

THIRD-ORDER LEVELS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

Final Adjustment of 1974

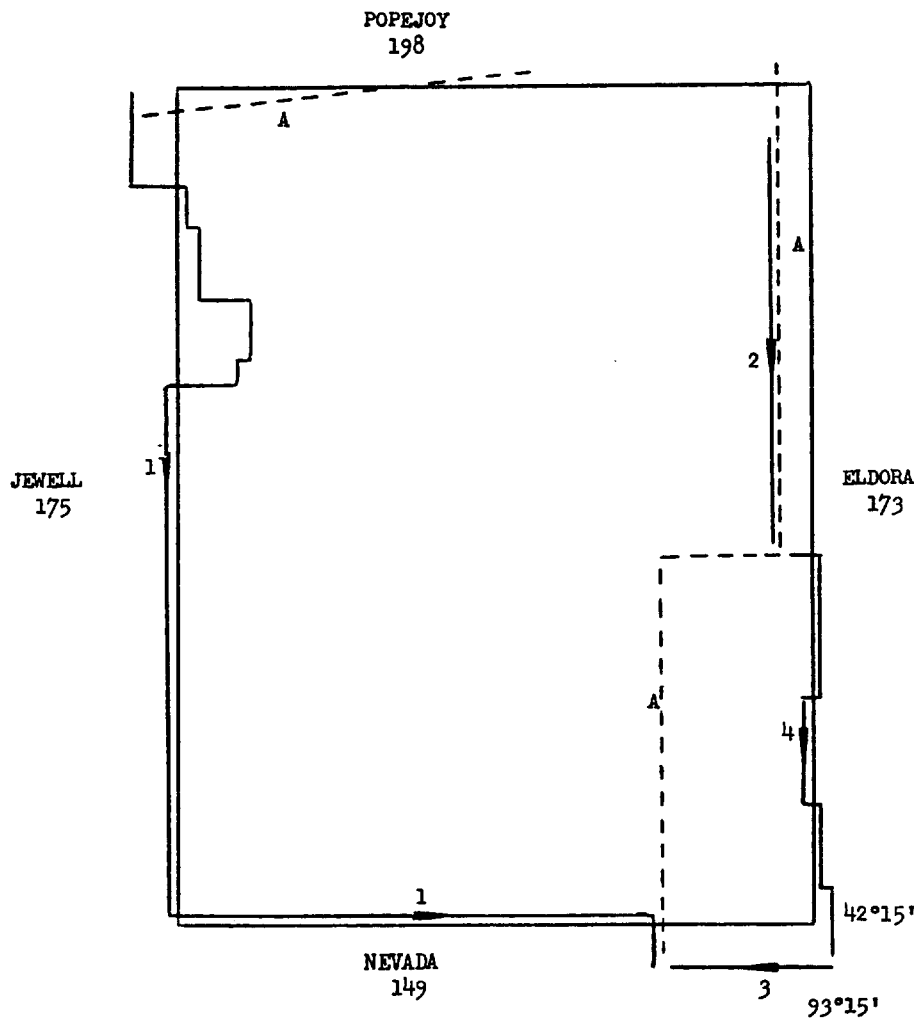
Hamilton and Hardin Counties

Edition: 1-1-75

PR: ADP/cb

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

42-093-24
RADCLIFFE QUADRANGLE
174 - IOWA
N4215-W9315/15
DIAGRAM NK 15-5
WATERLOO



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

A. Quadrangle No. 420932

174-B

LINE 1

FEET

C.D. Lien, 1974; Book CV-3126

RADCLIFFE QUAD. - 174

2	10	2.0	Williams, 1 mi S., 2.5 mi E. of, T. 88 and 89 N., R. 22 and 23 W., sec. cors. 2, 3, 31 and 36, 55 ft S., 33.9 ft W. of; and 3 ft lower than centerline of road at T-rd. S. and 5 ft S., 1 ft E. of a fence corner set on top of a 0.5-in. copper coated steel rod which is encircled by a 6-in. tile which is set flush with ground, a standard tablet stamped "19 CDL 1974"	1154.89
11	2.9		Reference mark, 14 ft N., 56.9 ft E. of tablet and 40.4 ft S., 25 ft E. of centerline of T-rd. S., a chiseled square on a concrete culvert	1155.53
14	4.2		UE 19 A, 0.75 mi S. and 0.5 mi E. along road from tablet, T. 88 N., R. 23 W. near the $\frac{1}{4}$ cor. of sec. 2, 36.1 ft S. and 36.1 ft E. of; and 2.8 ft lower than centerline of road at T-rd. S. and 0.5 ft W. of a fence corner on top of a 0.5-in. iron rod painted orange rod projects 0.3 ft above ground	1169.32
17	5.2		UE 19 B, 1.75 mi S. and 0.5 mi E. along road from tablet, T. 88 N., R. 23 W., near the $\frac{1}{4}$ cor. of sec. 11, 1.6 ft N. and 35.5 ft E. of and 1.7 ft lower than centerline of road at E.-W. fence lines and 1.6 ft N. and 1.9 ft E. of a fence corner, a chiseled square on a rock	1159.31
19	5.7		UE 19 C, 2.25 mi S. and 0.5 mi E. along road from tablet, T. 88 N., R. 22 W., near the N. quarter cor. of sec. 14, 32.8 ft N. and 32.8 ft W. of; and 1.3 ft lower than crossroads, 0.8 ft W. of a telephone pole, a chiseled square on a rock	1176.31
