

THIRD-ORDER LEVELS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

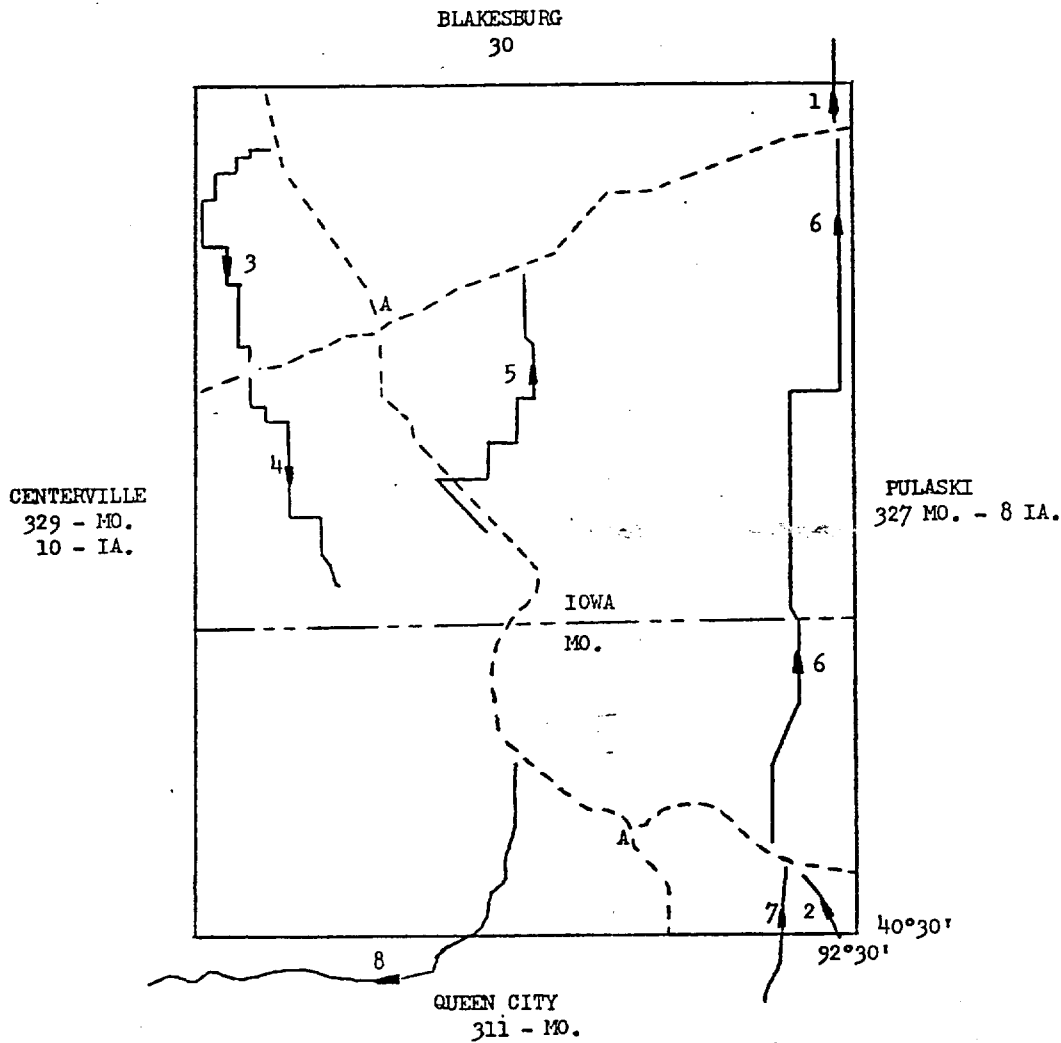
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

40-092-42
MOULTON QUADRANGLE
328 - MISSOURI
~~9 - IOWA~~
N4030-W9230/15
DIAGRAM NK 15-11
CENTERVILLE

Putnam and Schuyler Counties, Missouri
Appanoose and Davis Counties, Iowa

Edition of: 6/6/76

PR: ADP/LB/ob



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

A. Quadrangle No. 400924

9-D

LINE 1

FEET

R.E. Carey, 1955; Book CV-692

MOULTON QUAD. - 9

- 0.0 West Grove, 3 mi E. along the Wabash R.R. from; about 0.5 mi W. of milepost 25, at the junction of U.S. Hwy. 63 and State Hwy. 3, 89 ft NW. of the center of U.S. Hwy. 63 at station 3671, 32 ft S. of the center of track, and about 6-in. under ground, a standard tablet stamped "903.702 M 7 1930" and set in the top of a concrete post. (USC&GS post) 903.774

BLAKESBURG QUAD. - 30

- T. 69 N., R. 14 W., about 0.25 mi S. of cor. secs. 19, 20, 29 and 30, 20 ft W. of N.-S. road, and in line with road E., 3 ft E. of wire fence in concrete post; bronze tablet stamped "PTS 36 1923 MAC 898" 897.440

LINE 2

R.M. Brown, 1964; Book CV-1646

MOULTON QUAD. - 328

- 9.8 UE, 2 mi NW. of tablet; near E. sixteenth cor. between secs. 19 and 30; T. 66 N., R. 14 W., 16 ft S., 43 ft W. and 4.2 ft higher than a T-rd. E.; in the NW. side of a power pole; a R.R. spike 951.17
- 10.4 UE 2.6 mi NW. of tablet, in W. central portion of sec. 19, T. 66 N., R. 14 W., 12 ft SW. (normal) and same elev. as road at a large double culvert; in the center of SW. headwall; a chiseled square 861.05
- 1.6 Lancaster, at in the SW. corner of County courthouse ground, at a street intersection, 51 ft N. of the center of State Hwy. 4; 51 ft W. of the center of N.-S. street, and 0.5 ft higher than ground, a USGS standard cap stamped "PTS 3 1910 M0" and riveted on the top of an iron pipe. (USC&GS elev.) 967.455
- 12.0 Lancaster at, on the C.B. & Q. R.R., 100 ft E. of E. end of station; 42 ft N. of the center of the track, 3 ft S. of a pole, and 1 ft lower than the track; a USC&GS standard disk stamped "R 86 1935" and set in top of a concrete post 965.425
- 12.7 UE, 0.7 mi W. of tablet; in the SE. cor. sec. 14, T.-66 N., R. 15 W., 11 ft N., 12 ft W. and 0.1 ft lower than county road "AA" at a small concrete bridge; in the NW. wingwall; a chiseled square 885.82
- 13.7 UE, 1.7 mi W. of tablet; in the SE. cor. sec. 15, T. 66 N., R. 15 W., 20 ft SE., 46 ft SW. and 0.6 ft lower than a road fork; on W. end of an iron pipe culvert; a rivet 926.65
- 14.4 Glenwood at; on the Wabash R.R., 4.5 poles SE. of the station, in the top of the W. end of the N. abutment of bridge 2059 over a hwy., 9 ft SW. of the center of track, and level with the track; a USC&GS standard disk stamped "W 83 1935" 987.760

LINE 3

J.E. Brandner, 1976; Book CV-3258

MOULTON QUAD. - 328 MO. 9 IA.

