

THIRD-ORDER LEVELING  
SEA LEVEL DATUM OF 1929

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

37-088-21  
CAVE IN ROCK QUADRANGLE  
107 KY. - 6 ILL.  
N3715-8800/15  
DIAGRAM N.J. 16-7  
PADUCAH

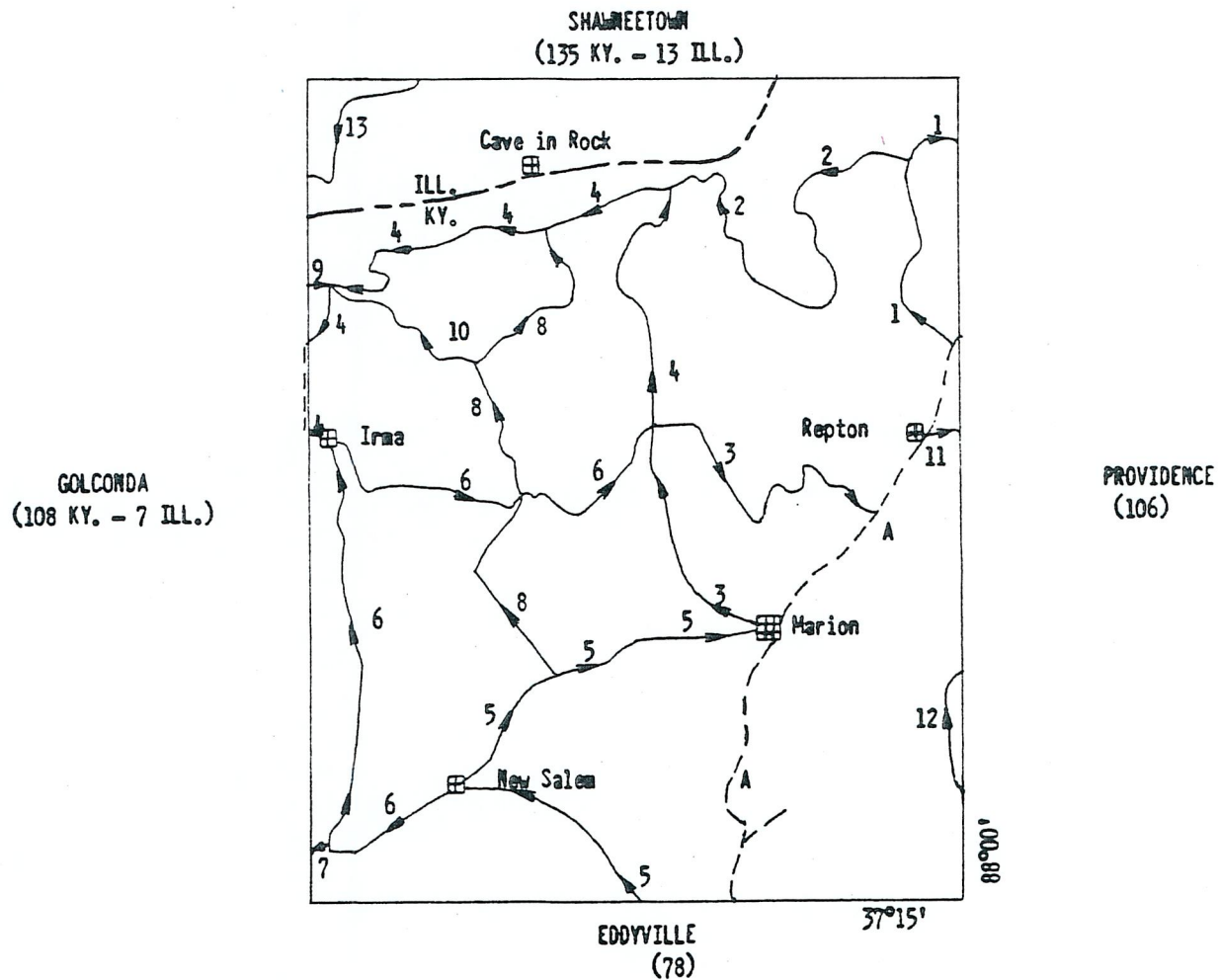
Hardin County, Ill.  
Crittenden & Livingston Counties, KY.

Final adjustment of 1962

Edition of 3/21/74

PR: LFB/mjh

Only the permanent marks  
are listed for lines  
run more than 25 years  
before edition date



NGS (USC&GS) VERTICAL CONTROL DATA

A. Quadrangle 370882

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ISOLATED BENCH MARKS (By W. H. Moahan, 1908; Books A7429 and A7430; R. G. Clinico, 1914, Book A9361; F. L. Whaley, 1916, Book A9731; M. S. Senseney, 1926, Book B2516)	Feet
Hood, 300 ft W. of N. switch stand; 30.5 ft W. of W. rail at post marked "JE 66-52"; in ledge of limestone rock; standard tablet stamped "444"	443.920
Repton, 50 ft E. of center of rd. crossing; 15 ft S. of E.-W. rd.; 3 ft S. of fence corner; 2 ft W. of fenceline; on iron post; standard cap "482"	482.238
Cave-in-Rock, 2.2 mi N. of; about 500 ft E. of SW. corner, section 1 T. 12 S., R 9 E., 450 ft E. of Love School; in limestone ledge; standard tablet stamped "483" (Reported not found, 1957)	482.900
Marion, in yard of Jack Baker; in sandstone wall on inside of fenceline; 1 ft from fence corner; standard tablet stamped "594"	593.903
Marion, 2.9 mi S. of; 300 ft N. of bridge "JE 77-38"; 90 ft E. of track; in top of stone protruding from ground; standard tablet stamped "642" (Tied by MGS, 1949)	641.508
Crayne, in SW. corner stone of general store kept by M. J. Bishop; opposite station; standard tablet stamped "643" (Destroyed)	642.750
Sheridan, 2.7 mi W. of; 900 ft N. of Sulingers school; at T-rd. W.; on E. side of N.-S. rd.; on iron post standard cap stamped "PRIM TRAV STA NO 2 1915 KY 499" (Reported not found, 1954)	498.487
Sheridan, in yard of Mrs. W. H. Gibbs; at W. corner near store; on iron post; standard cap stamped "528 1916"	527.834
Marion, 5.0 mi W. of; at junction of rds. to Salem, Sheridan, and Fredonia; in SW. corner; top of bench; on iron post; standard cap stamped "KY 489 1916" (Reported not found, 1954)	489.213
Salem, 5.2 mi E. of; at E. side of rd. forks; 200 ft N. of covered bridge over Clay Lick Creek; 850 ft E. of Emus Church; on iron post; standard cap stamped "346 1916 KY"	345.761
Salem, 2.9 mi E. of; 30 ft W. of S. L. Shelby's store at T-rd. E.; W. side of rd.; 150 ft SW. of Shelby Cove; on iron post standard cap stamped "373 1916" (Reported not found, 1954)	372.327

LINE 1.

By W. L. Wallace, 1953; Book AV 2020

0.00 "D 139 1949" (MGS) 453.395



LINE 1 (Cont'd.)Feet

0.88	U. E., on centerline of rd. (US Hwy. 60) at junction of Kentucky State Highway 385; chiseled square	474.78
1.40	U. E., 14 ft S. of, and 1 ft lower than the centerline of drain crossing; on S. abutment of concrete culvert; chiseled square	514.15
1.66	Junction U. S. 60 and State Highway 385; 0.76 mi W. of along Highway 385; 12 ft SW. of, and level with centerline of T-rd. W. at centerline of curve N.; in NW. abutment of concrete culvert; standard tablet stamped "1 WLW 1952"	544.459
1.66	Reference mark; 84 ft NE. of tablet; 67 ft N. and 14 ft E. of centerline of T-rd.; in root on S. side of 20-in. oak tree; copper nail and washer	548.51
2.88	Junction of U. S. 60 and State Highway 385; 2.0 mi N. of along Hwy. 385 to driveway of Baker Church; 75 ft S. and 20 ft W. centerline of, and 3 ft lower than centerline of drive; in W. abutment of concrete culvert; standard tablet stamped "2 WLW 1952"	465.253
2.88	Reference mark; 66 ft S. and 88 ft W. of tablet; 141 ft S. and 108 ft W. of centerline of drive; in root on E. side of oak tree; copper nail and washer	464.71
3.44	U. E., 12 ft W. of, and 3 ft lower than centerline of rd. at drain crossing; at about center of long slope; on W. abutment of concrete culvert; chiseled square	612.27
4.33	Junction U. S. 60 and State Highway 385, 3.5 mi N. of along Highway 385 to T-rd. W. (The Weston Road); 15 ft N. and 12 ft W. of, and 2.5 ft lower than the centerline of the T., in the W. abutment of a concrete culvert; standard tablet stamped "3 WLW 1952"	658.290
4.33	Reference mark, 57 ft N. and 50 ft W. of tablet; 72 ft N. and 62 ft W. of centerline of T-rd.; in root on SE. side of oak tree; copper nail and washer	664.20
5.28	U. E., 12 ft N. and 14 ft E. of, and 4 ft lower than centerline of T-rd. E.; on E. wingwall of concrete culvert; chiseled square	565.19
6.48	Junction U. S. 60 and State Highway 385, 5.0 mi N. along Highway 385, thence 0.6 mi E. along farm rd. leading to old Smallwood Ford, thence 2.7 mi E. along farm rd.; 1 ft S. and 1 ft W. of S. corner of old building at summit; 18 ft N. of centerline of rd.; 9 ft N. of fence; in concrete post projecting 6 in. above ground; standard tablet stamped "4 WLW 1952"	603.117
6.48	Reference mark, 29 ft S. and 52 ft W. of tablet; in root on NE. side of tree; copper nail and washer	604.24

LINE 2.

