

UNITED STATES DEPARTMENT OF THE INTERIOR

Harold L. Ickes, Secretary

GEOLOGICAL SURVEY

W. E. Wrather, Director

---

Bulletin 930-D

---

# SPIRIT LEVELING IN ILLINOIS

## 1896-1942

### PART 4. NORTHERN ILLINOIS

---

Prepared in cooperation with the  
STATE OF ILLINOIS  
DEPARTMENT OF REGISTRATION AND EDUCATION  
GEOLOGICAL SURVEY DIVISION



UNITED STATES  
GOVERNMENT PRINTING OFFICE  
WASHINGTON : 1943



## CONTENTS

	Page
Introduction.....	1283
Scope of report.....	1283
Classification of leveling.....	1283
Adjustments.....	1284
Bench marks.....	1284
Preservation and restoration of bench marks.....	1287
Datum.....	1287
Location of the area.....	1288
Index map.....	1288
Diagrams of quadrangles showing routes of leveling.....	1288
Cooperation.....	1288
Personnel.....	1288
Related publications.....	1289
Descriptions of bench marks (arranged by quadrangles in alphabetical order).....	1290
Supplemental elevations in northern Illinois.....	1688
Index.....	1695

## ILLUSTRATIONS

	Page
PLATE 1. Standard Geological Survey bench marks.....	1286
2. Outline map of Illinois showing the net of first- and second-order leveling.....	1286
9. Outline map of Illinois showing the names and relative position of the four sections covered by the parts of Bulletin 930. ....	1286
10. Index map of northern Illinois showing the quadrangles into which this section of the State has been divided.....	1286
FIGURES 213-281. Diagrams showing lines of leveling in each quadrangle in northern Illinois.	



# SPIRIT LEVELING IN ILLINOIS, 1896-1942

---

## PART 4. NORTHERN ILLINOIS

---

### INTRODUCTION

*Scope of report.*—This bulletin, which for convenience is to be published in four parts, contains the results of all spirit leveling done by the Geological Survey in Illinois, including those heretofore published. (See p. 1289.) Each of the parts deals with one of four sections into which the State has been divided for this purpose and which have been designated southern, east-central, west-central, and northern Illinois. In each part, descriptions of the points for which figures of elevation have been determined are listed according to the quadrangles in which the points occur. In addition to the results of leveling by the Geological Survey the bulletin includes leveling by the State Geological Survey and by the Civil Works Administration.

*Classification of leveling.*—Spirit leveling is classified according to the degree of refinement in the instruments and methods used and according to the closure errors.

First-order leveling<sup>1</sup> consists of leveling done with the most improved instruments, all sections being leveled twice, in opposite directions, under varying conditions. Closures are not allowed to exceed the amount in feet represented by the formula

$$0.017\sqrt{\text{length of section in miles}}$$

All corrections for rod error, temperature, and unbalanced sights are applied, as well as the orthometric corrections for convergence toward the poles of level surfaces of different elevations.

Second-order leveling, according to regulations of the Geological Survey, comprises lines leveled twice with reliable instruments, though not necessarily of the most improved type. Closures are not allowed to exceed

$$0.035 \sqrt{\text{length of section in miles.}}$$

Third-order leveling is made up of lines that are run, either with first-order equipment or with an engineer's wye level and rods of the

---

<sup>1</sup> See Avers, H. G., *Manual of first-order leveling*; U. S. Coast and Geodetic Survey Special Pub. 140, 1929.

New York type, in single-line circuits that are required to close within the limits, in feet, of

$$0.05\sqrt{\text{length of circuit in miles.}}$$

This is equivalent to

$$0.071\sqrt{\text{length of section in miles}}$$

if the line is leveled twice.

All leveling done by the Geological Survey in Illinois is of third-order accuracy except as otherwise stated.

*Adjustments.*—The adjustment of a net of leveling begins with the first-order lines. Most of these lines in both the United States and Canada have already been combined in a general net, and the orthometric differences derived from the observed values by correction for the convergence of level planes toward the north have been adjusted by least squares to remove accidental closure errors. The latest adjustment of this kind was made in 1929 by the Coast and Geodetic Survey and is known as the "1929 general adjustment of first-order leveling." This adjustment included the first-order lines in Illinois (pl. 2), and the elevations thus derived are the fundamental references for elevations determined by second- and third-order nets. The third-order leveling of the Geological Survey in Illinois has been adjusted by determining weighted mean elevations for new junction points and prorating the errors of each link. The weights are taken as the reciprocals of lengths of links. The third-order net has thus been brought into agreement with the best information available for the results of the fundamental first-order leveling, although the published figures of elevation may be changed slightly by future adjustments of the level net.

*Bench marks.*—The bench marks used by the Geological Survey (pl. 1) are of two general classes—principal and supplementary. Principal bench marks are placed at more or less regular intervals along a level line, at sites offering them protection from disturbance and affording favorable conditions for their future recovery. They are usually bronze or aluminum tablets, iron posts with bronze caps, or copper bolts.

The tablets (A, B, and C, pl. 1) are circular in shape, measure  $3\frac{7}{8}$  inches in diameter, and taper from a thickness of three-eighths of an inch at the center to about a quarter of an inch near the rounded edge. In the earlier years of the Survey's leveling, many of the tablets were made of aluminum. They were light in weight and easily transported. The softness of this metal, however, made them susceptible to damage, so that aluminum as a material for

tablets was eventually discarded. The earliest tablets were made of bronze, which is the material now specified for standard tablets. Each tablet is cast with a 3-inch shank extending from the center of its reverse side, by means of which it is held in place, and each bears an inscription on its face. The inscriptions on the existing tablets differ in many details, because of changes in design at various times. The face of every tablet, however, is cast with the words "U. S. Geological Survey" and "Elevation above sea" and with a large or small cross at the center, which indicates the fiducial point for position or elevation. On some tablets the inscription indicates that they were set in connection with a project in which a State or other organization cooperated; on some, the inscription includes a triangle, which signifies a located point, enclosing a small cross at the center. Tablets bearing a triangle enclosing a cross may be used not only as bench marks but also as triangulation- or traverse-station marks. The inscription on most of the existing principal bench marks includes the warning "250 dollars fine for disturbing this mark," but the latest design omits this phrase and adds the sentence "For information write the Director, Washington, D. C."

If a tablet is set to mark a transit-traverse station, the traverseman stamps upon it with steel dies letters indicating this use of it, such as "Prim Trav Sta," "P T S," or "T T," as well as his own identifying letter or letters, the serial number of the station, and the year. If a tablet is set as a bench mark, the levelman stamps it with his identifying letter or letters, the serial number of the bench mark, and the year. He may at the same time stamp upon it the figures of elevation to the nearest foot, or these figures may be added later. A tablet may be used both as a traverse-station mark and as a bench mark. The engineer who establishes the mark stamps it as noted above and records the stamping with the description to facilitate identification. Engineers who use the mark in subsequent surveys do not alter the original stamping nor add their own stampings with the exception of figures of elevation.

The figures of elevation that appear on a tablet are usually those determined by field computation only. It is sometimes found, therefore, that they do not represent the latest information. This has happened either because they refer to some independent datum temporarily adopted before first-order trunk lines made standard datum available, or because a later adjustment made in the office has rendered necessary an appreciable change in the figures as determined in the field. It is assumed that engineers and others who require accurate figures of elevation for the marks will use those printed in the bulletin instead of accepting the stamped figures. If the appropriate bulletin is not conveniently accessible, a request for the desired

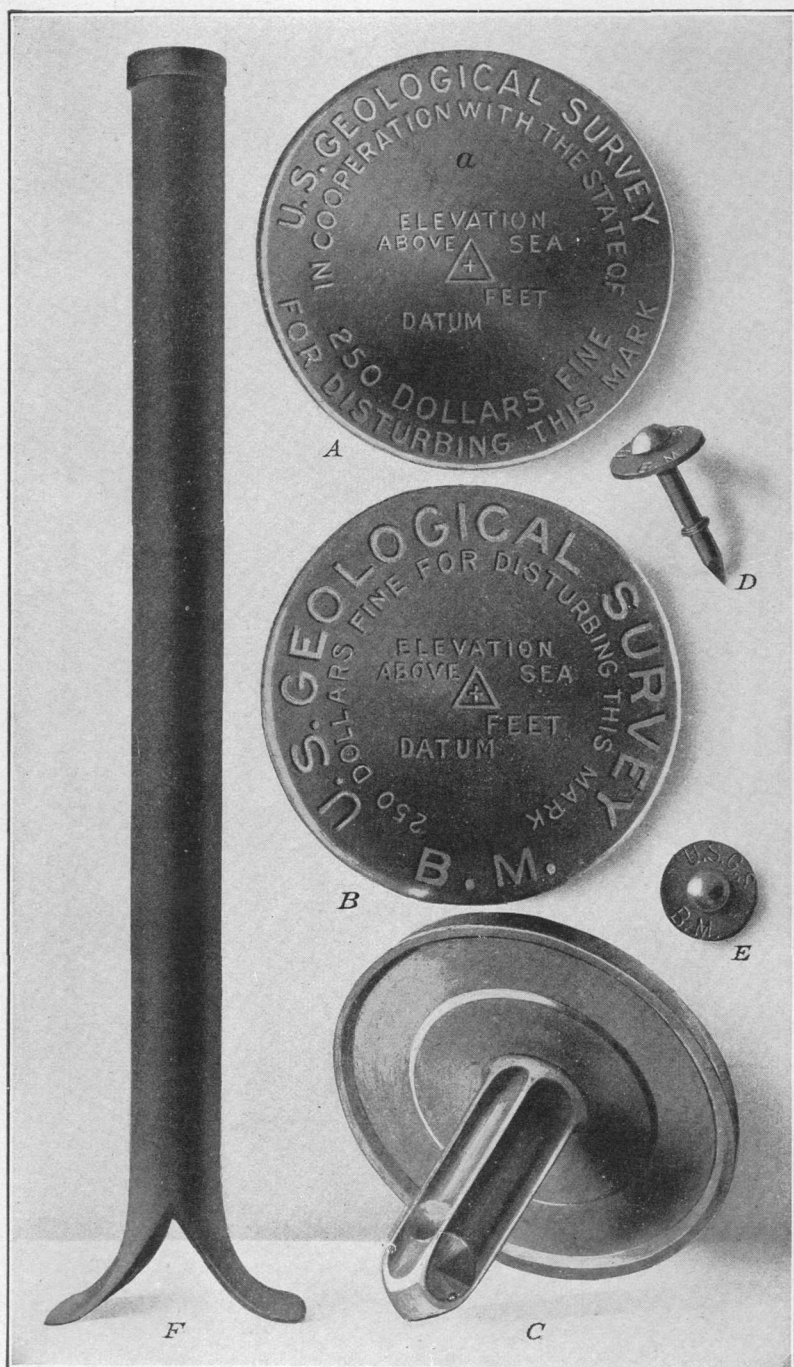
information may be addressed to the Director of the Geological Survey, United States Department of the Interior, Washington, D. C.

The tablet, of whatever style, is cemented into a hole drilled in solid rock or in the wall of a public building, bridge abutment, or other masonry structure. Where masonry or rock is not available the tablet is set in the top of a reinforced concrete post, which may be either precast or mixed and molded at the selected site. The posts are about 8 inches square or 8 inches in diameter at the top and larger at the base. They are generally set so as to project about 6 inches above ground and are made sufficiently long to reach below the frost line.

The second form of principal bench mark (F, pl. 1), for use where masonry or rock is not available, consists of a hollow wrought-iron post to the top of which is riveted a bronze cap bearing the same general inscriptions as the tablets. These iron posts measure 4 feet in length and  $3\frac{1}{2}$  inches in outer diameter and are set about 3 feet in the ground. The bottom of the post spreads out to a width of about 10 inches in order to give it a firm footing in the earth. Few iron posts have been set since 1920. They have proved impracticable, as they are easily disturbed and are eventually destroyed by rust at the ground level.

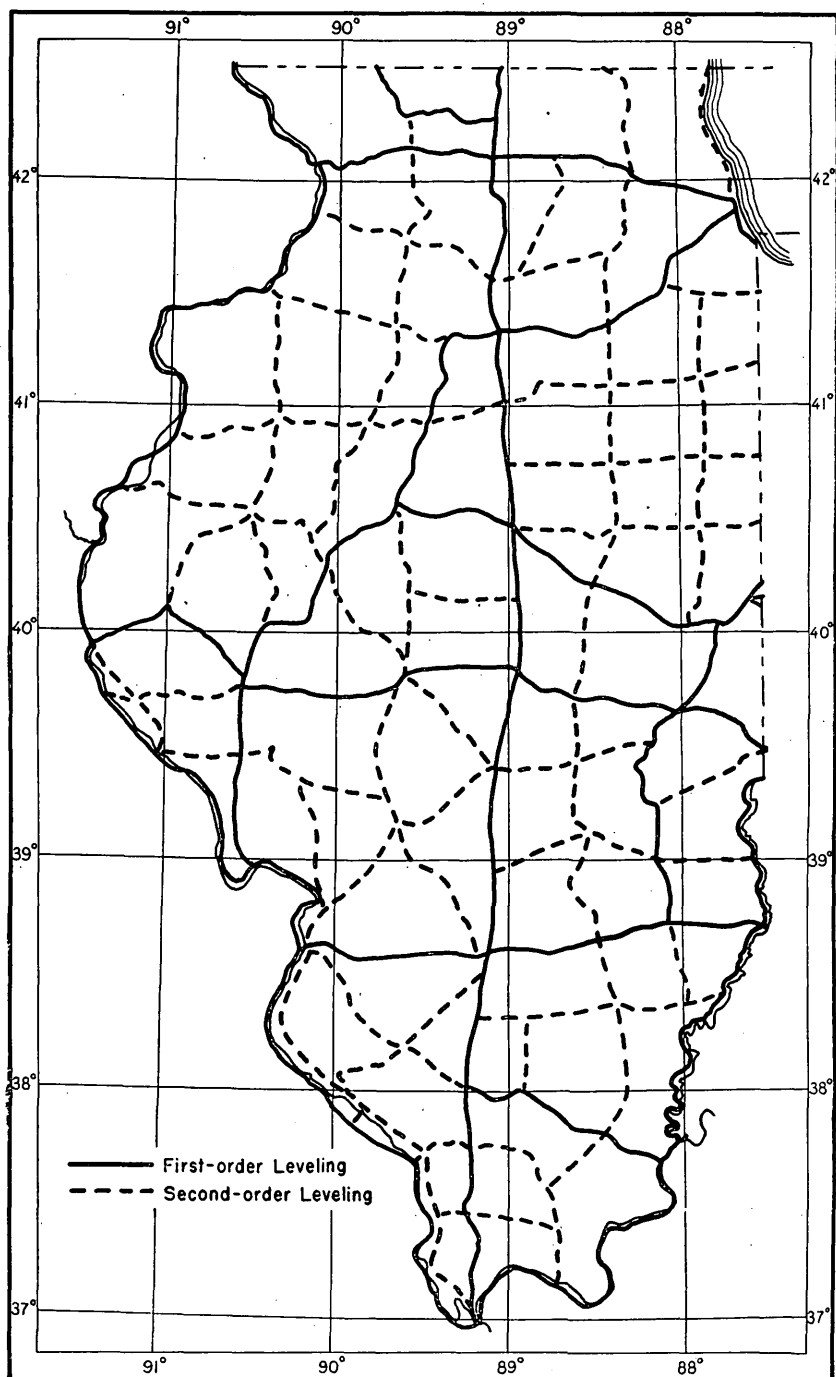
The third form of principal bench mark is a copper bolt designated to be wedged into a drill hole in rock or masonry and further secured with lead or cement. This bolt measures 4 inches in length and 1 inch in diameter and has a slot at the bottom end into which fits a brass wedge. The wedge serves to expand the lower part of the bolt so that after the bolt has been driven nearly its full length into the hole it cannot be easily removed. The exposed end of the bolt bears an appropriate inscription, stamped upon it with steel dies. The inscription is made of the letters "U S G S," the letters indicating the datum used, the figures of elevation, and the abbreviated word "Ft." This form of bench mark has not been extensively used.

The principal bench mark used on Civil Works Administration projects is a bronze disk similar to the standard tablet used by the Geological Survey. The disk is 3 inches in diameter and has a  $2\frac{1}{2}$ -inch shank. Near the center of the convex face of the disk is a small indentation which bisects a grooved line  $1\frac{1}{8}$  inches long. The indentation serves as the fiducial point for position on transit-traverse surveys. The line, which lies in a horizontal plane when the disk happens to be set vertically in the walls of structures, is the fiducial line for which figures of elevation are determined by spirit leveling. The disk is cast with the inscription "U. S. Coast & Geodetic Survey and State Survey Station No      Elevation      Feet." Figures indicating the serial number of the station and the elevation are stamped in the appropriate spaces at the time the surveys are made.

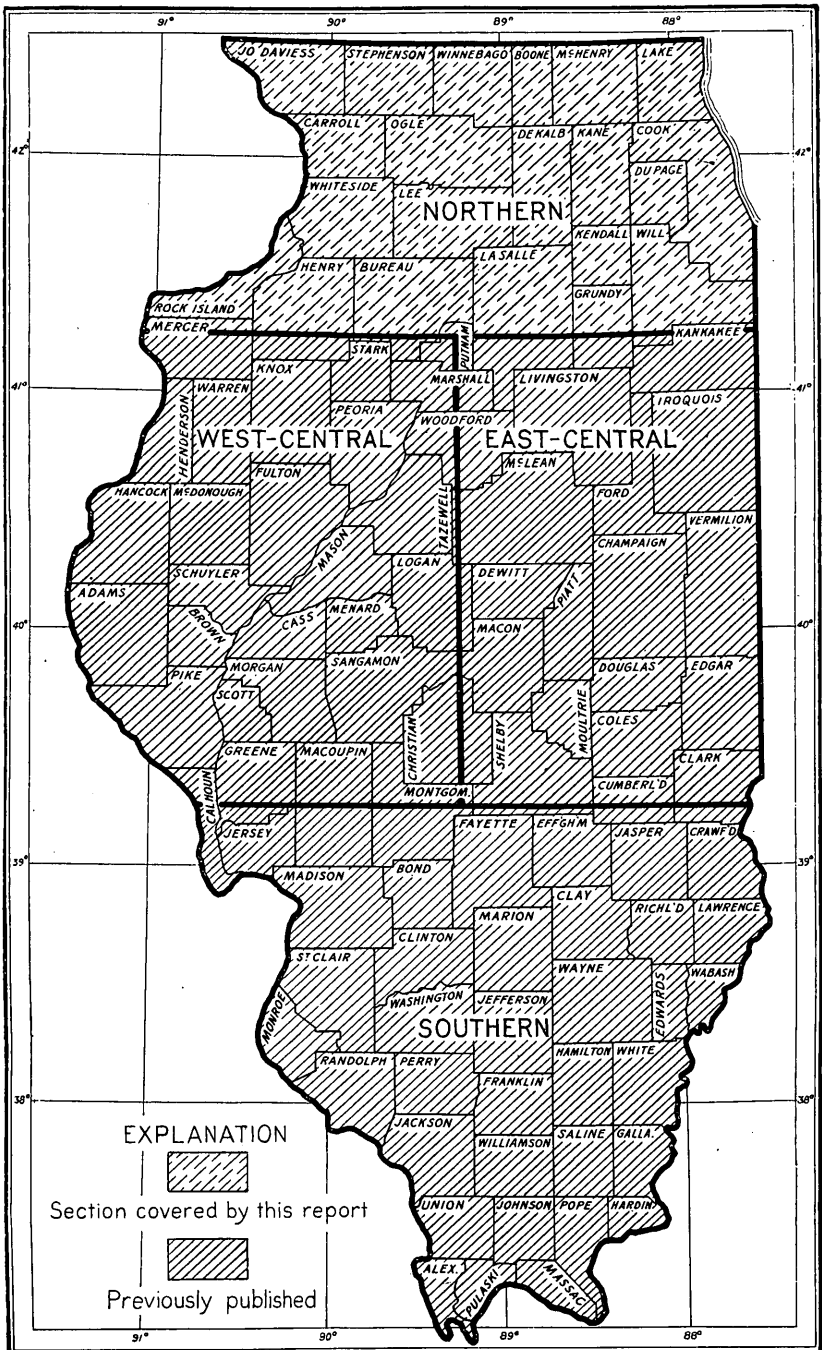


STANDARD GEOLOGICAL SURVEY BENCH MARKS.

*A* and *B*, Standard tablets, principal bench marks, used where masonry or rock is available to hold them. *A* is used in cooperating States; the State name is inserted at *a*. *C*, Under side of *A* and *B*, showing shank used to hold tablet in place. *D* and *E*, Two views of copper nail and copper washer, a supplementary bench mark, used for points lying between those marked by standard tablets. *F*, Standard iron post fitted with bronze cap similar in design to the standard tablet, formerly used where no rock or masonry was available; superseded by concrete post with tablet set in top.



OUTLINE MAP OF ILLINOIS SHOWING THE NET OF FIRST- AND SECOND-ORDER LEVELING.



OUTLINE MAP OF ILLINOIS SHOWING THE NAMES AND RELATIVE POSITION OF THE FOUR SECTIONS COVERED BY THE PARTS OF BULLETIN 930.



INDEX MAP OF NORTHERN ILLINOIS SHOWING THE QUADRANGLES INTO WHICH THIS SECTION OF THE STATE HAS BEEN DIVIDED.

Supplementary or auxiliary bench marks are less formal in design and are placed between the principal bench marks. They are of many kinds. One kind consists of a copper nail  $1\frac{1}{2}$  inches long supplied with a copper washer seven-eighths of an inch in diameter (D and E, pl. 1). The nail is driven into the root of a tree or cemented into rock. The designation "U S G S B M" is stamped on each washer, and on some washers the abbreviation of the name of the cooperating State is added. Another kind of supplementary bench mark is a chiseled square, used on the horizontal surface of a rock or masonry structure, or a chiseled cross, used on a vertical surface. Nails, track spikes, and small capped iron pipes also serve as supplementary bench marks, and easily described points, such as doorsills and tops of hydrants, are occasionally used.

*Preservation and restoration of bench marks.*—Any person who finds that a principal bench mark has been damaged, disturbed, or destroyed, or that it should be reset or redescribed on account of highway or other improvements will render a public service by communicating the facts to the Director, Geological Survey, United States Department of the Interior, Washington, D. C., before taking any action affecting the location or elevation of the mark. A proper form, accompanied by a return-addressed, franked envelope, will be sent for use in reporting the action taken and in recording the revised description of the mark, if any, and the notes made in obtaining the revised elevation.

*Datum.*—All elevations determined by the Geological Survey and those determined by the Coast and Geodetic Survey for inland mapping are referred to mean sea level, which is the level that the sea would assume if the influence of winds, tides, and currents were eliminated. This level is not the elevation determined from the mean of the highest and lowest tides, nor is it the half sum of the mean of all the high tides and the mean of all the low tides, which is called the half-tide level. *Mean sea level is the average height of the water, all stages of the tide being considered.* It is determined from observations made by means of tidal gages placed at stations where local conditions, such as those due to long, narrow bays, rivers, and like features, will not affect the height of the water. To obtain even approximately correct results these observations must extend over at least one lunar month, and if accuracy is desired they must extend over several years. At ocean stations the half-tide level and the mean sea level usually differ but little. It is assumed that there is no difference between the mean sea levels determined from observations made in the Atlantic Ocean, the Gulf of Mexico, and the Pacific Ocean.<sup>2</sup>

<sup>2</sup> See Jones, E. L., *Hypsometry—Use of mean sea level as the datum for elevations*: U. S. Coast and Geodetic Survey Special Pub. 41, 1917; *Manual of tide observations*: U. S. Coast and Geodetic Survey Special Pub. 196, 1935.

*Location of the area.*—Northern Illinois, as the term is used in this bulletin and as the subject of part 4 of the bulletin, is that section of the State lying north of latitude  $41^{\circ}15'$  (see pl. 9).

*Index map.*—The accompanying index map of northern Illinois (pl. 10) shows the relative position of the quadrangle areas in which leveling has been done. A quadrangle is the unit of topographic survey adopted by the Geological Survey for mapping purposes. All the quadrangles referred to in listing the results of leveling in northern Illinois measure 15 minutes in latitude by 15 minutes in longitude.

Topographic maps of quadrangles in northern Illinois for which surveys have been completed may be purchased at 10 cents each retail or 6 cents each in lots of 50 or more. Prepayment is required and may be made by money order, payable to the Director of the Geological Survey, or in cash—the exact amount, at sender's risk. Postage stamps should not be sent.

*Diagrams of quadrangles showing routes of leveling.*—At the beginning of the list of bench mark descriptions for each quadrangle is a diagram showing the routes followed by the lines of leveling in and immediately adjacent to the quadrangle. To aid in identifying these routes, the boundaries of the townships and ranges in the quadrangles are indicated by light dashed lines and the designations of these land subdivisions are given on the margin. Some of the principal settlements are also shown. The solid lines represent the routes of third-order leveling. To each of these is assigned a number, and the same number is assigned to the list of descriptions of bench marks along that route.

*Cooperation.*—Since 1906 equal allotments of funds for topographic surveys including leveling have been made from Federal and State sources. The cooperating agency in Illinois is the State Geological Survey Division, Department of Registration and Education. All principal bench marks established by the Geological Survey since the beginning of the cooperative agreement are stamped with the full or abbreviated State name.

*Personnel.*—The leveling of the Geological Survey in northern Illinois was done under the supervision of the several chief geographers or chief topographic engineers who were in administrative charge of the topographic branch during the years when the lines were run. Leveling by the State Geological Survey was under the supervision of the State geologist. Recent leveling on Civil Works Administration projects was under the supervision of the chief of the State Geological Survey Division, Department of Registration and Education. The name of the levelman who ran a particular line and the date when it was run immediately follow the designation of the route of that line and form part of the heading that precedes the descriptions of bench

marks. The adjustment of the third-order level net, which included the adjustment of the recent leveling and readjustment of the earlier work, was made by S. R. Archer, associate engineer. The correlation and compilation of the descriptions and figures of elevation of the bench marks and assembling of the lists were done by R. G. Clinite, associate geodetic engineer, under the supervision of R. M. Wilson, chief of the section of computing, under the general direction of J. G. Staack, chief topographic engineer.

*Related publications.*—(1) Earlier publications on spirit leveling in Illinois issued by the Geological Survey are as follows:

Triangulation and spirit leveling, Illinois: U. S. Geol. Survey 18th Ann. Rept., pt. 1, pp. 324–325, 1897.

Triangulation and spirit leveling, Illinois: U. S. Geol. Survey 19th Ann. Rept., pt. 1, pp. 256–257, 1898.

Results of spirit leveling in Illinois, 1896 to 1908, inclusive: U. S. Geol. Survey Bull. 421, 74 pp., 1910.

Results of spirit leveling in Illinois, 1909 and 1910; U. S. Geol. Survey Bull. 493, 115 pp., 1911.

Results of spirit leveling in Illinois, 1911 to 1913, inclusive: U. S. Geol. Survey Bull. 553, 110 pp., 1914.

Results of spirit leveling in Illinois, 1914 to 1917, inclusive: U. S. Geol. Survey Bull. 672, 108 pp., 1918.

(2) For additional leveling in quadrangles which overlap adjoining States, see the following Geological Survey publications:

Bull. 555, Results of spirit leveling in Indiana, 1913.

Bull. 569, Results of spirit leveling in Iowa, 1915.

Bull. 570, Results of spirit leveling in Wisconsin, 1914.

# DESCRIPTIONS OF BENCH MARKS

## AMBOY QUADRANGLE

[Latitude 41°30'–41°45'; longitude 89°15'–89°30']

## BUREAU AND LEE COUNTIES

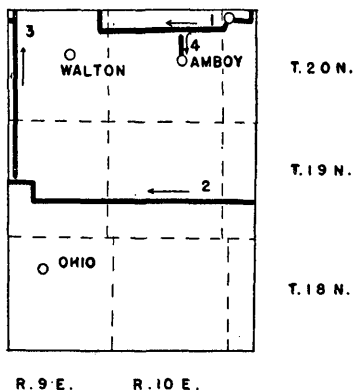


FIGURE 213.—Lines of leveling in Amboy quadrangle.

