

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

THIRD ORDER LEVELS
SEA LEVEL DATUM OF 1929

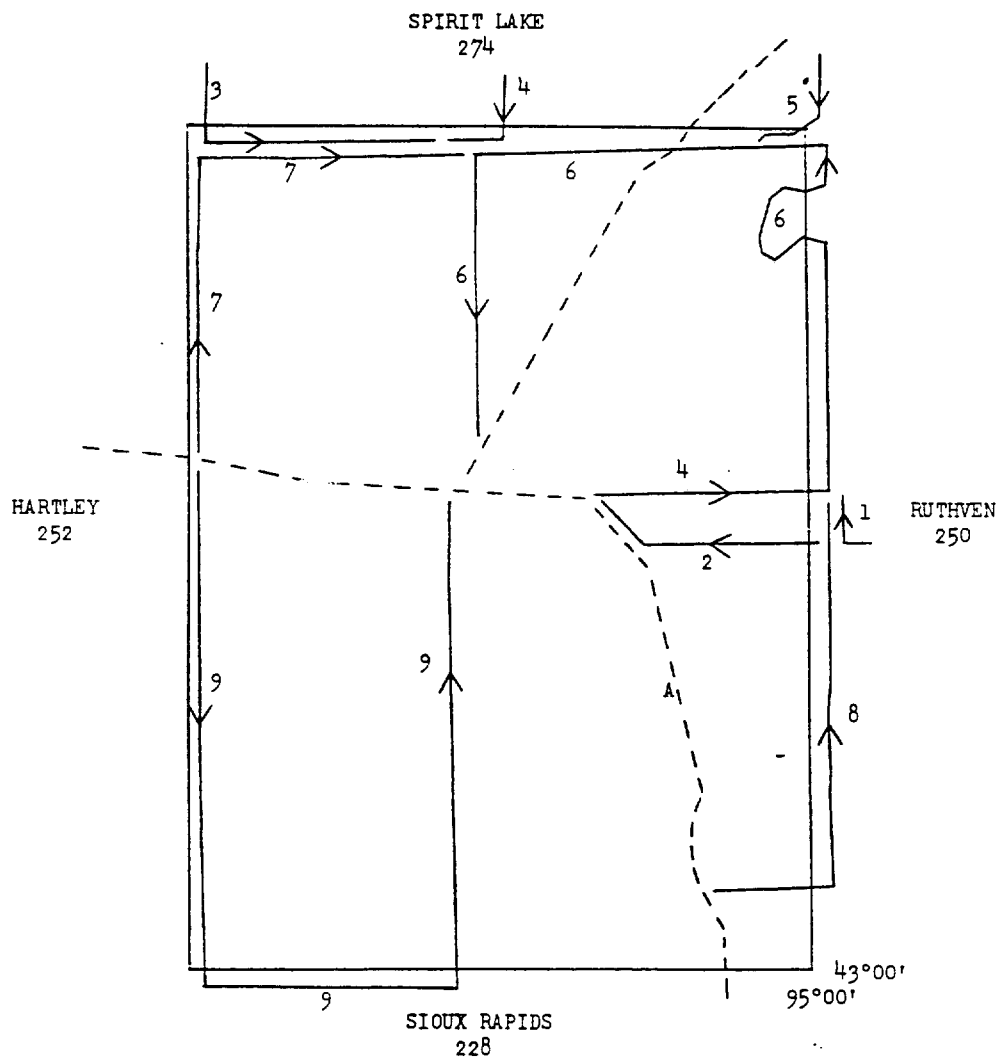
Clay and Spencer Counties

FINAL ADJUSTMENT OF 1970
EXCEPT AS NOTED

Edition of 12-4-70

PR:AKH/as/gh

SPENCER QUADRANGLE
251 - IOWA
N4300-W9500/15
DIAGRAM NK 15-1
FAIRMONT



SC&GS VERTICAL CONTROL DATA
.. Quadrangle 430952

251 A

2
SPENCER QUADRANGLE
251 - IOWA

LINE 1FEET

C. L. Crutchfield, 1970; Book CV 2586

RUTHVEN QUAD. - 250

NOTE: FIELD ELEVATIONS ARE PUBLISHED HERE PENDING RERUNS

2 56	15.3	UE 14 A, 0.5 mi W. along U.S. Hwy. 18 from tablet, center of crossroads; a nail and washer in pavement, painted "UE centerline"	1378.254
57	16.3	UE 14 B, 1.5 mi W. along U.S. Hwy. 18 from tablet, center of crossroads; a nail and washer, painted "UE centerline"	1343.265
58	17.2	UE 14 C, 2.5 mi W. along U.S. Hwy. 18 from tablet, center of crossroads; a nail and washer, painted "UE centerline" (in pavement)	1330.440
59	18.2	Dickens, 0.5 mi N. and 1.0 mi E. of; T. 96 N., R. 35 W., near cor. secs. 8, 9, 16 and 17, 51 ft S. and 10 ft W. and 1.4 ft higher than T-rd. W.; top of W. headwall; standard tablet stamped "1 GWS 1964 1348" embedded in headwall	1348.026