- 1 2 0.0 Moulton, 3 mi N. and 2 mi W. of; 6.5 mi S. and 1 mi W. of Unionville, Ia., in Appanoose County, near cor. of sec. 4, 5, 32 and 33, Ts. 68 and 69 N., R. 16 W., four poles NW. of milepost 247 on Wabash R.R., 66 ft S. and 42 ft E. of private road crossing and 4 ft lower than tack, a standard USC&GS disk set in top of a concrete post and stamped "D 120 1935" 989.604

LINE 3 (Cont'd)

MOULTON QUAD. - 328 MO. 9 IA. FEET

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|----|-----|--|--|--------|
| 1 | 3 | 0.8 | UE D 120 A 1975, 0.8 mi W. of tablet, near W. sixteenth cor. between secs. 5 and 32, Ts. 68 and 69 N., R. 16 W., 9 ft S. and 9.7 ft higher than drain, in the S. headwall of box culvert; a chiseled square; painted white | 943.12 |
| 6 | 1.5 | UE D 120 B, 1975, 1.5 mi W. of tablet, near quarter cor. between secs. 5 and 32, T. 68 and 69 N., R. 16 W., 41 ft S. and 98 ft W. of T-rd. E., on top of NE. bolt of concrete base of water well; painted white | 983.62 | |
| 9 | 2.6 | BM, Moulton; 2.3 mi N. and 3.7 mi W. of; 6.7 mi S. and 2.7 mi W. of Unionville, Ia., near center of sec. 6, T. 68 N., R. 16 W., 65 ft N. and 25 ft W. of center of overpass, 25 ft S. and 25 ft W. of T-rd. NE., 4 ft W. of anchor pole, 12 ft S. and 10 ft E. of corner fence post, a standard cap supported by copper coated steel rods and stamped "1 JES 1975" | 938.538 | |
| 10 | 2.6 | Reference mark 1, on top of head of bolt, painted white, in W. wheelguard of bridge overpass, 0.7 ft higher than centerline of bridge, 65 ft S. and 12 ft W. of centerline of bridge, 126 ft S. and 13 ft E. of tablet | 938.68 | |
| 11 | 2.9 | UE 1 A 1975, 0.3 mi S. of tablet, near W. sixteenth cor. of secs. 6 and 7, Ts. 60 N., R. 16 W., 10 ft W. of centerline of bridge, 16.3 ft higher than water, 0.9 ft higher than centerline of bridge, a chiseled square painted white on W. wheel guard of bridge T. 60 N., | 862.02 | |
| 13 | 4.1 | UE 1 B 1975, 1.7 mi S. of tablet, in the NW $\frac{1}{4}$ of sec. 18, R. 16 W., 23 ft N. and 49 ft E. of Y-rd., a punched hole painted white on a 24-in. corrugated metal culvert | 852.41 | |
| 17 | 4.9 | UE 1 C 1975, 1.7 mi S. and 0.8 mi E. of tablet, near W. sixteenth cor. of secs. 17 and 18, Ts. 68 N., R. 16 W., 46 ft N. of T-rd. S. on S. side of power pole, 0.5 ft above ground, a bolt painted white | 967.91 | |
| 19 | 5.7 | UE 1 D 1975, 2.5 mi S. and 0.8 mi E. of tablet, near cor. of secs. 17, 18, 19 and 20, T. 68 N., R. 16 W., 35 ft S. and 138 ft W. of T-rd. W., on top of a 48-in. corrugated metal culvert; a punched hole; painted white | 855.65 | |
| 22 | 6.6 | UE 1 E 1975, 0.4 mi N. of tablet, in SW $\frac{1}{4}$ of sec. 20, T. 68 N., R. 16 W., 136 ft N. and 47 ft E. of T-rd. NE., on top of S. headwall of box culvert on abandoned road; a chiseled square | 868.012 | |
| 23 | 6.9 | BM, Moulton, 1.2 mi S. and 2.7 mi W. of; 0.2 mi S. and 1.4 mi E. of Sedan; in the NW $\frac{1}{4}$ of sec. 29, T. 68 N., R. 16 W., 13 ft S. and 43 ft W. of centerline of road, at old R.R. crossing, 1 ft N. of witness post and 1 ft E. of fence, a standard cap set in the top of a concrete post and stamped "S 7 RESET 1971" | 851.121 | |

LINE 4

J.E. Brandner, 1976; Book CV-3258

MOULTON QUAD. 328 MO. - 9 IA.

Note: This line ties to Isolated Bench Marks.

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|----|-----|--|--|---------|
| 1 | 25 | 0.0 | "S 7 RESET 1971" (Described in Line 3) | 851.121 |
| 25 | 0.7 | UE S 7 A 1975, 0.7 mi S. of tablet, in the SW $\frac{1}{4}$ of sec. 29, T. 68 N., R. 16 W., 31 ft S., of centerline of road at culvert, on top of a 36-in. corrugated metal culvert, a punched hole; painted white | 828.94 | |
| 28 | 1.7 | UE S 7 B 1975, 0.9 mi S. and 0.8 mi E. of tablet, near cor. of secs. 28, 29, 32 and 33, T. 68 N., R. 16 W., 100 ft SW. and 52 ft NW. of T-rd. W., a steel rod level with ground | 953.95 | |

<u>LINE 4 (Cont'd)</u>		<u>MOULTON QUAD. 328 Mo. - 9 Ia.</u>	<u>FEET</u>
1 30	2.3	UE S 7 C 1975, 1.5 mi S. and 0.8 mi E. of tablet, near quarter cor. of secs. 32 and 33, Tps. 68 N., R. 16 W., 29 ft W. of centerline road at box culvert, on top of W. headwall, a chiseled square; painted white	849.14
32	3.2	BM, Moulton, 3.6 mi S. and 2 mi W. of; 0.25 mi N. of Dean, about 400 ft S. of quarter cor. of secs. 4 and 5, T. 67 N., R. 16 W., 21 ft N. and 15 ft W. of centerline bridge, 1 ft higher than center of bridge; 10.4 ft higher than water, on NW. wingwall, a standard cap cemented into and stamped "2 JES 1975"	835.532
33	3.3	Reference mark 2, a chiseled square painted white on the SE. wingwall of bridge, 26 ft S. and 17 ft E. of centerline bridge, 47 ft S. and 32 ft E. of tablet	835.49
36	3.7	U 2 A 1975, 0.4 mi S. of tablet, near cor. of secs. 4, 5, 8 and 9, Ts. 67 N., R. 16 W., 30 ft S. and 41 ft E. of crossroads, on W. side of power pole and about 1 ft above ground, a bolt; painted white	830.45
39	4.7	UE 2 B 1975, 0.6 mi S. and 0.8 mi E. of tablet, in the NE $\frac{1}{4}$ of sec. 4, Ts. 67 N., R. 16 W., 42 ft N. and 12 ft E. of center of bridge on top of NE. wooden pole piling of wood bridge, a R.R. spike; painted white	838.70
41	5.6	UE 2 C 1975, 0.3 mi N. of tablet, about 1000 ft S. along a road from cor. of secs. 9, 10, 15 and 16, T. 67 N., R. 16 W., 31 ft S. and 20 ft E. of T-rd. NE., on top of 12-in. corrugated metal culvert, a punched hole; painted white	959.56
43	6.0	BM, Moulton, 5.5 mi S. and 1 mi W. of, 1.6 mi NE. of Coal City, near quarter cor. of secs. 15 and 16, T. 67 N., R. 16 W., 24 ft S. and 37 ft E. of old T-rd. E., in a concrete post, a standard cap stamped "TT 73 JJ 1936"	958.059
44	6.5	UE, 0.96 mi NE. of Coal City, on SW. carriage block at Hilltown Church, a chiseled square	949.900

