

THIRD-ORDER LEVELS  
NATIONAL GEODETIC VERTICAL DATUM OF 1929

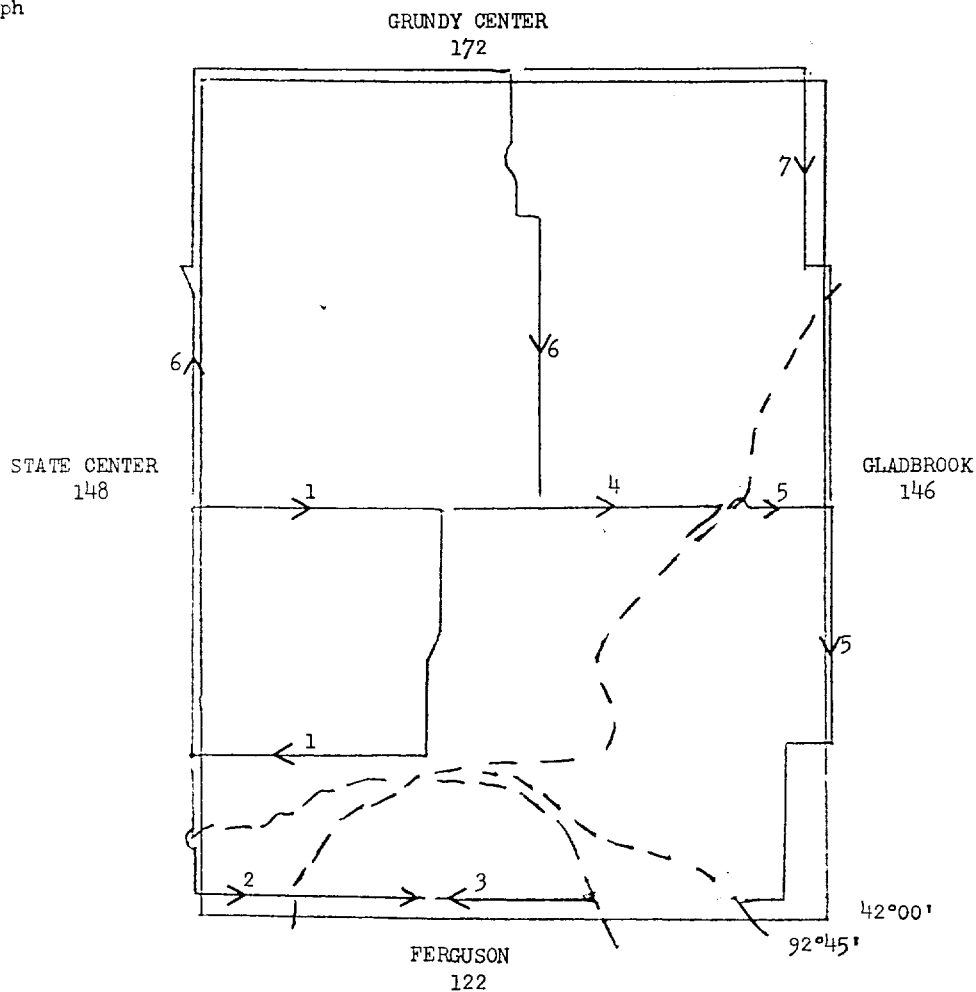
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Grundy, Marshall and Tama Counties

42-092-33  
MARSHALLTOWN QUADRANGLE  
147 - IOWA  
N4200-W9245/15  
DIAGRAM NK 15-5  
WATERLOO

Edition of: 1-6-81

PR: ADP/CB/ph



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

Quadrangle No. 420923

A. Line No. 3

B. Line No. 7

C. Line No. 47

Line No. 70

147-B

2  
42-092-33  
MARSHALLTOWN QUADRANGLE  
147 - IOWA

LINE 1

FEET

J. Heintz, 1957; Book CV-861-a

MARSHALLTOWN QUAD. - 147

0 At Marshalltown, Marshall County, on Center Street, at the City Hall, 40 ft W. centerline of Center St., 13.7 ft N. centerline E. entrance to City Hall and 4.3 ft W. of W. edge sidewalk; a standard disk stamped "MARSHALLTOWN 1933" and set in the top of a concrete post 938.345

