

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

THIRD ORDER LEVELS
SEA LEVEL DATUM OF 1929

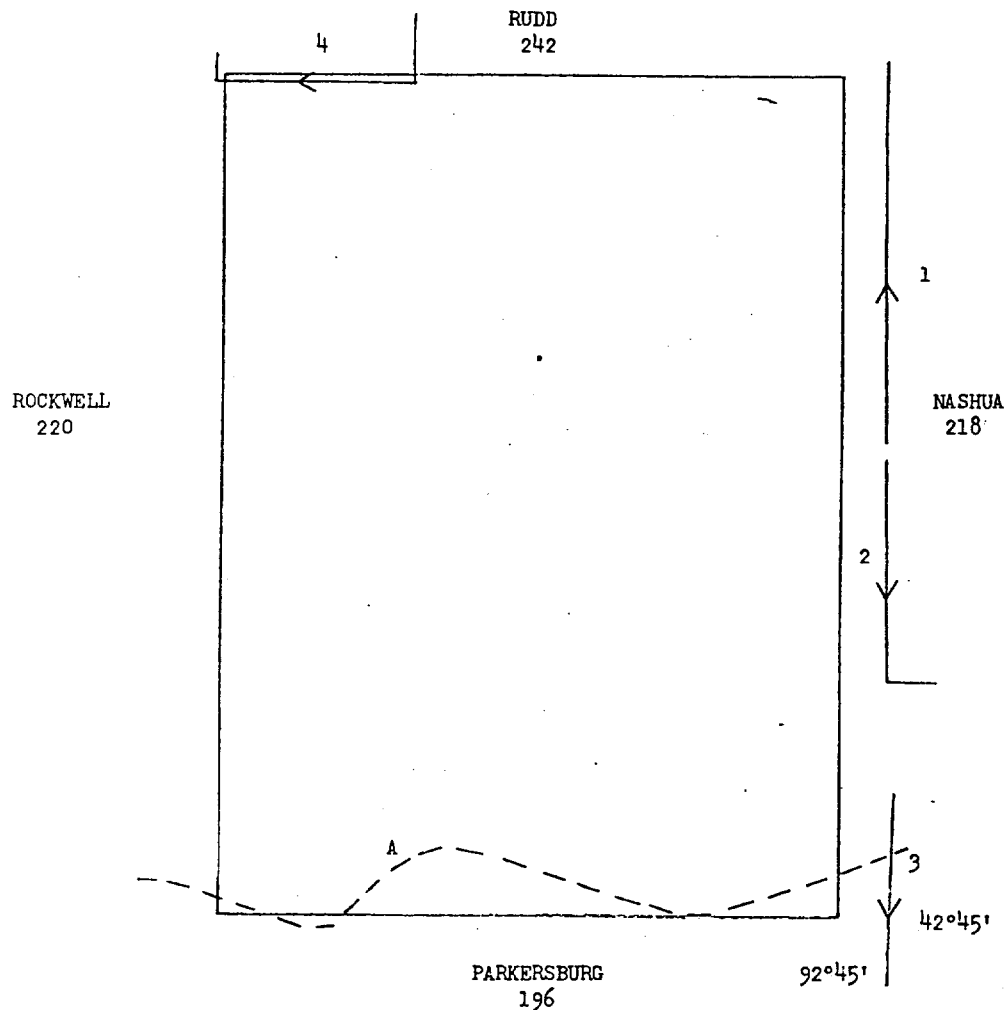
FINAL ADJUSTMENT OF 1970

Butler and Floyd Counties

Edition of 4/28/70

PR:ADP/ph/gh

MARBLE ROCK QUADRANGLE
219 - IOWA
N4245-W9245/15
DIAGRAM NK 15-5
WATERLOO



USC&GS VERTICAL CONTROL DATA
A. Quadrangle 420924

LINE 1

FEET

C. L. Crutchfield, 1969; Book CV 2490

NASHUA QUAD. - 218

- | | | | | |
|----|------|--|---|---------|
| 1 | 20 | 13.2 | UE 36 B, 1.4 mi W. along a co. hwy. from tablet, 24 ft N. and 38 ft E. and 4.4 ft lower than crossroads, top of the E. end of a concrete tile culvert; a chiseled square, painted "UE 36 B" | 1026.89 |
| 21 | 14.3 | UE 36 C, 1.4 mi W. along a co. hwy. and 1.1 mi N. along a co. rd. from tablet 29 ft N. and 38 ft E. and 3.6 ft lower than crossroads, top of the N. end of a metal corrugated culvert; a punched hole, painted "UE 36 C" | 978.06 | |
| 22 | 14.9 | Powersville, 1.4 mi S. and 2.0 mi W. of, 0.1 mi N. of the center of secs. 33 and 34, T. 94 N., R. 16 W., 24 ft N. and 17 ft E. and 0.5 ft higher than center of concrete bridge over Flood Creek, top of the NE end; a standard tablet stamped "37 CLC 1969" | 976.189 | |
| 23 | 14.9 | Reference mark, 84 ft S. and 17 ft W. and 0.5 ft lower than tablet; a chiseled square, center of concrete bridge floor over Flood Creek, painted "RM" | 975.69 | |
| 24 | 15.3 | UE 37 A, 0.4 mi N. along a co. rd. from tablet, 20 ft S. and 30 ft W. and 2.7 ft lower than crossroads, top of the S. end of a metal corrugated culvert; a punched hole, painted "UE 37 A" | 978.67 | |
| 25 | 16.4 | UE 37 B, 1.4 mi N. along a co. rd. from tablet, 46 ft N. and 18 ft E. and 4.7 ft lower than crossroads, top of the E. end of a concrete tile culvert; a chiseled square, painted "UE 37 B" | 1010.06 | |
