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THIRD ORDER LEVELS
SEA LEVEL DATUM OF 1929

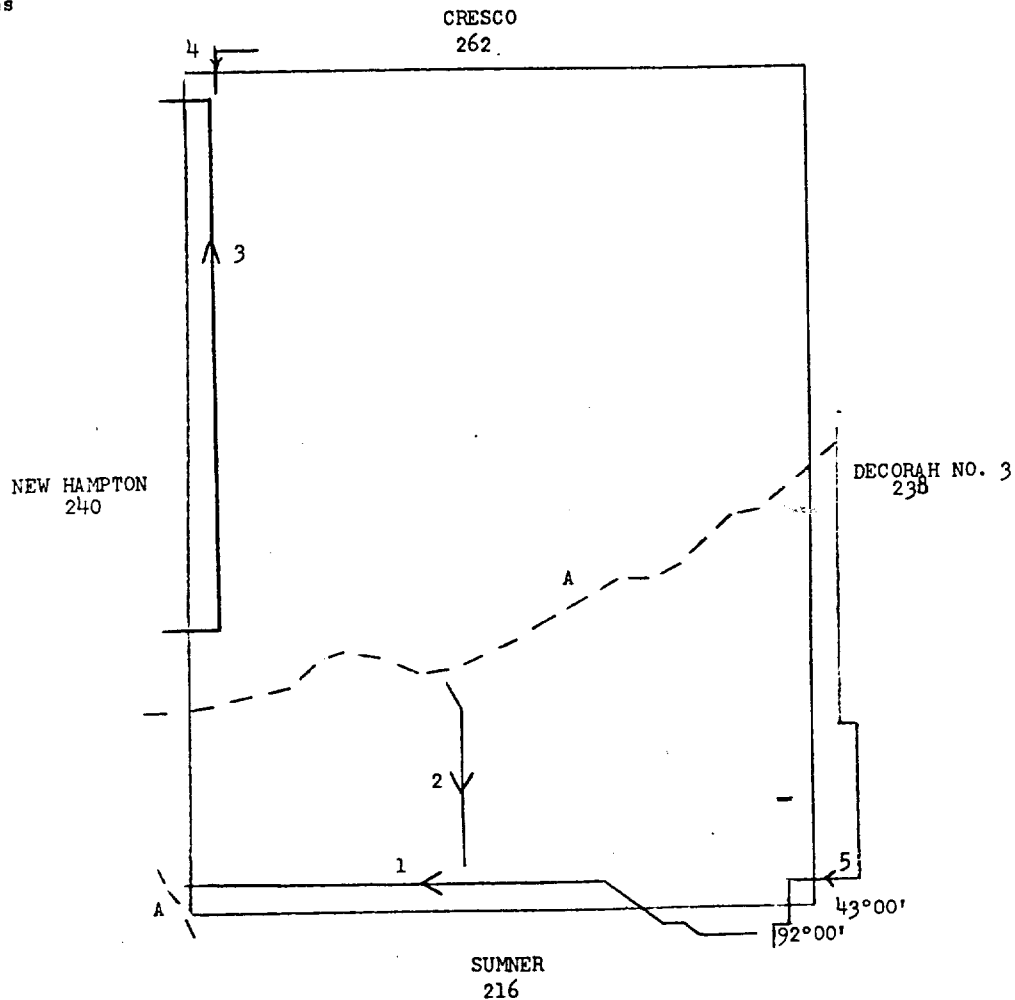
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