THIS ELEV. 1348.026
PREV. ELEV. 1347.592
CLOSURE +.434

LINE 2

C. L. Crutchfield, 1970; Book CV 2586

RUTHVEN QUAD. - 250

NOTE: FIELD ELEVATIONS ARE PUBLISHED HERE PENDING RERUNS

2 62	0.0	"UE 14 C" (described in Line 1)	1330.440
62	1.0	UE 14 C A, 1.0 mi W. along U.S. Hwy. 18 from "UE 14 C", center of T-rd. S.; a nail and washer	1315.809
65	3.2	Spencer, about 4.0 mi SE. along the Chicago, Milwaukee, St. Paul & Pacific RR. from the station at; 70 ft N. of the center of U.S. Hwy. 18, 52 ft E. of the E. rail of RR. track, 3 ft W. of a power line pole, 2 ft NW. of a metal witness post; a USC&GS standard disk set in the top of a round concrete monument which projects 3 in., stamped "X 21 RESET 1965"	1298.598

THIS ELEV. 1298.598
PREV. ELEV. 1298.429
CLOSURE +.169

LINE 3

D. W. Bennett, 1967; Book CV 2220

SPIRIT LAKE QUAD. - 274

16.2	Milford, 5.0 mi S. and 4.0 mi W. from jet., U. S. Hwy. 71 and Co. Rt. "B" at; Fostoria, 1.0 mi N. and 4.0 mi E. of; 3.0 mi S. of tablet, Tps. 97 and 98 N., R. 37 W., about 0.12 mi N. of cor. secs. 4, 5, 32 and 33, about 1320 ft S. of a steel truss bridge over Little Sioux River, 59 ft W. and 40 ft S. of T-fence E., 48 ft W. of a dirt rd., 75 ft SW. of T-fence E., 2 ft E. of a fence; standard tablet set in concrete post projecting 10 in.; stamped "65 DWB 1967 1371"	1370.842
16.3	Reference mark, 250 ft NE. of mark, top of largest boulder of group of granite boulders; chiseled square	1362.97
16.9	UE 64 A, 0.6 mi S. of tablet, T. 97 N., R. 37 W., near quarter cor. secs. 4 and 5, 21 ft N. and 21 ft E. of T-rd. W.; chiseled square on 30-in. concrete pipe culvert	1405.56

3
SPENCER QUADRANGLE
251 - IOWA

<u>LINE 3(Cont'd)</u>	<u>SPENCER QUAD. - 251</u>	<u>FEET</u>
19.3 Fostoria, 2.0 mi W. of; T. 97 N., R. 37 W., near cor. secs. 2, 3, 10 and 11, 330 ft W. and 29 ft N. of crossroads; a standard tablet embedded in concrete headwall, stamped "7 GJS 1964 RESET 1967 1425"		1425.115
19.4 Reference Mark 2, 330 ft SE. of mark, 33 ft S. and 25 ft W. of crossroads; chiseled square on 24-in. concrete pipe culvert		1429.32
20.4 UE Centerline 7 A, 1.0 mi E. of tablet, near cor. secs. 1, 2, 11 and 12; iron pin at center of crossroads		1434.97
21.4 UE 7 B, 2.0 mi E. of tablet, at Fostoria; center of crossroads; chiseled cross		1442.12

LINE 4

<u>D. W. Bennett, 1967; Book CV 2220</u>	<u>SPIRIT LAKE QUAD. - 274</u>	
14.2 Milford, 4.6 mi S. and 2.0 mi E. of jct. U.S. Hwy. 71 and Co. Rt. "B" at; T. 98 N., R. 36 W., near quarter cor. secs. 32 and 33, 37 ft E. and 16 ft N. of rd. at field entrance E., 6 ft N. of the N. gate post and 5 ft S. of a large fence post; standard tablet set in concrete post; stamped "69 DWB 1967 1441"		1440.797
14.2 Reference mark, 250 ft SW. of mark, at the last cottonwood of a row of trees; rail spike driven vertically in E. root		1441.15

SPENCER QUAD. - 251

15.0 UE 69 A, 0.8 mi S. of tablet, T. 97 N., R. 36 W., near quarter cor. secs. 4 and 5, 15 ft S. and 21 ft E. of drive W.; rail spike in gauged power pole	1445.64
15.5 UE 69 B, 1.3 mi S. of tablet, T. 97 N., R. 36 W., near cor. secs. 4, 5, 8 and 9; head of bolt at center of blacktop rd.	1421.56
16.4 Fostoria, 1.1 mi E. of; 0.2 mi E. of crossroads, cor. secs. 5, 6, 7 and 8; T. 97 N., R. 36 W., 98 ft W. of most westerly of twin 36-in. concrete pipe culverts, 49 ft S. of a blacktop rd., 3 ft W. of a pole, 1.5 ft N. of a fence; standard tablet set in concrete post, stamped "4 GJS 1964 RESET 1967"	1423.633
17.5 UE 7 B, 2.0 mi E. of tablet, at Fostoria; center of crossroads, chiseled cross	1442.12