7 Marshalltown, 2 mi W. of, near NE. cor. sec. 33, T. 84 N., R. 18 W., 63 ft S. and 19 ft E. of centerline railroad crossing, 35 ft E. power pole, 2 ft N. of fence, at short jog in fence S.; in concrete post, standard tablet stamped "1 FJH 1957" 920.718

7 Reference mark, RR. spike in base of power pole 35 ft W. of tablet 921.69

6 UE, RR. spike in base of power pole, 28 ft N. and 42 ft E. of centerline private drive S. at top of hill 1004.6

STATE CENTER QUAD. - 148

2 Marshalltown, Courthouse, 5 mi W. of, near cor. secs. 25, 30, 31 and 36, T. 84 N., Rs. 18 and 19 W.; 84 ft S. and 31 ft W. of center crossroads, 2 ft E. fence, on N. end small dirt mound, 3 ft N. power pole; in concrete post, standard tablet stamped "II 2 FJH 1957" 963.896

2 Reference mark, RR. spike in base of power pole; 36 ft S. and 38 ft W. of centerline crossroads 958.78

1 UE, RR. spike in base pole, 25 ft E. centerline rd. at crest 980.1

6 UE, chiseled square, top concrete coping at SE. corner small concrete bridge 915.62

2 Marshalltown, Courthouse, 5 mi W. and 2.5 mi N. of, T. 84 N., Rs. 18 and 19 W., near the NW. cor. sec. 18, 46 ft S. and 166 ft E. of centerline railroad crossing, 3 ft N. fence, 6 ft SW. corner high wire fence around power transformers; in concrete post; standard tablet stamped "II 3 FJH 1957" 890.243

2 Reference mark, RR. spike in base of power pole 70 ft S. and 30 ft E. of centerline RR. crossing 891.11

7 UE, chiseled square, top concrete coping at SE. corner concrete bridge 896.69

8 UE, chiseled square, top concrete coping top SE. corner concrete highway overpass 933.92

UE, centerline cross-streets, at junction of County Highways H, V and 233; at the NE. cross-streets of school 961.6

