ft NE. of intersection of large N.-S. and E.-W. powerlines, 43 ft S. of center of rd., 34 ft N. of N. bank of Spring Branch Creek; 12 ft S. of fence, in N. side of N. one of cluster of three willow trees, head of rail spike 983.12
- 8.7 UE 6 D, about 2.0 mi E. of tablet, at SW. cor. of sec. 21, T. 89 N., R. 6 W., 26 ft N. and 27 ft W. of T-rd. N., 11 ft SE. of fence cor., on top of a corrugated steel culvert; punched hole and painted square 990.31
- 9.1 UE 6 E, about 0.2 mi E. of NW. cor. of sec. 28, T. 89 N., R. 6 W., 10 ft N. and 64 ft W. of T-rd. N., 5 ft W. of E. end of steel railing on north side of bridge over Spring Branch Creek, on top of concrete curb; chiseled square 984.64
- 9.8 Reference mark, 180 ft NW. of tablet, 29 ft N. of center of rd., 2 ft N. of fence, in S. side of E. trunk of a twin oak tree; head of rail spike 1017.56
- 9.9 Masonville, 1.0 mi N. and 2.0 mi E. of, at SW. cor. sec. 21, T. 89 N., R. 6 W., about 60 ft NE. of an abandoned rock quarry, 29 ft S. of T-rd. N., 4 ft S. and 1 ft E. of T-fence S., on top of concrete post projecting 3 in., a standard tablet stamped "7 JRE 1964" 1014.604
- 10.6 UE 7 A, about 0.5 mi E. of tablet, about 0.1 mi N. of bridge over Spring Branch, near $S\frac{1}{4}$ cor. sec. 22, T. 89 N., R. 6 W., at T-rd. S., 24 ft N. and 12 ft W. of center of rd. at drive N. to old two story brick farmhouse, on S. side of power pole, in front yard, head of nail spike 964.96
- 10.9 UE 7 B, about 1.0 mi E. of tablet, about 0.1 mi N. of SW. cor. of sec. 23, T. 89 N., R. 6 W., 23 ft N. and 27 ft E. of center of rd. at field entrance S., 20 ft W. of steps over cemetery fence, on top of concrete base of W. end of center gate to cemetery; chiseled square 965.86
- 11.4 UE 7 C, about 1.5 mi E. of tablet, about 0.2 mi S. of center sec. 23, T. 89 N., R. 6 W., 21 ft S. and 37 ft W. of crossroads, (Masonville Grange Hall 2190 on NE. corner), 33 ft NE. of power pole, in large E.-W. powerline, on top S. end of corrugated steel culvert; punched hole, painted square 960.26

42-091-31
WINTHROP NO. 1 QUADRANGLE
167 - IOWA

LINE 3 (Cont'd)OELWEIN NO. 4 QUAD. 191

Feet

- 11.9 UE 7 D, about 2.0 mi E. of tablet, about 0.2 mi S. of $W\frac{1}{2}$ cor. sec. 24, T. 89 N., R. 6 W., about 350 ft E. of lone pine tree, 34 ft N. and 143 ft E. of center of rd. at T-fence S., 4 ft N. of fence, on S. side of power pole; head of nail spike 956.54

ELKADER NO. 3 QUAD. 190

- 12.5 UE 7 E, about 0.2 mi S. of center of sec. 24, T. 89 N., R. 6 W., about 2.5 mi E. of tablet, 30 ft N. of center of rd., 2 ft S. of fence, in S. side of power pole; head of nail spike 954.08
- 13.1 Reference mark, 385 ft SW. of tablet, just W. of bend in rd., 26 ft N. of center of rd., 2 ft S. of fence, in S. side of power pole; head of nail spike 951.58
- 13.2 Manchester, about 1.2 mi N. and 1.5 mi W. of intersection of U.S. Hwy. 20 and State Hwy. 13 at, about 0.2 mi NE. of SW. cor. of sec. 19, T. 89 N., R. 5 W., near NW. cor. of yard at bend in rd., 92 ft N. and 24 ft E. of center of rd., at drive E., 1 ft S. of fence cor., of SW. cor. field, on top of concrete post projecting 3 in., a standard tablet stamped "8 JRE 1964" 950.557