LINE 5

<u>J.E. Brandner, 1976; Book CV-3258</u>		<u>MOULTON QUAD. 328 Mo. - 9 Ia.</u>	
1 46	0.0	BM, Moulton, 4.5 mi S.-E. along Iowa State Hwy. 202 of; 2 mi S. and 3.2 mi W. of Monterey; in the SE $\frac{1}{4}$ sec. 1, T. 67 N., R. 16 W., 150 ft N. and 12 ft E. of crossroads, 8 ft SE. of fence corner, a standard disk set in top of a concrete post and stamped "J 120 1935"	993.961
46	0.9	UE J 120 A 1975, 0.9 mi N. along State Hwy. 202 from tablet, in the NW $\frac{1}{4}$ of sec. 1, T. 67 N., R. 16 W., 96 ft S.-E. and 21 ft E. of crossroads, on top of a 24-in. concrete culvert; a chiseled square painted white	994.07
49	1.9	UE J 120 B 1975, 0.9 mi NW. along State Hwy. 202, thence 1.02 mi E. and N. along a graveled road, about 500 ft S. of cor. of secs. 1, 6, 31 and 36, T. 67 and 68 N., R. 15 and 16 W.; 20 ft W. of centerline road at culvert, on top of 12-in. corrugated metal culvert, a punched hole; painted white	964.44
51	3.1	BM, Moulton, 2.5 mi S. and 2.5 mi E. of; 0.5 mi S. and 2 mi W. of Monterey; near center of sec. 30, T. 68 N., R. 15 W., 15 ft N. and 38 ft W. of T-rd. N., ft N. ft E. of fence corner, a standard cap welded to a copper coated rod, surrounded by a tie and stamped "3 JES 1975"	933.274
53	3.1	Reference mark 3, a punched hole on the W. end of a 30-in. corrugated metal culvert painted white, 180 ft N. and 26 ft W. of T-rd. N., 165 ft N. and 12 ft E. of tablet	923.90

LINE 5 (Cont'd)

MOULTON QUAD. - 328 Mo. - 9 Ia. FEET

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|------|-----|--|---------|
| 1 54 | 3.8 | UE 3 A 1975, 0.7 mi N. of tablet, about 1200 ft N. of $S\frac{1}{4}$ cor. sec. 30, T. 68 N., R. 15 W., 26 ft S. and 7 ft E. of N. end of bridge, on top of bottom iron rail, a painted square, 1.2 ft higher than centerline bridge; 18 ft higher than water | 882.60 |
| 58 | 4.5 | UE 3 B 1975, 0.7 mi N. and 0.8 mi E. of tablet, near quarter cor. of secs. 29 and 30, T. 68 N., R. 15 W., 20 ft S. and 17 ft E. of T-rd. N., on top of 18-in. concrete culvert, a chiseled square; painted white | 875.63 |
| 60 | 5.2 | UE 3 C 1975, 1.4 mi N. and 0.8 mi E. of tablet, near S. sixteenth cor. secs. 19 and 20, T. 68 N., R. 15 W., 8 ft E. of centerline bridge, 13 ft above drain and 2 ft higher than center of bridge on top of bolt on center post of bridge | 909.37 |
| 61 | 5.8 | BM, Moulton, 0.5 mi S. and 2.7 mi E. from, 1.5 mi N. and 1.7 mi W. of Monterey, in the NE $\frac{1}{4}$ sec. 19, T. 68 N., R. 15 W., 224 ft SE. and 38 ft S. of Y-rd., 1 ft N. and 1 ft E. of a fence corner, a standard cap supported by copper coated steel rod and stamped "4 JES 1975" | 963.637 |
| 62 | 5.8 | Reference mark 4, a chiseled square painted white on top of an 18-in. concrete pipe culvert, 36 ft SE. and 20 ft NE. of Y-rd. 188 ft NW. and 58 ft NE. of tablet | 964.53 |
| 65 | 6.5 | UE 4 A 1975, 0.8 mi S. and 0.25 E. of tablet, in the SE $\frac{1}{4}$ of sec. 18, T. 68 N., R. 15 W., on top of bottom rail of bridge at center of bridge, 2.5 ft higher than centerline of bridge; 10 ft higher than water in Carter Creek, a painted white square | 918.27 |
| 69 | 7.6 | BM, Moulton, 3 mi N. and 2.5 mi E. from, 2 mi S. and 3.7 mi W. of West Grove; 290 ft S. and 21 ft E. of T-rd. S. near quarter cor. of secs. 7 and 10, T. 68 N., R. 15 W., a standard cap set in the top of a concrete post and stamped "Q 7 1930" | 976.999 |

LINE 6

J.E. Brandner, 1976; Book CV-3258

MOULTON QUAD. 328 Mo. - 9 Ia.

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|------|-----|---|---------|
| 1 71 | 0.0 | BM, at Lancaster, in sec. 13, T. 66 N., R. 15 W., 100 ft E. of concrete foundation of old depot, 42 ft N. and ft E. of crossing and 1 ft lower than track, a standard cap set in the top of a concrete post and stamped "R 86 1935" | 965.425 |
| 75 | 1.5 | UE PTS 3 A 1975, 1.1 mi N. of tablet at SE. cor. of courthouse square, 0.25 mi S. of center of sec. 12, T. 66 N., R. 15 W., 28 ft E. of centerline of road at culvert, 8.4 ft higher than drain, on top of E. headwall of box culvert, a chiseled square; painted white | 884.56 |
| 76 | 1.8 | UE PTS 3 B 1975, 1.4 mi N. of tablet at SE. cor. of courthouse square, near center of sec. 12, T. 66 N., R. 15 W., 13 ft E. of S. end of bridge, 0.6 ft higher than centerline bridge, 13.5 ft higher than water, a chiseled square; painted white | 880.07 |
| 78 | 2.5 | UE PTS 3 C 1975, 2.2 mi N. of tablet at SE. cor. of courthouse square, at centerline of U.S. Hwy. 63 and T-rd. S., a painted square | 937.1 |
| 80 | 3.3 | BM, Lancaster, 2.9 mi N. along a graveled road and U.S. 63, from the courthouse square in; 6.5 mi S. and 1.2 mi W. of mark, Iowa, in the NE $\frac{1}{4}$ sec. 1, T. 66 N., R. 15 W., 18 ft W. of the S. center of bridge, same elev. as centerline bridge and 22.7 ft higher than water, a standard cap in the SW. pier and stamped "5 JES 1975" | 836.636 |

LINE 6 (Cont'd)

MOULTON QUAD. - 328 MO. - 9 IA.