21	6.2		Williams, 3.25 mi S., 3.5 mi E. of; T. 88 N., R. 23 W., near the N. sixteenth cor. between secs. 13, and 14, 59.6 ft N. and 30.8 ft E. of; and 1.1 ft lower than centerline of road at T-rd. N., 26 ft N. and 1 ft W. of a fence corner and 19.2 ft N. of a telephone pole, cemented in the top of a large granite rock a standard tablet stamped "20 CDL 1974"	1152.425
22	6.2		Reference mark, 52.3 ft N. and 30.8 ft E. of centerline of road at T-rd. N., 7.3 ft S., of tablet and 12.4 ft N. of a telephone pole, a chiseled square on a rock	1152.50
24	6.7		UE 20 A, 0.5 mi E. along road from tablet, T. 88 N., R. 23 W., near the $\frac{1}{4}$ cor. of sec. 13, 42.6 ft S. and 39.4 ft W. of; and 1.9 ft lower than centerline of road at T-rd. S. and 1.5 ft S. of a fence corner, a chiseled square on a rock	1156.11
26	7.5		UE 20 B, 0.75 mi S. and 0.5 mi E. along road from tablet, T. 88 N., R. 23 W., quarter cor. between secs. 13 and 24, 2 ft S. and 38.5 ft W. of; and 0.6 ft higher than centerline of road at T-rd. E. and 4 ft N. and 4.5 ft W. of a fence corner, a chiseled square on rock	1192.77
29	8.5		Reference mark, 70.6 ft N. and 28.2 ft E. centerline of bridge, 78.7 ft N. and 37.6 ft E. of tablet and 16 ft N. and 28.2 ft E. of centerline of road at field road crossing; a punched hole in a metal culvert	1150.03
30	8.5		Williams, 4.75 mi S. and 3.75 mi E. of; T. 88 N., R. 23 W., near the SW. sixteenth cor. of sec. 24, 8.1 ft S. and 9.4 ft W. of; and 2.6 ft higher than centerline of bridge, cemented in the top of of S. end of the W. concrete railing of a bridge over a drainage ditch, a standard tablet stamped "21 CDL 1974"	1157.221
33	9.0		UE 21 A, 0.25 mi S. and 0.25 mi W. along road from tablet, T. 88 N., R. 23 W., sec. cors. 23, 24, 25 and 26, 29.5 ft N., 23 ft W. of; and 2.3 ft lower than centerline of T-rd. S. and 7 ft W. of centerline of a field entrance N., a punched hole in a metal culvert	1145.05

LINE 1 (Cont'd)