By W. L. Wallace, 1953; Book AV 2020

0.00	"3 WLW 1952" (Described in line 1)	658.290
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LINE 2 (Cont'd.)Feet

1.83	U. E., Junction U. S. 60 and State Highway 385, 3.5 mi N. of, along Highway 385 to I-rd. W., thence 1.1 mi W. along county rd. to I-rd. E., thence 0.2 mi N. and 0.5 mi W. along county rd. to drain crossing at base of hill at centerline of curve; 8 ft N. and 15 ft below centerline of rd. at drain crossing; on N. concrete tile, chiseled square	447.36
2.16	Junction U. S. 60 and Kentucky State Highway 385, 3.5 mi N. of along Highway 385 to I-rd. W., thence 2.2 mi W. along county rd. to centerline sharp curve in long slope; 0.5 mi S. of Weston along Mattoon-Weston Rd. to I-rd. E., thence 0.4 mi E. along county rd.; about 0.2 mi SE. of large boulder on N. side of rd.; about 500 ft NW. of old rd. fork at summit; 12 ft NE. of, and level with centerline of rd.; in limestone outcrop; standard tablet stamped "6 MLW 1953"	522.933
2.16	Reference mark; 70 ft SE. of tablet, 3 ft below tablet; 55 ft S. of, and 3 ft lower than centerline of rd.; in N. side of oak tree; copper nail and washer	524.07
2.65	U. E., Weston, 0.5 mi S. of, along Mattoon-Weston Rd. to I-rd. E.; on centerline of 8 ft wooden bridge; chiseled square	349.13
3.21	U. E., Weston, 1.1 mi S. of, along Mattoon-Weston Rd. to drain crossing; 15 ft S. of, and 1 ft higher than centerline of rd.; on sandstone rock; chiseled square	373.47
4.01	Weston, 2.0 mi S. of, along Mattoon-Weston Rd. to junction with Baker Church Rd.; at Camp Creek Fork; 90 ft N. and 110 ft E. of, and 7 ft higher than centerline of junction; in sandstone ledge; standard tablet stamped "7 MLW 1953"	353.972
4.01	Reference mark, 34 ft SW. of tablet; 70 ft S. and 80 ft E. of centerline of junction; in root on N. side of tree; copper nail and washer	357.48
4.64	U. E., Weston, 2.5 mi S. of, along Mattoon-Weston Rd. to rd. fork; 12 ft N. and 12 ft W. of, and level with centerline of rd. fork; on N. end of concrete tile; chiseled square	378.37
5.08	U. E., Weston, 2.5 mi S. of, along Mattoon-Weston Rd. to rd. fork, thence 0.5 mi SW. along dirt farm rd. to drain crossing by farmhouse; 15 ft S. and 2 ft E. of, and 2.5 ft higher than centerline of drain crossing; on large sandstone boulder; chiseled square	408.50
5.58	U. E., Weston, 2.5 mi S. of, along Mattoon-Weston Rd. to rd. fork, thence 1.0 mi SW. along dirt farm rd. to rd. fork and drain crossing; 40 ft NE. of, and level with centerline of rd. fork; 8 ft NW. of centerline of rd.; on NW. abutment of concrete culvert; chiseled square	462.66
6.28	Weston, 2.5 mi S. of, along Mattoon-Weston Rd. to rd. fork, thence 1.0 mi SW. along dirt farm rd. to rd. fork, thence 0.7 mi NW. along dirt farm rd. to I-drive W.; 0.5 mi S. of U. S. Dam 50 along state rd., thence 0.2 mi W. along state rd., to I-rd. S., thence 1.1 mi S. along county rd., thence 0.7 mi E. along county rd. to I-rd. SE., thence 0.9 mi S. along dirt farm rd. to I-drive W.; 120 ft NW. of, and 2 ft higher than centerline of drive; 100 ft N. of wire fence; 50 ft E. of picket fence; in concrete post 4 in. above surface; standard tablet stamped "8 MLW 1953"	465.116

LINE 2 (Cont'd.)Feet

6.28	Reference mark, 50 ft E. of tablet; 70 ft NW. of, and 3 ft higher than centerline I-rd.; in root on E. side of tree; copper nail and washer	458.31
6.78	U. E., Dam 50, 0.5 mi S. and 0.2 mi W. of, along state rd. to a I-rd. S., thence 1.1 mi S. and 0.7 mi E. along county rd. to I-rd. S., thence 0.4 mi S. along dirt farm rd. to I-rd. W.; 8 ft S. and 8 ft W. of, and 0.75 ft higher than centerline of I-rd.; on sandstone outcrop; chiseled square	526.38
8.23	Dam 50, 0.5 mi S. of, and 0.2 mi W. along state rd. to I-rd. S., thence 0.8 mi S. along county rd. to drive W.; 60 ft N. and 18 ft W. of, and 2 ft higher than centerline of drive; in concrete post projecting 4 in.; standard tablet stamped "94W 1953"	688.996
8.23	Reference mark; 40 ft S. and 20 ft N. of tablet; 18 ft W. of, and 4.5 ft higher than centerline of driveway W.; in root on E. side of oak tree; copper nail and washer	690.38
9.75	Weston, Kentucky, 1.0 mi below; on left bank of Ohio River; on reservation of Lock and Dam No. 50; concreted in upstream end of second step (from bottom) at riverside of powerhouse; USED standard disk designated "BM 502"	356.245

LINE 3.

By H. Sprieger, 1953; Book AV 2026

0.23	"V 138 1949" (NGS)	590.189
0.33	Marion, at Crittenden County Courthouse; 57.1 ft NE. of NE. corner of courthouse; 56 ft S. and 48 ft W. of intersection of S. Main and Bellville Street; 12 ft S. of Illinois Central RR. monument; in concrete post flush with ground; standard tablet stamped "PTS NO 1 1915 RESET 1953"	593.476
0.33	Reference mark, on sidewalk on NW. corner of courthouse square; chiseled square	589.74
1.08	U. E., Marion, 1.08 mi NW. of, along State Highway 91; on center of E. curb of bridge over Crooked Creek; chiseled square	532.36
1.55	U. E., on W. headwall of concrete culvert; chiseled square	563.01
1.98	U. E., on center of E. headwall of concrete bridge; chiseled square	521.37
2.29	Marion, 2.29 mi NW. of, along State Highway 91; about 900 ft SE. of Freedom School; on W. side of rd. opposite house; in concrete post; standard tablet stamped "TT 1 IG 1953 570"	570.230
2.29	Reference mark, 158 ft NW. of tablet; on concrete culvert headwall on E. side rd.; chiseled square	565.74
3.09	U. E., on E. headwall of concrete culvert; chiseled square	539.43
3.67	U. E., on center of W. headwall of concrete culvert; chiseled square	459.85



LINE 3 (Cont'd.)Feet

4.30	Marion, 4.3 mi N. of Crittenden County Court House, along State Highway 91; 92 ft S. of drive to house NW.; 90 ft N. of drive to house E.; 6 ft higher and 26 ft W. of centerline of rd.; 2 ft N. and 2 ft E. of fence line; in concrete post flush with ground; standard tablet stamped "TI 2 IG 1953 455"	454.312
4.30	Reference mark, 89.5 ft N. of tablet; on limestone rock outcrop on E. side of rd.; chiseled square	448.01
4.91	U. E., on center of W. headwall of concrete culvert; chiseled square	471.26
5.26	U. E., on center of E. headwall of concrete culvert; chiseled square	456.58
5.79	Crittenden County Courthouse 5.9 mi N. of, along State Highway 91 at Forest Grove School; 6 ft N. and 8 ft E. of NW. corner of school building; in concrete step; standard tablet stamped "TI 3 IG 1953 515"	514.730
6.79	Marion, 5.79 mi NW. of, along State Highway 91 to Forest Grove School, thence 1.0 mi N. and E. along county rd.; 40 ft S. of centerline of rd.; 3 ft W. of drive to farmhouse; in concrete post; standard tablet stamped "1 HXS 1953 559"	558.790
6.79	Reference mark, 65 ft S. of tablet on W. side of drive; in root of 30 in. red oak tree; copper nail and washer	558.94
7.80	U. E., in sandstone rock in old rd. bed 30 ft S. of centerline of rd.; chiseled square	652.22
8.65	Marion, 5.79 mi NW. of, along State Highway 91, thence E. along county rd.; 12 ft N. of centerline of rd.; 100 ft E. of T-rd. N.; in concrete in sandstone; standard tablet stamped "2 HXS 1953 525"	524.872
8.65	Reference mark, 49 ft NE. of tablet; 40 ft N. of centerline of rd.; in sandstone; chiseled square	528.38
9.53	U. E., 15 ft W. of centerline rd.; 15 ft S. of drive of farmhouse; on sandstone rock; chiseled square	535.51
9.92	U. E., about 60 ft E. of "Y" in county rds.; on sandstone rock; chiseled square	541.84
10.56	Marion, 5.79 mi NW. of, along State Highway 91, thence 4.13 mi E. along county rd., thence N. 0.64 mi on county rd.; 26 ft NE. of T-rd.; in concrete post; standard tablet stamped "3 HXS 1953 535"	535.487
10.56	Reference mark; 35.6 ft S. of tablet; 31 ft E. of centerline of T-rd. junction; in root of red oak tree; copper nail and washer	533.30
10.97	U. E., in 2x3 ft sandstone rock 15 ft E. centerline rd. and 65 ft S. of "Y" fork in farm rds.; chiseled square	632.41



LINE 3 (Cont'd.)Feet

11.31	U. E., 10 ft E. of centerline of rd. at abandoned farmhouse; on sandstone rock; chiseled square	632.46
11.68	U. E., on sandstone rock (at drive to farmhouse); chiseled square	622.55
12.27	Marion, 5.79 mi NW. of, along State Highway 91, thence 4.13 mi E. along county rd., thence 0.64 mi N. along county rd., thence 1.7 mi E. along farm rd.; 18 ft W. and 13 ft S. of farm rd. and fence crossing; in concrete in sandstone; standard tablet stamped "4 HXS 1953 614"	613.532
12.27	Reference mark, 18 ft S. of tablet; on sandstone; chiseled square	611.81
12.53	U. E., 35 ft S. of the SE. corner of farm yard; on sandstone; chiseled square	583.26
13.03	U. E., 30 ft E. centerline rd.; 40 ft N. of Crooked Creek ford and about 10 ft above stream bed; on limestone outcrop; chiseled square	460.08
13.53	U. E., 0.5 ft N. of centerline of U. S. Highway 60 at T-rd. N.; chiseled square	533.04
13.58	Marion, 3.4 mi NE. of station, along Illinois Central RR.; 52 ft W. of center of rd. crossing; 49 ft NW. of NW. rail; 40 ft SE. of centerline of U. S. Highway 60; at fence; 3 ft higher than the track; on iron pipe; standard cap stamped "526 RESET" (Reported disturbed, 1954) (Tied by NGS, 1949)	536.577
14.12	"A 139 1949" (NGS)	543.158

LINE 4.

