

THIRD-ORDER LEVELING
NATIONAL GEODETIC VERTICAL DATUM OF 1929

37-088-31
BROWNFIELD QUADRANGLE
8 ILL.-109 KY.
N3715-W8830/15
DIAGRAM NJ 16-7
PADUCAH

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

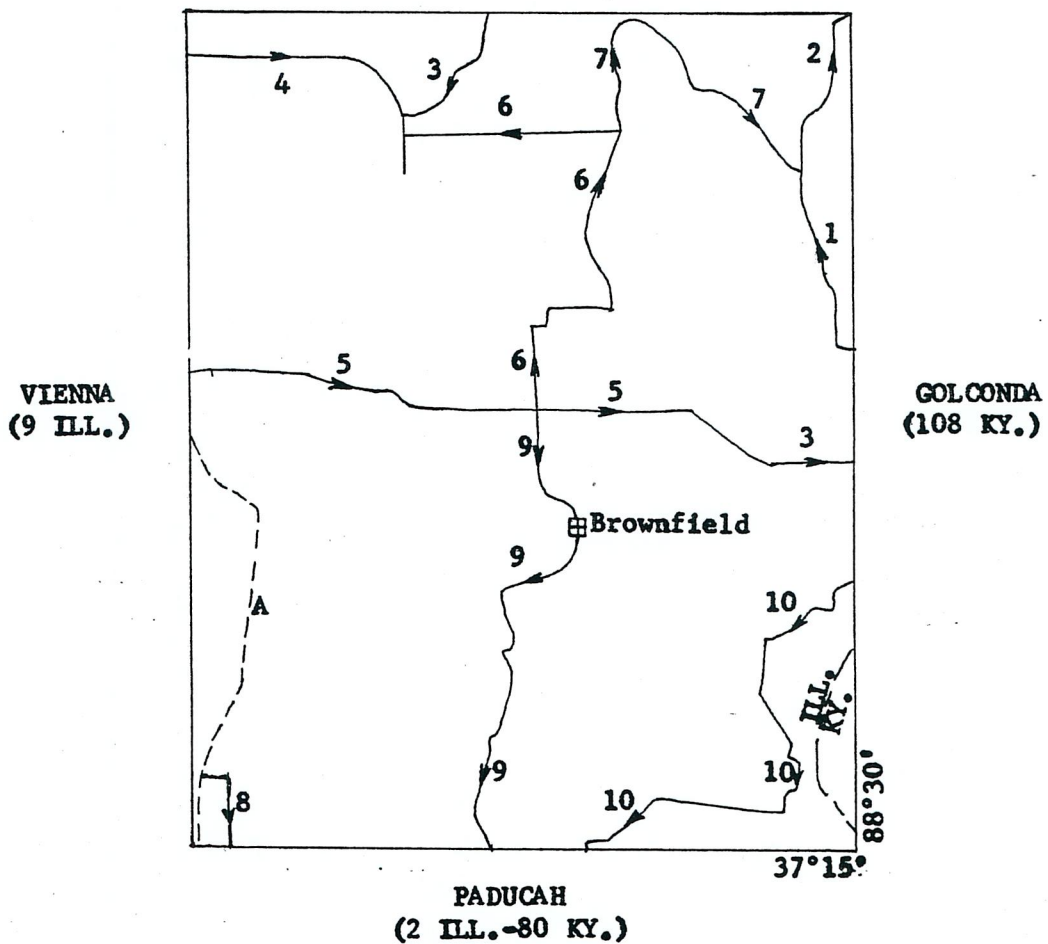
Massac and Pope Counties, Ill.; Livingston
County, Ky.

Final adjustment of 1976

Edition of 9/23/76

PR: FJK/kp

HARRISBURG
(15 ILL.)



NGS (USGS) VERTICAL CONTROL DATA

A. Quadrangle 370883

INDEX OF PERMANENT MARKS

<u>MARK (USGS)</u>	<u>PAGE NO.</u>	<u>MARK (USGS)</u>	<u>PAGE NO.</u>
340	4	TT 10 MT 1957 432	4
345	4	TT 15 KW 1959 661	12
351	3	TT 16 KW 1959 526	12
360	4	TT 17 KW 1959 606	10
361	3	TT 18 KW 1959 645	10
368	3	TT 19 KW 1959 387	8
372 ILL	4	TT 20 KW 1959 508	13
389	6	TT 21 KW 1959 555	13
392	7	TT 22 KW 1959 576	15
394	3	7 FWK 1960 690	6
441	3	8 FWK 1960 431	6,7,11
461 ILL	3	9 FWK 1960 368	8
ILL 497	10	10 FWK 1960 457	8
ILL 515	11,12	11 FWK 1960 469	9
526 RESET 1940	3	12 FWK 1960 502	9
586 ILL	15	13 FWK 1960 473	12
682	3		
737	3	<u>NGS</u>	
754	5		
771	5,5	BEATTY	5
ILL 1913 650	10	J 105 1935	7
TT 4 LJR RESET 1963	15	L 111 1935	12
TT 5 LJR 1953 339	14	TRIGG 1957	7
TT 6 LJR 1953 516	14		

	<u>Feet</u>
ISOLATED BENCH MARKS (By S. R. Archer, 1913-14; Book A9243; R. G. Clinite, 1915; Book A9690)	
Raum, 5.0 mi SE. of; 3.0 mi NW. of Golconda, near E. 1/4 cor. of SE. 1/4 sec. 11, T. 13 S., R. 6 E.; 90 ft N. of junction of rd. SW.; on W. side of rd.; at fenceline; on iron post; standard cap stamped "441" (Not found, 1957)	440.21
Golconda, 3.1 mi SW. of; 2.2 mi NE. of Homberg; 0.2 mi N. of S. 1/4 cor. sec. 35, T. 13 S., R. 6 E.; 200 ft S. of crossing of private rd.; in front of residence of S. B. White; in stone RR. culvert "G R 151.26"; standard tablet stamped "394"	393.35
Homberg, 0.3 mi NW. of; 3.1 mi SE. of Brownfield; 240 ft N. of cattle guard; at rear of house on S. side of track; in SE. corner of stone RR. culvert "G R 148,80"; standard tablet stamped "361"	360.30
Dixon Springs Station (Renshaw), 500 ft E. of station; 900 ft W. of E. 1/4 cor. SE. 1/4 sec. 29, T. 13 S., R. 5 E.; on N. side of track; in top of N. end of stone culvert "G R 141-21"; standard tablet stamped "368"	367.67
Reevesville, one block W. of station; at Methodist Episcopal Church; in SE. corner of churchyard; at property line corner; on iron post; standard cap stamped "351"	350.48
Eddyville, 0.3 mi S. of; 650 ft E. of N. 1/4 cor. NE. 1/4 sec. 7, T. 12 S., R. 6 E.; 750 ft S. of junction of rd. SE.; on W. side of rd.; at fenceline; on iron post; standard cap stamped "682" (Not found, 1959)	681.43
Simpson, 2.2 mi NE. of; 3.0 mi NW. of Robbs, S. of center of sec. 11, T. 12 S., R. 4 E.; 100 ft S. of crossroads; on E. side of rd. S.; in red sandstone outcrop; standard tablet stamped "737" (It has been reported that this bench mark was reset 49 ft SE. from this location, at the same elevation.) (Not found, 1962)	736.04
Simpson, 1.1 mi E. of, along macadam rd.; in NW. 1/4 sec. 23, T. 12 S., R. 4 E.; 82 ft S. and 57 ft E. of T-rd. S.; 3 ft E. of telephone pole; on iron pipe; standard cap stamped "461 ILL"	460.38
Simpson, 1.1 mi E. of, thence 3.5 mi E. of T-rd. N. near cor. secs. 1, 2, 35 and 36; Ts. 12 and 13 S., R. 4 E.; 30 ft S. and 26 ft E. of center of T-rd. S.; 2 ft S. of corner post of fences S. and E.; in concrete post; standard tablet stamped "526 RESET 1940"	526.73