| 26 | 17.4 | Powersville, 1.0 mi N. and 2.0 mi W. of, near center secs. 15, 16, 21 and 22, T. 94 N., R. 16 W., 88 ft N. and 149 ft E. and 4.1 ft higher than crossroads, 1 ft S. and 12 ft W. of the SE. corner of schoolhouse, on top of the concrete porch; a standard tablet stamped "38 CLC 1969" | 1054.240 | |
| 27 | 17.4 | Reference mark, 5 ft S. and 26 ft W. and 0.1 ft higher than tablet, top of the SW. corner of the concrete porch; a chiseled square, painted "RM" | 1054.31 | |
| 28 | 18.4 | UE 38 A, 1.0 mi N. along a co. rd. from tablet, center of crossroads; a rail spike, painted "UE 38 A" | 1053.79 | |
| 29 | 19.4 | UE 38 B, 2.0 mi N. along a co. rd. and hwy. from tablet; center of crossroads, a rail spike, painted "UE 38 B" | 1057.34 | |

CHARLES CITY QUAD. - 241

- | | | | |
|----|------|--|----------|
| 31 | 20.7 | Oakwood, 1.0 mi S. and 2.3 mi E. of, 0.3 mi E. of cor. secs. 3, 4, 33 and 34, T. 94 and 95 N., R. 16 W., 1450 ft E. and 14 ft S. of crossroads, 0.1 ft higher than center of E.-W. rd. at a drain crossing, in the center of the S. headwall of a concrete box culvert; a standard tablet stamped "15 CLC 1969 1077" | 1077.423 |
|----|------|--|----------|

LINE 2

C. L. Crutchfield, 1969; Book CV 2490

NASHUA QUAD. - 218

- | | | | | |
|----|-----|--|-------------------------------|---------|
| 1 | 60 | 0.0 | UE 36 B (described in Line 1) | 1026.89 |
| 60 | 1.0 | UE 36 D, near cor. secs. 9, 10, 15 and 16, T. 93 N., R. 16 W., 29 ft N. and 40 ft W. and 6.7 ft lower than crossroads, top of the W. end of a concrete tile culvert; a chiseled square, painted "UE 36 D" | 987.94 | |
| 61 | 2.0 | UE 36 E, near cor. secs. 15, 16, 21 and 22, T. 93 N., R. 16 W., 37 ft N. and 20 ft W. and 1.4 ft lower than crossroads, in the center of the W. headwall of a concrete box culvert; a chiseled square, painted "UE 36 E" | 959.19 | |