By H. Springer, 1953; Book AV 2026

0.00	"TT 3 IG 1953 515" (Described in line 3)	514.730
0.40	U. E., on center of the E. headwall of concrete culvert; chiseled square	477.71
0.95	U. E., on centerline of hwy. at drive E. and summit; chiseled square	616.89
1.65	U. E., on E. headwall of concrete culvert; chiseled square	564.57
2.17	U. E., about 10 ft lower than centerline of the hwy.; on E. headwall of concrete culvert; chiseled square	476.94
2.60	Marion, 8.6 mi N. of Crittenden County Courthouse, along State Highway 91; 80 ft S. and 18 ft E. of SW. corner of Shaffer store; in line with fence and 97 ft NW. of fence corner; 1 ft higher and 38 ft E. of centerline of hwy., in concrete post flush with ground; standard tablet stamped "TT 4 IG 1953"	480.440
2.60	Reference mark, 4 ft SE. of tablet on the E. headwall of concrete culvert 124; chiseled square	473.71
4.23	U. E., on the E. end of concrete culvert; chiseled square	349.39

LINE 4 (Cont'd.)Feet

4.24	Marion, 8.9 mi N. of Crittenden County Courthouse; along State Highway 91, thence right and NE. 0.5 mi along graveled rd. to "Y" fork, thence left and NE. 0.9 mi to "Y" fork; 9 ft S. and 17 ft W. of, and 1 ft higher than intersection at "Y" fork; 1 ft E. of wire fence; in concrete post; standard tablet stamped "TT 5 IG 1953 356"	355.317
4.24	Reference mark, 94 ft N. of tablet in root of oak tree; copper nail and washer	358.80
5.30	U. E., 40 ft E. of centerline of rd. at bottom of drain; sandstone rock; chiseled square	467.96
5.75	Marion, 8.9 mi N. of Crittenden County Courthouse, along State Highway 91, thence right and NE. and 0.5 mi along county rd. to "Y" fork, thence left and NE. 0.9 mi to "Y" fork, thence right for 1.6 mi to Fords Ferry; 97 ft N. and 19 ft W. of NW. corner of old store building; on iron post projecting about 12 in. above ground; standard tablet stamped "PRIM TRAV STA NO 8 1915"	367.059
5.75	Reference mark, 112 ft E. of tablet; 20 ft S. of centerline of rd. in 24 in. elm tree, copper nail and washer	366.51
6.08	U. E., 200 ft S. river bank at 40 ft W. creek in corner of field; on sandstone rock; chiseled square	341.78
6.17	U. E., B. L. Station 0; on rock bluff at old navigation marker, USED chiseled triangle	351.91
6.96	"BM 502" (USED) (Described in line 2)	356.245
0.00	"PRIM TRAV STA NO 8 1915" (Described previously)	367.059
2.16	Fords Ferry, 2.0 mi SW. of; about 800 ft from top of left bank of Ohio River; opposite Cave-in-Rock Island; 8 ft below Hainsworth-Doltry property line fence; on ridge; 105 ft S. of eastern tip of a strip of timber on edge of bank dropping towards the river, on 2-in. pipe in a 4x4 in. concrete pedestal; USED cap designated "BM 1259"	350.684
2.16	Reference mark, 102 ft N. of tablet; in root of 16-in. hackberry tree on the E. point of timber at top of bank; copper nail and washer	349.77
3.30	U. E., about 0.5 mi S. of Cave-in-Rock Ferry, on center of bridge on State Highway 91; chiseled square	342.29
4.10	Marion, 11.7 mi N. of Crittenden County Courthouse, along State Highway 91; 0.7 mi W. of wooden bridge over slough; in concrete post; standard tablet stamped "TT 6 IG 1953"	342.409
4.10	Reference mark, 30 ft SE. of tablet in a 8 in. hackberry tree root; copper nail and washer	341.96



LINE 4 (Cont'd.)Feet

6.60	Marion, 10.7 mi N. of Crittenden County Courthouse, along State Highway 91, thence 5.9 mi W. along State Highway 387; 0.5 mi E. of post office at Tolu, thence 2.3 mi N. through J. I. Wright's farmyard to junction of T-rd., thence 0.9 mi N. and NE. along farm lane to tractor shed; 1 ft S. and 4 ft E. of southernmost (largest of two pecan trees); in concrete post; standard tablet stamped "TT 7 IG 1953"	342.326
6.60	Reference mark, 80 ft N. of tablet in 20-in. pecan tree; copper nail and washer	342.29
8.78	Tolu, 450 ft W. of post office; 11 ft N. and 42 ft E. of intersection of main rd. and T-rd. S.; in concrete sidewalk; standard tablet stamped "TT 8 IG 1953 373"	373.315
8.78	Reference mark, 65 ft E. of the tablet; in yard curb at NW. corner of yard and SE. corner of T-rd. S.; chiseled square	374.40
0.00	"TT 8 IG 1953 373" (Described previously)	373.315
0.36	U. E., on center of hwy. at drive E. and end of black top; chiseled square	387.41
0.86	U. E., on center of E. headwall of a concrete culvert; chiseled square	416.60

[Jogs into Golconda quadrangle]

4.02	Irma; 700 ft SE. along State Highway 297 from Sullenger's store; 29 ft S. and 32 ft W. of, and 3 ft higher than junction of highway and county rd.; 1 ft N. and 3 ft W. of fence corner; in concrete post; a standard tablet stamped "13 JR 1953 489 TT"	489.314
4.02	Reference mark, 60 ft NE. of tablet on E. end of culvert at T-rd. N.; chiseled cross	485.76

LINE 5.

By J. J. Recktenwald, 1953; Book AV 2022

4.2	U. E., 1.2 mi NW. along rd. to New Salem from B.M. 404; 0.5 mi NW. of Whitehall School House (abandoned); 45 ft N. of house standing on S. side of rd.; 15 ft N. and 21 ft E. of, and level with T-jct. of rds.; 10 ft S. and 21 ft E. of small wooden bridge; 1 ft S. of 20-in. elm tree; on rock; chiseled square;	434.21
4.9	Mexico, 4.2 mi NW. of schoolhouse, along rd. to New Salem; 3.0 mi SE. along dirt rd. from New Salem; on right bank of Claylick Creek; 10 ft S. and 65 ft W. of ford; 20 ft S. of SE. corner of large field; 15 ft N. and 2 ft higher than centerline of rd.; in concrete post; standard tablet stamped "2 JR 1953"	366.841
4.9	Reference mark, 71 ft W. of tablet; 15 ft N. of rd.; in notch on N. side of 28-in. sycamore tree; copper nail and washer	366.74
6.4	New Salem, 1.5 mi E. of Presbyterian Church, along rd. to Mexico; 5.7 mi NW. of Mexico; at bottom of hollow; 21 ft S. of, and 4 ft higher than centerline of rd. crossing small creek; at top of small ridge; in concrete post; a standard tablet stamped "3 JR 1953 623"	622.628



LINE 5 (Cont'd.)feet

6.4	Reference mark; 25 ft E. of tablet; 3 ft E. of small creek; 16 ft S. of rd.; in crotch of ash tree; copper nail and washer	621.11
7.3	U. E., New Salem Presbyterian Church; 0.5 mi E. of, along county rd. to Mexico; in centerline of bridge over Dry Creek; copper nail and washer	432.59
7.9	New Salem; 9 ft S. and 78 ft E. of SE. corner of Presbyterian Church; 40 ft N. and 75 ft E. of, and 1 ft lower than Y-jct. of hwy. and county rd.; in NE. corner of parking lot; in concrete post; standard tablet stamped "4 JR 1953 431 II"	431.189
7.9	Reference mark, 92 ft W. of tablet; on church steps; on bottom step; chiseled square	431.66
8.4	U. E., New Salem, 0.5 mi NE. of, along U. S. Highway 60; 24 ft N. and 58 ft E. of I-jct. of hwy. and driveway N. to white house; 13 ft N. of, and 2 ft lower than centerline of hwy.; 9 ft S. and 8 ft E. of fence corner; in stone culvert; on top of N. headwall; chiseled square	448.32
8.9	New Salem, 1.0 mi NE. of Presbyterian Church along U. S. Highway 60; 26 ft N. and 22 ft W. of, and 1 ft lower than I-jct. of hwy. and rd. SE.; 45 ft N. of drain; 1 ft E. of fence line; in rock outcrop; standard tablet stamped "5 JR 1953 529 II"	529.066
8.9	Reference mark, 18 ft W. and 9 ft N. of tablet; on SE. corner; of large boulder; chiseled square	525.53
9.5	U. E., 0.6 mi N. along U. S. Highway 60 from 5 JR; 375 ft N. of the Midway Service Station; 39 ft N. and 15 ft E. of, and 2 ft lower than I-jct. of hwy. and rd. W. to Union Baptist Church; on stone culvert; on centerline of E. headwall; bottom of chiseled square	534.82
9.9	U. E., 1.0 mi NE. along U. S. Highway 60 from 5 JR; 550 ft N. of a Standard Service Station; about 400 ft W. of old mine; at bottom of dip in hwy.; 13 ft E. of, and level with centerline of hwy.; on stone culvert; on centerline of E. headwall; chiseled square	515.55
10.5	U. E., 1.6 mi NE. along U. S. Highway 60 from 5 JR; 150 ft N. of stock pond; 135 ft E. of drain; 27 ft S. and 60 ft W. of, and 1 ft lower than I-jct. of hwy. and driveway to large house and barn; 1 ft N. of fence line; in concrete mineral marker post; top of 3/8 in. steel rod	506.00
11.2	New Salem, 3.3 mi NE. of Presbyterian Church, along U. S. Highway 60; 4.7 mi SW. along U. S. Highway 60 from Marion; 25 ft S. and 40 ft E. of, and level with westernmost junction of Highway 60 and county rd. S.; 1 ft N. and 14 ft E. of fence corner; in concrete post; a standard tablet stamped "6 JR 1953 474 II"	473.740
11.2	Reference mark, 150 ft N. and 69 ft E. of tablet; on concrete culvert at bend in headwall; chiseled square	473.93
11.7	U. E., 0.5 mi NE. along U. S. Highway 60 from 6 JR; 30 ft S. and 35 ft W. of I-jct. of hwy. and driveway SE.; 24 ft S. of, and 6 ft lower than hwy.; on stone culvert in centerline of S. headwall; chiseled square	541.14

LINE 5 (Cont'd.)