43-092-22
LAWLER QUADRANGLE
239 - IOWA
N4300-W9200/15
DIAGRAM NK 15-2
MASON CITY

Edition of:- 3-1-78

PR: AKH/gh/cb

Winneshiek, Fayette,
Chickasaw and Howard
Counties



N.G.S. (USC&GS) VERTICAL CONTROL DATA
A. Quadrangle 430922

239 B

LINE 1

FEET

C. L. Crutchfield, 1969; Book CV 2490

SUMNER QUAD. - 216

- | | | | | |
|----|------|------|--|----------|
| 2 | 64 | 15.9 | UE 55 C, 0.25 mi W. of the center of secs. 32 and 33, T.95 N., R. 10 W., center of T-rd. S.; a RR. spike, painted "UE 55 C" | 1092.14 |
| 65 | 16.9 | | Alpha, 0.5 mi' N. and 1.5 mi W. of, 0.25 mi W. of the center secs. 31 and 32, T. 95 N., R. 10 W., 11 ft N. and 68 ft W. and 3.1 ft lower than center of bridge over Cane Creek, in the center on top of the N. pier; a standard tablet stamped "56 CLC 1969" | 1036.781 |
| 66 | 16.9 | | Reference mark, 22 ft S. and 72 ft W. and 2.5 ft higher than tablet, top of the SW. wingwall of a concrete bridge over Cane Creek; a chiseled square, painted "BM" | 1039.26 |

LAWLER QUAD. - 239

- | | | | | |
|----|------|------|---|----------|
| 67 | 18.2 | 18.2 | UE 56 A, 1.3 mi WNW. along a co. rd. from tablet, 10 ft N. and 1.0 ft lower than center of E.-W. rd. at a drain crossing, in the center of the N. headwall of a concrete box culvert; a chiseled square, painted "UE 56 A" | 1055.36 |
| 68 | 18.8 | | UE 56 B, 1.9 mi WNW. along a co. rd. from tablet, 85 ft S. and 101 ft W. and 0.4 ft higher than T-rds. in the center of the first door step of a school house; a chiseled square, painted "UE 56 B" | 1068.24 |
| 69 | 19.8 | | Fredericksburg, 3.0 mi N. and 4.0 mi E. of, near cor. secs. 26, 27, 34 and 35, T. 95 N., R. 11 W., 35 ft S. and 37 ft E. and 2.3 ft lower than crossroads, top of a concrete slab used as a corner post, set flush with the ground; a standard tablet stamped "57 CLC 1969" | 1087.031 |
| 70 | 19.8 | | Reference mark, 65 ft N. and 2 ft W. and 0.1 ft higher than tablet, top of a concrete slab used as a corner fence post support flush with the ground; a chiseled square, painted "RM" | 1087.10 |
| 71 | 20.8 | | UE 57 A, 1.0 mi W. along a co. rd. from tablet, center of crossroads; a RR. spike, painted "UE 57 A" | 1173.73 |
| 72 | 22.0 | | UE 57 B, 2.2 mi W. along a co. rd. from tablet, 11 ft S. and 15 ft W. and 1.9 ft lower than center of wooden bridge over E.-W. co. rd., top of the SW. bridge support; a copper nail and washer, painted "UE 57 B" | 1125.72 |
| 73 | 22.9 | | UE 57 C, 3.0 mi W. along a co. rd. from tablet, 35 ft N. and 28 ft W. and 0.8 ft lower than T-rd. N., top of a large rock; a chiseled square, painted "UE 57 C" | 1201.02 |
| 74 | 23.6 | | Boyd, 0.3 mi S. and 3.5 mi E. of, 0.2 mi S. of center secs. 30 and 31, T. 95 N., R. 11 W., 1003 ft S. and 17 ft W. of crossroads, 17 ft W. and 1.8 ft lower than center of N.-S. rd. at a small drain crossing, top of the W. end of the most southern concrete tile culvert; a standard tablet stamped "58 CLC 1969" | 1113.808 |
| 75 | 23.6 | | Reference mark, 11 ft N. and 35 ft E. and 0.3 ft higher than tablet, top of the E. end of the most northern concrete tile culvert; a chiseled square, painted "RM" | 1114.13 |
| 76 | 24.9 | | UE 58 A, near center secs. 25 and 36, T. 95 N., R. 12 W., 12 ft S. and 88 ft W. and 1.1 ft higher than center of bridge over a large drain, top of the SW. wheelguard; a chiseled square, painted "UE 58 A" | 1090.88 |
| 77 | 25.6 | | UE 58 B, near center secs. 26 and 35, T. 95 N., R. 12 W., center of T-rd. S., a RR. spike, painted "UE 58 B" | 1135.49 |