LINE 4

R.R. Blaser, 1973; Book CV-3034

OELWEIN QUAD. NO. 4 - 191

- 1 6 0.0 Winthrop, 2.0 mi N. and 0.5 mi E. of; near cor. secs. 19, 24, 25 and 30, T. 89 N., R. 7 and 8 W., approx. 250 ft W. of T-rd. N.; on NE. wingwall of 200 ft concrete bridge over Buffalo Creek; standard tablet stamped "11 LL 1964" 1018.272

WINTHROP QUAD. NO 1 - 167

- 8 1.2 UE L 1, T. 89 N., R. 8 W., near the E. sixteenth cor. between secs. 25 and 36, in the centerline of T-rd. E.; a R.R. spike 1027.35
- 9 2.2 UE L 2, T. 89 N., R. 8 W., near the SW. cor. of the $SE\frac{1}{4}$ of the $SE\frac{1}{4}$ of sec. 36, 28 ft N. and 20 ft E. and 1.5 ft lower than centerline of T-rd. N., on E. end of 2.0 ft concrete culvert; chiseled square 1056.49
- 10 3.3 Reference mark, 110 ft ESE. of BM, 100 ft S. and 25 ft E. and 2.0 ft lower than centerline of T-rd. S. on E. end of a 3.0 ft concrete culvert, a chiseled square 1037.15

WINTHROP NO. 2 QUAD. - 168

- 11 3.4 Winthrop, about 0.5 mi S. and about 0.75 mi W. of, T. 88 N., R. 8 W., near the N. cor. of secs. 2 and 3, 57 ft S. and 76 ft W. and 3.5 ft lower than T-rd. S., 2.0 ft E. of USGS witness sign, 2.0 ft E. of power pole, standard tablet on copper rods set flush with ground, stamped "1 ROD 1973" 1035.695
- 12 4.3 UE 1 A, T. 88 N., R. 8 W., near the N. sixteenth cor. between secs. 10 and 11 in centerline of T-rd. E., a R.R. spike 1011.75
- 13 5.1 UE 1 B, T. 88 N., R. 8 W. near the cor. of secs. 10, 11, 14 and 15, in centerline of T-rd. E., a R.R. spike 1028.11
- 14 6.1 UE 1 C, T. 88 N., R. 8 W., near the cor. of secs. 14, 15, 22 and 23, 25 ft N. and 48 ft W. and 2.6 ft lower than centerline of crossroads on N. end of 4.0 ft concrete culvert, a chiseled square 963.11
- 6.5 Reference mark, 86 ft NE. of BM, 14 ft S. and 50 ft E. and 6.7 ft lower than centerline of road at field entrance E. on S. end of a 3.0 ft concrete culvert; chiseled square 935.13

42-091-31
WINTHROP NO. 1 QUADRANGLE
167 - IOWA

LINE 5 (Cont'd)