	<u>Feet</u>
12.1 U. E., 0.9 mi NE. along U. S. Highway 60 from 6 JR; 105 ft E. of I-jct. of hwy. and county rd. S.; 22 ft S. of, and 4 ft lower than centerline of hwy.; on stone culvert; in centerline of S. headwall; chiseled square	650.01
12.7 U. E., 1.5 mi NE. along U. S. Highway 60 from 6 JR; at Blue Ridge Cafe; 42 ft NW. of, and level with centerline of hwy.; at front entrance of cafe; on concrete step; chiseled square	659.74
13.1 Marion, 2.9 mi W. of post office, along U. S. Highway 60; 5.2 mi NE. along Hwy. 60 and from New Salem; 0.4 mi NE. of Blue Ridge Cafe; 100 ft N. of pond; 22 ft N. and 60 ft W. of; and 6 ft higher than centerline of crossroads; 2 ft E. of power pole; in concrete post; a standard tablet stamped "7 JR 1953 636 TT"	655.789
13.1 Reference mark, 77 ft SE. of tablet; 18 ft S. of hwy.; 9 ft W. of driveway; on W. end of concrete drainpipe; chiseled square	629.28
14.7 U. E., 1.6 mi E. along U. S. Highway 60 from 7 JR; at bridge over Crooked Creek; 12 ft S. of, and level with centerline of hwy.; on centerline of S. headwall; chiseled square	538.03
15.9 "G 64 X 1935" (NGS)	593.732

LINE 6.

By J. J. Recktenwald, 1953; Book AV 2022

0.00 "4 JR 1953 431 TT" (Described in line 5)	431.189
0.00 Reference mark, 92 ft W. of tablet; on church steps; on bottom step; chiseled square	431.66
0.4 U. E., 0.4 mi SW. along U. S. Highway 60 from New Salem Presbyterian Church; 670 ft W. of Dry Fork Creek; at concrete culvert; 15 ft S. of, and level with centerline of hwy.; on centerline of S. headwall; chiseled square	431.57
0.9 New Salem, 0.9 mi SW. of Presbyterian Church, along U. S. Highway 60; 2.3 mi NW. along U. S. Highway 60 from Salem; 37 ft N. and 143 ft E. of, and level with I-jct. of hwy. and county rd. SE.; 2 ft N. and 3 ft W. of fence corner; in concrete post; standard tablet stamped "8 JR 1953 440 TT"	439.852
0.9 Reference mark, 24 ft S. and 252 ft W. of tablet; 12 ft N. and 105 ft W. of I-jct. of hwy. and county rd.; in stone culvert; on centerline of N. headwall; chiseled square	440.80
1.5 U. E., 0.6 mi SW. along U. S. hwy. 60 from 8 JR; at Crittenden-Livingston County line; at concrete bridge over Crodson Creek; 20 ft SW. of, and level with centerline of bridge; on W. end of S. headwall; chiseled square	405.19
2.1 U. E., 1.2 mi SW. along U. S. Highway 60 from 8 JR; at small drain crossing; 20 ft S. and 1 ft lower than centerline of hwy.; at E. end of S. headwall; on concrete culvert; chiseled square	430.57



LINE 6 (Cont'd.)Feet

2.6	U. E., 1.7 mi SW. along U. S. Highway 60 from 8 JR; about 500 ft W. of Dun Roven Motel; at creek crossing; 20 ft S. and 2.5 ft lower than centerline of hwy.; at concrete culvert; on centerline of S. headwall; chiseled square	414.01
3.2	At Salem; 75 ft S. and 12 ft E. of SE. corner of the Salem Baptist Church; 27 ft N. and 20 ft W. of, and 2 ft higher than cross-jct. of U. S. Highway 60 and Hayden Avenue; on iron pipe; standard cap stamped "PRIM TRAV STA NO 3 1915 449" (Reported destroyed, 1960)	447.883
3.2	Reference mark, 65 ft N. of tablet; 8 ft S. and 13 ft E. of SE. corner of the Salem Baptist Church; on W. edge of sidewalk; on bottom step; chiseled square	447.42
4.1	Salem, 0.9 mi N. along county rd. to Irma; 90 ft S. of crest of hill; 24 ft E. of centerline of rd.; 6 ft W. of fence line; in limestone boulder; standard tablet stamped "9 JR 1953 491 TT"	490.662
4.1	Reference mark, 97 ft N. and 37 ft W. of tablet; 12 ft W. of and 2.5 ft higher than centerline of rd. crossing ridge; in notch in root on E. side of 15-in. oak tree; copper nail and washer	495.42
4.5	U. E., 0.4 mi N. along county rd. from 9 JR; at creek crossing; 6 ft E. and 2 ft higher than centerline of rd.; on concrete bridge; on centerline of side rail; chiseled square	442.30
6.0	Salem, 2.8 mi N. along county rd. to Irma; at concrete bridge over Sandy Creek; 10 ft N. and 9 ft E. of, and 1 ft lower than centerline of bridge; in E. end of NE. wingwall; standard tablet stamped "10 JR 1953 444 TT"	443.859
6.0	Reference mark, 54 ft S. and 24 ft E. of tablet; 15 ft E. of centerline of rd.; at base on N. side of 30 in. walnut tree; in notch; copper nail and washer	446.06
6.9	U. E., 0.9 mi N. along county rd. from 10 JR; at rd. bend; at bridge over small creek; 7 ft W. of, and level with centerline of rd.; on centerline of W. headwall; chiseled square	480.61
7.4	U. E., 1.4 mi N. along county rd. from 10 JR; in NW. corner of yard around large white house; 24 ft N. and 24 ft E. of, and 3 ft higher than jct. of county rd. and driveway E.; at base on W. side of 24 in. gum tree; in notch; copper nail and washer	563.18
7.9	Salem, 4.7 mi N. along county rd. to Irma; about 350 ft N. of Pleasant Grove School; 60 ft N. of powerline; 45 ft N. and 15 ft W. of, and 3 ft higher than Y-jct. of county rd. and rd. SW. to Pleasant Grove Church; in concrete post; standard tablet stamped "11 JR 1953 521 TT" (Reported destroyed, 1960)	520.670
7.9	Reference mark; 36 ft E. of tablet; 21 ft E. of centerline of county rd.; at base on W. side of 14 in. oak tree; in notch; copper nail and washer	524.93



## LINE 6 (Cont'd.)

		<u>Feet</u>
9.4	U. E., 1.5 mi N. along county rd. from 11 JR; 36 ft N. and 35 ft W. of NW. corner of house; 51 ft N. and 20 ft E. of, and 2 ft higher than centerline of rd. crossing ridge; in root on S. side of maple tree; copper nail and washer	465.50
9.7	Salem, 6.5 mi N. of, along county rd. to Irma; 2.5 mi S. along county rd. from Irma; 700 ft N. of Coefield Creek; at Liberty Grove Church; in SW. corner of bottom step; standard tablet stamped "12 JR 1953 376 TT"	376.477
9.7	Reference mark, 30 ft S. and 75 ft W. of tablet; 15 ft W. of centerline of rd.; in root on N. side of 28 in. tree; in notch; copper nail and washer	373.45
10.2	U. E., 0.5 mi N. along county rd. to Irma from Liberty Grove Church; at drain crossing; 10 ft E. and 12 ft S. of, and 1 ft lower than centerline of wooden bridge; on E. end of concrete wingwall; chiseled square	414.56
11.2	U. E., 1.4 mi N. along county rd. to Irma from Liberty Grove Church; 1.1 mi S. of Irma; at creek crossing; 12 ft N. and 9 ft W. of, and 0.5 ft lower than centerline of wooden bridge; on NW. concrete wingwall; chiseled square	450.08
11.6	U. E., 0.4 mi S. along county rd. from Irma; 2.1 mi N. along county rd. from Liberty Grove Church; at small creek crossing; 12 ft S. and 14 ft W. of, and 1 ft lower than centerline of wooden bridge; on W. end of SW. stone wingwall; chiseled square	453.06
12.2	"13 JR 1953 489 TT" (Described in line 4)	489.314
13.1	U. E., 0.9 mi SE. along State Highway 297 from 13 JR; 15 ft W. of and 1 ft lower than cross-junction of hwy. and driveway E. and field rd. W.; on N. end of corrugated drainpipe; chiseled cross	503.24
14.60	Irma, 2.4 mi SE. of, along State Highway 297, thence 1.0 mi N. along narrow dirt rd.; 1.9 mi NW. and 0.3 mi W. along county rds. from Sheridan; 16 ft N. and 42 ft W. of, and 4 ft higher than Y-jct. of county rd. and abandoned rd. W.; 10 ft N. of 15 in. hickory tree; 1 ft E. of fenceline; in concrete post; standard tablet stamped "14 JR 1953 531"	530.805
14.60	Reference mark, 83 ft W. of tablet; 6 ft N. of abandoned rd.; in root on S. side of 26 in. oak tree; copper nail and washer	524.50
15.09	U. E., 0.5 mi E. along county rd. from 14 JR; at bottom of steep hill; at creek crossing; 7 ft N. and 7 ft W. of, and 0.5 ft lower than centerline of small wooden bridge; on N. end of NW. wingwall; chiseled square	415.56
16.37	Sheridan, 1.9 mi NW. along county rd., thence 1.4 mi E. along county rd.; 0.4 mi W. of Glendale School (abandoned) at top of high ridge; about 500 ft NW. of old log barn; 27 ft S. and 15 ft E. of, and 2 ft higher than centerline of I-jct. of county rd. and field rd. S.; 1 ft N. of fenceline; in concrete post; standard tablet stamped "15 JR 1953 496"	496.060

