

THIRD ORDER LEVELS
SEA LEVEL DATUM OF 1929

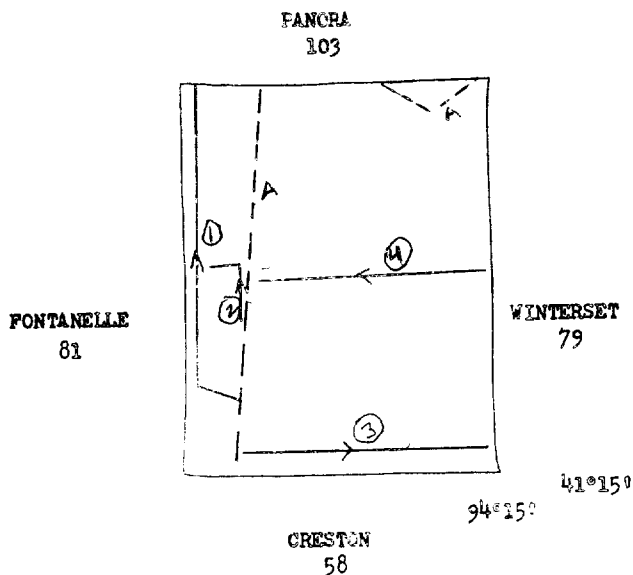
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

GREENFIELD QUADRANGLE
80 - IOWA
N4115-W9415/15

Adair County

Edition of 11/1/60

PR: AHS vde



USC&GS LEVELING LINES

A. Menlo, Iowa to Darlington, Missouri, 1935; Second order; Line No. 51

LINE 1

NORTH ALONG WEST BORDER (by J. D. Finch, 1953; Book CV 564)

0.0	USC&GS standard disk stamped "V 103 1935"	1375.424
0.5	UE V 103-A, 0.5 mi W. along gravel rd., at NW. cor. of crossroads, in power pole; rail spike	1333.51
1.1	UE V 103-B, 1.1 mi W. along gravel rd., about 250 ft N. of bend in rd., on E. side of rd., in power pole; rail spike	1295.64
1.8	UE V 103-C, 0.7 mi N. and 1.1 mi W. along gravel rd., 130 ft W. of T-rd. S., on top of NW. cor. of 2-in. angle iron guard rail of culvert; painted square	1310.8
2.3	Greenfield, 1.0 mi N. and 1.5 mi W. of, near cor. secs. 1, 2, 11 and 12, T. 76 N., R. 32 W., 520 ft N. of T-rd. N., 430 ft N. of Summerset No. 1 School, 28 ft W. of center of rd., 1 ft E. of fence, 9 ft N. of telephone pole; standard tablet stamped "1 JDF 1953"	1337.400
2.2	Reference mark, 520 ft S. of tablet, NE. cor. of rd. intersection, on concrete culvert; chiseled square	1299.11
2.6	UE 1 A, 0.5 mi N. along gravel rd., on SE. cor. of bridge guard rail 3 ft above bridge floor, 1 ft N. of bend in rail; 1-in. bolt head	1246.1
3.3	UE 1 B, 0.9 mi N. along gravel rd., 260 ft N. of crossroads, in center of bridge on E. side; copper nail and washer	1240.42
4.0	UE 1 C, 1.6 mi N. along gravel rd., 150 ft N. of cross fences, on W. side of rd., in power pole; rail spike	1306.82

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GREENFIELD QUADANGLE
80 - ICWA

LINE 1 (Cont'd)

