

THIRD ORDER LEVELS
SEA LEVEL DATUM OF 1929

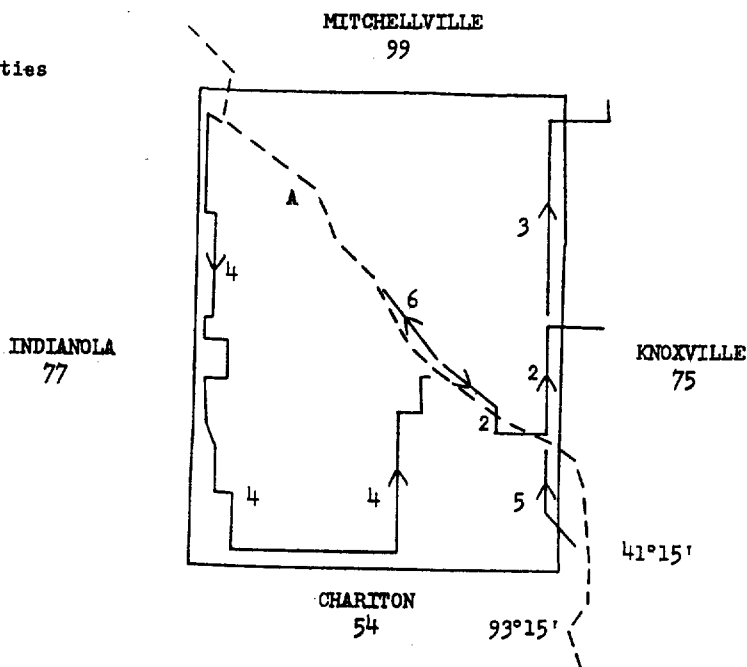
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

MILO QUADRANGLE
76 - IOWA
N4115-W9315/15
DIAGRAM NK 15-8
DES MOINES, IOWA

Marion and Warren Counties

Edition of 1/29/65

PR: ADP:vdc



USC&GS LEVELING
A. No. 410932

LINE 1

Feet

ISOLATED BENCH MARKS NOT SHOWN ON DIAGRAM

T. 75 N., R. 23 W., W. of center of sec. 23, 1.75 mi W. of Milo, at SW. corner of crossroads, 10 ft S. of corner post; in limestone rock, 6 x 8 x 30 in., set 29-in. in ground aluminum tablet stamped "896 Adj" (in 1940 this B.M. was reported reset, elev. lowered 1.306 ft and in 9/64 reported not found by J.H.B.)	894.377
Carlisle, station; at side of rd., 200 ft E. of track; limestone rock 8 x 8 x 30 in., set 28-in. in ground; aluminum tablet stamped "782 ADJ" (not found 9/64 J.H.B.)	781.564
T. 77 N., R. 23 W., sec. 23, SW cor. of; at NE. corner of crossing; limestone rock 8 x 9 x 32 in., set 30-in. below ground; aluminum tablet stamped "914 ADJ" (not found 9/64 JHB)	912.891
T. 76 N., R. 23 W., center of NE 1/4 sec. 10, W. side of rd. opposite T-rd. to E.; limestone rock 5 x 8 x 28 in.; set 27-in. in the ground; aluminum tablet stamped "931 ADJ" (not found 1964, J.H.B.)	930.189
Ackworth, 0.75 mi W. of; at SE. angle of forks of rd. limestone rock 8 x 8 x 30 in. set 29 in. below ground; aluminum tablet stamped "943 ADJ" (not found, JHB 1964)	941.264
T. 75 N., R. 23 W., sec. 10, 0.25 mi W. of NE. cor. of; 4 ft W. of corner post; at SW. angle of rd. forks; limestone rock 8 x 9 x 32 in. aluminum tablet stamped "958 ADJ" (Not found 1964; JHB)	957.178
T. 75 N., R. 23 W., sec. 23, W. of center of; 1.75 mi W. of Milo at SW. cor. of crossroads, 10 ft S. of corner post; in limestone rock 6 x 8 x 30 in. set 29 in. in ground; aluminum tablet stamped "896 ADJ" (not found 1964 JHB)	894.377
T. 75 N., R. 22 W., NE. cor. sec. 26, 2.0 mi W. of Caloma, in SW. angle of crossroads, 50 ft W. by 30 ft S. of corner; in limestone rock 6 x 10 x 30 in., set 28 in. in ground; aluminum tablet stamped "966 Adj"	965.179