ISOLATED BENCH MARKS (Cont'd.)Feet

Grantsburg, at E. abutment of steel hwy. bridge over Bay Creek; in top of N. end of bridge seat; standard tablet stamped "360" (Not found, 1958)	359.241
McNoel (RR. name Big Bay), 350 ft S. of station; about 650 ft W. of center of sec. 12, T. 14 S., R. 4 E.; on W. side of track; at intersection of W. right-of-way line and E.-W. half-section line; on iron post; standard cap stamped "345"	345.81
Round Knob, 1.6 mi N. of station, along Illinois Central RR.; at Manela; 300 ft S. of station; 54 ft E. of centerline of track; on iron post; standard cap stamped "372 ILL" (Tied by NGS, 1935) (Reported disturbed, 1964)	370.796
Tansill, 0.8 mi S. of; near E. 1/4 cor. SW. 1/4 sec. 15, T. 14 S., R. 6 E.; in NW. angle of junction of T-rd. W.; on iron post; standard cap stamped "340" (Not found, 1958)	339.62

LINE 1.

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

10.1 Golconda, 2.7 mi N. and 1.3 mi W. of; 763 ft E. of crossroads at 1/4 cor. between secs. 11 and 12; T. 13 S., R. 6 E.; 28 ft S. of center of E.-W. macadam rd.; 1 ft N. of fence; in concrete post; standard tablet stamped "TT 10 MT 1957 432"	432.249
10.1 Reference mark; 72 ft NW. of tablet; in power pole; rail spike	432.86
10.9 U.E., 2.0 mi S. along rd. from BM. "771"; T. 13 S., R. 6 E.; in SE. 1/4 of sec. 2; 57 ft S. and 27 ft E. of center of rd. at private drive W.; in base of power pole; rail spike	427.76
11.5 U.E., 1.4 mi S. along rd. from BM. "771"; ts. 12 and 13 S., R. 6 E.; near 1/4 cor. between secs. 2 and 35; 63 ft S. and 36 ft S. of, and 6.7 ft higher than center of rd. at drive to Palestine Church; in base of power pole; rail spike	501.02
12.7 U.E., 0.3 mi S. along rd. from BM. "771"; T. 12 S., R. 6 E.; 1/8 mi E. of cor. secs. 26, 27, 34, and 35; in center of T-rd. W.; copper nail and washer	737.29

LINE 1 (Cont'd.)Feet

- | | | |
|------|--|---------|
| 13.1 | Golconda, about 5.5 mi N. of; 5.5 mi SE. of Eddyville; 0.2 mi W. of Raum LOT and S. of frame house; on property owned by Mr. Fred Story; 32 ft SE. of SW. corner of house; 26 ft SW. of SE. corner of house; 94 ft W. of center of paved rd. and 63 ft W. of white witness post; NGS standard triangulation station "BEATTY" | 781.064 |
| 13.1 | Raum, 1.8 mi S. of; 125 ft S. and 300 ft E. of N. 1/4 cor. NW. 1/4 sec. 35, T. 12 S., R. 6 E.; 150 ft N. of residence of Joseph Robinson; in NE. angle of junction of private rd. E.; at fence corner; on iron post; standard cap stamped "771" | 770.585 |

LINE 2.

By K. L. Wilson, 1959; Book CV 1086

- | | | |
|-----|---|---------|
| 0.0 | "771" (Described in line 1) | 770.585 |
| 0.6 | U.E., 0.5 mi N. of BM. "771"; in center of rd. at driveway W.; copper nail and washer | 729.18 |
| 1.1 | U.E., 1.1 mi N. of BM. "771"; 11 ft W. and 2 ft higher than center of graveled rd.; 6 ft above drain; in center of W. headwall of concrete culvert; chiseled square | 696.73 |
| 1.6 | U.E., 1.5 mi N. of BM. "771"; 9 ft W. and 2 ft higher than center of N.-S. graveled rd.; 6 ft above drain; on center of W. headwall of concrete culvert; chiseled square | 683.84 |
| 2.2 | U.E., 2.2 mi N. of BM. "771"; 12 ft S. and level with center of E.-W. graveled rd.; 3 ft above drain; on center of S. headwall of rock and concrete culvert; chiseled square | 682.07 |
| 3.0 | U.E., 3.0 mi N. of BM. "771"; 0.6 mi S. of BM. "754"; 16 ft N. and 40 ft E. and 1.5 ft lower than center of dim T-rd. W.; in crotch on SW. side of 12-in. oak tree; 1 ft above ground; copper nail and washer | 718.72 |
| 3.6 | Raum, 1.4 mi N. and 0.5 mi E. of; 200 ft N. of S. 1/4 cor. SE. 1/4 sec. 11, T. 12 S., R. 6 E.; 30 ft N. and 15 ft W. of dim T-rd. W.; at fenceline; on iron post; standard cap stamped "754" | 753.090 |
| 3.6 | Reference mark; 41 ft S. and 38 ft W. of tablet; 11 ft S. and 53 ft W. of center of dim T-rd. W.; in root on W. side of 12-in. oak tree; copper nail and washer | 750.08 |

LINE 2 (Cont'd.)Feet

- 4.1 U.E., 0.5 mi N. of BM. "754"; 10 ft W. of center of N.-S. graveled rd.; 2 ft above drain; on SW. cor. of concrete floor of ford; chiseled square 694.87

LINE 3.