LINE 2 (Cont'd)

NASHUA QUAD. - 218

FEET

- 1 62 2.8 At Packard, 0.2 mi N. of the cor. secs. 21, 22, 27 and 28, T. 93 N., R. 16 W., 13 ft S. and 151 ft W. and 5.7 ft lower than crossroads, top of the SW. wingwall of a cement and rock bridge; a standard tablet stamped "59 CLC 1969" 952.893
- 63 2.8 Reference mark, 24 ft N. and 7 ft E. and 2.4 ft higher than tablet, top of the NE. end of the N. headwall; a chiseled cross, painted "RM" 955.30
- 64 3.5 UE 59 A, 0.7 mi S. along a paved co. rd. from tablet, 221 ft S. and 12 ft W. and 1.6 ft higher than center of bridge over Shell Rock River, top of the SW. wheelguard; a chiseled square, painted "UE 59 A" 952.07
- 65 4.1 UE 59 B, 1.2 mi S. along a co. paved rd. from tablet, 207 ft S. and 31 ft W. and 4.9 ft lower than crossroads, top of the N. end of a metal corrugated culvert; a punched hole, painted "UE 59 B" 990.68
- 66 5.0 UE 59 C, 2.2 mi S. along a co. paved rd. from tablet, center of T-rd. W.; a rail spike, painted "UE 59 C" 989.0
- 67 5.6 Packard, 2.7 mi S. and near center secs. 3 and 4, T. 92 N., R. 16 W., 182 ft S. and 14 ft W. and 1.2 ft higher than T-rd. E., in the center of the W. concrete wheelguard over a small drain; a standard tablet stamped "60 CLC 1969" 959.032
- 68 5.6 Reference mark, 167 ft N. and 52 ft E. and 6.3 ft lower than tablet, top of the S. end of a large concrete tile culvert; a chiseled square, painted "RM" 952.70
- 69 6.7 UE 60 A, 1.0 mi E. along a co. rd. from tablet, 291 ft S. and 18 ft W. and 1.4 ft lower than T-rd. W., top of the W. end of the most southern three concrete tile culverts; a chiseled square, painted "UE 60 A" 939.38

LINE 3

P. J. Hoehenberger, 1969; Book CV 2436

NASHUA QUAD. - 218

- 1 52 4.0 Clarksville, Butler County, 3.0 mi W. of center of, T. 92 N., R. 16 W., near the center of the NW $\frac{1}{4}$ sec. 15, at SE. corner of a steel and concrete bridge, 13 ft E. and 3.3 ft lower than rd., top, in center of E. end of S. abutment; standard tablet stamped "76 PJH 1969, painted 950.904
- 53 5.1 UE 76 PJH A, about 1.2 mi S. along gravel field rd. from tablet, at center of T-rd. N. (gravel), painted 1028.7
- 54 5.4 UE 76 PJH B, about 1.2 mi S., thence 0.25 mi W. along gravel rd. from BM, at center of T-rd. S. (gravel), painted 1045.0
- 54 5.9 UE 76 PJH C, about 1.2 mi S., thence 0.25 mi W., thence 0.5 mi S. along gravel rd. from BM; cor. secs. 21, 22, 27 and 28, 23 ft N., 27 ft W. and 3.4 ft lower than T-rd. W., top of N. end of a 2.0 ft cement pipe culvert; chiseled square, painted 1039.13
- 55 6.9 Reference mark, at center of crossroads; a chiseled square, painted 1035.01

SHELL ROCK QUAD. - 195

- 56 6.9 Allison, Butler County, 0.6 mi S. and 3.25 mi E. of; T. 92 N., R. 16 W., near the NW. cor. sec. 3, 80 ft S., 174 ft W. and 9.1 ft lower than crossroads (R.M.) 8.5 ft S. and 37.5 ft E. of a power transmission line pole, 1.5 ft N. and 9.0 ft W. of a right-of-way fence corner W. and SE., 1.5 ft W. of a witness sign; a standard tablet stamped "70 PJH 1969", painted 1025.885
- 56 7.9 UE 70 PJH A, about 1.0 mi S. along gravel rd. from tablet, at center of crossroads (gravel) painted 1009.7