UE, chiseled square on top center W. headwall concrete culvert 960.32

| <u>LINE 1 (Cont'd)</u>                                                                                                                                                                                                                                                                                                         | <u>STATE CENTER QUAD - 148</u>  | <u>FEET</u> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------|
| 10.2 Marshalltown, 6 mi N. and 5 mi W. of, near the NW. cor. sec. 6, Tps. 84 and 85 N., Rs. 98 and 19 W., 33 ft S. and 238 ft E. of crossroads, 2 ft N. fence, 6 ft E. fence post at dim field approach; in concrete, standard tablet stamped "TT 4 FJH 1957"                                                                  |                                 | 953.633     |
| 10.2 Reference mark, RR. spike in base pole 77 ft E. of tablet                                                                                                                                                                                                                                                                 |                                 | 951.39      |
|                                                                                                                                                                                                                                                                                                                                | <u>MARSHALLTOWN QUAD. - 147</u> |             |
| 10.6 UE, RR. spike in base of pole in SW. corner I-rd. S.                                                                                                                                                                                                                                                                      |                                 | 957.0       |
| 11.9 UE, chiseled square, top 24-in. concrete pipe culvert, top W. end culvert across N.-S. rd. at SW. corner crossroads                                                                                                                                                                                                       |                                 | 970.43      |
| 12.9 Marshalltown, 6 mi N. and 2 mi W. of, near the NW. cor. sec. 3, Tps. 84 and 85 N., R. 18 W., 90 ft S. and 96 ft W. of W. end concrete bridge, 2 ft N. fence; in concrete post; standard tablet stamped "5 FJH 1957"                                                                                                       |                                 | 901.094     |
| 12.9 Reference mark, I.H.C. B.M., top concrete coping at SW. corner concrete bridge, a copper bolt set in place in concrete bridge, stamped "IHC - BM" Elevation by Iowa Highway Department "Not on Sea Level Datum" 974.27 feet                                                                                               |                                 | 908.40      |
| 14.9 Reference mark, RR. spike in base power pole 63 ft N. tablet                                                                                                                                                                                                                                                              |                                 | 937.11      |
| 14.9 Marshalltown, 6 mi N. at junction State Highways 14 and 233, near the cor. secs. 1, 2, 35 and 36, Tps. 84 and 85 N., R. 18 W., 123 ft S. and 46 ft W. of center crossroads, 1 ft N. fence corner; in concrete post, standard tablet stamped "6 FJH 1957"                                                                  |                                 | 940.420     |
| 15.2 UE, IHC B.M., copper bolt and washer cemented in place in top guard rail in NW. corner small concrete bridge; stamped "IHC BM"                                                                                                                                                                                            |                                 | 925.03      |
| 16.6 Marshalltown, 3 mi N. of along State Highway 14, near cor. secs. 11, 12, 13 and 14, T. 84 N., R. 18 W., 41 ft W. of I-rd. E., 3 ft E. fence line N.-S., on line with centerline I-rd. E. and fence line W.; in concrete post; standard tablet stamped "7 FJH 1957"                                                        |                                 | 914.815     |
| 16.6 Reference mark, RR. spike in base pole 31 ft N. of tablet                                                                                                                                                                                                                                                                 |                                 | 917.06      |
| 18.8 Marshalltown, 1.7 mi N. of the City Hall, on State Highway 14, in the city park, approximately 200 ft N. of the S. entrance, in fork of park drives, in the center of and directly under large fireman bell mounted on small steel tower approximately 20 ft high; in concrete post, standard tablet stamped "8 FJH 1957" |                                 | 868.032     |
| 18.8 Reference mark, RR. spike in base pole 45 ft W. tablet                                                                                                                                                                                                                                                                    |                                 | 868.12      |
| 20.1 USC&GS BM "MARSHALLTOWN 1933" (Described in Line 1.)                                                                                                                                                                                                                                                                      |                                 | 938.345     |

4  
42-092-33  
MARSHALLTOWN QUADRANGLE  
147 - IOWA

LINE 2

FEET

J. Heintz, 1957; Book CV-861-a

STATE CENTER QUAD. - 148

|                                                                 |         |
|-----------------------------------------------------------------|---------|
| .0 "IT 2 FJH 1957" (Described in Line 1.)                       | 963.896 |
| .9 UE, chiseled square, top S. end W. headwall concrete culvert | 947.00  |
| .4 UE, chiseled square, top N. end of E. headwall of RR. bridge | 920.43  |