By F. W. Krueger, 1960; Book CV 1188

- 17.3 Eddyville, 1.0 mi S. and 3.8 mi W. of; T. 12 S., R. 5 E.; in SW. 1/4 of sec. 10; 90 ft S. and 40 ft E. of rd. at T-fence W.; 49 ft N. and 61 ft E. of rd. at drive to field E.; 2 ft SE. of power pole; in angle formed by guy wire; 0.9 ft lower than rd. at field rd.; in concrete post; standard tablet stamped "7 FWK 1960 690" 690.135
- 17.2 Reference mark; 60 ft WSW. of tablet; 6 ft N. and 23 ft E. of rd. at drive to field E.; on N. end of 12-in. concrete pipe culvert; chiseled square 690.30
- 18.2 U.E., 1.0 mi SW. of tablet; 23 ft N. and 20 ft W. of rd. at old trail E.; on N. side of 60-in. oak tree; 1.1 ft higher than rd. at trail; rail spike 644.96
- 20.9 Eddyville, 2.1 mi S. and 4.3 mi W. of; 0.7 mi N. of Glendale; T. 12 S., R 5 E., in NW. 1/4 of sec. 21; 392 ft N. and 40 ft E. of T-rd. N.; in SW. cor. of schoolyard; 3 ft N. and 17 ft E. of fence corner; 14.2 ft higher than T-rd.; in concrete post; standard tablet stamped "8 FWK 1960 431" 431.314
- 21.0 Reference mark; 390 ft S. of tablet; 60 ft N. and 120 ft E. of, and 0.5 ft lower than T-rd. N.; on concrete right-of-way marker; chiseled square 416.59
- 21.7 Glendale, 100 ft SE. of store building (not in use); T. 12 S., R. 5 E.; near SW. cor. sec. 21; 8 ft N. and 26 ft W. of bridge at Hayes Creek; 11.5 ft above drain; in NW. concrete wingwall of bridge; standard tablet stamped "389" 387.837

LINE 4.

By F. W. Krueger, 1960; CV 1188

- 0.5 U.E., 0.5 mi E. of disk; 23 ft N. and 38 ft W. of, and 2.5 ft higher than crosstrails; in S. side of 12-in. maple tree; rail spike 450.65

LINE 4 (Cont'd.)Feet

- | | | |
|-----|--|---------|
| 1.1 | U.E., 1.1 mi ESE. of disk; 30 ft N. of, and 1.5 ft higher than bend in trail; in S. side of 16-in. hickory tree; rail spike | 665.24 |
| 1.6 | Glendale, 7.0 mi N. of Grantsburg, on high hill in Shawnee National Forest; at Trigg Lookout Tower site; 31 ft N. of NW. leg of lookout tower; 39 ft NW. of NE. leg of lookout tower; 77 ft E. of center of graveled rd.; 29 ft W. of hackberry tree with twin trunk; in concrete post flush with ground; NGS standard triangulation station disk stamped "TRIGG 1957" | 763.920 |
| 2.4 | U.E., 0.8 mi E. of disk; 46 ft S. and 80 ft W. of rd. at private drive E.; 16 ft S. of, and 0.4 ft lower than centerline of rd. at drive; on S. masonry retainer of culvert; chiseled square | 645.93 |
| 4.3 | U.E., 2.7 mi NE. of triangulation station; 40 ft S. and 60 ft E. of farmhouse; 20 ft N. and 36 ft E. of, and 2.4 ft higher than trail forks; in S. side of 18-in. walnut tree; rail spike | 701.49 |
| 5.2 | U.E., 3.3 mi E. (airline) of triangulation station; 37 ft S. and 10 ft E. of center of RR. trestle over E.-W. trail; 1.3 ft lower than trestle; 15.2 ft higher than trail; in SE. piling of retaining support; rail spike | 457.83 |
| 6.1 | Glendale, 2.5 mi NW. of; near E. 1/4 cor. NE. 1/4 of sec. 18, T. 12 W., R. 5 E.; rd. fork (now abandoned trail); 9 ft N. and 29 ft W. of bridge at drain; 10.3 ft above drain; 0.3 ft lower than bridge; in NW. masonry wingwall of bridge over Bay Creek; standard tablet stamped "392" | 390.567 |
| 7.5 | U.E., 1.5 mi SE. of tablet; 62 ft N. and 19 ft W. of N.-S. rd. at E.-W. drive; 0.7 ft higher than rd.; in E. side of power pole; rail spike | 481.52 |
| 8.2 | "8 FWK 1959" (Described in line 3) | 431.314 |

LINE 5.

By F. W. Krueger, 1960; Book CV 1188

- | | | |
|-----|--|---------|
| 0.1 | "J 105 1935" (NGS) | 365.137 |
| 0.9 | U.E., 0.9 mi E. along State Highway 146 from disk, center of hwy. at private drive S.; chiseled square | 420.60 |
| 1.6 | Reference mark; 0.2 mi W. along hwy. from tablet; 12 ft S. and 37 ft W. of center of overpass at RR. track; on W. end of S. concrete curb of overpass; 0.8 ft higher than overpass; 23.6 ft above RR. track; chiseled square | 411.34 |

LINE 5 (Cont'd.)

	<u>Feet</u>
1.8 Grantsburg, 1.9 mi E. of, along State Highway 146; T. 13 S., R. 4 E.; in NE 1/4 sec. 13; 100 ft S. and 80 ft E. of, and 3.2 ft lower than centerline of hwy. at drain; 35 ft N. and 45 ft E. of Pleasant Valley Missionary Baptist Church; 10 ft E. of 36-in. oak tree; 2 ft W. of fence; 4.7 ft above drain; in concrete post; standard tablet stamped "9 FWK 1960 368"	368.332
2.8 U.E., 0.9 mi E. along State Highway 146 from tablet; center of hwy. at T-rd. S.; chiseled square	478.16
3.5 U.E., 1.6 mi E. along State Highway 146 from tablet; 12 ft S. and 29 ft W. of bridge at drain; 16.0 ft above drain; 0.2 ft lower than bridge; on SW. concrete wingwall of bridge; chiseled square	370.35
3.9 Reference mark; 340 ft E. of tablet; 39 ft S. and 116 ft W. of T-rd. S. (SE. curve of modified clover leaf); on concrete drain retainer; chiseled square	451.95
4.0 Grantsburg, 4.0 mi E. of; T. 13 S., R. 5 E.; in SE. 1/4 of sec. 17; 30 ft S. and 17 ft E. of center of State Highway 145 overpass over State Highway 146; 0.4 ft higher than hwy.; 18 ft above Highway 146; on SE. wingwall of overpass; standard tablet stamped "10 FWK 1960 457"	456.545
4.4 U.E., 0.4 mi E. along State Highway 146 from tablet; 12 ft S. of, and 0.2 ft higher than center of bridge over creek; 59.5 ft above drain; on S. concrete curb of bridge; chiseled square	481.77
5.5 U.E., 1.5 mi E. along State Highway 146 from tablet; center of hwy. at T-rd. S.; chiseled square	496.49
6.1 U.E., 2.2 mi E. of tablet; 17 ft N. and 19 ft W. of T-rd. N.; 0.6 ft higher than T-rd.; on E. end of N. concrete headwall of culvert; chiseled square	353.12
7.1 Rock, 2.2 mi S. of; 2.8 mi NW. of Brownfield; near cor. secs. 13, 14, 23, and 24, T. 13 S., R. 5 E.; 32 ft N. and 543 ft W. of center of State Highway 146 at T-rd. S. and 1 ft E. of telephone pole; 2 ft S. of right-of-way fence; in concrete post; standard tablet stamped "TT 19 KW 1959 387"	387.052
7.2 Reference mark; 510 ft E. of tablet; center of State Highway 146 at T-rd. S.; chiseled square	410.94

LINE 5 (Cont'd.)