JEWELL QUAD. - 175

FEET

2	36	10.0	UE 21 B, 0.25 mi S., 1.25 mi W. along road from tablet, T. 88 N., R. 23 W., sec. cors. 22, 23, 26 and 27, 48 ft N. and 15.7 ft E. of, and 1.4 ft lower than crossroads, a chiseled square on a concrete culvert	1158.78
40	11.0		Williams, 6 mi S. and 2.5 mi E. of; Radcliffe, 6 mi N. and 3.5 mi W. of; T. 88 N., R. 23 W., sec. cors. 26, 27, 34 and 35, 14.5 ft S., 12 ft E. of; and 0.8 ft higher than centerline of bridge and 14.5 ft S. and 36 ft W. of crossroads cemented in the SE. cor. of a concrete bridge, a standard tablet stamped "22 CDL 1974"	1157.956
41	11.0		Reference mark, 23.5 ft S., 23.2 ft W. of centerline of bridge, 9 ft S., 35.2 ft W. of tablet and 9 ft SW. of the SW. cor. of bridge, a chiseled square on a rock	1153.35
44	12.0		UE 22 A, 1 mi S. along road from tablet, T. 87 and 88 N., R. 23 W., sec. cors. 2, 3, 34 and 35, 33.4 ft N. and 36 ft W. of, and 7.5 ft lower than crossroads, a punched hole in a metal culvert, at the head of a drainage ditch, the highest of 4 metal culverts	1151.18
47	13.0		UE 22 B, 2 mi S. along road from tablet, T. 87 N., R. 23 W., sec. cors. 10, 11, 2 and 3, 32.8 ft S. and 32 ft W. of; and 2.3 ft lower than crossroads and 1 ft NE. of a fence corner on top of a 0.5 in. steel rod painted orange, rod projects 0.3 ft above ground	1180.44
51	14.3		Radcliffe, 2.25 mi N. and 3.5 mi W. of; T. 87 N., R. 23 W., near the N. sixteenth cor. between secs. 14 and 15, 26.2 ft W. of; and 2.5 ft lower than centerline of road opposite dr. N. and fence E. cemented in the center of a headwall of a concrete culvert; a standard tablet stamped "23 CDL 1974"	1170.802
52	14.4		Reference mark, 39 ft S. and 37 ft W. of tablet and 39 ft S. and 13 ft E. of centerline of road opposite dr. W. and fence line E., a chiseled square on a concrete culvert	1171.47
54	15.0		UE 23 A, 0.75 mi S. along road from tablet, 26.2 ft S. and 32.8 ft E. of; and 1.8 ft lower than crossroads, 8.6 ft N. of a fence corner and 6.8 ft NE. of a telephone pole, a chiseled square on a rock	1181.29
57	16.0		UE 23 B, 1.75 mi S. along road from tablet, T. 87 N., R. 23 W. sec. cors. 22, 23, 26 and 27, 33.1 ft N. and 32.8 ft W. of; and 3.4 ft lower than crossroads, 1 ft W. of a telephone pole and 1 ft SE. of a fence corner, a chiseled square on a concrete footing for a fence corner	1177.68
60	17.1		Reference mark, 39.4 ft N. and 26.2 ft E. of crossroads and 190.2 ft N. and 52.5 ft E. of tablet, a chiseled square on a concrete culvert	1168.40
61	17.1		Radcliffe, 3.5 mi W. of; T. 87 N., R. 23 W., sec. cors. 26, 27, 34 and 35, 150.9 ft and 26.2 ft W. of; and 4.1 ft lower than crossroads cemented in the top of a concrete headwall around a metal culvert, a standard tablet stamped "24 CDL 1974"	1165.404
64	18.1		UE 24 A, 1 mi S. along road from tablet, T. 86 and 87 N., R. 23 W., sec. cors. 2, 3, 34 and 35, 23 ft N. and 29.5 ft W. of; and 3.5 ft lower than centerline of crossroads, a chiseled square on a concrete culvert	1145.02
67	19.1		UE 24 B, 2 mi S. along road from tablet, T. 86 N., R. 23 W., sec. cors. 2, 3, 10 and 11, 39.4 ft N. and 32.8 ft W. of crossroads, a chiseled square on a concrete culvert	1138.23
70	20.1		Radcliffe, 3.5 mi S. and 3.5 mi W. of; T. 86 N., R. 23 W., sec. cors. 10, 11, 14 and 15, 39.4 ft S. and 45.9 ft E. of; and 4.3 ft lower than centerline of crossroads, and 8.4 ft S. and 1.7 ft W. of a fence corner set on top of a 0.5-in. copper coated steel rod which is encircled by a 6-in. tile set flush with ground, a standard tablet stamped "25 CDL 1974"	1123.889