76 D

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<u>LINE 1 (Cont'd)</u>	<u>Feet</u>
T. 35 N., R. 22 W., SE. cor. sec. 3, 1.0 mi W. of Motor, NW. angle of crossroads, sandstone rock 8 x 10 x 24 in., set 23-in. in ground; aluminum tablet stamped "943 Adj"	941.926
Sandyville, 300 ft S. of main crossroads, W. side of rd. at fence behind hitching rack limestone rock 8 x 8 x 32 in., set 30-in. in ground, aluminum tablet stamped "941 Adj"	940.721
T. 76 N., R. 22 W., center of SW $\frac{1}{4}$ sec. 4, W. of rd. opposite T-rd. E.; limestone rock 6 x 8 x 33 in. set 32 in in ground; aluminum tablet stamped "733 Adj" (not found 9/64 JPR)	772.575
Hartford, at S. edge of town, SE. angle of T-rd. E., sandstone rock 8 x 10 x 20 in. set 19-in. in ground; aluminum tablet stamped "888" (not found JPR 8/64)	887.171
T. 75 N., R. 21 W., NW. cor. sec. 20, 1.0 mi N. of Caloma, at SE. angle of crossroads; limestone rock 8 x 10 x 24 in. set 22 in. in ground; aluminum tablet stamped "936 Adj"	934.698
T. 75 N., R. 21 W., W. of SE. cor. of sec. 5, NW. angle of crossroads; in limestone rock 6 x 8 x 28 in., set 27 in. in ground; aluminum tablet stamped "869 Adj"	867.704
Pleasantville, 2.5 mi S. and 0.5 mi W. of; Tp. 76 N., R. 21 W., cor. secs. 27, 28, 33 and 34, 71 ft S. and 31 ft W. of T-fence N.; (section corner) a standard tablet stamped "894 Adj 1907" and set in top of sandstone rock	893.119
Pleasantville, 0.75 mi SE. of; 230 ft NW. of rd. crossing, in top of E. end of RR. culvert; "P T S 3" aluminum tablet stamped "882 Adj" (elev. by J.H. Betz, 1964; CV 1706)	878.863
Wheeling, 0.75 mi E. of; N. side of rd., 120 ft W. of track at rd. crossing; iron post stamped "910 Adj"	908.872
Swan station, 100 ft S. of; 55 ft W. of track; 5 ft S. of sidewalk; in corner of grass plot; iron post stamped "772 Adj"	771.050
Ford, 0.75 mi NE. of; in top SE. pier of S. span of hwy. bridge over Des Moines River; aluminum tablet stamped "P T S 1 763 ADJ"	761.635
Perry, 1.5 mi W. of; S. part of W.C. Wilson's yard, 1 ft N. of Wabash RR. fence at rd. crossing S. to wagon bridge over Des Moines River; in top of concrete post; standard tablet stamped "P T S 24 LS 1904 RESET 1924 Iowa"	773.084
Bennington, top of rim of upstream edge of iron tube of second pier from N. end of hwy. bridge near Morgan Valley on Wabash RR.	752.38
Carlisle, 160 ft E. of C. R.I. & P. RR. tracks at hwy. crossing; S. of station; 6 ft N. of N. edge of concrete sidewalk; on concrete post; standard tablet stamped "JAS 8 1928"	781.835

LINE 2

<u>GENERALLY SOUTHEAST FROM NEAR CENTER (J.H. Betz, 1964; CV 1706)</u>	<u>MILO QUAD. - 76</u>
2 62 0.0 Beech, at; on the C. R.I. & P. RR.; at hwy. underpass # 2, 16-in. SE. of NW. end of SW. concrete headwall; 1 ft N. of an iron railing post; 6 ft SW. of the center of SW. track; a USC&GS standard disk stamped "B 113 1935"	874.683
0.7 UE B 113 A, a chiseled square on base of RR. spike; on RR. underpass 220	859.46
64 1.8 UE B 113 B, UE, center of RR. overpass 508; a copper nail and washer	821.89
65 2.8 UE B 113 C, center of RR. overpass in bridge 498;	816.0
66 3.5 Kimball, at; on the C. R.I. & P. RR. station 200 ft NW. of station, at rd. crossing; 45 ft NW. of center of rd., 36 ft SW. of center of track and about 1 ft lower than track; a USC&GS standard disk stamped "D 113 1935" set in top of concrete post; (NOTE: Previous elev. of 816.576 could not be reconciled. This elev. by U.S.G.S.)	817.306

LINE 2 (Cont'd)