LINE 6 (Cont'd.)Feet

16.37	Reference mark, 18 ft N. and 15 ft E. of tablet; 7 ft S. of centerline of rd.; in notch on N. side of twin oak trees; copper nail and washer	496.02
17.01	U. E., 0.3 mi E. along county rd., thence 0.3 mi N. along county rd. to Commodore Mine from 15 JR; 39 ft N. and level with Y-jct. of graveled rd. and dirt rd.; on concrete drainpipe, 1 ft E. of W. end; chiseled square	408.09
17.86	U. E., 0.2 mi E. along field rd. from Commodore Mine, thence 0.3 mi SE. along woods rd.; about 0.2 mi W. of log house; on W. center edge of large field; 21 ft S. and 21 ft E. of and level with centerline of rd.; at gate in N.-S. fence line; on sandstone boulder; chiseled square	543.49
18.18	Marion, 2.1 mi W. along U. S. Highway 60, thence 2.7 mi NW. along county rd. to Hurricane Creek, thence 0.7 mi NW. along farm rd.; 750 ft SE. of Kirk farmhouse; 15 ft SW. of, and 3 ft higher than centerline of rd. at slight bend; in boulder; standard tablet stamped "16 JR 1953 457"	457.108
18.18	Reference mark, 36 ft N. of tablet; 15 ft N. of centerline of rd.; on boulder; chiseled square	454.15
19.27	U. E., 0.7 mi E. of Hurricane Creek along field rd.; 1.4 mi SW. along dirt rd. from 17 JR; about 700 ft SE. of Shoemaker farmhouse; 114 ft W. of barn; 15 ft N. of, and 1 ft higher than jct. of rd. and driveway to house; at E. end of corrugated drainpipe; chiseled cross	420.98
20.64	Marion, 5.3 mi NW. of, along State Highway 91 to Forest Grove School, thence 0.9 mi SW. along county rd.; 5 ft S. and 5 ft E. of SW. corner of the Hodge farmhouse; at water well; in NW. corner of walk; standard tablet stamped "17 JR 1953 433"	432.999
20.64	Reference mark, 83 ft W. of tablet; 7 ft N. of driveway; in root on S. side of maple tree; copper nail and washer	426.87
21.53	"TT 3 IG 1953 515" (Described in line 3) (Also in line 4)	514.730
21.53	Reference mark, 68 ft N. of tablet; in root on S. side of 24 in. maple tree; copper nail and washer	515.31

LINE 7.

By J. J. Recktenwald, 1953; Book AV 2022

0.00	"PRIM TRAV STA NO 3 1915 449" (Described in line 6)	447.883
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1953

LINE 8.Feet

By J. J. Recktenwald, 1953; Book AV 2022

0.00	"6 JR 1953 474 TT" (Described in line 5)	473.740
0.85	U. E., 0.8 mi NW. along State Highway 297 from 6 JR; at Y-jct. of hwy. and oiled rd. W. to Keystone Mine; at centerline of Y; on W. edge of hwy.; top of RR. spike	490.17
1.75	Marion, 4.7 mi SW. of, along U. S. Highway 60, thence 1.8 mi NW. along State Highway 297; 1.6 mi SE. along State Highway 297 from Sheridan; about 850 ft W. of Wiloam School; 18 ft S. and 30 ft W. of, and 3 ft higher than T-jct. of hwy. and county rd. SW.; 1 ft N. and 2 ft W. of fence corner, in concrete post; standard tablet stamped "18 JR 1953 445"	444.681
1.75	Reference mark, 45 ft N. and 165 ft W. of tablet; 15 ft SW. of, and 0.5 ft lower than centerline of hwy.; in concrete culvert; on S. headwall; chiseled square	440.53
2.72	U. E., 1.0 mi NW. along State Highway 297 from 18 JR.; 15 ft N. and 63 ft E. of, and level with centerline of T-jct. of hwy. and county rd. N. to Commodore Mine; in concrete culvert; on centerline of N. headwall; chiseled square	471.50
3.60	Sheridan, 0.7 mi SE. along State Highway 297, thence 0.8 mi N. along county rd. to Commodore Mine; 30 ft W. of, and 2 ft higher than Y-jct. of county rd. and graveled rd. E.; 15 ft N. of dim field rd.; 6 ft S. of 12 in. hickory tree; in concrete post; standard tablet stamped "19 JR 1953 525"	524.747
3.60	Reference mark, 38 ft N. of tablet; 27 ft W. of county rd.; in root on W. side of oak tree; copper nail and washer	523.54
4.92	"15 JR 1953 496" (Described in line 6)	496.060
5.59	U. E., 0.3 mi E. along county rd. thence 0.3 mi N. along county rd. from 15 JR; 39 ft N. of, and level with Y-jct. of graveled rd. and dirt rd.; on concrete drainpipe; 1 ft E. of W. end; chiseled square	408.19
6.83	Sheridan, 0.7 mi SE. along State Highway 297, thence 3.4 mi N. along county rd. leading to State Highway 387; 93 ft N. and 28 ft W. of NW. corner of yellow house; 15 ft N. and 25 ft E. of, and 3 ft higher than T-jct. of county rd. and driveway; 2 ft E. of 48 in oak tree; in concrete post; standard tablet stamped "34 JR 1953 506"	505.594
6.83	Reference mark, 52 ft W. of tablet; 27 ft W. of centerline of county rd.; in notch on E. side of 30 in. oak tree; copper nail and washer	501.76
8.92	Sheridan, 0.7 mi SE. of, along State Highway 297, thence 5.5 mi N. along county rd. to Colan School (abandoned); 9.9 mi NW. along State Highway 91, thence 2.5 mi SW. along State Highway 387 (Hurricane Highway) from Marion; about 700 ft N. of Colan School; 28 ft N. and 21 ft E. of, and 2 ft higher than T-jct. of hwy. and county rd.; 3 ft S. of fence corner; in concrete post; standard tablet stamped "35 JR 1953 471"	470.767

LINE 8 (Cont'd.)Feet

8.92	Reference mark, 79 ft S. of tablet; 24 ft E. of county rd.; 1 ft E. of fence line; in notch on E. side of 10 in. hickory tree; copper nail and washer	478.89
10.75	U. E., 1.8 mi NE. along Ky. State Highway 387 from 35 JR; on centerline of concrete bridge over Hurricane Creek; chiseled square	354.25
11.46	Marion, 9.9 mi NW. of, along Kentucky State Highway 91; 0.7 mi SE. of along State Highway 297, thence 5.5 mi N. along county rd., thence 2.5 mi NE. along State Highway 387 from Sheridan; 18 ft S. and 36 ft E. of, and 2 ft lower than jct. of Highway 91 and Highway 387; 36 ft E. of edge of woods; on small ridge; in concrete post; standard tablet stamped "36 JR 1953 420"	419.761
11.46	Reference mark, 12 ft N. and 36 ft W. of tablet; 1 ft W. of fence line; in root on W. side of 12 in. elm tree; in notch; copper nail and washer	419.34
12.49	U. E., about 0.5 mi S. of Cave In Rock Ferry, in centerline of bridge on hwy. 91; chiseled square	342.38
13.67	"BM 1259" (USED) (Described in line 4)	350.684

LINE 9.

By J. J. Recktenwald, 1953; Book AV 2022

22.15	"TT 8 IG 1953 373" (Described in line 4)	373.315
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LINE 10.

By J. J. Recktenwald, 1953; Book AV 2022

0.00	"35 JR 1953 471" (Described in line 8)	470.767
1.24	U. E., 1.2 mi NW. along State Highway 387 from 35 JR; near bottom of hill at drain crossing; 12 ft S. of, and level with centerline of hwy.; in concrete culvert; on centerline of S. headwall; chiseled square	360.83
1.96	Tolu, 2.0 mi SE. of, along State Highway 387; 24 ft S. and 9 ft W. of, and level with centerline of cross junction of hwy. and N.-S. rd.; 1 ft N. and 8 ft W. of fence corner; in concrete post; standard tablet stamped "37 JR 1953 367"	366.901
1.96	Reference mark; 6 ft N. and 30 ft E. of tablet; 4 ft W. of mailbox; in concrete culvert; on headwall; chiseled square	367.53
4.04	"TT 8 IG 1953 373" (Described in line 4) (Also in line 9)	373.315

LINE 11.

By J. J. Recktenwald, 1953; Book AV 2022

0.00	"E 64 1935" (NGS)	482.374
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LINE 11 (Cont'd.)Feet

1.2 U. E., 0.7 mi NE. along county rd.; thence 0.5 mi SE. along county rd. from Repton; about 200 ft SE. of rd. bend; at centerline of county rd.; on concrete drainpipe; chiseled square

504.28

LINE 12.

By W. L. Wallace, 1953; Book AV 2020

6.18 Starr, at NE. angle of crossroads; in SW. corner of foundation wall of red brick church; standard tablet stamped "541 ADJ 1903"

540.339

7.72 Enon, 0.8 mi NE. of Piney Creek bridge, along graveled rd. to a T-rd. N., thence 4.5 mi N. along dirt rd.; 20 ft N. of and 35 ft E. of, and 3.5 ft higher than centerline of T-rd. E.; in concrete post projecting 4 in. above surface of ground; standard tablet stamped "49 WLW 1953"

528.838

7.72 Reference mark, 55 ft NW. of tablet; 8 ft S. and 12 ft W. of, and level with centerline of T-rd. W.; in root on E. side of tree; copper nail and washer

523.70

LINE 13.