MARSHALLTOWN QUAD. 147

|                                                                                                                                                                                                                                                                                                                       |         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| .8 Reference mark, chiseled square, top E. end 24-in. concrete pipe culvert on S. side Highway 30                                                                                                                                                                                                                     | 996.05  |
| .8 Marshalltown, Courthouse, 3 mi S. and 5 mi W. of, T. 83 N., R. 18 and 19 W., intersection State Highway 30 and County Rd. "Q", 102 ft S. and 122 ft E. of crossroads, 2 ft N. fence line, near cor. secs. 7, 12, 13 and 18; in concrete post; standard tablet stamped "IT 9 FJH 1957"                              | 997.277 |
| .8 Marshalltown, Courthouse, 3 mi S. and 3 mi W. of, T. 83 N., R. 18 W., near cor. secs. 8, 9, 16 and 17, 79 ft N. and 200 ft W. of crossroads, approximately 300 ft E. of RR. overpass, top high bank on N. side Highway 30, 8 ft N. and 6 ft W. of pole; in concrete post, standard tablet stamped "IT 10 FJH 1957" | 962.161 |
| .8 Reference mark, RR. spike in base pole, 8 ft S. and 4 ft E. of tablet                                                                                                                                                                                                                                              | 962.77  |
| .8 Marshalltown, Courthouse, 3 mi S. and 0.3 mi W. of, near cor. secs. 10, 11, 14 and 15, T. 83 N., R. 18 W., 116 ft S. and 69 ft E. of centerline highway at private drive S., opposite the Iowa Farm Co. brick building, 2 ft N. I-fence S.; in concrete post; standard tablet stamped "IT 11 FJH 1957"             | 982.985 |
| .8 Reference mark, RR. spike in base pole approximately 50 ft E. of tablet                                                                                                                                                                                                                                            | 978.53  |
| .4 Marshalltown, 3 mi S. and 1.5 mi E. of, T. 83 N., R. 17 and 18 W., near cor. secs. 7, 12, 13 and 18, 60 ft N. and 17 ft W. of centerline highway at field approach N., 5 ft W. I-fence N.; in concrete post; standard tablet stamped "IT 12 FJH 1957"                                                              | 967.830 |

LINE 3

J. Heintz, 1957; Book CV-861-e

MARSHALLTOWN QUAD. - 147

|                                                                                                                                                                                                                                                                                                                                    |         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| .0 BM, about 2.4 mi NW. along the Minneapolis and St. Louis RR. from the station at Dillon, Marshall County, about 14 poles S. of milepost 248, at the bridge over U.S. Highway 30, in the E. side concrete leg, 17 ft W. centerline track and about 5 ft higher than rail; a standard disk stamped "K 88 1934" and set vertically | 891.104 |
| .8 Reference mark, (IT 13 FJH 1957), RR. spike in pole                                                                                                                                                                                                                                                                             | 881.71  |

LINE 3 (Cont'd)

MARSHALLTOWN QUAD. - 147

FEET

|     |                                                                                                                                                                                                                                                                                                         |         |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 0.8 | Marshalltown, 3 mi S. and 3.5 mi E. of, near cor. secs. 8, 9, 16 and 17, T. 83 N., R. 17 W., at the junction of old Highway 30 and new Highway 30, 38 ft S. of and on intersection of prolonged centerline of old Highway 30, 2 ft N. fence; in concrete post; standard tablet stamped "TI 13 FJH 1957" | 883.075 |
| 1.0 | UE, chiseled square, top concrete curb at NW. end concrete bridge                                                                                                                                                                                                                                       | 877.64  |
| 2.7 | Reference mark, top iron rod in concrete post for section corner marker, 17 ft W. tablet                                                                                                                                                                                                                | 968.17  |
| 3.4 | BM "TI 12 FJH 1957" (Described in Line 2.)                                                                                                                                                                                                                                                              | 967.830 |