FEET

2	2	3.4	Reference mark 5, a chiseled square on the S. headwall of a box culvert, 13 ft S. and 77 ft W. of T-rd. E., 145 ft N. and 59 ft W. of tablet	834.12
4	4.5		Lancaster, 4.1 mi N. along a graveled road and U.S. 63 from courthouse square in; near cor. of secs. 25, 30, 31 and 36, T. 66 and 67 N., R. 14 and 15 W., ft S. and ft E. of road at drive, ft S. and ft W. of gate corner post, a standard cap cemented into a concrete post and stamped "SMALL 1934 RESET 1970"	954.789
7	5.7		BM, Lancaster, 5.2 mi N. along a graveled road and U.S. 63 from courthouse square in; 4.5 mi S. 0.75 mi W. of mark; near cor. secs. 13 and 18, T. 67 N., R. 14 and 15 W., 375 ft W. and 33 ft N. of centerline of U.S. 63 and county gravel roads, a standard cap set in the top of a concrete post and stamped "SMALL 1934 USC&GS"	959.122
8	5.7		Reference mark 2, a standard tablet set in top of a concrete post; 114 ft E. of station "SMALL", 21 ft N. and 260 ft W. of U.S. 63 and County graveled roads, on Iowa-Missouri state line	957.21
10	7.0		UE SMALL A 1975, 1.3 mi N. along U.S. 63 from tablet, about 300 ft N. of cor. of secs. 7, 12, 13 and 18, Ts. 67 N., R. 14 and 15 W., on top of E. concrete headwall of box culvert, 95 ft E. of road at culvert and 12 ft higher than drain, a chiseled square; painted white	848.68
12	7.4		UE SMALL B 1975, 1.8 mi N. along U.S. 63 from tablet, near quarter cor. of secs. 7 and 12, T. 67 N., R. 14 and 15 W., on top of 24-in. concrete culvert, 31 ft S. and 178 ft W., of T-rd. W., a chiseled square; painted white	897.23
14	8.5		BM, Lancaster, 5.3 mi N. along a graveled road and U.S. 63 from courthouse square in, 6.5 mi S. and 1.7 mi E. along State 2 and U.S. 63 from West Grove; near quarter cor. of secs. 1 and 6, T. 67 N., R. 14 and 15 W., 23 ft E. of S. end of bridge; 35 ft higher than water in creek, 1 ft higher than centerline of bridge, a standard cap in the SE. wheelguard of bridge and stamped "6 JES 1975"	841.076
15	8.6		Reference mark 6, a chiseled square on the NW. wheelguard of bridge, 23.5 ft W. of N. end of bridge, 203 ft N. and 46.5 ft W. of tablet	839.38
18	9.5		UE 6 A 1975, 1.1 mi N. of tablet, near quarter cor. of secs. 31 and 36, T. 68 N., R. 14 and 15 W., on top of N. end of 24-in. metal culvert, 23 ft N. and 68 ft E. of crossroads, a punched hole; painted white	902.35
19	10.4		UE 6 B 1975, 2.1 mi N. of tablet, near quarter cor. of secs. 25 and 30, T. 68 N., R. 14 and 15 W., on top of concrete Island which contains a stop sign at intersection of U.S. 63 and county road J 51, 15 ft N. and 27 ft E. of centerline of crossroads, 0.5 ft higher than roadway, a chiseled square; painted white	928.30
20	11.4		BM, Lancaster, 7.4 mi N. along a graveled road and U.S. 63 from courthouse square and 1 mi E. along old U.S. 63 in; 0.5 mi E. of mark, near quarter cor. secs. 29 and 30, T. 68 N., R. 14 W., 23 ft N. and 197 ft E. of Y-rd. in the SW. corner of churchyard, a standard cap supported by copper-coated rods and surrounded by a tile filled with rock and stamped "7 JES 1976"	910.844
21	11.4		Reference mark 7, a chiseled square on the SW. landing of front step of church, 46 ft N. and 386 ft E. of Y-rd., 23 ft N. and 189 ft E. of tablet	909.24
24	12.5		UE 7 A 1976, 1.1 mi N. of tablet, near quarter cor. of secs. 19 and 20, T. 68 N., R. 14 W., 14 ft E. of centerline of road at drain, 0.5 ft lower than centerline of road at culvert; a chiseled square painted white on top of concrete waterway	877.74

LINE 6 (Cont'd)

MOULTON QUAD. - 328 MO. - 9 IA.

FEET

- 2 25 13.1 UE 7 B 1976, 1.7 mi N. of tablet, about 600 ft N. of cor. of secs. 12, 18, 19 and 20, T. 68 N., R. 14 W., 36 ft N. and 10.5 ft E. of S. of bridge, 13.2 ft higher than water in Carter Creek, 0.6 ft higher than centerline of bridge, a chiseled square on E. wheelguard and painted white 844.14
- 28 14.1 Reference mark 8, a punched hole painted white on top of a 24-in. corrugated metal culvert, 25 ft N. and 58 ft E. of T-rd. W., 25 ft N. and 104 ft W. of tablet 916.33
- 29 14.1 BM, Lancaster, 9.1 mi N. along a graveled road and U.S. 63 and 1 mi E. of courthouse square in; 1.8 mi S. and 2.7 mi E. of West Grove, near cor. of secs. 7, 8, 17 and 18, T. 68 N., R. 14 W.; 162 ft E. and in line with T-rd. W., 3 ft N. and 3 ft E. of power pole, 2 ft N. and 2 ft W. of corner gate post; a standard cap supported by copper-coated steel rods and stamped "8 JES 1976" 920.162
- 32 15.2 UE 8 A 1976, 1.1 mi N. of tablet, near cor. of secs. 5, 6, 7 and 8, T. 68 N., R. 14 W., 66 ft N. and 52 ft E. of crossroads, on top of the E. end of 24-in. concrete pipe culvert, a chiseled square; painted white 903.73
- 35 16.2 UE 8 B 1976, 2.1 mi N. along U.S. 63 from tablet, near cor. of secs. 5, 6, 31 and 32, Ts. 68 and 69 N., R. 14 W., 75 ft N. and 118 ft E. of T-rd. W., on the S. end of a 24-in. corrugated metal culvert, a punched hole; painted white 870.54
- 38 17.0 BM, West Grove, 3 mi E. along Wabash R.R. from; 1 mi S. and 4 mi W. along Wabash R.R. from Bloomfield; at junction of U.S. 63 and R.R., 48 ft S. and 102 ft E. of R.R. crossing, in sec. 32, T. 69 N., R. 14 W., 2 ft N. and 2 ft E. of a corner fence post and stamped "M 7 RESET 1973" 902.151