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LAWLER QUADRANGLE
239 - IOWA

<u>LINE 1 (Cont'd)</u>		<u>SUNNER QUAD. - 216</u>	<u>FEET</u>
2	78 26.1	UE 58 C, near cor. secs. 26, 27, 34 and 35, T. 95 N., R. 12 W., center of T-rd. N.; a RR. spike, painted "UE 58 C"	1138.05
	79 27.2	Boyd, 0.5 mi SE. along the C. & GW. RR. from the station at; 0.1 mi SE. of milepost 150, 411 ft SE. of the crossing of a rd., 42.6 ft NE. of the NE. rail, 7 ft E. of a pole, and 4.6 ft SW. of the right-of-way fence; a USC&GS standard disk stamped "S38 1934" and set in the top of a concrete post projecting about 2 in. above ground	1120.191

LINE 2

<u>C. L. Crutchfield, 1969; Book CV 2490</u>		<u>LAWLER QUAD. - 239</u>	
3	12 0.0	At Lawler, on the Chicago, Milwaukee, St. Paul & Pacific RR., 3 blocks W. of the station, 30 ft E. of the center of a street crossing, 33.7 ft N. of the N. rail of the main track, and 18.4 ft N. of the N. rail of the N. sidetrack; USC&GS standard disk stamped "E 37 1934" and set in the top of a concrete post projecting 6 in. above ground	1090.611
	12 0.5	UE E A, At Lawler, at the jct. of State Hwy. 24 and Co. Rte. "C", 50 ft NW. and 31 ft W. and 1.9 ft lower than crossroads, top of an orange RR. rail; State Hwy. Commission plug, painted "UE E A"	1084.64
	13 1.7	UE E B, near cor. secs. 9, 10, 15 and 16, T. 95 N., R. 11 W., 71 ft S. and 31 ft W. and 5.5 ft lower than crossroads, top of the W. end of a concrete tile culvert; a chiseled square, painted "UE E B"	1137.91
	14 2.7	UE E C, near cor. secs. 15, 16, 21 and 22, T. 95 N., R. 11 W., 24 ft S. and 35 ft E. and 2.7 ft lower than crossroads, top of the S. end of a concrete tile culvert; a chiseled square, painted "UE E C"	1158.79
	15 3.7	UE E D, near cor. secs. 21, 22, 27 and 28, T. 95 N., R. 11 W., 13 ft S. and 32 ft W. and 1.0 ft lower than T-rd. W.; top of the S. end of a concrete tile culvert; a chiseled square, painted "UE E D"	1098.29
	16 4.7	UE 57 A (described in Line 1)	1173.73

LINE 3

<u>C.D. Lien, 1972; Book CV-2914</u>		<u>NEW HAMPTON QUAD. - 240</u>	
1	12 3.8	UE 12 A, 0.8 mi E. along road from tablet, 34 ft S., 36 ft E. of; and 3.4 ft lower than centerline of road at T-rd. N., a RR. spike in a power pole	1163.72
		<u>LAWLER QUAD. - 239</u>	
	16 4.8	UE 12 B, 1.8 mi E. along road from tablet, at sec. cors. 2, 3, 34 and 35, T. 95 and 96 N., R. 12 W., 31 ft N., 33 ft W. of and 3.1 ft lower than centerline of road at T-rd. N., a chiseled square on a concrete culvert	1172.12
	19 5.8	Reference mark, 31.8 ft S., 26.7 ft W. of centerline of road at T-rd. E. and 61 ft S. 24.6 ft E. of tablet, a punched hole in a metal culvert	1195.80
	20 5.8	New Hampton, at the junctions of U.S. Hwys. 18 and 63, 2.0 mi N., 4.0 mi E. of; T. 96 N., R. 12 W., sec. cors. 26, 27, 34 and 35, 31.5 ft N., 48 ft W. of; and 3.1 ft lower than centerline of road at T-rd. E., 3.3 ft E. of a right-of-way fence and witness sign, and 2.3 ft SW. of a power pole, set on top of a 0.5 in. copper coated steel rod driven to the depth of 10 ft and encircled by a 6-in. tile set flush with ground, a standard tablet stamped "13 CDL 1972"	1194.900