1. From point 0.2 mile north and 1.3 miles east from Lee Center along roads alternately south and west to road junction 1.6 miles north and 4.3 miles west from Amboy, thence north 0.9 mile to point 1.6 miles south of Eldena. (by H. S. Senseney in 1916)

[Continued from Dixon quadrangle, line 3]

Lee Center, 1.3 mi. E. of, near S $\frac{1}{4}$ cor. sec. 5, T. 20 N., R. 11 E., 25 ft. N. and 20 ft. E. from rd. junction; standard iron post with bronze cap stamped "Prim Trav Sta No 41 1911 776" (recovered in 1930)-----	775.626
Lee Center, near Lee Center Public School, in NW. angle of crossroads, on NE. corner of base of pump; chiseled square-----	798.80
Lee Center, 0.9 mi. SW. of, near W $\frac{1}{4}$ cor. sec. 7, T. 20 N., R. 11 E., at junction of rd. W., on E. side of rd., in root of tree; copper nail and washer-----	790.96
Lee Center, 0.9 mi. SW. thence 1.5 mi. W. from, 1.6 mi. N. thence 0.8 mi. E. from Amboy, near center of sec. 11, T. 20 N., R. 10 E., 20 ft. S. and 40 ft. W. from crossroads; standard iron post with bronze cap stamped "783" (recovered in 1936)-----	782.175
Reference mark, in SW. angle of crossroads, in root of tree; copper nail and washer-----	781.40
Amboy, 1.6 mi. N. of, 0.25 mi. E. of center of sec. 10, T. 20 N., R. 10 E., in SE. angle of crossroads, in root of tree; copper nail and washer--	779.14
Amboy, 1.6 mi. N. thence 0.8 mi. W. from, near E $\frac{1}{4}$ cor. sec. 9, T. 20 N., R. 10 E., in SW. angle of crossroads, in root of tree; copper nail and washer-----	785.56

Amboy, 1.6 mi. N. thence 1.8 mi. W. from, near E $\frac{1}{4}$ cor. sec. 8, T. 20 N., R. 10 E., on W. side of rd., 200 ft. N. of Illinois Central R. R. crossing, in root of tree; copper nail and washer-----	Feet 782.14
Amboy, 1.6 mi. N. thence 2.8 mi. W. from, near E $\frac{1}{4}$ cor. sec. 7, T. 20 N., R. 10 E., 20 ft. N. and 25 ft. W. from crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 42 1911 782"-----	781.302
Amboy, 2.1 mi. N. and 4.3 mi. W. from, 2.0 mi. S. of Eldena, near N $\frac{1}{4}$ cor. sec. 12, T. 20 N., R. 9 E., 60 ft. S. of junction of rd. W., on E. side of rd., in root of tree; copper nail and washer-----	776.21

[Continued in Dixon quadrangle, line 4]

2. From point 2 miles south and 1.3 miles west from Sublette generally west along roads to point 5 miles north and 4.8 miles east from Walnut (by G. W. Moore in 1930)

[Continued from Mendota quadrangle, line 2]

Sublette, 2.0 mi. S. thence 2.0 mi. W. from, near SE. cor. sec. 19, T. 19 N., R. 11 E., in NW. angle of crossroads, on N. head wall of concrete culvert under E.-W. rd.; chiseled square-----	869.71
T. 19 N., R. 11 E., near N $\frac{1}{4}$ cor. sec. 30, 30 ft. S. and 30 ft. E. from crossroads, in root on N. side of 42-in. maple tree; copper nail and washer-----	872.92
T. 19 N., R. 10 E., 0.25 mi. E. of N $\frac{1}{4}$ cor. sec. 25, 150 ft. W. of N.-S. line fence, 25 ft. S. of rd., in root on NW. side of 24-in. elm tree; copper nail and washer-----	896.61
T. 19 N., R. 10 E., near NW. cor. sec. 25, 25 ft. S. and 40 ft. E. from crossroads, in concrete post; aluminum tablet stamped "Prim Trav Sta No 112 S 1922"-----	872.433
Reference mark, 130 ft. E. of tablet, on top of W. end of S. curb of steel bridge; chiseled square-----	867.68
T. 19 N., R. 10 E., near SW. cor. sec. 23, 350 ft. E. of N.-S. line fence, 30 ft. N. of rd., in yard, 85 ft. S. of SW. corner of farmhouse, in root on S. side of 20-in. maple tree; copper nail and washer-----	883.22
T. 19 N., R. 10 E., near S. cor. secs. 21 and 22, 30 ft. N. of rd., in line with center line of T.-rd. S., in fence corner, in root on S. side of 36-in. maple tree; copper nail and washer-----	903.69
T. 19 N., R. 10 E., near NW. cor. sec. 28, 25 ft. S. and 60 ft. E. from crossroads, in concrete post; aluminum tablet stamped "P T Sta No 113 S 1922"-----	914.343
Reference mark, 25 ft. N. and 210 ft. W. from crossroads, in root on S. side of 22-in. willow tree; copper nail and washer-----	912.14
T. 19 N., R. 10 E., near NW. cor. sec. 29, 30 ft. S. and 175 ft. E. from crossroads, in root on NE. side of 27-in. willow tree; copper nail and washer-----	882.77
T. 19 N., R. 10 E., near NW. cor. sec. 30, 25 ft. S. and 40 ft. E. from crossroads, 5 ft. N. and 10 ft. E. from fence corner, on large boulder; chiseled square-----	855.28
T. 19 N., R. 9 E., 0.21 mi. W. of E. cor. secs. 24 and 25, 200 ft. E. of N.-S. line fence, on E. end of N. railing of large concrete bridge culvert; chiseled square-----	816.75
T. 19 N., R. 9 E., near SW. cor. sec. 24, 3.5 mi. N. and 2.3 mi. E. from Ohio, 25 ft. N. and 50 ft. E. from crossroads, in concrete post; aluminum tablet stamped "P T Sta No 114 S 1922"-----	847.140

# 1292 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Reference mark, 100 ft. W. of tablet, 30 ft. N. and 50 ft. W. from crossroads, in root on SW. side of 34-in. cottonwood tree; copper nail and washer-----	<i>Feet</i> 844.37
Ohio, 3.5 mi. N. and 1.3 mi. E. from, near NE. cor. sec. 27, T. 19 N., R. 9 E., 25 ft. S. and 175 ft. W. from junction of T-rd. S., in root on N. side of multiple elm tree; copper nail and washer-----	818.36
Ohio, 3.5 mi. N. and 0.3 mi. E. from, near SE. cor. sec. 21, T. 19 N., R. 9 E., in NW. angle of crossroads, on W. end of N. head wall of concrete culvert under E.-W. rd.; chiseled square-----	804.56
Ohio, 3.5 mi. N. and 0.7 mi. W. from, near NW. cor. sec. 28, T. 19 N., R. 9 E., 20 ft. S. and 40 ft. E. from crossroads, in concrete post; aluminum tablet stamped "P T Sta No 115 S 1922"-----	723.831
Reference mark, 70 ft. N. and 30 ft. E. from crossroads, in root on E. side of 6-in. tulip tree; copper nail and washer-----	727.37
Ohio, 4.5 mi. N. and 0.7 mi. W. from, near SE. cor. sec. 17, T. 19 N., R. 9 E., 30 ft. N. and 50 ft. W. from crossroads, in root on S. side of 6-in. maple tree; copper nail and washer-----	734.50
Ohio, 4.5 mi. N. and 1.7 mi. W. from, 5.0 mi. N. and 5.0 mi. E. from Walnut, near SE. cor. sec. 18, T. 19 N., R. 9 E., 25 ft. N. and 40 ft. W. from crossroads, in fence line, in root on S. side of multiple elm tree; copper nail and washer-----	702.29
[Connects with line 4 in Walnut quadrangle]	
3. From point 4.5 miles north and 1.7 miles west from Ohio north along road to point 6.5 miles south of Dixon (by G. W. Moore in 1930)	
Ohio, 5.6 mi. N. and 1.7 mi. W. from, 450 ft. N. of SE. cor. sec. 7, T. 19 N., R. 9 E., 450 ft. N. of E.-W. line fence, 30 ft. W. of rd., 5 ft. E. of fence, in root on NW. side of multiple willow tree; copper nail and washer-----	677.64
Ohio, 6.7 mi. N. and 1.7 mi. W. from, 0.22 mi. N. of SE. cor. sec. 6, T. 19 N., R. 9 E., 140 ft. S. of E.-W. sixteenth-section-line fence, 25 ft. W. of rd., in root on E. side of 29-in. cottonwood tree; copper nail and washer-----	680.51
Ohio, 7.5 mi. N. and 1.7 mi. W. from, 3.0 mi. E. thence 3.5 mi. S. from Harmon, near NE cor. sec. 6, T. 19 N., R. 9 E., 100 ft. S. and 34 ft. W. from junction of T-rd. W., in concrete post; standard tablet stamped "3 M 1930"-----	681.827
Reference mark, 40 ft. N. and 75 ft. E. from tablet, in NW. corner of farmyard, in root on W. side of 12-in. walnut tree; copper nail and washer-----	681.49
Harmon, 3.0 mi. E. thence 2.5 mi. S. from, near NW. cor. sec. 32, T. 20 N., R. 9 E., 22 ft. E. of junction of T-rd. E., opposite T-fence W., on S. end of W. concrete wing of small wooden bridge over ditch; chiseled square-----	681.75
Harmon, 3.0 mi. E. thence 1.6 mi. S. from, 0.13 mi. S. of NE. cor. sec. 30, T. 20 N., R. 9 E., 0.12 mi. N. of junction of T-rd. E., 24 ft. W. of rd., in root on SE. side of 12-in. elm tree; copper nail and washer---	687.20
Harmon, 3.0 mi. E. thence 1.0 mi. S. from, near W $\frac{1}{4}$ cor. sec. 20, T. 20 N., R. 9 E., 130 ft. S. and 28 ft. E. from crossroads, in root on NW. side of 24-in. elm tree; copper nail and washer-----	710.32
Harmon, 3.0 mi. E. of, 0.5 mi. N. thence 3.0 mi. W. from Walton, near E $\frac{1}{4}$ cor. sec. 18, T. 20 N., R. 9 E., 60 ft. S. and 29 ft. W. from crossroads, in concrete post; standard tablet stamped "4 M 1930" (recovered by U. S. C. & G. S. in 1934)-----	704.470

Reference mark, 110 ft. NE. of tablet, in NE. angle of crossroads, on N. end of E. head wall of concrete culvert; chiseled square-----	<i>Feet</i> 704. 02
Harmon, 3.0 mi. E. thence 0.6 mi. N. from, 0.11 mi. N. of S. cor. secs. 7 and 8, T. 20 N., R. 9 E., 585 ft. N. of E.-W. line fences, on W. parapet of N. abutment of iron bridge; chiseled square-----	697. 54
Harmon, 3.0 mi. E. thence 1.5 mi. N. from, 7.0 mi. S. of Dixon, near NW. cor. sec. 8, T. 20 N., R. 9 E., 35 ft. S. and 35 ft. E. from crossroads, in NW. corner of schoolyard, in root on NW. side of twin maple tree; copper nail and washer-----	713. 71

[Connects with line 4 in Dixon quadrangle]

4. From crossroads 1.6 miles north and 0.8 mile east from Amboy west and south along roads to Amboy (by W. C. Elledge in 1936)

Amboy, 1.6 mi. N. of, 0.25 mi. E. of center of sec. 10, T. 20 N., R. 10 E., 200 ft. S. of intersection of U. S. Highway 52, on E. side of highway, on N. head wall of concrete culvert; chiseled square-----	778. 90
Amboy, 30 ft. S. of N. city limits, on W. side of highway, on top near center of W. head wall of concrete culvert; chiseled square-----	756. 62
U. S. C. & G. S. standard disk stamped "R 48 1934"-----	742. 886

# ANNAWAN QUADRANGLE

[Latitude 41°15'–41°30'; longitude 89°45'–90°00']

## BUREAU AND HENRY COUNTIES

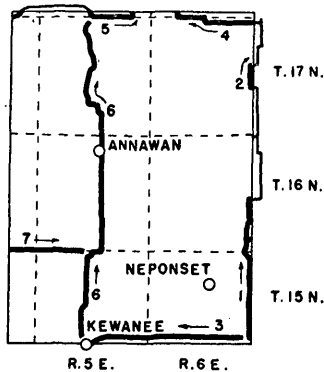


FIGURE 214.—Lines of leveling in Annawan quadrangle.

1. From crossroads near center of sec. 25, T. 15 N., R. 6 E., north along roads and highway to point 0.7 mile northwest of Sheffield (by E. O. Brooks in 1921)

[Continued from Camp Grove quadrangle, line 2] <sup>3</sup>

Neponset, 2.8 mi. S. and 2.0 mi. E. from, near center of sec. 25, T. 15 N., R. 6 E., in SW. angle of crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 16 1919" and "14 EB 1921 777" (recovered in 1927)-----	<i>Feet</i> 776.651
Neponset, 1.8 mi. S. and 2.0 mi. E. from, near center of sec. 24, T. 15 N., R. 6 E., on E. side of rd., at junction of T-rd. W., 5 ft. W. of fence, in root of 48-in. maple tree; copper nail and washer-----	783.81
Neponset, 0.8 mi. S. and 2.0 mi. E. from, near center of sec. 13, T. 15 N., R. 6 E., at crossroads, 40 ft. SW. of NE. fence corner, on N. end of retaining wall at E. end of stone culvert; chiseled square-----	789.45
Neponset, 2.0 mi. E. of, near center of sec. 12, T. 15 N., R. 6 E., in NW. angle of crossroads, 15 ft. N. of fence corner; standard iron post with bronze cap stamped "15 EB 1921 794"-----	793.405
Reference mark, 19 ft. S. and 18 ft. W. from iron post, in NW. angle of crossroads, 4 ft. S. of fence, on E. end of N. retaining wall of culvert; chiseled square-----	794.88
Neponset, 1.3 mi. N. and 2.0 mi. E. from, 0.25 mi. N. and 0.15 mi. W. from center of sec. 1, T. 15 N., R. 6 E., at Y-rd. junction, at E.-W. fence line on N. side of rd., 90 ft. E. of fence corner; top of cap on 1½-in. iron pipe-----	802.36

<sup>3</sup> This line crosses the southwest corner of Buda quadrangle but no bench marks were established in that portion of the line.

Neponset, 3.5 mi. NE. of along U. S. Highway 34, 2.1 mi. S. and 0.8 mi. W. from Sheffield, 0.25 mi. W. of center of sec. 36, T. 16 N., R. 6 E., in SE. angle of crossroads, 5 ft. S. of fence corner; standard iron post with bronze cap stamped "7 EB 1921 750"-----	<i>Feet</i> 749.305
Reference mark, 45 ft. NW. of iron post, on E. end of S. retaining wall of concrete culvert; chiseled square-----	750.25
Sheffield, 1.6 mi. S. and 0.8 mi. W. from, 0.22 mi. E. of NW. cor. sec. 36, T. 16 N., R. 6 E., at junction of T-rd. W. and private rd. E., 15 ft. W. of fence corner, in SE. angle of junction, on W. end of S. retaining wall of concrete culvert; chiseled square-----	729.58
Sheffield, 0.6 mi. S. and 0.6 mi. W. from, near S $\frac{1}{4}$ cor. sec. 24, T. 16 N., R. 6 E., in NW. angle of crossroads, 10 ft. N. of fence corner, on fence line bearing N.; top of cap on 1 $\frac{5}{8}$ -in. iron pipe-----	709.49
Sheffield, 0.7 mi. NW. of, 0.2 mi. S. of N $\frac{1}{4}$ cor. sec. 24, T. 16 N., R. 6 E., 500 ft. NW. of tile plant, 70 ft. SE. of crossing of Chicago, Rock Island & Pacific Ry., 50 ft. NE. of crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 17 1919" and "8 EB 670" (recovered by U. S. C. & G. S. in 1935)-----	669.913
Reference mark, 20 ft. SE. of iron post, in SE. angle of R. R. crossing, 2.5 ft. NW. of fence corner, 0.5 ft. W. of fence; top of cap on 1 $\frac{5}{8}$ -in. iron pipe-----	669.25
Sheffield, 0.7 mi. NW. thence 0.2 mi. N. from, near S $\frac{1}{4}$ cor. sec. 13, T. 16 N., R. 6 E., 2 ft. NE. of NE. corner of concrete bridge over small drain, on top of wing wall; chiseled square-----	656.92

[Continued in Buda quadrangle, line 4]

**2. North along road in secs. 24 and 13, T. 17 N., R. 6 E. (by E. O. Brooks in 1921)**

[A jog from Buda quadrangle, line 4]

Sheffield, 5.7 mi. N. and 0.7 mi. W. from, 0.25 mi. S. of center of sec. 24, T. 17 N., R. 6 E., in NW. angle of junction of T-rd. N., 20 ft. N. of fence corner, 12 ft. S. of mail box of J. C. Jensen, 3 ft. E. of fence N.; top of cap on 1 $\frac{5}{8}$ -in. iron pipe-----	660.34
---	--------

[Continued in Buda quadrangle, line 4]

**3. From crossroads near center of sec. 25, T. 15 N., R. 6 E., west along road to U. S. Highway 34, thence southwest to Kewanee (by H. S. Senseney in 1927)**

Neponset, 2.8 mi. S. and 1.0 mi. E. from, near center of sec. 26, T. 15 N., R. 6 E., in SE. angle of junction of T-rd. S., in root of tree; copper nail and washer-----	734.79
Neponset, 2.8 mi. S. and 0.6 mi. E. from, 0.15 mi. E. of W $\frac{1}{4}$ cor. sec. 26, T. 15 N., R. 6 E., in NE. angle of junction of T-rd. N., on concrete drain pipe; chiseled square-----	751.39
Neponset, 2.8 mi. S. of, near center of sec. 27, T. 15 N., R. 6 E., 300 ft. W. of crossroads, on SW. wing wall of small bridge; chiseled square-----	731.63
Neponset, 2.8 mi. S. and 0.5 mi. W. from, near quarter corner between secs. 27 and 28, T. 15 N., R. 6 E., on S. side of rd., at junction of T-rd. N., in root of tree; copper nail and washer-----	757.84

\* On spur line north 0.2 mile from preceding bench mark.

# 1296 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Neponset, 2.8 mi. S. and 1.0 mi. W. from, 0.6 mi. N. and 5.8 mi. E. from Kewanee, near center of sec. 28, T. 15 N., R. 6 E., on N. side of rd., at junction of T-rd. S., in concrete post; standard tablet stamped "Prim Trav Sta No 141 K 1924"-----	<i>Feet</i> 760.488
Reference mark, 800 ft. W. of tablet, at SE. corner of bridge, on wing wall; chiseled square-----	726.50
Kewanee, 0.6 mi. N. and 5.1 mi. E. from, 0.1 mi. W. of E $\frac{1}{4}$ cor. sec. 29, T. 15 N., R. 6 E., 420 ft. W. of junction of T-rd. N., on N. side of rd., on culvert; chiseled square-----	753.21
Kewanee, 0.6 mi. N. and 4.6 mi. E. from, near center of sec. 29, T. 15 N., R. 6 E., on N. side of rd., at junction of T-rd. S., 5 ft. W. of fence line N.; top of cap on 1-in. iron pipe-----	781.14
Kewanee, 0.6 mi. N. and 3.2 mi. E. from, at Bureau-Henry county line, in concrete post; standard tablet stamped "Prim Trav Sta No 140 K 1924"-----	763.207
Reference mark, 18 ft. E. of tablet, on culvert; chiseled square-----	764.71
Kewanee, 1.2 mi. NE. of, 0.18 mi. W. of E $\frac{1}{4}$ cor. sec. 27, T. 15 N., R. 5 E., at overhead crossing of U. S. Highway 34 over Chicago, Burlington & Quincy R. R., on SE. side of tracks, on top of viaduct; chiseled square-----	821.27

[Continued in Toulon quadrangle, line 1]

4. From point 1.3 miles south and 1.5 miles west from New Bedford alternately west and north along roads to point 0.8 mile south and 0.5 mile west from Thomas (by H. S. Senseney in 1927)

[Connects with line 4 in Buda quadrangle]

New Bedford, 1.3 mi. S. and 2.3 mi. W. from, in NE $\frac{1}{4}$ sec. 2, T. 17 N., R. 6 E., in NE. angle of junction of T-rd. N., in root of tree; copper nail and washer-----	620.91
New Bedford, 1.3 mi. S. and 3.0 mi. W. from, 0.25 mi. S. of NE. cor. sec. 3, T. 17 N., R. 6 E., in SW. angle of crossroads, on S. side of fence, 3 ft. W. of corner fence post; top of cap on 1-in. iron pipe-----	620.72
New Bedford, 1.0 mi. S. and 4.0 mi. W. from, 1.0 mi. E. thence 1.0 mi. S. from Thomas, near NE. cor. sec. 4, T. 17 N., R. 6 E., 20 ft. S and 30 ft. W. from junction of T-rd. W., in concrete post; standard tablet stamped "27 S 1927"-----	618.562
Reference mark, 970 ft. W. of tablet, on S. side of rd., in root of tree; copper nail and washer-----	616.95
Thomas, 0.5 mi. W. thence 1.0 mi. S. from, near N $\frac{1}{4}$ cor. sec. 5, T. 17 N., R. 6 E., in SE. angle of junction of T-rd. E., in root of tree; copper nail and washer-----	630.57

[Continued in Prophetstown quadrangle, line 7]

5. From point 1.5 miles south and 0.3 mile west from Hooppole southeast 0.4 mile to southeast corner sec. 33, T. 18 N., R. 5 E., thence east 2 miles along township-line road, thence north 0.2 mile (by J. A. Shumate in 1927)

[Continued from Prophetstown quadrangle, line 6]

Hooppole, 1.7 mi. S. and 0.2 mi. W. from, about 300 ft. W. of NE. cor. sec. 4, T. 17 N., R. 5 E., 15 ft. S. and 150 ft. W. from rd. forks, in root on E. side of 12-in. willow tree; copper nail and washer (recovered in 1928)-----	611.30
--	--------

T. 18 N., R. 5 E., 0.25 mi. E. of S $\frac{1}{4}$ cor. sec. 34, 30 ft. N. and 67 ft. W. from junction of T-rd. S., in root on S. side of 12-in. hedge tree; copper nail and washer-----	Feet 622.13
T. 18 N., R. 5 E., 0.25 mi. W. of S $\frac{1}{4}$ cor. sec. 35, in NW. angle of crossroads, 1 ft. S. and 1 ft. E. from corner fence post; top of iron T-bar--	614.16
T. 18 N., R. 5 E., near S. cor. secs. 35 and 36, 24 ft. N. and 45 ft. W. from junction of T-rd. N., 300 ft. W. of dwelling of C. Greenwood, in concrete post; standard tablet stamped "T T Sta No 127 JLS 1927"-----	635.628
Reference mark, 63 ft. S.60°E. from tablet, in root on N. side of 10-in. boxelder tree; copper nail and washer-----	638.73
[Connects with line 7 in Prophetstown quadrangle]	
6. From Kewanee north along State Highway 78 and roads to point 1.7 miles south and 0.2 mile west from Hooppole (by L. V. Johnson in 1928)	
[Connects with line 1 in Toulon quadrangle]	
Kewanee, in N. part of, 20 ft. N. and 20 ft. E. from intersection of North Main and East Tenth Streets, on walk, 2 ft. from curb; chiseled square-----	836.13
Kewanee, 1.2 mi. N. of, 0.13 mi. N. of S $\frac{1}{4}$ cor. sec. 21, T. 15 N., R. 5 E., at Beyer School, 120 ft. S. and 60 ft. W. from junction of T-rd. W., 25 ft. S. of SE. corner of schoolhouse, on concrete base of pump; chiseled square-----	806.45
Kewanee, 2.1 mi. N. of, near S $\frac{1}{4}$ cor. sec. 16, T. 15 N., R. 5 E., 40 ft. N. and 10 ft. W. from junction of T-rd. S., 1 ft. N. of gate, on sidewalk leading to farmhouse; chiseled square-----	808.52
Kewanee, 2.1 mi. N. of, 0.25 mi. E. of S $\frac{1}{4}$ cor. sec. 16, T. 15 N., R. 5 E., about 500 ft. S. of highway junction, 360 ft. N. of junction of T-rd. N., 5 ft. S. of telephone pole, in line with poles N., in concrete post; standard tablet stamped "1 LV 1928"-----	776.044
Reference mark, 30 ft. N. of tablet, in root on S. side of 24-in. wild-cherry tree; copper nail and washer-----	773.33
Kewanee, 3.2 mi. N. of, in SE $\frac{1}{4}$ sec. 9, T. 15 N., R. 5 E., at SW. corner of steel bridge over Mud Creek, on concrete abutment; chiseled square-----	691.18
Kewanee, 4.3 mi. N. of, at Huntville School, in SE $\frac{1}{4}$ sec. 4, T. 15 N., R. 5 E., 100 ft. S. and 40 ft. E. from crossroads, on NW. side of highway, 20 ft. W. of SW. corner of schoolhouse, on concrete base of pump; chiseled square-----	809.01
Kewanee, 5.2 mi. N. of, 5.2 mi. S. and 0.5 mi. W. from Annawan, near SW. cor. sec. 34, T. 16 N., R. 5 E., 0.5 mi. W. of highway, 30 ft. N. and 65 ft. W. from junction of T-rd. S., 6 ft. E. of 12-in. walnut tree, in concrete post; standard tablet stamped "2 LJ 1928" (recovered in 1929)-----	793.741
Annawan, 4.3 mi. S. of, at Blinn School, 0.13 mi. S. of N $\frac{1}{4}$ cor. sec. 34, T. 16 N., R. 5 E., 40 ft. W. of center line of highway, 20 ft. E. of center of schoolhouse, on second concrete step; chiseled square--	715.62
Annawan, 2.2 mi. S. of, near S $\frac{1}{4}$ cor. sec. 15, T. 16 N., R. 5 E., 45 ft. N. and 25 ft. E. from crossroads, 10 ft. N. of fence corner, in concrete post; standard tablet stamped "3 LJ 1928"-----	679.630
Reference mark, 75 ft. W. of tablet, in root on E. side of 24-in. maple tree; copper nail and washer-----	679.00

# 1298 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Annawan, 1.2 mi. S. of, 300 ft. S. and 35 ft. W. from N $\frac{1}{4}$ cor. sec. 15, T. 16 N., R. 5 E., 300 ft. S. of crossroads, on W. side of highway, in root on NE. side of lone 50-in. cottonwood tree; copper nail and washer-----	<i>Feet</i> 653.50
Annawan, 25 ft. S. and 60 ft. W. from intersection of State Highways 7 and 78, 40 ft. W. of angle in sidewalk, 6 ft. N. of NW. corner of general store of C. J. Bomleny, in sidewalk; standard tablet stamped "4 LJ 1928" (recovered by U. S. C. & G. S. in 1935)-----	625.593
Reference mark, 40 ft. E. of tablet, on sidewalk; chiseled square-----	625.45
Annawan, 0.8 mi. N. of, on E. side at N. end of steel highway bridge over Illinois and Mississippi Canal, on first step of concrete abutment; chiseled square-----	640.94
Annawan, 1.8 mi. N. of, 0.2 mi. E. of Baker School, near S $\frac{1}{4}$ cor. sec. 27, T. 17 N., R. 5 E., 20 ft. N. of E.-W. rd., in line with T-rd. S., 1 ft. W. of mail box post; iron rod driven in ground-----	625.56
Annawan, 3.3 mi. N. and 0.6 mi. W. from, 1.4 mi. SW. of Maple Grove School, 0.2 mi. E. of center of sec. 21, T. 17 N., R. 5 E., 25 ft. W. of rd., in line with rd. E., 2 ft. E. of fence corner, in concrete post; standard tablet stamped "5 LJ 1928"-----	621.163
Maple Grove School, about 400 ft. N. of, in NW $\frac{1}{4}$ sec. 15, T. 17 N., R. 5 E., 40 ft. E. of rd. junction, in root on W. side of 12-in. locust tree; copper nail and washer-----	647.08
Maple Grove School, 0.9 mi. NW. of, 0.3 mi. NE. of center of sec. 9, T. 17 N., R. 5 E., 450 ft. S. of fence E., 150 ft. S. and 60 ft. E. from junction of lane NW., in root on W. side of double-trunked willow tree; copper nail and washer-----	616.70
Maple Grove School, 2.0 mi. NW. of, 2.0 mi. S. and 0.3 mi. W. from Hoopole, in NE $\frac{1}{4}$ sec. 4, T. 17 N., R. 5 E., 10 ft. S. and 20 ft. W. from junction of second-class rd. W., in line between bridge over N.-S. rd. and bridge over E.-W. rd., 4 ft. W. of telephone pole, in concrete post; standard tablet stamped "6 LJ 1928"-----	612.541

7. From point 1.4 miles west of Union School east along township-line road to point 5.2 miles north of Kewanee (by F. K. Van Zandt in 1929)

[Continued from Geneseo quadrangle, line 4]

Union School, 1.0 mi. W. of, near NE. cor. sec. 2, T. 15 N., R. 4 E., in SW. angle of crossroads, in root of large oak tree; copper nail and washer-----	692.58
Union School, near SW. cor. sec. 31, T. 16 N., R. 5 E., 120 ft. NE. of crossroads, in concrete doorstep of schoolhouse; standard tablet stamped "1 V 1929"-----	693.274
Reference mark, 100 ft. SW. of tablet, in NE. angle of crossroads, on concrete culvert; chiseled square-----	680.55
Union School, 1.2 mi. E. of, 0.2 mi. E. of SW. cor. sec. 32, T. 16 N., R. 5 E., 400 ft. W. of junction of T-rd. N., 30 ft. N. of rd., in root of locust tree; copper nail and washer-----	755.89
Union School, 2.0 mi. E. of, near NE. cor. sec. 5, T. 15 N., R. 5 E., 30 ft. S. and 160 ft. W. from crossroads, in root of 14-in. oak tree; copper nail and washer-----	779.66

# BARRINGTON QUADRANGLE

[Latitude 42°00'–42°15'; longitude 88°00'–88°15']

COOK, KANE, LAKE, AND McHENRY COUNTIES

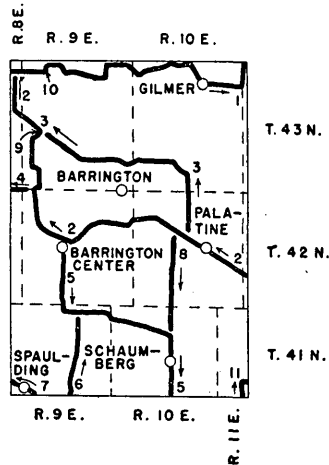


FIGURE 215.—Lines of leveling in Barrington quadrangle.