	<u>Feet</u>
8.2 U.E., 1.0 mi E. along State Highway 146 from tablet; 12 ft S. and 31 ft W. of, and 0.1 ft lower than bridge; at drain; 6.2 ft above drain; on SW. concrete wingwall of bridge; chiseled square	353.51
8.8 U.E., 1.6 mi E. along State Highway 146 from tablet; in center of hwy. at T-rd. S.; chiseled square	355.98
9.3 U.E., 2.1 m E. along State Highway 146 from tablet; 17 ft S. and 14 ft E. of, and 0.4 ft higher than crossroads; on W. end of S. concrete headwall of culvert; chiseled square	362.75
10.4 Golconda, 1.0 mi N. and 4.0 mi W. of; T. 13 S., R. 6 E.; near cor. secs. 16, 17, 20, and 21; 240 ft E. of T-rd. N.; 32 ft N. of centerline of State Highway 146; 2 ft S. of S. right-of-way fence; in concrete post; standard tablet stamped "11 FWK 1960 469"	468.794
10.3 Reference mark; 240 ft W. of tablet; 21 ft S. of T-rd. N.; center of S. concrete headwall of culvert; chiseled square	468.68
11.2 U.E., 0.8 mi E. along State Highway 146 from tablet; 21 ft N. of, and 1.3 ft higher than T-rd. N.; on E. concrete headwall of culvert; chiseled square	490.69
12.1 U.E., 1.8 mi E. along State Highway 146 from tablet; center of hwy. at T-rd. S. (Homborg rd.); chiseled square	546.71
13.5 Golconda, 1.2 mi W. of; T. 13 S., R. 6 E.; near cor. secs. 23, 24, 25, and 26; 32 ft S. and 129 ft E. of center of State Highway 146 at W. entrance to Pope County Community High School; 157 ft S. of S. elevation of school; 2 ft N. and 4 ft E. of power pole; 2 ft N. of fence; 4.2 ft higher than rd. at drive N.; in concrete post; standard tablet stamped "12 FWK 1960 502"	501.848
13.4 Reference mark; 301 ft W. of tablet; 20 ft S. and 8 ft E. of centerline of hwy. at private drive S.; on E. concrete headwall of culvert; chiseled square	497.55

LINE 6.

By F. W. Krueger, 1960; Book CV 1188

0.0 U.E., chiseled square (Described in line 5)	353.12
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LINE 6 (Cont'd.)Feet

1.3	U.E., 1.3 mi N. of starting U.E.; 69 ft S. and 32 ft E. of, and 3.0 ft higher than centerline of rd. at E.-W. fence; on W. side of power pole; rail spike	619.92
2.5	U.E., 2.5 mi NE. of starting U.E., along Eddyville rd.; 35 ft S. and 145 ft E. of E. tangent of curve in rds.; on N. side of power pole, same elevation as tangent; rail spike	638.17
3.5	Rock, 0.2 mi S. of, thence 0.2 mi E.; 0.3 mi W. of T-rd. S.; near 1/4 cor. secs. 1 and 12, T. 13 S., R. 5 E.; 13 ft N. and 71 ft W. of BM "650"; 56 ft W. and 1 ft S. of gate in E.-W. right-of-way fence; 24 ft N. and 30 ft W. of center of E.-W. rd. at driveway S.; in concrete post; standard tablet stamped "TT 18 KW 1959 645"	645.351
3.5	Rock, 0.3 mi S. of, thence 0.2 mi E.; near S. 1/4 cor. SW. 1/4 sec. 1, T. 13 S., R. 5 E.; 15 ft E. of junction of E.-W. rd. at T-rd. S.; 11 ft N. of centerline of rd.; 11 ft S. of N. right-of-way fence; on iron post; standard cap stamped "ILL 1913 650" (leaning but solid)	649.254
4.6	U.E., 1.1 mi E. of tablet; 14 ft S. and 81 ft E. of rd. at trail S.; 5.1 ft higher than rd. at lane; on rock retainer of farmyard; painted square	712.19
5.3	U.E., 1.7 mi E. of tablet; 26 ft S. and 56 ft W. of T-rd. W.; 10.7 ft higher than T-rd.; on rock outcrop; chiseled square	630.33
6.5	Glendale, 2.9 mi S. and 3.5 mi E. of, T. 12 S., R. 5 E.; about 300 ft NW. of SW. cor. of sec. 36; 47 ft S. and 44 ft E. of N.-S. rd. at ford of Quarrel Creek; 8.3 ft above ford; on iron pipe; standard cap stamped "ILL 497"	497.125
7.4	Reference mark; 180 ft S. of tablet; 8 ft E. of rd. at culvert; on E. masonry retainer of culvert; chiseled square	596.70
7.5	Eddyville, 4.6 mi S. of, near cor. secs. 25, 30, 31, and 36, T. 12 S., Rs. 5 and 6 E.; 20 ft S. and 23 ft E. of centerline of T-rd. W.; 3 ft W. of telephone pole; 3 ft W. of right-of-way fence; in concrete post; standard tablet stamped "TT 17 KW 1959 606" (Note: BM is 1.3 ft higher than T-rd.)	605.993

LINE 6 (Cont'd.)

	<u>Feet</u>
8.1 U.E., 0.6 mi N. of tablet; 37 ft S. and 32 ft W. of rd. intersection; 0.9 ft higher than intersection of rd.; on E. side of heavy cor. post; rail spike	608.42
9.2 Glendale, 0.5 mi N. and 3.5 mi E. of; 3.0 mi SW. of Eddyville; near E. 1/4 cor. sec. 24, T. 12 S., R. 5 E.; 29 ft N. and 72 ft W. of T-rd. W.; in N. right-of-way fence; 3.3 ft higher than T-rd. W.; on iron post; standard cap stamped "ILL 515"	515.037
10.3 U.E., 1.1 mi W. of iron post; 24 ft N. and 24 ft W. of intersection of trail W. and bend in rd. to NW.; 0.8 ft lower than intersection; on W. edge of sidewalk to house; chiseled square	501.22
11.0 U.E., 0.5 mi N. and 1.2 mi W. of iron post; 11 ft S. and 79 ft E. of, and 1.6 ft higher than bridge at drain; 20.8 ft above drain; on E. end of S. concrete curb of bridge; chiseled square	416.11
11.9 U.E., 2.5 mi W. of iron post; center of State Highway 145 at drain; 19.7 ft above drain; chiseled square	407.43
13.2 "8 FWK 1959" (Described in line 3) (Also in line 4)	431.314

LINE 7.