	<u>Feet</u>
4.5 Greenfield, 3.0 mi N. and 1.5 mi W. of, near cor. secs. 25, 26, 35 and 36, T. 76 N., R. 32 W., 330 ft N. of crossroads, 105 ft N. of NE. cor. of schoolyard, 28 ft W. of center of rd., 1 ft E. of fence and 2 ft lower than center of rd.; standard tablet set in concrete stamped "2 JDF 1953"	1324.392
4.9 Reference mark, 160 ft NE. of tablet, on E. side of rd., in power pole; rail spike	1320.45
4.7 UE 2 A, 0.4 mi N. along gravel rd., 17 ft S. of E.-W. fence, on W. end of concrete box culvert on W. side of rd.; chiseled square	1304.72
5.2 UE 2 B, 0.9 mi N. along gravel rd., on NW. corn. of crossroads, in power pole; rail spike	1349.44
6.0 UE 2 C, 1.7 mi N. along gravel rd., on W. side of rd., in 18-in. concrete culvert; chiseled square	1356.63
6.3 Greenfield, 5.0 mi N. and 1.5 mi W. of, near cor. secs. 13, 14, 23 and 24, T. 76 N., R. 32 W., 530 ft N. of crossroads, 30 ft W. of center of rd., 1 ft E. of fence, 6 ft N. of telephone pole, 3 ft higher than center of rd.; standard tablet set in concrete stamped "3 JDF 1953"	1372.215
6.3 Reference mark, 90 ft SE. of tablet, on E. side of rd. and 10 ft N. of private driveway E., in power pole; rail spike	1370.69
7.0 UE 3 A, 0.7 mi N. along gravel rd., on W. side of rd. opposite private drive E., in power pole; rail spike	1368.28
7.2 UE, 3 B, 0.9 mi N. along gravel rd., 3.5 ft lower than intersection, in N. end of concrete culvert on NW. corner of crossroads; chiseled square	1318.77
7.6 UE 3 C, 1.3 mi N. along gravel rd., on W. end of concrete culvert on W. side of rd.; chiseled square	1275.48
8.1 Greenfield, 7.0 mi N. and 1.5 mi W. of, near cor. secs. 1, 2, 11 and 12, T. 76 N., R. 32 W., 640 ft S. of crossroads, 31 ft E. of center of rd., 1 ft W. of fence, 33 ft N. of telephone pole, 3 ft higher than center of rd.; standard tablet set in concrete stamped "4 JDF 1953"	1357.186
8.1 Reference mark, 210 ft NW. of tablet, on W. side of rd., in power pole; rail spike	1351.82
8.6 UE 4 A, 0.5 mi N. along gravel rd., in center of W. headwall creosoted wooden culvert; copper nail and washer	1277.98
9.2 UE 4 B, 1.1 mi N. along gravel rd., on NW. corner intersection of T-rd. W., in telephone pole; rail spike	1354.64
9.7 UE 4 C, 1.6 mi N. along gravel rd., on E. end of 24-in. metal pipe under rd.; painted square	1318.4
10.1 Greenfield, 9.0 mi N., 1.5 mi W. of, near cor. secs. 25, 26, 35 and 36, T. 77 N., R. 32 W., 590 ft S. of 3rd. S., 30 ft W. of center of rd., 1 ft E. of fence line, 1.5 ft lower than rd.; standard tablet set in concrete stamped "5 JDF 1953"	1264.769
10.1 Reference mark, 250 ft NE., on base of pump in school yard; chiseled square	1256.32
10.8 UE 5 A, 0.7 mi N. along gravel rd., 200 ft N. of crest of hill, on W. side of rd., in telephone pole; rail spike	1336.48
11.3 UE 5 B, 1.2 mi N. along gravel rd., in center of W. side of bridge; copper nail and washer	1229.53
11.9 UE 5C, 1.7 mi N. along gravel rd., in concrete culvert, on W. side of rd.; chiseled square	1279.20

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GREENFIELD QUADRANGLE
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LINE 1 (Cont'd)

