

3-ORDER LEVEL
LOCAL GEODETIC VERTICAL DATUM OF 1929

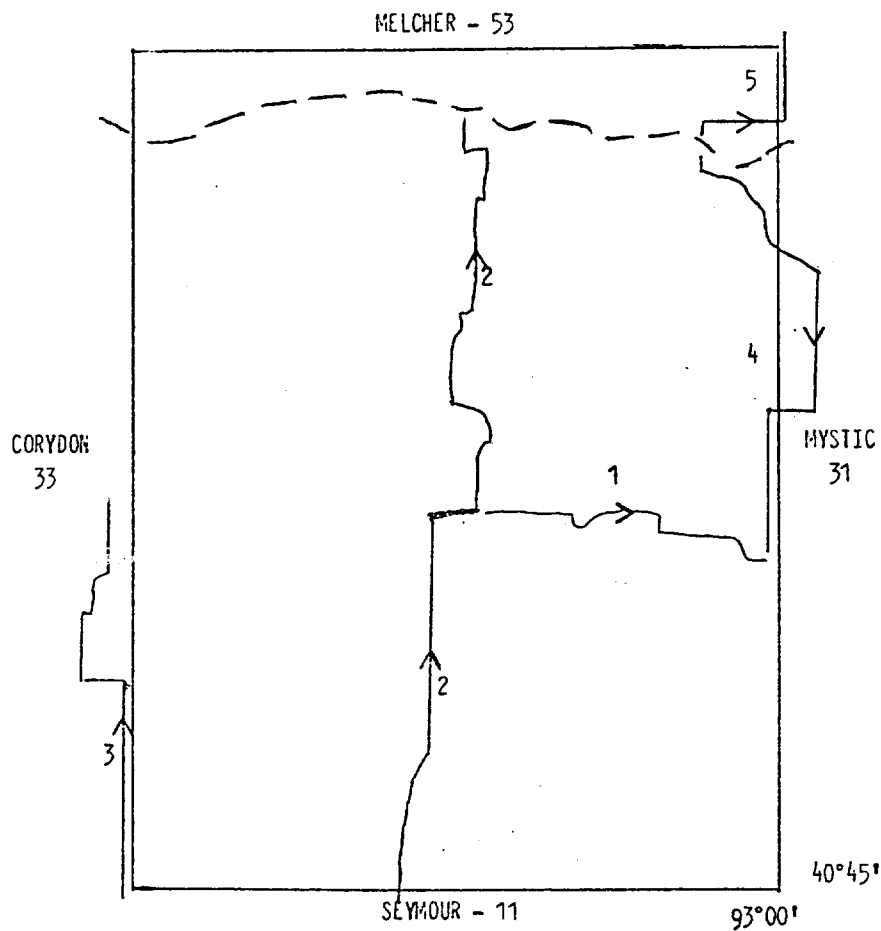
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

40-093-11
RUSSELL QUADRANGLE
32 - IOWA
N4045-W9300/15
DIAGRAM NK 15-11
CENTERVILLE

Lucas, Wayne, Monroe and Appanoose
Counties, Iowa

Edition of: 2/14/80

PR: DB/RS



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

Quadrangle No. 400931

32 D

LINE 1

FEET

K. E. Daly, 1965; Book CV-1866

SEYMOUR QUAD. - 11

1 7 4.4 UE 12 LB, T. 69 N., R. 19 W., on line between secs. 25 and 26, about 0.3 mi S. of cor. secs. 23, 24, 25 and 26, at bridge over walnut creek; on E. side of bridge on SE. rivet head in steel "I" beam cap over piling at S. end of bridge (Rd. 1.0 ft higher) (Water level = 15.2 from UE., W-908.4) 923.49

RUSSELL QUAD. - 32

9 5.6 Reference mark, is 390 ft W. of tablet, 28.5 ft S. and 20.5 ft W. of crossroads; top of bolt clamp on W. end of 1.5 ft metal culvert under N.-S. rd.; painted; "R.M." 1001.38

10 5.7 Plano, 1.0 mi N. and 2.5 mi E. of; T. 69 N., R. 19 W.; near cor. secs. 13, 14, 23 and 24; 44 ft N.; 368 ft E. and 5.2 ft higher than T-rd. N. of offset crossroads; 4 ft N. and 1 ft E. of SW. cor. of Philadelphia Cemetery, in a concrete post projecting 4-in. a standard tablet stamped "1 KED 1965"; painted, "BM" 1010.459

11 5.9 Centerline crossroads 1005.2

11 6.8 UE 1 A, 1.1 mi N. of tablet, T. 69 N., R. 19 W., near cor. secs. 11, 12, 13 and 14; 30 ft N., 25 ft W. and 3.7 ft lower than dim T-rd. W.; W. end of 4 ft round metal culvert; chiseled square; painted "UE 1 A" (Drain -3.5) 991.26

12 6.9 T-rd. W. 995.

12 6.9 UE 1 B, 1.8 mi N. of tablet, T. 69 N., R. 19 W.; approximately 0.25 mi S. of cor. sec. 1, 2, 11 and 12; at a bridge over Wold Branch; 11.5 ft W. of N.-S. rd. and 1.0 ft above rd. at bridge; S. end of W. concrete base of iron railing; chiseled square 954.31

13 8.3 Plano, 3.5 mi N. and 2.5 mi E. of, T. 69 N., R. 19 W., at T-rd. S.; at $\frac{1}{4}$ cor. between sec. 1 and 2, in line with rd. S. and 20 ft N. of E-W. rd., in a concrete post; standard tablet stamped "PTS 28 1923 MAC" 1004.179

14 8.3 Reference mark, is 52.5 ft W. of tablet, 29 ft N. and 50 ft W. of T-rd. S., in S. foot of 3.0 ft elm tree, head of RR. spike 1005.37