By F. W. Krueger, 1960; Book CV 1188

0.0 U.E., 0.5 mi N. of BM "771"; center of rd. at driveway W.; copper nail and washer	729.17
0.7 U.E., 1.0 mi N. and 0.3 mi W. of iron post; center of rd. at drain; 27.3 ft higher than drain; rail spike	643.91
1.6 U.E., 2.0 mi N. and 1.0 mi W. of iron post; center of rd. at E.-W. timberline; rail spike	644.68
1.9 Reference mark; 0.2 mi SE. of tablet; 51 ft SE. and 15 ft NE. of bridge at Lusk Creek; 23.2 ft above Lusk Creek; on SE. concrete wingwall of bridge (same elevation as center of bridge); chiseled square	388.75

LINE 7 (Cont'd.)Feet

2.3	Eddyville, 1.5 mi S. and 2.0 mi E. of; near center sec. 16, T. 12 S., R. 6 E.; 71 ft NE. and 24 ft SE. (normal distances) from T-rd. NE.; 11 ft E. of pine tree with triangular blaze; 3.5 ft higher than T-rd.; in concrete post; standard tablet stamped "13 FWK 1960 473"	472.799
2.7	U.E., 0.75 mi N. and 1.0 mi W. of tablet; 1.5 mi NW. along State aid rd. from tablet; center of rd. at T-rd. NE.; rail spike	614.78
3.5	U.E., 1.2 mi N. and 1.5 mi W. of tablet; 25 ft S. and 80 ft W. of T-rd. NE.; 4.5 ft lower than T-rd.; on S. end of 30-in. iron pipe culvert;	627.01
3.9	Eddyville, in SE. 1/4 of sec. 6, T. 12 S., R. 6 E.; 610 ft NE. of hwy. junction along State Highway 145; 53 ft N. and 38 ft W. of center of hwy. at dim drive W.; 57 ft NW. of Highway 145; 3 ft E. of cor. post of T-fence W.; in concrete post; standard tablet stamped "TT 15 KW 1959 661"	661.403
3.8	Reference mark; 640 ft SW. of tablet, along State Highway 145; center of hwy. at State aid rd. SE.; chiseled square	656.37
4.4	U.E., 1.4 mi S. and 0.2 mi W. of tablet; center of concrete ford (N. one of two drains); chiseled square	475.58
5.1	Eddyville, 2.3 mi S. of; about 0.2 mi S. of 1/4 cor. secs. 18 and 19, T. 12 S., R. 6 E.; 550 ft N. of dim crossroads; 141 ft S. and 24 ft E. of center of dim T-rd. W.; 4 ft N. of telephone pole; in concrete post; standard tablet stamped "TT 16 KW 1959 526"	525.962
5.2	Reference mark; 500 ft S. of tablet; 22 ft N. and 12 ft E. of crossroads; 0.4 ft lower than crossroads; on E. masonry headwall of culvert; chiseled square	530.55
6.1	"ILL 515" (Described in line 6)	515.37

LINE 8.

By F. W. Krueger, 1960; Book CV 1188

0.0	"L 111 1935 (NGS)	364.734
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LINE 8 (Cont'd.)Feet

1.2	U.E., 1.2 mi S. along graveled rd. from disk; 8 ft N. and 13 ft E. of rd. at private rd. E.; on N. end of 12-in. concrete pipe culvert; (same elevation as rd. E.); chiseled square	389.50
<u>LINE 9.</u>		
5.5	U.E., 1.1 mi S. and 1.1 mi W. of tablet; 41 ft N. and 8 ft E. of bridge at drain; 1.2 ft lower than bridge; 7.9 ft above drain; on NE. concrete wingwall of bridge; chiseled square	343.44
6.8	Reference mark; 170 ft W. of tablet; 46 ft N. and 32 ft E. of, and 1.3 ft lower than intersection of rds. N., NE., and SW.; on E. end of 24-in. concrete pipe culvert; chiseled square	495.43
6.9	Temple Hill, in NE. cor. of town; in S. 1/2 sec. 11 T. 14 S., R. 5 E.; 180 ft E. of junction of rds. N., NE., and SW.; 12 ft S. and 37 ft W. of SW. cor. of Temple Hill Methodist Church; 3 ft N. of E.-W. fence; in concrete post; standard tablet stamped "TT 20 KW 1959 508" (Reported destroyed, 1970)	507.457
8.2	U.E., 1.3 mi S. of tablet; 8 ft S. and 17 ft E. of, and 0.2 ft lower than rd. at trail E.; 17 ft E. of at E.-W. timberline; on S. end of 12-in. concrete culvert; chiseled square	564.69
9.2	Temple Hill, 2.2 mi S. of, along graveled rd.; 0.25 mi S. of 1/4 cor. secs. 22 and 23, T. 14 S., R. 5 E.; 640 ft W. of T-rd. N.; 23 ft S. and 386 ft E. of center of E.-W. rd. at T-rd. S.; 3 ft N. and 1 ft W. of power pole; in concrete post; standard tablet stamped "TT 21 KW 1959 555"	554.527
9.1	Reference mark; 200 ft E. of tablet; 12 ft S. and 8 ft W. of rd. at private lane S. on W. end of 12-in. concrete pipe culvert; chiseled square	556.97
10.0	U.E., 0.8 mi S. of tablet; 12 ft S. and 8 ft E. of, and 0.3 ft lower than rd. at trail E.; on W. side of power pole; rail spike	503.08
10.7	U.E., 1.6 mi S. of tablet; 10 ft N. and 7 ft W. of, and 0.1 ft higher than bridge at drain; 8.0 ft above drain; on NW. cor. of wooden bridge deck; rail spike	451.73

LINE 9 (Cont'd.)Feet

11.7 Reference mark; 900 ft N. of tablet; 23 ft N. and 23 ft W. of crossroads; on W. end of 18-in. concrete culvert; chiseled square

561.67

LINE 10.