LINE 5

<u>D. W. Bennett, 1967; Book CV 2220</u>	<u>ESTHERVILLE QUAD. - 273</u>	
11.5 Terrill, 2.5 mi S. of; 1.25 mi W. of, 2.25 mi S. of tablet, T. 98 N., R. 35 W., near cor. secs. 28, 29, 32 and 33, 30 ft S. and 40 ft W. of T-rd. E., 8 ft S. of center gate, 8 ft W. of fence corner, 4 ft NW. of a guy pole, 1 ft N. of fence and witness sign; standard tablet set in concrete post; projecting 6 in., stamped "76 DWB 1967 1393"	1393.041	
12.5 UE 76 A, 1.0 mi S. of tablet, Tps. 97 and 98 N., R. 35 W., near cor. secs. 4, 5, 32 and 33, 25 ft N. and 36 ft E. of crossroads; chiseled square on 36-in. concrete pipe culvert	1395.42	
<u>SPENCER QUAD. - 251</u>		
13.5 Fostoria, about 7.5 mi E. of; near quarter cor. secs. 5 and 8, T. 97 N., R. 35 W., 32 ft N. of center of E.-W. rd., 10 ft E. of center of gate at field entrance N., 2 ft S. of fence line, in concrete post; standard tablet stamped "ET 15 HK 1964 1388"	1387.476	

LINE 6

FEET

G. J. Schloesser, 1964; Book CV 1768

SPENCER QUAD. - 251

- 0.0 Spencer, about 4.0 mi SE. along the Chicago, Milwaukee, St. Paul & Pacific RR. from the station at; 70 ft N. of the center of U.S. Hwy. 18, 52 ft E. of the E. rail of RR. track, 3 ft W. of a powerline pole, 2 ft NW. of a metal witness post, a USC&GS standard disk set in the top of a round concrete monument which projects 3 in., stamped "X 21 RESET 1965" 1298.429
- 1.0 UE 21 A, 1.0 mi E. of tablet, near cor. secs. 13, 14, 23 and 24, T. 96 N., R. 35 W., center of crossroads; square painted 1297.7
- 2.0 UE 21 B, 2.0 mi E. of tablet, near cor. secs. 13, 18, 19 and 24, T. 96 N., R. 35 W., center of crossroads; square painted 1311.9
- 2.5 UE 21 C, 2.0 mi E. and 0.5 mi N. of; near quarter cor. secs. 13 and 18, T. 96 N., R. 35 W., center of T-rd. E.; square painted 1331.4
- 3.7 UE 21 D, 3.0 mi E. and 0.7 mi N. of tablet, near quarter cor. secs. 17 and 18, 27 ft S. and 12 ft W. and 0.5 ft lower than center of bridge over drain, 10.5 ft higher than water, in SW. corner of concrete headwall; square painted 1316.40
- 4.0 Dickens, 0.5 mi N. and 0.5 mi E. of; about 0.25 mi S. of cor. secs. 7, 8, 17 and 18, T. 96 N., R. 35 W., 16 ft S. and 42 ft W. of center of N.-S. rd. at field entrance W., 2 ft E. of right-of-way fence; in concrete post; standard tablet stamped "ET 16 HK 1964 1368" 1368.325
- 4.1 UE 16 HK A, 0.13 mi N. of tablet, near cor. secs. 7, 8, 17 and 18, T. 95 N., R. 35 W., 18 ft S. and 39 ft E. and 1.7 ft lower than T-rd. E.; top of concrete culvert; square painted 1356.34
- RUTHVEN QUAD. - 250
- 5.1 Dickens, 0.5 mi N. and 1.0 mi E. of, T. 96 N., R. 35 W., near cor. secs. 8, 9, 16 and 17, 51 ft S. and 10 ft W. and 1.4 ft higher than T-rd. W., top of W. headwall; standard tablet stamped "1 GJS 1964 1348" embedded in headwall 1347.592
- 5.1 Reference mark, 320 ft N. and 60 ft E. of tablet, top of large granite boulder; square painted 1344.27
- 6.2 UE 1 A, 1.0 mi N. of tablet, near cor. secs. 4, 5, 8 and 9, T. 96 N., R. 35 W., center of T-rd. W. 1362.6
- 7.2 UE 1 B, 2.0 mi N. of tablet, near cor. secs. 4, 5, 32 and 33, 21 ft W. and 28.6 ft S. and 2.5 ft lower than T-rd. W.; top of concrete culvert; square painted 1347.62
- 8.3 UE 1 C, 3.0 mi N. of tablet, near cor. secs. 28, 29, 32 and 33, 31 ft N., 31.5 ft W. and 3.0 ft lower than crossroads; top of concrete culvert; square painted 1340.71
- 9.1 Dickens, 1.5 mi E. and 4.3 mi N. of, T. 96 N., R. 35 W., near cor. between secs. 28, 32, 33 and 39, 79.9 ft E. and 36.9 ft S. and 1.7 ft lower than rd. at drive E.; top of bottom concrete step at front entrance to house; a standard tablet embedded; stamped "2 GJS 1964 1360" 1360.282
- 9.1 Reference Mark, 12 ft S. and 15 ft E. of rd. at drive E.; top of culvert; square 1357.43
- 9.5 UE 2 A, 0.3 mi N. of tablet, near cor. secs. 20, 21, 28 and 29, 33 ft E. and 1.6 ft lower than T-rd. W.; top of concrete base of fence cornerpost; square painted 1358.30
- 10.5 UE 2 B, 1.3 mi N. of tablet, near cor. secs. 16, 17, 20 and 21, T. 97 N., R. 33 W., center of T-rd. S.; square painted 1365.93
- SPENCER QUAD. - 251
- 11.6 UE 2 C, 1.3 mi N. and 1.1 mi W. of tablet, near quarter cor. secs. 19 and 20; center of T-rd. S.; square painted 1364.12