LAWLER QUAD. - 239

FEET

- 6.8 UE 13 A, 1.0 mi N. along road from tablet, 50 ft N. and 46 ft W. of and ft lower than crossroads, a RR. spike in a power pole 1265.02
- 26 7.9 UE 13 B, 2.0 mi N. along road from tablet sec. cors. 14, 15, 22 and 23, 30.5 ft N., 36 ft E. of and 0.3 ft lower than crossroads, 2.6 ft SE. of a fence corner, a chiseled square on a rock 1220.15
- 9.1 New Hampton, at the junctions of U.S. Hwy. 18 and 63, 5.0 mi N., 4.0 mi E. of; T. 96 N., R. 12 W., near sec. cors. 10, 11, 14 and 15, 0.2 mi W. of crossroads, 17.6 ft S. of and 2.6 ft lower than centerline of road over drain and 17.6 ft S., 68 ft E. of centerline of road at fence N. set in the center of the S. headwall of a concrete box culvert; a standard tablet stamped "14 CDL 1972" 1152.852
- 31 9.1 Reference mark, 32 ft S., 41.4 ft W. of tablet, 49.6 ft S., 41.4 ft W. of centerline of road over drain and 1.0 ft N. of a right-of-way fence, a chiseled square on a rock 1150.20
- 35 10.3 UE 14 A, 1.0 mi N., 0.2 mi E. of tablet sec. cors. 2, 3, 10 and 11, 20 ft N., 35.4 ft E. of and 3.2 ft lower than centerline of road at T-rd. E., a punched hole in a metal culvert 1123.47
- 38 11.2 UE 14 B, 2.0 mi N., 0.2 mi E. along road from tablet, 51.4 ft S., 45 ft W. of; and 1.9 ft lower than centerline of road at T-rd. E., a RR. spike in a power pole 1178.70
- 42 11.3 New Hampton at the junctions of U.S. Hwys. 18 and 63, T. 97 N., R. 12 W., sec. cors. 26, 27, 34 and 35, 62.3 ft S., 62.3 ft E. of and 1.4 ft lower than crossroads, 5.0 ft E. of power pole and witness sign, set on top of a 0.5-in. copper coated steel rod driven to the depth of 10 ft and encircled by a 6-in. tile set flush with ground, a standard tablet stamped "15 CDL 1972" 1185.926
- 43 11.3 Reference mark, 61 ft S., 59.5 ft W. of crossroads and 121.8 ft W. of tablet, a RR. spike in a power pole 1186.24
- 46 13.3 UE 15 A, 1.0 mi N. along road from tablet, 34 ft S., 49 ft W. of and 3.5 ft lower than crossroads, a RR. spike in a power pole 1211.11
- 49 14.3 UE 15 B, 2.0 mi N. along road from tablet, sec. cor. 14, 15, 22 and 23, 30.2 ft S., 29.5 ft W. of; and 3.4 ft lower than crossroads, a chiseled square on a concrete culvert 1215.43
- 52 15.2 BM 16 New Hampton, at the junctions of U.S. Hwy. 18 and 63, T. 97 N., R. 12 W., near sec. cors. 10, 11, 14 and 15, 10.7 ft W. of; and 0.3 ft lower than centerline of road over drain and 712 ft S. and 10.3 ft W. of crossroads, set in the center of the W. headwall of a concrete box culvert, a standard tablet stamped "16 CDL 1972" 1194.406
- 53 15.6 Reference mark, 345 ft N., 4.7 ft W. of tablet, 367 ft S., 15.4 ft W. of crossroads and 15 ft W. of centerline of road at drain, a punched hole in a 48-in. metal culvert, the most northern one of two 48-in. culverts 1194.59
- 57 16.3 UE 16 A, 1.0 mi N. along road from tablet, 34 ft S., 90 ft W. of; and 2.1 ft lower than centerline of road at T-rd. W., a RR. spike in a power pole also used as a corner fence post 1207.17
- 60 17.3 UE 16 B, 1.0 mi N. and 1.0 mi W. along road from tablet, secs. cors. 3, 4, 9 and 10, 54.5 ft S., 36.5 ft W. of; and 0.6 ft lower than crossroads, 14 ft SE. of a fence corner and 9.5 ft NW. of a power pole, a chiseled square on a rock 1269.50