	<u>Feet</u>
12.3 Greenfield, 11.0 mi N. and 1.5 mi W. of, near cor. secs. 13, 14, 23 and 24, T. 77 N., R. 32 W., 420 ft N. of crossroads, 33 ft E. of center of rd., 1 ft W. of fence line, and 15 ft N. of telephone pole; standard tablet set in concrete and stamped "6 JDF 1953"	1360.900
12.4 Reference mark, 720 ft N. along rd. from tablet, on concrete culvert on E. side of rd.; chiseled square	1322.19
12.5 UE 6 A, 0.5 mi N. along gravel rd., in center of wooden crescented culvert on W. side of rd.; copper nail and washer	1259.85
12.6 UE 6B, 0.5 mi N. along gravel rd., about 15 ft N. of fence E., on N. end of steel culvert located on E. side of rd.; painted square	1341.4
13.0 UE 6 C, 1.3 mi N. along gravel rd., on W. side of rd., on SW. cor. of bridge, in bridge piling; copper nail and washer	1233.61
13.1 Quincy, 1.0 mi S. and 1.5 mi E. of, near cor. secs. 1, 2, 11 and 12, T. 77 N., R. 32 W., 250 ft N. of crossroads, 32 ft W. of center of rd., 1 ft S. of E.-W. fence, 15 ft W. of fence corner, 150 ft N. of front entrance to Walnut No 1 Schoolhouse; standard tablet set in concrete stamped "7 JDF 1953"	1336.410
13.2 Reference mark, 150 ft S. of tablet, at entrance to schoolhouse, in concrete step; chiseled square	1318.60
14.6 UE 7 A, 0.3 mi N. along gravel rd., in concrete headwall on W. side of rd.; chiseled square	1261.44
15.3 UE 7 B, 1.0 mi N. along gravel rd., 65 ft W. and 8 ft N. of center of Y-rd., on 6-by-6 in. wooden curbing on NE. corner of bridge over Middle River; end bolt	1209.9

PANORA QUAD. - 108

15.6 UE 7 C, 1.5 mi N. along gravel rd., at rd. to house W., on S. end of concrete culvert; chiseled square NOTE: Levelman states this UE is not in place now.	1220.86
16.2 UE 7 D, 1.9 mi N. along gravel rd., in NE. corner of wooden RR. bridge, nail in wooden cross member below the rd.; copper nail and washer	1288.51
16.3 UE 7 E, 2.0 mi N. along gravel rd., in hwy. at center of crossroads; painted square	1283.8

LINE 2

NORTH AND WEST NEAR CENTER WEST BORDER (by J. D. Finch, 1953; Book CV 564)

0.4 UE S 103 A, 0.5 mi N. along gravel rd., 25 ft N. of E.-W. crossfence, on E. end of steel culvert; painted square	1324.3
1.0 UE S 103 B, 1.0 mi N. along gravel rd., on NE. corner of crossroads, in power pole; nail spike	1315.65
1.4 UE S 103 C, 1.0 mi N. and 0.4 mi W. along gravel rd., on bridge piling on SW. cor. of bridge; copper nail and washer	1280.03
2.0 Greenfield, 5.0 mi N. of, near secs. 17, 18, 19 and 20, T. 76 N., R. 31 W., 250 ft E. of crossroads, 25 ft N. of center of rd., 43 ft E. of private drive N., in yard of farmhouse of Gerald Herrick, 1 ft higher than rd.; standard tablet set in concrete stamped "8 JDF 1953"	1350.218
2.0 Reference mark, 360 ft W. of tablet, at entrance to Grove 4 Schoolhouse, on SW. cor. of concrete step; chiseled square	1343.90