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SPENCER QUADRANGLE
251 - IOWA

<u>LINE 6 (Cont'd)</u>	<u>SPENCER QUAD. - 251</u>	<u>FEET</u>
11.9 UE 2 D, 1.7 mi N. and 1.1 mi W. of tablet, near cor. secs. 17, 18, 19 and 20, center of T-rd. N.; square painted		1381.70
13.1 UE 2 E, 2.9 mi N. and 1.1 mi W. of; near cor. secs. 7, 8, 17 and 18, center of crossroads		1389.0
	<u>RUTHVEN QUAD. - 250</u>	
14.2 UE 2 F, 2.9 mi N. of; near cor. secs. 8, 9, 16 and 17, 6.0 ft higher than water; center of wooden bridge		1363.0
15.1 UE 2 G, 3.9 mi N. of tablet, near cor. secs. 4, 5, 8 and 9, T. 97 N., R. 35 W., 175.3 ft S. and 18.8 ft W. and 3.3 ft lower than crossroads; top of steel culvert; square painted		1374.68
	<u>SPENCER QUAD. - 251</u>	
15.5 Postoria, about 7.5 mi E. of near quarter cor. secs. 5 and 8, T. 97 N., R. 35 W., 32 ft N. of center of E.-W. rd., 10 ft E. of center of gate at field entrance N., 2 ft S. of fence line, in concrete post; standard tablet stamped "ET 15 HK 1964 1388"		1387.476
16.1 UE 15 A, 0.6 mi W. of tablet, near cor. secs. 5, 6, 7 and 8, T. 97 N., R. 36 W.; center of crossroads		1404.2
17.0 UE 15 B, 1.6 mi W. of tablet, near cor. secs. 1, 6, 7 and 12, 19 ft E. and 8 ft N. and 0.2 ft higher than center of bridge over drain, 9.5 ft higher than water; top of concrete headwall; cniseled square		1361.86
18.0 UE 15 C, 2.5 mi W. of tablet, near cor. secs. 1, 2, 11 and 12, 40 ft S. and 33 ft E. and 3.2 ft lower than crossroads; top of concrete culvert; square painted		1390.20
18.0 Postoria, 5.0 mi E. of, T. 97 N., R. 36 W., near cor. secs. 1, 2, 11 and 12, 320 ft S. and 68 ft E. of crossroads, top of SW. corner of concrete step of schoolhouse; a standard tablet embedded, stamped "3 GJS 1964 1399"		1399.190
19.0 UE 3 A, 1.0 mi W. of tablet, near cor. secs. 2, 3, 10 and 11, 43 ft S., 37 ft E. and 3.4 ft lower than crossroads; top of concrete culvert; square painted		1392.07
20.1 UE 3 B, 2.0 mi W. of tablet, near cor. secs. 3, 4, 9 and 10, 38 ft S. and 27 ft E. and 5.6 ft lower than crossroads; top of concrete culvert; square painted		1387.71
21.1 UE 3 C, 3.0 mi W. of tablet, near cor. secs. 4, 5, 8 and 9, 43 ft S. and 27 ft E. and 3.2 ft lower than crossroads; top of concrete culvert; square painted		1417.37
22.0 Postoria, 1.1 mi E. of, 0.2 mi E. of crossroads, cor. secs. 5, 6, 7 and 8, T. 97 N., R. 36 W., 98 ft W. of most westerly of twin 36-in. concrete pipe culverts; 49 ft S. of an asphalt rd., 3 ft W. of a pole, 1.5 ft N. of a fence; standard tablet set in concrete post stamped "4 GJS 1964 RESET 1967"		1423.633
22.2 UE 4 A, 0.1 mi W. of; near cor. secs. 5, 6, 7 and 8, 184 ft E. and 37 ft N. and 3.8 ft lower than crossroads, top of steel culvert; square painted (reported disturbed 9/67 DWB)		1428.18
23.2 UE 4 B, 1.0 mi S. of tablet, near cor. secs. 7, 8, 17 and 18, center of crossroads		1419.1
24.2 UE 4 C, 2.0 mi S. of tablet, near cor. secs. 17, 18, 19 and 20, center of crossroads; square painted		1390.29
25.2 UE 4 D, 3.0 mi S. of tablet, near cor. secs. 19, 20, 29 and 30, T. 97 N., R. 36 W., 36 ft E. and 23 ft N. and 2.6 ft lower than crossroads; top of concrete culvert; square painted		1349.06