WINTHROP NO. 2 QUAD. - 168

FEET

- 1 16 6.5 BM, Winthrop, about 3.7 mi S. and about 0.75 mi W. of, Quasqueton, about 2.25 mi N. and about 0.5 mi E. of, T. 88 N., R. 8 W., about 600 ft N. and about 200 ft E. of the quarter cor. between secs. 22 and 23, 47 ft N. and 14 ft W. and 11 ft higher than center of bridge on N. end of W. curb, a standard tablet on concrete bridge, stamped "2 ROD 1973" 942.786
- 17 7.3 UE 2 A, T. 88 N., R. 8 W. about 750 ft S. and about 600 ft E. of cor. of secs. 22, 23, 26 and 27, 21 ft SE. and 8 ft NE. and 2.1 ft lower than centerline of hwy. at box culvert; on E. headwall of twin 11 ft box culvert, Iowa Hwy. Commission BM 919.31
- 18 8.3 UE 2 B, T. 88 N., R. 8 W., about 250 ft S. and about 550 ft E. of the quarter cor. between secs. 27 and 34, in centerline of road at drive W. to cemetery, R.R. spike most southerly of two drives to cemetery 891.52
- 19 8.8 BM, Quasqueton, about 0.2 mi SW. of, T. 88 N., R. 8 W. near the center of sec. 34, 212 ft SW. along bridge and 14 ft NW. of centerline of hwy. and 5.1 ft higher than center of bridge, a standard tablet set in concrete on SW. end of NW. curb, stamped "3 ROD 1973" 893.640
- 20 8.9 Reference mark, 236 ft SW. of BM, 32 ft S. and 97 ft W. and 1.4 ft lower than centerline of hwy. at road W. in NE. side of power pole, a R.R. spike 895.42
- 21 9.4 UE 3 A, Ts. 87 and 88 N., R. 8 W. near the quarter cor. between secs. 3 and 34, 18 ft N. and 38 ft W. and 4.6 ft lower than centerline of road at field entrance W. on N. end of 3.0 ft steel corrugated culvert; copper nail and washer 885.29
- 22 10.6 UE 3 B, T. 87 N., R. 8 W. near the cor. of secs. 3, 4, 9 and 10, 7 ft S. and 39 ft E. and 2.1 ft lower than centerline of T-rd. W. (rd. E. offset N.) on S. end of 3.0 ft concrete culvert; chiseled square 918.76
- 23 11.6 UE 3 C, T. 87 N., R. 8 W. near the cor. of secs. 9, 10, 15 and 16, in centerline of road at fence W., a R.R. spike (most southerly of two fences W.) 926.71
- 24 11.6 Reference mark, 52 ft NW. of BM, 27 ft S. and 85 ft W. and 4.5 ft lower than centerline of crossroads, on E. end of 2.0 ft steel corrugated culvert, a copper nail and washer 900.73
- 25 12.6 BM, Quasqueton, about 3.5 mi S. and about 0.5 mi W. of, T. 87 N., R. 8 W., near the cor. of secs. 15, 16, 21 and 22, in the NE. cor. of church, 66 ft S. and 50 ft W. and 2.5 ft lower than centerline of crossroads; 5 ft W. of W. bank of the N.-S. road ditch, standard tablet on copper rods set flush with ground stamped "4 ROD 1973" 902.698
- 26 13.6 UE 4 A, T. 87 N., R. 8 W. near the cor. of secs. 21, 22, 27 and 28, 14 ft N. and 62 ft W. and 6.4 ft lower than centerline of road at field entrance W. on the N. end of a 2.0 ft steel corrugated culvert; copper nail and washer 923.96
- 27 14.6 UE 4 B, T. 87 N., R. 8 W. near the cor. of secs. 27, 28, 33 and 34, in the centerline of crossroads; a R.R. spike 938.07
- 28 15.7 UE 4 C, T. 87 N., R. 8 W. near the cor. of secs. 28, 29, 32 and 33, 24 ft S. and 39 ft W. and 2.7 ft lower than centerline of crossroads on S. end of 2.0 ft concrete culvert; a chiseled square 934.07
- 29 16.0 BM, 1.5 mi NW. along the Chicago, Rock Island & Pacific R.R. from the station at Walker, Linn County, 6 poles NW. of milepost 26, at a road crossing, 43 ft NE. of the centerline of the track, 10 ft SE. of the centerline of the road, 5 ft SW. of a point 20 ft SE. of a right-of-way fence corner, and level with the track, a standard USC&GS disk stamped "J 75 1934" and set in the top of a concrete post 920.940

42-091-31
WINTHROP NO. 1 QUADRANGLE
167 - IOWA

LINE 5FEET

R.R. Blaser, 1973; Book CV-3034

ELKADER NO. 3 QUAD. - 190

- 1 34 0.0 Manchester, about 1.7 mi N. of intersection of U.S. Hwy. 20 and State Hwy. 13 at; along State Hwy. 13, about 0.3 mi NW. of center of sec. 20, T. 89 N., R. 5 W.; about 0.1 mi W. of bridge over Honey Creek; about 0.1 ft E. of bend N. in Hwy. at Y-rd. W.; 65 ft N. of center of Hwy. at drive N. to old unpainted two story farmhouse, 1.9 ft lower than center of Hwy., 7 ft S. of large billboard, 3 ft NW. of fence corner, on top of concrete post; flush with ground; standard tablet stamped "2 JRE 1964 951" 951.230