15 8.9 UE 28 A, 0.6 mi E. of tablet, T. 69 N., R. 19 W., near center of sec. 1, 412 ft N. of T-rd. N., 15 ft W. of centerline rd. and drain; 0.4 ft lower; center of W. headwall of a 6.0 ft concrete box culvert; chiseled square (Drain 958.6) 964.90

16 9.4 Centerline crossroads 1009.2

16 9.4 UE 28 B, 0.5 mi N. and 0.5 mi E. of tablet, T. 69 and 70 N., R. 19 W., near $\frac{1}{4}$ cor. between secs. 1 and 36, 33 ft N., 31 ft W. and 1.9 ft lower than crossroads; W. end of 2.5 ft round concrete culvert chiseled square 1007.29

17 10.4 UE 28 C, 1.25 mi N. and 0.25 mi E. of tablet, T. 70 N., R. 19 W., near center of NW. quarter of sec. 36, approximate 0.1 mi S. of farm on W. side of rd. 29 ft E. and 5.3 ft lower than rd. at drain; E. end of 2.5 ft metal culvert; chiseled square and painted square 979.05

LINE 1 (Cont'd)

RUSSELL QUAD. - 32

FEET

1	18	10.4	Rd. at drain	984.4
18	11.4		UE 28 D, 2.25 mi N. and 0.2 mi E. of tablet; T. 70 N., R. 19 W., near center of NW quarter of sec. 25, approximately 400 ft W. of right angle bend in rd. from S. to W.; 16 ft S. and 1.8 ft lower than rd. at culvert; S. end of 2 ft round concrete culvert, chiseled square	994.21
19	12.2		Walnut City, 2.5 mi N. and 3.0 mi W. of; T. 70 N., R. 19 W., near quarter cor. between secs. 23 and 24; 705 ft S., 39 ft E. and 21.5 ft higher than crossroads, 290 ft SE. of SE. cor. of North Bend Chritian Church, 2 ft W. of right-of-way fence, in a concrete post; a standard tablet stamped "2 KED 1965"	998.197
20	12.2		Reference mark, is 294 ft NW. of tablet, 27 ft W. of centerline of rd., 3 ft S. and 15.5 ft E. of entrance to church; SE. cor. of sidewalk; chiseled square; not painted	987.93
21	12.3		Centerline crossroads	979.5
22	13.3		UE 2 A, 1.1 mi W. and N. along rd. from tablet; T. 70 N., R. 19 W., 0.25 mi E. of cor. secs. 14, 15, 22 and 23; on top of SW. support of bridge across S. fork of Charition River; chiseled square (meas. from UE, -20.3) Water Level	894.212
3	14.2		UE 2 B, 0.5 mi N. and 1.5 mi W. of tablet, T. 70 N., R. 19 W., near quarter corner between secs. 15 and 22; 23 ft N., 28.7 ft E. and 0.9 ft higher than I-rd. S., W. root of 1.5 ft cedar tree; head of RR. spike driven vertically; painted; "UE 2 B" (also USCE BM) Elev. by USGS	982.16
24	14.2		I-rd. S.	981.3
24	15.0		Reference mark, is 91 ft N. and 9 ft W. of tablet, on SE. cor. of bottom of church step; chiseled square	1004.00
25	15.0		Plano, 7.0 mi N. of, T. 70 N., R. 19 W., 0.25 mi W. of cor. secs. 15, 16, 21 and 22, 54 ft S. and 32 ft W. of center of crossroads; in NE. cor. of Brushy schoolyard (Now abandoned) in top of concrete post projecting 0.6 ft, a standard tablet stamped "TI 10 E 1933"	1002.580
26	15.5		Centerline of I-rd. W.	996.1
26	15.5		UE 10 E -A, 0.5 mi N. of tablet, T. 70 N., R. 19 W., near cetner of E. half of sec. 16; 41 ft S., 63 ft W. and 2.1 ft higher than I-rd. W., 1 ft N. of right-of-way fence and 2.0 ft W. of powerline guy wires, top of iron fence post projecting 1 ft	998.13
28	16.6		I-rd. N.	965.3
28	16.6		Rd. at drain	958.0
28	16.6		UE 10 E-B, 0.5 mi N. and 1.0 mi W. of tablet, T. 70 N., R. 19 W., near center of E. half of sec. 17, approximately 330 ft W. of I-rd. N., 27 ft S. and 10.0 ft lower than rd. at drain SW. cor. of S. head-wall of concrete culvert chiseled square	947.93
29	17.4		Plano, 7.2 mi N. and 1.8 mi W. of; T. 70 N., R. 19 W., about 0.25 mi N. of cor. secs. 17, 18, 19 and 20, 78 ft S. and 27 ft W. of centerline of I-rd. E., 13 ft S. of field entrance and 3.8 ft E. of right-of-way fence in top of concrete post projecting 1 ft, a standard tablet stamped "TI 9 E 1933 1003"	1000.874

LINE 1 (Cont'd)

RUSSELL QUAD. - 32

FEET

1	30	17.4	Reference mark, is 202 ft NNE. of tablet, 115 ft N. and 26.5 ft E. of I-rd. E. center of SE. headwall of 3.5 ft concrete culvert; chiseled square	997.36
32	18.4		UE 9 E-A, 1.0 mi W. of tablet; T. 70 N., R. 19 and 20 W., approximately 730 ft E. of a $\frac{1}{2}$ cor. between secs. 13 and 18, 21 ft S. and 4.5 ft lower than rd. at culvert S. end of 3 ft round metal culvert; chiseled square	998.20
33	18.4		Rd. at culvert	1002.7
34	19.6		UE 9 E-B, 2.2 mi W. of tablet, T. 70 N., R. 20 W., near $\frac{1}{2}$ cor. between secs. 13 and 14; 25 ft S., 178 ft W. and 9.6 ft lower than crossroads; center of S. headwall of 3 ft concrete box culvert; top of bolt set in headwall	1001.60
35	20.5		B.M. "TT 8 E 1933" (Described in Isolated list)	1010.360