6
SPENCER QUADRANGLE
251 - IOWA

<u>LINE 6 (Cont'd)</u>	<u>SPENCER QUAD. - 251</u>	<u>FEET</u>
25.6 Langdon, 2.0 mi W. and 1.3 mi S. of; T. 97 N., R. 36 W., near quarter cor. secs. 29 and 30, at bridge, 4.8 ft higher than bridge, top of W. concrete headwall; a standard tablet embedded; stamped "5 GJS 1964 1342"		1342.070
26.2 UE 5 A, near cor. secs. 29, 30, 31 and 32; center of crossroads		1338.6
27.2 UE 5 B, 1.6 mi S. of tablet, near cor. secs. 5, 6, 31 and 32; center of crossroads		1333.9
27.7 UE 5 C, 1.6 mi S. and 0.5 mi E. of tablet, near quarter cor. secs. 5 and 32; top of W. rail at rd. crossing		1330.4
28.0 Spencer, 1.8 mi NE. along the Minneapolis and St. Louis RR. from station at; 11 poles SW. of MP 195 and a section rd. crossing, 93 ft N. of a whistle post, 42.8 ft NW. of W. rail, and 1.5 ft SE. of a right-of-way fence; a USC&GS standard disk stamped "V 21 1934" and set in top of concrete post projecting 3 in. above ground		1329.837

LINE 7

<u>G. J. Schloesser, 1964; Bock CV 1768</u>	<u>SPENCER QUAD. - 251</u>	
0.0 Spencer, about 4.3 mi W. of along C.M. St. P. & P. RR., 62 ft NE. of rd. crossing, 45.1 ft N. of N. rail, 9 ft E. of right-of-way fence, and 1.3 ft S. of fence; in concrete post; USC&GS standard disk stamped "D 18 1934"		1335.506
0.3 UE 18 A, 0.3 mi N. of tablet, near cor. secs. 4, 5, 8 and 9, center of crossroads		1339.7
1.1 UE 18 B, 1.1 mi N. of tablet, near cor. secs. 4, 5, 32 and 33, T. 96 N., R. 37 W.; center of crossroads		1343.6
2.1 UE 18 C, 1.1 mi N. and 1.0 mi W. of tablet, near cor. secs. 5, 6, 31 and 32, 24 ft E. and 21 ft N. and 0.9 ft lower than T-rd. N.; top of concrete culvert; square painted		1340.48
3.1 UE 18 D, 2.1 mi N. and 1.0 mi W. of; near cor. secs. 29, 30, 31 and 32, center of crossroads; square painted		1353.12
4.1 Postoria, 5.0 mi W. and 3.0 mi S. of, T. 97 N., R. 37 W., near cor. secs. 19, 20, 29 and 30, 24 ft W. and 34 ft N. and 2.4 ft lower than crossroads; a standard tablet embedded in concrete culvert; stamped "6 GJS 1964 1352"		1352.130
4.1 Reference Mark, 50 ft E. of tablet; top of concrete culvert; square painted		1351.32
5.2 UE 6 A, 1.0 mi N. of tablet, near cor. secs. 17, 18, 19 and 20, 192 ft N. and 50 ft W. and 2.4 ft lower than crossroads, top of E. end of sidewalk leading to a school; square painted		1368.72
6.2 UE 6 A, 2.0 mi N. of tablet, near cor. secs. 7, 8, 17 and 18, 42 ft N. and 25 ft W. and 0.5 ft lower than T-rd. S., top of first concrete step at church; square painted		1356.54
6.6 UE 6 C, 2.0 mi N. and 0.4 mi E. of; near quarter cor. secs. 8 and 17, center of bridge over drain and 12 ft higher than water; square painted		1337.43
7.1 UE 6 D, 2.0 mi N. and 1.0 mi E. of; near cor. secs. 8, 9, 16 and 17, 22 ft S. and 26 ft W. and 3.2 ft lower than crossroads; top of concrete culvert; square painted		1352.41
8.2 UE 6 E, 3.0 mi N. and 1.0 mi E. of; near cor. secs. 4, 5, 8 and 9, 28 ft E., 25 ft S. and 4.5 ft lower than crossroads, top of concrete culvert; square		1367.16
0.1 Postoria, 2.0 mi W. of; T. 97 N., R. 37 W., near cor. secs. 2, 3, 10 and 11, 330 ft W. and 27 ft N. of crossroads; a standard tablet embedded in concrete headwall; stamped "7 GJS 1964 1425" (RESET 1966, description same, Co. Engr., Spencer, Iowa 8/66)		1425.115
12.2 UE 7 B, 2.0 mi E. of tablet, at Postoria, center of crossroads; chiseled cross		1442.12