LINE 1 (Cont'd)

JEWELL QUAD. - 175

FEET

2 72 21.1 UE 25 A, 1 mi S. along road from tablet, T. 86 N., R. 23 W., sec. cors. 14, 15, 22 and 23, 36.1 ft N. and 36.1 ft W. of; and 4.2 ft lower than centerline of crossroads, 12 ft S. of centerline of a field entrance W., a chiseled square on a concrete culvert 1123.89

RADCLIFFE QUAD. - 174

78 22.2 Radcliffe, 4.5 mi S. and 2.5 mi W. of; T. 86 N., R. 23 W., near sec. cors. 13, 14, 23 and 24, 538 ft E. of crossroads, and 10 ft S. and 9 ft E. of, and 0.6 ft higher than centerline of road over culvert cemented in the SE. cor. of a concrete headwall, a standard tablet stamped "26 CDL 1974" 1116.612

3 3 23.1 UE 26 A, 1.0 mi E. along road from tablet, T. 86 N., R. 22 and 23 W., sec. cors. 13, 18, 19 and 24, 29.5 ft N., 42.6 ft W. of; and 3.1 ft lower than crossroads and 10 ft E. of a field entrance N., a chiseled square on a concrete culvert 1184.25

6 24.1 UE 26 B, 2 mi E. along road from tablet, T. 86 N., R. 22 W., sec. cors. 17, 18, 19 and 20, 32.8 ft S. and 32.8 ft E. of; and 2.7 ft lower than crossroads, a chiseled square on a concrete footing for a fence corner 1185.74

9 25.1 Radcliffe, 4.5 mi S. and 0.5 mi E. of; T. 86 N., R. 22 W., sec. cors. 16, 17, 20 and 21, 36.1 ft S. and 42.6 ft W. of; and 5.5 ft lower than crossroads; 4.8 ft S. and 1.6 ft E. of a fence corner and 3.9 ft N. of a concrete right-of-way post, set on top of a 0.5-in. copper coated steel rod which is encircled by a 6-in. tile set flush with ground, a standard tablet stamped "27 CDL 1974" 1207.495

10 25.2 Reference mark, 324.7 ft E. of tablet, 282.1 ft E. and 40 ft S. of crossroads, 40 ft S. and 35 ft E. of centerline of road at private drive S. and 1.3 ft N. and 3.3 ft E. of a fence corner, a chiseled square on top of a concrete right-of-way post which projects 0.9 ft above ground 1214.50

13 26.1 UE 27 A, 1 mi E. along road from tablet, T. 86 N., R. 22 W., sec. cors. 15, 16, 21 and 22, 14.6 ft S. and 37 ft E. of; and 2.9 ft lower than crossroads, a chiseled square on a headwall of a concrete box culvert 1195.00

16 27.1 UE 27 B, 2 mi E. along road from tablet, T. 86 N., R. 22 W., sec. cors. 14, 15, 22 and 23, 42.6 ft N. and 19.7 ft W. of; and 2.5 ft lower than crossroads, a punched hole in a metal culvert 1154.06

19 28.1 UE 27 C, 3 mi E. along road from tablet, T. 86 N., R. 22 W., sec. cors. 13, 14, 23 and 24, 36.1 ft N. and 39.3 ft W. of; and 2.2 ft lower than crossroads, a chiseled square on a concrete footing for a fence corner 1152.23