1. From point 0.4 mile east of Silver Lake generally east along roads to point 0.6 mile north of Diamond Lake (by S. L. Parker in 1919)

[Continued from Elgin quadrangle, line 2]

Silver Lake, 0.5 mi. E. of N. shore of, 2.4 mi. N. of Cary, near S $\frac{1}{4}$ cor. sec. 36, T. 44 N., R. 8 E., 50 ft. E. of SE. corner of T-rd. S., 6 ft. N. of fence line, in root on N. side of 12-in. boxelder tree; copper nail and washer	Feet 833.46
Cary, 2.4 mi. N. thence 0.3 mi. E. from, 875 ft. W. of SE. cor. sec. 36, T. 44 R., R. 8 E., on top of E. end of N. wing wall of concrete culvert; chiseled square	783.09
T. 44 N., R. 9 E., in SW $\frac{1}{4}$ sec. 32, at Rawson Bridge over Fox River, in top of NE. concrete abutment of steel bridge; standard tablet stamped "1919 741" (recovered in 1923)	740.781
T. 44 N., R. 9 E., about 600 ft. E. of W $\frac{1}{4}$ cor. sec. 33, at Courtney School, on top concrete step at front entrance; chiseled square	742.75
T. 44 N., R. 9 E., near SE. cor. sec. 33, in bend of rd., in root on S. side of 48-in. lone white-oak tree; copper nail and washer	756.68
T. 43 N., R. 9 E., 0.2 mi. N. of center of sec. 2, 1.6 mi. SW. of Wauconda, 200 ft. N. of junction of State Highway 59, 5 ft. N. of S. end of concrete culvert, in top of W. wing wall; standard tablet stamped "1919 757"	756.944
Wauconda, 0.8 mi. SW. of, near center of sec. 35, T. 44 N., R. 9 E., at junction of rd. E., 20 ft. E. of N.-S. rd., 5 ft. N. of rd. E., in root on W. side of 12-in. oak tree; copper nail and washer	790.27

# 1300 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Wauconda, 0.9 mi. SE. of, 1.0 mi. N. and 4.2 mi. W. from Gilmer, about 500 ft. E. of center of sec. 36, T. 44 N., R. 9 E., in SE. angle of crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 3 1919 803" <sup>a</sup> -----	<i>Feet</i> 803.646
Gilmer, 0.2 mi. N. and 3.5 mi. W. from, 0.3 mi. N. of center of sec. 6, T. 43 N., R. 10 E., 50 ft. SE. of SE. corner of crossroads, 1 ft. S. of N. rd. fence line, in root on W. side of 12-in. walnut tree; copper nail and washer-----	858.80
Gilmer, 0.8 mi. N. and 2.1 mi. E. from, about 0.1 mi. SW. of E $\frac{1}{4}$ cor. sec. 32, T. 44 N., R. 10 E., 25 ft. E. of NE. corner of junction of rd. E., 3 ft. N. of fence line, in root of 16-in. white-oak tree; copper nail and washer-----	895.45
Gilmer, 1.1 mi. NW. of, 0.2 mi. W. of center of sec. 34, T. 44 N., R. 10 E., at junction of NW-SE. rd., 5 ft. W. of NW. corner of fence, 1 ft. S. of fence line; standard iron post with bronze cap stamped "1919 821"-----	820.888
Gilmer, 0.3 mi. NW. of, in NE $\frac{1}{4}$ sec. 3, T. 43 N., R. 10 E., 150 ft. SE. of SW. corner of intersection of State Highway 63, in fence line, in root on E. side of 24-in. elm tree; copper nail and washer-----	825.03
Gilmer, 1.2 mi. E. of, 0.6 mi. S. thence 0.9 mi. W. from Diamond Lake, about 450 ft. E. of W $\frac{1}{4}$ cor. sec. 1, T. 43 N., R. 10 E., 2 ft. S. of S. rd. fence line, in root on N. side of 48-in. cottonwood tree; copper nail and washer-----	763.07
Diamond Lake, at Union School, in SW. corner of schoolyard, 5 ft. N. of corner, 83.6 ft. SW. of SW. corner of schoolhouse, 20.5 ft. SE. of SE. corner of house of William Einzewam; standard iron post with bronze cap stamped "Prim Trav Sta No 14 1906 763" (recovered in 1925) <sup>a</sup> -----	763.444

[Continued in Grays Lake quadrangle, line 2]

2. From point near Arlington Heights northwest along Chicago & North Western Railway to road intersection 2.5 miles southeast of Barrington, thence generally west and north along roads to Fox River Grove, thence northwest along railroad to Cary, thence northwest and north along roads about 2.5 miles (by S. L. Parker in 1919)

[Connects with line 2 in Highwood quadrangle]

Arlington Heights, 2.4 mi. NW. of, 1.3 mi. SE. of Palatine, at rd. crossing, 10 ft. S. of track, 20 ft. W. of rd., on highest point of W. end of 18-in. earthen tile under rd.; chiseled square-----	729.07
Palatine, 575 ft. SE. of R. R. sta., 38 ft. N. of track, 5 ft. E. of concrete sidewalk, near R. R. property line; standard iron post with bronze cap stamped "1919 751"-----	750.657
Palatine, in front of sta.; top of N. rail-----	750.4
Palatine, 1.0 mi. NW. of, at rd. crossing, 10 ft. N. of track, 15 ft. E. of rd., in base of S. side of telegraph pole; rail spike-----	782.24
Palatine, 1.8 mi. NW. of, at rd. crossing, 15 ft. N. of track, 10 ft. N. of public road, in base of S. side of R. R. crossing signpost; rail spike--	811.19

<sup>a</sup> In 1930 this bench mark was reported destroyed.

<sup>a</sup> In 1941 it was reported that the schoolhouse had been converted into a service station, and that the bench mark was defaced and probably disturbed.

Palatine, 2.9 mi. NW. thence 0.2 mi. W. from, 1.8 mi. S. thence 2.0 mi. E. from Barrington, in W½ sec. 8, T. 42 N., R. 10 E., about 900 ft. S. of overhead crossing of C. & N. W. Ry., 6 ft. W. of NW. corner of rd. junction, 1 ft. S. of fence line; standard iron post with bronze cap stamped "1919 871" <sup>1</sup> -----	<i>Feet</i> 868.315
Barrington, 1.8 mi. S. thence 0.8 mi. E. from, about 800 ft. S. of quarter corner between secs. 7 and 12, T. 42 N., Rs. 9 and 10 E., NW. of rd. junction; standard iron post with bronze cap stamped "Prim Trav Sta No 5 1919 868"-----	868.406
Barrington, 1.8 mi. S. of, at Lageschulte School, near center of SW¼ sec. 12, T. 42 N., R. 9 E., in NW. angle of crossroads, on SE. corner of top concrete step of schoolhouse; chiseled square-----	887.06
Barrington, 1.8 mi. S. thence 1.1 mi. W. from, in SW¼ sec. 11, T. 42 N., R. 9 E., 160 ft. W. of intersection of State highway, at S. end of large stone culvert, on top of W. concrete wing wall; chiseled square-----	848.39
Barrington, 1.8 mi. S. thence 2.3 mi. SW. from, at Elgin, Joliet & Eastern Ry. crossing; top of W. rail-----	897.7
Barrington, 1.8 mi. S. thence 2.3 mi. SW. from, 1.1 mi. NE. of Barrington Center, 0.25 mi. W. of center of sec. 15, T. 42 N., R. 9 E., about 150 ft. W. of E. J. & E. Ry. crossing, at junction of rd. N., 15 ft. SW. of NW. fence corner, in fence line, in root on N. side of 14-in. jack-oak tree; copper nail and washer-----	899.65
Barrington, 1.8 mi. S. thence 2.8 mi. SW. from, 0.6 mi. NE. of Barrington Center, near center of SE¼ sec. 16, T. 42 N., R. 9 E., at crossroads, 5 ft. NW. of NW. fence corner, 1 ft. N. of fence line; standard iron post with bronze cap stamped "1919 915" <sup>2</sup> -----	915.375
Barrington, 2.2 mi. S. and 3.7 mi. W. from, in NE¼ sec. 17, T. 42 N., R. 9 E., at Seymour Bridge over Spring Creek, on top of SW. concrete abutment; chiseled square-----	784.04
Barrington, 1.0 mi. S. and 4.5 mi. W. from, 0.05 mi. S. and 0.25 mi. W. from NE. cor. sec. 7, T. 42 N., R. 9 E., 15 ft. S. of SE. corner of T-rd. E., 1 ft. W. of fence line; standard iron post with bronze cap stamped "1919 855"-----	854.571
Barrington, 4.5 mi. W. of, at Cook-McHenry county line, 0.25 mi. W. of NE. cor. sec. 6, T. 42 N., R. 9 E., 26 ft. SW. of SE. corner of T-rd. S., in root on W. side of 16-in. jack-oak tree; copper nail and washer-----	801.18
Barrington, 1.0 mi. N. and 4.3 mi. W. from, near NE. cor. sec. 31, T. 43 N., R. 9 E., at Hager School, 4 ft. S. of front entrance, in concrete step; aluminum tablet stamped "1919 845"-----	845.038
Barrington, 1.0 mi. N. and 4.8 mi. W. from, near N¼ cor. sec. 31, T. 43 N., R. 9 E., at junction of T-rd. N., on S. side of rd., 2 ft. N. of fence line, in root on N. side of 30-in. jack-oak tree; copper nail and washer-----	845.73
Barrington, 2.3 mi. N. and 4.8 mi. W. from, 1.0 mi. SW. of Fox River Grove, about 0.25 mi. S. of center of sec. 19, T. 43 N., R. 9 E., at E. end of iron bridge over Spring (Chuns) Creek, on top of N. end of N. concrete wing wall; chiseled square-----	747.88

<sup>1</sup> In 1923 this bench mark was moved 33 ft. south and 7 ft. east from this position and reset at an elevation 2.370 ft. lower than that originally determined. The figures given represent the new elevation.

<sup>2</sup> In 1930 this bench mark was reported destroyed.

	<i>Feet</i>
Fox River Grove, at C. & N. W. Ry. crossing; top of N. rail-----	769.6
Fox River Grove, 0.4 mi. NW. of rd. crossing, 1.0 mi. SE. of Cary, in SE¼ sec. 18, T. 43 N., R. 9 E., at E. end of C. & N. W. Ry. bridge over Fox River, in top of S. stone abutment; aluminum tablet stamped "1919 771" (recovered in 1923)-----	771.231
Cary, 0.7 mi. NW. of R. R. sta., in SW¼ sec. 12, T. 43 N., R. 8 E., 75 ft. SE. of rd. fork, 10 ft. W. of W. fence line, in field, in root on S. side of 16-in. lone cottonwood tree; copper nail and washer--	818.03
Cary, 2.1 mi. N. of, about 700 ft. N. of center of sec. 1, T. 43 N., R. 8 E., at crossroads, 4 ft. E. of NE. fence corner, in root on S. side of 12-in. soft-maple tree; copper nail and washer-----	823.48
3. From point on Chicago & North Western Railway 1 mile northwest of Palatine along roads north and west to point 2.5 miles northwest of Barrington, thence northwest to Fox River Grove (by S. L. Parker in 1919)	
Palatine, 1.0 mi. NW. thence 1.3 mi. N. from, 3.7 mi. E. thence 1.1 mi. S. from Barrington, 0.13 mi. S. of N. cor. secs. 9 and 10, T. 42 N., R. 10 E., directly in NW. corner of crossroads, in root on N. side of 14-in. lone jack-oak tree; copper nail and washer-----	790.92
Barrington, 3.7 mi. E. thence 0.2 mi. S. from, 0.2 mi. S. of NW. cor. sec. 3, T. 42 N., R. 10 E., on E. side of rd., 120 ft. S. of brow of hill, 2 ft. E. of fence line, in root on W. side of 14-in oak tree; copper nail and washer-----	804.14
Barrington, 3.7 mi. E. thence 0.6 mi. N. from, 0.1 mi. N. of E¼ cor. sec. 33, T. 43 N., R. 10 E., 90 ft. W. of SW. corner of crossroads, in top of E. end of S. concrete parapet of culvert; aluminum tablet stamped "1919 803"-----	802.643
Barrington, 1.5 mi. N. thence 2.6 mi. E. from, 0.25 mi. E. of center of sec. 29, T. 43 N., R. 10 E., at front entrance to Pomeroy School, on SE. corner of concrete platform; chiseled square-----	883.19
Barrington, 1.5 mi. N. thence 1.8 mi. E. from, about 1 mile S. of Lake Zurich, near E¼ cor. sec. 30, T. 43 N., R. 10 E., 1 ft. N. and 4 ft. W. from SW. corner of crossroads; standard iron post with bronze cap stamped "1919 842"-----	842.063
Barrington, 1.5 mi. N. thence 0.8 mi. E. from, about 0.1 mi. NW. of center of sec. 30, T. 43 N., R. 10 E., at junction of T-rd. N., in field, 6 ft. N. and 2 ft. E. from NE. fence corner, in root on S. side of 12-in. oak tree; copper nail and washer-----	821.40
Barrington, 1.5 mi. N. thence 0.7 mi. W. from, at White School, near center of sec. 26, T. 43 N., R. 9 E., at N. end of concrete walk leading to front entrance of schoolhouse, on NW. corner of first concrete block; chiseled square-----	847.74
Barrington, 1.5 mi. N. thence 1.2 mi. W. from, 2.6 mi. SE. thence 0.8 mi. E. from rd. crossing in Fox River Grove, 4.0 mi. SE. thence 0.8 mi. E. from Cary, about 350 ft. W. of E¼ cor. sec. 27, T. 43 N., R. 9 E., at junction of T-rd. N., 1 ft. S. and 4 ft. W. from NW. fence corner; standard iron post with bronze cap stamped "1919 804"-----	804.307

4. From road junction 4.5 miles west of Barrington west along road 1.7 miles to point 2.3 miles southeast of Algonquin (by S. L. Parker in 1919)

Barrington, 5.8 mi. W. of, 2.4 mi. SE. of Algonquin, near N $\frac{1}{4}$  cor. sec. 1, T. 42 N., R. 8 E., at slight bend in rd., on N. side of rd., 4 ft. N. of fence line, in root on S. side of 18-in. black-oak tree; copper nail and washer----- *Feet*  
862.08

[Continued in Elgin quadrangle, line 3]

5. From road junction 0.6 mile northeast of Barrington Center along roads southwest 0.6 mile, thence alternately south and southeast to point 1.1 miles north of Roselle (by S. L. Parker in 1919; leveled twice)

Barrington Center, 0.25 mi. E. of SW. cor. sec. 16, T. 42 N., R. 9 E., at NW. corner of crossroads, 4 ft. SE. of NW. fence corner, on 24-in. granite boulder embedded in soil; chiseled square----- 869.03

Barrington Center, 1.0 mi. S. of, 0.25 mi. E. of SW. cor. sec. 21, T. 42 N., R. 9 E., 20 ft. N. of NW. corner of crossroads, 1.5 ft. W. of fence line, in lawn, in root on N. side of 18-in. soft-maple tree; copper nail and washer----- 837.47

Barrington Center, 1.8 mi. S. of, near center of SW $\frac{1}{4}$  sec. 28, T. 42 N., R. 9 E., at junction of T-rd. W., on E. side of rd., at lane E. to barn, at NE. fence corner, in root on W. side of 12-in. soft-maple tree; copper nail----- 845.79

Barrington Center, 2.4 mi. S. of, 5.7 mi. N. and 0.8 mi. W. from Bartlett, 0.25 mi. NW. of center of sec. 33, T. 42 N., R. 9 E., 4 ft. N. of NE. corner of crossroads, 1 ft. W. of fence line; standard iron post with bronze cap stamped "1919 847"----- 848.142

Bartlett, 4.8 mi. N. thence 0.7 mi. W. from, near S $\frac{1}{4}$  cor. fractional sec. 3, T. 41 N., R. 9 E., at NE. corner of crossroads, at fence corner, on 24-in. granite boulder embedded in soil, protruding 1 ft. above ground; chiseled square----- 854.86

Bartlett, 4.8 mi. N. of, 0.25 mi. E. of NW. cor. sec. 11, T. 41 N., R. 9 E., at SW. corner of junction of T-rd. S., on N. side of concrete base of steel milepost; chiseled square----- 852.42

Bartlett, 4.8 mi. N. thence 1.5 mi. E. from, 700 ft. E. of N $\frac{1}{4}$  cor. sec. 12, T. 41 N., R. 9 E., about 150 ft. NW. of junction of Higgins rd., at S. end of concrete culvert, on top of E. end of concrete wing wall; chiseled square----- 800.03

Bartlett, 4.5 mi. N. and 2.0 mi. E. from, 1.2 mi. N. thence 3.4 mi. NW. from Schaumburg, 0.25 mi. S. of NE. cor. sec. 12, T. 41 N., R. 9 E., 160 ft. NW. of SW. corner of crossroads, in top of E. end of S. concrete parapet of culvert; aluminum tablet stamped "1919 791"----- 790.955

Schaumburg, 1.2 mi. N. thence 2.0 mi. NW. from, at Meyers School, in S $\frac{1}{2}$  sec. 8, T. 41 N., R. 10 E., 2 ft. S. and 10 ft. W. from NE. corner of schoolyard, in root on N. side of 12-in. boxelder tree; copper nail and washer----- 810.95

Schaumburg, 1.2 mi. N. thence 1.0 mi. NW. from, 0.4 mi. S. of center of sec. 9, T. 41 N., R. 10 E., 120 ft. E. of junction of rd. N., on top of W. end of S. concrete parapet of culvert; chiseled square----- 825.60

\* In 1939 this bench mark was moved to a point 10 ft. east of northeast corner of crossroads, 2.5 ft. south of fence, and reset at an elevation 0.840 ft. higher than that originally determined. The figures given represent the new elevation.

# 1304 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Schaumburg, 1.2 mi. N. of, 0.25 mi. N. of center of sec. 15, T. 41 N., R. 10 E., 22 ft. E. of crossroads, in top of W. end of S. parapet of concrete culvert under rd.; aluminum tablet stamped "1919 769"-----	<i>Feet</i> 769.584
Schaumburg, at SE. corner of crossroads, 8 in. SW. of NW. corner of store building of John Fenz; chiseled square-----	798.83
Schaumburg, 1.5 mi. S. of, 1.4 mi. N. of Roselle, near quarter corner between secs. 27 and 34, T. 41 N., R. 10 E., at junction of T-rd. W., on E. side of rd., in top of S. end of concrete parapet of culvert; aluminum tablet stamped "1919 797"-----	796.811

[Continued in Wheaton quadrangle, line 4]

## 6. North 4.5 miles along road to point 4.8 miles north of Bartlett (by S. L. Parker in 1919)

[Connects with lines 1 and 4 in Wheaton quadrangle]

Bartlett, 1.5 mi. N. of, 0.25 mi. S. of NE. cor. sec. 27, T. 41 N., R. 9 E., at front entrance to Washington School (District No. 44), on NE. corner of top concrete step; chiseled square-----	822.84
Bartlett, 2.0 mi. N. of, in SW $\frac{1}{4}$ sec. 23, T. 41 N., R. 9 E., at concrete bridge across drain, in top of N. end of W. parapet; aluminum tablet stamped "1919 793"-----	792.192
Bartlett, 2.8 mi. N. of, about 0.2 mi. E. of SW. cor. sec. 14, T. 41 N., R. 9 E., 90 ft. N. of NW. corner of crossroads, 2 ft. W. of fence line, in root on E. side of 18-in. jack-oak tree; copper nail and washer---	822.68
Bartlett, 3.3 mi. N. of, 0.25 mi. W. of center of sec. 14, T. 41 N., R. 9 E., at crossroads, at NE. fence corner, on 36-in. boulder; chiseled square-----	815.77
Bartlett, 4.1 mi. N. of, in SW $\frac{1}{4}$ sec. 11, T. 41 N., R. 9 E., at front entrance to Hilltop School, on NE. corner of top concrete step; chiseled square-----	833.06

## 7. From point 1.7 miles northwest of Bartlett northwest along Chicago, Milwaukee, St. Paul & Pacific Railroad to point 0.9 mile northwest of Spaulding (by S. L. Parker in 1919)

[Continued from Wheaton quadrangle, line 4]

Spaulding, at intersection of Elgin, Joliet & Eastern Ry. and C. M. St. P. & P. R. R., 60 ft. E. of NE. corner of R. R. sta., at fence corner, 4 ft. N. of C. M. St. P. & P. R. R. property line, 1 ft. W. of E. J. & E. Ry. property line, in concrete post; aluminum tablet stamped "1919 767"-----	767.175
---	---------

[Continued in Elgin quadrangle, line 4]

## 8. From point on Chicago & North Western Railway 1.8 miles northwest of Palatine south along road to crossroads 1.2 miles north of Schaumburg (by S. L. Parker in 1919)

Palatine, 1.8 mi. NW. thence 2.6 mi. S. from, 0.25 mi. W. of center of sec. 28, T. 42 N., R. 10 E., on E. side of rd, on top of N. end of parapet of concrete culvert; chiseled square-----	767.55
Palatine, 1.8 mi. NW. thence 3.3 mi. S. from, 3.7 mi. N. of Schaumburg, at St. John's Church, in NW $\frac{1}{4}$ sec. 33, T. 42 N., R. 10 E., at front entrance to church, in top of SE. corner of concrete platform; aluminum tablet stamped "1919 797"-----	796.772
Schaumburg, 2.7 mi. N. of, 0.45 mi. W. of NE. cor. fractional sec. 3, T. 41 N., R. 10 E., 15 ft. S. of junction of T-rd. W., on E. side of rd., in fence line, in root on W. side of 8-in. Osage-orange tree; copper nail and washer-----	758.04

9. At bridge over Fox River near Fox River Grove (by G. F. Williams in 1923)

Fox River Grove, 0.5 mi. NW. of R. R. crossing, 1.0 mi. SE. of Cary, at highway bridge over Fox River, on SW. wing wall of W. abutment; chiseled cross (Rivers and Lakes Comm. B. M.)-----	Feet 739.89
--	----------------

10. At Rawson Bridge over Fox River (by G. F. Williams in 1923)

T. 44 N., R. 9 E., in SW $\frac{1}{4}$ sec. 32, at N. side of Rawson Bridge over Fox River, on top of W. wing wall, 2 ft. from end of wall; center of letter "A" in initials "F. A" <sup>10</sup> -----	739.82
---	--------

11. From point 2 miles north and 0.5 mile east from Itasca north and east along roads about 1 mile (by S. R. Archer in 1924)

[Continued from Wheaton quadrangle, line 7]

Itasca, 2.6 mi. NE. of, 0.1 mi. N. of center of NE $\frac{1}{4}$ sec. 32, T. 41 N., R. 11 E., 0.1 mi. N. of T-rd. W., on W. side of rd., 60 ft. N. of residence, in yard, on S. side of driveway, in root on E. side of 10-in. maple tree; copper nail and washer-----	705.61
Itasca, 3.2 mi. NE. of, 0.35 mi. N. and 0.1 mi. W. from SE. cor. sec. 29, T. 41 N., R. 11 E., 0.13 mi. E. of junction of T-rd. E., at NE. corner of concrete bridge, on top of E. end of N. side wall, 3 ft. above floor; chiseled square-----	693.52

[Continued in Highwood quadrangle, line 5]

---

<sup>10</sup> This bench mark is on a slant.

# BELVIDERE QUADRANGLE

[Latitude 42°15'–42°30'; longitude 88°45'–89°00']

## BOONE AND WINNEBAGO COUNTIES

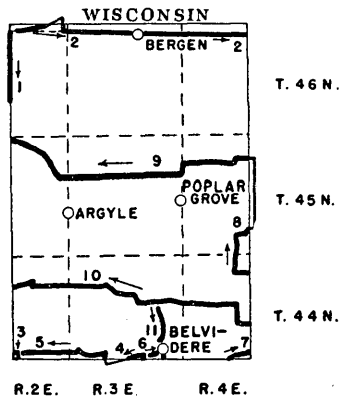


FIGURE 216.—Lines of leveling in Belvidere quadrangle.

1. From point on Illinois-Wisconsin State line 0.6 mile north and 1.9 miles east from South Beloit south along road 3.7 miles to point 1.8 miles north and 0.5 mile east from Roscoe (by C. H. Semper in 1917) <sup>11</sup>

[Continued from Rockford quadrangle, line 5]

South Beloit, 0.6 mi. N. and 1.9 mi. E. from, 5.5 mi. N. and 0.5 mi. E. from Roscoe, at Illinois-Wisconsin State line, 0.4 mi. W. of SE. cor. sec. 31, T. 1 N., R. 13 E., on N. side of rd., at junction of T-rd. S., 35 ft. N. of N. cor. fractional secs. 3 and 4, T. 46 N., R. 2 E. (Ill.); standard iron post with bronze cap stamped "Prim Trav Sta No 7 1915 799"-----

Feet  
798.710<sup>1</sup>

Roscoe, 3.8 mi. N. and 0.5 mi. E. from, near SW. cor. sec. 10, T. 46 N., R. 2 E., 50 ft. N. of crossroads, on SE wing wall of concrete bridge over Dry Creek; chiseled square-----

767.27

Roscoe, 2.8 mi. N. and 0.5 mi. E. from, near NE. cor. sec. 21, T. 46 N., R. 2 E., in SW. angle of crossroads; standard iron post with bronze cap stamped "785"-----

783.782

[Continued in Rockford quadrangle, line 5]

2. From point on Illinois-Wisconsin State line 0.6 mile north and 1.9 miles east from South Beloit generally east along State-line road and other roads to point 2.2 miles west of the north corner of Boone and McHenry Counties (by C. H. Semper in 1917)

[Jogs into Wisconsin]

<sup>11</sup> Appears also as part of line 5 in Rockford quadrangle.

South Beloit, 0.6 mi. N. and 4.8 mi. E. from, 4.0 mi. W. of Bergen, Wis., 0.15 mi. W. of NE. cor. fractional sec. 1, T. 46 N., R. 2 E., at Illinois-Wisconsin State line, 0.15 mi. W. of N. corner of Boone and Winnebago counties, on S. side of rd., 75 ft. E. of concrete bridge over Dry Creek; standard iron post with bronze cap stamped "808"-----	<i>Feet</i> 807.767
Bergen, Wis., 0.7 mi. W. of, near NW. cor. fractional sec. 3, T. 46 N., R. 3 E., in SE. angle of junction of State-line rd. and T-rd. S.; standard iron post with bronze cap stamped "943"-----	942.465
Bergen, Wis., 2.0 mi. E. of, 0.25 mi. W. of NE. cor. fractional sec. 1, T. 46 N., R. 3 E., at junction of State-line rd. and T-rd. S.; standard iron post with bronze cap stamped "983"-----	982.040
Bergen, Wis., 5.1 mi. E. of, 0.6 mi. S. and 1.8 mi. W. from Sharon, Wis., near NW. cor. fractional sec. 3, T. 46 N., R. 4 E., in SE. angle of junction of State-line rd. and T-rd. S.; standard iron post with bronze cap stamped "969" (recovered in 1923)-----	968.739

[Continued in Harvard quadrangle, line 2]

3. From point 1.3 miles south and 5 miles east from Rockford east along River road to crossroads, thence south 0.2 mile to point 1 mile north and 2.5 miles west from Cherry Valley (by F. A. Danforth in 1917)

[Continued from Rockford quadrangle, line 11]

Cherry Valley, 1.2 mi. N. and 2.5 mi. W. from, 1.3 mi. S. and 5.0 mi. E. from Rockford, 2.0 mi. S. of Guilford Center School, near NW. cor. sec. 34, T. 44 N., R. 2 E., in SE. angle of intersection of River rd. and N.-S. rd., in base of corner fence post; spike-----	844.50
---	--------

[Continued in Kirkland quadrangle, line 4]

4. From point 1 mile southwest of Belvidere southwest along Chicago & North Western Railway about 1 mile (by J. B. Metcalfe, Jr., in 1917)

[A jog from Kirkland quadrangle, line 3]

Belvidere, 1.0 mi. SW. of, 0.2 mi. S. of NE. cor. sec. 34, T. 44 N., R. 3 E., on W. side of rd., 150 ft. S. of crossing of C. & N. W. Ry., on culvert; chiseled square-----	767.24
---	--------

[Continued in Kirkland quadrangle, line 3]

5. From point 0.5 mile south and 3.2 miles west from Belvidere north 0.2 mile to road junction, thence west along River road to crossroads 1.2 miles north and 2.5 miles west from Cherry Valley (by C. C. Gardner in 1917)

[Connects with line 3 in Kirkland quadrangle]

Belvidere, 0.3 mi. S. and 3.3 mi. W. from, in NE $\frac{1}{4}$ sec. 32, T. 44 N., R. 3 E., on S. side of River rd., 750 ft. SW. of junction of rd. S., on SE. corner of concrete culvert; chiseled square-----	761.93
Belvidere, 4.5 mi. W. of, 1.4 mi. N. and 1.2 mi. E. from Cherry Valley, near S $\frac{1}{4}$ cor. sec. 30, T. 44 N., R. 3 E., in NW. abutment of westernmost of two bridges over Kishwaukee River; aluminum tablet stamped "733"-----	732.773
Reference mark, 360 ft. SE. of tablet, on NW. masonry abutment of easternmost of two bridges; chiseled square-----	732.26

# 1308 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Cherry Valley, 1.4 mi. N. and 0.3 mi. W. from, 0.19 mi. E. of NW. cor. sec. 36, T. 44 N., R. 2 E., 300 ft. W. of crossroads, on SE. corner of concrete culvert; chiseled square----- Feet  
784.13.

Cherry Valley, 1.4 mi. N. and 1.3 mi. W. from, 2.0 mi. S. and 1.1 mi. E. from Guilford Center School, 0.15 mi. E. of NW. cor. sec. 35, T. 44 N., R. 2 E., on S. end of concrete culvert; chiseled square----- 800.38.

6. In Belvidere, along streets northeast and south (by C. C. Gardner in 1917)

Belvidere, at intersection of Pearl and West Pleasant Streets, just N. of high-school building, on S. side of Pleasant Street, on E. side of Pearl Street, on concrete curb, 5 ft. N. of catch basin; chiseled square ----- 781.44

[Continued in Kirkland quadrangle, line 5]

7. From point 0.5 mile south and 3.5 miles east from Belvidere along road northeast and east by way of Camp Epworth to point 1.3 miles west of Garden Prairie (by H. S. Senseney in 1917)

[Continued from Kirkland quadrangle, line 6]

Belvidere, 0.3 mi. S. and 4.0 mi. E. from, 2.0 mi. W. of Garden Prairie, near SE. corner of grounds of Camp Epworth, 0.2 mi. S. of NE. cor. sec. 33, T. 44 N., R. 4 E., in SW. angle of junction of rd. S., in root of tree; copper nail and washer----- 792.73.