NEW HAMPTON QUAD. - 240

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NEW HAMPTON QUAD. - 240

FEET

- 18.3 BM, cross mark, 11 ft S. centerline of road over drain and 21 ft S., 571 ft E. of
table; chiseled square on the W. end of the S. headwall of a concrete box culvert 1199.15
- 65-10.4 BM, New Hampton, 12.0 mi N. and 2.0 mi E. from the junction of U.S. Highways 18 and
63 at about 302 ft W. of cor. secs. 4, 5, 8 and 9, T. 97 N., R. 12 W., 50 ft N.
of centerline of rd.; in concrete post; standard tablet stamped
"18.3 1972 RESET 1973" 1198.817

LINE 4

R. Blaser, 1977; Book CV-3384

CRESO QUAD. - 262

- 1 49-13.1 BM, Cresco, 8 mi S. and 5 mi W. of; 3.2 mi S. of Schley, Iowa, Ts. 97 and 98 N., R. 12
W., near the cor. of secs. 1, 2, 35 and 36, 34 ft S., 149 ft W. and 1.5 ft higher than
crossroads, 34 ft S. and 24 ft E. of road at drive to power substation, 7 ft N. and 25 ft
E. of metal gate to substation, 3.3 ft E. of power pole No. H12, 2.5 ft S. of USGS witness
sign and S. right-of-way fence, standard tablet on copper coated steel rods centered in
6-in. diameter tile filled with gravel and stamped "5 ROD 1977" set flush with ground 1218.973
- 51 14.1 UE 5 A, 1 mi W. along road from tablet, Ts. 97 and 98 N., R. 12 W., near the cor. of secs.
2, 3, 34 and 35, 27 ft N. and 26 ft W. and 2.8 ft lower than I-rd. S., on W. end of 2 ft
concrete culvert; chiseled square 1241.88

LAWLER QUAD. - 239

- 54 15.0 UE 16 A, 1 mi N. along road from tablet; 16 CDL 1972; 34 ft S., 90 ft W. and 2.1 ft lower
than I-rd. W., a R.R. spike in a power pole also used as a corner fence post 1207.12
- 59 16.2 BM, New Hampton, at the jcts. of U.S. Hwys. 18 and 63, 10 mi S. and 6 mi W. of Cresco,
Iowa, T. 97 N., R. 12 W., near cor. of secs. 10, 11, 14 and 16, 10.7 ft W. of; and 0.3 ft
lower than road at drain, 712 ft S. and 10.3 ft W. of crossroads set in corner of the W.
headwall of a concrete box culvert, standard tablet stamped "16 CDL 1972" 1194.406

LINE 5

R. Blaser, 1977; Book CV-3384

DECORAH NO. 3 QUAD. - 238

- 2 0.0 UE 9 B, 1.1 mi S. of tablet; T. 96 N., R. 10 W., near the N. sixteenth cor. between secs.
11 and 12, 24 ft S., and 55 ft E. and 1.1 ft lower than I-rd. E., on S. end of 4 ft steel
corrugated culvert; copper nail and washer 1120.540
- 4 0.8 UE 9 B 1, 2 mi S. along road from tablet; T. 96 N., R. 10 W., near the cor. of secs. 11,
12, 13 and 14, 300 ft S., 23.5 ft E. and 9.5 ft lower than I-rd. W., 10 ft N. and 23.5 ft
E. of road at drive E., on N. end of 1.5 ft steel corrugated steel culvert; copper nail
and washer 1096.07