FARLEY NO. 2 QUAD. - 166

- 36 0.6 UE J 1, T. 89 N., R. 5 W., near the center of the $W\frac{1}{2}$ of the $SE\frac{1}{4}$ of sec. 20, 40 ft N. and 24 ft E. and 1.3 ft higher than centerline of T-rd. W. in W. side of power pole, a R.R. spike 954.44
- 38 1.9 UE J 2, T. 89 N., R. 5 W., near the SE. cor. of the $SW\frac{1}{4}$ of the $SE\frac{1}{4}$ of sec. 29, 26 ft N. and 29 ft E. and 0.7 ft higher than centerline of crossroads (jct. of hwy. 13 and hwy. 20) NW. bolt of the NE. overhanging stoplight on top of 0.1 ft bolt 942.24
- 40 2.0 Reference mark, 294 ft WSW. of BM, 6.0 ft N. and 30 ft W. and 0.7 ft lower than centerline of T-rd. E. (Jct. of Franklin and Delaware streets) on the NE. cor. of sidewalk, a chiseled square 939.01
- 42 2.0 Manchester, at the U.S. Post Office in Manchester, T. 89 N., R. 5 W., in the $NE\frac{1}{4}$ of sec. 32, 41 ft N. and 262 ft E. of the Jct. of Franklin and Delaware Streets, 41 ft N. and 77 ft W. and 1.4 ft higher than jct. of Delaware and Madison Streets, 2.0 ft W. of E. end of bottom step to Main entrance of post office standard tablet concrete in stone stamped "MAN 1973" 940.924
- 43 2.5 UE J 3, T. 89 N., R. 5 W., about 200 ft N. of the center of the $NW\frac{1}{4}$ of sec. 32, 119 ft N. and 19 ft E. and 4.0 ft higher than jct. of 55th and Warren Streets in NW. side of power pole, a R.R. spike 942.48
- 46 3.3 Manchester, about 1.0 mi S. and about 0.5 mi W. of, T. 88 N., R. 5 W., near the NW. cor. of the $NE\frac{1}{4}$ of the $NE\frac{1}{4}$ of sec. 6, 106 ft S. and 34 ft W. and 0.8 ft higher than centerline of old Hwy. 13 at road S., to Manchester Farm Equipment Inc., 2.0 ft N. of USGS witness sign, 2 ft N. of guyed power pole standard tablet on copper rods set flush with ground and stamped "5 ROD 1973" 941.658
- 47 3.3 Reference mark, 237 ft WSW. of BM, 225 ft S. and 236 ft W. and 3.2 ft higher than centerline of old hwy. 13 at road S. to Manchester Farm Equipment Inc., in N. side of power pole; a R.R. spike 944.07
- 48 4.0 UE 5 A, T. 88 N., Rs. 5 and 6 W., near the N. cor. of secs. 1 and 6, 15 ft N. and 26 ft E. and 0.3 ft higher than centerline of crossroads on SW. cor. of triangular slab of concrete around stop sign, a chiseled square 986.70
- 52 4.0 UE 5 B, T. 88 N., Rs. 5 and 6 W., near the cor. of secs. 1, 6, 7 and 12, 19 ft S. and 58 ft W. and 2.0 ft lower than centerline of crossroads on S. end of 3.0 ft steel corrugated culvert copper nail and washer 956.66
- 53 6.0 Reference mark, 183 ft NE. of BM, 139 ft N. and 39 ft E. and 2.5 ft higher than centerline of crossroads in SW. side of power pole, a R.R. spike 1002.61