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GREENFIELD QUADRANGLE
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<u>LINE 2 (Cont'd)</u>	<u>Feet</u>
2.5 US 6 A, 0.5 mi. W. along gravel rd., 150 ft E. of crossroads, in center on N. side of bridge; copper nail and washer	1255.74
3.1 US 6 B, 1.3 mi. W. along gravel rd., 310 ft W. of T-rd. S., in bridge piling on NW. corner of bridge; copper nail and washer	1255.55
3.6 US 6 C, 1.6 mi. W. along gravel rd., in S. end of concrete culvert; chiseled square	1294.53
<u>LINE 3</u>	
EAST ALONG SOUTH BORDER (J. E. Finch, 1953; Book CV 564)	
0.0 MCARS standard disk stamped "Y 103 1935"	1388.803
0.4 US 103 A, center of cross road, 0.5 mi. S. along gravel rd.	1369.0
0.7 US 103 B, 0.6 mi. S. and 0.1 mi. E. along rd., 0.1 mi. E. of crossroads, at center of rd.; top of E. rail	1376.1
1.1 US 103 C, 0.6 mi. S. and 0.5 mi. E. along gravel rd., in center on N. side of bridge; copper nail and washer	1298.61
1.7 Greenfield, 3.0 mi. S. and 0.5 mi. E. of, 35 ft N. and 288 ft E. of cross road at State Hwy. 25, near cor. secs. 29, 30, 31 and 32, T. 75 N. R. 31 W., 1 ft S. of N. right-of-way fence, in concrete post; standard tablet stamped "TT 6 T 1953"	1300.464
1.7 Reference mark, 95 ft S. and 320 ft W. of tablet, 65 ft S. and 20 ft W. of center of State Hwy. 25 and gravel rd. E.-W., on center of W. end of concrete culvert; chiseled square	1304.71
1.9 US 6 AA, 0.5 mi. E. along gravel rd., on SE. cor. of bridge, 2 ft below bridge floor, on 2-in. steel I-beam used as bridge support; bolt	1258.0
2.6 US 6 EB, 0.5 mi. E. along gravel rd., on SW. corner of crossroads, in power pole; rail spike	1303.96
3.1 US 6 CC, 1.5 mi. E. along gravel rd., on S. side of rd., in center of wood culvert; copper nail and washer	1230.44
3.7 Greenfield, 3.0 mi. S. and 2.5 mi. E. of, 30 ft S. and 355 ft E. of crossroads, near cor. secs. 27, 28, 33 and 34, T. 75 N., R. 31 W., 60 ft NE. of NE. cor. house, 28 ft W. of drive S., in concrete post; standard tablet stamped "TT 5 T 1953"	1315.229
3.7 Reference mark, 320 ft W. of tablet, on SW. corner of intersection, in E. end of 20-in. trial wire; punched hole	1294.95
4.2 US 5 AA, 0.5 mi. E. along gravel rd., on S. side of rd., in center of wooden culvert; copper nail and washer	1237.80
4.6 US 5 BB, 1.0 mi. E. along gravel rd., on NW. corner of crossroads, on W. end of steel culvert; painted square	1236.73
5.2 US 5 CC, 1.6 mi. E. along gravel rd., on N. side of rd., about 3 ft E. of W. end of concrete wingwall; chiseled square	1235.31
5.7 Fabron, 0.2 mi. N. and 4.7 mi. W. of, 51 ft N. and 160 ft E. of crossroads, near cor. secs. 35, 36 and 37, T. 75 N., R. 31 W., 110 ft SE. of SW. cor. school, 3 ft W. of E. school fence, in concrete post; standard tablet stamped "TT 4 T 1953"	1267.867
5.7 Reference mark, 100 ft NW. of tablet, in SW. corner of concrete flagpole base; chiseled square	1266.42