LINE 4

F. J. Heintz, 1957; Book CV-861-b

MARSHALLTOWN QUAD. - 147

|     |                                                                                                                                                                                                                                                     |         |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 0.0 | "6 FJH 1957" (Described in Line 1.)                                                                                                                                                                                                                 | 940.420 |
| 0.5 | UE, chiseled square, top W. end N. headwall concrete culvert                                                                                                                                                                                        | 936.37  |
| 1.2 | UE, RR. spike in base pole, 28 ft N. and 60 ft W. of centerline crossroads                                                                                                                                                                          | 985.2   |
| 2.4 | Marshalltown, 6 mi N. and 2 mi E. of, near cor. secs. 5, 6, 31 and 32, Tps. 84 and 85 N., R. 17 W., 32 ft N. and 139 ft W. centerline crossroads, 1 ft S. and 1 ft W. corner fence post; in concrete post, standard tablet stamped "TI 14 FJH 1957" | 912.770 |
| 2.4 | Reference mark, chiseled square, top W. end N. headwall concrete culvert, 31 ft N. and 20 ft E. centerline crossroads                                                                                                                               | 914.05  |
| 2.9 | UE, chiseled square, top W. end N. headwall concrete culvert                                                                                                                                                                                        | 922.57  |
| 4.3 | UE, RR. spike in base pole, 45 ft N. and 33 ft E. centerline rds.                                                                                                                                                                                   | 981.3   |
| 4.5 | UE, chiseled square, top headwall at NW. corner concrete culvert with high headwall                                                                                                                                                                 | 950.29  |
| 5.3 | Marshalltown, 6 mi N. and 5 mi E. of, near cor. secs. 2, 3, 34 and 35, Tps. 84 and 85 N., R. 17 W., 31 ft N. and 465 ft E. of centerline crossroads, 2 ft W. of corner fence post; in concrete post; standard tablet stamped "15 FJH 1957"          | 964.828 |
| 5.3 | Reference mark, RR. spike, 31 ft S. and 33 ft E. of centerline crossroads                                                                                                                                                                           | 963.57  |
| 6.1 | UE, top S. rail at RR. crossing                                                                                                                                                                                                                     | 1016.4  |
| 6.4 | UE, top W. rail at centerline RR. crossing                                                                                                                                                                                                          | 1013.9  |

LINE 4 (Cont'd)

MARSHALLTOWN QUAD. - 147

FEET

6.9 BM, at Green Mountain, Marshall County, about 375 ft N. of N. end Great Western RR. station, at pole 311+28, 60 ft S. of centerline rd. crossing, at the northernmost elevator of the Farmers Elevator Co., 3 ft S. of S. face, 26 ft NW. of centerline main track; a standard disk stamped "W 10 1933" and set in top concrete post 999.358

LINE 5

J. Heintz, 1957; Book CV-861-b

MARSHALLTOWN QUAD. - 147

0.0 "15 FJH 1957" (Described in Line 4.) 964.828  
0.0 UE, top W. rail at centerline rd. at RR. crossing 1024.9  
0.9 UE, RR. spike in base pole, 30 ft S. and 30 ft W. centerline crossroads 1010.1

GLADBROOK QUAD. - 146

0.2 Marshalltown, 6 mi N. and 8 mi E. of, near cor. secs. 5, 6, 3 and 2, Tps. 84 and 85 N., R. 16 W., 348 ft S. and 32 ft E. of centerline T-rd. E., 1 ft W. of T-fence corner post E.; in concrete post; standard tablet stamped "TI 16 FJH 1956" 1014.394  
0.2 Reference mark, RR. spike 6 ft N. tablet 1014.67  
0.3 UE, RR. spike in pole 1012.5  
0.4 Reference mark, RR. spike 4 ft E. of tablet 994.74  
0.6 Marshalltown, 4 mi N. and 8 mi E. of, T. 84 N., R. 16 W., near cor. secs. 7, 8, 17 and 18, 179 ft S. and 36 ft W. of centerline crossroads, 2 ft E. fence line, 4 ft W. of pole; in concrete post, standard tablet stamped "TI 17 FJH 1957" 993.753  
0.7 UE, chiseled square, top concrete curb at NE. corner small bridge approximately 300 ft N. crossroads 940.2  
0.2 UE, RR. spike in pole 6 ft S. and 28 ft W. of centerline private drive W. at top hill 1004.82  
0.4 Marshalltown, 8 mi E. of, near cor. secs. 29, 30, 31 and 32, T. 84 N., R. 16 W., at the NW. corner of cemetery, 32 ft N. and 72 ft E. of NE. corner of church; in concrete post; standard tablet stamped "TI 18 FJH 1957" 988.056  
0.4 Reference mark, spike in pole approximately 100 ft W. of tablet 986.88

LINE 5 (Cont'd)