MILO QUAD. - 76

Feet

1 42 4.3	UE D 113 A, about 0.7 mi S. of disk; at T-rd. N.; 31 ft S. and 31 ft E. of center of T-rd.; a chiseled square on E. end of 30-in. concrete culvert under field rd. to S.; 0.8 ft lower than center of T-rd.	867.97
43 4.7	UE D 113 B, about 0.7 mi S. and 0.4 mi E. of disk; a chiseled square on SE. wingwall of small bridge; 21 ft E. and 13 ft S. of center of bridge; 1.1 ft lower than center of bridge; (Water 9 ft lower than bridge floor)	813.71
44 5.7	UE D 113 C, 0.7 mi S. and 1.5 mi E. of disk; a copper nail and washer in center of State Hwy. 181	917.130
45 6.6	UE D 113 D, about 0.7 mi S., 1.5 mi E. and 0.8 mi N. of disk; a chiseled square on concrete headwall, 17 ft E. of center of Hwy. 2.2 ft lower than center of Hwy. opposite	846.89
46 7.1	Pleasantville, approx. 2.0 mi S. of; Tp. 76 N., R. 21 W., approx. SE. cor. NW $\frac{1}{4}$ sec. 27, at junction of State Hwys. 92, 60 and 181; in an island formed by intersection of hwy., 150 ft N. and 86 ft E. of junction and 11 ft N. of an 18 in. power pole; a standard tablet stamped "16 JHB 1964" and set in top of a concrete post; 1.2 ft higher than intersection of Hwy., 11 ft N. of metal witness post	910.084 Reset
47 7.3	Reference mark, 790 ft N. of tablet; at a 36-in. round concrete culvert; under Hwy. 60; 21 ft E. of center of Hwy.; a chiseled square on E. end of culvert	904.97
48 8.2	UE 16 JHB A, 1.1 mi N. along State Hwy. 60 from tablet; 199 ft S. and 21 ft E. from T-rd. W.; a chiseled square on E. end of 36-in. concrete culvert; 2.4 ft lower than center of rd. opposite	907.74
49 9.5	Pleasantville, 0.75 mi SE. of; 230 ft NW. of rd. crossing; on top of E. end of RR. culvert; aluminum tablet; "P T S 3 882 ADJ"	878.863 ✓ Elev. ?
50 9.7	UE Sta 3 A, 0.25 mi N. of tablet; a copper nail and washer center of crossroad	919.57
51 10.7	UE 3 B, 0.25 mi N. and 1.0 mi E. of tablet; 22 ft N. and 34 ft E. of T-rd. N.; a chiseled square on N. end of 30-in. concrete culvert; 3.4 ft lower than T-rd. N.	920.55
<u>KNOXVILLE QUAD. - 75</u>		
52 11.9	UE 3 A, about 0.25 mi N. and 2.0 mi E. of tablet; a chiseled square on N. end of 30-in. concrete culvert; 27 ft N. of Hwy. and 5.5 ft lower than center of hwy.	907.90
53 12.8	UE 3 D, about 0.25 mi N. and 3.1 mi E. of tablet; 40 ft S. and 36 ft E. of T-rd. S.; a RR. spike in fence corner post; 3.5 ft lower than center of T-rd. S.	904.61
54 13.2	Reference mark, 430 ft S. of tablet; a chiseled square on S. end of a 30-in. concrete culvert; 25 ft S. of center of Hwy. and 5.4 ft lower than center of Hwy. opposite	896.49
54 13.2	Pleasantville, 4.0 mi E. of along Co. Hwy. "U" Tp. 76 N., R. 20 W., in sec. 17, about 0.5 mi S. and 0.25 mi W. of NE. corner, 500 ft W. of intersection of Co. Hwy. "U" and E.-W. County Rd., 11 ft E. and 3 ft S. of center of gate to field on N.; 37 ft N. of center of Hwy.; 3 ft N. of a metal witness post; a standard tablet stamped "17 JHB 1964" and set in a concrete post	904.396
55 14.0	UE 17 JHB A, 0.8 mi NE. along Co. Hwy. "U" from tablet; 23 ft N. of rd. a chiseled square on N. end of 30-in. concrete culvert; 5.4 ft lower than rd. opposite	876.36

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LINE 3

Feet

NORTH ALONG EAST BORDER (J.H. Betz, 1964; CV 1706)

KNOXVILLE QUAD. - 75

- 3 18 8.6 USC&GS and State Survey "240" T. 77 N., R. 21 W., approx. center of sec. 11, in front yard of property owned by Mr. Harry Town, in 1964; 43 ft S. and 6 ft E. of SE. corner of house; 18 ft W. of black locust tree; and set in top of concrete post and stamped "240 IOWA" (This B.M. will be covered by the flood pool of the Red Rock Dam) (reservoir 725; flood pool 780) elev. by U.S.G.S. 762.931
- 19 8.7 UE 240 A, 0.15 mi W. of tablet; at T-rd. S.; leading to Percy, 32 ft N. and same elev. as E.-W. T-rd. S.; a RR. spike in wooden fence post 751.12