LINE 2

N. D. Duerk, 1965; Book CV-1868

SEYMOUR QUAD. - 330-MO. 11-Iowa

10	0.0		Reference mark, 93-22, described in Line 13	1054.18
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RUSSELL QUAD. - 32

10	1.0		UE 22 A, 1.0 mi N. of B.M., along gravel rd., 13 ft S., 24 ft E. and 0.9 ft lower than rd. at drive E., in S. end of steel pipe culvert under drive, a punched hole	1046.93
11	1.8		UE 22 B, 1.8 mi N. of B.M., along gravel rd., 290 ft N. of crossroads; 21 ft W. and 3.6 ft lower than rd. at culvert; in W. headwall of concrete culvert; a chiseled square	975.72
12	2.5		Reference mark, 350 ft S. of B.M., 8 ft N., 25 ft E. and normal to rd. at field entrance E.; in N. end of steel pipe culvert; a punched hole	920.94
12	2.5		Promise City, 2.5 mi N. of, along gravel rd.; near the E. sixteenth cor. between secs. 10 and 15, T. 69 N., R. 20 W., 14 ft S., 44 ft E. and 1.1 ft lower and normal to rd. at E.-W. fence; 2 ft N. and 13 ft E. of fence corner, 14 ft S. of field rd.; a standard tablet in concrete post; stamped "2 MDD 1965"	923.282
13	2.8		Centerline of I-rd. W.	923.4
13	3.6		UE, 1.1 mi N. of B.M., along gravel rd., 9 ft N.; 26 ft W. and 0.7 ft lower than rd. at old right-of-way W. and fence E.; in N. end of steel pipe culvert; a punched hole	1006.00
14	4.6		UE 2 B, 2.1 mi N. of B.M., along gravel rd., 28 ft S., 25 ft W. and 0.3 ft higher than crossroads; in N. end of round concrete culvert; a chiseled square	1027.88
15	5.1		UE 2 C, 2.6 mi N. of B.M., along gravel rd. 28 ft S., 43 ft E. and 0.7 ft higher than I-rd. E.; in power pole a RR. spike; painted "UE 1009.9" (This spike also USE BM 28 S 1009.248)	1009.84

LINE 2 (Cont'd)

RUSSELL QUAD. - 32

FEET

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|----|------|---|----------|
| 16 | 5.6 | Promise City, 5.6 mi N. of, along gravel rd.; 2.5 mi S. and 0.5 mi W. of Confidence; near the cors. of secs. 26, 27, 34 and 35, T. 70 N., R. 20 W., 60 ft N., 57 ft W., and 3.1 ft higher than T-rd. E.; 2 ft E. of a fence; in a concrete post, a standard tablet stamped "3 MDD 1965" | 988.750 |
| 17 | 5.6 | Reference mark, 290 ft N. of B.M.; 340 ft N. and 83 ft W. of T-rd. E. in SE. root of large maple tree; a copper nail and washer | 988.86 |
| 17 | 5.7 | In Wayne Co. approx. 650 ft N. of the cor. of sec. 26, 27, 34 and 35; and on sec. line between secs. 27 and 26, T. 70 N., R. 20 W., is a chiseled square on the SW. cor. of the S. end of E. bridge curb; B.M. is 1 ft above the bridge floor (USE Elev. 940.43) (Elev. by USGS) | 940.137 |
| 18 | 6.7 | UE 3 A, 1.1 mi N. of B.M.; along gravel rd.; 43 ft N., 34 ft E., and 3.7 ft lower than crossroads; in power pole, a RR. spike; painted "UE 1010.1" (RR. spike is also USE BM 30-S) | 1010.01 |
| 19 | 7.4 | UE 3 B, 1.8 mi N. of B.M., along gravel rd.; 68 ft S., 14 ft E. and 0.5 ft higher than rd. at bridge; in SE. wing wall of bridge; a chiseled square; painted "UE 947.7" (This square is also (31-S)B.M.) | 947.62 |
| 20 | 8.2 | Reference mark (Described in Isolated Bench Marks) | 1001.90 |
| 20 | 8.2 | B.M. "TT 8 E 1933" (Described in Isolated Bench Marks) | 1010.360 |
| 21 | 9.2 | UE 8 A, 1.1 mi N. of B.M., along gravel rd., 23 ft S. and 6.8 ft lower than rd. at culvert; in S. headwall of concrete culvert; a chiseled square | 990.90 |
| 22 | 9.9 | Centerline T-rd. W. | 992.5 |
| 23 | 10.3 | UE 8 B, 2.1 mi N. of B.M.; along gravel rd.; 37 ft S., 70 ft W., and same elevation as rd. at drive E.; in NE. cor. of porch to small frame house a chiseled square | 1031.18 |
| 24 | 11.3 | Reference mark, 93 ft E. of B.M.; 70 ft S. and 285 ft W. of T-rd. N.; in NW. root of large oak tree, a RR. spike | 1003.01 |
| 24 | 11.3 | Confidence, 2.25 mi N. of; near the center of the N½ of sec. 2, T. 70 N., R. 20 W., 52 ft S., 386 ft W. and 19.1 ft higher than T-rd. N.; 52 ft S. and 3 ft E. of rd. at fence S.; 7 ft S. and 3 ft E. of a fence cor.; in concrete post; a standard tablet stamped "4 MDD 1965" | 1009.100 |
| 25 | 11.4 | Centerline T-rd. N. | 990.0 |
| 26 | 12.4 | UE 4 A, 1.0 mi N. of B.M.; along dirt rd.; 47 ft W., and 1.2 ft higher than rd. at tree line W. in NE. side of forked oak tree, a RR. spike | 985.96 |
| 27 | 13.2 | USE B.M. R 53; on NW. cor. of main span of bridge over N. fork of Chariton River; a chiseled cross on NW. bolt. (Elev. by USGS) | 909.84 |
| 28 | 13.4 | Reference mark, about 790 ft S. of B.M.; 108 ft S. and 48 ft E. of rd. at private drive E.; in N. side of large oak tree; a RR. spike | 990.03 |