<u>LINE 3 (Cont'd)</u>	<u>Feet</u>
6.3 UE 4 AA, 0.6 mi E. along gravel rd., on N. side of rd., in power pole; rail spike	1301.57
6.6 UE 4 BB, 0.9 mi E. along gravel rd., on SW. cor. of bridge, in bridge piling; copper nail and washer	1204.88
7.1 UE 4 CC, 1.5 mi E. along gravel rd., at T-rd. N., on E. end of steel culvert; painted square	1286.9
7.7 Hebron, 0.2 mi N. and 2.7 mi W. of, 32 ft S. and 215 ft E. of crossroads, near cor. secs. 29, 30, 31 and 32, T. 75 N., R. 30 W., 135 ft NE. of NE. cor. of Grand River District 9 School, 3 ft S. and 3 ft W. of cor. fence post, in concrete post; standard tablet stamped "TT 3 T 1953"	1305.345
7.7 Reference mark, 130 ft NE. of tablet, on N. side of rd., in power pole; rail spike	1303.06
8.3 UE 3 AA, 0.6 mi E. along gravel rd., on N. side of rd., in center of concrete culvert; chiseled square	1254.23
8.6 UE 3 BB, 0.9 mi E. along gravel rd., on W. end of steel culvert on S. side of rd. at private drive S.; painted square	1299.4
9.4 UE 3 CC, 1.7 mi E. along gravel rd., on N. side of rd., in center of concrete culvert; chiseled square	1174.96
9.5 UE 3 DD, 1.8 mi E. along gravel rd., in center on N. bridge curb, about 6-in. above bridge floor; chiseled square	1168.35
10.1 UE 3 EE, 2.4 mi E. along gravel rd., on S. side of rd. at private drive S., in W. end of wooden culvert; copper nail and washer	1253.72
10.4 Hebron, 50 ft N. and 456 ft W. of crossroads at, near center NE $\frac{1}{4}$ sec. 34, T. 75 N., R. 30 W., 110 ft N. of N. entrance of Hebron Methodist Church, 182 ft E. of SE. corner school, 3 ft W. of E. school fence, in concrete post; standard tablet stamped "TT 2 T 1953"	1259.547
10.3 Reference mark, 200 ft NW. of tablet, at front entrance to schoolhouse, in lowest concrete step; chiseled square	1262.62
10.9 UE 2 AA, 0.5 mi E. along gravel rd., in center of S. curb of bridge over Grand River, about 4-in. above bridge floor; 3/4 in. bolt	1155.4
11.4 UE 2 BB, 1.0 mi E. along gravel rd., on N. side of rd., in center of concrete culvert; chiseled square	1198.54
11.8 UE 2 CC, 1.4 mi E. along gravel rd., center of crossroads	1250.5
11.9 UE 2 DD, 1.5 mi E. along gravel rd., on S. side of rd., in center of concrete culvert; chiseled square	1223.16

WINTERSSET QUAD. - 79

12.4 UE 2 EE, 2.0 mi E. along gravel rd., on S. side of rd., in power pole; rail spike	1276.50
12.7 Hebron, 0.2 mi N. and 2.2 mi E. of, 48 ft N. and 400 ft W. of crossroads, near cor. secs. 25, 30, 31 and 36, T. 75 N., R. 29 and 30 W., 21 ft E. of jog in fence, 12 ft E. of field rd. N. and wood gate, 3 ft S. of W. right-of-way fence, in concrete post; standard tablet stamped "TT 1 T 1953"	1235.123
12.7 Reference mark, 40 ft SW. of tablet, in concrete culvert; chiseled square	1233.98

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GREENFIELD QUADRANGLE
80 - IOWA

LINE 4

Feet

WEST THROUGH CENTER OF QUADRANGLE (T. M. Beach, 1953; Book GW 564)

WINTERSET QUAD. - 79

0.3	UE 31 A, 0.3 mi N. along gravel rd., center of T-rd. W.	1232.3
0.9	UE 31 B, 0.3 mi N. and 0.6 mi W. along gravel rd., on N. side of rd., in E. end of concrete culvert; chiseled square	1225.58