LINE 7

R.D. Blazer, 1975; Book CV-3216

QUEEN CITY QUAD. - 311

- 2 65 13.2 BM, Lancaster, 2.7 mi S. and 0.3 mi W. of; T. 66 N., R. 15 W., about 100 ft N. and about 800 ft W. of the center of sec. 36, 26 ft N. and 20 ft E. and 2.4 ft higher than centerline of bridge, 34 ft NE. parallel and 14 ft NW. perpendicular to bridge, 1 ft SW. of the NE. end of the top of the NW. headwall of concrete bridge standard tablet set in concrete stamped "9 ROD 1975" 879.214
- 66 13.3 Reference mark, T. 66 N., R. 15 W., about 400 ft N. and about 450 ft W. of the center of sec. 36, 513 ft NE. parallel and 37 ft SE. perpendicular and 1.9 ft lower than centerline bridge, 3.4 ft E. of E. right-of-way fence, on W. side of power pole, a R.R. spike 874.89
- 69 14.2 UE 9 A, T. 66 N., R. 15 W., near the center of sec. 25, 82 ft N. and 18 ft E. and 1.1 ft lower than road at drive W. on N. end of 1 ft steel corrugated culvert, copper nail and washer 977.06

MOULTON QUAD. - 328

- 72 15.2 UE 9 B, T. 66 N., R. 15 W., about 200 ft S. of the center of sec. 24, 60 ft N. and 18 ft E. and at the same elevation as centerline of bridge on NE. wingwall of bridge, a chiseled square 870.72
- 75 16.0 BM, Lancaster at; in the SE. cor. of county courthouse ground, at the street intersection; 51 ft N. of the center of State Hwy. 4, 51 ft W. of the center of N.-S. street and 0.5 ft higher than ground, a USGS standard cap stamped "PTS 3 1910 MO" and riveted on the top of an iron pipe, USC&GS elev. 967.455

LINE 8

FEET

J.P. Carey, 1975; Book CV-3218

MOULTON QUAD. - 328

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|---|-----|-----|--|---------|
| 5 | 1 | 0.0 | BM, 2.5 mi SE. along the Wabash R.R. from the station at Coatsville, Schuyler County, 4 poles NW. of milepost 233 at a private road crossing, 60 ft NW. of road and 42 ft S. of centerline of R.R. track, 4 ft lower than track, a disk stamped "T 83 1935" and set in concrete post | 982.738 |
| 3 | 1.4 | | UE T 83 A, Glenwood, 3 mi W. and 1 mi N. of; T. 66 N., R. 15 and 16 W., near the W. sixteenth cor. between secs. 7 and 18, 656 ft N., 16 ft W. of T-rd. W., in top of 4 ft galvanized culvert; a copper nail and washer | 960.10 |
| 6 | 2.6 | | Glenwood, 3 mi W. of, about 0.1 mi E. of cor. secs. 13, 18, 19 and 24, T. 66 N., Rs. 15 and 16 W., 53 ft E. of N.-S. road, 52 ft N. of centerline of T-rd. E., concrete post standard tablet stamped "PTS 4 RESET 1968" | 995.556 |
| 8 | 3.8 | | UE PTS 4 A, Glenwood, 3 mi W. and 1 mi S. of; T. 66 N., about 400 ft N. and 900 ft E. of quarter cor. between secs. 24 and 25, 19 ft N., 12 ft E. and 1.9 ft lower than road at fence S., in top of 12-in. galvanized culvert a copper nail and washer | 962.13 |

QUEEN CITY QUAD. - 311

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|----|-----|--|---------|
| 11 | 5.1 | UE PTS 4 B, Glenwood, 4 mi W. and 1.5 mi S. of; T. 66 N., R. 16 W., about 1700 ft W. of quarter cor. between secs. 25 and 26, 100 ft N. and 22 ft E. of road opposite building W., in top of a 12-in. galvanized culvert, a copper nail and washer | 966.37 |
| 15 | 6.3 | Livonia, 1 mi E. of along U.S. Hwy. 136, T. 66 N., R. 16 W., about 1200 ft S. of cor. of secs. 26, 27, 34 and 35, 1200 ft E. of T-rd. S., 24 ft N. of road at drain; in the center of a concrete culvert headwall, a standard tablet stamped "32 JCY 1975" | 872.412 |
| 18 | 7.7 | UE 32 A, at Livonia, T. 66 N., R. 16 W., about 500 ft S. and 500 ft W. of E. sixteenth cor. between secs. 28 and 33, 49 ft N., 10 ft E. and 3 ft lower than T-drive N., in the SE. cor. of a concrete culvert; headwall; a chiseled square | 800.28 |
| 21 | 8.7 | UE 32 B, Livonia, 1 mi W. of along U.S. Hwy. 136, T. 66 N., R. 16 W., near the E. sixteenth cor. between secs. 24 and 32, 600 ft W. and 42 ft N. of T-rd. S., in the NE. cor. of a concrete culvert headwall, a chiseled square | 920.95 |
| 23 | 9.9 | BM, Livonia, 2 mi W. of, along U.S. Hwy. 136, T. 66 N., R. 16 W., about 700 ft S. of quarter cor. between secs. 30 and 31, 17 ft S. and 60 ft E. of centerline bridge, in the SE. cor. of the bridge over "BRUSH CREEK", a standard tablet stamped "33 JCY 1975" | 827.766 |
| 25 | 9.9 | Reference mark is in the NE. cor. of bridge over Brush Creek, a chiseled square | 828.73 |

GREEN CITY QUAD. - 312

- | | | | |
|----|------|---|---------|
| 28 | 11.3 | UE 33 A, Livonia, 3 mi W. of along U.S. 136, at Glendale, T. 66 N., Rs. 16 and 17 W., about 1000 ft E. of cor. of secs. 25, 26, 35 and 36, 350 ft W. of 26 ft N. of T-rd. N., in the NW. cor. of a concrete culvert headwall; a chiseled square | 824.92 |
| 30 | 12.4 | BM, Hartford, 2 mi E. of, T. 66 N., R. 17 W., about 1200 ft E. of quarter cor. between secs. 34 and 35, 283 ft E. and 88 ft S. of road at drive S., in the center of concrete culvert headwall, a standard tablet stamped "34 JCY 1975" | 847.554 |
| 32 | 12.5 | Reference mark is 335 ft NW. of tablet, 19 ft W. and 43 ft N. of road at drive S., in top of 12-in. galvanized culvert; a copper nail and washer | 875.44 |