LINE 5 (Cont'd)

DECORAH NO. 3 QUAD. - 238

FEET

- | | | | |
|----|-----|--|----------|
| 7 | 1.3 | BM, Fort Atkinson, 1 mi S. and 2.5 mi W. of; about 500 ft N. and about 800 ft E. of the quarter cor. between secs. 13 and 14, T. 96 N., R. 10 W., about 740 ft NE. along R.R. from road at R.R., 35 ft SW. along R.R. and 9.5 ft NW. pwerpendicular to R.R. from the center of R.R. bridge, 67 ft R.R. bridge, 1 ft below center of R.R. bridge on top of SW. end of NW. side of bridge, in concrete bridge foundation standard tablet stamped "12 ROD 1977" | 1060.020 |
| 10 | 2.1 | UE 12 A, 0.5 mi S. along road from tablet; T. 96 N., R. 10 W. near the cor. of secs. 13, 14, 23 and 24, 37 ft S., 50 ft W. and 5.2 ft lower than crossroads, on S. end of 2.5 ft concrete culvert, chiseled square | 1127.29 |
| 14 | 3.1 | UE 12 B, 1.5 mi S. along road from tablet; T. 96 N., R. 10 W., near the cor. of secs. 23, 24, 25 and 26, 22 ft S., 26 ft E. and 1.9 ft lower than T-rd. E. on S. end of 3 ft steel corrugated culvert; copper nail and washer | 1090.66 |
| 17 | 4.1 | UE 12 C, 2.5 mi S. along road from tablet; T. 96 N., R. 10 W. near the cor. of secs. 25, 26, 35 and 36, 17 ft S., 28 ft W. and 1.4 ft lower than road at drive W. on S. end of 2 ft steel corrugated culvert; copper nail and washer | 1144.14 |
| 19 | 4.5 | Reference mark, 680 ft N. of tablet; 750 ft N., 19 ft W. and 0.8 ft higher than road at fence E. on W. end of 2.5 ft steel corrugated culvert; copper nail and washer | 1152.12 |
| 20 | 4.7 | BM, Fort Atkinson, 4 mi S. and 2.5 mi W. of; T. 96 N., R. 10 W. near the quarter cor. between secs. 35 and 36, 66 ft N., 12 ft E. and 2.5 ft higher than road at fence E., 7 ft N. and 12 ft E. of road at drain, 2 ft SW. of top of NE. end of E. headwall of concrete box culvert; standard tablet stamped "13 ROD 1977" | 1153.787 |
| 23 | 5.2 | UE 13 A, 0.5 mi S. along road from tablet, Ts. 95 and 96 N., R. 10 W., near the cor. of secs. 1, 2, 35 and 36, 22 ft S., 26 ft E. and 2.1 ft lower than crossroads, on S. end of 3 ft concrete culvert; chiseled square | 1147.18 |
| 27 | 7.2 | Reference mark, 309 ft N. of tablet; 402 ft N., 18 ft E. and 4.4 ft lower than T-rd. N. on E. end of 1.5 ft concrete culvert; chiseled square | 1126.00 |
| 28 | 7.3 | BM, Fort Atkinson, 6.5 mi S. and 2.5 mi W. of, T. 95 N., R. 10 W. near the cor. of secs. 11, 12, 13 and 14, 93 ft N., 32 ft E. and 3.5 ft lower than T-rd. N., 60 ft N. and 1 ft W. of fence corner, 1 ft S. and 1 ft W. of power pole, 1 ft W. of USGS witness sign and E. right-of-way fence, standard tablet on copper coated steel rods centered in 6-in. diameter tile filled with gravel stamped "14 ROD 1977" set flush with ground | 1127.082 |
| 32 | 8.1 | UE 14 A, 0.25 mi E. along road and 0.6 mi S. along road from tablet, T. 95 N., R. 10 W., about 310 ft S. of the center of the W $\frac{1}{2}$ of sec. 13, 310 ft S., 18 ft W. and 12.2 ft lower than road at E.-W. fence, on W. end of 2.5 ft steel corrugated steel culvert, copper nail and washer | 1097.63 |