42-091-31
WINTHROP NO. 1 QUADRANGLE
167 - IOWA

LINE 4 (Cont'd)FARLEY NO. 2 QUAD. - 166FEET

1 54	6.0	Manchester, 2.0 mi S. and 2.0 mi W. of, T. 88 N., R. 6 W., near the cor. of secs. 1, 2, 11 and 12, 34 ft N. and 111 ft W. and 4.2 ft lower than centerline of crossroads, 4.6 ft SE. of fence, 4.6 ft SE. of USGS witness sign, a standard tablet on copper rods set flush with ground stamped "6 ROD 1973"	995.850
57	7.0	UE 6 A, T. 88 N., R. 6 W., near the cor. of secs. 11, 12, 13 and 14, 37 ft S. and 97 ft E. and 2.1 ft higher than centerline of crossroads in SW. side of power pole, a R.R. spike	988.79
58	8.0	UE 6 B, T. 88 N., R. 6 W., near the cor. of secs. 13, 14, 23 and 24, 225 ft N. and 36 ft E. and 3.2 ft higher than centerline of road at fence W. in W. side of power pole, a R.R. spike	1025.59
60	9.0	Reference mark, 125 ft NE. of BM, 107 ft N. and 32 ft E. and 3.2 ft lower than centerline of road at E.-W. fence in W. side of power pole, a R.R. spike	1026.89
61	9.0	Manchester, about 5.0 mi S. and about 2.0 mi W. of Ryan, about 4.0 mi N. and about 1.0 mi W. of, T. 88 N., R. 6 W., near the cor. of secs. 23, 24, 25 and 26, 2.0 ft S., and 30 ft W. and 1.5 ft lower than centerline of road at E.-W. fence, 3 ft E. of W. right-of-way fence, 10 ft N. and 3.0 ft E. of USGS witness sign, standard tablet set on copper rods set flush with ground stamped "7 ROD 1973"	1028.677
63	10.0	UE 7 A, T. 88 N., R. 6 W., near the cor. of secs. 25, 26, 35 and 36, 196 ft N. and 22 ft E. and 5.4 ft lower than centerline of road at E.-W. fence on N. end of 15 ft steel corrugated culvert, copper nail and washer	1055.63
66	11.1	UE 7 B, T. 88 N., R. 6 W., near the S. corner of secs. 35 and 36, 44 ft S. and 23 ft W. and 1.3 ft lower than centerline of T-rd. W. end of 2.0 ft steel corrugated culvert; a copper nail and washer	1039.00
68	12.1	Ryan, about 1.0 mi N. and about 1.0 mi W. of, T. 87 N., R. 6 W., near the cor. of secs. 1, 2, 11 and 12, 5 ft N. and 33 ft E. and 4.2 ft lower than centerline of road at E.-W. fence, 2 ft W. of E. right-of-way fence, 7 ft N. and 2 ft W. of USGS witness sign, a standard tablet on copper rods set flush with ground stamped "8 ROD 1973"	1053.163
69	12.1	Reference mark, 85 ft S. of BM, 80 ft S. and 33 ft E. and 0.1 ft lower than centerline of road at E.-W. fence in W. side of power pole; a R.R. spike	1057.30
71	13.1	UE 8 A, T. 87 N., R. 6 W., near the cor. of secs. 11, 12, 13 & 14, 21 ft N. and 46 ft W. and 2.0 ft lower than centerline of crossroads on N. end of 2.0 ft concrete culvert; a chiseled square	1014.35
73	14.2	UE 8 B, T. 87 N., R. 6 W., near the cor. of secs. 13, 14, 23 and 24, 16 ft S. and 26 ft W. and 1.6 ft lower than centerline of crossroads on S. end of 3.0 ft steel corrugated culvert; copper nail and washer	1046.19
76	15.2	Ryan, about 2.0 mi S. and about 1.0 mi W. of, T. 87 N., R. 6 W., near the cor. of secs. 23, 24, 25 and 26, 14 ft S. and 30 ft W. and 1.6 ft lower than centerline of road at fence W., 2 ft E. of W. right-of-way fence, 3 ft S. and 2.0 ft E. of USGS witness sign, standard tablet on copper rods set flush with ground, stamped "9 ROD 1973"	983.824
77	15.2	Reference mark, 279 ft SSE. of BM, 290 ft S. and 13 ft E. and 0.7 ft lower than centerline of road at fence W., 14 ft S. and 13 ft E. of center of bridge on top of SE. wooden piling; copper nail and washer	984.68