By W. P. Metcalfe, Jr., 1957; Book CV 828

25.0 2.5 mi W. of junction of State Highway 1 and 146; T. 12 S., R. 9 E., in NE 1/4 section 9; 210 ft W. along Hwy. 146 from crossroads; 57 ft normal to and on N. side of center of rd.; 5 ft W. of power pole; 3 ft S. of fence; in concrete post; standard tablet stamped "9 WPM 1957 476"

475.679

25.0 Reference mark, 72 ft S. of tablet; on concrete drain; chiseled square

472.82

25.8 U. E., 0.8 mi W. along State Highway 146 from tablet; T. 12 S., R. 9 E., in NW 1/4 section 9; 111 ft S. and 39 ft W. of T-rd. N.; in base of power pole; rail spike

464.67

26.6 Cave in Rock, 2.2 mi N. of, thence 3.7 mi SW.; 0.25 mi N. of center of section 8, T. 12 S., R. 9 E.; 800 ft N. and 400 ft E. of Peters Creek Store; on N. side of rd.; on iron post; standard cap stamped "PRIM TRAV STA 34 1913 454"

453.079

27.1 U. E., "WPM 1957", 2.0 mi SW. of, along State Highway 146; T. 12 S., R. 9 E., 0.25 mi E. of quarter corner between sections 8 and 7; 69 ft S. and 30 ft E. of T-rd. S.; in the base of a power pole; RR. spike

453.12

28.4 U. E., 0.4 mi NE. along rd. from "11 WPM 1957"; T. 12 S., R. 9 E., 0.13 mi E. of 1/4 corner sections 17 and 18; 21 ft N. and 21 ft W. of T-rd. NW.; in base of 8 in. ash tree; RR. spike

372.65

HORIZONTAL CONTROL  
NORTH AMERICAN DATUM OF 1927

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

37-088-21  
CAVE IN ROCK QUADRANGLE  
107 KY.-6 ILL.  
N3715-W8800/15  
DIAGRAM NJ 16-7  
PADUCAH

Crittenden and Livingston Counties, Kentucky;  
Hardin County, Illinois

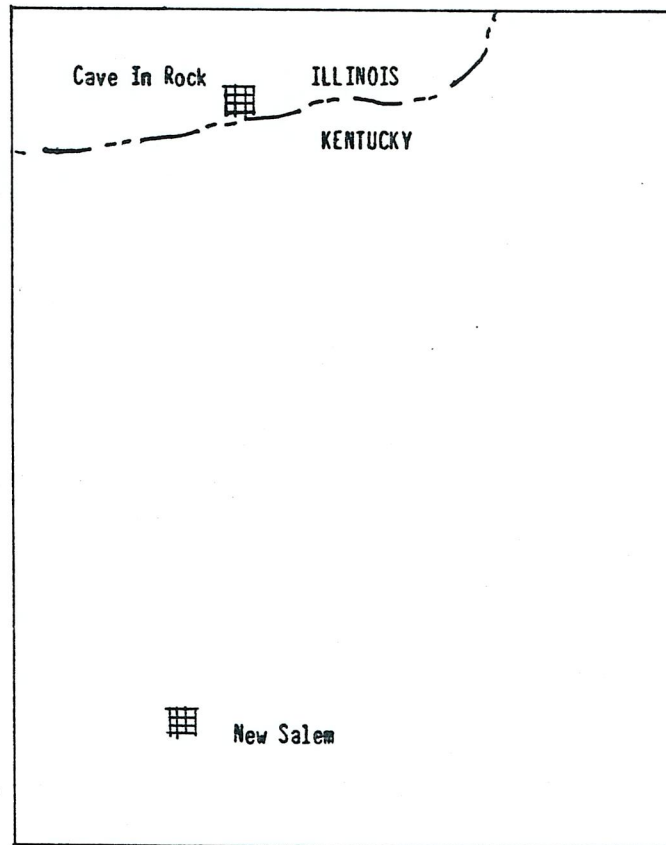
Only the permanent marks are  
listed for control classified  
obsolete and are not shown on  
sketch

Edition of 10/11/77

PR: CRV/rmm

Plane coordinates are based on Lambert projection,  
Kentucky, South Zone, and transverse Mercator  
projection, Illinois, East Zone

SHAWNEETOWN  
(135 KY.-13 ILL.)



GOLCONDA  
(108 KY.-7 ILL.)

PROVIDENCE  
(106)

EDDYVILLE  
(78)

37°15'



DISCLAIMER

We no longer attest to the validity of the positions listed for horizontal control established by transit traverse procedures. This control is now considered OBSOLETE and is included in this list for the purpose of identification only.

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PTS NO 2 1915 499	3
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PTS NO 7 1915	3
PTS NO 8 1915	3
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STATION	DESCRIPTION	LATITUDE	LONGITUDE
	PLANE COORDINATES, FEET	° ' "	° ' "

The following positions are considered OBSOLETE. To be used only to locate permanent marks in the field.

By J. R. Ellis, 1908; Books A1221, A1222

Peters Creek; 200 ft E. of turn of rd. at store; on N. side of rd.; on iron post; standard cap stamped "PRIM TRAV STA NO 34 1908 ILL"

Ky. S.)	X = 1,278,786	Y = 431,454	37 29 32.30	88 14 10.00
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By J. H. Wilson, 1915; Books A3071-76

Irma, about 1.7 mi S. of; about 900 ft N. of Sullinger School; 415 ft N. of T-rd. E.; 20 ft E. of intersection of Salem-Tolu and Lola-Tolu Roads; on iron post; standard cap stamped "PRIM TRAV STA NO 2 1915 499"  
(Not found, 1954)

	X = 1,276,222	Y = 386,019	37 22 02.60	88 14 26.90
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Tolu; on N. side of E. and W. street; 7 ft N. and 12 ft W. of NW. corner of Southern Methodist Church; on iron post; standard cap stamped "PRIM TRAV STA NO 7 1915"

	X = 1,275,267	Y = 410,371	37 26 03.00	88 14 46.70
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By T. W. Cayce, 1951; Book AH 226

Sturgis, 6.8 mi SW. of; 0.7 mi S. of Bell Mines School, along graveled rd. to offset crossroad, thence 3.2 mi SW. (right) along graveled rd.; 21 ft E. of, and in line with junction of T-rd. W.; 61 ft SSE. of abandoned rd. intersection SE.; in concrete post; standard tablet stamped "TT 24 TWC 1951" (Reported destroyed, 1963)

	X = 1,334,141	Y = 425,166	37 28 44.03	88 02 41.43
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By I. H. Gessley, 1952-53; Book AH 2006

Marion, 8.9 mi N. of Crittenden County Courthouse, along State Highway 91, thence 0.5 mi right NE. along dirt rd. to Y-fork, thence 0.9 mi left NE. to Y-fork, thence 1.6 mi right NE.; at Fords Ferry; 97 ft N. and 19 ft W. of NW. corner of old store building; on iron post; standard cap stamped "PRIM TRAV STA NO 8 1915"

	X = 1,314,892	Y = 420,778	37 27 55.98	88 06 38.80
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Marion, 11.7 mi N. of Crittenden County Courthouse, along State Highway 91; 0.7 mi W. of wooden bridge over slough; in concrete post; standard tablet stamped "TT 6 IG 1953"

	X = 1,295,423	Y = 416,770	37 27 11.47	88 10 38.93
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STATION	DESCRIPTION	LATITUDE	LONGITUDE
	PLANE COORDINATES, FEET	° ' "	° ' "

OBSOLETE MARKS (Cont'd.)

Marion, 10.7 mi N. of Crittenden County Courthouse, along State Highway 91, thence 5.9 mi W. along State Highway 387; 0.5 mi E. of post office at Tolu, thence 2.3 mi N. through J. T. Wright's farmyard to junction of T-rd., thence 0.9 mi N. and NE. along farm lane to tractor shed; 1 ft S. and 4 ft E. of southernmost (largest of two pecan trees); in concrete post; standard tablet stamped "TT 7 IG 1953"

Ky. S.) X = 1,282,770 Y = 414,434 37 26 45.15 88 13 15.05

Tolu, 450 ft W. of post office; 11 ft N. and 42 ft E. of intersection of main rd. and T-rd. S.; in concrete sidewalk; standard tablet stamped "TT 8 IG 1953 373"

X = 1,275,299 Y = 410,362 37 26 02.96 88 14 46.32

Salem; 75 ft S. and 12 ft E. of SE. corner of Baptist Church; 27 ft N. and 20 ft W. of, and 2 ft higher than junction of U. S. Highway 60 and Hayden Avenue; on iron pipe; standard cap stamped "PRIM TRAV STA NO 3 1915 449" (Reported destroyed, 1959)

X = 1,274,201 Y = 348,546 37 15 51.67 88 14 39.69

New Salem, 0.9 mi SW. of Presbyterian Church, along U. S. Highway 60; 2.3 mi NW. of Salem, along Highway 60; 37 ft N. and 143 ft E. of, and level with junction of county rd. SE.; 2 ft N. and 3 ft W. of fence corner; in concrete post; standard tablet stamped "8 JR 1953 440 TT"

X = 1,284,838 Y = 352,369 37 16 32.22 88 12 29.37

New Salem; 9 ft S. and 78 ft E. of SE. corner of Presbyterian Church; 40 ft N. and 75 ft E. of, and 1 ft lower than junction of hwy. and county rd. (Y-rd.); in NE. corner of parking lot; in concrete post; standard tablet stamped "4 JR 1953 431 TT"

X = 1,288,998 Y = 354,967 37 16 58.97 88 11 38.76

New Salem, 1.0 mi NE. of Presbyterian Church, along U. S. Highway 60; 26 ft N. and 22 ft W. of, and 1 ft lower than junction of rd. SE.; 45 ft N. of drain; 1 ft E. of fenceline; in rock outcrop; standard tablet stamped "5 JR 1953 529 TT"

X = 1,292,861 Y = 358,586 37 17 35.74 88 10 52.12

New Salem, 3.3 mi NE. of Presbyterian Church, along U. S. Highway 60; 4.7 mi SW. of Marion along Highway 60; 25 ft S. and 40 ft E. of, and level with westernmost junction of Highway 60 and State Highway 297; 50 ft S. and 126 ft W. of junction of hwy. and county rd. S.; 1 ft N. and 14 ft E. of fence corner; in concrete post; standard tablet stamped "6 JR 1953 474 TT"

X = 1,300,516 Y = 366,138 37 18 52.31 88 09 19.81



STATION	DESCRIPTION PLANE COORDINATES, FEET	LATITUDE ° ' "	LONGITUDE ° ' "
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OBSOLETE MARKS (Cont'd.)