ISOLATED BENCH MARKS

FEET

T. 66 N., Rs. 16 and 17 W., 0.2 mi N. of cor. secs. 19, 24, 25 and 30, 10 ft W. of road corner, N.-E., 20 ft N. and 18 ft E. from fence corner; iron post stamped "PTS 13 1910 MO 848"	847.866
T. 66 N., R. 16 W., in SE $\frac{1}{4}$ sec. 16, 21 ft S. and 36 ft E. from road corner, S.-E.; 650 ft N. and 36 ft E. from T-rd. W.; 33 ft W. of Chicago, Burlington and Quincy R.R., in concrete post; standard tablet stamped "3 C B 1936" (Destroyed 1939)	815.591
T. 66 N., R. 16 W., in SE $\frac{1}{4}$ sec. 15, on SW. rivet of SW. pier of bridge over Chariton River; chiseled cross	806.27
Glenwood, 3 mi W. of, about 0.1 mi E. of cor. secs. 13, 18, 19 and 24, T. 66 N., Rs. 15 and 16 W., 53 ft E. of N.-S. road, 52 ft N. of center of T-rd. E.; concrete post standard tablet stamped "PTS 4 RESET 1958"	995.463
T. 66 N., R. 15 W., quarter cor. between secs. 20 and 21, 9 ft S. and 16 ft W. from N.-S. crossroad, on headwall of culvert; chiseled square	880.35
T. 66 N., R. 15 W., on line between secs. 16 and 21, 25 ft S. and 5 ft E. from junction of road W., on headwall of culvert; chiseled square	907.78
T. 66 N., R. 15 W., S. sixteenth cor. between secs. 14 and 15, 17 ft N. and 45 ft E. from hwy. at fence N., on headwall of culvert; chiseled square	905.50
Lancaster, in SE. corner of courthouse yard, 51 ft N. of hwy., 51 ft W. of N.-S. street; iron post stamped "PTS 3 1910 MO 967" (USC&GS elev.)	967.455
T. 67 N., R. 16 W., secs. 17 and 18, approx. 0.15 mi S. from T-rd. W., at the quarter cor. between on the NE. wingwall of bridge; chiseled square	830.13
Coal City, Iowa, in village of, 35 ft W. of old I. & St. L. R.R., 6 ft E. and 72 ft N. from the NE. corner of post office, in concrete post; standard tablet stamped "PTS 41 MAC 1923"	839.069
Coal City, Iowa, 0.96 mi NE. of, on SW. corner of carriage block at Hilltown Church; chiseled square	949.97
T. 67 N., R. 16 W., sec. 13, 14, 23 and 24, 0.18 mi W. from the corner of; 148 ft W. and 6 ft S. from center of track and road, on SW. wingwall of bridge; chiseled square	873.74
Coatsville Depot, Missouri, 69 ft E. and 25 ft S. from the NE. corner of, 40 ft E. of track, in concrete post; standard tablet stamped "S 83 1935"	991.609
Coatsville, 66 ft N. of County Route "B" at road NW.; in step of Holiness Church, standard tablet stamped "TT 75 J 1936 992"	991.898
T. 67 N., R. 15 W., fractional sections 21 and 22, (Iowa L.O. System) 16 ft N. of T-rd. S. at the approx. N. cor. of, 480 ft N. from T-rd. W.; of; in concrete post; standard tablet stamped "TT 76 J J 1936"	951.816
T. 67 N., Rs. 14 and 15 W., sec. 13; 34 ft N. of road and S. corner of, on Mo.-Iowa State line, in line with U.S. 63 N., 2 ft E. of fence, in concrete post; standard tablet stamped "SMALL 1934" (USC&GS station - Triangulation)	959.120
T. 69 N., R. 16 W., quarter cor. between SW $\frac{1}{4}$ sec. 30 and the NW $\frac{1}{4}$ sec. 31, 33 ft N. and 15 ft W. from private T-rd. S.; at; on N. side of State Hwy. 3, 2 mi S. of Udell, in concrete post; standard tablet stamped "TT 17 L 1938" (E.T. tablet RESET 1965 in original post) (Use with caution)	922.496
T. 68 N., R. 16 W., on line between secs. 6 and 7, 16 ft N. and 9 ft W. from center of concrete bridge with steel framework; on top of NW. concrete wingwall; chiseled square	855.45

10
40-092-42
MOULTON QUADRANGLE
328 - MISSOURI
9 - IOWA

ISOLATED BENCH MARKS

FEET

T. 68 N., R. 16 W., in center of NW $\frac{1}{4}$ sec. 18, 18 ft S. of T-rd. N.; 2.5 mi N. and 1 mi E. of Sedan in concrete post; standard tablet stamped "TT 18 L 1938"	852.756
T. 68 N., R. 16 W., cor. sec. 17, 18, 19 and 20, 10 ft N. and 213 ft W. of T-rd. W.; at; on concrete bridge, on top of NW. corner of N. concrete wingwall of bridge; chiseled square	862.66
T. 68 N., R. 16 W., in SW $\frac{1}{4}$ sec. 20, 17 ft S. and 134 ft W. of T-rd. W.; on top of center of S. concrete headwall on culvert; chiseled square	868.11
T. 67 N., R. 16 W., at quarter cor. between the NW. and SW $\frac{1}{4}$ sec. 18, 97 ft S. and 26 ft E. from center of crossroads, in concrete post; standard tablet stamped "TT 20 L 1938"	887.559
T. 66 N., R. 16 W., near quarter cor. between secs. 7 and 8, 97 ft N. and 17 ft W. from NW. corner of Chapel Church, 33 ft E. of road in concrete post; standard tablet stamped "TT 72 J J 1936 973"	973.369
T. 66 N., R. 16 W., in NE $\frac{1}{4}$ sec. 6, on SW. wingwall of bridge over Coon Creek; chiseled square	820.09
T. 67 N., R. 16 W., near S. sixteenth cor. sec. 29, 25 ft W. and 55 ft N. of road cor. N. to E. 85 ft SE. of curve on new road, in concrete post; standard tablet stamped "TT 71 J J 1936 857"	856.997
Lancaster, 1.2 mi E. of; on S. end of W. concrete wingwall of bridge J-690 1931; chiseled square	855.08
Lancaster, 1 mi SE. of, 75 ft NE. of bridge over branch of Fabius River, on NE. corner of concrete water trough; chiseled square	855.90
Lancaster, 1.5 mi SE. of, near E. sixteenth cor. between secs. 19 and 30, T. 66 N., R. 14 W., 300 ft N. and 15 ft W. from T-rd. E., on W. end of iron pipe culvert; chiseled square	946.19