21 28.4 Reference mark, 26 ft N. and 16.7 ft E. centerline of road at fence line N., 26 ft N. and 18 ft E. of centerline road at field entrance N. and 31.8 ft N. and 167 ft W. of tablet, a chiseled square on concrete culvert 1120.44

22 28.4 Radcliffe, 4.5 mi S. and 3.75 mi E. of; T. 86 N., R. 22 W., near the W. sixteenth cor. between secs. 13 and 24, 13.8 ft S. and 183.7 ft E. of; and 0.6 ft lower than centerline of road at fence N., 13.8 ft S. and 282.1 ft E. of centerline of road at field entrance S. and 13.8 ft S. and 185 ft E. of centerline of road at field entrance N. cemented in the headwall of a concrete culvert, a standard tablet stamped "28 CDL 1974" 1122.903

25 29.1 UE 28 A, 0.75 mi E. along road from tablet, T. 86 N., R. 21 and 22 W., sec. cors. 13, 18, 19 and 24, 19.7 ft N. and 26.2 ft E. of; and 0.7 ft lower than crossroads, a chiseled square on a concrete headwall of a concrete culvert 1105.47

LINE 1 (Cont'd)

RADCLIFFE QUAD. - 174

FEET

- 3 28 30.0 UE 28 B, 1.6 mi E. along road from tablet, T. 86 N., R. 21 W., sec. cors. 17, 18, 19 and 20, 26.2 ft N. and 29.5 ft W. of; and 2.7 ft lower than crossroads; a punched hole in a metal culvert 1124.79
- 31 31.0 Radcliffe, 4.5 mi S. and 6.5 mi E. of; T. 86 N., R. 21 W., sec. cors. 16, 17, 20 and 21, 55 ft S. and 19 ft W. of; and 0.1 ft lower than centerline of road at T-rd. W., 2 ft S. of a black and white witness post for a drain cemented in a concrete headwall for 3 ft box culvert, a standard tablet stamped "29 CDL 1974" 1106.602
- 32 31.0 Reference mark, 16.3 ft N. and 30 ft W. of tablet, 39 ft S. and 49 ft W. of centerline of road at T-rd. W., 1 ft NE. of a fence corner and 1.5 ft N. of a telephone pole on top of a rail used for a hwy. right-of-way marker 1106.57

NEVADA QUAD. - 149

- 35 32.1 UE 29 A, 1 mi S. along road from tablet (Hwy. 65), T. 86 N., R. 21 W., sec. cors. 20, 21, 28 and 29, 45.9 ft N. and 55.8 ft E. of; and 1.6 ft higher than crossroads and 1.3 ft S. and 4 ft E. of a fence corner on top of a 0.24-in. rod which is in a concrete right-of-way post 1131.80
- 36 32.6 Hubbard, jct. of U.S. Hwy. 65 and State Hwy. 175, 5.25 mi S. of; T. 86 N., R. 21 W. near the quarter cor. between secs. 28 and 29, 10 ft N. and 47 ft W. of centerline of hwy. at fence line W., 10 ft N. and 3.3 ft W. of a fence corner and 70 ft S. and 47 ft W. of centerline of hwy. and a private drive W., set on top of a concrete post which projects 0.5 ft above ground, a disk stamped "I.G.S. 42-112" 1115.523