LINE 5 (Cont'd)

DECORAH No. 3 QUAD. - 238

FEET

- 3 35 9.1 UE 14 B, 0.25 mi E. along road and 1.5 mi S. along road from tablet, T. 95 N., R. 10 W., near the center of the NW $\frac{1}{4}$ of secs. 24, 31 ft S., 19 ft W. and 6.4 ft lower than crossroads, on W. end of 1.5 ft steel corrugated culvert; copper nail and washer 1053.95
- 38 9.8 BM, Fort Atkinson, 8.5 mi S. and 2.25 mi W. of; T. 95 N., R. 10 W., about 600 ft N. of the center of the NW $\frac{1}{4}$ of sec. 25, 65 ft S., 12 ft W. and 2.6 ft higher than the center of a 134 ft bridge, on top of SW. bridge railing support, standard tablet stamped "15 ROD 1977" 1015.343
- 39 9.8 Reference mark, 241 ft S. of tablet; 306 ft S., 28 ft W. and 4.3 ft higher than center of bridge, 12 ft N. and 28 ft W. of road at field entrance W. on N. end of 1.5 ft steel corrugated culvert copper nail and washer 1017.06
- 43 10.7 UE 15 A, 0.9 mi S. along road from tablet, T. 95 N., R. 10 W., near the W. sixteenth cor. between secs. 25 and 36, 32 ft N., 29 ft W., and 4.8 ft lower than T-rd. N. on N. end of 2 ft concrete culvert; chiseled square 1077.98
- 45 11.5 UE 15 B, 0.9 mi S. along road and 0.8 mi W. along road from tablet, T. 95 N., R. 10 W., about 400 ft W. of the quarter cor. between secs. 26 and 35, 26 ft S. and 12 ft E., 1.9 ft lower than road at drive S. on E. end of 1 ft steel corrugated culvert, copper nail and washer 1122.08

LAWLER QUAD. - 239

- 48 12.2 Reference mark, 149 ft ESE. of tablet, 41 ft S., 123 ft E. and 3.7 ft lower than road at drain, 0.3 ft above ground, on N. side of a power pole; a R.R. spike 1064.16
- 49 12.2 BM, Fort Atkinson, 9.5 mi S. and 3.75 mi W. of; T. 95 N., R. 10 W., near the E. sixteenth cor. between secs. 27 and 34, 20 ft N., 13 ft W. and 1.3 ft lower than road at drain, 1 ft SE. of NW. end of 5.7 ft round concrete culvert, standard tablet stamped "16 ROD 1977" 1066.555

SUMNER QUAD. - 216

- 54 13.1 UE 16 A, 0.25 mi W. along road and 0.6 mi S. along road from tablet, T. 95 N., R. 10 W., about 600 ft S. and about 200 ft E. of the center of sec. 34, about 310 ft SE. along road grade and 8 ft SW. to R.R. grade from road at R.R. grade, 69 ft NW. along R.R. bridge and 8 ft SW. to R.R. bridge from center of R.R. bridge, 0.8 ft below bridge on top of NW. end of SW. side of concrete foundation of bridge, chiseled square 1023.34
- 60 14.6 BM, Alpha, 0.5 mi S., 1 mi E. of, near center of secs. 3 and 4, T. 94 N., R. 10 W., 10 ft S. and 37 ft E. of T-rd. E. in the center of a headwall of a concrete box culvert, standard tablet stamped "55 CLC 1969" 1045.391