THIRD ORDER LEVELS
SEA LEVEL DATUM OF 1929

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

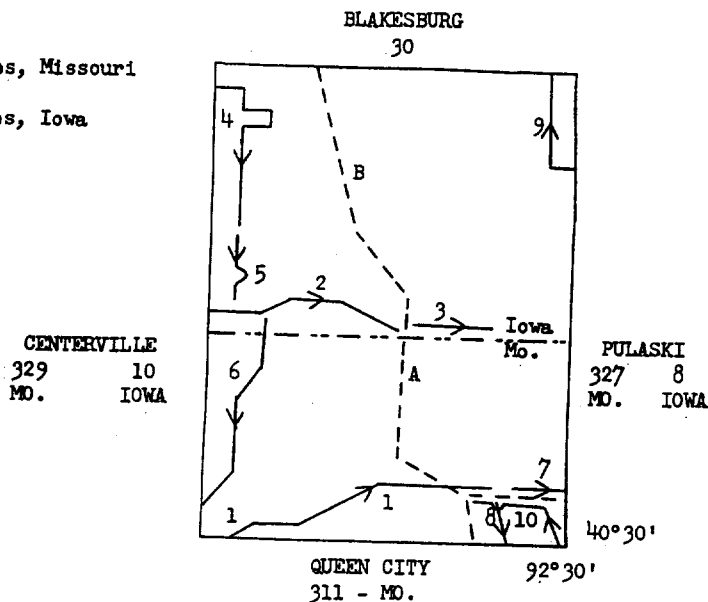
MOULTON QUADRANGLE
328 - MISSOURI
9 - IOWA
N4030-W9230/15
DIAGRAM NK 15-11
CENTERVILLE, IOWA MO.

Putnam and Schuyler Counties, Missouri

Appanoose and Davis Counties, Iowa

Edition of 5/19/64

PR: MLC:vdc



USC&GS LEVELING
A. No. 400924

B. Albia to Moulton, Iowa, Second Order; 1941; Line No. 2 Iowa.

LINE 1

Feet

NORTHEAST FROM SOUTHWEST CORNER (Cornish Beck, 1936; B 7451)

T. 66 N., Rs. 16 and 17 W., 0.2 mi N. of cor. secs. 19, 24, 25 and 30, 10 ft W. of rd. corner, N.-E., 20 ft N. and 8 ft E. from fence corner; iron post stamped "P T S 13 1910 Mo 848"	847.866
T. 66 N., R. 16 W., in SE $\frac{1}{4}$ sec. 16, 21 ft S. and 36 ft E. from rd. corner, S.-E.; 650 ft N. and 36 ft E. from T-rd. W.; 33 ft W. of Chicago, Burlington and Quincy RR., in concrete post; standard tablet stamped "3 C B 1936" (destroyed 1939)	815.591
T. 66 N., R. 16 W., in SE $\frac{1}{4}$ sec. 15, on SW. rivet of SW. pier of bridge over Chariton River; chiseled cross	806.27
Glenwood, 3.0 mi W. of, about 0.1 mi E. of cor. secs. 13, 18, 19 and 24, T. 66 N., Rs. 15 and 16 W., 53 ft E. of N.-S. rd., 52 ft N. of center of T-rd. E.; concrete post standard tablet stamped "P T S 4 RESET 1958"	995.463
T. 66 N., R. 15 W., quarter cor. between secs. 20 and 21, 9 ft S and 16 ft W. from N.-S. crossroad, on headwall of culvert; chiseled square	880.35
T. 66 N., R. 15 W., on line between secs. 16 and 21, 25 ft S. and 5 ft E. from junction of rd. W., on headwall of culvert; chiseled square	907.78
Glenwood at; on the Wabash RR., 4.5 poles SE. of the station, in the top of the W. end of the N. abutment of bridge 2069 over a highway, 9 ft SW. of the center of track, and level with the track; USC&GS standard disk, stamped "W 83 1935"	987.760
66 N., R. 15 W., S. sixteenth cor. between secs. 14 and 15, 17 ft N. and 45 ft E. from hwy. at fence N., on headwall of culvert; chiseled square	905.50

MOULTON QUADRANGLE
328 - MO., 9 - Iowa

LINE 1 (Cont'd)

Lancaster, in SE. corner of courthouse yard, 51 ft N. of hwy., 51 ft W. of N.-S. street; iron post stamped "P T S 3 1910 Mo 967"(USC&GS elev.)	Feet 967.455
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LINE 2

EAST FROM CENTER OF WEST BORDER (Cornish Beck & L. E. Marsden, 1938; Bk B 7451)

T. 67 N., R. 16 W., secs. 17 and 18, approx. 0.15 mi S. from T-rd. W., at the quarter cor. between on the NE. wingwall of bridge; chiseled square	830.13
Coal City, Iowa, in village of, 35 ft W. of old I. & St. L. RR., 6 ft E. and 72 ft N. from the NE. corner of post office, in concrete post; standard tablet stamped "P T S 41 MAC 1923"	839.069
Coal City, Iowa, 0.96 mi NE. of, on SW. corner of carriage block at Hilltown Church; chiseled square	949.97
T. 67 N., R. 16 W., sec. 16, in NE $\frac{1}{4}$ of; 1.6 mi NE. of Coal City, 24 ft S., thence 37 ft E. of T-rd. E.; in concrete post; standard tablet stamped "TT 73 J J 1936"	958.573
T. 67 N., R. 16 W., sec. 13, 14, 23 and 24, 0.18 mi W. from the corner of; 148 ft W. and 6 ft S. from center of track and rd., on SW. wingwall of bridge; chiseled square	873.74

LINE 3

EAST FROM NEAR CENTER OF QUAD. (Cornish Beck, 1936; B 7451)

Coatsville Depot, Missouri, 69 ft E. and 25 ft S. from the NE. corner of, 40 ft E. of track, in concrete post; standard tablet stamped "S 83 1935"	991.609
Coatsville, 66 ft N. of Co. Rt. "B" at rd. NW.; in step of Holiness Church, standard tablet stamped "TT 75 J 1936 992"	991.898
T. 67 N., R. 15 W., fractional sections 21 and 22, (Iowa L.O. System) 16 ft N. of T-rd. S. at the approx. N. cor. of, 480 ft N. from T-rd. W.; of; in concrete post; standard tablet stamped "TT 76 J J 1936"	951.816
T. 67 N., Rs. 14 and 15 W., sec. 13; 34 ft N. of rd. and S. corner of, on Mo.-Iowa State line, in line with U.S. 63 N., 2 ft E. of fence, in concrete post; standard tablet stamped "SMALL 1934" USC&GS A Station	959.120

LINE 4

SOUTH ALONG NORTH PORTION OF WEST BORDER (L.E. Marsden, 1938; B 7837)