MARSHALLTOWN QUAD. - 147

FEET

- |      |                                                                                                                                                                                                                                                                               |         |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 9.6  | UE, chiseled square, top concrete headwall at corner wing wall                                                                                                                                                                                                                | 950.55  |
| 10.9 | Reference mark, top bridge bolt on W. guard rail at S. end bridge, at S. end of span near steel upright girder                                                                                                                                                                | 849.12  |
| 10.9 | Marshalltown, 1 mi S. and 7 mi E. of, near NW. cor. sec. 6, Tps. 83 and 84 N., Rs. 16 and 17 W., 247 ft S. of the S. end steel bridge and 27 ft E. centerline rd., 2 ft W. pole; in concrete post, standard tablet stamped "IT 19 FJH 1957"                                   | 841.962 |
| 12.8 | Marshalltown, 3 mi S. and 7 mi E. of, near cor. secs. 7, 12, 13 and 18, T. 83 N., Rs. 16 and 17 W., 84 ft N. and 106 ft W. of centerline Highway 30 at T-rd. N., 2 ft E. pole; in concrete post, standard tablet stamped "IT 20 FJH 1957"                                     | 867.674 |
| 12.8 | Reference mark, RR. spike in base power pole, 60 ft E. of tablet                                                                                                                                                                                                              | 868.52  |
| 13.8 | UE, top S. rail centerline RR. crossing                                                                                                                                                                                                                                       | 939.8   |
| 14.1 | BM, at LeGrand, Marshall County, on the Chicago and Northwestern RR., about 9 poles W. of milepost 143, 138 ft E. of the station, 54 ft N. centerline RR. main track, 20 ft S. of right-of-way fence and about 1 ft higher than the rail; a standard disk stamped "F 83 1934" | 938.968 |

LINE 6

F. J. Heintz, 1958; Book CV-1063-a

STATE CENTER QUAD. - 148

- |     |                                                                                                                                                                                                                                                                                                                           |         |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 0.0 | Marshalltown, 6 mi N. and 5 mi W. of, near the NW. cor. sec. 6, Tps. 84 and 85 N., Rs. 18 and 19 W., 33 ft S. and 238 ft E. of crossroads, 2 ft N. fence, 6 ft E. fence post, at dim field approach; in concrete post, standard tablet stamped "IT 4 FJH 1957 954"                                                        | 953.633 |
| 1.3 | UE, top E. rail, centerline RR. crossing, T. 85 N., Rs. 18 and 19 W., near cor. secs. 23, 24, 25 and 26                                                                                                                                                                                                                   | 968.6   |
| 1.5 | UE, top center of W. concrete headwall culvert                                                                                                                                                                                                                                                                            | 968.9   |
| 2.3 | Liscomb, 2.6 mi S. of along County Road H, T. 85 N. Rs. 18 and 19 W., near the cor. secs. 19, 24, 25 and 30, 148 ft S. and 33 ft W. of centerline crossroads, 33 ft W. centerline County Road H and 30 ft E. of the E. rail of RR. tracks, on RR. right-of-way; in concrete post; standard tablet stamped "IT 3 FJH 1958" | 974.239 |
| 2.3 | Reference mark, RR. spike in power pole 30 ft N. and 27 ft E. of centerline crossroads                                                                                                                                                                                                                                    | 973.59  |
| 3.5 | UE, Centerline crossroads, T. 85 N., Rs. 18 and 19 W., near cor. secs. 13, 18, 19 and 24                                                                                                                                                                                                                                  | 983.5   |
| 4.0 | UE, top E. rail, centerline RR. crossing                                                                                                                                                                                                                                                                                  | 989.5   |

NE 6 (Cont'd)