By F. W. Krueger, 1960; Book CV 1188

3.2 U.E., 1.2 mi S. along graveled rd. from tablet; 12 ft E. of, and 2.5 ft lower than rd. at drain; on E. end of 30-in. concrete pipe culvert; chiseled square

517.04

4.2 Bay City, 3.0 mi N. of; 4.15 mi S. of Golconda; on property of Amos Tanner; 59 ft N. of center of Golconda-Bay City Road; 3 ft S. of fence; 57 ft SW. of SW. cor. of barn; 88 ft SE. of SE. cor. of house porch of Amos Tanner; in concrete post; standard tablet stamped "TT 6 LJR 1953 516"

515.658

4.2 Reference mark; 220 ft SW. of tablet; 14 ft N. of rd. at drain; on N. end of 18-in. concrete pipe culvert; chiseled square

510.020

5.3 U.E., 1.0 mi SW. along graveled rd. from tablet; 15 ft N. of rd. at drain; 0.4 ft lower than rd. at culvert; on N. end of 60-in. concrete pipe culvert; chiseled square

363.32

6.6 U.E., 2.4 mi SW. along graveled rd. from tablet; 48 ft S. and 36 ft W. of, and 3.2 ft higher than T-rd. W.; on E. side of heavy gatepost; rail spike

343.22

7.8 Bay City, 3.9 mi N. of; 7.55 mi S. of Golconda; 93 ft E. and 3 ft S. of Y-rd. intersection; in middle of small grassy island; 11 ft S. of private rd. and 27 ft N. of Golconda to Bay City Road; in concrete post; standard tablet stamped "TT 5 LJR 1953 339" (Reported destroyed, 1962)

339.319

7.9 Reference mark; 200 ft SE. of tablet; 18 ft E. of center of rd. at culvert; on E. end of 30-in. concrete pipe culvert; chiseled square

334.68

8.5 U.E., 0.6 mi S. of tablet; 61 ft N. and 11 ft W. of, and 0.9 ft lower than bridge at drain; 4 ft N. and 11 ft W. of N. end of bridge on NW. masonry wingwall of bridge; chiseled square

328.90

LINE 10 (Cont'd.)Feet

9.5	U.E., 1.7 mi S. of tablet along graveled rd.; 10 ft N. and 6 ft E. of, and 0.3 ft lower than bridge at drain; 9.4 ft above drain; on NE. concrete wingwall of bridge; chiseled square	336.60
9.8	Bay City, 2.0 mi N. of; 11.45 mi S. of Golconda; about 0.2 mi E. of old Cave Springs School; near a rd. intersection; 80 ft NW. of fence corner; 28 ft S. and 41 ft W. of intersection of E.-W. rd. and lane S.; in concrete post flush with ground; standard tablet stamped "TT 4 LJR RESET 1963"	354.572
9.9	Reference mark; 120 ft W. of tablet; 12 ft S. of rd. at drain; on S. end of 30-in. concrete pipe culvert; chiseled square	353.22
10.8	U.E., 1.0 mi W. of tablet; 20 ft N. and 10 ft W. of, and 1.5 ft higher than rd. N. at T-fence E.; in SE. cor. of house yard; in E. side of power pole; rail spike	507.32
11.8	U.E., 2.0 mi W. of tablet; 12 ft N. of, and 2.1 ft lower than rd. at drain; on N. end of 18-in. concrete pipe culvert; chiseled square	564.72
12.7	Reference mark; 190 ft NE. of tablet; 13 ft N. and 25 ft E. of rd. at cattle pass; 6.7 ft above cattle run; 0.4 ft lower than rd.; on NE. cor. of pass at drain inlet; on top of concrete retainer; chiseled square	592.31
12.8	Rosebud, 1.2 mi SE. of; 5.0 mi NW. of Bay City; 0.25 mi S. of center of sec. 29, T. 14 S., R. 6 E.; 14 ft S. and 4.0 ft E. of E.-W. rd. at T-lane N.; 1.6 ft higher than T-lane; on iron post; standard cap stamped "586 ILL"	585.139
14.4	Rosebud, 1.7 mi S. of, thence 0.5 mi W.; 0.25 mi N. and 0.5 mi E. of cor. secs. 1, 6, 31, and 36, Ts. 14 and 15 S., Rs. 5 and 6 E.; 25 ft S. and 233 ft E. of E.-W. rd. at drive S.; 2 ft N. and 40 ft W. of cor. post of fences S.-W.; in concrete post; standard tablet stamped "TT 22 KW 1959 576"	576.192
14.4	Reference mark; 65 ft W. of tablet; 20 ft S. center of rd.; 2 ft N. of fence; in E. side of 36-in. oak tree; rail spike	578.20

HORIZONTAL CONTROL
NORTH AMERICAN DATUM OF 1927

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

37-088-31
BROWNFIELD QUADRANGLE
8 ILL.-109 KY.
N3715-W8830/15
DIAGRAM NJ 16-7
PADUCAH

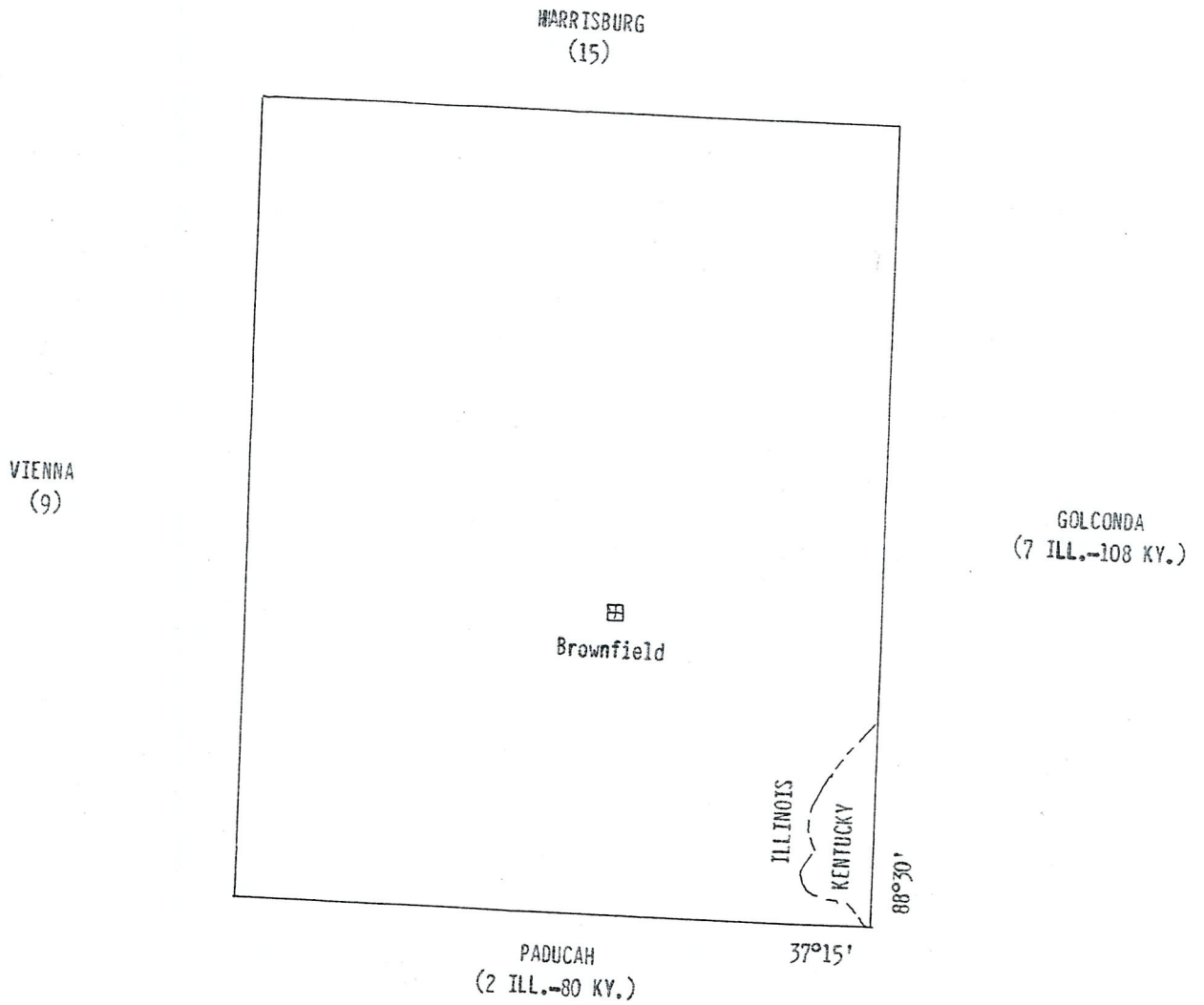
Johnson, Massac, and Pope Counties, Ill.;
Livingston County, Ky.