MILO QUAD. - 76

- 20 9.8 Percy, 0.5 mi N. and 1.0 mi W. of; T. 77 N., R. 21 W., approx. center of sec. 10, 545 ft E. and 26 ft N. along rd. from center of Wabash RR. tracks; 26 ft N. of center of rd., 1.4 ft N. of right-of-way fence; 24 ft E. of 30-in. cottonwood tree; 1.4 ft N. of metal witness tag; 1.7 ft higher than rd. opposite; a standard tablet stamped "21 JHB 1964" set in top of concrete post; (This B.M. will be destroyed by the flood control pool of Red Rock Dam, flood pool 780, reservoir 725) 763.870
- 9.8 Reference mark, 24 ft W. of tablet; a RR. spike in E. side of 30-in. cottonwood tree 765.25
- 21 10.3 UE 21 JHB A, about 0.5 mi W. of tablet; a chiseled square on NW. wingwall of bridge over Des Moines River 753.71
- 22 11.5 UE 21 JHB B, 0.5 mi W. and 1.1 mi S. of along rd. from tablet; at an abandoned farmhouse; a chiseled square on sidewalk in front of house 745.66
- 23 12.5 UE 21 JHB C, T. 77 N., R. 21 W., 0.5 mi W. and 2.0 mi S. of tablet; approx. cor. secs. 15, 16, 21 and 22; a chiseled square on NW. curbing of small bridge over Sugar Creek; (water 9 ft lower than UE) 745.45
- 24 13.0 UE 21 JHB D, 0.5 mi W. and 2.5 mi S. of tablet; a chiseled square on NE. curbing of small bridge; (Water 16 ft lower than UE) 762.90
- 25 13.6 Pleasantville, 3.5 mi N. of; Tps. 77 N., R. 21 W., quarter cor. between secs. 27 and 28; 560 ft S. of drive W.; 37 ft W. of center of rd., set in top of cut; 1.3 ft E. of right-of-way fence and 1.3 ft E. of metal witness sign; 5.3 ft higher than rd. opposite; standard tablet set in top of concrete post; stamped "22 JHB 1964" 893.413
- 26 13.6 Reference mark, 48 ft S. of tablet; a RR. spike set in N. side of power pole 891.61
- 28 14.6 UE 22 JHB A, 1.0 mi S. of tablet; a chiseled square on W. end of 24-in. metal culvert; 22 ft W. of center of rd. opposite; 3.6 ft lower than rd. opposite 890.59
- 29 15.6 UE 22 JHB B, 2.0 mi S. of tablet; 15 ft E. of center of rd. on top of concrete culvert headwall; a chiseled square; 1.3 ft lower than center of rd. opposite 913.30
- 30 16.7 Pleasantville, 1.0 mi N. of; T. 76 N., R. 21 W., approx. quarter cor. between secs. 9 and 10, tablet is set in front yard of property owned by Arie De Jooed in 1964; 19 ft S. and 76 ft W. of SW. corner of house; 35 ft N. and 33 ft E. of center of drive to house; a standard tablet stamped "23 JHB 1964" and set in top of a concrete post; 1.5 ft higher than rd. opposite 924.594
- 31 16.7 Reference mark, 440 ft S. of tablet; a chiseled square on E. end of 18-in. culvert 913.20
- 32 17.8 UE 23 JHB A, in Pleasantville, at junction of Co. Hwy. "U" (Stringtown Rd.) and State Hwy. 60; a copper nail and washer; center of hwy. 923.47
- 33 18.3 UE 3 A, 0.25 mi N. of tablet; copper nail and washer in center of crossroads 919.57

LINE 4

Feet

SOUTH, EAST THENCE NORTH FROM NORTHWEST CORNER (J.H. Betz, 1964; CV 1706)