7
SPENCER QUADRANGLE
251 - IOWA

LINE 7 (Cont'd)

SPENCER QUAD. - 251

FEET

13.2 UE 4 A (described in Line 6) 1428.18

LINE 8

G. J. Schloesser, 1964; Book CV 1768

SPENCER QUAD. - 251

0.0 Gillett Grove, at; 160 yards S. of C.M. St. P & P RR. station, 0.3 mi S. of MP 146, 17.7 ft W. of W. rail of main track, 15 ft E. of E. rail of sidetrack, and 7 ft NE. of S. pole between main track and sidetrack; a USC&GS standard disk stamped "B 22 1934" set in top of concrete post projecting 3 in. above ground 1294.774

0.8 UE 22 A, 0.8 mi N. of tablet, near cor. secs. 19, 24, 25 and 30, T. 95 N., R. 35 W., 29 ft W. and 10 ft N. and 2.8 ft lower than T-rd. E., top of concrete culvert; square painted 1399.94

1.7 UE 22 B, 0.8 mi N. and 0.9 mi E. of tablet, near quarter cor. secs. 19 and 30, center of bridge over Elk Creek, 16 ft higher than water; square painted 1308.42

RUTHVEN QUAD. - 250

2.9 UE 22 C, 0.8 mi N. and 2.0 mi E. of tablet, near cor. secs. 20, 21, 28 and 29, 153 ft E. and 37 ft S. and 0.5 ft lower than crossroads, top of concrete culvert; square painted 1407.43

3.9 UE 22 D, 1.8 mi N. and 2.0 mi E. of tablet, near cor. secs. 16, 17, 20 and 21, center of T-rd. S. 1387.5

4.9 UE 22 E, 1.8 mi N. and 3.0 mi E. of tablet; near cor. secs. 15, 16, 21 and 22, 111 ft N. and 53 ft E. and 3.5 ft lower than crossroads; top of concrete step of school; square painted 1438.76

5.7 UE 22 F, 2.6 mi N. and 3.0 mi E. of tablet, near cor. secs. 9, 10, 15 and 16, 30 ft W. and 51 ft S. of bridge, top of concrete culvert; square painted 1323.02

6.3 Gillett Grove, 2.6 mi N. and 2.3 mi E. of, T. 95 N., R. 35 W., near quarter cor. secs. 9 and 16, 22 ft S. of rd. at culvert; top of S. concrete headwall; standard tablet embedded "8 GJS 1964 1317" 1316.723

6.3 Reference mark, 30 ft N. of tablet, top of N. concrete headwall; square painted 1317.02

6.7 UE 8 A, 0.4 mi W. of tablet, near cor. secs. 8, 9, 16 and 17, 44 ft W. and 38 ft N. and 2.6 ft lower than T-rd. N.; top of concrete culvert; square painted 1395.00

7.7 UE 8 B, 0.4 mi W. and 1.0 mi N. of; near cor. secs. 4, 5, 8 and 9, 24 ft E. and 32 ft S. and 2.8 ft lower than crossroads, top of concrete culvert; square painted 1405.44

8.8 UE 8 C, 0.4 mi W. and 2.0 mi N. of tablet, near cor. secs. 4, 5 32 and 33, T. 95 N., R. 35 W.; center of crossroads 1394.9

9.4 Dickens, 2.7 mi S. and 1.0 mi E. of, T. 96 N., R. 35 W., near quarter cor. secs. 32 and 33, 15 ft W. of rd. at small drain, 3.3 ft higher than water; top of W. concrete headwall; a standard tablet embedded; stamped "9 GJS 1964 1369" 1368.847

9.4 Reference Mark, 30 ft E. of tablet, top of E. headwall; square painted 1368.96

9.8 UE 9 A, 0.3 mi N. of tablet, near cor. secs. 28, 29, 32 and 33, 27 ft S. and 2.3 ft W. and 3.1 ft lower than crossroads, top of concrete culvert; square painted 1373.62