GREENFIELD QUAD. - 80

1.3	UE 31 C, 0.3 mi S. and 1.0 mi W. along gravel rd., at NE. cor. of T-rd. E., in concrete culvert; chiseled square	1177.16
1.5	UE 31 D, 0.3 mi S., 1.0 mi W. and 0.2 mi E. along gravel rd., on SW. corner of T-rd. W., at front entrance to Harrison No. 6 Schoolhouse, in concrete step; chiseled square	1234.90
2.4	UE 31 E, 0.3 mi S., 1.0 mi W., 0.4 mi E. and 0.8 mi W. along gravel rd., on N. side of rd., in concrete culvert about 16 ft lower than rd.; chiseled square	1190.09
2.8	Greenfield, 5.0 mi W. and 8.5 mi E. of, near quarter cor. of secs. 15 and 22, T. 76 N., R. 30 W., 24 ft S. and 80 ft E. of intersection of private drive NE., 1 ft N. of fence and 5 ft higher than rd.; set in concrete standard tablet stamped "12 JDF 1953"	1179.878
3.1	Reference mark, 190 ft NW of tablet, on N. side of rd., in concrete culvert; chiseled square	1176.17
3.4	UE 12 A, 0.6 mi W. along gravel rd., on W. side of rd., in concrete culvert; chiseled square	1173.24
4.2	UE 12 B, 1.1 mi W. along gravel rd., on E. side of rd., in E. end of concrete culvert; chiseled square	1120.09
4.5	UE 12 C, 1.4 mi W. along gravel rd., on NW. corner of crossroads, in N. end of concrete culvert; chiseled square	1141.65
4.8	UE 12 D, 1.7 mi W. along gravel rd., at SW. cor. of bridge over Middle River, in bridge piling; copper nail and washer	1131.13
5.6	Greenfield, 5.0 mi N. and 6.0 mi E. of, near cor. secs. 17, 18, 19 and 20, T. 76 N., R. 30 W., 290 ft W. of crossroads, 35 ft S. of center of rd., 1 ft E. of fence line, about level with rd., in NW. cor. of school yard, set in concrete; standard tablet stamped "12 JDF 1953"	1184.416
5.6	Reference mark, about 30 ft W. and 20 ft N. of tablet, on S. side of rd., in E. end of concrete culvert; chiseled square	1185.41
6.2	UE 11 A, 0.6 mi W. along dirt rd., on NW. corner of bridge, in bridge piling; copper nail and washer	1150.06
6.6	UE 11 B, 1.0 mi W. along dirt rd., on SW. corner of crossroads, on W. end of steel culvert; painted square	1267.15
7.3	Greenfield, 5.0 mi N. and 4.0 mi E. of, near cor. secs. 13, 14, 23 and 24, T. 76 N., R. 30 W., 1100 ft E. of T-rd. E., 160 ft E. of T-fence N., 21 ft N. of rd., 1 ft S. of fence, set in concrete; standard tablet stamped "10 JDF 1953"	1221.432
7.4	Reference mark, 690 ft W. of tablet, on S. side of rd., in center of concrete culvert, about 5 ft lower than rd.; chiseled square	1178.68

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GREENFIELD QUADRANGLE
80 - IOWA

<u>LINE 4 (Cont'd)</u>	<u>Feet</u>
8.0 UE 10 A, 0.2 mi W. and 0.5 mi S. sf, along gravel rd., on E. end of steel culvert on E. side of rd.; painted square	1257.5
8.6 UE 10 B, 0.2 mi W. thence 1.0 mi S. and 0.1 mi W. from along gravel rd., on S. side of rd., on S. end of steel culvert; painted square	1253.5
9.1 UE 10 C, 0.2 mi W. thence 1.0 mi S., thence 0.6 mi W. along gravel rd. from, on S. side of rd., in center on S. end of concrete culvert, about 4 ft lower than rd.; chiseled square	1277.76
9.5 UE 10 D, 0.2 mi W. thence 1.0 mi S., thence 1.0 mi W. from, on NW. cor. of T-rd. N., on W. end of a steel culvert; painted square	1305.0
9.9 UE 10 E., 0.2 mi W., thence 1.0 mi S., thence 1.0 mi W., thence 0.3 mi N. from, along gravel rd., on W. side of rd., in center of W. end of concrete culvert; chiseled square	1260.13
10.5 UE 10 F, 0.2 mi W., thence 1.0 mi S., thence 1.0 mi W. and 1.0 mi N. from, on NW. cor. of T-rd. W., on N. end of a cement pipe culvert; chiseled square	1248.84
10.8 UE 10 G, 0.2 mi W., thence 1.0 mi S., thence 1.0 mi W., thence 1.0 mi N. and 0.3 mi W. along dirt rd. from, in center on S. side of bridge; copper nail and washer	1200.39
11.6 Greenfield, 5.0 mi N. and 2.0 mi E. of, near cor. secs. 15, 16, 21 and 22, T. 76 N., R. 31 W., in NW. corner of yard of Greve No. 5 School, 36 ft E. and 200 ft N. of crossroads, 1.5 ft E. of fence corner, 1 ft S. of fence, set in concrete; standard tablet stamped "JDF 1953"	1270.988
11.6 Reference mark, 90 ft S. of tablet, on NW. corner of school swings, in concrete base; chiseled square	1265.09
12.2 UE 9 A, 0.7 mi W. along gravel rd., on N. side of rd. about 6-in. lower than rd., in N. end of concrete pipe culvert; chiseled square	1331.75