LINE 2

C.D. Lien, 1974; Book CV-3126

RADCLIFFE QUAD. - 174

- 4 8 0.0 Iowa Falls at the jct. of Union and River Street, 3.3 mi S. of; along U.S. Hwy. 65, T. 89 N., R. 20 and 21 W., sec. cors. 25, 30, 31 and 36, 70.1 ft SW. of the NE. cor. of sec. 36, at the jct. of a road leading W., 92.8 ft S. of a concrete road marker, 97.7 ft W. of another concrete road marker, 48.5 ft W. of centerline of hwy., 14.0 ft S. of a fence corner and 1.5 ft E. of a right-of-way fence set on top of a concrete post set flush with ground, a standard I.G.S. disk stamped "42 140" 1127.786
- 14 2.2 UE 141 A, 1.1 mi S. along hwy. from tablet, T. 88 N., R. 21 W., quarter cor. between secs. 2 and 11, a copper nail and washer in centerline of crossroads 1146.73
- 17 3.2 UE 141 B, 2.1 mi S. along hwy. from tablet, T. 88 N., R. 21 W., near the quarter cor. between secs. 11 and 14, 32.8 ft S. and 32.8 ft E. of and 0.2 ft higher than crossroads and 1.1 ft N. of a fence corner; a chiseled square on top of a concrete right-of-way post; set flush with ground 1162.42
- 19 4.2 Iowa Falls, intersection of Union and River Street, 7.3 mi S. of, along U.S. hwy. 65, T. 88 N., R. 21 W., near the quarter cor. between secs. 14 and 23, 128 ft N. and 20.3 ft W. of and 0.9 ft higher than T-rd. W.; 9.7 ft S. and 13.5 ft E. of a fence corner fence cor. NE. cor. of yard and 2.2 ft S. of a black and white round wooden post, cemented in the top of a headwall of a 3 ft concrete box culvert, a standard tablet stamped "34 CDL 1974" 1136.200
- 20 4.2 Reference mark, 21.4 ft N. and 45.5 ft E. of a T-rd. W., 106.6 ft S. and 64.8 ft E. of tablet, 2.0 ft S. of a fence corner and 2.2 ft N. of a telephone pole, a chiseled cross on top of a RR. rail used for a hwy. right-of-way marker 1132.06
- 24 5.2 UE 34 A, 1 mi S. along hwy. from tablet, T. 88 N., R. 21 W., near the quarter cor. between sec. 23 and 26, 12 ft S. and 13.7 ft W. of; and 0.7 ft higher than centerline of bridge; a chiseled square in the SW. cor. of a concrete bridge 1099.74

LINE 2 (Cont'd)

RADCLIFFE QUAD. - 174

FEET

- | | | | | |
|----|-----|-----|---|----------|
| 4 | 27 | 6.2 | UE 34 B, 2.03 mi S. along hwy. from tablet, T. 88 N., R. 21 W. quarter cor. between secs. 26 and 35, 87 ft S. and 18.7 ft E. of; and 0.8 ft lower than crossroads, a chiseled square on a headwall of a 2 ft concrete box culvert | 1092.76 |
| 29 | 6.7 | | Reference mark, 45 ft N. and 41 ft E. of tablet, 9.3 ft N. and 60.2 ft E. of centerline of road at E.-W. field entrances and 22 ft S. and 60.2 ft E. of centerline of road at a fence line E., a punched hole in a metal culvert | 1058.23 |
| 30 | 6.7 | | Iowa Falls, at the intersection of Union and River Street, 9.8 mi S. of along U.S. Hwy. 65, T. 88 N., R. 21 W., near the center of sec. 35, 77.4 ft S. and 19.4 ft E. of; and 2.1 ft lower than centerline of road at a fence line E., 49 ft S. and 19.4 ft E. of centerline of road at E.-W. field entrances and 2.7 ft N. of a round wooden post painted black and white cemented in the top of a headwall for a 5 ft concrete box culvert, a standard tablet stamped "35 CDL 1974" | 1061.151 |
| 32 | 7.4 | | UE 35 A, 0.7 mi S. along road from tablet, a copper nail and washer in centerline of road at T-rd. W. at offset crossroads | 1079.15 |
| 34 | 8.2 | | UE 35 B, 1.4 mi S. along road from tablet, T. 87 N., R. 21 W. near the quarter cor. between sec. 2 and 11, 67 ft S. and 15 ft W. of; and 0.9 ft higher than centerline of bridge over the S. fork of the Iowa River, a chiseled square in the SW. cor. of bridge | 1043.49 |
| 37 | 8.8 | | Hubbard, at the jcts. of U.S. Hwy. 65 and St. Hwy. 175, 6.25 mi NE. along U.S. Hwy. 65, T. 87 N., R. 21 W. at the jct. of U.S. Hwy. 65 and State Hwy. 175, in the center of sec. 11, 35.8 ft S. of the center of the Hwy. 175 at a fence S., 41.8 ft NW. of the E. concrete tie-in. monument on the S. side of hwy. and 20.7 ft N. of a T-fence S., set in the top of a concrete which projects 0.2 ft above ground, a standard disk stamped "I.G.S. 42-99" | 1125.214 |