STATE CENTER QUAD. - 148

FEET

|    |                                                                                                                                                                                                                        |          |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 7  | Liscomb, T. 85 N., Rs. 18 and 19 W., near the SW. cor. sec. 7, 450 ft N. of junction County Roads H and K, 30 ft E. centerline County Road K, 2 ft W. fence; in concrete post, standard tablet stamped "TI 2 FJH 1958" | 1002.632 |
| 8  | Reference mark, spike in pole approximately 80 ft W. of tablet                                                                                                                                                         | 1005.45  |
| 3  | UE, top center W. concrete headwall of culvert                                                                                                                                                                         | 939.4    |
| 2  | UE, RR. spike in pole 45 ft S. and 33 ft W. of centerline crossroads, Tps. 85 and 86 N., Rs. 18 and 19 W., near cor. secs. 1, 6, 31 and 36                                                                             | 932.2    |
| 6  | UE, top center W. concrete headwall, large culvert                                                                                                                                                                     | 926.7    |
| 0  | Witten, 2.6 mi S. of along County Road K, T. 86 N., Rs. 18 and 19 W., near cor. secs. 25, 30, 31 and 36, 144 ft S. and 40 ft W. of centerline crossroads; in concrete post, standard tablet stamped "TI 1 FJH 1958"    | 929.111  |
| 0  | Reference mark, RR. spike in pole 45 ft N. and 54 ft E. centerline crossroads                                                                                                                                          | 931.50   |
| UE | center concrete bridge                                                                                                                                                                                                 | 942.9    |

GRUNDY CENTER QUAD. - 172

|   |                                                                                                                                                                                                                                             |          |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 3 | UE, RR. spike in power pole 27 ft N. and 54 ft W. of centerline crossroads, T. 86 N., Rs. 18 and 19 W., near cor. secs. 13, 18, 19 and 24                                                                                                   | 1033.6   |
| 3 | UE, Centerline crossroads, T. 86 N., R. 18 W., near cor. secs. 17, 18, 19 and 20                                                                                                                                                            | 1025.6   |
| 7 | Witten, 0.8 mi S. and 1.5 mi E. of, T. 86 N., R. 18 W., near the NE. corner of NW $\frac{1}{4}$ of sec. 20, 109 ft N. and 91 ft W. of centerline RR. crossing, 2 ft S. of fence; in concrete post; standard tablet stamped "TI 36 FJH 1957" | 990.033  |
| 8 | Reference mark, RR. spike in pole 42 ft W. along rd. and 27 ft S. (normal) rd.                                                                                                                                                              | 985.88   |
| 4 | UE, top NW. end concrete high headwall of concrete culvert, T. 86 N., R. 18 W., near cor. secs. 16, 17, 20 and 21                                                                                                                           | 976.6    |
| 2 | Whitten, 1 mi S. and 4 mi E. of, T. 86 N., R. 18 W., near the cor. secs. 22, 23, 24 and 25, 34 ft N. and 85 ft E. of center private drive N., 2 ft S. of T-fence; in concrete post, standard tablet stamped "TI 10 FJH 1958"                | 1037.227 |
| 2 | Reference mark, spike in pole approximately 110 ft E. of tablet                                                                                                                                                                             | 1039.77  |
| 5 | UE, centerline bridge                                                                                                                                                                                                                       | 1019.5   |

LINE 6 (Cont'd)

GRUNDY CENTER QUAD. - 172

FEET

- 17.0 Reference mark, spike in pole approximately 30 ft S. and 80 ft E. of crossroads 1053.97
- 17.0 Conrad, 2 mi N. of, T. 86 N., R. 17 W., near the SW. corner of SE $\frac{1}{4}$  sec. 18, 32 ft N. and 355 ft E. of center crossroads, 2 ft S. of I-fence N.; in concrete post, standard tablet stamped "TI 4 FJH 1958" 1053.310