LINE 2 (Cont'd)

RUSSELL QUAD. 32

FEET

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|---|----|------|---|----------|
| 1 | 28 | 13.5 | Confidence, 4.25 mi N. of, in the NE¼ of sec. 26, T. 71 N., R. 20 W., 46 ft N., 3 ft W. and 2.5 ft higher than I-rd. S., 12 ft N. and 5 ft W. of a fence cor.; in concrete post, a USE tablet stamped Fuller; painted "B.M. 1006.3" (Elev. by USGS) | 1006.35 |
| | 29 | 14.3 | "UE Fuller A", thence 0.5 mi N. of B.M., along gravel rd.; near the S. sixteenth cor. between sec. 23 and 24, T. 71 N., R. 20 W., 13 ft N., 170 ft W. and 10.2 ft lower than I-rd. E.; in E. side of med. elm tree; a copper nail and washer | 1002.81 |
| | 30 | 15.1 | UE centerline crossroads | 983.1 |
| | 30 | 15.1 | UE, 0.2 mi E., thence 1.25 mi N. of B.M. along gravel rd.; near the cors. of secs. 13, 14, 23 and 24, T. 71 N., R. 20 W., 408 ft N., 22 ft E., and 21.3 ft lower than crossroads; in E. headwall of concrete culvert; a chiseled square | 961.76 |
| | 31 | 16.0 | Centerline I-rd. S. | 995.7 |
| | 32 | 16.0 | Reference mark, 310 ft E. of B.M., 300 ft W. and 12 ft N. of I-rd. S.; in E. end of N. headwall of a concrete culvert; a chiseled square | 986.33 |
| | 32 | 16.3 | Confidence, 6.5 mi N. and 0.5 mi E. of; 1.5 mi S., and 4.0 mi E. of Russell, near the cors. of secs. 11, 12 13 and 14, T. 71 N., R. 20 W., 610 ft W., 23 ft N. and 14.8 ft higher than I-rd. S.; 23 ft N., and 4 ft W. of rd. at fence N.; 2 ft S. and 4 ft W. of a fence cor.; in concrete post; a standard tablet stamped "5 MDD 1965" | 1010.551 |
| | 33 | 16.8 | UE 5 A, 0.6 mi W. of B.M. along gravel rd. near the W. sixteenth cor. between secs. 11 and 14, T. 71 N., R. 20 W.; 133 ft N., 18 ft E., and 7.2 ft lower than I-rd. N., in E. headwall of concrete culvert; a chiseled square | 953.16 |
| | 34 | 17.8 | UE 5 B, 0.6 mi W. thence 1.0 mi N. of B.M., along gravel rd.; near the W. sixteenth cor. between secs. 2 and 11, T. 71 N., R. 20 W., 26 ft N., 12 ft W. and 1.7 ft lower than I-rd. S. in top of W. end of round concrete culvert, a chiseled square | 1013.31 |
| | 35 | 18.3 | Reference mark, 148 ft SW. of B.M., 26 ft S. and 10 ft E. of rd. at private drive S.; in E. end of round concrete culvert; a chiseled square | 1016.02 |
| | 35 | 18.3 | Russell, 0.5 mi S. and 3.75 mi E. of; near the E. sixteenth cor. between sec. 2, and 11; T. 71 N., R. 20 W., 40 ft N., 28 ft W. and 1.5 ft lower than I-rd. N.; 6 ft N. and 3 ft E. of a fence cor.; in concrete post; a standard tablet stamped "6 MDD 1965" | 1018.394 |
| | 36 | 19.1 | UE, 0.8 mi N. of B.M.; along gravel rd. in NE¼ of sec. 2; T. 71 N., R. 20 W.; 32 ft S., 11 ft W. and 0.6 ft lower than centerline of bridge; in SW. bridge support; a copper nail and washer | 971.64 |
| | 37 | 20.2 | Russell, 2.7 mi E. along the Chicago, Burlington and Quincy RR. from the station; 100 ft NW. of milepost 324 at rd. crossing, 36 ft SW. of the centerline of the SW. track, 27 ft SE. of the rd., 4 ft NE. of a pole with two guy wires, and level with the track; a standard USC&GS diskstamped "D 111 1935" and set in the top of a concrete post | 955.454 |

LINE 3

FEET

M. D. Duerk, 1965; Book CV-1867

SEYMOUR QUAD. - 330

- 1 46 4.2 Centerline crossroads 1040.0
- 46 4.2 UE 7 B, 1.6 mi N. of B.M.; along gravel rd.; near the cor. of secs. 26, 27, 34 and 35; T. 69 N., R. 21 W., 530 ft N., 30 ft W. and 27.0 ft lower than crossroads; on SW. cor. of concrete catch basin; a chiseled square 1013.05

RUSSELL QUAD. - 32

- 47 5.1 Harvard, 4.5 mi N. and 1.0 mi E. of; 3.5 mi E. of Corydon; near the corners of secs. 22, 23, 26 and 27, T. 69 N., R. 21 W., 127 ft S., 23 ft E., and 1.5 ft higher than I-rd. S., 3 ft N. of a cor. fence post; in concrete post; a standard tablet stamped "8 MDD 1965" 1062.859
- 48 5.1 Reference mark, 93 ft N. of B.M. 29 ft S. and 12 ft E. of I-rd. S., on top of E. end of round iron culvert; a chiseled cross 1059.38
- 48 6.1 I-rd. S. Centerline 1035.8
- 9 6.1 UE, 1.0 mi N. of B.M., along gravel rd. near the cors. of secs. 14, 15, 22 and 23; T. 69 N., R. 21 W., 24 ft S., 43 ft E. and 2.8 ft lower than I-rd. S. on top of S. end of steel pipe culvert; a punched hole 1032.93
- 50 7.1 B.M. "69 S", in Wayne Co., at the cor. of secs. 10, 11, 14 and 15, T. 69 N., R. 21 W. at I-rd. junction, B.M. is a RR. spike on N. side of a telephone pole, 1.0 ft above ground the pole is on S. side of E.-W. rd. Elev. by USGS 991.97
- 50 7.1 UE 8 B, 2.0 mi N. of B.M. "8 MDD 1965", 77 ft N. and 23 ft E. of I-rd. N., top end of 24-in. pipe culvert; 5.1 ft lower than I-rd.; a punched hole 991.26