MILO QUAD. - 76

3 35 0.0	Carlisle, 1.7 mi SE. along the C. R.I. & P. RR. from the station at; at milepost 63 and a rd. crossing, 42 ft SW. of center of track; 36 ft NW. of center of rd., and 8 ft SE. of a power transmission pole; a USC&GS standard disk stamped "V 112 1935" and set in top of a concrete post	824.322
36 0.9	UE V 112 A, about 0.9 mi S. of disk; at bridge over Middle River; 87 ft E. of NW. bridge railing on concrete piling below bridge; 5 ft lower than bridge floor; (Water 25 ft lower than bridge floor)	774.93
37 2.0	UE V 112 B, about 2.0 mi NW. of disk; 167 ft S. and 22 ft W. of junction of Hwy. 60 and 5th Street; at small bridge; a chiseled square on the center of W. curbing	814.23
38 2.9	UE V 112 C, about 2.0 mi NW. and 1.0 mi S. of disk; at a RR. grade crossing; 112 ft NE. of grade crossing on a small RR. bridge; a chiseled "x" on a bolt on SW. corner of bridge	778.82
39 3.8	Referencemark, 1680 ft N. of tablet; 175 ft N. and 22 ft W. of T-rd. E.; 19 ft S. and 22 ft W. of center of drive W.; a chiseled square on top of S. end of culvert headwall under drive to W.	784.96
3.8	Carlisle, about 1.9 mi S. of; Tp. 77 N., R. 23 W., S. of approx. center of sec. 15; tablet is set in farm yard of Ralph Williamson in 1964, 124 ft S. and 37 ft E. of drive E.; 162 ft W. of SW. corner of house; 52 ft W. of 14-in. silver maple tree; a standard tablet stamped "24 JHB 1964" and set flush with ground; 1.7 ft lower than rd. opposite; set in top of a concrete post	785.523
40 4.2	UE 24 JHB A, 0.4 mi SW. from tablet; at junction of rd. S. and rd. SW.; 82 ft SW. and 24 ft S.; a chiseled square on top of S. end of 24-in. concrete culvert; 1.8 ft lower than P.I. of Rds.	780.46
41 5.3	UE 24 JHB B, T. 77 N. R. 23 W., 1.4 mi S. of tablet; cor. secs. 21, 22, 27 and 28; 44 ft S. and 38 ft W. of T-rd. E.; a chiseled square on S. end of 18-in. metal culvert; under drive to W.; 2.3 ft lower than T-rd.	851.15
44 6.2	UE 24 JHB C, 2.3 mi S. of tablet; 400 ft E. of T-rd. E.; top of square iron rod on top center of culvert headwall; 16 ft N. and 3.6 ft lower than rd. opposite	864.30
45 6.8	Carlisle, 4.0 mi S. and 0.75 mi E. of; Tp. 77 N., R. 23 W., approx. 0.25 mi N. and 0.25 mi W. of cor. secs. 26, 27, 34 and 35; about 450 ft W. of T-rd. W.; 30 ft S. and 58 ft W. of drive to farm on S.; 1.5 ft N. of metal witness sign set in fence line; a standard tablet stamped "25 JHB 1964" set in top of a concrete post; 0.1 ft lower than rd. opposite	912.869
46 6.9	Reference mark, 450 ft E. and 57 ft S. of tablet; 57 ft S. and 18 ft W. of T-rd. W.; a chiseled square on W. end of 18-in. metal culvert	877.06
48 8.0	UE 25 JHB A, T. 76 and 77 N., R. 23 W., 1.1 mi S. of tablet; cor. secs. 2, 3, 34 and 35; 23 ft S. and 35 ft W. of crossroad; a chiseled square on top of center of concrete culvert headwall; 5.7 ft lower than center of crossroad	883.89
49 9.1	UE 25 JHB B, 2.2 mi S. of tablet; 525 ft N. of T-rd. E.; 21 ft W. of rd. opposite a chiseled square on top center of concrete box culvert headwall; 4.7 ft lower than center of rd. opposite	900.99
50 10.0	Reference mark, 320 ft N. of tablet; top of iron rod on center top of concrete culvert headwall on W. side of rd.	936.67