[Continued in Harvard quadrangle, line 1]

8. From point 4 miles north and 1.3 miles west from Garden Prairie along roads west, north, and northeast to point 3.5 miles south and 0.3 mile west from Capron (by H. S. Senseney in 1917)

[A jog from Harvard quadrangle, line 1]

Garden Prairie, 4.0 mi. N. and 2.0 mi. W. from, 1.0 mi. E. and 1.0 mi. S. from Russellville, near SE. cor. sec. 4, T. 44 N., R. 4 E., 35 ft. N. and 25 ft. W. from crossroads; standard iron post with bronze cap stamped "843," also stamped "Prim Trav Sta No 12 W 1921"----- 842.587

Reference mark, in NW. angle of crossroads, on boulder; chiseled square ----- 842.24

Russellville, 1.0 mi. E. of, near SE. cor. sec. 33, T. 45 N., R. 4 E., in NW. angle of crossroads, in root of tree; copper nail and washer-- 826.44

Russellville, 1.0 mi. E. and 1.0 mi. N. from, 3.7 mi. S. and 1.2 mi. W. from Capron, near SE. cor. sec. 28, T. 45 N., R. 4 E., on W. side of rd., 30 ft. N. of junction of rd. NE., in root of tree; copper nail and washer----- 820.27

[Continued in Harvard quadrangle, line 1]

9. From point 0.3 mile west of Capron along roads west and north-west to point 0.2 mile south and 0.5 mile east from Roscoe (by H. S. Senseney in 1917; last two miles by C. H. Semper)

[Continued from Harvard quadrangle, line 1]

Capron, 1.2 mi. W. of, 2.0 mi. N. and 3.0 mi. E. from Poplar Grove, 0.25 mi. S. of NW. cor. sec. 10, T. 45 N., R. 4 E., on S. side of rd., 50 ft. E. of right-angle turn in rd. S., in root of tree; copper nail and washer----- 906.95

Poplar Grove, 1.8 mi. N. and 2.2 mi. E. from, 0.25 mi. W. of center of sec. 9, T. 45 N., R. 4 E., in NW. angle of junction of T-rd. N., in root of tree; copper nail and washer-----	<i>Feet</i> 883.91
Poplar Grove, 1.8 mi. N. and 1.2 mi. E. from, 0.25 mi. W. of center of sec. 8, T. 45 N., R. 4 E., 25 ft. N. and 45 ft. W. from crossroads; standard iron post with bronze cap stamped "888"-----	887.839
Poplar Grove, 1.8 mi. N. of, 1.0 mi. S. of Beaverton Crossroads, near E $\frac{1}{4}$ cor. sec. 12, T. 45 N., R. 3 E., in NW angle of crossroads, on culvert; chiseled square-----	929.15
Poplar Grove, 1.3 mi. N. of, near NE. cor. sec. 13, T. 45 N., R. 3 E., in SW. angle of crossroads, on culvert; chiseled square-----	925.49
Poplar Grove, 1.3 mi. N. and 1.5 mi. W. from, 1.1 mi. N. and 2.1 mi. E. from Caledonia, near Quailtrap School, near S $\frac{1}{4}$ cor. sec. 11, T. 45 N., R. 3 E., 20 ft. N. and 45 ft. E. from crossroads; standard iron post with bronze cap stamped "942"-----	941.388
Caledonia, 1.1 mi. N. and 0.8 mi. E. from, 0.25 mi. W. of S $\frac{1}{4}$ cor. sec. 10, T. 45 N., R. 3 E., in NE. angle of crossroads, on culvert; chiseled square-----	952.35
Caledonia, 1.1 mi. N. and 1.2 mi. W. from, 0.25 mi. W. of quarter corner between secs. 8 and 17, T. 45 N., R. 3 E., on NE. side of C. & N. W. Ry. track, on W. side of N-S. rd., in line with rd. E.; standard iron post with bronze cap stamped "946"-----	945.089
Caledonia, 1.1 mi. N. and 2.4 mi. W. from, 1.7 mi. N. of Argyle, 300 ft. E. of SW. cor. sec. 7, T. 45 N., R. 3 E., 300 ft. E. of Boone-Winnebagoo county line, on N. side of rd., on culvert; chiseled square-----	919.95
[Connects with line 5 in Rockford quadrangle]	
10. From point 1.6 miles north and 1.3 miles west from Garden Prairie along roads alternately west and north to point 1.5 miles north of Guilford Center School (by S. L. Parker in 1917)	
[Connects with line 1 in Harvard quadrangle]	
Garden Prairie, 1.6 mi. N. and 2.0 mi. W. from, 1.6 mi. in air line N. of Camp Epworth, 0.25 mi. S. of Denny School, near W $\frac{1}{4}$ cor. sec. 22, T. 44 N., R. 4 E., in NE. angle of junction of T-rd. N., on E. end of concrete culvert under N-S. rd.; chiseled square-----	809.50
Denny School, 0.7 mi. N. of, near W $\frac{1}{4}$ cor. sec. 15, T. 44 N., R. 4 E., at junction of T-rd. W., on E. end of concrete culvert; chiseled square-----	825.74
Denny School, 0.7 mi. N. and 1.0 mi. W. from, 2.5 mi. S. of Russellville, 2.4 mi. N. and 3.0 mi. E. from Belvidere, near W $\frac{1}{4}$ cor. sec. 16, T. 44 N., R. 4 E., in NE. angle of crossroads, 3 ft. E. of fence corner; standard iron post with bronze cap stamped "1917 821"-----	819.981
Belvidere, 2.4 mi. N. and 2.1 mi. E. from, near W $\frac{1}{4}$ cor. sec. 17, T. 44 N., R. 4 E., 450 ft. E. of crossroads, on S. end of culvert; chiseled square-----	806.02
Belvidere, 2.4 mi. N. and 1.0 mi. E. from, at Squaw Prairie School, near E $\frac{1}{4}$ cor. sec. 13, T. 44 N., R. 3 E., in NW. angle of crossroads, in SE. corner of schoolyard, in root on S. side of 12-in. tree; copper nail and washer-----	790.91
Belvidere, 2.4 mi. N. of, 0.2 mi. W. of E $\frac{1}{4}$ cor. sec. 14, T. 44 N., R. 3 E., 170 ft. E. of crossing of C. & N. W. Ry., in NW. angle of junction of T-rd. N., 3 ft. N. of fence corner; standard iron post with bronze cap stamped "1917 786"-----	784.985

# 1310 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Belvidere, 2.9 mi. N. and 2.0 mi. W. from, near NE. cor. sec. 16, T. 44 N., R. 3 E., in SW. angle of crossroads, in root on N. side of 15-in. black-oak tree; copper nail and washer-----	<i>Feet</i> 817.63
Belvidere, 3.4 mi. N. and 3.0 mi. W. from, 1.0 mi. E. of White Pigeon School, near W $\frac{1}{4}$ cor. sec. 9, T. 44 N., R. 3 E., in SE. angle of rd. fork, 1 ft. N. of S. right-of-way line of E.-W. rd.; standard iron post with bronze cap stamped "835"-----	834.251
Belvidere, 3.4 mi. N. and 4.0 mi. W. from, 3.7 mi. S. and 1.0 mi. E. from Argyle, at White Pigeon School, near W $\frac{1}{4}$ cor. sec. 8, T. 44 N., R. 3 E., in NE. angle of crossroads, on NE. corner of concrete platform, at entrance to schoolhouse; chiseled square-----	842.80
Argyle, 3.7 mi. S. and 0.3 mi. E. from, 0.7 mi. W. of White Pigeon School, 0.2 mi. W. of center of sec. 7, T. 44 N., R. 3 E., in NW. angle of crossroads, on W. end of concrete culvert; chiseled square-----	879.85
Argyle, 3.7 mi. S. and 1.0 mi. W. from, 2.0 mi. W. of White Pigeon School, 2.0 mi. E. and 1.5 mi. N. from Guilford Center School, near E $\frac{1}{4}$ cor. sec. 11, T. 44 N., R. 2 E., in SW. angle of junction of T-rd. S.; standard iron post with bronze cap stamped "901"-----	900.122
Guilford Center School, 1.7 mi. N. and 1.0 mi. E. from, 0.5 mi. SW. of Bell School, 0.2 mi. N. of W $\frac{1}{4}$ cor. sec. 11, T. 44 N., R. 2 E., in SE. angle of crossroads, on S. end of concrete culvert; chiseled square--	892.94
Guilford Center School, 1.5 mi. N. of, near W $\frac{1}{4}$ cor. sec. 10, T. 44 N., R. 2 E., 250 ft. E. of junction of T-rd. S., on NW. abutment of small concrete bridge; chiseled square-----	847.52
[Continued in Rockford quadrangle, line 12]	
11. From road junction 2.4 miles north of Belvidere southeast along Chicago & North Western Railway and south along road to Belvidere (by S. L. Parker in 1917)	
Belvidere, in SW. corner of intersection of State and Jackson Streets, on concrete curb; chiseled square-----	778.82
Belvidere, 50 ft. S. and 30 ft. W. from intersection of Locust and West Pleasant Streets, 120 ft. W. of crossing of C. & N. W. Ry., on S. side of West Pleasant Street, 2 ft. N. of concrete sidewalk; standard iron post with bronze cap stamped "Prim Trav Sta No 13 1917 778"-----	777.552

# BRODHEAD QUADRANGLE

[Latitude 42°30'–42°45'; longitude 89°15'–89°30']

## STEVENSON AND WINNEBAGO COUNTIES

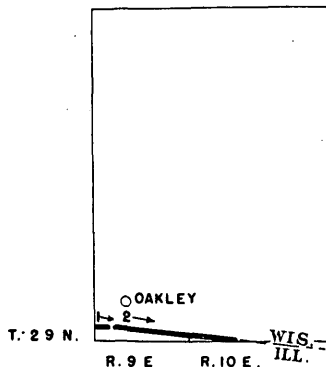


FIGURE 217.—Lines of leveling in Brodhead quadrangle.

1. Along Illinois-Wisconsin State line in fractional secs. 19 and 20, T. 29 N., R. 9 E. (by R. G. Clinite in 1919; spur line leveled twice)

[Connects with line 1 in Monroe quadrangle]

Rock City, 6.3 mi. N. and 0.7 mi. W. from, 1.9 mi. S. and 0.9 mi. W. from Oakley, Wis., 0.3 mi. W. of NE. cor. fractional sec. 20, T. 29 N., R. 9 E., 25 ft. S. and 50 ft. W. from junction of State-line rd. and T-rd. S.; standard iron post with bronze cap stamped "Prim Trav Sta No 29 1911 991" (recovered in 1932)	Feet 990.667
2. East along Illinois-Wisconsin State line from fractional sec. 20, T. 29 N., R. 9 E., to point 4.4 miles north and 0.5 mile west from Durand (by S. R. Archer in 1932)	
Rock City, 6.0 mi. in air line N. of, 0.25 mi. E. of NW. cor. fractional sec. 21, T. 29 N., R. 9 E., 45 ft. E. of junction of private rd. S., on S. head wall of concrete culvert; chiseled square	965.91
T. 29 N., R. 9 E., near N¼ cor. fractional sec. 22, 25 ft. S. and 36 ft. W. from junction of T-rd. S., 10 ft. W. of intersecting fences, in concrete post; standard tablet stamped "16 A 1932"	1,020.980
T. 1 N., R. 9 E., 350 ft. W. of S¼ cor. sec. 33, on N. side of State-line rd., 40 ft. W. of drain, at fence line, in root on SW. side of forked willow tree; copper nail and washer <sup>12</sup>	914.96
T. 29 N., R. 9 E., 160 ft. W. of NE. cor. fractional sec. 23, 5.4 mi. N. of Davis, on S. side of State-line rd., in field, in root on NW. side of 10-in. oak tree; copper nail and washer	884.00

<sup>12</sup> This bench mark is in Wisconsin.

## 1312 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

T. 29 N., R. 9 E., 20 ft. S. and 30 ft. W. from NE. cor. fractional sec. 24, in SW. angle of intersection of Illinois-Wisconsin State-line and Stevenson-Winnebago county-line rds.; standard iron post with bronze cap stamped "Prim Trav Sta No 5 1915"-----	<i>Feet</i> 988.140
T. 1 N., R. 9 E., 0.07 mi. E. of SW. cor. sec. 36, 375 ft. E. of junction of T-rd. N., 275 ft. W. of junction of T-rd. S., on E. end of N. head wall of concrete culvert; chiseled square <sup>23</sup> -----	865.32
T. 29 N., R. 10 E., near N $\frac{1}{4}$ cor. fractional sec. 20, in SE. angle of cross-roads, in root on NW. side of 6-in. oak tree; copper nail and washer--	880.34
T. 29 N., R. 10 E., near N $\frac{1}{4}$ cor. fractional sec. 21, 4.4 mi. N. thence 1.0 mi. W. from Durand, in SW. angle of junction of rd. S., on S. head wall of concrete culvert, 5 ft. W. of E. end; chiseled square-----	817.03

[Continued in Pecatonica quadrangle, line 8]

<sup>23</sup> This bench mark is in Wisconsin.

# BUDA QUADRANGLE

[Latitude 41°15'–41°30'; longitude 89°30'–89°45']

## BUREAU COUNTY

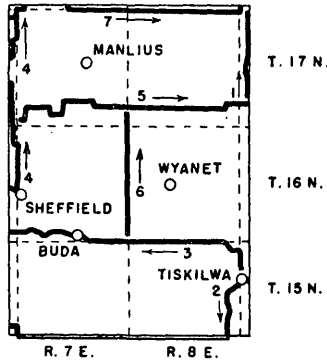


FIGURE 218.—Lines of leveling in Buda quadrangle.

1. From point 3.8 miles north and 1.8 miles west from Princeton north along road to point 1.8 miles west of Limerick (by Henry Bücher in 1908; releveled by E. O. Brooks in 1921)

[Continued from Hennepin quadrangle, line 4].

Princeton, 5.6 mi. N. and 1.9 mi. W. from, 1.8 mi. W. thence 3.0 mi. S. from Limerick, just W. of S¼ cor. sec. 18, T. 17 N., R. 9 E., in NW. angle of junction of rd. W., 12 ft. W. of fence corner, 1 ft. S. of fence; standard iron post with bronze cap stamped "1908 693"-----  
 Limerick, 1.8 mi. W. of, 70 ft. SE. of N¼ cor. sec. 6, T. 17 N., R. 9 E., in SE. angle of junction of T-rd. S., 2 ft. NW. of fence corner; standard iron post with bronze cap stamped "Prim Trav Sta No 10 1908 740" (recovered in 1930)-----

Feet  
692.521

739.712

[Continued in Hennepin quadrangle, line 5]

2. From Tiskilwa southwest and south 3.2 miles to point near southwest corner section 25, T. 15 N., R. 8 E. (by E. O. Brooks in 1921)

[Connects with line 2 in Hennepin quadrangle]

Tiskilwa, 45 ft. W. of general store of Edward Anderson, on N. right-of-way line of E.-W. street, near junction of range-line rd. N., on concrete base of lamp post; chiseled square-----  
 Tiskilwa, 134 ft. SW. of general store, at W. end of water trough; top of cap on iron pipe-----  
 Tiskilwa, 1.3 mi. SW. of, 0.25 mi. E. of NW. cor. sec. 24, T. 15 N., R. 8 E., in SW. angle of crossroads, on S. end of concrete culvert; chiseled square-----  
 Tiskilwa, 2.5 mi. SW. of, 880 ft. S. of crossroads, 0.17 mi. S. and 0.25 mi. E. from NW. cor. sec. 25, T. 15 N., R. 8 E., on E. side of rd., on top of concrete retaining wall; chiseled square-----

530.89

529.56

683.42

698.99

# 1314 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

[Continued in Camp Grove quadrangle, line 1]

3. From Tiskilwa north and west along roads by way of Buda to point 2.1 miles south and 0.6 mile west from Sheffield (by E. O. Brooks in 1921; leveled twice beyond Buda)

Tiskilwa, 0.7 mi. N. of, 0.25 mi. S. of NE. cor. sec. 12, T. 15 N., R. 8 E., 0.3 mi. N. of Chicago, Rock Island & Pacific Ry. crossing, in NW. angle of junction of rd. W., on top of S. end of concrete wing wall of culvert; chiseled square (recovered by U. S. C. & G. S. in 1935)---	Feet 521.292
Tiskilwa, 1.4 mi. N. of, near E $\frac{1}{4}$ cor. sec. 1, T. 15 N., R. 8 E., 70 ft. E. of junction of rd. W., on top of N. end of W. concrete abutment of steel bridge 6 over Illinois and Mississippi Canal; chiseled square -----	541.52
Tiskilwa, 2.0 mi. N. and 1.0 mi. W. from, near NE. cor. sec. 2, T. 15 N., R. 8 E., 100 ft. E. of junction of rd. NW., 22 ft. S. of S. fence line of rd., in N.-S. fence line, in root of 24-in. oak tree; copper nail and washer-----	550.39
Tiskilwa, 2.0 mi. N. and 1.8 mi. W. from, 0.17 mi. E. of SW. cor. sec. 35, T. 16 N., R. 8 E., opposite junction of T-rd. S., on N. fence line of E.-W. rd.; standard iron post with bronze cap stamped "1 EB 1921 636"-----	635.934
Tiskilwa, 2.0 mi. N. and 2.4 mi. W. from, 0.2 mi. E. of N $\frac{1}{4}$ cor. sec. 3, T. 15 N., R. 8 E., on S. side of rd., at SE. corner of steel bridge over small creek, 3 ft. E. of steel end post; top of steel I-beam set vertically in wing wall-----	599.10
Tiskilwa, 2.0 mi. N. and 3.0 mi. E. from, near SE. cor. sec. 33, T. 16 N., R. 8 E., at junction of T-rd. N., 4 ft. W. of fence corner; top of cap on 1 $\frac{5}{8}$ -in. iron pipe-----	655.16
Tiskilwa, 2.0 mi. N. and 4.0 mi. W. from, 3.0 mi. S. of Wyand, 4.8 mi. E. of Buda, near SW. cor. sec. 33, T. 16 N., R. 8 E., in NE. angle of crossroads, at fence corner, in root of 24-in. locust tree; copper nail and washer-----	663.56
Buda, 3.8 mi. E. of, 25 ft. E. of SW. cor. sec. 32, T. 16 N., R. 8 E., on N. side of rd., 4 ft. S. of fence, in root of 30-in. maple tree; copper nail and washer-----	726.16
Buda, 2.8 mi. E. of, near SW. cor. sec. 31, T. 16 N., R. 8 E., in NE. angle of intersection of township- and range-line rds., 14 ft. E. of fence corner; standard iron post with bronze cap stamped "2 EB 1921 766"-----	765.592
Reference mark, 150 ft. E. of crossroads, on S. side of rd., at fence line, in root of 36-in. boxelder tree; copper nail and washer-----	763.26
Buda, 1.8 mi. E. of, near N. cor. secs. 1 and 2, T. 15 N., R. 7 E., at junction of T-rd. S., 20 ft. NW. of E. corner of fence, on W. end of S. head wall of small concrete culvert; chiseled square-----	802.66
Buda, 0.8 mi. SE. of, near SW. cor. sec. 35, T. 16 N., R. 7 E., on N. side of rd., at junction of T-rd. S., 3 ft. N. of fence, in root of 18-in. walnut tree; copper nail and washer-----	809.00
Buda, at E. end of business section, at rd. crossing, 395 ft. E. of center line of Chicago, Burlington & Quincy R. R. track, at wye formed by junction of two streets, 2 ft. N. of N. edge of concrete sidewalk; standard iron post with bronze cap stamped "6 EB 1921 753" (recovered by U. S. C. & G. S. in 1934)-----	751.944
Buda, at crossing of C. B. & Q. R. R., on W. track of main line; top of W. rail-----	764.0

Buda, 1.3 mi. W. of, near W $\frac{1}{4}$ cor. sec. 33, T. 16 N., R. 7 E., on Buda-Sheffield rd., in SE. angle of crossing of Chicago & North Western Ry., 30 ft. E. of E. right-of-way fence line of R. R., 6 in. S. of S. fence line of rd., in root of 48-in. maple tree; copper nail and washer.	Feet 749.45
Buda, 1.3 mi. W. of, at crossing of C. & N. W. Ry.; top of W. rail.	744.7
Buda, 2.5 mi. W. of, 2.2 mi. SE. of Sheffield, 0.3 mi. NE. of center of sec. 31, T. 16 N., R. 7 E., 150 ft. SE. of junction of rd. N., on W. end of S. retaining wall of concrete bridge over small creek; chiseled square.	696.95

[Connects with line 1 in Annawan quadrangle]

4. From point 0.7 mile northwest of Sheffield southeast 0.5 mile to range-line road, thence generally north to point 1 mile south and 0.6 mile west from New Bedford (by E. O. Brooks in 1921; leveled twice to point 3.8 miles north of Sheffield)

[Continued from Annawan quadrangle, line 1]

Sheffield, in NW. part of, 0.25 mi. S. of NE. cor. sec. 24, T. 16 N., R. 6 E., on W. side of range-line rd., 390 ft. N. of crossing of C. R. I. & P. Ry., 200 ft. E. of dwelling of James Peterson, at fence line, in root of 48-in. cottonwood tree; copper nail and washer.	660.69
Sheffield, 1.4 mi. N. of, near NE. cor. sec. 13, T. 16 N., R. 6 E., on W. side of rd., at fence line, in root of 30-in. boxelder tree; copper nail and washer.	689.87
Sheffield, 2.4 mi. N. of, near NE. cor. sec. 12, T. 16 N., R. 6 E., at jog in E-W. rd., in SW. angle of junction of rd. W., at fence line S., 5 ft. S. of fence corner, in root of 18-in. walnut tree; copper nail and washer.	649.55
Sheffield, 3.0 mi. N. of, 0.25 mi. E. of center of sec. 1, T. 16 N., R. 6 E., 0.4 mi. S. of steel bridge 17 over Illinois and Mississippi Canal, in NW. angle of junction of T-rd. W., 50 ft. W. of fence corner, in root of 18-in. boxelder tree; copper nail and washer.	636.23
Sheffield, 3.8 mi. N. of, near center of SE $\frac{1}{4}$ sec. 36, T. 17 N., R. 6 E., in SE. angle of junction of T-rd. E., 5 ft. S. of fence corner, 0.5 ft. W. of fence line S.; standard iron post with bronze cap stamped "9 EB 1921 632"	631.991
Reference mark, 2 ft. S. of iron post, 0.5 ft. below surface of ground; top of cap on 1 $\frac{5}{8}$ -in. iron pipe.	631.14
Sheffield, 5.1 mi. N. of, 0.25 mi. E. of center of sec. 25, T. 17 N., R. 6 E., in NW. angle of crossroads, 55 ft. W. of fence corner, 0.5 ft. N. of fence, in root of 42-in. maple tree; copper nail and washer.	646.08

[Jogs into Annawan quadrangle, line 2]

New Bedford, 3.6 mi. S. and 1.4 mi. W. from, 7.0 mi. N. of Sheffield, 4.0 mi. in air line W. of Manlius, 0.25 mi. E. of center of sec 13, T. 17 N., R. 6 E., in NE. angle of junction of T-rd. N., 3 ft. N. of fence corner, at fence line; standard iron post with bronze cap stamped "16 EB 1921 670"	669.678
Reference mark, 3 ft. S. and 5 ft. E. from iron post at fence line E., 0.5 ft. below surface of ground; top of cap on 1 $\frac{5}{8}$ -in. iron pipe.	667.36
New Bedford, 2.6 mi. S. and 1.1 mi. W. from, near W $\frac{1}{4}$ cor. sec. 7, T. 17 N., R. 7 E., in NE. angle of junction of T-rd. N., 15 ft. SE. of S. end of hedge fence at fence line; top of cap on 1 $\frac{5}{8}$ -inch iron pipe.	651.83

# 1316 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

New Bedford, 1.9 mi. S. and 1.1 mi. W. from, 0.2 mi. S. of W $\frac{1}{4}$ cor. sec. 6, T. 17 N., R. 7 E., at S. end of steel bridge over Green River, on W. end of E. concrete wing wall; chiseled square-----	<i>Feet</i> 630.73
New Bedford, 1.3 mi. S. and 1.1 mi. W. from, 0.25 mi. N. of E $\frac{1}{4}$ cor. sec. 1, T. 17 N., R. 6 E., 30 ft. NW. of junction of T-rd. W., 3 ft. NE. of iron rail used as corner fence post; standard iron post with bronze cap stamped "Prim Trav Sta No 18 1919 17 EB 635" (recovered in 1927)-----	634.391
Reference mark, 5 ft. N. of iron post, 1 ft. E. of fence, 6 in. underground; top of cap on 1 $\frac{5}{8}$ -in. iron pipe-----	633.84
[Continued in Walnut quadrangle, line 1]	
5. From road junction 3.8 miles north of Sheffield generally east along roads to point 3.8 miles north and 1.8 miles west from Princeton (by E. O. Brooks in 1921)	
Sheffield, 3.8 mi. N. and 0.7 mi. E. from, 0.24 mi. S. of center of sec. 31, T. 17 N., R. 7 E., at T-rd. W., on E. side of N-S. rd., 10 ft. NE. of fence corner, in root of 30-in. boxelder tree; copper nail and washer-----	637.55
T. 17 N., R. 7 E., 0.25 mi. W. of SE. cor. sec. 30, in NE. angle of junction of T-rd. N., on Keway Trail, 15 ft. N. of fence corner, at fence line N.; top of cap on 1 $\frac{5}{8}$ -in. iron pipe-----	635.77
T. 17 N., R. 7 E., 0.25 mi. W. of SE. cor. sec. 29, on N. side of E-W. rd., at junction of T-rd. S., at fence line, 15 ft. W. of corner; top of cap on 1 $\frac{5}{8}$ -in. iron pipe-----	645.03
T. 17 N., R. 7 E., near center of sec. 33, on E. side of N-S. rd., at junction of T-rd. W., 12 ft. N. of fence corner, 3.5 ft. W. of fence, in root of 24-in. elm tree; copper nail and washer-----	676.53
T. 17 N., R. 7 E., 0.25 mi. S. of center of sec. 28, on W. side of rd., at junction of T-rd. E., 20 ft. N. of fence corner; standard iron post with bronze cap stamped "10 EB 1921 682"-----	681.727
Reference mark, 30 ft. S. of iron post, 3 ft. E. of fence, in root of 24-in. boxelder tree; copper nail and washer-----	682.23
Chicago & North Western Ry. crossing; top of W. rail-----	668.8
T. 17 N., R. 7 E., 0.25 mi. S. of center of sec. 27, 2.0 mi. S. of Manlius, 200 ft. E. of junction of T-rd. S., on W. end of S. retaining wall of concrete bridge over small creek; chiseled square <sup>14</sup> -----	665.07
T. 17 N., R. 7 E., near center of SW $\frac{1}{4}$ sec. 26, at right-angle turn from E. to S. in rd., 65 ft. S. and 17 ft. W. from fence corner on NE. side of turn, in root of 6-in. boxelder tree; copper nail and washer-----	692.98
T. 17 N., R. 7 E., near SW. cor. sec. 25, at old Manlius School, 35 ft. N. of rd., 40 ft. E. of T-rd. N., in SW. corner of schoolyard, 65 ft. SW. of schoolhouse, in root of 42-in. elm tree; copper nail and washer-----	709.48
T. 17 N., R. 8 E., near NW. cor. sec. 31, 2.2 mi. W. thence 4.0 mi. N. from Wyanet, in SE. angle of crossroads, 11 ft. S. of fence corner; standard iron post with bronze cap stamped "4 EB 1921 704"-----	703.499
Reference mark, 45 ft. N. of iron post, in NE. angle of crossroads, 12 ft. S. of fence corner, on W. end of N. head wall of concrete culvert; chiseled square-----	704.38

<sup>14</sup> In 1936 this bench mark was tied to U. S. C. & G. S. standard monel-metal rivet designated "RV 7," elevation 670.727 ft.

## BUDA QUADRANGLE

1317

T. 17 N., R. 8 E., 0.25 mi. E. of SW. cor. sec. 29, in NW. angle of junction of T-rd. N., 15 ft. W. of fence corner; top of cap on 1½-in. iron pipe---	<i>Feet</i> 700.50
T. 17 N., R. 8 E., near S¼ cor. sec. 27, 500 ft. NW. of bridge over West Bureau Creek, at junction of T-rd. N., 20 ft. SE. of fence corner in NW angle of junction, on S. end of W. head wall of concrete culvert; chiseled square-----	653.50
T. 17 N., R. 8 E., 0.12 mi. E. of S¼ cor. sec. 27, 650 ft. NE. of bridge over West Bureau Creek, at junction of rd. SW., 200 ft. N. and 100 ft. E. from dwelling of Marshall Thomas, on N. side of rd., at fence line, 15 ft. E. of 16-in. pipe culvert; standard iron post with bronze cap stamped "5 EB 1921 659"-----	658.749
Reference mark, 45 ft. S. of iron post, in SW. angle of rd. junction, on N. end of W. head wall of concrete culvert; chiseled square-----	663.42
T. 17 N., R. 8 E., near S¼ cor. sec. 26, at junction of T-rd. N., 15 ft. E. of fence corner in NW. angle of junction, on S. end of W. head wall of concrete culvert; chiseled square-----	677.44
T. 17 N., R. 8 E., near center of SW¼ sec. 25, in SE. angle of junction of T-rd. E., 20 ft. E. of fence corner, 2 ft. S. of fence, in root of 30-in. maple tree; copper nail and washer-----	682.78
Princeton, 3.8 mi. N. and 1.8 mi. W. from, 0.23 mi. N. of S¼ cor. sec. 30, T. 17 N., R. 9 E., in SW. angle of junction of T-rd. W., 20 ft. S. of fence corner, at fence line; top of cap on 1½-in. iron pipe-----	688.54
[Connects with line 4 in Hennepin quadrangle]	
6. From crossroads 2.8 miles east of Buda north along range-line road 7 miles to crossroads at corner secs. 25, 30, 31 and 36, T. 17 N., Rs. 7 and 8 E. (by E. O. Brooks in 1921; leveled twice)	
Buda, 2.8 mi. E. thence 0.9 mi. N. from, 2.2 mi. W. thence 2.1 mi. S. from Wyanet, 0.1 mi. S. of NE. cor. sec. 36, T. 16 N., R. 7 E., 50 ft. S. of junction of T-rd. W., on top near NW. corner of concrete floor of bridge over small creek; chiseled square-----	685.32
Chicago, Burlington & Quincy R. R. crossing; top of rail-----	673.7
Wyanet, 2.2 mi. W. thence 1.4 mi. S. from, near E¼ cor. sec. 25, T. 16 N., R. 7 E., 85 ft. N. of crossing of C. B. & Q. R. R., on W. side of rd., at fence line, in root of 24-in. walnut tree; copper nail and washer---	673.80
Wyanet, 2.2 mi. W. thence 0.5 mi. S. from, near W¼ cor. sec. 19, T. 16 N., R. 8 E., at crossing of C. R. I. & P. Ry., in line with fence on E. side of rd., 10 ft. S. of tracks, 20 ft. N. of S. right-of-way fence of R. R., on W. end of S. concrete head wall of 20-in. tile culvert under tracks; chiseled square <sup>15</sup> -----	619.47
Wyanet, 2.2 mi. W. of, at NW. cor. sec. 19, T. 16 N., R. 8 E., in SE. angle of crossroads, 5 ft. S. of fence corner; standard iron post with bronze cap stamped "Prim Trav Sta No. 20 1929 EB 3"-----	613.787
Reference mark, 75 ft. W. of iron post, in SW. angle of crossroads, 5 ft. W. of fence corner, 0.5 ft. underground; top of cap on 1½-in. iron pipe-----	613.10
Wyanet, 2.2 mi. W. thence 0.5 mi. N. from, near E¼ cor. sec. 13, T. 16 N., R. 7 E., in SW. angle of junction of T-rd. W., 10 ft. W. of fence corner, at fence line; top of cap on small iron pipe-----	651.92

<sup>15</sup> In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "R 51 1934," elevation 619.169 ft.