4
MARBLE ROCK QUADRANGLE
219 - IOWA

LINE 3 (Cont'd)

SHELL ROCK QUAD. - 195

FEET

- 1 57 8.2 UE 70 PJH B, about 1.25 mi S. along gravel rd. from BM, 11 ft E. and 0.7 ft higher than rd., top of S. end of E. concrete curb of a small bridge; chiseled square, painted 992.95
- 57 9.0 UE 70 PJH C, about 2.0 mi S. along gravel rd. from BM, at center of crossroads (gravel), painted 1027.2

LINE 4

C. L. Crutchfield, 1969; Book CV 2434

RUDD QUAD. - 242

- 1 59 16.7 Rockford, 2.4 mi S. and 1.0 mi E. of, 0.45 mi S. of the cor. secs. 23, 24, 25 and 26, T. 95 N., R. 18 W., 14 ft E. and 0.7 ft higher than center of N.-S. gravel rd. at a large drain crossing, in the center of the E. headwall of a concrete box culvert; a standard tablet stamped "11 CLC 1969 984" 983.966
- 60 16.7 Reference mark, 28 ft W. and 0.2 ft higher than tablet, in the center of the W. headwall of a concrete box culvert; a chiseled square, painted "RM" 984.13
- 61 17.5 UE 11 A, 0.8 mi S. along a co. rd. from tablet, 164 ft N. of the S. end of the concrete bridge over Shell Rock river, in the center of the bridge over the main body of water; a large chiseled square, painted "UE 11 A" 992.85
- 62 18.3 T. 94 N., R. 18 W., NE. cor. sec. 2, 3 mi W. and 2 mi N. of Marble Rock, on Co. Rd. "M", at T-rd. W., in transformer pole, SW. cor. of intersection, pole spike and collar, 35 ft S. and 73 ft W. and 0.7 ft higher than T-rd. W. 1002.107
- 63 19.2 Rockford, 4.0 mi S. of, near cor. secs. 2, 3, 34 and 35, Tps. 94 and 95 N., R. 18 W., 10 ft S. and 33 ft E. and 1.3 ft lower than crossroads, in the center of the S. headwall of a concrete box culvert; a standard tablet stamped "12 CLC 1969 1026" 1026.506
- 64 19.2 Reference mark, 21 ft N. and .036 ft lower than tablet, in the center of the N. headwall of a concrete box culvert; a chiseled square, painted "RM" 1026.47
- 65 20.3 UE 12 A, 1.0 mi W. along a co. rd. from tablet, 22 ft S. and 78 ft W. and 0.9 ft lower than crossroads, top of the W. end of a metal corrugated culvert; a punched hole, painted "UE 12 A" 1065.05
- 66 21.3 UE 12 B, 2.0 mi W. along a co. rd. from tablet, 20 ft N. and 29 ft W. and 3.2 ft lower than crossroads, top of the N. end of a metal corrugated culvert; a punched hole, painted "UE 12 B" 1057.84

ROCKWELL QUAD. - 220

- 67 22.3 Rockford, 4.0 mi S. and 3.0 mi W. from; 4.0 mi E. from Cartersville, Tps. 94 and 95 N., R. 18 W., 184 ft N., 32 ft E., and 0.2 ft higher than center of crossroads, at approx. cor. secs. 5, 6, 31 and 32, 76 ft N. and 52 ft W. of NW. corner of abandoned schoolhouse, 106 ft N. and 12 ft W. of center of 30-in. elm tree, 14 ft N. of corner fence post, at NW. corner of schoolyard, 2 ft N. and 1 ft E. of telephone pole and 1 ft W. of fence line, in concrete post; standard tablet stamped "TT 27 EV 1957 1969 ELEV." 1119.137
- 69 23.3 UE, 27 B, 1.0 mi N. of "TT 27 EV 1957", along gravel rd., T. 95 N., R. 18 W., at cor. secs. 29, 30, 31 and 32, 12 ft S., 34 ft W. and 0.4 ft lower than center of crossroads, on the E. end of S. headwall of concrete box culvert; a chiseled square 1091.68