Edition of 5/26/76

PR: MLW/rmm

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

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



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.

INDEX OF PERMANENT MARKS

<u>MARK (USGS)</u>	<u>PAGE NO.</u>
339	5
586	5
754	4
771	4
461 ILL	5
340 TT	3
PTS NO 6 ILL 1913	3
PTS NO 9 ILL 1913	3
526 RESET 1940	5
TT 4 LJR RESET 1963	3
TT 5 LJR 1953	3
TT 6 LJR 1953	3
TT 7 LJR 1953	3
TT 10 MT 1957	4
TT 15 KW 1959	4
TT 16 KW 1959	4
TT 17 KW 1959	4
TT 18 KW 1959 645	4
TT 19 KW 1959	5
TT 20 KW 1959 508	5
TT 21 KW 1959	5
TT 22 KW 1959	5
<u>NGS</u>	
J 105 1935	6
L 111 1935	6

8 ILL.-109 KY.
BROWNFIELD QUADRANGLE

37-080-31
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 C. B. Kendall, 1913; Book A2765-2770

T. 13 S., R. 5 E.; 0.25 mi S. of NE. cor. sec. 26; 25 ft S. and 20 ft W. of intersection of rds.; 5 ft N. of corner of wire and rail fence; on iron post; standard cap stamped "PRIM TRAV STA NO 9 ILL 1913" (Reported destroyed)

KY S.) X = 1,166,068

Y = 386,950

37 21 40.90

88 37 11.20

T. 14 S., R. 6 E., 0.25 mi S. of NW. cor. sec. 35; 20 ft N. and 15 ft E. of crossroads; in corner of wire fence; on iron post; standard cap stamped "PRIM TRAV STA NO 6 ILL 1913" (Reported destroyed)

X = 1,191,445

Y = 348,522

37 21 40.90

(Reported destroyed)

Bay City, 2.0 mi N. of; 11.45 mi S. of Golconda; about 0.2 mi E. of old Cave Springs School; near rd. intersection; 80 ft NW. of fence corner; 28 ft S. and 41 ft W. of intersection of E.-W. rd. and lane S.; on property of Ralph Taylor; in concrete post flush with ground; standard tablet stamped "TT 4 LJR RESET 1963"

X = 1,191,353

Y = 348,557

37 15 28.60

88 31 43.00

Bay City, 3.9 mi N. of; 7.55 mi S. of Golconda; 93 ft E. and 9 ft S. of Y-rd. intersection; in middle of small grassy island; 11 ft S. of private rd.; 27 ft N. of Golconda to Bay City Rd.; in concrete post; standard tablet stamped "TT 5 LJR 1953" (Reported destroyed, 1962)

X = 1,192,103

Y = 357,877

37 15 28.45

88 31 44.23

Bay City, 5.0 mi N. of; 6.45 mi S. of Golconda; 0.8 mi S. of Transill; near E 1/2 cor. SW 1/4 sec. 15, T. 14 S., R. 6 E.; in NW. corner of junction of I-rd. W.; 67 ft N. of rd. W.; 22 ft W. of Golconda-Bay City Rd; on iron post; standard cap stamped "340 TT"

X = 1,189,101

Y = 362,165

37 17 01.26

88 31 38.26

Bay City, 7.3 mi N. of; 4.15 mi S. of Golconda, on property of Amos Tanner; 59 ft N. of center of Golconda-Bay City Rd.; 3 ft S. of fence; 57 ft SW. corner of barn; 88 ft SE. of SE. corner of house porch of Amos Tanner; in concrete post; standard tablet stamped "TT 6 LJR 1953"

X = 1,195,503

Y = 371,220

37 17 42.76

88 32 16.96

Golconda, 2.0 mi S. of; 9.45 mi N. of Bay City; 150 ft E. of Fairview School; 40 ft NE. of Golconda-Bay City Rd. on curve; 29 ft SW. of rd. to school; 21 ft E. of old rd. in front of school; in concrete post; standard tablet stamped "TT 7 LJR 1953"

X = 1,200,390

Y = 379,280

37 19 14.12

88 31 01.05

37 20 35.19

88 30 03.48

STATION DESCRIPTION
PLANE COORDINATES, FEET

LATITUDE
° ' "

LONGITUDE
° ' "

OBSOLETE MARKS (Cont'd.)

Golconda, 2.7 mi N. and 1.3 mi W. of; 763 ft E. of crossroads at $\frac{1}{4}$ cor. secs. 11 and 12, T. 13 S., R. 6 E.; 28 ft S. of centerline E.-W. blacktop rd.; 1 ft N. of fence; in concrete post; standard tablet stamped "TT 10 MT 1957"

KY S.) X = 1,199,282 Y = 400,783

37 24 07.39 88 30 24.96

Raum, 1.8 mi S. of; 125 ft S. and 300 ft E. of N. $\frac{1}{4}$ cor. NW. $\frac{1}{4}$ sec. 35, T. 12 S., R. 6 E.; 150 ft N. of residence of Joseph Robinson; in NE. angle of junction of private rd. E. at fence corner; on iron post; standard tablet stamped "771"

X = 1,195,999 Y = 414,209

37 26 19.13 88 31 10.51

Raum, 1.4 mi N. of, thence 0.5 mi E. of; 200 ft N. of S. $\frac{1}{4}$ cor. SE. $\frac{1}{4}$ sec. 11, T. 12 S., R. 6 E.; in NW. angle of junction of T-rd. W. at fenceline; 30 ft N. and 15 ft W. of dim T-rd. W.; on iron post; standard cap stamped "754"