# 1318 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Wyagnet, 2.2 mi. W. thence 1.5 mi. N. from, near W $\frac{1}{4}$ cor. sec. 7, T. 16 N., R. 8 E., in NE. angle of crossroads, 10 ft. N. and 5 ft. E. from fence corner, in root of 18-in. maple tree; copper nail and washer-----	<i>Feet</i> 704.93
Wyagnet, 2.2 mi. W. thence 2.5 mi. N. from, near W $\frac{1}{4}$ cor. sec. 6, T. 16 N., R. 8 E., in NE. angle of crossroads, 5 ft. E. of fence corner; top of cap on small iron pipe-----	670.66
7. From point 3 miles north and 0.5 mile west from Manlius south 0.2 mile, thence east along township-line road to point 1.3 miles west of Limerick (by E. O. Brooks in 1921)	
[Continued from Walnut quadrangle, line 1]	
Manlius, 2.7 mi. N. and 0.5 mi. W. from, 0.25 mi. E. of NW. cor. sec. 3, T. 17 N., R. 7 E., at junction of T-rd. E., 30 ft. S. of E. end of hedge-row on W. side of N-S. rd., 4 ft. E. of fence; standard iron post with bronze cap stamped "18 EB 1921 693" <sup>10</sup> -----	692.351
Reference mark, 3 ft. S. of iron post, 0.5 ft. underground; top of cap on 1½-in. iron pipe-----	690.87
Chicago & North Western Ry. crossing; top of E. rail-----	698.9
T. 17 N., R. 7 E., 0.27 mi. E. of NW. cor. sec. 2, at junction of T-rd. N., on S. side of rd., 2 ft. S. of fence, on large granite boulder; chiseled square-----	700.06
T. 18 N., R. 7 E., near SW. cor. sec. 36, 535 ft. E. of crossroads, on N. side of rd., in front yard of dwelling of Marcus Anderson, 3 ft. N. of fence, in root of 18-in. maple tree; copper nail and washer-----	719.38
T. 18 N., R. 7 E., 45 ft. NW. of SE. cor. sec. 36, in NW. angle of crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 19 1919 EB 19 778"-----	777.976
Reference mark, 50 ft. SW. of iron post, in SW. angle of crossroads, 2 ft. N. and 36 ft. W. from fence corner, in root of 24-in. maple tree; copper nail and washer-----	778.39
T. 18 N., R. 8 E., near SW. cor. sec. 32, in NE. angle of offset crossroads, 15 ft. SW. of fence corner, on S. end of E. head wall of concrete culvert; chiseled square-----	807.49
T. 18 N., R. 8 E., near SE. cor. sec. 32, on N. side of rd., at junction of T-rd. S., 20 ft. S. of E-W. fence, on N. end of small concrete culvert; chiseled square-----	849.58
T. 18 N., R. 8 E., near SE. cor. sec. 33, in NW. angle of offset crossroads, 10 ft. W. of fence corner; standard iron post with bronze cap stamped "20 EB 1921 799"-----	798.450
T. 18 N., R. 8 E., near SW. cor. sec. 35, in NE. angle of offset crossroads, 4 ft. W. of fence corner, in root of 24-in. boxelder tree; copper nail and washer-----	743.65
T. 18 N., R. 9 E., near SW. cor. sec. 31, in NE. angle of junction of range-line rd. N., 5 ft. E. of fence corner; top of cap on 1½-in. iron pipe (recovered in 1930)-----	741.15

<sup>10</sup> In 1936 this bench mark was tied to U. S. C. & G. S. monel-metal rivet designated "RV 9," elevation 694.208 feet.

# CALUMET QUADRANGLE<sup>17</sup>

[Latitude 41°30'–41°45'; longitude 87°30'–87°45']

## COOK COUNTY

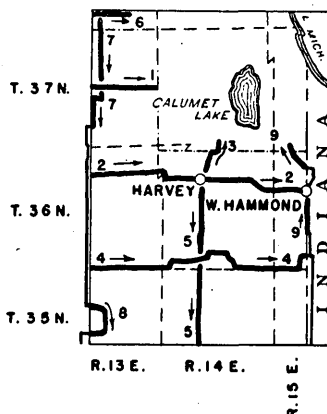


FIGURE 219.—Lines of leveling in Calumet quadrangle.

1. From point 2 miles south of Oak Lawn east along 111th Street to Western Avenue (by W. R. Broadus in 1924)

[Continued from Des Plaines quadrangle, line 2]

Oak Lawn, 2.0 mi. S. thence 0.6 mi. E. from, 3.0 mi. E. of Worth, near SW. cor. sec. 15, T. 37 N., R. 13 E., 32 ft. N. and 226 ft. E. from intersection of 111th Street and Cicero Avenue, 130 ft. E. of concrete culvert, in concrete post; standard tablet stamped "Prim Trav Sta No 7 Y 1924 B 30" (recovered in 1925)-----	Feet 595.132
Reference mark, 135 ft. SW. of tablet, on SE. wing wall of concrete culvert; chiseled square-----	595.00
T. 37 N., R. 13 E., near SE. cor. sec. 15, 40 ft. NW. of intersection of 111th Street and Crawford Avenue, on top of W. head wall of concrete culvert; chiseled square-----	612.12
Chicago, 29 ft. N. and 25 ft. E. from intersection of 111th Street and Central Avenue, near S¼ cor. sec. 14, T. 37 N., R. 13 E., in concrete post; standard tablet stamped "Prim Trav Sta No 49 Y 1924 B 31"---	619.894
Reference mark, 400 ft. SW. of intersection, 6 ft. S. of NE. corner of Central Park School, on sill of basement window; chiseled square---	621.50
Chicago, 50 ft. N. and 30 ft. E. from intersection of 111th Street and Kedzie Avenue, near SW. cor. sec. 13, T. 37 N., R. 13 E., in root on W. side of 12-in. ash tree; copper nail and washer-----	622.22
N. of S. line, 11.5 ft. E. of E. line, in concrete monument; copper bolt (Chicago City B. M. 204) <sup>17a</sup> -----	645.846

<sup>17</sup> Subdivided into 7½-minute quadrangles Calumet City, Blue Island, Harvey, and Calumet Lake, which are mapped on a larger scale.

<sup>17a</sup> In 1942 this bench mark was reported removed.

2. From point 1.8 miles east of Goeselville generally east along 147th Street, Michigan City road, and 154th Street to Illinois-Indiana State line near Hammond, Indiana (by G. F. Williams in 1925)

[Connects with line 7 in Des Plaines quadrangle]

Goeselville, 2.5 mi. E. of, 1.3 mi. W. of Midlothian, near W $\frac{1}{4}$ cor. sec. 10, T. 36 N., R. 13 E., 20 ft. S. and 70 ft. E. from intersection of 147th Street and Cicero Avenue, on top of E. end of S. wing wall of concrete culvert; chiseled square-----	Feet 633.93
Midlothian, 0.25 mi. W. of crossing of Chicago, Rock Island & Pacific Ry., near W $\frac{1}{4}$ cor. sec. 11, T. 36 N., R. 13 E., in NE. angle of intersection of 147th Street and Crawford Avenue, in concrete post; standard tablet stamped "Prim Trav Sta No 57 Y 1924 GW 24"-----	614.965
Reference mark, 20 ft. S. and 30 ft. W. from intersection, on top of SW. wing wall of bridge; chiseled square-----	616.08
Midlothian, in front of C. R. I. & P. Ry. sta.; top of W. rail-----	618.0
Midlothian, 0.8 mi. E. of, near W $\frac{1}{4}$ cor. sec. 12, T. 36 N., R. 13 E., in NE. angle of intersection of 147th Street and Kedzie Avenue, on top of concrete culvert; chiseled square-----	609.81
Midlothian, 1.3 mi. E. of, near center of sec. 12, T. 36 N., R. 13 E., in SW. angle of junction of 147th Street and street S., on top of S. head wall of concrete culvert; chiseled square-----	607.85
Midlothian, 1.9 mi. E. of, 2.0 mi. W. and 0.2 mi. N. from North Harvey, near W $\frac{1}{4}$ cor. sec. 7, T. 36 N., R. 14 E., 29 ft. S. and 50 ft. W. from intersection of 147th Street and Western Avenue, in concrete post; standard tablet stamped "Prim Trav Sta No 56 Y 1924 GW 25" <sup>18</sup> -----	602.611
Reference mark, 900 ft. W. of tablet, 170 ft. E. of Division Street, on top of E. end of S. head wall of concrete culvert; chiseled square-----	605.32
North Harvey, 2.0 mi. W. of, near W $\frac{1}{4}$ cor. sec. 7, T. 36 N., R. 14 E., at intersection of 147th Street and Western Avenue, 20 ft. E. of Western Avenue, on W. side of triangular plot between streets, on N. side of N. line of 147th Street extended, on top of N. head wall of concrete culvert; chiseled cross-----	605.08
North Harvey, 1.5 mi. W. of, near center of sec. 7, T. 36 N., R. 14 E., on E. concrete abutment of Hersey Bridge over drainage ditch, on S. end of S. wing wall; chiseled square-----	602.07
North Harvey, 1.2 mi. W. of 147th Street crossing of Illinois Central R. R., 0.3 mi. E. of center of sec. 7, T. 36 N., R. 14 E., 60 ft. S. of street, in angle formed by streets S. and SE., on SW. side of Grand Trunk Ry., in front of triangular building, on curb; chiseled square (reported destroyed) -----	602.57
North Harvey, 0.3 mi. W. of, at intersection of 147th Street and Austin Avenue, on NE. corner of concrete base of electric traffic signal; chiseled square (reported destroyed)-----	601.11
North Harvey, 370 ft. E. of 147th Street subway under I. C. R. R., 26 ft. S. of street, in concrete post; standard tablet stamped "Prim Trav Sta No. 55 Y 1924 GW 26"-----	597.951
Reference mark, 530 ft. W. of tablet, on first step at W. end of S. concrete abutment of subway under I. C. R. R.; chiseled square-----	598.40

<sup>18</sup> In 1934 this bench mark was reset at an elevation 0.082 ft. lower than that originally determined. The figures given represent the new elevation.

North Harvey, 0.5 mi. E. of, near center of sec. 9, T. 36 N., R. 14 E., at 147th Street bridge over Little Calumet River, on NW. wing wall of W. abutment; chiseled square-----	<i>Feet</i> 595.54
North Harvey, 1.0 mi. E. of, 1.2 mi. W. of Berger sta. on Pennsylvania R. R., near W $\frac{1}{4}$ cor. sec. 10, T. 36 N., R. 14 E., 25 ft. N. and 40 ft. E. from intersection of 147th Street and Indiana Avenue, on NW. end of E. head wall of concrete culvert; chiseled square-----	598.20
Berger, 0.7 mi. W. of, near center of sec. 10, T. 36 N., R. 14 E., in SW. angle of intersection of 147th and State Streets, in top of SW. head wall of concrete culvert; standard tablet stamped "27 GW 1925"---	598.209
Reference mark, in NE. angle of intersection, on NW. end of head wall; chiseled square-----	597.98
Berger, at 147th Street crossing of Pennsylvania R. R.; top of rail---	605.7
Berger, near sta., in NE. angle of intersection of Greenwood rd., on E. head wall of concrete culvert; chiseled square-----	604.24
Berger, 0.6 mi. E. of, near E $\frac{1}{4}$ cor. sec. 11, T. 36 N., R. 14 E., 93 ft. SE. of intersection of 147th Street and Michigan City rd., 4 ft. SE of street marker, in concrete post; standard tablet stamped "Prim Trav Sta No 53 Y 1924 GW 28"-----	606.653
Reference mark, 130 ft. SE. of tablet, at W. entrance to German Methodist Episcopal Church, on N. end of first step; chiseled square	607.10
Berger, 0.6 mi. E. thence 0.8 mi. SE. from, 2.2 mi. W. along 154th Street from Illinois-Indiana State line in Calumet City, near S $\frac{1}{4}$ cor. sec. 12, T. 36 N., R. 14 E., 100 ft. N. and 40 ft. W. from intersection of 154th Street and Michigan City rd., in root on E. side of 12-in. oak tree; copper nail and washer-----	607.10
Calumet City, 1.7 mi. W. of Illinois-Indiana State line, near SE. cor. sec. 12, T. 36 N., R. 14 E., in NW. angle of intersection of 154th Street and Torrence Avenue, in angle formed by walks, in concrete post; standard tablet stamped "29 GW 1925"-----	594.661
Reference mark, 10 ft. S. of tablet, on SW. corner of first section of concrete sidewalk; chiseled square-----	594.51
Calumet City, 0.7 mi. W. of Illinois-Indiana State line, near NW. cor. sec. 17, T. 36 N., R. 15 E., 20 ft. S. and 35 ft. E. from intersection of 154th Street and Burnham Avenue, on curb, 3 in. E. of storm sewer; chiseled square-----	587.76
Calumet City, 26 ft. N. and 27 ft. W. from intersection of Illinois-Indiana State line and 154th Street, in SW. angle of sidewalk intersection, in concrete post; standard tablet stamped "Prim Trav Sta No 51 Y 1924 GW 30"-----	588.742
Reference mark, 15 ft. N. and 20 ft. W. from intersection of Douglas and 154th Streets, at W. end of portal of storm sewer, on circular curb; chiseled square-----	587.44
3. From North Harvey northeast along Illinois Central Railroad to West 138th Street, thence east and north to Riverdale (by G. F. Williams in 1925)	
North Harvey, 0.6 mi. NE. of 147th Street subway, 1.6 mi. SW. of junction of 137th Street and Indiana Avenue in Riverdale, 0.25 mi. E. of W. cor. secs. 4 and 9, T. 36 N., R. 14 E., 25 ft. N. and 80 ft. W. from rd. crossing, in root on E. side of twin cottonwood tree; copper nail and washer-----	598.07

# 1322 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Riverdale, 0.8 mi. SW. of, 0.25 mi. N. of center of sec. 4, T. 36 N., R. 14 E., at overhead crossing of Indiana Harbor Belt R. R., on SW. corner of top step at W. end of S. concrete abutment; chiseled square-----	<i>Feet</i> 612.79
Riverdale, in SW. angle of junction of 137th Street and Indiana Avenue, on top of first concrete step of entrance to saloon; chiseled square-----	600.83
Riverdale, 0.1 mi. N. of Indiana Avenue bridge over Little Calumet River, at junction of 134th Street and Indiana Avenue, 9.5 ft. N. of S. line, 4.4 ft. E. of E. line, in concrete monument; copper bolt (Chicago City B. M. 151)-----	591.331
4. From point 1.3 miles south and 1.7 miles east from Tinley Park generally east along roads by way of Homewood and Thornton to Illinois-Indiana State line near Lansing (by G. F. Williams in 1925)	
[Connects with line 6 in Des Plaines quadrangle]	
Tinley Park, 1.3 mi. S. and 2.5 mi. E. from, 0.3 mi. S. and 3.5 mi. W. from Homewood, near NW. cor. sec. 3, T. 35 N., R. 13 E., 50 ft. S. and 35 ft. E. from intersection of 183rd Street and Cicero Avenue, 8 ft. S. and 3 ft. E. from NW. corner of fence of schoolyard, in root 4 in. underground on NW. side of 8-in. walnut tree; copper nail and washer-----	718.28
Homewood, 0.3 mi. S. and 2.5 mi. W. from, near NW. cor. sec. 2, T. 35 N., R. 13 E., 35 ft. S. and 72 ft. E. from intersection of 183rd Street and Crawford Avenue, in concrete post; standard tablet stamped "Prim Trav Sta No 66 Y 1924" <sup>18a</sup> -----	693.717
Homewood, 0.3 mi. S. and 1.8 mi. E. from, 0.1 mi. E. of S $\frac{1}{4}$ cor. sec. 35, T. 36 N., R. 13 E., on W. end of N. concrete head wall of bridge; chiseled square-----	663.42
Homewood, 0.3 mi. S. and 0.7 mi. W. from, 0.2 mi. W. of NE. cor. sec. 1, T. 35 N., R. 13 E., on top of SW. wing wall of bridge; chiseled square-----	653.86
Homewood, 0.3 mi. S. and 0.4 mi. W. from, near NE. cor. sec. 1, T. 35 N., R. 13 E., 30 ft. S. and 28 ft. W. from junction of 183rd Street and Western Avenue, 7 ft. S. of street marker, in concrete post; standard tablet stamped "Prim Trav Sta No 65 Y 1924" <sup>19</sup> -----	663.808
Reference mark, 35 ft. N. and 60 ft. E. from rd. junction, in root on W. side of 36-in. cottonwood tree; copper nail and washer-----	661.58
Homewood, at 183rd Street subway under I. C. R. R., on NW. corner of first concrete step at W. end of S. abutment; chiseled square-----	652.69
Homewood, in SE. angle of intersection of Maria Street and Vincennes rd., on top of N. end of E. head wall of S. concrete culvert; chiseled square-----	661.53
Homewood, in SW. angle of Main Street and Vincennes rd., 15 ft. NE. of entrance to Cook County Bank, 1 ft. E. of telephone pole, on concrete walk; chiseled square-----	662.61
Homewood, 1.0 mi. E. of, 0.3 mi. S. of center of sec. 32, T. 36 N., R. 14 E., on N. side of Ridge rd., on E. end of N. head wall of concrete culvert; chiseled square-----	636.54

<sup>18a</sup> In 1926 this bench mark was reset at an elevation 0.637 ft. higher than that originally determined. The figures given represent the new elevation.

<sup>19</sup> In 1926 this bench mark was moved 25 ft. south and 28 ft. west from its original location and reset at an elevation 0.765 ft. higher than that originally determined. The figures given represent the new elevation.

Homewood, 1.5 mi. E. of, 0.3 mi. S. and 1.2 mi. W. from Thornton, at Franklin sta. of Chicago & Interurban Ry., 0.15 mi. S. of E $\frac{1}{4}$ cor. sec. 32, T. 36 N., R. 14 E., 59 ft. SW. of intersection of Ridge rd. and Halsted Street, in concrete post; standard tablet stamped "Prim Trav Sta No 63 Y 1924"-----	<i>Feet</i> 638.103
Reference mark, 90 ft. NE. of crossroads, in angle at S. end of N. concrete block, at N. end of two gasoline pumps; chiseled square-----	638.30
Thornton, 0.6 mi. W. of, in NE $\frac{1}{4}$ sec. 33, T. 36 N., R. 14 E., 100 ft. W. of crossing of Baltimore & Ohio R. R., 55 ft. NW. of curve in Ridge rd., 15 ft. S. of fence corner; top of screw holding cap on gas pipe-----	635.57
Thornton, at intersection of Ridge rd. and Main Street, on top of NW. corner of concrete base of electric traffic signal; chiseled square--	627.86
Thornton, at Ridge rd. crossing of Chicago & Eastern Illinois Ry.; top of E. rail of W. track-----	623.2
Thornton, 0.3 mi. E. of, at concrete bridge over Thorn Creek, 29 ft. SE. of SE. end of N. head wall, in concrete post; standard tablet stamped "Prim Trav Sta No 62 Y 1924"-----	604.258
Reference mark, on top of SW. wing wall of W. abutment of bridge over Thorn Creek; chiseled square-----	602.66
Thornton, 1.4 mi. SE. of, near SW. cor. sec. 35, T. 36 N., R. 14 E., 50 ft. E. of N.-S. rd., 15 ft. N. of curve in 183rd Street, in root 4 in. underground on NE. side of 6-in. maple tree; copper nail and washer----	614.84
Thornton, 0.7 mi. S. and 1.8 mi. E. from, 0.4 mi. S. and 1.0 mi. W. from Oak Glen, near NE. cor. sec. 2, T. 35 N., R. 14 E., 25 ft. S. and 20 ft. W. from intersection of 183rd Street and Volbrecht rd., in concrete post; standard tablet stamped "Prim Trav Sta No. 61 Y 1924"-----	618.253
Reference mark, 330 ft. E. of intersection, on N. side of rd., in fork of two cottonwood trees growing together; copper nail and washer---	615.78
Oak Glen, 0.4 mi. S. of, near SW. cor. sec. 31, T. 36 N., R. 15 E., in NE. angle of intersection of 183rd Street and Torrence Avenue, on top of head wall of culvert; chiseled square-----	613.64
Oak Glen, 0.4 mi. S. and 1.0 mi. E. from, 0.5 mi. S. and 0.3 mi. W. from Lansing, near NE. cor. sec. 6, T. 35 N., R. 15 E., 28 ft. S. and 40 ft. W. from intersection of 183rd Street and Burnham Avenue, in concrete post; standard tablet stamped "Prim Trav Sta No 60 Y 1924"-----	614.902
Reference mark, 100 ft. S. of tablet, on W. side of Burnham Avenue, in root on W. side of 30-in. cottonwood tree; copper nail and washer---	613.42
Lansing, 0.2 mi. SE. of intersection of Pennsylvania R. R. and Ridge rd., in SE $\frac{1}{4}$ sec. 32, T. 36 N., R. 15 E., 0.22 mi. W. of Illinois-Indiana State line, in SE. angle of street intersection, on sidewalk, near base of telephone pole; chiseled square-----	625.57

[Continued in Indiana]

5. From North Harvey south along Halsted Street to Chicago Heights (by G. F. Williams in 1924)

Harvey, 30 ft. E. of Halsted Street and 40 ft. W. of Vincennes rd., in SE. angle of intersection, on top of N. end of E. head wall of concrete culvert; chiseled square-----	600.66
Harvey, at Halsted Street crossing of Grand Trunk Ry.; top of rail--	604.3
Harvey, at Halsted Street crossing of B. & O. R. R.; top of S. rail----	604.0
Harvey, in NW. angle of intersection of Halsted and 157th Streets, at base of telephone pole, on curb; chiseled square-----	603.53

## 1324 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Harvey, in SW. angle of intersection of Halsted and 159th Streets, on top of S. end of W. head wall of concrete culvert; chiseled square...	Feet 605.87
Harvey, 1.7 mi. S. and 0.3 mi. E. from, near SW. cor. sec. 21, T. 36 N., R. 14 E., 22 ft. N. and 28 ft. E. from intersection of Halsted and 167th Streets, 6 ft. from culvert, in concrete post; standard tablet stamped "Prim Trav Sta No 64 Y 1924"-----	609.458
Reference mark, 270 ft. N. of tablet, on S. end of E. head wall of concrete culvert; chiseled square-----	610.44
Harvey, 2.2 mi. S. and 0.3 mi. E. from, 1.1 mi. N. of Franklin sta., near quarter corner between secs. 28 and 29, T. 36 N., R. 14 E., in SW. angle of intersection of Halsted and 171st Street, 30 ft. E. of Chicago & Interurban Ry., on top of SW. concrete culvert; chiseled square...	618.42
Glenwood, 0.9 mi. S. of Franklin, near W¼ cor. sec. 4, T. 35 N., R. 14 E., 120 ft. N. of rd. E. to Glenwood Manual Training School, 150 ft. N. of Chicago & Interurban Ry. sta., on top of S. head wall of concrete culvert under driveway; chiseled square-----	623.57
Holbrook, 0.8 mi. S. of Glenwood, 0.25 mi. S. of NW. cor. sec. 9, T. 35 N., R. 14 E., 30 ft. S. and 33 ft. E. from intersection of Halsted Street and Holbrook rd., in concrete post; standard tablet stamped "Prim Trav Sta No 77 Y 1924"-----	631.515
Reference mark, in NW. angle of intersection, on N. end of W. head wall of concrete culvert; chiseled square-----	630.31
Holbrook, 0.9 mi. S. of, 0.15 mi. S. of NW. cor. sec. 16, T. 35 N., R. 14 E., 600 ft. N. of junction of rd. NE., at culvert over Butterfield Creek, on top of N. end of E. head wall; chiseled square-----	638.15
Holbrook, 1.2 mi. S. of, 1.5 mi. N. of Chicago Heights, near E¼ cor. sec. 17, T. 35 N., R. 14 E., 45 ft. S. and 50 ft. W. from intersection of Halsted Street and Joe Orr rd., in concrete post; standard tablet stamped "Prim Trav Sta No 78 Y 1924"-----	643.521
Chicago Heights, 1.0 mi. N. of, near SW. cor. sec. 16, T. 35 N., R. 14 E., on E. end of S. abutment of concrete bridge over Thorn Creek; chiseled square-----	643.86
Chicago Heights, at Halsted Street (West End Avenue), Park Street, and Fifteenth Street, 61 ft. E. of R. R. on Halsted Street, 32 ft. N. of center line of Fifteenth Street, in concrete post; standard tablet stamped "Prim Trav Sta No 79 Y 1924" <sup>10</sup> -----	666.002
Reference mark, 230 ft. SW. of tablet, on W. side of Halsted Street, on curb near manhole; chiseled square-----	665.96
Chicago Heights, 40 ft. S. of Illinois Street and 25 ft. E. of Dixie Highway, 2 ft. S. and 3 ft. W. from mail box, at base of pole, on curb; chiseled square-----	684.42

[Continued in Crete quadrangle, line 3]

6. From point 2 miles north of Oak Lawn east along Seventy-ninth Street 1.5 miles to Crawford Avenue (by S. R. Archer in 1924)

[Continued from Des Plaines quadrangle, line 10]

Oak Lawn, 2.0 mi. N. and 0.5 mi. E. from, 125 ft. N. and 24 ft. E. from intersection of Cicero Avenue and Seventy-ninth Street, in root on S. side of 12-in. poplar tree; copper nail and washer (recovered in 1925)-----	618.92
---	--------

<sup>10</sup> In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "F 27 1934," elevation 689.356 ft.

Oak Lawn, 2.0 mi. N. and 1.5 mi. E. from, near SW. cor. sec. 26, T. 38 N., R. 13 E., 29 ft. N. and 51 ft. E. from intersection of Crawford Avenue and Seventy-ninth Street, in concrete monument; copper bolt (Chicago City B. M. 163)	<i>Feet</i> 617.887
Reference mark, 15 ft. S. and 110 ft. W. from copper bolt, 15 ft. N. and 60 ft. W. from street intersection, in root on SE. side of three-forked poplar tree; copper nail and washer	617.28
7. From crossroads 2 miles north and 0.5 mile east from Oak Lawn alternately south and west along Cicero Avenue, 115th Street, and Laramie Avenue to point 2 miles south and 2.4 miles east from Worth (by S. R. Archer in 1925)	
Oak Lawn, 1.0 mi. N. and 0.5 mi. E. from, near SE. cor. sec. 33, T. 38 N., R. 13 E., in NW. angle of intersection of Cicero Avenue and Eighty-seventh Street, on top of SW. end of W. head wall of concrete culvert; chiseled square	621.23
Oak Lawn, 0.5 mi. E. of, near W. cor. secs. 3 and 10, T. 37 N., R. 13 E., 75 ft. E. of intersection of Cicero Avenue and Ninety-fifth Street, in top of W. end of S. head wall of concrete culvert; standard tablet stamped "Prim Trav Sta No 6 Y 1924" <sup>10a</sup>	617.862
Reference mark, 750 ft. N. and 75 ft. W. from tablet, 180 ft. S. of crossing of Wabash Ry., at concrete bridge over creek, on top of E. head wall, 5.5 ft. N. of S. end; chiseled square	617.70
Oak Lawn, 1.0 mi. S. and 0.5 mi. E. from, near SW. cor. sec. 10, T. 37 N., R. 13 E., 100 ft. N. and 30 ft. E. from intersection of Cicero Avenue and 103rd Street, in root on SW. side of 42-in. willow tree; copper nail and washer	596.48
Oak Lawn, 2.5 mi. in air line S. of, at Hazel Green School, near center of sec. 21, T. 37 N., R. 13 E., 60 ft. S. and 100 ft. W. from junction of 115th Street and Laramie Avenue, on E. side of steps of entrance to schoolhouse, on top of S. end of lower step; chiseled square	622.39
Oak Lawn, 3.3 mi. in air line S. of, 1.4 mi. S. and 2.5 mi. E. from Worth, 700 ft. N. of center of sec. 28, T. 37 N., R. 13 E., 30 ft. N. and 30 ft. W. from junction of Laramie Avenue and T-rd. E., in concrete post; standard tablet stamped "Prim Trav Sta No 8 Y 1924"	613.664
Worth, 2.0 mi. S. and 2.5 mi. E. from, near N. cor. sec. 33, T. 37 N., R. 13 E., on S. side at E. end of E. approach of bridge over Calumet Sag Channel, on top of concrete sidewalk, at foot of E. end of iron railing and at foot of NW. corner of concrete pedestal; chiseled square	599.36

[Continued in Des Plaines quadrangle, line 12]

8. From point 3.2 miles south and 1.7 miles east from Tinley Park east along Vollmer road, thence south along Cicero Avenue, thence west along Lincoln Highway to point 0.5 mile north and 2.5 miles west from Matteson (by S. R. Archer in 1925)

[A jog from Des Plaines quadrangle, line 12]

Tinley Park, 3.2 mi. S. and 2.6 mi. E. from, 2.0 mi. N. and 1.5 mi. W. from Matteson, near SE. cor. sec. 9, T. 35 N., R. 13 E., 30 ft. N. and 30 ft. W. from intersection of Vollmer rd. and Cicero Avenue, on top of concrete base on N. side of signpost; chiseled square	695.93
---	--------

<sup>10a</sup> In 1930 this bench mark was moved 65.4 ft. north and 2 ft. west from the intersection of Cicero Avenue and Ninety-fifth Street and reset in concrete pavement at an elevation 1.160 ft. lower than that originally determined. The figures given represent the new elevation.