42-091-31
 WINTHROP NO. 1 QUADRANGLE
 167 - IOWA

LINE 5 (Cont'd)FARLEY NO. 2 QUAD. - 166FEET

- 1 78 16.2 UE 9 A, T. 87 N., R. 6 W., near the cor. of secs. 25, 26, 35 and 36, 17 ft N. and 41 ft E. and 3.1 ft lower than centerline of crossroads on N. end of 2.0 ft steel corrugated culvert; copper nail and washer 1011.36
- 2 2 17.2 UE 9 B, T. 87 N., R. 6 W. near the S. cor. of secs. 35 and 36, 26 ft N. and 25 ft E. and 1.4 ft lower than centerline of T-rd. N. on N. end of 1.5 ft steel corrugated culvert; copper nail and washer 986.14
- 5 18.2 Reference mark, 214 ft SW. of BM, 88 ft S. and 101 ft W. and 4.2 ft lower than centerline of T-rd. NE. (Road SE. offset) in NE. side of power pole; a R.R. spike 906.42
- 6 18.3 Ryan, about 5.0 mi S. and about 1.0 mi W. of, Goggon, about 1.5 mi E. of, T. 86 N., R. 6 W., near the cor. of secs. 1, 2, 11 and 12, 66 ft N. and 48 ft E. and 0.9 ft higher than centerline of T-rd. NE., 2.0 ft E. of W. end of N. headwall of triple 10 ft box culvert; standard tablet concrete in headwall stamped "10 ROD 1973" 911.568

WINTHROP NO. 1 QUAD. - 167

- 8 19.5 UE 10 A, T. 86 N., R. 6 W., near the E. sixteenth cor. between secs. 11 and 14, in the center of wooden floor of bridge; a copper nail and washer 890.46
- 10 20.6 UE 10 B, T. 86 N., R. 6 W., near the cor. of secs. 13, 14, 23 and 24, 13 ft N. and 46 ft E. and 2.8 ft lower than centerline of road at curve in SW. side of 6 ft diameter triple trunked elm tree; a R.R. spike 961.05

MARION QUAD. - 142

- 13 21.5 T. 86 N., R. 6 W., near the sixteenth cor. between secs. 23 and 24, Central City, 2.25 mi N., 1.5 mi E. along road, 30 ft N., 32 ft W. from center of road at T-rd. S., 1.5 ft S. of witness post, 2.3 ft lower than T-rd., a standard tablet in a concrete post stamped "11 CDL 1966" 980.190

LINE 6C.D. Lien, 1977; Book CV-3390WINTHROP NO. 2 QUAD. - 168

- 2 52 8.9 UE 2 B, 2.25 mi E. along road from tablet, 11.3 ft S. and 9.3 ft E. of; and 2 ft lower than centerline of bridge on top of a 20 penny spike in the SE. wingwall of a wooden bridge 1020.34

WINTHROP NO. 1 QUAD. - 167

- 54 9.8 Reference mark, 36.5 ft N., 32.4 ft W. of centerline of road at N.-S. fence line, 36.5 ft N. and 17 ft W. of centerline of road at field entrance N. and 77.5 ft N. and 49.7 ft W. of tablet, a punched hole in the W. end of a metal culvert under field entrance N. 1034.90
- 55 9.8 BM, Independence, at the junction of U.S. Hwy. 20 and State Hwy. 150, 1.5 mi N. and 7.25 mi E. of; T. 89 N., R. 8 W., near the quarter cor. between secs. 25 and 26, 41 ft S. and 17.3 ft E. of centerline of road at N.-S. fence lines, 0.6 ft N. and 17.3 ft E. of a right-of-way fence corner set on top of a 0.5-in. copper coated steel rod which is set inside of a 6-in. clay tile, a standard tablet stamped "3 CDL 1977" 1036.804

11
42-091-31
WINTHROP NO. 1 QUADRANGLE
167 - IOWA

LINE 6 (Cont'd)

WINTHROP NO. 1 QUAD. - 167

FEET

2 56 10.5 UE 3 A, 0.5 mi N. and 0.25 mi E. along road from tablet, 42 ft S. and 42 ft E. of centerline of road at I-rd. S., a chiseled square on NW. cor. of a concrete foundation for a under ground cable box

1079.81

OELWEIN NO. 4 QUAD. - 191

57 11.0 UE, quarter mi W. of cor. secs. 19, 24, 25 and 30; 30 ft N. and 15 ft W. of I-rd. S. side of powerline pole; head of a R.R. spike

1014.720