LINE 3

L.A. Perry, 1974; Book CV-3128

STATE CENTER QUAD. - 148

- | | | | | |
|---|----|------|---|---------|
| 5 | 57 | 28.9 | UE 21 A, about 0.5 mi W. along county road D-65 from BM, 39 ft S., 31 ft W. of and 7 ft lower than centerline of crossroads, top of S. end of 18-in. concrete tile, a chiseled square | 1139.60 |
|---|----|------|---|---------|

NEVADA QUAD. - 149

- | | | | | |
|----|------|--|--|----------|
| 60 | 29.9 | | UE 21 B, about 1.5 mi W. along county road D-65 from BM, at centerline of T-rd. S., a painted plus | 1093.24 |
| 63 | 30.9 | | Reference mark, about 98 ft N., 16 ft E. of BM 22 LAP; 54 ft N., 16 ft E. and 1.5 ft lower than T-rd. N., center of E. headwall, a chiseled square | 1060.00 |
| 64 | 31.0 | | Hubbard, Hardin County, about 5 mi S. and 1 mi E. of; T. 86 N., R. 21 W., near N $\frac{1}{4}$ corner sec. 27, 44 ft S. of centerline of T-rd. N., 2.5 ft NE. of fence corner post, 1.8 ft N. of S. right-of-way fence, 2.4 ft SE. of sign post; 1 ft N. of USGS witness post, a standard rod supported tablet welded to copper coated rod driven 18 ft to refusal, set in 6-in. of concrete drain tile filled with gravel and stamped "22 LAP 1974" | 1059.533 |
| 71 | 33.0 | | Hubbard, Hardin County, jct. of U.S. Hwy. 65 and 175, 5.25 mi S. of; T. 86 N., R. 21 W., near E $\frac{1}{4}$ cor. sec. 29, 10 ft N. and 47 ft W. of centerline of Hwy. at fence W., 10 ft N. and 3.3 ft E. of fence corner post; 70 ft S. and 47 ft W. of centerline of road at private drive W., set in the top of concrete post, projecting 0.5 ft, a standard USC&GS and State Survey disk stamped "42-112" | 1115.523 |