# 1326 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Matteson, 1.2 mi. N. and 1.5 mi. W. from, 0.25 mi. N. of SW. cor. sec. 15, T. 35 N., R. 13 E., in SE. angle of junction of Cicero Avenue and private rd. E., on top of collar at S. end of tiled drain under private rd.; chiseled square-----	Feet 703.53
Matteson, 0.5 mi. N. and 1.5 mi. W. from, near W¼ cor. sec. 22, T. 35 N., R. 13 E., 15 ft. N. and 30 ft. E. from intersection of Cicero Avenue and Lincoln Highway, in top of angular head wall at N. end of concrete culvert; standard tablet stamped "Prim Trav Sta No 14 Y 1924"-----	713.435
Reference mark, 15 ft. S. and 35 ft. W. from intersection, on S. head wall of concrete culvert; chiseled square-----	713.14
[Continued in Des Plaines quadrangle, line 12]	
9. From Hammond, Indiana, north along Illinois-Indiana State line and city streets to Gostlin Street crossing of Indiana Harbor Belt Railroad, thence northwest to Hegewisch (by S. R. Archer in 1925)	
[Continued from Indiana]	
Hammond, Ind., at W. boundary of, near SE. cor. sec. 20, T. 36 N., R. 15 E., at intersection of State Line Street and Lawndale Avenue, 37 ft. S. and 24 ft. E. from old rd., 35 ft. S. and 10 ft. W. from newly paved street, in concrete post; standard tablet stamped "Prim Trav Sta No 58 Y 1924" <sup>20</sup> -----	595.086
Calumet City, 1.8 mi. S. of, near E¼ cor. sec. 20, T. 36 N., R. 15 E., 25 ft. S. and 75 ft. W. from intersection of State Line Street and 159th Street, 20 ft. W. of fence corner, in root on NE. side of 10-in. maple tree; copper nail and washer-----	602.02
Calumet City, 1.4 mi. S. of, near E. cor. secs. 17 and 20, T. 36 N., R. 15 E., 165 ft. N. of junction of State Line Street and Michigan City rd., in NE. angle of intersection of State Line Street and Wildwood rd., on concrete curb, 3 ft. N. of corner and in line with W. edge of sidewalk N.; chiseled square-----	607.64
Calumet City, 0.9 mi. S. of, in SE. angle of intersection of State Line and Mason Streets, on concrete curb, 1.5 ft. S. of corner; chiseled square-----	590.59
Calumet City, in NW. angle of intersection of State Line Street and Sibley Boulevard, on concrete curb, in line with S. edge of sidewalk along boulevard; chiseled square-----	590.49
[Line jogs into Indiana]	
Burnham, 1.0 mi. SE. of, 0.2 mi. N. of SE. cor. sec. 5, T. 36 N., R. 15 E., 52 ft. NE. of Gostlin Street crossing of Indiana Harbor Belt R. R., 4 ft. W. of Illinois-Indiana State line, 40 ft. N. and 18 ft. W. from junction of street N., 20 ft. N. and 5 ft. W. from corner of curb, 4.5 ft. W. of concrete post marking corner of R. R. right-of-way, in concrete post; standard tablet stamped "Prim Trav Sta No 50 Y 1924"-----	588.404
Burnham, in NE. part of, near NE. cor. sec. 6, T. 36 N., R. 15 E., in SE. angle of intersection of Brainard and Entre Avenues, 18 ft. S. and 8 ft. E. from corner of curb, on outside corner of sidewalk, at foot of telephone pole; chiseled square-----	588.51
Hegewisch, at SW. corner of intersection of E. 134th and Buffalo Streets, 9 ft. E. of W. line of Buffalo Street, 5 ft. S. of S. line of E. 134th Street, in concrete monument; copper bolt (Chicago City B. M. 140)-----	587.211

<sup>20</sup> In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "C 18 1934," elevation 604.808 ft.

# CHICAGO QUADRANGLE<sup>21</sup>

[Latitude 41°45'–42°00'; longitude 87°30'–87°45']

## COOK COUNTY

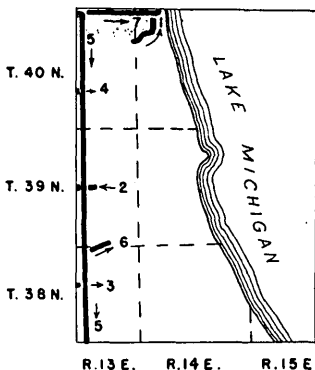


FIGURE 220.—Lines of leveling in Chicago quadrangle.

### 1. In northern part of Chicago (by E. S. Smith in 1897)

Chicago, in SW. corner of intersection of Lincoln and Foster Avenues, Bowmansville suburb, at NE. corner of two-story brick block, on NE. corner of iron doorstep; square cut-----	Feet 610.227
--	-----------------

[Continued in Evanston quadrangle, line 1]

### 2. From intersection of Kostner Avenue and Roosevelt road west along Roosevelt road to point 0.2 mile east of South Laramie Avenue (by F. D. Kramer in 1924)

Chicago, at intersection of Roosevelt rd. and Kostner Avenue, 8.7 ft. S. of N. line, 10 ft. E. of W. line, in concrete monument; copper bolt (Chicago City B. M. 168)-----	602.174
--	---------

Chicago, 46 ft. N. and 42 ft. E. from intersection of South Cicero Avenue and Roosevelt rd., in front of gasoline service sta., in concrete post; standard tablet stamped "Prim Trav Sta No 36 K 1924 K 36" (recovered in 1925) <sup>21a</sup> -----	606.710
--	---------

Reference mark, in NW. corner of intersection, on curb; chiseled square-----	605.78
--	--------

[Continued in Riverside quadrangle, line 4]

### 3. From Latrobe Avenue east along Fifty-fifth Street to South Cicero Avenue (by F. D. Kramer in 1924)

[Continued from Riverside quadrangle, line 11]

Chicago, in NE. corner of intersection of Fifty-fifth Street and South Cicero Avenue, near S. cor. secs. 9 and 10, T. 38 N., R. 13 E., in concrete monument; copper bolt (Chicago City B. M. 164; recovered in 1925)-----	603.282
---	---------

<sup>21</sup> Subdivided into 7½-minute quadrangles Chicago Loop, Englewood, and Jackson Park, which are mapped on a larger scale.

<sup>21a</sup> In 1936 it was reported that the concrete post was broken.

## 4. East along Belmont Avenue near North Cicero Avenue (by F. D. Kramer in 1924)

[Continued from Riverside quadrangle, line 6]

Chicago, in NE. corner of intersection of Belmont and North Cicero Avenues, in concrete monument; copper bolt (Chicago City B. M. 53; recovered in 1925)-----	Feet 611.279
Reference mark, 100 ft. W. of intersection of North Cicero and Belmont Avenues, on N. curb of Belmont Avenue; chiseled square-----	613.13

## 5. From point on Devon Avenue east 0.1 mile to intersection of North Cicero Avenue, thence south along Cicero Avenue to point near intersection of South Cicero Avenue and Seventy-ninth Street (by S. R. Archer in 1924-25)

[Continued from Riverside quadrangle, line 3]

Chicago, 45 ft. S. and 45 ft. W. from intersection of North Cicero and Devon Avenues, near NE. cor. sec. 4, T. 40 N., R. 13 E., in corner of sidewalk intersection, in concrete post; standard tablet stamped "Prim Trav Sta No 40 K 1924 A 78"-----	612.627
Reference mark, 135 ft. N. and 4 ft. W. from tablet, in root on N. side of 24-in. poplar tree; copper nail and washer-----	610.70
Chicago, 25 ft. W. of center line of North Cicero Avenue and 33 ft. NW. of center line of Forest Glen Avenue, in concrete monument; copper bolt (Chicago City B. M. 184)-----	609.902
Chicago, at North Cicero Avenue concrete bridge over N. branch of Chicago River, at base of balustrade of SW. wing wall, on ledge directly over sewer opening; chiseled square-----	603.78
Chicago, 125 ft. N. of intersection of North Cicero and Elston Avenues, on E. side of North Cicero Avenue, at SW. corner of store building owned by R. L. Goodrich, on W. corner at N. end of doorsill of door to second-story apartment; chiseled square-----	612.88
Chicago, 4 ft. W. of E. line of North Cicero Avenue and 5 ft. S. of S. line of Lawrence Avenue, in concrete monument; copper bolt (Chicago City B. M. 69)-----	610.379
Chicago, 35 ft. S. and 95 ft. W. from intersection of North Cicero and Lawrence Avenues, 30 ft. W. of Chicago & North Western Ry., in concrete post; standard tablet stamped "Prim Trav Sta No 39 K 1924" <sup>22</sup> -----	612.030
Chicago, at intersection of North Cicero Avenue, Milwaukee Avenue, and Irving Park Boulevard, 10.7 ft. S. of N. line of Irving Park Boulevard, 11.1 ft. W. of E. line of North Cicero Avenue, in concrete monument; copper bolt (Chicago City B. M. 61)-----	612.951
Chicago, in NE. corner of intersection of North Cicero Avenue and Addison Street, on curb; chiseled square-----	611.65
Chicago, in SW. corner of intersection of North Cicero and Diversey Avenues, on curb; chiseled square-----	611.48
Chicago, in SE. corner of intersection of North Cicero Avenue and Montana Street, at NW. corner of schoolyard, near corner of sidewalk intersection, in concrete post; standard tablet stamped "Prim Trav Sta No 38 K 1924"-----	611.043

<sup>22</sup> In 1927 this bench mark was moved 10 ft. north and 265 ft. west from this position to a point 300 ft. west of Chicago & North Western Ry., in parkway, at north edge of sidewalk, and reset at an elevation 1.210 ft. lower than that originally determined. Figures given represent the new elevation.

Chicago, at intersection of North Cicero and Fullerton Avenues, 14.5 ft. N. of N. line of Fullerton Avenue, 10.7 ft. W. of E. line of North Cicero Avenue, in concrete monument; copper bolt (Chicago City B. M. 54) -----	<i>Feet</i> 609.939
Chicago, in NE. corner of North Cicero and Armitage Avenues, on curb; chiseled square -----	611.38
Chicago, in SE. corner of intersection of North Cicero and North Avenues, 6 ft. S. of S. line of North Avenue, 9.8 ft. W. of E. line of North Cicero Avenue, in concrete monument; copper bolt (Chicago City B. M. 73) <sup>22a</sup> -----	610.334
Chicago, in SE. corner of intersection of North Cicero Avenue and West Division Street, on curb; chiseled square -----	609.60
Chicago, 32 ft. S. and 51 ft. W. from intersection of North Cicero Avenue and Rice Street, at NE. corner of Moe Bros. Garage, in corner of sidewalk intersection, in concrete post; standard tablet stamped "Prim Trav Sta No 37 K 1924" -----	608.016
Chicago, in SE. corner of intersection of North Cicero and Chicago Avenues, 8 ft. W. of E. line of North Cicero Avenue, 12 ft. S. of S. line of Chicago Avenue, in concrete monument; copper bolt (Chicago City B. M. 76) -----	607.661
Chicago, at intersection of North Cicero Avenue and Kinzie Street, at C. & N. W. Ry. overhead bridge, on S. end of concrete base of steel column in center of pavement of North Cicero Avenue, 2 ft. higher than surface of pavement; chiseled square -----	604.86
Chicago, in SE. corner of intersection of Cicero Avenue and Madison Street, on curb; chiseled square -----	607.55
Chicago, on E. side of South Cicero Avenue, 180 ft. S. of intersection of Harrison Street, at base of N. steel column of elevated railway, on NW. corner of concrete base; chiseled square -----	607.35
Chicago, in SW. corner of intersection of South Cicero Avenue and West Sixteenth Street, 4.3 ft. S. of inside edge of E.-W. sidewalk, on curb; chiseled square (reported destroyed) -----	605.10
Chicago, in SE. corner of intersection of South Cicero Avenue and West Twenty-second Street, on curb; chiseled square (reported probably destroyed) -----	603.85
Chicago, in SW. corner of intersection of South Cicero Avenue and Twenty-fifth Place, 65 ft. N. of bridge of Chicago, Burlington & Quincy R. R. spur track NE. to Western Electric Company building, on curb; chiseled square (reported destroyed) -----	597.42
Chicago, in SW. corner of intersection of South Cicero Avenue and West Thirty-first Street, on S. side of West Thirty-first Street, 5 ft. W. of W. curb line of South Cicero Avenue, on curb; chiseled square (reported destroyed) -----	601.87
Chicago, at South Cicero Avenue crossing of Illinois Central R. R., 0.25 mi. N. of W $\frac{1}{4}$ cor. sec. 34, T. 39 N., R. 13 E., 100 ft. N. and 25 ft. E. from crossing, in concrete post; standard tablet stamped "Prim Trav Sta No. 35 K 1924" (reported probably destroyed) -----	600.030
Chicago, at N. abutment of Indiana Harbor Belt Line R. R. bridge over Chicago Sanitary and Ship Canal, on top of W. parapet; chiseled square -----	603.07

<sup>22a</sup> In 1936 this bench mark was tied to U. S. C. & G. S. B. M. designated "T. B. M. 17," elevation 621.567 ft.

Chicago, at S. abutment of Indiana Harbor Belt Line R. R. bridge over Chicago Sanitary and Ship Canal, on top of E. parapet; chiseled square -----	<i>Feet</i> 603.01
Chicago, in SE. corner of intersection of South Cicero Avenue and West Forty-fourth Street, on SW. side of hydrant, on top of valve collar; square cut with file -----	596.29
Chicago, 40 ft. S. and 60 ft. E. from intersection of South Cicero and Archer Avenues, 25 ft. E. of NW. corner entrance to 5365 Archer Avenue, on NE. corner of stone doorstep leading to second story; chiseled square -----	603.33
Chicago, 30 ft. S. and 20 ft. E. from intersection of South Cicero Avenue and West Fifty-ninth Street, 150 ft. S. of tracks of I. H. B. L. R. R., on SW. side of hydrant, on top of valve collar; square cut with file -----	607.53
Chicago, in NE. corner of intersection of South Cicero Avenue and West Sixty-third Street, 13.2 ft. W. of E. line of Cicero Avenue, 13.5 ft. N. of N. line of West Sixty-third Street, in concrete monument; copper bolt (Chicago City B. M. 165) -----	610.416
Chicago, in NE. angle of junction of South Cicero Avenue and street E., near SW. cor. sec. 22, T. 38 N., R. 13 E., 325 ft. S. of junction of private rd. NW., on E. end of tile culvert; chiseled square -----	615.76
Chicago, 63 ft. W. of junction of South Cicero Avenue and State rd., 0.2 mi. N. of E $\frac{1}{4}$ cor. sec. 28, T. 38 N., R. 13 E., 47 ft. NW. of culvert, in concrete post; standard tablet -----	618.554
Reference mark, at rd. junction, on top of S. head wall of concrete culvert; chiseled square -----	621.36

[Connects with line 6 in Calumet quadrangle]

**6. From South Cicero Avenue near Indiana Harbor Belt Line Railroad bridge over Chicago Sanitary and Ship Canal northeast along Chicago & Alton Railroad to Corwith Yards (by S. R. Archer in 1925)**

Chicago, near N. end of Corwith Yards, at NW. abutment of R. R. bridge over Illinois and Michigan Canal; highest point on bottom of square niche cut in quarry-shaped projection, on SE. face of NE. end stone in fourth course below coping or bridge seat course (U. S. C. E. T. B. M. 474) (possibly disturbed) -----	592.085
Chicago, near N. end of Corwith Yards, at NW. abutment of R. R. bridge over Illinois and Michigan Canal, in NE. face of coping of bridge seat course; center punch mark in copper bolt (Sanitary District B. M. 15) <sup>23</sup> -----	597.364

**7. From intersection of North Cicero and Devon Avenues east along Devon Avenue to Greenview Avenue, thence north 0.1 mile (by S. R. Archer in 1925)**

Chicago, 80 ft. E. of crossing of Devon Avenue and Chicago & North Western Ry., near N $\frac{1}{4}$ cor. sec. 3, T. 40 N., R. 13 E., 95 ft. S. of township line, at fence, in root on SW. side of 15-in. elm tree; copper nail and washer -----	608.88
Chicago, in NE. corner of intersection of Devon and North Crawford Avenues, on top of E. angular head wall of concrete culvert under North Crawford Avenue; chiseled cross -----	606.50
Chicago, in NW. corner of intersection of Devon and Lincoln Avenues, on W. head wall of concrete culvert under Lincoln Avenue; chiseled cross -----	599.64

<sup>23</sup> In 1935 it was reported that this bench mark had been destroyed.

Chicago, in SE. corner of intersection of Devon and North Kedzie Avenues, in corner of sidewalk intersection, in concrete post; standard tablet stamped "Prim Trav Sta No 88 K 1924"-----	<i>Feet</i> 595.760
Chicago, in SE. corner of intersection of Devon and North Kedzie Avenues, 97.2 ft. S. and 27.5 ft. E. from N. cor. secs. 1 and 2, T. 40 N., R. 13 E., in sidewalk along E. side of North Kedzie Avenue, in concrete monument; copper bolt (Chicago City B. M. 197)-----	594.683
Chicago, in SE. corner of intersection of Devon and North California Avenues, on curb at corner; chiseled square-----	594.46
Chicago, 146.7 ft. N. of N. line of Devon Avenue, 12.5 ft. W. of E. line of Artesian Avenue, 12 ft. N. and 20 ft. E. from intersection of Artesian Avenue and alley, in concrete monument; copper bolt (Chicago City B. M. 297)-----	594.219
Chicago, in NW. corner of intersection of Devon and North Western Avenues, on curb at corner; chiseled square-----	595.00
Chicago, on S. side of junction of Devon Avenue and North Robey Street, in front of main entrance to Angel Guardian Orphanage, on NW. corner of concrete platform, directly over curb; chiseled square-----	616.12
Chicago, Devon Avenue subway under C. & N. W. Ry., at Ravenswood Avenue, on E. end of concrete base of center steel columns; chiseled square-----	606.72
Chicago, in NE. corner of intersection of Devon Avenue and Paulina Street, 12 ft. S. of N. line of Devon Avenue, 9.6 ft. W. of E. line of Paulina Street, 7.5 ft. E. of corner of curb, in pavement at foot of curb, in concrete monument; copper bolt (Chicago City B. M. 195)---	599.990
Chicago, 40 ft. N. and 15 ft. E. from intersection of Devon and Greenview Avenues, 20 ft. N. of corner of curb, in front of hydrant, on curb; chiseled square-----	589.90

[Continued in Evanston quadrangle, line 4]

# CLINTON QUADRANGLE

[Latitude 41°45'–42°00'; longitude 90°00'–90°15']

## CARROLL AND WHITESIDE COUNTIES

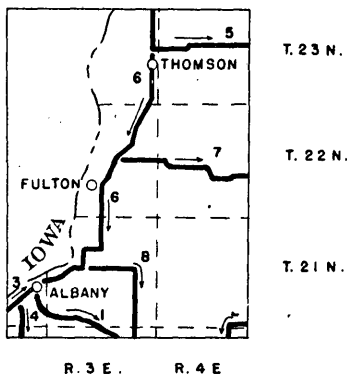


FIGURE 221.—Lines of leveling in Clinton quadrangle.

1. From Albany south and southeast along roads about 6 miles (by G. W. Newell in 1896)

Albany, at corner of intersection of Main Street and first street below Chicago, Milwaukee, St. Paul & Pacific R. R. sta., in W. side of brick store building owned by J. H. Black, 7 in. N. of SW. corner, 30 in. above ground; copper bolt leaded horizontally (U. S. C. E. B. M. 52; recovered in 1941)-----

Feet  
595.438

[Continued in Joslin quadrangle, line 1]

2. From point 3.3 miles south and 1.6 miles west from Morrison along roads west and south to point 1.7 miles north of Fenton (by J. A. Shumate in 1927)

[Continued from Morrison quadrangle, line 2]

Morrison, 3.3 mi. S. and 2.5 mi. W. from, 3.0 mi. N. of Fenton, 0.25 mi. S. of quarter corner between secs. 34 and 35, T. 21 N., R. 4 E., on N. side of rd., opposite T-rd. S., 2 ft. S. of T-fence N.; iron T-bar-----

636.16

[Continued in Joslin quadrangle, line 6]

3. Northeast along river road about 2 miles to Albany (by S. R. Archer in 1930)

[Continued from Goose Lake quadrangle, line 1]

Albany, 2.0 mi. SW. of, at mouth of Meredosia Slough, on S. side of Chicago, Milwaukee, St. Paul & Pacific R. R., on N. side of levee, on NE. corner of top of concrete floodgate control pier; chiseled square-----

586.70

Albany, 1.2 mi. SW. of, 110 ft. NE. of rd. junction, 50 ft. E. of center line of rd., in root on W. side of 30-in. forked elm tree; copper nail and washer-----

581.45

4. From point 1.2 miles southwest of Albany south along road to point about 3 miles south and 1 mile west from Albany (by S. R. Archer in 1980)

Albany, 1.2 mi. SW. thence 1.2 mi. S. from, 0.15 mi. E. of S $\frac{1}{4}$  cor. sec. 35, T. 21 N., R. 2 E., about 440 ft. N. of township line, on old section of E. wing wall of S. concrete abutment of bridge; chiseled square -----

Feet  
578.01

[Continued in Joslin quadrangle, line 10]

5. From point 2.8 miles north of Thomson south 2 miles along State Highway 80, thence east along road to point 0.6 mile west of Ideal (by S. R. Archer in 1980)

[Continued from Savanna quadrangle, line 3]

Thomson, 1.8 mi. N. of, near center of NE $\frac{1}{4}$  sec. 13, T. 23 N., R. 3 E., 50 ft. E. of junction of private rd. E., on S. side of rd., in fence line, 10 ft. E. of fence corner, in root 10 in. underground on W. side of 8-in. locust tree; copper nail and washer ----- 601.69

Thomson, 0.8 mi. N. of, near center of NE $\frac{1}{4}$  sec. 24, T. 23 N., R. 3 E., 30 ft. N. and 36 ft. E. from crossroads, 4.6 ft. E. of telephone pole, in concrete post; standard tablet stamped "T T Sta No 71 JLS 1927 597" (recovered in 1941) ----- 597.014

Reference mark, 35.5 ft. N. and 5 ft. W. from tablet, 65 ft. N. and 30 ft. E. from crossroads, in root on W. side of large forked locust tree; copper nail and washer (recovered in 1941) ----- 597.77

Thomson, 0.8 mi. N. thence 0.7 mi. E. from, 0.25 mi. N. of center of sec. 19, T. 23 N., R. 4 E., 150 ft. W. of junction of T-rd. N., on S. side of rd., at fence line, in root on N. side of forked maple tree; easternmost of row of four trees; copper nail and washer ----- 598.31

Thomson, 0.8 mi. N. thence 1.7 mi. E. from, 0.25 mi. N. of center of sec. 20, T. 23 N., R. 4 E., 50 ft. N. and 140 ft. W. from crossroads, 25 ft. N. of fence corner, in root on SE. side of large forked maple tree, southernmost of row; copper nail and washer ----- 607.90

Thomson, 1.0 mi. N. and 2.1 mi. E. from, 0.15 mi. W. of E. cor. secs. 17 and 20, T. 23 N., R. 4 E., at E. end of bridge over Johnson Creek, on plate at top of N. circular steel pier, on easternmost rivet head; chiseled square ----- 615.42

Chicago, Milwaukee, St. Paul & Pacific R. R. crossing; top of E. rail ----- 622.9

Thomson, 1.0 mi. N. and 3.0 mi. E. from, 2.7 mi. W. of Ideal, 0.25 mi. E. of N $\frac{1}{4}$  cor. sec. 21, T. 23 N., R. 4 E., in SE. angle of crossroads, 50 ft. SW. and 30 ft. E. from junction of rd. E., 18 ft. SW. of fence corner, in concrete post; standard tablet stamped "659" ----- 659.046

Reference mark, 15 ft. SW. of tablet, in notch cut in W. side of trunk of 24-in. boxelder tree; 40-penny spike and washer ----- 659.59

Ideal, 2.5 mi. W. of, 110 ft. E. of W. cor. secs. 15 and 22, T. 23 N., R. 4 E., 110 ft. E. of junction of T-rd. S., on W. end of N. head wall of concrete culvert; chiseled square ----- 672.66

Ideal, 1.5 mi. W. of, near N. cor. secs. 22 and 23, T. 23 N., R. 4 E., in SW. angle of junction of rd. S., in root on NW. side of 40-in. cottonwood tree; copper nail and washer ----- 722.67

Ideal, 0.7 mi. W. of, 0.15 mi. W. of SE. cor. sec. 14, T. 23 N., R. 4 E., on N. side of rd., at fence line, in root on SE. side of 14-in. wild-cherry tree; copper nail and washer ----- 805.94

# 1334 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

[Connects with line 2 in Morrison quadrangle]

6. From crossroads 0.8 mile north of Thomson southwest along State Highway 80 and roads to Albany (by H. S. Hall in 1941; leveled twice from Fulton to point 3 miles northeast of Albany)

Thomson, 600 ft. S. of intersection of State Highway 80 and main street into town, 33 ft. W. of center line of highway, at Methodist Church, on NE. corner of first concrete step; chiseled square-----	Feet 604.87
Thomson, 1.0 mi. S. of, 0.25 mi. W. of NE. cor. sec. 36, T. 23 N., R. 3 E., 154 ft. S. and 36 ft. E. from junction of T-rd. E., on top near center of N. head wall of 36-in. concrete culvert; chiseled square--	596.84
Thomson, 2.0 mi. S. of, 5.6 mi. NE. of Chicago, Milwaukee, St. Paul & Pacific R. R. sta. in Fulton, at Carroll-Whiteside county line, near quarter corner between secs. 1 and 36, Tps. 22 and 23 N., R. 3 E., 0.25 mi. S. of old R. R. chute and watertower, 250 ft. W. of highway, 40 ft. W. of old rd., near fence corner, in concrete post; standard tablet stamped "T T Sta No 72 JLS 1927"-----	594.827
Fulton, 4.5 mi. NE. of, 0.15 mi. E. of W. cor. secs. 1 and 12, T. 22 N., R. 3 E., 48 ft. N. and 27 ft. E. from rd. junction, on NW. end of N. head wall of concrete culvert; chiseled square-----	591.15
Fulton, 3.3 mi. NE. of, in N½ sec. 14, T. 22 N., R. 3 E., 640 ft. S. of junction of rd. W. to lock and dam No. 13, 6 ft. E. of E. edge of pavement, at highway level, on NE. wing wall of bridge over Otter Creek; chiseled square-----	594.77
Fulton, 2.1 mi. NE. of, 540 ft. W. of cor. secs. 14, 15, 22, and 23, T. 22 N., R. 3 E., 30 ft. S. and 20 ft. E. from rd. junction, in concrete post; standard tablet stamped "T T Sta No 73 JLS 1927"-----	588.829
Fulton, at NE. edge of, 25 ft. S. of rd., at concrete culvert over Cat Tail Slough, on E. end of S. head wall, 3.5 ft. lower than rd.; chiseled square-----	584.10
Fulton, 300 ft. S. of C. M. St. P. & P. R. R. sta., 36 ft. S. and 30 ft. E. from junction of T-rd. S., 18 ft. N. and 48 ft. W. from NW. corner of old iron foundry, in concrete post; standard tablet stamped "T T Sta No 76 JLS 1927"-----	589.400
U. S. C. & G. S. standard disk stamped "L 47 1934"-----	588.532
U. S. C. & G. S. standard disk stamped "M 47 1934"-----	589.441
Fulton, 1.4 mi. S. of, near cor. secs. 3, 4, 33, and 34, Tps. 21 and 22 N., R. 3 E., 440 ft. S. of S. end of jog in N.-S. rd., 24 ft. W. of and 4.5 ft. higher than rd., on N. end of NW. wing wall of Chicago & North Western Ry. bridge; chiseled square-----	582.92
Fulton, 2.2 mi. S. of, near NW. cor. sec. 10, T. 21 N., R. 3 E., 24 ft. S. and 16 ft. E. from crossroads, in concrete post; standard tablet stamped "T T Sta No 77 JLS 1927"-----	600.120
U. S. C. & G. S. B. M. designated "T B M 11"-----	589.159
Fulton, 2.6 mi. S. of, at intersection of Chicago, Burlington & Quincy R. R.; top of S. rail-----	616.1
Fulton, 3.3 mi. S. of, near N. cor. secs. 15 and 16, T. 21 N., R. 3 E., 275 ft. W. of junction of E.-W. rd., 20 ft. S. of and 6 ft. lower than rd., on top near center of S. concrete head wall over drain; chiseled square-----	629.40
Fulton, 3.3 mi. S. thence 0.9 mi. W. from, 4.1 mi. NE. of Albany, 0.2 mi. E. of W. cor. secs. 9 and 16, T. 21 N., R. 3 E., 6 ft. S. and 9 ft. W. from junction of N.-S. rd., 540 ft. W. of intersection of State Highway 80, in concrete post; bronze disk stamped "Boundary, Index No 257.4 1-4-41, 516.5" (U. S. C. E. B. M.)-----	588.833