X = 1,198,893 Y = 430,692

37 29 02.87 88 30 40.61

Eddyville, in SE. $\frac{1}{4}$ sec. 6, T. 12 S., R. 6 E.; 610 ft NE. of hwy. junction along State Highway 145; 53 ft N. and 38 ft W. of centerline of hwy. at dim drive W.; 57 ft NW. of Highway 145; 3 ft E. of corner post of T-fence W.; in concrete post; standard tablet stamped "TT 15 KW 1959"

X = 1,177,640 Y = 436,564

37 29 54.69 88 35 06.36

Eddyville, 2.3 mi S. of; about 0.2 mi S. of $\frac{1}{4}$ cor. secs. 18 and 19, T. 12 S., R. 6 E.; 550 ft N. of dim crossroads; 141 ft S. and 24 ft E. of center of dim T-rd. W.; 4 ft N. and 1 ft W. of telephone pole; in concrete post; standard tablet stamped "TT 16 KW 1959"

X = 1,176,532 Y = 425,232

37 28 02.36 88 35 15.87

Eddyville, 4.6 mi S. of; near cor. secs. 25, 30, 36 and 31, T. 12 S., Rs. 5 and 6 E.; 20 ft S. and 23 ft E. of center of T-rd. W.; 3 ft S. and 3 ft W. of telephone pole; 3 ft W. of right-of-way fence; in concrete post; standard tablet stamped "TT 17 KW 1959"

X = 1,172,859 Y = 414,379

37 26 14.01 88 35 57.35

Rock, 0.2 mi S. of, thence 0.2 mi E.; 0.3 mi W. of T-rd. S. near $\frac{1}{4}$ cor. secs. 1 and 12, T. 13 S., R. 5 E.; 13 ft N. and 71 ft W. of "BM 650"; 56 ft W. and 1 ft S. of gate in E.-W. right-of-way fence; 24 ft N. and 30 ft W. of centerline of E.-W. rd. at driveway S.; in concrete post; standard tablet stamped "TT 18 KW 1959 645"

X = 1,167,777 Y = 404,309

37 24 32.97 88 36 56.55

STATION DESCRIPTION
PLANE COORDINATES, FEET

LATITUDE
° ' "

LONGITUDE
° ' "

OBSOLETE MARKS (Cont'd.)

Rock, 2.2 mi S. of; 2.8 mi NW. of Brownfield; near cor. secs. 13, 14, 23 and 24, T. 13 S., R. 5 E.; 32 ft N. and 543 ft W. of center of State Highway 146 at I-rd. S.; 2 ft S. and 1 ft E. of telephone pole; 2 ft S. of right-of-way fence; in concrete post; standard tablet stamped "TT 19 KW 1959"	X = 1,165,728 Y = 393,800	37 22 48.49	88 37 17.97
Brownfield, 0.2 mi SE. of; near W. 1/4 SE. 1/4 sec. 36, T. 13 S., R. 5 E., at N. concrete abutment of steel bridge over Big Bay Creek; 35 ft N. and 8 ft W. of center of bridge; in top of W. end of bridge seat; standard tablet stamped "339"	X = 1,170,036 Y = 379,938	37 20 32.79	88 36 19.43
Temple Hill, in NE. corner of town; in S. 1/2 sec. 11, T. 14 S., R. 5 E.; 180 ft E. of junction of rds. N., NE. and SW.; 12 ft S. and 37 ft W. of SW. corner of Temple Hill Methodist Church; 3 ft N. of E.-W. fence; in concrete post; standard tablet stamped "TT 20 KW 1959 508" (Reported destroyed, 1970)	X = 1,162,935 Y = 367,636	37 18 29.07	88 37 42.69
Temple Hill, 2.2 mi S. of, along graveled rd.; 0.25 mi S. of 1/4 cor. secs. 22 and 23, T. 14 S., R. 5 E.; 640 ft W. of I-rd. N.; 23 ft S. and 386 ft E. of center of E.-W. rd. at I-rd. S.; 3 ft N. and 1 ft W. of power pole; in concrete post; standard tablet stamped "TT 21 KW 1959"	X = 1,160,131 Y = 358,107	37 16 54.05	88 38 13.77
Rosebud, 1.7 mi S. of, thence 0.5 mi W.; 0.25 mi N. and 0.5 mi E. of cor. secs. 1, 6, 31 and 36, Tps. 14 and 15 S., Rs. 5 and 6 E.; 25 ft S. and 233 ft E. of centerline of E.-W. rd. at drive S.; 2 ft N. and 40 ft W. of corner post of fences S. and W.; in concrete post; standard tablet stamped "TT 22 KW 1959"	X = 1,172,534 Y = 346,637	37 15 04.41	88 35 36.11
Rosebud, 1.2 mi SE. of; 5.0 mi NW. of Bay City; 0.25 mi S. of center sec. 29, T. 14 S., R. 6 E.; 15 ft S. and 4 ft E. of centerline of E.-W. rd. at dim rd. N.; on iron post; standard cap stamped "586"	X = 1,178,011 Y = 351,672	37 15 55.80	88 34 30.25
Simpson, 1.1 mi E. of, along blacktop rd.; in NW. 1/4 sec. 23, T. 12 S., R. 4 E.; 82 ft S. and 57 ft E. of I-rd. S.; 3 ft E. of telephone pole; on iron pipe; standard cap stamped "461 ILL"	X = 1,131,508 Y = 425,023	37 27 46.56	88 44 33.99
Simpson, 1.1 mi E. of, thence 3.5 mi S. of; 0.25 mi E. of I-rd. N. near cor. secs. 1, 2, 35 and 36, Tps. 12 and 13 S., R. 4 E.; 30 ft S. and 26 ft E. of center of I-rd. S.; 2 ft S. of corner post of fence S. and E.; in concrete post; standard tablet stamped "526 RESET 1940"	X = 1,136,443 Y = 410,509	37 25 24.67	88 43 27.14

8 ILL.-109 KY.
BROWNFIELD QUADRANGLE

37-088-31
6

STATION DESCRIPTION
 PLANE COORDINATES, FEET

LATITUDE
° ' "

LONGITUDE
° ' "

OBSOLETE MARKS (Cont'd.)

Grantsburg; on State Highway 146; at steel bridge over Bay Creek; 12 ft N. of centerline of hwy.; 11 ft N. and 62 ft E. of center of bridge; in top of N. side of E. retaining wall; NGS standard disk stamped "J 105 1935"

KY S.) X = 1,129,909 Y = 398,920 37 23 28.10 88 44 43.55

Round Knob, about 1.6 mi N. along I.C. RR. from station, near center sec. 26, T. 14 S., R. 4 E.; 91 ft S. and 48 ft E. of center of N.-S. rd. at RR. crossing; 1 ft W. of right-of-way fence; in concrete post; NGS standard disk stamped "L 111 1935"

 X = 1,130,737 Y = 355,741 37 16 21.63 88 44 16.38