10.8 UE 9 B, 1.3 mi N. of tablet, near cor. secs. 20, 21, 28 and 29, T. 96 N., R. 35 W., 152 ft S. and 30 ft W. and 5.0 ft lower than crossroads, top of concrete culvert; square painted 1357.65

<u>LINE 8 (Cont'd)</u>	<u>RUTHVEN QUAD. - 250</u>	<u>FEET</u>
11.8 UE 9 C, 2.3 mi N. of tablet, near cor. secs. 16, 17, 20 and 21; center of crossroads; square painted		1329.8
12.8 "1 GJS 1964" (described in Line 6)		1347.592

LINE 9

<u>G. J. Schloesser, 1964; Book CV 1768</u>	<u>SPENCER QUAD. - 251</u>	
0.0 USC&GS "D 18 1934" (described in Line 6)		1335.506
0.7 UE 18 A, 0.7 mi S. of tablet, near cor. secs. 8, 9, 16 and 17, center of T-rd. N.; square painted		1334.25
1.7 UE 18 B, 0.7 mi S. and 1.0 mi W. of tablet, near cor. secs. 7, 8, 17 and 18, T. 96 N., R. 37 W., center of bridge over Ocheyedan River, 16 ft higher than water; square painted		1337.44
2.7 UE 18 C, 1.7 mi S. and 1.0 mi W. of tablet, near cor. secs. 17, 18, 19 and 20, center of crossroads		1386.31
3.6 Royal, 1.5 mi E. and 3.1 mi N. of, T. 96 N., R. 37 W., 0.1 mi N. of cor. secs. 19, 20, 29 and 30, 15 ft E. of rd., top of E. concrete abutment of concrete culvert; a standard tablet embedded, stamped "10 GJS 1964 1371"		1370.585
3.7 UE 10 A, 0.1 mi S. of tablet, near cor. secs. 19, 20, 29 and 30, T. 96 N., R. 37 W., 30 ft W., 24 ft N. and 3.2 ft lower than crossroads, top of concrete culvert; square painted		1377.70
4.7 UE 10 B, 1.1 mi S. of tablet, near cor. secs. 29, 30, 31 and 32, 21 ft W. and 30 ft N. and 3.7 ft lower than crossroads, top of steel culvert; square painted		1389.5
5.7 UE 10 C, 2.1 mi S. of tablet, near cor. secs. 5, 6, 31 and 32, T. 95 N., R. 37 W., 44 ft E. and 22 ft N. and 3.2 ft lower than crossroads, top of concrete culvert; square painted		1393.55
6.5 Royal, 1.5 mi E. and 0.2 mi N. of, T. 95 N., R. 37 W., 0.2 mi N. of cor. secs. 5, 6, 7 and 8, 15 ft E. and 0.2 mi N. of crossroads, top of E. concrete headwall over culvert; a standard tablet embedded, stamped "11 GJS 1964 1389"		1388.721
6.7 UE 11 A, 0.2 mi S. of tablet, near cor. secs. 5, 6, 7 and 8, center of crossroads; square painted		1400.8
7.8 UE 11 B, 1.2 mi S. of, near cor. secs. 7, 8, 17 and 18, T. 95 N., R. 37 W., 28 ft S. and 23 ft W. and 1.9 ft lower than crossroads, top of concrete culvert; square painted		1397.57
8.8 Royal, 1.5 mi E. and 2.0 mi S. of, T. 95 N., R. 37 W., near cor. secs. 17, 18, 19 and 20, 21 ft E. and 24 ft S. and 2.7 ft lower than crossroads; a standard tablet embedded in a concrete culvert; stamped "12 GJS 1964 1400"		1399.905
8.8 Reference Mark, 50 ft N. of tablet, top of concrete culvert; square painted		1400.67
9.8 UE 12 A, 1.0 mi S. of tablet, near cor. secs. 19, 20, 29 and 30, center of crossroads		1405.5
10.8 UE 12 B, T. 95 N., R. 37 W., 2.0 mi S. of tablet, near cor. secs. 29, 30, 31 and 32, center of crossroads; square painted		1389.2

LINE 8 (Cont'd)

SPENCER QUAD. - 251

FEET

11.7 UE 12 C, 3.0 mi S. of tablet, near cor. secs. 31, 32, 5 and 6, T. 95 N., R. 37 W., 28 ft N. and 39 ft E. and 2.1 ft lower than crossroads, top of concrete culvert; square painted 1381.10

SIoux RAPIDS QUAD. - 228

11.9 Royal, 5.2 mi S. and 1.5 mi E. of, near W $\frac{1}{4}$ cor. between secs. 5 and 32, Tps. 94 and 95 N., R. 37 W., 32 ft S. and 7 ft W. of E.-W. rd. at field entrance S., 2 ft N. of fence, in concrete post; standard tablet stamped "ET 19 HK 1964 1388" 1388.265