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MILO QUADRANGLE
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LINE 4 (Cont'd)	MILO QUAD. = 76	Feet
3 5010.0	Ackworth, 1.75 mi N. and 1.0 mi W. of; Tp. 76 N., R. 23 W., N. of quarter cor. between secs. 10 and 15; tablet is set in front yard of property owned by Mr. Roy Henry in 1964, 66 ft N. and 51 ft W. of center of drive to house, 49.5 ft E. of NE. corner of house; 51 ft W. of rd. opposite; 2.9 ft higher than rd.; standard tablet stamped "26 JHB 1964" and set in top of concrete post.	944.921
51 11.0	UE 26 JHB A, 0.5 mi S. and 0.5 mi E. of tablet; 22 ft W. of center of rd. opposite; a chiseled square on top center of concrete culvert headwall; 4.7 ft lower than rd. opposite	904.89
53 12.1	UE 26 JHB B, 0.5 mi E., 1.0 mi S. and 0.5 mi W. of tablet; (1 mi S. of tablet) at a T-rd. S.; 19 ft N. and 41 ft W. of P.I. of T-rd.; a chiseled square on N. end of 30-in. concrete culvert	917.730
55 13.2	Ackworth, 1.0 mi W. of; Tp. 76 N., R. 23 W., at approx. quarter cor. between secs. 22 and 27, 113 ft S. and 41 ft W. of T-rd. E.; and set on the front yard of property owned by D.R. Van Ryswyk, 4 ft S. and 177 ft E. of NE. corner of house and 8 ft N. of a utility pole; 1 ft higher than rd. opposite; a standard tablet stamped "27 JHB 1964" set in top of a concrete post	940.088
57 13.4	Reference mark, about 1000 ft S. of tablet; 108 ft N. and 26 ft W. of junction of Co. rd. and State Hwy. 92; a chiseled square in W. end of 30-in. concrete culvert	903.13
58 14.2	UE 27 JHB A, about 0.8 mi S. of tablet; a chiseled square on W. end of 48-in. metal culvert; 26 ft W. and 4.7 ft lower than rd. opposite	879.96
59 15.2	UE 27 JHB B, about 1.8 mi S. of tablet; 24 ft S. and 18 ft E. of SE. railing of bridge over South River; a chiseled square on concrete walk to concrete block pump house	802.67
61 16.4	Reference mark, 28 ft S. and 30 ft W. of Trd. W.; 80 ft W. of tablet; a RR. spike in a wooden fence corner post	959.03
16.4	Milo, 2.0 mi N. and 2.0 mi W. of; Tp. 75 N., R. 23 W., 0.25 mi W. of cor. secs. 2, 3, 10 and 11; 54 ft S. and 43 ft E. of T-rd. W.; 14 ft S. of a power pole and 9 ft W. of a fence; 7.6 ft W. of a metal witness post; and level with T-rd. W.; a standard tablet stamped "28 JHB 1964" and set in top of a concrete post	958.927
62 17.6	UE 28 JHB A, T. 75 N., R. 23 W., 0.75 mi S. and 0.5 mi E. of tablet; 0.25 mi N. and 0.25 mi E. of cor. secs. 10, 11, 14 and 15; at a small cemetery; 13 ft N. and 36 ft W. of P.I. of curve in rd., 19 ft S. of SW. cor. of cemetery; a chiseled square on E. end of 12-in. concrete culvert; under rd. to field	959.70
63 18.9	UE 28 JHB B, about 2.0 mi S. and 0.5 mi E. of tablet; at field entrance to W. a chiseled square on N. end of 24-in. concrete culvert	906.58
64 19.5	Referencemark, center of Co. rd. and State Hwy. 205; a chiseled square, center of crossroads	901.94
65 19.5	Milo, 1.75 mi W. and 0.5 mi S. of; Tp. 75 N., R. 23 W., 0.25 mi W. of quarter cor. between secs. 22 and 23; 147 ft S. and 37 ft W. of crossroad; 6 ft N. and 2.0 ft W. of fence corner; 3.4 ft N. of metal witness post; 11.2 ft lower than crossroad; a standard tablet stamped "29 JHB 1964" and set flush with ground	890.740
68 20.3	UE 29 JHB A, 0.8 mi S. of tablet; 15 ft E. and 4.7 ft lower than rd. opposite; a chiseled square on E. end of 24-in. concrete culvert	909.67
69 21.0	UE 29 JHB B, 1.5 mi S. of tablet; 43 ft N. and 36 ft W. of T-rd. N.; a RR. spike in E. side of 12-in. wooden corner post	905.91