Marion, 2.9 mi W. of post office, along U. S. Highway 60; 5.2 mi NE. along Highway 60 from New Salem; 0.4 mi NE. of Blue Ridge Cafe; 100 ft N. of pond; 22 ft N. and 60 ft W. of, and 6 ft higher than center of crossroads; 2 ft E. of power pole; in concrete post; standard tablet stamped "7 JR 1953 636 IT"

Ky. S.)	X = 1,309,019      Y = 370,169	37 19 34.28	88 07 35.83
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At Crittenden County Courthouse; 57 ft NE. of NE. corner of courthouse; 56 ft S. and 48 ft W. of intersection of center of S. Main and Belleville Streets; 12 ft S. of Illinois Central RR. monument; in concrete post; standard tablet stamped "PRIM TRAV STA NO 1 1915 RESET 1953"

	X = 1,322,171      Y = 372,229	37 19 57.89	88 04 53.67
--	--------------------------------	-------------	-------------

Salem, 0.9 mi N. of, along county rd. to Irma; 90 ft S. of crest of hill; 24 ft E. of centerline of rd.; 6 ft W. of fenceline; in limestone boulder; standard tablet stamped "9 JR 1953 491 IT"

	X = 1,276,092      Y = 353,034	37 16 36.52	88 14 17.77
--	--------------------------------	-------------	-------------

Salem, 2.8 mi N. of, along county rd. to Irma; at concrete bridge over Sandy Creek; 10 ft N. and 9 ft E. of, and 1 ft lower than center of bridge; in E. end of NE. wingwall; standard tablet stamped "10 JR 1953 444 IT"

	X = 1,277,952      Y = 362,623	37 18 11.79	88 13 57.88
--	--------------------------------	-------------	-------------

Salem, 6.5 mi N. of, along county rd. to Irma; 2.5 mi S. of Irma; 700 ft N. of Coefield Creek; at Liberty Grove Church; in SW. corner of bottom step; standard tablet stamped "12 JR 1953 376 IT"

	X = 1,277,019      Y = 380,661	37 21 09.84	88 14 15.31
--	--------------------------------	-------------	-------------

Irma; 700 ft SE. of Sullinger's Store, along State Highway 297; 29 ft S. and 32 ft W. of, and 3 ft higher than junction of Highway 297 and county rd.; 1 ft N. and 3 ft W. of fence corner; in concrete post; standard tablet stamped "13 JR 1953 489 IT"

	X = 1,275,040      Y = 393,106	37 23 12.33	88 14 43.88
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Mexico, 2.0 mi N. of depot, along Illinois Central Railroad; about 500 ft S. of rd. crossing; about 330 ft S. of trestle No. 79.9; 51 ft NW. of NW. corner of trestle over stream; in sandstone outcrop; NGS standard disk stamped "L 138 1949"

	X = 1,318,705      Y = 344,620	37 15 24.13	88 05 28.10
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Crayne; 70 ft NE. of NE. corner of concrete block building occupied by post office and Shell service station; 10 ft W. of State Highway 91; in S. end of W. concrete headwall of 18-in. pipe culvert; NGS standard disk stamped "H 64 X 1935"

	X = 1,321,300      Y = 349,186	37 16 09.90	88 04 57.41
--	--------------------------------	-------------	-------------



HORIZONTAL CONTROL  
NORTH AMERICAN DATUM OF 1927

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

107 KY.-8 ILL.  
N3715-W8800/15  
DIAGRAM NJ 16-7  
PADUCAH  
Only the permanent marks are  
listed for control classified  
obsolete and are not shown on  
sketch

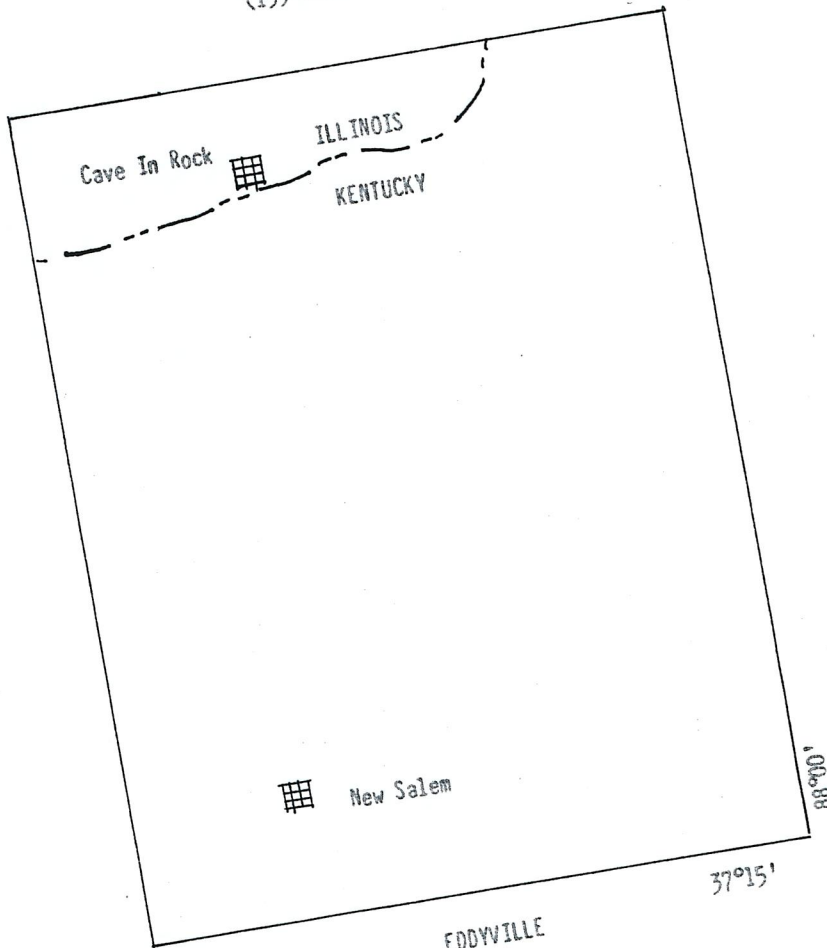
Crittenden and Livingston Counties, Kentucky;  
Hardin County, Illinois

Edition of 10/11/77

PR: CRV/rmm

Plane coordinates are based on Lambert projection,  
Kentucky, South Zone, and transverse Mercator  
projection, Illinois, East Zone

SHAWNEETOWN  
(135 KY.-13 ILL.)



GOLCONDA  
(108 KY.-7 ILL.)

DISCLAIMER

We no longer attest to the validity of the positions listed for horizontal control established by transit traverse procedures. This control is now considered OBSOLETE and is included in this list for the purpose of identification only.

107 KY.-6 ILL.  
CAVE IN ROCK QUADRANGLE

37-088-21  
N3715-W8800/15

INDEX OF PERMANENT MARKS

MARK (USGS)

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5 JR 1953 529 TT	4
6 JR 1953 474 TT	4
7 JR 1953 636 TT	4
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10 JR 1953 444 TT	5
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T 138 1949	6
	6



107 KY.-6 ILL.  
CAVE IN ROCK QUADRANGLE

37-088-21  
3

STATION DESCRIPTION  
PLANE COORDINATES, FEET

LATITUDE  
° ' "

LONGITUDE  
° ' "

The following positions are considered OBSOLETE. To be used only to locate permanent marks in the field.

By J. R. Ellis, 1908; Books A1221, A1222

Peters Creek; 200 ft E. of turn of rd. at store; on N. side of rd.; on iron post; standard cap stamped "PRIM TRAV STA NO 34 1908 ILL"  
Ky. S.) X = 1,278,786 Y = 431,454

37 29 32.30

88 14 10.00

By J. H. Wilson, 1915; Books A3071-76

Irma, about 1.7 mi S. of; about 900 ft N. of Sullinger School; 415 ft N. of I-rd. E.; 20 ft E. of intersection of Salem-Tolu and Lola-Tolu Roads; on iron post; standard cap stamped "PRIM TRAV STA NO 2 1915 499"  
(Not found, 1954)

X = 1,276,222

Y = 386,019

37 22 02.60

88 14 26.90

Tolu; on N. side of E. and W. street; 7 ft N. and 12 ft W. of NW. corner of Southern Methodist Church; on iron post; standard cap stamped "PRIM TRAV STA NO 7 1915"

X = 1,275,267

Y = 410,371

37 26 03.00

88 14 46.70

By I. W. Cayce, 1951; Book AH 226

Sturgis, 6.8 mi SW. of; 0.7 mi S. of Bell Mines School, along graveled rd. to offset crossroad, thence 3.2 mi SW. (right) along graveled rd.; 21 ft E. of, and in line with junction of I-rd. W.; 61 ft SSE. of abandoned rd. intersection SE.; in concrete post; standard tablet stamped "TT 24 TWC 1951" (Reported destroyed, 1963)

X = 1,334,141

Y = 425,166

37 28 44.03

88 02 41.43

By I. H. Gessley, 1952-53; Book AH 2006

Marion, 8.9 mi N. of Crittenden County Courthouse, along State Highway 91, thence 0.5 mi right NE. along dirt rd. to Y-fork, thence 0.9 mi left NE. to Y-fork, thence 1.6 mi right NE.; at Fords Ferry; 97 ft N. and 19 ft W. of NW. corner of old store building; on iron post; standard cap stamped "PRIM TRAV STA NO 8 1915"

X = 1,314,892

Y = 420,778

37 27 55.98

88 06 38.80

Marion, 11.7 mi N. of Crittenden County Courthouse, along State Highway 91; 0.7 mi W. of wooden bridge over slough; in concrete post; standard tablet stamped "TT 6 IG 1953"

X = 1,295,423

Y = 416,770

37 27 11.47

88 10 38.93

107 KY.-6 ILL.  
CAVE IN ROCK QUADRANGLE

37-088-21  
4

STATION DESCRIPTION  
PLANE COORDINATES, FEET

LATITUDE  
° ' "

LONGITUDE  
° ' "

OBSOLETE MARKS (Cont'd.)