CORYDON QUAD. - 33

- 51 7.7 Reference mark, 64 ft N. of B.M., 27 ft N. and 20 ft W. of I-rd. N., in top of W. end of round concrete culvert; a chiseled square 1067.2
- 51 7.7 B.M. Corydon, 1.7 mi N., and 3.0 mi E. of; near the $\frac{1}{2}$ cor. between secs. 10 and 15, T. 69 N., R. 21 W.; 37 ft S., 11 ft W., and 0.3 ft higher than I-rd. N., 10 ft W. of a fence cor., 1.0 ft N. of a fence; in a concrete post a standard tablet stamped "T 25 E 1933 RESET 1965" 1067.799
- 53 8.6 Centerline of rd. at fence W. 1030.1
- 53 8.7 UE 25 A, 1.0 mi N. of B.M.; along gravel rd., near the $\frac{1}{2}$ cor. between secs. 9 and 10; T. 69 N., R. 21 W.; 133 ft N., 30 ft W. and 11.3 ft lower than rd. at E.-W. fence; in NE. root of a 30-in. oak tree; a copper nail and washer 1018.79
- 55 9.7 UE 25 B, 2.0 mi N. of B.M., near the $\frac{1}{2}$ cor. between secs. 3 and 34, Tps. 69 and 70 N., R. 21 W., 32 ft N., and 1.8 ft higher than rd. at fence N., in S. side of cor. fence post, a RR. spike 1027.24

LINE 3 (Cont'd)

CORYDON QUAD. - 33

FEET

- 1 57 10.7 Reference mark, 37 ft NE. of B.M.; 25 ft S., 21 ft W. of T-rd. W., in W. end of round concrete culvert; a chiseled square 1057.02
- 57 10.7 Corydon, 4.2 mi N., and 2.5 mi E. of near $\frac{1}{2}$ cor. between secs. 33 and 34, T. 70 N., R. 21 W.; 40 ft S., 56 ft W. and 2.5 ft higher than T-rd. W.; 8 ft E. of power pole, 1.0 ft N. of a fence; in a concrete post; a standard tablet stamped "TT 26 E 1933 RESET 1965" 1060.400
- 58 10.9 Centerline T-rd. E., T. 70 N., R. 21 W. at cor. secs. 27, 28, 33 and 34 1059.2
- 58 11.7 UE 26 A, 1.0 mi N. of B.M. along gravel rd.; near the $\frac{1}{2}$ cor. between secs. 27 and 28; T. 70 N., R. 21 W., 21 ft S., 33 ft E. and same elev. as T-rd. S., in S. end of 12-in. steel pipe culvert; a punched hole 1020.26
- 59 12.6 UE, 1.6 mi N. and 0.25 mi E. of B.M. near the W. sixteenth cor. between secs. 22 and 27; T. 70 N., R. 21 W.; 20 ft S., 8 ft E. and 0.8 ft lower than centerline bridge; on top of bolt on plate over SE. piling, a chiseled cross 976.85
- 60 13.3 Corydon, 6.45 mi N. and 3.0 mi E. of; 2.5 mi E. of Millerton; near the center of the N $\frac{1}{2}$ of sec. 22, T. 70 N., R. 21 W.; 120 ft N. and 55 ft E. of crossroads, 1 ft S. of a underground telephone cable marker; in concrete post; a standard tablet stamped "TT 27 E RESET 1965" Elev. 1058.007 1058.092
- 61 13.3 Reference mark, 170 ft S. of B.M., 60 ft S. and 71 ft E. of crossroads; 15 ft E. of a power pole in top of RR. rail projecting 0.7 ft; a chiseled cross 1058.53
- 61 14.0 Centerline T-rd. W. 1049.8
- 61 14.5 UE, 1.2 mi N. of B.M. along gravel rd.; near the $\frac{1}{2}$ cor. between secs. 10 and 15; T. 70 N., R. 21 W., 207 ft S.; 24 ft W., and 4.1 ft lower than rd. at E.-W. fence, in top of W. end of steel pipe culvert; a punched hole painted "UE 27 A" 1049.28
- 62 15.5 UE, 2.2 mi N. of B.M., along gravel rd.; near the $\frac{1}{2}$ cor. between secs. 3 and 10; T. 70 N., R. 21 W., 33 ft S., 29 ft E. and 1.3 ft lower than crossroads in top of S. end of 12-in. steel pipe culvert; a punched hole; painted, "UE 27 B" 1040.91
- 63 16.5 Reference mark, 108 ft SW. of B.M.; 150 ft S. and 73 ft W. of crossroads; in NE. side of 20-in. elm tree, a RR. spike 999.60
- 64 16.5 Millerton, 3.5 mi N., and 2.5 mi E. of; near the $\frac{1}{2}$ cor. between secs. 3 and 34; Tps. 70 and 71 N., R. 21 W.; 56 ft S., 35 ft W. and 7.8 ft lower than T-rd. W.; 44 ft S. and 35 ft W. of T-rd. E., 2 ft E. of a fence in a concrete post; a standard tablet stamped "TT 5 E 1933" 997.845

LINE 4

A. J. Keeps, 1979; Book CV-3530

RUSSELL QUAD. - 32

- 2 0.0 B.M., 1.6 mi E. along the Chicago, Burlington & Quincy R.R. from the station at Melrose, Monroe County, 7 poles NW. of milepost 317, at bridge 317.13, in the top of the SW. end of the NW. abutment, 9 ft SW. of the centerline of the SW. track, and about 1- $\frac{1}{2}$ ft lower than the track; a standard disk stamped "111 1935" 856.793