<u>LINE 4 (Cont'd)</u>	<u>MILO QUAD. - 76</u>	<u>Feet</u>
3 70 21.7	UE 29 JHB C, T. 75 N., R. 23 W., 1.5 mi S. and 1.0 mi E. of tablet; cor. secs. 25, 26, 35 and 36, 141 ft W. and 20 ft S. of crossroad; a chiseled square on W. end of 15-in. concrete culvert under drive to farm	970.51
72 22.8	Reference mark, 261 ft S. and 24 ft W. of crossroad; a chiseled square on W. end of concrete culvert	969.01
22.8	Milo, 2.0 mi S. of; Tp. 75 N., R. 22 and 23 W., cor. secs. 25, 30, 31 and 36; 36 ft S. and 41 ft E. of crossroad; 2 ft S. and 2 ft E. of fence corner, 2.0 ft lower than crossroad; 2.0 ft E. of metal witness post; a standard tablet stamped "30 JHB 1964" and set in top of a concrete post	969.913
73 23.9	UE 30 JHB A, about 1.0 mi E. of tablet; cor. secs. 29, 30, 31 and 32; 183 ft S. and 43 ft E. of crossroad; a RR. spike in S. side of 30-in. apple tree	972.79
75 24.9	UE 30 JHB B, T. 75 N., R. 22 W., 2.0 mi E. of tablet; cor. secs. 28, 29, 32 and 33; 309 ft N. and 12 ft W. of crossroad a RR. spike in top of SW. piling of a small bridge; 0.5 ft lower than center of bridge; (Water 12.5 ft lower than bridge)	860.00
77 25.8	Reference mark, about 0.36 mi W. of tablet; on wooden bridge; a RR. spike set vertically in the SE. piling (water - 14)	848.09
78 26.1	Milo, 2.0 mi S. and 3.0 mi E. of; Tp. 75 N., R. 22 W., cor. secs. 27, 28, 33 and 34, 26 ft N. and 724 ft E. of crossroad; 1.5 ft N. of a metal witness post and 0.8 ft higher than rd. opposite; a standard tablet stamped "31 JHB 1964" and set in top of a concrete post	937.512
80 27.1	Reference mark, cor. secs. 27, 28, 33 and 34; 23 ft S. and 23 ft W. of crossroad; a chiseled square on the S. end of a 24-in. concrete culvert (3.5 ft lower than center of crossroad)	935.42
27.1	Milo, 2.0 mi S. and 4.0 mi E. of; Tp. 75 N., R. 22 W., cor. secs. 26, 27, 34 and 35; 466 ft N. and 39 ft E. of crossroad; at a field entrance 1.0 ft W. of fence and 10 ft N. of center of field entrance; a standard tablet stamped "32 JHB 1964" and set in top of concrete post	959.670
4 2 28.0	UE 32 JHB A, T. 75 N., R. 22 W., about 0.9 mi N. of tablet; cor. secs. 22, 23, 26 and 27, 17 ft S. and 10 ft E. of yard fence corner; a chiseled square on N. end of a 24-in. concrete culvert; (3.6 ft lower than rd. opposite)	965.13
3 29.0	UE 32 JHB B, T. 75 N., R. 22 W., about 1.9 mi N. of tablet; cor. secs. 14, 15, 22 and 23; 24 ft S. and 28 ft W. of center of drive W.; a chiseled square on S. end of 18-in. concrete culvert under drive to W.	969.71
4 29.7	Milo, 4.0 mi E. and 0.55 mi N. of; T. 75 N., R. 22 W., 839 ft N. of quarter cor. between secs. 14 and 15; (also 51 ft W. of quarter cor. between secs. 14 and 15) 2.5 ft lower than rd. opposite; Mark is set flush with the ground and is 1.3 ft SE. of wooden witness post; USC&GS R.M. disk stamped "HELLER NO 4"	969.702
5 30.0	UE Heller No 4 A, about 0.36 mi N. of disk; T. 75 N., R. 22 W., cor. secs. 10, 11, 14 and 15; at T-rd. E.; 31 ft N. and 36 ft E. of center of T-rd. E.; a chiseled square on N. end of 30-in. concrete culvert; 3.4 ft lower than T-rd. E.	968.12
6 31.0	UE Heller No 4 B, T. 75 N., R. 22 W., about 1.4 mi N. of disk; cor. secs. 2, 3, 10 and 11; 159 ft N. and 31 ft W. of crossroad; a chiseled square on W. end of concrete culvert headwall	935.19
7 31.9	UE Heller No 4 C, T. 75 N., R. 22 W., about 2.2 mi N. of tablet; 0.2 mi S. of cor. secs. 2, 3, 34 and 35; 27 ft W. of Rd. opposite; a chiseled square on W. end of 36-in. metal culvert; 4.3 ft lower than center of rd. opposite	940.93

8
MILO QUADRANGLE
76 - IOWA

<u>LINE 4 (Cont'd)</u>	<u>MILO QUAD. - 76</u>	<u>Feet</u>
4 8 32.6 Reference mark, 180 ft S. of drive W. and W. of rd. opposite; 38 ft E. of small barn		904.72
32.6 Milo, 3.5 mi N. and 4.0 mi E. of; Tp. 76 N., R. 22 W., at quarter cor. between secs. 34 and 35; 80 ft E. of SE. corner of dairy barn; 38 ft W. of corn crib; a standard tablet set in SE. corner of 7 x 15 ft concrete well base; stamped "33 JHB 1964"		900.893 903.84
9 33.4 UE 33 JHB A, about 0.5 mi E. and 0.25 mi N. of tablet; 156 ft S. and 20 ft W. of T-rd. E.; a square iron rod on top center of concrete headwall; 5.2 ft lower than rd. opposite		907.62
11 34.7 UE 33 JHB B, about 0.5 mi E. and 1.5 mi N. of tablet; chiseled square on center of bridge over Coal Creek;		894.75
13 35.8 US&GS "B 113 1935" (described in Line 2)		874.683