STATION	DESCRIPTION	PLANE COORDINATES, FEET	LATITUDE ° ' "	LONGITUDE ° ' "
	Marion, 10.7 mi N. of Crittenden County Courthouse, along State Highway 91, thence 5.9 mi W. along State Highway 387; 0.5 mi E. of post office at Tolu, thence 2.3 mi N. through J. T. Wright's farmyard to junction of T-rd., thence 0.9 mi N. and NE. along farm lane to tractor shed; 1 ft S. and 4 ft E. of southernmost (largest of two pecan trees); in concrete post; standard tablet stamped "TT 7 IG 1953"	X = 1,282,770 Y = 414,434	37 26 45.15	88 13 15.05
	Ky. S.) Tolu, 450 ft W. of post office; 11 ft N. and 42 ft E. of intersection of main rd. and T-rd. S.; in concrete sidewalk; standard tablet stamped "TT 8 IG 1953 373"	X = 1,275,299 Y = 410,362	37 26 02.96	88 14 46.32
	Salem; 75 ft S. and 12 ft E. of SE. corner of Baptist Church; 27 ft N. and 20 ft W. of, and 2 ft higher than junction of U. S. Highway 60 and Hayden Avenue; on iron pipe; standard cap stamped "PRIM TRAV STA NO 3 1915 449" (Reported destroyed, 1959)	X = 1,274,201 Y = 348,546	37 15 51.67	88 14 39.69
	New Salem, 0.9 mi SW. of Presbyterian Church, along U. S. Highway 60; 2.3 mi NW. of Salem, along Highway 60; 37 ft N. and 143 ft E. of, and level with junction of county rd. SE.; 2 ft N. and 3 ft W. of fence corner; in concrete post; standard tablet stamped "8 JR 1953 440 TT"	X = 1,284,838 Y = 352,369	37 16 32.22	88 12 29.37
	New Salem; 9 ft S. and 78 ft E. of SE. corner of Presbyterian Church; 40 ft N. and 75 ft E. of, and 1 ft lower than junction of hwy. and county rd. (Y-rd.); in NE. corner of parking lot; in concrete post; standard tablet stamped "4 JR 1953 431 TT"	X = 1,288,998 Y = 354,967	37 16 58.97	88 11 38.76
	New Salem, 1.0 mi NE. of Presbyterian Church, along U. S. Highway 60; 26 ft N. and 22 ft W. of, and 1 ft lower than junction of rd. SE.; 45 ft N. of drain; 1 ft E. of fenceline; in rock outcrop; standard tablet stamped "5 JR 1953 529 TT"	X = 1,292,861 Y = 358,586	37 17 35.74	88 10 52.12
	New Salem, 3.3 mi NE. of Presbyterian Church, along U. S. Highway 60; 4.7 mi SW. of Marion along Highway 60; 25 ft S. and 40 ft E. of, and level with westernmost junction of Highway 60 and State Highway 297; 50 ft S. and 126 ft W. of junction of hwy. and county rd. S.; 1 ft N. and 14 ft E. of fence corner; in concrete post; standard tablet stamped "6 JR 1953 474 TT"	X = 1,300,516 Y = 366,138	37 18 52.31	88 09 19.81

107 KY.-6 ILL.  
CAVE IN ROCK QUADRANGLE

37-088-21  
5

STATION DESCRIPTION  
PLANE COORDINATES, FEET

LATITUDE  
° ' "

LONGITUDE  
° ' "

OBSOLETE MARKS (Cont'd.)

Marion, 2.9 mi W. of post office, along U. S. Highway 60; 5.2 mi NE. along Highway 60 from New Salem; 0.4 mi NE. of Blue Ridge Cafe; 100 ft N. of pond; 22 ft N. and 60 ft W. of, and 6 ft higher than center of crossroads; 2 ft E. of power pole; in concrete post; standard tablet stamped "7 JR 1953 636 II"	X = 1,309,019 Y = 370,169	37 19 34.28	88 07 35.83
At Crittenden County Courthouse; 57 ft NE. of NE. corner of courthouse; 56 ft S. and 48 ft W. of intersection of center of S. Main and Belleville Streets; 12 ft S. of Illinois Central RR. monument; in concrete post; standard tablet stamped "PRIM TRAV STA NO 1 1915 RESET 1953"	X = 1,322,171 Y = 372,229	37 19 57.89	88 04 53.67
Salem, 0.9 mi N. of, along county rd. to Irma; 90 ft S. of crest of hill; 24 ft E. of centerline of rd.; 6 ft W. of fenceline; in limestone boulder; standard tablet stamped "9 JR 1953 491 II"	X = 1,276,092 Y = 353,034	37 16 36.52	88 14 17.77
Salem, 2.8 mi N. of, along county rd. to Irma; at concrete bridge over Sandy Creek; 10 ft N. and 9 ft E. of, and 1 ft lower than center of bridge; in E. end of NE. wingwall; standard tablet stamped "10 JR 1953 444 II"	X = 1,277,952 Y = 362,623	37 18 11.79	88 13 57.88
Salem, 6.5 mi N. of, along county rd. to Irma; 2.5 mi S. of Irma; 700 ft N. of Coefield Creek; at Liberty Grove Church; in SW. corner of bottom step; standard tablet stamped "12 JR 1953 376 II"	X = 1,277,019 Y = 380,661	37 21 09.84	88 14 15.31
Irma; 700 ft SE. of Sullinger's Store, along State Highway 297; 29 ft S. and 32 ft W. of, and 3 ft higher than junction of Highway 297 and county rd.; 1 ft N. and 3 ft W. of fence corner; in concrete post; standard tablet stamped "13 JR 1953 489 II"	X = 1,275,040 Y = 393,106	37 23 12.33	88 14 43.88
Mexico, 2.0 mi N. of depot, along Illinois Central Railroad; about 500 ft S. of rd. crossing; about 330 ft S. of trestle No. 79.9; 51 ft NW. of NW. corner of trestle over stream; in sandstone outcrop; NGS standard disk stamped "L 138 1949"	X = 1,318,705 Y = 344,620	37 15 24.13	88 05 28.10
Crayne; 70 ft NE. of NE. corner of concrete block building occupied by post office and Shell service station; 10 ft W. of State Highway 91; in S. end of W. concrete headwall of 18-in. pipe culvert; NGS standard disk stamped "H 64 X 1935"	X = 1,321,300 Y = 349,186	37 16 09.90	88 04 57.41



107 KY.-6 ILL.  
CAVE IN ROCK QUADRANGLE

37-088-21  
6

STATION DESCRIPTION  
PLANE COORDINATES, FEET

OBSOLETE MARKS (Cont'd.)

LATITUDE  
° ' "

LONGITUDE  
° ' "

Ky. S.)	X = 1,321,150 Y = 349,510	37 16 13.07	88 04 59.36
Crayne, about 1.25 mi NW. of station, along I. C. RR.; about 0.25 mi N. of milepost 78; 263 ft N. of W. end of 36-in. culvert; 18 ft W. of W. rail; in rock outcrop; NGS standard disk stamped "R 138 1949"	X = 1,318,953 Y = 354,918	37 17 05.99	88 05 28.19
Marion, 2.9 mi S. of; 300 ft N. of bridge "JE 77-38"; 90 ft E. of track; in top of stone protruding from ground; standard tablet stamped "642"	X = 1,319,850 Y = 357,140	37 17 28.17	88 05 17.79
Marion, 1.9 mi S. of station, along I. C. RR.; 0.2 mi S. of milepost 76; 237 ft N. of NE. corner of trestle; 37 ft E. of E. rail; in concrete post; NGS standard disk stamped "S 138 1949"	X = 1,321,058 Y = 362,774	37 18 24.16	88 05 04.55
Marion, 0.7 mi S. of station, along I. C. RR.; at crossing of State Highway 91, at S. edge of town; 112 ft SSW. of main track crossing; 32 ft NW. of junction of hwy. and street leading E.; 28 ft SE. of SE. rail; in concrete post; NGS standard disk stamped "T 138 1949"	X = 1,321,592 Y = 368,119	37 19 17.12	88 04 59.58
Marion, 2.3 mi N. of Crittenden County Courthouse, along State Highway 91; about 900 ft SSE. of Freedom School; on W. side of rd. opposite house; 73 ft S. and 15 ft W. of center of rd. at drive E. to house; in concrete post; standard tablet stamped "TI 1 IG 1953"	X = 1,314,163 Y = 379,128	37 21 04.12	88 06 34.87
Marion, 4.3 mi N. of Crittenden County Courthouse, along State Highway 91; 92 ft S. of drive to house NW.; 90 ft N. of drive to house E.; 26 ft W. of, and 6 ft higher than centerline of rd.; 2 ft N. and 2 ft E. of fence corner; in concrete post; standard tablet stamped "TI 2 IG 1953 455"	X = 1,311,681 Y = 387,931	37 22 30.55	88 07 08.40

107 KY.-6 ILL.  
CAVE IN ROCK QUADRANGLE

STATION DESCRIPTION  
PLANE COORDINATES, FEET

OBSOLETE MARKS (Cont'd.)

LATITUDE  
° ' "

LONGITUDE  
° ' "

37-088-21  
7

Crittenden County Courthouse, 5.9 mi N. of, along State Highway 91; at Forest Grove School; 6 ft N. and 8 ft E. of NW. corner of school building; in concrete step; standard tablet stamped "TT 3 IG 1953 515"  
Ky. S.) X = 1,311,317 Y = 395,534  
37 23 45.58 88 07 15.28

Marion, 8.6 mi N. of Crittenden County Courthouse, along State Highway 91; 80 ft S. and 18 ft E. of SW. corner of Schaffer's Store; in line with fence and 97 ft NW. of fence corner; 38 ft E. of, and 1 ft higher than centerline of rd.; in concrete post; standard tablet stamped "TT 4 IG 1953"  
X = 1,309,805 Y = 407,790  
37 25 46.34 88 07 37.83

Marion, 8.9 mi N. of Crittenden County Courthouse, along State Highway 91, thence 0.5 mi right NE. along graveled rd. to Y-fork, thence 0.9 mi left NE. to Y-fork; 9 ft S. and 17 ft W. of intersection of rds.; 1 ft E. of wire fence; about 1 ft higher than intersection; in concrete post; standard tablet stamped "TT 5 IG 1953 356"  
X = 1,310,094 Y = 415,156  
37 26 59.21 88 07 36.53

Cave in Rock, 300 ft S. of post office, thence 2.0 mi E. and N. along state rd., through Cave in Rock Park, thence 0.6 mi E.; 16 ft S. and 31 ft W. of, and 1 ft lower than junction of county rd. and farm lane S. (I-rd.); in concrete post; standard tablet stamped "TT 15 IG 1953"  
X = 1,308,625 Y = 426,515  
37 28 51.13 88 07 58.29

Cave in Rock, 2.0 mi E. of; on S. side of Cave in Rock Fords Ferry Road; 10 ft SW. of centerline of I-rd. NE.; on iron post; standard cap stamped "PRIM TRAV STA NO 35 1908 ILL" (Cap removed, iron pipe intact, 1953)  
X = 1,309,080 Y = 425,846  
37 28 44.62 88 07 52.45