T. 69 N., R. 16 W., quarter cor. between SW $\frac{1}{4}$ sec. 30 and the NW $\frac{1}{4}$ sec. 31, 33 ft N. and 15 ft W. from private T-rd. S.; at; on N. side of State Hwy. 3, 2.0 mi S. of Udell, in concrete post; standard tablet stamped "TT 17 L 1938"	922.496
T. 69 N., R. 16 W., in sec. 31, at crossroads, 3300 ft S. of Hwy. 3, 17 ft N. and 15 ft E. from center of crossroads, about 23 ft W. and 40 ft S. of SW. corner of old house, in root on W. side of 12-in. elm tree; copper nail and washer	964.02
T. 68 N., R. 16 W., on line between secs. 6 and 7, 16 ft N. and 9 ft W. from center of concrete bridge with steel framework; on top of NW. concrete wingwall; chiseled square	855.45
T. 68 N., R. 16 W., in center of NW $\frac{1}{4}$ sec. 18, 18 ft S. of T-rd. N.; 2.5 mi N. and 1.0 mi E. of Sedan in concrete post; standard tablet stamped "TT 18 L 1938"	852.756
T. 68 N., R. 16 W., cor. secs. 17, 18, 19 and 20, 10 ft N. and 213 ft W. of T-rd. W.; at; on concrete bridge, on top of NW. corner of N. concrete wingwall of bridge; chiseled square	862.66
T. 68 N., R. 16 W., in SW $\frac{1}{4}$ sec. 20, 17 ft S. and 134 ft W. of T-rd. W.; on top of center of S. concrete headwall on culvert; chiseled square	868.11

LINE 4 (Cont'd)

Feet

Sedan, 2.0 mi NE. along the C.B. & Q. RR. from; 600 ft SW. of milepost 102, 70 ft SW. of the SW. corner of a hollow tile dairy, 9 ft W. of the W. fence of a N.-S. rd. fenced 42 ft wide, and 44 ft SE. of the center of track; a USC&GS standard disk, stamped "850.123 S 7 1930" and set in the top of a concrete post. 850.228

LINE 5

SOUTH NEAR CENTER OF WEST BORDER (L.E. Marsden, 1938; B 7837)

T. 67 N., R. 16 W., at quarter cor. between the NW. and SW $\frac{1}{4}$ sec. 18, 97 ft S. and 26 ft E. from center of crossroads, in concrete post; standard tablet stamped "TT 20 L 1938" 887.559

LINE 6

SOUTH ALONG SOUTH PORTION OF WEST BORDER (Cornish Beck, 1936; B 7451)

T. 66 N., R. 16 W., near quarter cor. between secs. 7 and 8, 97 ft N. and 17 ft W. from NW. corner of Chapel Church, 33 ft E. of rd. in concrete post; standard tablet stamped "TT 72 J J 1936 973" 973.369

T. 66 N., R. 16 W., in NE $\frac{1}{4}$ sec. 6, on SW. wingwall of bridge over Coon Creek; chiseled square 820.09

T. 67 N., R. 16 W., near S. sixteenth cor. sec. 29, 25 ft W. and 55 ft N. of rd. cor. N. to E. 85 ft SE. of curve on new rd., in concrete post; standard tablet stamped "TT 71 J J 1936 857" 856.997

LINE 7

EAST IN SOUTHEAST PORTION OF QUAD. (G.R. Hamlin, 1936; B 7456)

Lancaster at; on the C.B. & Q. RR., 100 ft E. of E. end of station; 42 ft N. of the center of the track, 3 ft S. of a pole, and 1 ft lower than the track; a USC&GS standard disk stamped "R 86 1935" and set in top of a concrete post 965.425

Lancaster, 1.2 mi E. of; on S. end of W. concrete wingwall of bridge J-690 1931 chiseled square 855.08

LINE 8

LINE IN SOUTHEAST PORTION OF QUAD. (W.V. Kennedy, 1937; B7545)

Lancaster, 1.0 mi SE. of, 75 ft NE. of bridge over branch of Fabius River, on NE. corner of concrete water trough; chiseled square 855.90

Lancaster, 1.5 mi SE. of, near E. sixteenth cor. between secs. 19 and 30, T. 66 N., R. 14 W., 300 ft N. and 15 ft W. from T-rd. E.; on W. end of iron pipe culvert; chiseled square 946.19

LINE 9

NORTH ALONG NORTH PORTION OF EAST BORDER (R.E. Carey, 1955, CV 692) MOULTON QUAD. - 9

0.0 West Grove, 3.0 mi E. along the Wabash RR. from; about 0.5 mi W. of milepost 25, at the junction of U.S. Hwy. 63 and State Hwy. 3 89 ft NW. of the center of U.S. Hwy. 63 at station 3671, 32 ft S. of the center of track, and about 6-in. under ground, a standard tablet stamped "903.702 M 7 1930" and set in top of a concrete post. USC&GS post 903.774

0.3 UE, T. 69 N., R. 14 W., near cor. secs. 29, 30, 31 and 32; center of crossroads 907.1

0.7 T. 69 N., R. 14 W., near quarter cor. between secs. 29 and 30, center of bridge at drain 863.3

BLAKESBURG QUAD. - 30

69 N., R. 14 W., about 0.25 mi S. of cor. secs. 19, 20, 29 and 30, 20 ft W. of N.-S. rd., and in line with rd. E., 3 ft E. of wire fence, in concrete post; bronze tablet stamped "P T S 36 1923 MAC 898" 897.440

4
MOULTON QUADRANGLE
328 --MO., 9 - IOWA

LINE 10

Feet

WEST FROM SOUTHEAST CORNER OF QUAD. (R.M. Brown, 1964; CV 1646)

MOULTON QUAD. - 328

2 48 9.8	UE, 2.0 mi NW. of tablet; near E. sixteenth cor. between secs. 19 and 30; T. 66 N., R. 14 W., 16 ft S., 43 ft W. and 4.2 ft higher than a T-rd. E.; in the NW. side of a power pole; a RR. spike; painted "UE"	951.17
49 10.4	UE 2.6 mi NW. of tablet, in W. central portion of sec. 19, T. 66 N., R. 14 W., 12 ft SW. (normal) and same elev. as rd. at a large double culvert; in the center of SW. headwall; a chiseled square; painted "UE" (drain 13 ft lower)	861.05
51 11.6	Lancaster at; in the SW. corner of Co. courthouse ground, at a street intersection, 51 ft N. of the center of State Hwy. 4; 51 ft W. of the center of N.-S. street, and 0.5 ft higher than ground. a USGS standard cap stamped "P T S 3 1910 MD" and riveted on the top of an iron pipe. USC&GS elev.	967.455
12.0	USC&GS "R 86 1935" (described in Line 7)	965.425
52 12.7	UE, 0.7 mi W. of tablet; in the SE. cor. sec. 14, T. 66 N., R. 15 W., 11 ft N., 12 ft W. and 0.1 ft lower than Co. rd. "AA" at a small concrete bridge; in the NW. wingwall a chiseled square; painted "UE" (drain 9 ft lower)	885.82
53 13.7	UE, 1.7 mi W. of tablet; in the SE. cor. sec. 15, T. 66 N., R. 15 W., 20 ft SE., 46 ft SW. and 0.6 ft lower than a rd. fork; on W. end of an iron pipe culvert; a rivet painted "UE"	926.65
54 14.4	USC&GS "W 83 1935" (described in Line 1)	987.760