LINE 5

<u>NORTH ALONG SOUTHWEST BORDER (J.P. Ryan, 1964; CV 1730)</u>	<u>KNOXVILLE QUAD. - 75</u>	
2 8 4.4 UE K 113 F, Dallas, 3.2 mi N. of; near junction of State Hwy. 181 and Co. Hwy. "M" 20 ft N. and 43 ft E. of center of crossroads; top of steel RR. rail right-of-way marker; painted orange with white top and 0.2 ft higher than center of crossroads		894.29
	<u>MILO QUAD. - 76</u>	
11 5.9 UE K 113 G, Dallas, about 4.5 mi N. and 1.0 mi W. of; center of sec. 15, T. 75 N., R. 21 W., 95 ft N. and 60 ft W. of center of crossroads; on State Hwy. 181 and 0.8 ft lower than top of RR. steel rail right-of-way marker; painted orange and white top		921.77
12 6.6 UE K 113 H, Dallas, 5.3 mi N. and 1.0 mi W. of; 21 ft S. and 25 ft E. of T-rd. E.; and junction with State Hwy. 181 painted square on S. end of steel culvert and 1.5 ft lower than center of T-rd. E.		876.27
13 7.4 UE K 113 I, Dallas, 6.0 mi N. and 1.0 mi W. of; on N. end of E. curb of State Hwy. 181 overpass over RR. track; and 0.2 ft higher than center of Hwy. overpass; a chiseled square; (25 ft above RR. tracks)		922.16
14 8.4 UE 113 C, 0.7 mi S. and 1.5 mi E. of disk; a copper nail and washer in center of State Hwy. 181"		917.13

LINE 6

<u>NORTHWEST NEAR CENTER OF QUAD. (J.P. Ryan, 1964; CV 1730)</u>	<u>MILO QUAD. - 76</u>	
2 33 0.0 US&GS "B113 1935" (described in Line 2)		874.683
0.3 UE B 113 Z, Beech, center of rd. between the 2 RR. tracks; at RR. crossing E.-W. rd.		884.2
34 1.3 UE B 113 Y, Beech, about 1.0 mi N. and 0.3 mi W. of; 22 ft N. and 30 ft E. of center of RR. crossing on N.-S. rd., a RR. spike on SE. side of power pole; and 1.3 ft higher than RR. crossing		858.58
35 2.2 UE B 113 X, Beech, about 1.7 mi N., near center of sec. 11, T. 76 N., R. 22 W., center of rd. at T-rd. W.		880.3
36 2.7 UE B 113 W, Beech, about 2.3 mi N. of; near quarter cor. between secs. 2 and 11; T. 76 N., R. 22 W., 29 ft N. and 37 ft E. of center of T-rd. S.; a RR. spike in E. side of power pole; and 2 ft lower than T-rd. S.		868.95

LINE 6 (Cont'd)

MILO QUAD. - 76

Feet

- 2 37 3.6 UE B 113 V, Beech, about 3.0 mi N. and 0.8 mi W. of; in NE. quarter of sec. 2, T. 76 N., R. 22 W., 19 ft S., and 77 ft W. of T-rd. S.; in large fence post; NE side of post; 3.7 ft lower than center of T-rd. S.; (RR. spike in post at an angle) 829.29
- 38 4.3 UE 113 U, Beech, about 3.0 mi N. and 1.3 mi W. of; at bridge over S. River; 8 ft N. and 32 ft E. of W. end of wooden planks, on top of NW. steel piling; most westerly rivet head of 4; 1.7 ft lower than center of bridge; (Water elev. 21 ft lower) 769.35
- 39 5.2 UE B 113 T, Hartford, 1.5 mi S. and 1.2 mi E. of; at small wood bridge over drainage ditch; on SE. end of wood curb; a copper nail and washer and 0.1 ft higher than center of bridge; (Water elev. in ditch -14 ft) 773.16
- 40 6.2 UE B 113 S, 0.5 mi S. and 1.2 mi E. of Hartford, 59 ft S. and 77 ft W. of center of T-rd. S.; in NE. root of a 36-in. maple tree; in yard of Dean Bruerer; a copper nail and washer; 0.3 ft lower than center of T-rd. S. 801.48
- 42 7.4 UE B 113 R, Hartford, about 1.1 mi S. and 0.3 mi E. of; in SW. cor. sec. 28, 32 ft N. and 19 ft W. of center of rd. at T-rd. S.; a RR. spike in SE. side of power pole 896.16
- 43 7.6 Hartford, 1.5 mi S. and 0.2 mi E. of; about 1.6 mi SE. along C. R.I. & P. RR. from foundation of old RR. station, 46 ft NE. of the center of RR. at RR. crossing 12 ft SE. of a fence corner; 2 ft SW. of a fence and about 4 in. below surface of ground; a standard tablet stamped "Y 112 1935" set in concrete post. 842.613