MARSHALLTOWN QUAD. 147

- 17.7 UE, centerline rd. at fence corner E. and I-fence W. 1044.3
- 19.3 Conrad, near the NW. corner of the NE $\frac{1}{4}$  of sec. 31, T. 86 N., R. 17 W., approximately 390 ft W. and 38 ft N. of RR. crossing at Conrad, 4 ft E. power pole, 37 ft N. of the N. rail main track; in concrete post, standard tablet stamped "TI 33 FJH 1957" (Not found 4/74) 993.092
- 19.3 Reference mark, spike in pole approximately 200 ft W. of tablet 993.38
- 21.7 Conrad, RR. station, 2 mi S. and 0.5 mi E. of, near the corners 5, 6, 7 and 8, T. 85 N., R. 17 W., approximately 540 ft N. and 32 ft E. center crossroads, 21 ft N. and 32 ft E. of center rd. at field approach E., 3 ft W. fence line; in concrete post, standard tablet stamped "TI 32 FJH 1957" 1050.807
- 21.8 Reference mark, RR. spike in base pole, 130 ft S. tablet and 30 ft W. centerline rd. 1046.75
- 24.5 Conrad, RR. Station, 4.5 mi S. and 0.5 mi E. of, near quarter corner between secs. 19 and 20, T. 85 N., R. 17 W., at small jog in N.-S. fence line, at I-fence E., 32 ft E. centerline rd.; in concrete post; standard tablet stamped "TI 31 FJH 1957" 1022.831
- 24.6 Reference mark, spike in pole 210 ft S. and 30 ft E. of tablet 1016.44
- 27.1 "TI 14 FJH 1957" (Described in Line 4.) 912.770

LINE 7

F. J. Heintz, 1958; Book CV-1063-a,b

GRUNDY CENTER QUAD. - 172

- 0.0 "TI 4 FJH 1958" (Described in Line 6.) 1053.310
- 0.8 UE, top center concrete headwall culvert 1050.3
- 3.2 Conrad, 2 mi N. and 3 mi E. of, T. 86 N., R. 17 W., near the SW. corner of SE $\frac{1}{4}$  sec. 15, 30 ft N. and 196 ft E. of private drive S., 2 ft S. I-fence N.; in concrete post, standard tablet stamped "TI 5 FJH 1958" 1069.710
- 3.2 Reference mark, spike in pole 160 ft E. of tablet 1065.12

10  
42-092-33  
MARSHALLTOWN QUADRANGLE  
147 - IOWA

LINE 7 (Cont'd)

GRUNDY CENTER QUAD. - 172

FEET

- .3 Conrad, 2 mi N. and 6 mi E. of, T. 86 N., R. 16 W., near the SW. corner of SE $\frac{1}{4}$  of sec. 18, 345 ft S. and 30 ft E. centerline crossroads, 2 ft W. T-fence E.; in concrete post; standard tablet stamped "TT 6 FJH 1958" 1045.598
- .3 Reference mark, spike in pole 100 ft S. of tablet 1054.37

MARSHALLTOWN QUAD. - 147

- .4 Conrad, 0.5 mi S. and 6 mi E. of, T. 86 N., R. 16 W., near center sec. 31, 13 ft N. and 30 ft E. centerline rd. at field approach E., 2 ft W. of fence; in concrete post; standard tablet stamped "TT 7 FJH 1958" 1046.595
- .4 Reference mark, RR. spike in pole 200 ft S. of tablet 1043.99
- .3 UE, top N. rail centerline RR. crossing 961.3

GLADBROOK QUAD. - 146

- .1 Reference mark, top N. rail centerline RR. crossing 975.77
- Conrad, 2.5 mi S. and 6 mi E. of, T. 85 N., R. 16 W., near NW. cor. of SW $\frac{1}{4}$  sec. 8, 85 ft S. and 36 ft W. of centerline RR. crossing, 3 ft N. fence corner; in concrete post; standard tablet stamped "TT 8 FJH 1958" 972.325
- .8 UE, RR. spike in pole 40 ft N. and 30 ft E. centerline crossroads 1012.9
- .7 Conrad, 5 mi S. and 6.5 mi E. of, T. 85 N., R. 16 W., near cor. secs. 19, 20, 29 and 30, 114 ft N. and 35 ft E. of centerline crossroads, 3 ft N. and 2 ft E. of fence corner; in concrete post, standard tablet stamped "TT 9 FJH 1958" 974.398
- .7 Reference mark, spike in pole 30 ft N. and 40 ft W. centerline crossroads 968.24
- .0 "TT 16 FJH 1957" (Described in Line 5.) 1014.394