LINE 4 (Cont'd)

RUSSELL QUAD. - 32

FEET

- 1 2 .6 UE R A, near center of SE $\frac{1}{4}$ sec. 11, T. 71 N., R. 19 W., 11 ft N., and 0.7 ft higher than E. end of a bridge, on E. end of N. concrete railing, a chiseled square 861.60
- 4 1.5 UE R B; near N. sixteenth cor. secs. 13 and 14, T. 71 N., R. 19 W., 54 ft N., 43 ft W. and 0.9 ft lower than I-rd. N., on W. end of a corrugated culvert, a cut X 995.21

MYSTIC QUAD. - 31

- 7 2.1 UE R D; about 0.1 mi N. of W. sixteenth cor. sec. 13 and 24, T. 71 N., R. 19 W., and 1.7 ft lower than center-line of rd., in center of W. headwall of a concrete box culvert; a chiseled square 906.99
- 9 2.6 RM, about 443 ft NW. of tablet, 10 ft N. and 33 ft W. of a field entrance, on N. end of a corrugated culvert, a cut "X" 1001.74
- 10 2.7 BM, Melrose; 2.7 mi S. and 2.7 mi E. of; about 0.3 mi W. of center sec. 24, T. 71 N., R. 19 W., about 177 ft S.-SW. of "Y" fork in rd., 31 ft S., 37 ft E. and 0.8 ft lower than rd. at fence W., 16 ft S. and 9 ft E. of a fence corner, 1 ft W. of a power pole, on a copper coated steel rod; a standard tablet stamped "1 KEE 1979" 1001.386
- 4 3.6 UE 1 KEE C, about 600 ft S. of I-rd. W., in NW $\frac{1}{4}$ sec. 25, T. 71 N., R. 19 W., 30 ft W. and 5.5 ft lower than rd. at drain, 4 ft E. of W. end of a 48-in. corrugated culvert, a cut "X" 936.43
- 18 4.7 UE 1 KEE D, 131 ft W., 23 ft S. and 4.6 ft lower than I-rd. N., 1 mi N. and 0.2 mi E. of "2 KEE 1979" 980.24

RUSSELL QUAD. - 32

- 21 5.9 RM, 42 ft N. and 180 ft W. of BM, 41 ft S. and 44 ft E. of private drive S., 1 ft W. of E. end of a 14-in. corrugated steel culvert; a copper nail and washer 976.44
- 22 5.9 BM, 2 KEE 1979, Melrose; 5.6 mi S. and 2.5 mi E. of, 2.5 mi W. of Iconium, at $\frac{1}{4}$ cor. secs. 1 and 2, T. 70 N., R. 19 W., 86 ft S., 28 ft E. and 1.8 ft lower than I-rd. S. at offset x-rds. 5 ft S.-SW. of a telephone switching box; 1.5 ft W. of a witness post, on a copper coated steel rod; a standard tablet stamped "2 KEE 1979" 979.358
- 24 6.5 BM, Iconium; 2.5 mi W. and 0.6 mi S. of; 381 ft S., 35 ft E. and 21 ft lower than drive W., 5 ft E. of N.-S. fence, 2 ft N. of a witness post, in a concrete post a U.S. Corps of Enrs. disk stamped "AP 690 A 1973" 965.134

MYSTIC QUAD. - 31

- 30 7.6 Walnut City, 2.5 mi N. and 3.0 mi W. of; T. 70 N., R. 19 W., near quarter cor. between secs. 23 and 24; 705 ft S., 39 ft E. and 21.5 ft higher than Crossroads, 290 ft SE. of SE. cor. of North Bend Christian Church; 2 ft W. of right-of-way fence, in a concrete post; a standard tablet stamped "2 KED 1965" 998.197

LINE 5

Keeps, 1979; Book CV-3530

RUSSELL QUAD. - 32

- 1 34 0.0 NGS BM R-111 1935 (described in line 4)

856.793

LINE 5 (Cont'd)

RUSSELL QUAD. - 32

FEET

1 37 1.6 UE R 3, near center sec. 2, T. 71 N., R. 19 W., 44 ft S., 17 ft E. and 5.1 ft lower than rd. at drive S. on E. end of a corrugated culvert a copper nail and washer 954.06

MYSTIC QUAD. - 31

40 3.6 UE R 5, near center of sec. 1, T. 71 N., R. 19 W., 35 ft N., 23 ft E. and 2.7 ft lower than rd. at drive S., 0.5 ft E. of W. end of a corrugated steel culvert at a field entrance N., a copper nail and washer 925.10

41 4.3 RM, 30 ft N. & 110 ft W. of tablet, 0.5 ft E. of W. end of concrete railing of bridge, a chiseled square 845.13

42 4.3 BM, Melrose, 3.7 mi E. of, in SW $\frac{1}{4}$ of sec. 6, T. 71 N., R. 18 W., at a concrete bridge over Contrary Creek, 55 ft E. and 15 ft S., and 1.7 ft lower than centerline of bridge, set in concrete footing of bridge, a standard tablet stamped "3 KEE 1979" 842.301

45 5.1 UE 3 A, near center of sec. 6, T. 71 N., R. 18 W., 16 ft N., 31 ft E. and 1.8 ft lower than T-rd. E., an "X" on N. end of a corrugated culvert 943.16

ALBIA QUAD. - 52

8 6.2 UE 3 C, near $\frac{1}{4}$ cor. secs. 31 and 36, T. 72 N., R. 18 and 19 W., 53 ft W. and 4.1 ft lower than drive W., 17 ft N. of centerline of drive W., on N. end of a corrugated culvert an "X" 972.15