Albany, 3.7 mi. NE. of, 0.2 mi. N. of S. cor. secs. 16 and 17, 2 ft. N. and 96 ft. E. from junction of rds. S. and NE., on top near center of N. head wall of concrete culvert; chiseled square-----	<i>Feet</i> 588.14
Albany, 3.0 mi. NE. of, 2.6 mi. W. of Garden Plain, 0.2 mi. S. of junction of State Highway 80 and County Highway 14, 24 ft. S. and 10 ft. W. from junction of T-rd. N., in concrete post; standard tablet stamped "T T Sta No 78 JLS 1927"-----	606.295
U. S. C. & G. S. B. M. designated "T B M 9"-----	588.683
Albany, 1.0 mi. NE. of, 21 ft. S. and 3 ft. W. from junction of State Highway 80 and rd. E., on N. end of W. head wall of concrete culvert; chiseled square-----	588.32
7. From road junction 2.1 miles northeast of Fulton generally east along roads to point 0.5 mile south and 0.6 mile west from Ustick (by H. S. Hall in 1941; leveled twice)	
Fulton, 2.1 mi. NE. thence 1.7 mi. E. from, near S $\frac{1}{4}$ cor. sec. 13, T. 22 N., R. 3 E., 27 ft. N. and 112 ft. E. from junction of T-rd. N., 3 ft. S. of fence line, in root on SW. side of 24-in. maple tree; nail and washer-----	590.41
Fulton, 1.8 mi. N. and 3.0 mi. E. from, 0.1 mi. E. of W. cor. secs. 18 and 19, T. 22 N., R. 4 E., 12 ft. S. and 490 ft. E. from junction of rd. SW., on top near center of S. head wall of concrete culvert; chiseled square-----	603.47
Fulton, 1.5 mi. N. and 3.9 mi. E. from, 3.5 mi. N. and 2.5 mi. W. from Union Grove, 0.25 mi. S. of N. cor. secs. 19 and 20, T. 22 N., R. 4 E., 25 ft. S. and 30 ft. E. from junction of private rd. S. to residence of W. J. Lawrence, in concrete post; standard tablet stamped "T T Sta No 74 JLS 1927"-----	680.470
Union Grove, 3.5 mi. N. and 2.0 mi. W. from, at Crouch School, 0.25 mi. S. of N $\frac{1}{4}$ cor. sec. 20, T. 22 N., R. 4 E., 46 ft. S. and 87 ft. W. from junction of T-rd. S., on NW. corner of concrete pump base in front of schoolhouse; chiseled square-----	731.40
Union Grove, 3.3 mi. N. and 0.5 mi. W. from, near W $\frac{1}{4}$ cor. sec. 22, T. 22 N., R. 4 E., 25 ft. N. and 20 ft. E. from junction of N.-S. rd., on high bank inside fence, in concrete post; standard tablet stamped "T T Sta No 75 JLS 1927"-----	778.447
Reference mark, 28 ft. S. and 24 ft. W. from rd. junction, 4 ft. N. and 1 ft. W. from fence corner; iron stob-----	772.75
Union Grove, 2.8 mi. N. and 0.5 mi. E. from, 0.8 mi. S. and 1.5 mi. W. from Ustick, near E. cor. secs. 22 and 27, T. 22 N., R. 4 E., 12 ft. N. and 42 ft. W. from junction of rd. S., on top near center of N. head wall of concrete culvert; chiseled square-----	814.21

[Connects with line 2 in Morrison quadrangle]

8. From point 2.6 miles west of Garden Plain along roads east 3.2 miles, thence south about 3.5 miles (by H. S. Hall in 1941)

Garden Plain, 1.2 mi. W. of intersection of highway and R. R., 0.25 mi. E. of NW. cor. sec. 22, T. 21 N., R. 3 E., 14 ft. S. and 56 ft. E. from intersection of County Highway 14 and N.-S. rd., on top near center of S. head wall of concrete culvert; chiseled square-----	691.45
---	--------

# 1336 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Garden Plain, at SE. edge of, near quarter corner between secs. 14 and 23, T. 21 N., R. 3 E., 15 ft. N. and 30 ft. E. from intersection of County Highway 14 and Chicago, Burlington & Quincy R. R., in top near center of N. head wall of concrete culvert; standard tablet stamped "1 H 1941"-----	<i>Feet</i> 707.394
Garden Plain, 0.6 mi. E. of, near NE. cor. sec. 23, T. 21 N., R. 3 E., 27 ft. S. and 17 ft. W. from crossroads, on top near center of W. head wall of concrete culvert; chiseled square-----	719.67
Garden Plain, 0.6 mi. E. thence 0.4 mi. S. from, at intersection of C. B. & Q. R. R.; top of S. rail-----	725.0
Garden Plain, 0.6 mi. E. thence 1.0 mi S. from, near NE. cor. sec. 26, T. 21 N., R. 3 E. 54 ft. S. and 15 ft. W. from junction of T-rd. W., on S. end of highest part of curved concrete retaining wall; chiseled square-----	738.89
Garden Plain, 0.6 mi. E. thence 2.0 mi. S. from, near NE. cor. sec. 35, T. 21 N., R. 3 E., 148 ft. S. and 26 ft. W. from crossroads, 31 ft. S. of gate to barnyard, 8 ft. E. of fence line, in root on NE. side of 30-in. maple tree, second from N. in row of trees; nail and washer-----	739.10
Garden Plain, 0.6 mi. E. thence 3.0 mi. S. from, near cor. secs. 1, 2, 35, and 36, Tps. 20 and 21 N., R. 3 E., 300 ft. N. and 8 ft. W. from rd. junction, on W. head wall of concrete bridge over creek, 30 in. S. of N. end of head wall; top of 1-in. iron reinforcement bar-----	674.43

----- [Connects with line 10 in Joslin quadrangle]

# CRETE QUADRANGLE <sup>23a</sup>

[Latitude 41°15'–41°30'; longitude 87°30'–87°45']

COOK, KANKAKEE, AND WILL COUNTIES

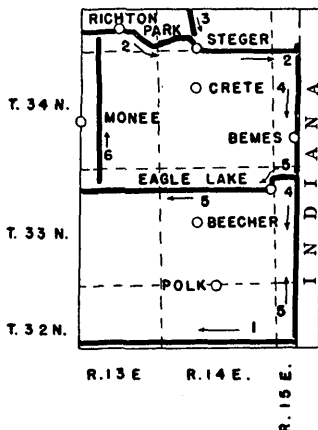


FIGURE 222.—Lines of leveling in Crete quadrangle.

1. From point 1.4 miles north and 1 mile east from Sherburnville north along Illinois-Indiana State line 0.2 mile, thence west to point 1.2 miles west of Whitaker (by S. R. Archer in 1922; first 4 miles releveled by W. C. Elledge in 1940)

[Continued from Momence quadrangle, line 4]

Sherburnville, 1.6 mi. N. and 1.0 mi. E. from, 20 ft. E. of center line of Illinois-Indiana State-line rd., at junction of T-rd. W., on line between fractional secs. 17 and 20 extended, T. 32 N., R. 15 E.; standard iron post with bronze cap stamped "Prim Trav Sta No 38 W 1921 A 86" <sup>23b</sup>	Feet 679.657
Reference mark, 65 ft. N. and 25 ft. W. from junction of T-rd. W., in root on SE. side of 12-in. walnut tree; copper nail and washer (recovered in 1941)	680.02
Sherburnville, 1.6 mi. N. and 0.6 mi. E. from, 0.23 mi. E. of N¼ cor. sec. 19, T. 32 N., R. 15 E., 1,200 ft. E. of crossroads, on S. head wall of culvert; chiseled square (established in 1940)	691.74
Sherburnville, 1.6 mi. N. and 0.4 mi. E. from, near N¼ cor. sec. 19, T. 32 N., R. 15 E., in SW. angle of crossroads, at corner of hedge-rows, in root 4 in. underground and 8 in. N. of trunk of small hedge tree; copper nail and washer (not recovered in 1940)	695.46
Sherburnville, 1.6 mi. N. and 0.4 mi. W. from, 0.25 mi. W. of SE. cor. sec. 13, T. 32 N., R. 14 E., in NW. angle of crossroads, in fence corner, in bent trunk of 8-in. hedge tree; copper nail and washer	689.42

<sup>23a</sup> Subdivided into 7½-minute quadrangles Dyer and Steger, which are partially mapped on a larger scale.

<sup>23b</sup> This bench mark is in Indiana. In 1941 additional leveling indicated that this bench mark was 0.338 ft. higher than originally determined. The figures given represent the new elevation.

## 1338 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

T. 32 N., R. 14 E., near NW. cor. sec. 24, 110 ft. SE. of crossroads, 60 ft. SE. of fence corner, in field, in root 6 in. underground on NW. side of 24-in. catalpa tree; copper nail and washer (not recovered in 1940)-----	<i>Feet</i> 690.45
T. 32 N., R. 14 E., near NW. cor. sec. 24, 110 ft. SE. of crossroads, in root on NE. side of 24-in. catalpa tree; copper nail and washer (established in 1940)-----	691.34
T. 32 N., R. 14 E., 675 ft. E. of NW. cor. sec. 23, on S. side of rd., 115 ft. W. of house, on W. side of driveway to barn, in root on NE. side of northernmost tree in row of maple trees; copper nail and washer (not recovered in 1940)-----	698.14
T. 32 N., R. 14 E., 0.1 mi. E. of N $\frac{1}{4}$ cor. sec. 22, 500 ft. E. of crossroads, on S. side of rd., at fence line, on concrete retaining wall; chiseled square (established in 1940)-----	691.83
T. 32 N., R. 14 E., near N $\frac{1}{4}$ cor. sec. 22, 0.6 mi. N. and 2.5 mi. E. from Grant Park, 21 ft. S. and 35 ft. W. from crossroads, in concrete post; aluminum tablet stamped "Prim Trav Sta No 37 W 1921 A 87" (not recovered in 1940)-----	696.344
Reference mark, 50 ft. N. and 35 ft. W. from crossroads, in yard of dwelling, in root on SW. side of 12-in. apple tree; copper nail and washer (not recovered in 1940)-----	697.88
Grant Park, 0.6 mi. N. and 1.8 mi. E. from, 0.18 mi. W. of SE. cor. sec. 16, T. 32 N., R. 14 E., at E. stone abutment of bridge over Pike Creek, on N. end of bridge seat; chiseled square-----	670.30
Grant Park, 0.6 mi. N. and 1.0 mi. E. from, near SE. cor. sec. 17, T. 32 N., R. 14 E., in NW. angle of crossing of State Highway 1, on N. head wall of concrete culvert under rd. W.; chiseled square-----	706.20
Grant Park, 0.6 mi. N. of, near NE. cor. sec. 19, T. 32 N., R. 14 E., 20 ft. S. and 40 ft. W. from crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 36 W 1921 A 88"-----	709.940
Reference mark, in SE. angle of crossroads, 10 ft. E. of NW. corner of yard of dwelling, on yard side of fence, in root 3 in. underground on W. side of 10-in. maple tree; copper nail and washer-----	709.24
Grant Park, 0.6 mi. N. and 1.0 mi. W. from, near NE. cor. sec. 24, T. 32 N., R. 13 E., 110 ft. S. and 40 ft. W. from crossroads, 35 ft. N. and 7 ft. W. from SE. corner of schoolyard, in root on W. side of three-forked willow tree; copper nail and washer-----	678.43
Grant Park, 0.6 mi. N. and 2.0 mi. W. from, 2.3 mi. E. of Whitaker, near SW. cor. sec. 13, T. 32 N., R. 13 E., on N. side of rd., in fence corner, on E. side of section-line fence, in root on S. side of 15-in. ash tree; copper nail and washer-----	708.87
Whitaker, 1.3 mi. E. of, near NW. cor. sec. 23, T. 32 N., R. 13 E., 30 ft. S. and 40 ft. E. from crossroads, in concrete post; aluminum tablet stamped "Prim Trav Sta No 35 W 1921 A 77"-----	708.020
Reference mark, 40 ft. S. and 40 ft. E. from crossroads, at fence line, in root on N. side of 12-in. maple tree; copper nail and washer-----	708.49
Whitaker, 0.3 mi. E. of, near SW. cor. sec. 15, T. 32 N., R. 13 E., in NE. angle of crossroads, 10 ft. E. of fence corner, inside fence, in root on SW. side of 15-in. maple tree; copper nail and washer-----	701.66
Whitaker, at crossing of Chicago, Milwaukee & Gary Ry., just N. of sta.; top of W. rail-----	694.8
Whitaker, 0.7 mi. W. of, near SW. cor. sec. 16, T. 32 N., R. 13 E., 40 ft. N. and 60 ft. E. from crossroads, in orchard, in root on S. side of 12-in. maple tree; copper nail and washer-----	685.37

[Connects with line 1 in Peotone quadrangle]

2. From point 2.1 miles west of Richton Park generally east along Sauk Trail and Cook-Will county-line road to Illinois-Indiana State line (by S. R. Archer in 1925; last 2 miles releveled by W. L. Uitti in 1934)

[Connects with line 4 in Peotone quadrangle]

Richton Park, 1.2 mi. W. of, 1.0 mi. S. and 6.0 mi. E. from Frankfort, near SE. cor. sec. 28, T. 35 N., R. 13 E., 37 ft. N. and 40 ft. W. from intersection of Sauk Trail and South Cicero Avenue, 22 ft. SE. of SE. corner of German Lutheran Church, in concrete post; standard tablet stamped "Prim Trav Sta No 76 Y 1924" (recovered in 1940)-----	Feet 734.846
Reference mark, on NE. corner of concrete platform at entrance to German Lutheran Church; chiseled square (recovered in 1940)-----	736.11
Richton Park, 450 ft. W. of junction of Sauk Trail and Crawford Avenue, near N. cor. secs. 34 and 35, T. 35 N., R. 13 E., 6 ft. E. of SE. corner of concrete bridge, on top of W. end of concrete retaining wall; chiseled square.-----	708.85
Richton Park, at Sauk Trail subway under Illinois Central R. R., on top of lower step of N. concrete abutment at W. entrance; chiseled square <sup>24</sup> -----	715.32
Richton Park, 0.3 mi. E. of, near S¼ cor. sec. 26, T. 35 N., R. 13 E., 32 ft. N. and 40 ft. E. from junction of T-rd. N., 3 ft. S. and 10 ft. E. from fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 75 Y 1924"-----	719.100
Richton Park, 1.2 mi. SE. of, 0.25 mi. NW. of center of sec. 36, T. 35 N., R. 13 E., 250 ft. NW. of curve, on SE. end of NE. head wall of concrete culvert; chiseled square.-----	711.55
Richton Park, 1.9 mi. SE. of, 0.3 mi. N. and 2.0 mi. W. from Steger, 0.2 mi. S. of W¼ cor. sec. 31, T. 35 N., R. 14 E., 48 ft. S. and 51 ft. E. from intersection of Sauk Trail and Western Avenue, in concrete post; standard tablet stamped "Prim Trav Sta No 74 Y 1924" <sup>25</sup> -----	706.018
Reference mark, 25 ft. S. and 50 ft. E. from crossroads, in root on NE. side of 30-in. locust tree; copper nail and washer.-----	706.72
Steger, 0.7 mi. N. and 1.0 mi. W. from, 0.2 mi. N. of E¼ cor. sec. 31, T. 35 N., R. 14 E., 35 ft. S. and 160 ft. W. from junction of Sauk Trail and Kings rd., in root on SE. side of 36-in. oak tree; copper nail and washer.-----	718.54
Steger, 0.7 mi. N. of, at South Chicago Heights, 70 ft. N. and 30 ft. E. from intersection of State Highway 1 and Old Lincoln Highway, in front of garage of M. Burgel, on S. end of concrete base of gasoline pump; chiseled square.-----	716.86
Steger, in NE. angle of intersection of State Highway 1 and Thirty-second Street, on E. end of S. angular wall of N. head wall of concrete culvert; chiseled square.-----	703.66
Steger, 27 ft. N. and 30 ft. W. from traffic signal post at intersection of State Highway 1 and Thirty-fourth Street (Steger rd.), in front of First State Bank, at SE. corner of sidewalk intersection, in concrete post; standard tablet stamped "Prim Trav Sta No 73 Y 1924"-----	714.661

<sup>24</sup> In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "D 27 1934," elevation 701.406 ft.

<sup>25</sup> In 1927 this bench mark was moved 24.25 ft. S. 14° E. from its original position and reset 0.013 ft. higher in elevation. The figures given represent the new elevation.

Steger, 0.6 mi. E. of, on Cook-Will county-line rd. (Steger rd.), 0.07 mi. W. of N $\frac{1}{4}$ cor. sec. 4, T. 34 N., R. 14 E., in SW. angle of junction of street S., on top of angular head wall of concrete culvert; chiseled square-----	<i>Feet</i> 708.05
Steger, 1.0 mi. E. of, 0.12 mi. W. of NE. cor. sec. 4, T. 34 N., R. 14 E., in SW. angle of intersection of Steger rd. and State Street, on W. angular head wall of concrete culvert; chiseled cross-----	700.58
Steger, 1.5 mi. E. of, near S $\frac{1}{4}$ cor. sec. 34, T. 35 N., R. 14 E., 60 ft. N. of rd., on E. bank of Deer Creek, in line with E. abutment of bridge, in root on NW. side of ash tree; copper nail and washer-----	665.50
Steger, 2.5 mi. E. of, near S $\frac{1}{4}$ cor. sec. 35, T. 35 N., R. 14 E., 35 ft. N. and 45 ft. W. from junction of Steger rd. and Cottage Grove Avenue, 10 ft. N. and 3 ft. W. from fence corner, in field, in concrete post; standard tablet stamped "Prim Trav Sta No 72 Y 1924"-----	678.552
Reference mark, 190 ft. E. of tablet, on top near center of N. head wall of concrete culvert; chiseled square-----	676.65
Steger, 3.2 mi. E. of, near NW. cor. sec. 1, T. 34 N., R. 14 E., in SE. angle of junction of T-rd. S., on E. head wall of concrete culvert under rd. S.; chiseled square-----	696.72
Steger, 4.1 mi. E. of, near SE. cor. sec. 36, T. 35 N., R. 14 E., 28 ft. N. and 31 ft. W. from junction of Steger rd. and Torrence Avenue, 3 ft. N. and 5 ft. W. from fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 71 Y 1924"-----	677.221
Reference mark, 500 ft. W. of tablet, on top of E. end of N. concrete head wall of tile culvert; chiseled square-----	657.28
Steger, 4.2 mi. E. of, near NE. cor. sec. 1, T. 34 N., R. 14 E., in SW. angle of junction of T-rd. S., on S. head wall of concrete culvert; chiseled square-----	659.16
Steger, 5.1 mi. E. of, near SE. cor. sec. 31, T. 35 N., R. 15 E., 30 ft. N. and 25 ft. W. from junction of Steger rd. and Burnham Avenue, in root on SW. side of 24-in. oak tree; copper nail and washer-----	670.48
Steger, 5.4 mi. E. of, 0.33 mi. E. of SW. cor. fractional sec. 32, T. 35 N., R. 15 E., at concrete bridge over Plum Creek, on N. wing wall of E. abutment; chiseled square-----	646.64
Steger, 5.8 mi. E. of, 2.0 mi. S. and 0.4 mi. W. from Dyer, Ind., near SE. cor. fractional sec. 32, T. 35 N., R. 15 E., 20 ft. N. and 13 ft. W. from intersection of Cook-Will county line and Illinois-Indiana State line, 2 ft. S. and 13 ft. W. from fence corner, at right-angle turn in rd., in concrete post; standard tablet stamped "Prim Trav Sta No 70 Y 1924"-----	654.210

[Continued in Indiana]

3. From Chicago Heights south along State Highway 1 to Steger  
(by G. F. Williams in 1925)

[Continued from Calumet quadrangle, line 5]

Chicago Heights, at crossing of State Highway 1 and Michigan Central R. R.; top of N. rail of N. track-----	688.0
Chicago Heights, at crossing of State Highway 1 and Elgin, Joliet & Eastern Ry.; top of N. rail of N. track-----	696.2

4. From east corner of Cook and Will Counties south along Illinois-Indiana State-line road to road junction 5 miles south of Bemis (by W. L. Uitti in 1934)

Steger, 1.0 mi. S. and 5.8 mi. E. from, 3.5 mi. N. of Bemis, near NE. cor. fractional sec. 8, T. 34 N., R. 15 E., 75 ft. S. and 24 ft. W. from junction of T-rd. E., 190 ft. S. of fence corner, 1 ft. E. of fence, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "21 23 1934"-----	Feet 736.203
Bemis, 2.5 mi. N. of, 5.5 mi. E. of Crete, near E. cor. fractional secs. 8 and 17, T. 34 N., R. 15 E., 25 ft. N. and 57 ft. W. from junction of rd. W., 25 ft. N. and 35 ft. W. from concrete highway culvert; standard iron post with bronze cap stamped "Prim Trav Sta No 42 W 1921"----	681.683
Bemis, 1.2 mi. N. of, 0.26 mi. S. of NE. cor. fractional sec. 20, T. 34 N., R. 15 E., 215 ft. N. of private rd. to dwelling of August Seeger, 26 ft. W. of rd., in NE. corner of yard, in root on NE. side of 36-in. cottonwood tree; iron nail and two washers-----	687.15
Bemis, 0.5 mi. N. of, near E. cor. fractional secs. 20 and 29, T. 34 N., R. 15 E., 50 ft. S. and 25 ft. E. from junction of rd. E., 31 ft. S. of fence corner, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "21 24 1934"-----	699.974
Bemis, 180 ft. N. and 21 ft. E. from junction of rd. W., in NW. corner of yard of dwelling of Mrs. Louis Guritz, 3 ft. S. and 21 ft. E. from corner of garden fence, in root on SW. side of 20-in. maple tree; iron nail and two washers <sup>21</sup> -----	722.38
Bemis, 1.0 mi. S. of, 24 ft. N. and 15 ft. E. from E $\frac{1}{4}$ cor. fractional sec. 32, T. 34 N., R. 15 E., in concrete post; standard tablet stamped "Prim Trav Sta No. 41 W 1921" <sup>21</sup> -----	728.352
Bemis, 2.0 mi. S. of, near E $\frac{1}{4}$ cor. fractional sec. 5, T. 33 N., R. 15 E., 62 ft. S. and 18 ft. E. from crossroads, in root on NW. side of 18-in. maple tree; iron nail and two washers (recovered in 1940) <sup>21</sup> -----	750.72
Bemis, 2.6 mi. S. of, 1.5 mi. in air line E. of Eagle Lake, near E. cor. fractional secs. 5 and 8, T. 33 N., R. 15 E., 20 ft. W. of rd., 14 ft. S. of fence corner, 1 ft. E. of fence, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "21 25 1934" (recovered in 1940)-----	732.435
Bemis, 3.8 mi. S. of, 845 ft. S. and 40 ft. E. from junction of rd. E., in root on W. side of 30-in. maple tree; nail and two washers <sup>21</sup> -----	727.23
Bemis, 4.8 mi. S. of, 5.5 mi. E. of Beecher, 45 ft. N. and 15 ft. E. from E. cor. fractional secs. 17 and 20, T. 33 N., R. 15 E., at junction of rd. W.; standard iron post with bronze cap stamped "Prim Trav Sta No 40 W 1921" (recovered in 1940) <sup>21</sup> -----	737.685
Bemis, 5.0 mi. S. of, 0.26 mi. S. of NE. cor. fractional sec. 20, T. 33 N., R. 15 E., 27 ft. S. and 150 ft. W from junction of private rd. to garden, 25 ft. N. of dwelling of Theo. Somaedke, in root on NE. side of 24-in. maple tree; iron nail and two washers-----	727.01

<sup>21</sup> This bench mark is in Indiana.

# 1342 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

5. From point 1.6 miles north and 1 mile east from Sherburnville north along Illinois-Indiana State-line road to road junction 2 miles south of Bemes, thence generally west by way of Eagle Lake to point 3.2 miles south of Monee (by W. C. Elledge in 1940; leveled twice)

Sherburnville, 2.4 mi. N. and 1.0 mi. E. from, 4.5 mi. E. thence 2.1 mi. S. from Polk, 0.1 mi. S. of NE. cor. fractional sec. 17, T. 32 N., R. 15 E., on E. head wall of concrete culvert; chiseled square <sup>28</sup> -----	Feet 698.71
Polk, 4.5 mi. E. thence 0.8 mi. S. from, 0.15 mi. N. of SE. cor. fractional sec. 5, T. 32 N., R. 15 E., 800 ft. N. of junction of rd. E., on top at center of W. head wall of concrete culvert; chiseled square-----	688.49
Polk, 4.5 mi. E. of, near SE. cor. fractional sec. 32, T. 33 N., R. 15 E., 24 ft. N. and 25 ft. E. from junction of rd. W. along Kankakee-Will county line, in concrete post; aluminum tablet stamped "Prim Trav Sta No 39 W 1921" <sup>28</sup> -----	731.911
Polk, 4.5 mi. E. thence 1.0 mi. N. from, near E. cor. fractional secs. 29 and 32, T. 33 N., R. 15 E., 21 ft. S. and 33 ft. E. from junction of rd. E., in root on S. side of 12-in. wild-cherry tree; copper nail and washer <sup>28</sup> -----	722.83
Polk, 4.5 mi. E. thence 2.0 mi. N. from, near NE. cor. fractional sec. 29, T. 33 N., R. 15 E., 250 ft. S. of junction of T-rd. W., on top at center of W. head wall of concrete culvert; chiseled square-----	703.20
Polk, 4.5 mi. E. thence 3.8 mi. N. from, 1.2 mi. S. and 1.5 mi. E. from Eagle Lake, 0.19 mi. S. of NE. cor. fractional sec. 17, T. 33 N., R. 15 E., 300 ft. S. of dwelling, on E. side of rd., at fence line, in root on S. side of 20-in. maple tree; copper nail and washer <sup>30</sup> -----	732.79
Eagle Lake, 0.5 mi. N. of, near W¼ cor. sec. 6, T. 33 N., R. 15 E., 150 ft. S. of junction of T-rd. E., on E. side of rd., 2 ft. N. and 6 ft. E. from SW. corner of schoolyard, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "8 E 1940 741"-----	741.138
Eagle Lake, in N. part of, near SE. cor. sec. 1, T. 33 N., R. 14 E., in NW. angle of junction of T-rd. W., in schoolyard, 3 ft. E. of pump, on concrete platform of well; chiseled square-----	725.58
Eagle Lake, 1.0 mi. W. of, near NW. cor. sec. 12, T. 33 N., R. 14 E., 30 ft. S. and 165 ft. E. from crossroads, in root on N. side of 20-in. boxelder tree; copper nail and washer-----	723.33
Eagle Lake, 1.8 mi. W. of, 0.25 mi. W. of N¼ cor. sec. 11, T. 33 N., R. 14 E., 150 ft. W. of junction of T-rd. N., on SE. wing wall of small steel bridge; chiseled square-----	706.73
Eagle Lake, 3.2 mi. W. of, 2.0 mi. N. and 0.8 mi. E. from Beecher, 0.25 mi. W. of SE. cor. sec. 4, T. 33 N., R. 14 E., 500 ft. W. of crossing of Chicago, Milwaukee, St. Paul & Pacific R. R., in SW. corner of schoolyard, 33 ft. S. and 48 ft. W. from SW. corner of schoolhouse, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "9 E 1940 743"-----	743.010
Beecher, 2.0 mi. N. and 0.5 mi. E. from, near N¼ cor. sec. 9, T. 33 N., R. 14 E., 51 ft. S. and 16 ft. E. from crossroads, on E. head wall of concrete culvert under State Highway 1; chiseled square-----	746.30
Beecher, 2.0 mi. N. of, near N. cor. secs. 8 and 9, T. 33 N., R. 14 E., 600 ft. E. of crossing of Chicago & Eastern Illinois R. R., 27 ft. S. of rd., in line with fence S., in root on N. side of 20-in. cottonwood tree; copper nail and washer-----	744.58

<sup>28</sup> This bench mark is in Indiana.

Beecher, 2.0 mi. N. and 1.0 mi. W. from, near SW. cor. sec. 5, T. 33 N., R. 14 E., 138 ft. E. and 26 ft. N. from crossroads, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "10 E 1940 738"-----	<i>Feet</i> 737.955
Beecher, 2.0 mi. N. and 2.0 mi. W. from, near SE. cor. sec. 1, T. 33 N., R. 13 E., 65 ft. N. and 31 ft. W. from crossroads, in root on S. side of 12-in. boxelder tree; copper nail and washer-----	749.12
Beecher, 2.0 mi. N. and 3.0 mi. W. from, near SW. cor. sec. 1, T. 33 N., R. 13 E., 34 ft. N. and 45 ft. E. from crossroads, in SE. corner of schoolyard, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "11 E 1940 752"-----	751.932
Beecher, 2.0 mi. N. and 4.0 mi. W. from, 3.2 mi. S. and 2.0 mi. E. from Monee, near NW. cor. sec. 11, T. 33 N., R. 13 E., 300 ft. E. of crossroads, on S. side of rd., in NW. corner of lot, in root 3 ft. N. of trunk of 24-in. willow tree; copper nail and washer-----	657.41
Monee, 3.2 mi. S. and 1.0 mi. E. from, near NW. cor. sec. 10, T. 33 N., R. 13 E., 24 ft. S. and 150 ft. E. from crossroads, in root on NW. side of 24-in. cottonwood tree; copper nail and washer-----	716.31
Monee, 3.2 mi. S. and 0.4 mi. E. from, near N $\frac{1}{4}$ cor. sec. 9, T. 33 N., R. 13 E., 30 ft. S. and 49 ft. E. from junction of private rd. S., in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "12 E 1940"-----	717.072
Reference mark, 45 ft. SW. of tablet, in root on N. side of 20-in. pine tree; copper nail and washer-----	718.39

[Continued in Peotone quadrangle, line 7]

6. From crossroads 3.2 miles south and 1 mile east from Monee north along road to crossroads 1.2 miles west of Richton Park ( by W. C. Elledge in 1940)

Monee, 2.2 mi. S. and 1.0 mi. E. from, near NE. cor. sec. 4, T. 33 N., R. 13 E., 24 ft. S. and 57 ft. W. from crossroads, in root on N. side of 20-in. tree; copper nail and washer-----	765.91
Monee, 0.7 mi. S. and 1.0 mi. E. from, 200 ft. S. of E $\frac{1}{4}$ cor. sec. 28, T. 34 N., R. 13 E., in W. head wall of concrete culvert; standard tablet stamped "14 E 1940"-----	766.348
Monee, 1.0 mi. E. of, near W $\frac{1}{4}$ cor. sec. 22, T. 34 N., R. 13 E., 230 ft. N. and 26 ft. E. from crossroads, in root on E. side of 15-in. ash tree; copper nail and washer-----	792.59
Monee, 1.4 mi. N. and 1.0 mi. E. from, 0.25 mi. S. from NW. cor. sec. 15, T. 34 N., R. 13 E., 36 ft. N. and 24 ft. E. from junction of T-rd. E., in root on N. side of 20-in. willow tree; copper nail and washer-----	777.13
Monee, 2.0 mi. along State Highway 49 NE. of, 0.25 mi. W. of SE. cor. sec. 9, T. 34 N., R. 13 E., about 800 ft. SW. of junction of State Highway 50, in NE. angle of crossroads, in concrete culvert; standard tablet stamped "15 E 1940"-----	778.974
Monee, 2.1 mi. NE. of, 0.2 mi. W. of SE. cor. sec. 4, T. 34 N., R. 13 E., on State Highway 50, 620 ft. N. of crossroads, 36 ft. S. and 27 ft. W. from junction of private rd. W., on W. head wall of concrete culvert; chiseled square-----	780.97
Monee, 3.1 mi. NE. of, 1.0 mi. S. and 1.2 mi. W. from Richton Park, 800 ft. N. of SW. cor. sec. 34, T. 35 N., R. 13 E., on E. side of South Cicero Avenue, 6 ft. N. and 21 ft. E. from junction of private rd. E., on N. head wall of concrete culvert; chiseled square-----	744.10

# DARLINGTON QUADRANGLE<sup>29</sup>

[Latitude 42°30'–42°45'; longitude 90°00'–90°15']

## JO DAVIESS COUNTY

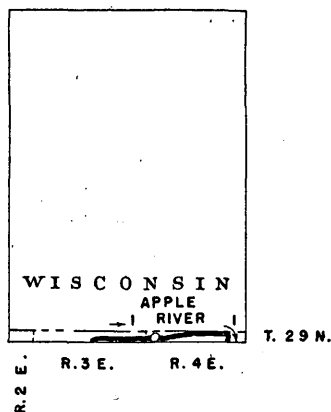


FIGURE 223.—Lines of leveling in Darlington quadrangle.