LINE 4

FEET

L.A. Perry, 1974; Book CV-3128

RADCLIFFE QUAD. - 174

- | | | | | |
|----|-----|--|--|----------|
| 6 | 3 | 0.0 | BM, Hubbard, Hardin Co. about 3.75 mi N. and 2.5 mi E. along U.S. Hwy. 65 and State Hwy. 175 from Jct. at; T. 87 N., R. 21 W., near center of sec. 11, 35.8 ft S. of centerline of State Hwy. 175 at fence S., 41.8 ft NW. of E. concrete tie-in monument on S. side of hwy. 20.7 ft N. of T-fence S.; a standard State Survey disk set in top of concrete post projecting 0.2 ft above ground and stamped "42-99" | 1125.214 |
| 5 | 1.0 | UE 99 B, 0.5 mi E. along State Hwy. 175 and 0.5 mi S. along gravel road from BM, 6 ft S., 24 ft W. and 3.8 ft lower than centerline of T-rd. E.; top of S. end of concrete culvert, a chiseled square | 1118.42 | |
| 6 | 1.5 | UE 99 C, 0.5 mi E. along State Hwy. 175, thence 1.0 mi S. of BM, centerline of crossroads | 1110.1 | |
| 7 | 2.0 | UE 99 D, 0.5 mi E. along State Hwy. 175 and 1.5 mi S. along gravel road from BM, centerline crossroads | 1102.5 | |
| 9 | 2.5 | BM, Hubbard, Hardin Co., about 1.75 mi N. and 2.5 mi E. of; T. 87 N., R. 21 W. near W $\frac{1}{4}$ sec. 24, 34 ft E. and 1.9 ft lower than road at fence E., at NW. corner of farm grove, 1.5 ft S. of a fence corner, 0.8 ft W. of E. right-of-way fence, 1.5 ft N. of USGS witness post; a standard rod supported tablet welded to copper coated rod, driven 12 ft refusal, set in 6-in. concrete drain tile filled with gravel and stamped "23 LAP 1974" | 1112.783 | |
| 12 | 3.3 | UE 23 A, about 0.77 mi S. along gravel road from BM, 6 ft S. and 28 ft E. of and 1.5 ft lower than road at E.-W. fences, top of N. end of concrete culvert, a painted square | 1100.78 | |
| 14 | 3.8 | UE 23 B, about 1.0 mi S. and 0.25 mi W. along gravel roads from BM, centerline of T-rd. E. | 1050.9 | |
| 16 | 4.5 | BM, Hubbard, Hardin Co., approx. 2.25 mi E. of; near center of NE $\frac{1}{4}$ sec. 35, T. 87 N., R. 21 W.; 37 ft S., 32 ft E. of and 0.75 ft higher than crossroads, 2.5 ft SE. of power pole, 1.8 ft SSW. fence cor. post, 1.0 ft W. of fence, 1.8 ft NW. of USGS witness post; a standard tablet welded to copper coated rod, driven 14 ft refusal, set in 6-in. concrete drain tile filled with gravel and stamped "24 LAP 1974" | 1116.704 | |
| 17 | 4.5 | Reference mark, 87 ft W. and 21.5 ft N. of BM, 55 ft W., 15.5 ft S. of crossroads, 0.2 ft N. of S. end, 2 ft steel culvert; a chiseled plus | 1115.63 | |
| 19 | 5.3 | UE 24 A, 0.75 mi S. along gravel road from BM, centerline of offset crossroads (in line with E. edge of road N. and W. edge of road S.), a copper nail and washer | 1105.94 | |
| 22 | 6.2 | UE 24 B, approx. 1.7 mi S. along gravel road from BM, 10 ft N. and 15 ft E. of and 2.0 ft lower than road at drain, on top of N. end of E. bridge sill, a copper nail and washer | 1067.80 | |
| 25 | 6.9 | UE 24 C, approx. 2.1 mi S. and 0.25 mi E. along gravel roads from BM; centerline of road at centerline of drain on concrete bridge, a painted plus | 1034.16 | |
| 27 | 7.2 | UE 24 D, about 2.6 mi S. along gravel road from BM, bridge centerline of road at centerline of drive | 1032.6 | |
| 29 | 7.5 | Reference mark, 30 ft E. of BM, center of E. headwall, a chiseled square | 1057.90 | |
| 30 | 7.5 | BM, Hubbard, Hardin Co., about 2.75 mi S. and 2.5 mi E. of, about 0.1 mi N. of SE. cor. sec. 11, T. 87 N., R. 21 W.; 14 ft W. of and 0.8 ft lower than road at culvert; a standard tablet cemented in center of W. headwall and stamped "25 LAP 1974" | 1057.768 | |

LINE 4 (Cont'd)

RADCLIFFE QUAD. - 174

FEET

6 32 8.0 UE 25 A, about 0.5 mi S. along gravel road from BM, 12 ft E. of center of road at drain;
centerline of E. headwall, a chiseled square

1109.39

STATE CENTER QUAD. - 148

36 9.3 UE 25 B, about 1.35 mi S. and 0.5 mi E. along gravel roads from BM, 45 ft N. and 18 ft
W. of T-rd. W.; 3.2 ft above drain; centerline of W. headwall of concrete culvert, a
painted square

1154.09

40 10.1 UE 21 A, about 0.5 mi W. along county road D-65 from BM "21 LAP 1974", 39 ft S., 31 ft W.
of and 7 ft lower than crossroads, top of S. end of 18-in. concrete tile, a chiseled
square

1139.60