ISOLATED BENCH MARKS

SEYMOUR QUAD. - 11

T. 69 N., R. 19 W., near SE. cor. sec. 27, on Hwy. 3, 175 ft W. of T-rd. S.; 12 ft N. of center of pavement; 47 ft E. of station 218, on top of W. curb of flume; chiseled square 1000.43

T. 69 N., R. 19 W., near center S $\frac{1}{2}$ sec. 27, 50 ft N. and 55 ft W. from center of crossroads, 40 ft W. from corner fence post, 1.5 ft S. of fence, in top of concrete post; standard tablet stamped "TI 31 E 1933" 964.069

Reference mark, 50 ft S., 30° W. from tablet; on S. side of pavement, on E. curb of flume; chiseled square 964.32

T. 69 N., R. 19 W., at center of sec. 28, 20 ft N. and 50 ft W. of intersection of N.-S. rd. with center of pavement of Hwy. 3, at station 133, on S. curb of pavement; chiseled square 1003.86

T. 69 N., R. 19 W., center of sec. 29, in SW. corner of crossroads, 30 ft S. and 36 ft W. of center of crossroads, in center of concrete post; right-of-way marker 1041.54

T. 69 N., R. 19 W., at $\frac{1}{4}$ cor. between secs. 29 and 30, in SW. corner of Little Flock churchyard, 30 ft N. and 30 ft E. from center of crossroads, 3 ft N. and 6 ft E. from telephone pole; in top of concrete post; standard tablet stamped "TI 30 E 1933" 1031.761

Reference mark, 35 ft E. and 50 ft N. of tablet; on lower concrete step to church; on E. end, by handrail post; chiseled square 1036.61

ISOLATED BENCH MARKS (Cont'd)

SEYMOUR QUAD. - 11

FEET

- T. 69 N., R. 19 W., 325 ft E. of W $\frac{1}{2}$ cor. sec. 30, at County line, on N. side of pavement on Hwy. 3; on top of W. curb of flume; chiseled square 1037.66
- T. 69 N., Rs. 20 W., at center of sec. 26; 20 ft N. and 165 ft W. of center of crossroads; on N. headwall of concrete culvert; top of bolt 1028.01
- Promise City, W. edge of, 39 ft N. and 210 ft E. of center of Hwy. 3 crossing C.B. & Q. RR., 6 ft S. and 40 ft E. of center of track at point of switch 6 ft N. of N. edge of sidewalk, in top of concrete post; standard tablet stamped "TI 29 E 1933 1055" 1055.800
- T. 69 N., R. 20 W., 600 ft E. of quarter cor. between secs. 28 and 29, on E. wall of throat of concrete flume; chiseled square 1048.04
- T. 69 N., R. 20 W., about 0.35 mi E. of quarter cor. between secs. 29 and 30; in S. headwall of concrete culvert; chiseled square 1056.37

RUSSELL QUAD. - 32

- T. 69 N., R. 20 W., about 0.25 mi W. of cor. secs. 19, 20, 29 and 30; 36 ft S. thence 21 ft E. of intersection of rd. fork E.; 45 ft N. of N. rail of C.B. & Q. RR., in top of concrete post; standard tablet stamped "TI 28 E 1933" 992.623
- erence mark, 400 ft E. along hwy. from post; on S. side of rd.; on concrete flume; chiseled square 999.312
- T. 69 N., Rs. 20 and 21 W., near cor. secs. 19, 24, 25 and 30; in SW. wingwall of steel bridge over Jackson Creek; 3 ft S. of SW. corner of bridge; chiseled square 965.02
- T. 69 N., R. 21 W., near cor. secs. 22, 23, 26 and 27; 30 ft S., thence 21 ft E. of T-rd. N.; (rd. E.-W. is State Hwy 3) 30 ft S. and 36 ft E. of T-rd. S. and 24 ft E. of corner fence post; in top of concrete post; standard tablet stamped "TI 24 E 1933" (Not Found, probably destroyed 6-65) 1059.664
- Melrose, village of; 113 ft E. of E. end of depot; 16 ft N., thence 25 ft E. of center of rd. crossing N. track of C.B. & Q. RR. in top of concrete post; standard tablet stamped "11 E 1933" (Elev. by USC&GS) (Not Found 3-79 AJK) 869.585
- Reference mark, 160 ft E. of post, on N. side of concrete base of water stand pipe; on N. side of track; chiseled square (Not Found) 870.24
- T. 71 N., R. 19 W., S. half of sec. 3, 1.0 mi E. of Melrose station of C.B. & Q. RR. on S. side of main track; on concrete base of block signal S 3178, on NE. cor.; chiseled square (Not Found) 863.92
- T. 71 N., R. 19 W., on sec. line between secs. 13 and 14; approx. 0.25 mi S. of cor. secs. 11, 12, 13 and 14; T-rd. W.; on E. side of N.-S. rd., 1 ft W. of E. fence; 2.5 ft S. of center of rd. W.; 18 ft S. of S. line of house on E. side of rd.; standard tablet stamped "12 E 1933" (Not Found 3-79 AJK) 896.731

HYSTIC QUAD. - 31

- T. 1 N., Rs. 18 and 19 W., 40 ft NW. of crossroads, at quarter cor. between secs. 19 and 24; 10 ft NE. of cor. in concrete post; standard tablet stamped "PTS 1 1923 MAC" (Not Found)

ISOLATED BENCH MARKS (Cont'd)

MYSTIC QUAD. - 31

FEET

- T. 71 N., R. 18 and 19 W., on township line; between secs. 25 and 30, about 0.3 mi N. of SE. cor. of sec. 25; on pile trestle bridge over channel change, on E. end of crosstod cap S. Bulkhead; copper nail and washer 901.57
- T. 70 N., Rs. 18 and 19 W., 900 ft S. and 400 ft E. of quarter cor. between secs. 1 and 6; 300 ft NE. of O.L. Collin's house, 8 ft NW. of black oak tree; in concrete post; standard tablet stamped "PTS 2 1923 MAC" (Not Found 6-65 KED) 993.260