12.8 UE 19 A, 0.8 mi E. of tablet, near cor. secs. 4, 5, 32 and 33, Tps. 94 and 95 N., R. 37 W., center of bridge over Willow Creek, and 12 ft higher than water; square painted 1336.48

13.8 UE 19 B, 0.8 mi E. and 1.0 mi N. of tablet, near cor. secs. 28, 29, 32 and 33, center of crossroads; square painted 1369.4

14.8 UE 19 C, 1.8 mi E. and 1.0 mi N. of tablet, near cor. secs. 27, 28, 33 and 34, Tps. 94 and 95 N., R. 37 W., center of crossroads; square painted 1401.1

15.8 UE 19 D, 1.8 mi E. of tablet, near cor. secs. 3, 4, 33 and 34, center of T-rd. E. 1374.8

16.8 UE 19 E, 2.8 mi E. of tablet, near cor. secs. 2, 3, 34 and 35, Tps. 94 and 95 N., R. 37 W., 39 ft S., 19 ft W. and 2.9 ft lower than crossroads; top of concrete culvert; square painted 1391.74

18.1 Rossie, about 1.0 mi S. and 1.0 mi E. of, about 1000 ft W. of Hwy. 71 at quarter cor. between secs. 1 and 36, Tps. 94 and 95 N., R. 37 W., 30 ft N. of center of E.-W. rd. and 2 ft S. of fence line, in concrete post; standard tablet stamped "ET 18 HK 1964 1392" 1392.069

18.2 UE 18 A, 0.1 mi E. of tablet, near quarter cor. secs. 1 and 36, Tps. 94 and 95 N., R. 37 W., center of crossroads; square painted 1384.48

19.2 UE 18 B, 1.1 mi E. of tablet, near quarter cor. secs. 6 and 31, Tps. 94 and 95 N., R. 36 W., 26 ft N., 33 ft E. and 2.0 ft lower than crossroads, top of concrete culvert; square painted 1383.71

SPENCER QUAD. - 251

20.2 UE 18 C, 1.1 mi E. and 1.0 mi N. of tablet, near quarter cor. secs. 30 and 31, center of crossroads; square painted 1397.89

21.2 UE 18 D, 1.1 mi E. and 2.0 mi N. of; near quarter cor. secs. 19 and 30, T. 95 N., Rs. 36 and 37 W., 36 ft E. and 21 ft S. and 1.7 ft lower than crossroads, top of concrete culvert; chiseled square painted 1401.61

22.2 UE 18 E, 1.1 mi E. and 3.0 mi N. of tablet, near quarter cor. secs. 18 and 19, center of crossroads 1403.3

22.4 Greenville, 1.5 mi N. of; T. 95 N., Rs. 36 and 37 W., near quarter cor. secs. 18 and 19, 1030 ft N. and 10 ft E. of crossroads, top of E. concrete headwall; a standard tablet embedded, stamped "13 GJS 1964 1400" 1399.911

22.4 Reference mark, 20 ft W. of tablet, top of W. concrete headwall; square 1399.77

23.2 UE 13 A, 0.8 mi N. of tablet, near quarter cor. secs. 7 and 18, 38 ft E. and 21 ft S., 2.1 ft lower than crossroads, top of concrete culvert; square painted 1394.15

LINE 8 (Cont'd)

	<u>SPENCER QUAD. - 251</u>	<u>FEET</u>
24.2	UE 13 B, 1.8 mi N. of tablet, near cor. secs. 6 and 7, center of crossroads	1380.5
25.2	Spencer, 4.0 mi S. of, Tps. 95 and 96 N., Rs. 36 and 37 W., near quarter cor. secs. 6 and 31, 13 ft S. and 11 ft E. and 6 ft higher than water, on SE. corner of headwall over bridge, embedded; a standard tablet stamped "14 GJS 1964 1335"	1335.225
26.2	UE 14 A, 1.0 mi N. of tablet, near quarter cor. secs. 30 and 31, 42 ft E. and 22 ft S. and 2.4 ft lower than crossroads, top of concrete culvert; square painted	1361.70
27.3	UE 14 B, 2.0 mi N. of tablet, near quarter cor. secs. 19 and 30, T. 95 N., Rs. 36 and 37 W., center of crossroads	1355.3
28.3	UE 14 C, 3.0 mi N. of tablet, near quarter cor. secs. 18 and 19, center of crossroads; square painted	1312.8
29.7	Spencer, at; 65 yards NE. of NE corner of C.M. St. P. & P.R.R. station, in park of the municipal light plant, 166.9 ft N. of N. rail of N. side track, 135 ft W. of SW. corner of power plant, 104.1 ft N. of N. rail of main track, 27.3 ft E. of E. edge of sidewalk; a USC&GS standard disk stamped "G 18 1934", set in top of concrete post level with ground (also 76.8 ft E. of center of main track)	1315.795