RUSSELL QUAD. - 32

- T. 70 N., R. 19 W., at quarter cor. between secs. 1 and 2; at SE. corner of crossroads; on top of center of concrete headwall of culvert; chiseled square (Destroyed) 976.60
- T. 70 N., R. 19 W., on line between secs. 11 and 12; near quarter cor. on SE. concrete wingwall of steel bridge over dry run; on E. side of SE. end of truss; chiseled square 893.77
- T. 70 N., R. 19 W., 60 ft SW. of crossroads; at quarter cor. between secs. 23 and 24; 250 ft N. of schoolhouse; in concrete post; standard tablet stamped "PTS 27 1923 MAC" (Intersection widened and post appears to have been destroyed) 979.260
- Reference mark, on cement platform in front of N. Bond School; 205 ft S. of post; on S. edge of platform; 1 ft from building; chiseled square (Not Found) 982.68
- 69 N., R. 19 W., on line between secs. 11 and 12; near $\frac{1}{2}$ corner; at S. branch of Wolf Creek; on W. side of rd.; on headwall of 4 ft pipe culvert; 18 ft SE. of N. end; chiseled square 955.76
- T. 69 N., R. 19 W., on section line between secs. 13 and 14; about 0.11 mi N. of quarter cor.; 1.5 ft S. from N. end of concrete headwall of 42-in. pipe culvert; on W. side of N.-S. rd.; chiseled square (Reported not found) 961.87
- T. 69 N., R. 19 W., about 105 ft N. of quarter cor. between secs. 23 and 24; 210 ft S. of C.B. & O. RR. crossing; 15 ft E. of center of rd. and 2 ft from fence; in concrete post; standard tablet stamped "PTS 29 1923 MAC" (Destroyed 6-65 KED) 1017.808
- T. 69 N., R. 19 W., on line between secs. 25 and 26; about 0.3 mi S. of corner to secs. 23, 24, 25 and 26; at bridge over Walnut Creek; on E. side of bridge on SE. rivet head in steel "I" beam cap over piling at S. end of bridge (Not found) 914.99
- T. 70 N., R. 21 W., 890 ft N. of cor. of secs. 11, 12, 13 and 14; 0.25 mi S. of Maple Grove School; 29 ft N., thence 27 ft E. of private T-lane E. to Earl Stocks farm house 1.5 ft W. of hedge fence; in top of concrete post; standard tablet stamped "TT 6 E 1933" 1054.997
- T. 70 N., R. 20 W., center sec. 17, 17 ft N., 54 ft W. of T-rd. N.; 72 ft W. of small wooden bridge; 1.5 ft S., thence thence 40 ft W. of corner fence post; in top of concrete post; standard tablet stamped "TT 7 E 1933" (Not found 6-65 KED) (Not Found 8-66 RLH) 991.097
- Reference mark, 10 ft N. and 60 ft W. of post; 9 ft W. of E. end of retaining wall; chiseled square 1001.90
- Confidence, 0.5 mi W. of, at the Confidence cemetery, near the quarter corner between secs. 14 and 15, T. 70 N., R. 20 W., 51 ft S., 88 ft E. and 11.6 ft higher than T-rd. N. at offset crossroads, 51 ft S. and 68 ft W. of cross drives to N.-S. parts of Confidence Cemetery, 13 ft S. and 2 ft E. of a corner fence post, in concrete post standard tablet stamped "TT 8 E 1933" 1010.360

ISOLATED BENCH MARKS (Cont'd)

FEET

T. 70 N., R. 19 W., 60 ft SW. of crossroads; at quarter cor. between secs. 23 and 24; 250 ft N. of schoolhouse; in concrete post; standard tablet stamped "PTS 27 1923 MAC" (Intersection widened believed destroyed) (Not Found 6-65 KED) 979.240

CORYDON QUAD. - 33

T. 71 N., R. 21 W., near quarter cor. between secs. 2 and 3; 84 ft S. and 24 ft E. of center of crossroads; 30 ft S. and 6 ft E. of telephone pole; at SE. angle of rd.; in top of concrete post; standard tablet stamped "TT 3 E 1933 1034" (Destroyed 6-65 KED) 1034.234

T. 71 N., R. 21 W., in quarter cor. between secs. 15 and 22; 87 ft S. thence 25 ft E. of T-rd. W.; 2 ft N. thence 2 ft E. of corner fence post; in concrete post; standard tablet stamped "TT 4 E 1933 1030" (Destroyed 6-65 KED) 1030.038

Millerton, 3.5 mi N. and 2.5 mi E. of, near the quarter corner between secs. 3 and 34, Tps. 70 and 71 N., R. 21 W., 56 ft S., 35 ft W. and 7.8 ft lower than T-rd. W., 44 ft S. and 35 ft W. of T-rd. E., 2 ft E. of a fence; in concrete post; standard tablet stamped "TT 5 E 1933" 997.845

Corydon, about 0.5 mi N. and 1.75 mi E. of; on cultivated land owned by I. Y. Miles of Corydon; 175 ft W. of NE. cor. sec. 20; T. 69 N., R. 21 W., 153 ft W. of section rd. fence; 69 ft S. of center of section-line rd.; 48 ft S. of section-line rd. fence; 410 ft W. of C.B. & Q. RR.; in concrete post set 20-in. below surface of ground; USC&GS disk "1928" 1082.443

reference mark 1, about 246 ft S. of section corner; 1 ft from W. fence; 17 ft W. of center of rd. 1083.38

T. 69 N., R. 21 W., near cor. secs. 20, 21, 28 and 29; 720 ft E. from crossroads; on concrete bridge across Jackson Creek; in center of hand rail on N. side; chiseled square 1009.43

T. 69 N., R. 21 W., in cor. secs. 21, 22, 27 and 28; 14 ft N. and 40 ft W. from center of crossroads; 10 ft S. and 10 ft W. from telephone pole; on N. headwall of concrete culvert; chiseled square 1076.47