1. From point 4.8 miles northeast of Scales Mound northeast and east along Illinois Central Railroad to road crossing 4.1 miles east of Apple River, thence south along road 0.5 mile to point 0.3 mile north and 1.5 miles west from Warren (by Henry Bücher in 1908)

[Continued from Elizabeth quadrangle, line 1]

Scales Mound, 5.8 mi. NE. of, 2.5 mi. W. of Apple River, near NE. cor. sec. 22, T. 29 N., R. 3 E., in SW. angle of intersection of N.-S. rd., in field, 14 ft. S. and 6 ft. W. from fence corner; standard iron post with bronze cap stamped "1007"-----	Feet 1,006.484
Apple River, 65 ft. W. of SW. corner of store of Henry Smith, 42 ft. S. of SW. corner of residence of Henry Smith, in SW. corner of yard of W. H. Smith; standard iron post with bronze cap stamped "Prim Trav Sta No 16 1906 994"-----	993.674
Apple River, in NE. corner of intersection of Railroad and Main Streets, in front of Anschutz Bros. General Store, in face of concrete walk, 2.4 ft. E. of N.-S. walk, 0.9 ft. below pavement level; aluminum tablet stamped "996"-----	995.167
Apple River, 4.1 mi. E. of, 0.8 mi. N. and 1.5 mi. W. from Warren, near N¼ cor. fractional sec. 14, T. 29 N., R. 4 E., in SW. angle of rd. crossing; standard iron post with bronze cap stamped "994" (recovered in 1919) <sup>30</sup> -----	992.266

[Continued in Elizabeth quadrangle, line 2]

<sup>29</sup> The Illinois portion of Darlington quadrangle is shown on the Elizabeth quadrangle map.

<sup>30</sup> When this bench mark was recovered in 1919 it was 3 in. underground, along slope of graded road, and apparently had been lowered 0.658 ft. in grading. The figures given represent the new elevation.

# DAVENPORT QUADRANGLE <sup>30a</sup>

[Latitude 41°30'–41°45'; longitude 90°30'–90°45']

## ROCK ISLAND COUNTY

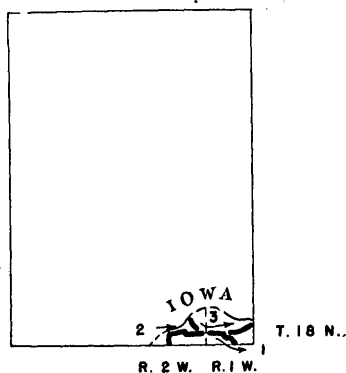


FIGURE 224.—Lines of leveling in Davenport quadrangle.

1. From Rock Island east and southeast along streets to Moline  
(by G. E. Heebink in 1909)

Rock Island, near Chicago, Rock Island & Pacific Ry. sta., at NE. corner of old Atlantic Brewery, owned by Rock Island Brewing Co., on N. side, in upper foundation stone; center of hole in copper bolt (U. S. C. E. B. M. 41; recovered in 1921) -----

*Feet*  
581.029

[Continued in Milan quadrangle, line 1]

2. North and east along streets in Rock Island (by G. E. Heebink in 1909)

[Continued from Milan quadrangle, line 3]

Rock Island, at corner of intersection of Third Avenue and Fifteenth Street, at E. entrance to First Baptist Church, in stone step; aluminum tablet stamped "566" (recovered in 1921) -----

565.907

Rock Island, at Augustana College, near W. entrance of main building; standard iron post with bronze cap stamped "1909 635" (recovered in 1921) -----

634.506

Rock Island, at Augustana College, in front of dormitory, on W. side, at top of stone steps, in circular stone cap; aluminum tablet stamped "1909 623" (recovered in 1921 and reported to have settled) -----

622.278

3. At Rock Island and Moline (by S. R. Archer in 1921)

Arsenal Island, at lower end of, in base of stone tower of arsenal building A 1865, at NE. corner, in E. side, 4 ft. above ground; center of hole in copper bolt (U. S. C. E. B. M. 40) -----

577.122

<sup>30a</sup> The Illinois portion of Davenport quadrangle is shown on the Milan quadrangle map.

# 1346 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Rock Island, at junction of Fifth and Railroad Avenues, at Fifth Avenue undergrade crossing of Chicago, Rock Island & Pacific Ry. bridge 1806, at E. abutment, on top of S. end of parapet; chiseled square -----	<i>Feet</i> 576.91
Moline, at SW. corner of intersection of Second Street and Third Avenue, at NE. corner of brick store at 228 Third Avenue, on N. side, 5 ft. above sidewalk; center of hole in copper bolt (probably U. S. C. E. B. M.)-----	578.795

# DE KALB QUADRANGLE

[Latitude 41°45'–42°00'; longitude 88°45'–89°00']

## DE KALB, LEE, AND OGLE COUNTIES

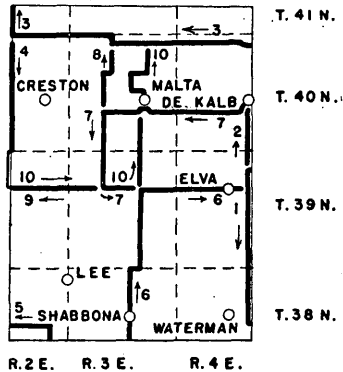


FIGURE 225.—Lines of leveling in De Kalb quadrangle.

1. From point 3.5 miles south of De Kalb west 0.2 mile to crossroads, thence south to point 0.5 mile south and 1.2 miles east from Waterman (by G. F. Williams in 1923)

[Continued from Sycamore quadrangle, line 3]

De Kalb, 3.5 mi. S. of, 1.0 mi. N. and 1.1 mi. E. from Elva, near SW. cor. sec. 2, T. 39 N., R. 4 E., 30 ft. N. and 35 ft. E. from crossroads, in SW. corner of schoolyard, in root on S. side of 18-in. maple tree; copper nail and washer-----	Feet 884.45
Elva, 1.1 mi. E. of, near W. cor. secs. 11 and 14, T. 39 N., R. 4 E., 25 ft. E. of N.-S. rd., at junction of T-rd. W.; standard iron post with bronze cap stamped "Prim Trav Sta No 28 1914 W 19" <sup>31</sup> -----	877.217
Reference mark, 240 ft. S. of rd. junction, on E. head wall of concrete culvert; chiseled square (recovered in 1924)-----	879.10
Elva, 2.0 mi. S. and 1.1 mi. E. from, near NW. cor. sec. 26, T. 39 N., R. 4 E., on E. side of rd., 30 ft. S. and 45 ft. E. from driveway to farmhouse, 30 ft. E. of fence corner, in NW. corner of yard, in root on SW. side of 18-in maple tree; copper nail and washer----	886.51
Elva, 3.0 mi. S. and 1.1 mi. E. from, 3.5 mi. N. and 1.0 mi. E. from Waterman, near SW. cor. sec. 26, T. 39 N., R. 4 E., in NE. angle of crossroads, 20 ft. N. of fence corner, in concrete post; standard tablet stamped "20 W 1923"-----	854.081
Reference mark, 600 ft. S. of crossroads, on W. head wall of concrete culvert; chiseled square-----	849.02
Waterman, 2.5 mi. N. and 1.0 mi. E. from, near NW. cor. sec. 2, T. 38 N., R. 4 E., in SE. angle of crossroads, in field, 15 ft. E. of fence corner, 1 ft. S. of fence, in root on W. side of 36-in. willow tree; copper nail and washer-----	830.54

<sup>31</sup> In 1924 this bench mark was reset. The figures given represent the new elevation.

# 1348 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Waterman, 1.3 mi. N. and 1.0 mi. E. from, 0.15 mi. S. of NE. cor. sec. 10, T. 38 N., R. 4 E., at Fuller Bridge over Somonauk Creek, on SW. wing wall of S. abutment; chiseled square-----	<i>Feet</i> 787.56
Waterman, 0.5 mi. N. and 1.0 mi. E. from, near NE. cor. sec. 15, T. 38 N., R. 4 E., in SW. angle of crossroads, 10 ft. S. of fence corner, in concrete post; standard tablet stamped "21 W 1923"-----	800.101
Reference mark, in NW. angle of crossroads, at SE. corner of yard of dwelling, near shrubbery between two telephone poles, on granite boulder; chiseled square-----	801.02

[Continued in Sycamore quadrangle, line 4]

## 2. From crossroads 1 mile north and 1.1 miles east from Elva north along road to De Kalb (by G. F. Williams in 1923)

Elva, 2.0 mi. N. and 1.1 mi. E. from, near NE. cor. sec. 3, T. 39 N., R. 4 E., 80 ft. S. of crossroads, on W. head wall of concrete culvert; chiseled square-----	878.07
Elva, 3.0 mi. N. and 1.1 mi. E. from, 1.5 mi. S. of De Kalb, near NE. cor. sec. 34, T. 40 N., R. 4 E., in SW. angle of crossroads, on W. side of N.-S. rd., 15 ft. S. of corner maple tree, in concrete post; standard tablet stamped "27 W 1923"-----	890.009
Reference mark, in SW. angle of crossroads, 2 ft. N. and 25 ft. W. from corner maple tree, in root on N. side of 18-in. maple tree; copper nail and washer-----	890.71
De Kalb, at S. limits of, in NW. corner of intersection of South Fourth and East Taylor Streets, 15 ft. N. and 5 ft. W. from end of concrete and beginning of brick pavements, 15 ft. E. of center of sidewalk, on W. side of South Fourth Street, on circular curb, 2 ft. E. of W. end; chiseled square-----	881.29

[Continued in Sycamore quadrangle, line 8]

## 3. From point 2.8 miles north of De Kalb along roads west to point near northwest corner sec. 3, T. 40 N., R. 2 E., thence north to point 3.5 miles south and 1.5 miles east from Lindenwood (by G. F. Williams in 1923)<sup>22</sup>

[Connects with line 8 in Sycamore quadrangle]

De Kalb, 2.8 mi. N. of, near W¼ cor. sec. 2, T. 40 N., R. 4 E., on N. side of rd., 10 ft. E. of E. gatepost of driveway to dwelling, in root on S. side of 24-in. maple tree; copper nail and washer-----	864.74
De Kalb, 2.8 mi. N. and 1.4 mi. W. from, 0.25 mi. W. of E¼ cor. sec. 4, T. 40 N., R. 4 E., 25 ft. S. and 90 ft. E. from junction of T-rd. N., at fifth tree E. of N.-S. rd., in root on W. side of 18-in. willow tree; copper nail and washer-----	872.42
T. 40 N., R. 4 E., 150 ft. W. of E¼ cor. sec. 5, on N. side of rd., 3 ft. W. of SE. corner of yard fence of dwelling, in concrete post; standard tablet stamped "31 W 1923"-----	908.558
Reference mark, on S. side of rd., 30 ft. S. and 70 ft. E. from fence corner, in root on NW. side of 15-in. maple tree; copper nail and washer-----	908.01
T. 40 N., R. 4 E., near W¼ cor. sec. 5, 25 ft. N. and 35 ft. E. from crossroads, 10 ft. E. of fence corner, inside fence, in root on SW. side of 30-in. maple tree; copper nail and washer-----	887.93
T. 40 N., R. 3 E., near E¼ cor. sec. 1, at concrete culvert under range-line rd. S., on N. end of W. head wall; chiseled square-----	870.60

<sup>22</sup> Last 1.5 miles of this line described also in Rochelle quadrangle, line 2.

T. 40 N., R. 3 E., near E $\frac{1}{4}$ cor. sec. 2, on N. side of rd., 4 ft. N. of fence, in root on E. side of 24-in. maple tree; copper nail and washer-----	Feet 881.94
T. 40 N., R. 3 E., near center of sec. 2, about 3 miles N. of Malta, in SE. angle of crossroads, 2 ft. S. of NW. corner of fence of yard of dwelling on E. side of N.-S. rd., in concrete post; standard tablet stamped "32 W 1923" (recovered in 1934)-----	879.543
Reference mark, in NW. angle of crossroads, in yard of dwelling of E. Traubman, in root on S. side of 24-in. maple tree; copper nail and washer (recovered in 1934)-----	880.48
T. 40 N., R. 3 E., near center of sec. 3, at Hueber School, in NW. angle of offset crossroads, 70 ft. W. of rd. N., 30 ft. E. of E.-W. rd., in SW. corner of schoolyard, 35 ft. W. of fence line N., in root on S. side of 24-in. tree, easternmost of four maple trees; copper nail and washer-----	904.61
T. 40 N., R. 3 E., near center of sec. 4, on W. side of N.-S. rd., in line with T-rd. E., 2 ft. W. of corner of orchard fence, in SE. corner of churchyard, in concrete post; standard tablet stamped "33 W 1923"-----	932.637
Reference mark, on NE. corner at N. end of first step of entrance to church; chiseled square-----	933.51
T. 41 N., R. 3 E., near S $\frac{1}{4}$ cor. sec. 33, in NE. angle of offset crossroads, 25 ft. N. and 25 ft. E. from junction of T-rd. N., in root on W. side of 6-in. maple tree; copper nail and washer-----	935.34
T. 41 N., R. 3 E., near S $\frac{1}{4}$ cor. sec. 32, in NW. angle of offset crossroads, on N. side of rd., 350 ft. W. of junction of T-rd. N., 35 ft. N. and 2 ft. E. from junction of driveway to dwelling, in root on SE. side of 36-in. maple tree; copper nail and washer-----	921.03
T. 41 N., R. 3 E., 0.25 mi. E. of SW. cor. sec. 31, on N. side of rd., 40 ft. W. of junction of T-rd. N., 15 ft. W. of corner of farmyard fence, in root on SW. side of 12-in. maple tree; copper nail and washer---	896.35
T. 41 N., R. 2 E., near SE. cor. sec. 36, at De Kalb-Ogle county line, on N. side of E.-W. rd., 25 ft. W. of fence corner, 6 ft. E. of E. end of gate to field, in concrete post; standard tablet stamped "34 W 1923"-----	873.888
Reference mark, in SW. angle of junction of T-rd. S., on W. head wall of concrete culvert; chiseled square-----	875.62
T. 41 N., R. 2 E., near SE. cor. sec. 35, in NW. angle of offset crossroads, on SW. wing wall of concrete culvert under rd. N.; chiseled square---	841.24
T. 40 N., R. 2 E., near NE. cor. sec. 3, near Countryman School, in SW. angle of offset crossroads, on NW. wing wall of concrete culvert under rd. S.; chiseled square-----	813.32
T. 40 N., R. 2 E., near NW. cor. sec. 3, 5.0 mi. S. and 1.5 mi. E. from Lindenwood, 130 ft. E. of junction of T-rd. S., on S. side of rd., in line with rd. N. between secs. 33 and 34, T. 41 N., R. 2 E., in concrete post; standard tablet stamped "35 W 1923"-----	799.706
Reference mark, in NE. angle of junction of rd. N., in SW. corner of field fence, in root on W. side of 60-in. cottonwood tree; copper nail and washer-----	799.74
Lindenwood, 4.5 mi. S. and 1.5 mi. E. from, near W $\frac{1}{4}$ cor. sec. 34, T. 41 N., R. 2 E., on E. side of rd., opposite junction of T-rd. W., in root on W. side of 36-in. cottonwood tree; copper nail and washer-----	800.86
Lindenwood, 3.7 mi. S. and 1.5 mi. E. from, 0.19 mi. S. of E $\frac{1}{4}$ cor. sec. 28, T. 41 N., R. 2 E., on W. side of rd., in yard of dwelling, 3 ft. W. of SE. fence corner, in root on W. side of forked maple tree; copper nail and washer-----	786.10

[Connects with line 4 in Kings quadrangle]

# 1350 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

4. From point near northwest corner sec. 3, T. 40 N., R. 2 E., south along road to point 1 mile north and 1 mile east from Steward (by G. F. Williams in 1923)<sup>33</sup>

T. 40 N., R. 2 E., near E. cor. secs. 4 and 9, 2.3 mi. N. and 1.7 mi. W. from Creston, on W. side of rd., at fence corner, 2 ft. W. of fence N., in line with fence S., on concrete base of 4-in. iron post; chiseled square-----	Feet 807.91
Creston, 1.3 mi. N. and 1.7 mi. W. from, near NW. cor. sec. 15, T. 40 N., R. 2 E., in SE. angle of crossroads, on S. end of E. concrete head wall of culvert; chiseled square-----	818.79
Creston, 0.3 mi. N. and 1.7 mi. W. from, 0.8 mi. N. thence 3.6 mi. E. from Rochelle, near NW. cor. sec. 22, T. 40 N., R. 2 E., 75 ft. S. and 30 ft. E. from intersection of U. S. Highway 30 and N.-S. rd., 45 ft. S. of fence corner, in concrete post; standard tablet stamped "36 W 1923"-----	861.944
Reference mark, in SW. angle of crossroads, on S. end of W. head wall of concrete culvert; chiseled square-----	862.05
Creston, 0.7 mi. S. and 1.7 mi. W. from, 0.2 mi. S. thence 3.6 mi. E. from Rochelle, near SE. cor. sec. 21, T. 40 N., R. 2 E., in NW. angle of crossroads, on W. head wall of concrete culvert; chiseled square--	832.81
Creston, 1.7 mi. S. and 1.7 mi. W. from, 1.2 mi. S. and 3.6 mi. E. from Rochelle, near SE. cor. sec. 28, T. 40 N., R. 2 E., 180 ft. N. of junction of T-rd. W., on W. side of rd., 25 ft. S. of SE. corner of fence of yard of dwelling, in field, in root on E. side of 30-in. maple tree; copper nail and washer-----	828.17
Creston, 2.2 mi. S. and 1.7 mi. W. from, 1.7 mi. S. and 3.6 mi. E. from Rochelle, near E¼ cor. sec. 33, T. 40 N., R. 2 E., 45 ft. N. and 45 ft. W. from crossroads, in SE. corner of yard of farmhouse, in root on E. side of 12-in. tree, southernmost of two maple trees standing close together; copper nail and washer-----	857.96
Creston, 2.7 mi. S. and 1.7 mi. W. from, 2.2 mi. S. and 3.6 mi. E. from Rochelle, 1.0 mi. E. thence 3.0 mi. N. from Steward, at Lee-Ogle county line, near S. cor. secs. 33 and 34, T. 40 N., R. 2 E., at offset crossroads, on N. side of county-line rd., 25 ft. E. of junction of T-rd. S., 2 ft. S. of fence post with iron-pipe supports, in concrete post; standard tablet stamped "37 W 1923"-----	835.677
Reference mark. on W. head wall of concrete culvert under rd. S.; chiseled square-----	837.42
Steward, 1.0 mi. E. thence 1.7 mi. N. from, 0.2 mi. N. of W¼ cor. sec. 10, T. 39 N., R. 2 E., on E. side of rd., 80 ft. N. and 6 ft. E. from SW. corner of barnyard fence, in root on W. side of 12-in. maple tree; copper nail and washer-----	880.39
Steward, 1.0 mi. E. thence 1.0 mi. N. from, 220 ft. S. and 25 ft. W. from NE. cor. sec. 16, T. 39 N., R. 2 E., in SW. angle of crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 3 1912" (recovered in 1934)-----	895.690
Reference mark, in NE. angle of crossroads, in root on W. side of 18-in. maple tree, corner tree of fence; copper nail and washer (recovered in 1934)-----	891.60

<sup>33</sup> Description of bench marks in this line appear also in Rochelle quadrangle as part of line 3.

[Continued in Rochelle quadrangle, line 3]

5. From point about 4 miles north and 1.2 miles east from Paw Paw along road north 0.7 mile to crossroads, thence west 2 miles to point 1.5 miles south and 1.5 miles east from Scarboro (by G. F. Williams in 1923)

[Continued from Earlville quadrangle, line 1]

Paw Paw, 4.1 mi. N. and 1.2 mi. E. from, 3.0 mi. S. and 1.0 mi. W. from Lee, 0.2 mi. S. of E $\frac{1}{4}$ cor. sec. 23, T. 38 N., R. 2 E., on W. side of rd., in yard of farmhouse, 6 ft. W. of fence, in root on SE. side of 12-in. tree, easternmost in N. row of maple trees; copper nail and washer-----	Feet 924.76
Lee, 2.3 mi. S. and 1.0 mi. W. from, near SW. cor. sec. 13, T. 38 N., R. 2 E., at Hillson School, in NE. angle of crossroads, 3 ft. E. of SW. corner of schoolyard fence, in concrete post; standard tablet stamped "42 W 1923"-----	949.641
Reference mark, in NW. angle of crossroads, 15 ft. W. of fence corner, 1 ft. inside fence, in root on SW. side of 30-in. willow tree; copper nail and washer-----	947.65
Lee, 2.3 mi. S. and 1.8 mi. W. from, 0.2 mi. E. of SW. cor. sec. 14, T. 38 N., R. 2 E., on N. side of rd., 210 ft. W. of junction of T-rd. S., on E. end of NE. wing wall of concrete culvert; chiseled square--	872.78
Lee, 2.3 mi. S. and 3.0 mi. W. from, 1.5 mi. S. and 1.5 mi. E. from Scarboro, near NW. cor. sec. 22, T. 38 N., R. 2 E., 120 ft. S. and 15 ft. E. from crossroads, on E. head wall of concrete culvert; chiseled square-----	892.37

[Continued in Rochelle quadrangle, line 4]

6. From point 1.2 miles south of Shabbona generally north along roads to crossroads 4.5 miles south of Malta, thence east to road junction 1.1 miles east of Elva (by G. F. Williams in 1924)

[Connects with line 1 in Earlville quadrangle]

Shabbona, 0.5 mi. S. of, near S $\frac{1}{4}$ cor. sec. 15, T. 38 N., R. 3 E., in NW. angle of crossroads, in field, in root on NE. side of lone maple tree; copper nail and washer-----	892.79
Shabbona, 25 ft. SW. of entrance to post office, on N. side of street, in front of hardware store of W. W. Grant, on SE. corner of concrete base of service sta.; chiseled square-----	902.24
Shabbona, 0.5 mi. N. of, near N $\frac{1}{4}$ cor. sec. 15, T. 38 N., R. 3 E., on E. side of rd., at junction of T-rd. W., 6 ft. S. of fence corner, in concrete post; standard tablet stamped "1 W 1924"-----	903.658
Reference mark, 425 ft. N. of rd. junction, on E. side of rd., in yard of dwelling of Warren J. Gresh, 15 ft. N. of SW. corner of fence, in root on W. side of 18-in. maple tree; copper nail and washer-----	905.95
Shabbona, 1.5 mi. N. of, near S $\frac{1}{4}$ cor. sec. 3, T. 38 N., R. 3 E., 30 ft. N. and 75 ft. E. from crossroads, 50 ft. E. of fence corner, inside fence, in root on N. side of 10-in. maple tree; copper nail and washer-----	899.55
Shabbona, 2.5 mi. N. of, near N $\frac{1}{4}$ cor. sec. 3, T. 38 N., R. 3 E., on SE. side of right-angle turn in rd., in root on N. side of cedar tree standing at corner; copper nail and washer-----	890.54
Shabbona, 2.5 mi. N. and 0.5 mi. E. from, near NW. cor. sec. 2, T. 38 N., R. 3 E., on S. side of right-angle turn in rd., on S. end of NW. wing wall of bridge over creek, at driveway to farm of E. D. Goodlet; chiseled square-----	876.82

# 1352 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Shabbona, 3.5 mi. N. and 0.5 mi. E. from, near SE. cor. sec. 27, T. 39 N., R. 3 E., in NW. angle of crossroads, 15 ft. W. of fence corner, in concrete post; standard tablet stamped "2 W 1924"-----	<i>Feet</i> 881.425
T. 39 N., R. 3 E., near SW. cor. sec. 23, in NE. angle of junction of T-rd. E., 25 ft. NE. of corner of wire fence, in root on S. side of 28-in. maple tree; copper nail and washer-----	885.75
T. 39 N., R. 3 E., near SW. cor. sec. 14, 45 ft. N. and 35 ft. E. from crossroads, in root on W. side of twin maple tree; copper nail and washer-----	882.54
T. 39 N., R. 3 E., near SE. cor. sec. 10, 4.8 mi. W. of Elva, 23 ft. N. and 355 ft. W. from crossroads, opposite dwelling of Thomas Maleg; standard iron post with bronze cap stamped "Prim Trav Sta No 31 1914 W 3" (recovered in 1934)-----	888.907
Elva, 3.8 mi. W. of, near SW. cor. sec. 12, T. 39 N., R. 3 E., 30 ft. N. and 30 ft. E. from crossroads, at fence corner, in root on S. side of 36-in. maple tree; copper nail and washer-----	874.01
Elva, 2.8 mi. W. of, near SE. cor. sec. 12, T. 39 N., R. 3 E., in NW. angle of offset crossroads, 30 ft. N. and 35 ft. W. from junction of T-rd. E., 1 ft. N. and 2 ft. W. from fence corner, in root on S. side of 24-in. maple tree; copper nail and washer-----	871.12
Elva, 1.9 mi. W. of, near S. cor. secs. 7 and 8, T. 39 N., R. 4 E., on N. side of rd., opposite junction of third-class rd. S., 1 ft. S. of yard fence, in concrete post; standard tablet stamped "4 W 1924"-----	863.315
Reference mark, 570 ft. E. of tablet, on NW. wing wall of bridge over South Branch of Kishwaukee River; chiseled square-----	857.39
Elva, 1.0 mi. W. of, near SE. cor. sec. 8, T. 39 N., R. 4 E., 30 ft. N. and 35 ft. W. from crossroads, at fence corner, in root on S. side of 24-in. maple tree; copper nail and washer-----	876.44
Elva, about 500 ft. E. of crossing of Chicago & North Western Ry. and E.-W. rd., near SW. cor. sec. 10, T. 39 N., R. 4 E., 70 ft. N. and 30 ft. E. from crossroads, 8 ft. E. of fence, in root on S. side of 60-in. cottonwood tree; copper nail and washer <sup>34</sup> -----	881.53

7. From De Kalb generally west along roads to crossroads 0.6 mile south and 2.2 miles west from Malta, thence south 4 miles and east 2 miles to crossroads 4.5 miles south of Malta (by J. F. Barksdale in 1923)

[Connects with line 8 in Sycamore quadrangle]

De Kalb, in NW. corner of intersection of Leonard Avenue and Malta rd., 30 ft. N. and 100 ft. W. from intersection, in root on S. side of 30-in. maple tree; copper nail and washer-----	864.91
De Kalb, 0.5 mi. S. and 1.5 mi. W. from, near N¼ cor. sec. 28, T. 40 N., R. 4 E., on S. side of rd., 160 ft. E. of fence corner, 15 ft. S. of fence, in root on S. side of 12-in. pine tree; copper nail and washer-----	860.91
De Kalb, 0.5 mi. S. and 2.4 mi. W. from, 0.6 mi. S. and 2.9 mi. E. from Malta, near N¼ cor. sec. 29, T. 40 N., R. 4 E., on S. side of rd., at driveway to dwelling, on W. head wall of concrete culvert; chiseled square-----	881.78
Malta, 0.6 mi. S. and 2.6 mi. E. from, near NW. cor. sec. 29, T. 40 N., R. 4 E., 30 ft. S. and 370 ft. E. from crossroads, at culvert under driveway to dwelling, on E. head wall; chiseled square-----	887.72

<sup>34</sup> In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "P 50 1934," elevation 886.402 ft.

Malta, 0.6 mi. S. and 1.6 mi. E. from, near NE. cor. sec. 25, T. 40 N., R. 3 E., 50 ft. W. of driveway to farmhouse, on S. head wall of concrete culvert; chiseled square-----	<i>Feet</i> 887.72
Malta, 0.6 mi. S. and 0.6 mi. E. from, near SE. cor. sec. 23, T. 40 N., R. 3 E., on N. side of rd., 30 ft. W. of fence corner, opposite junction of T-rd. S., in root on S. side of 24-in. cottonwood tree; copper nail and washer-----	906.75
Malta, near S. limits of, 30 ft. N. and 480 ft. W. from intersection of Main Street and E.-W. rd., in root on S. side of 36-in. maple tree; copper nail and washer-----	913.24
Malta, 0.6 mi. S. and 0.3 mi. W. from crossing of Main Street and Chicago & North Western Ry., near SE. cor. sec. 22, T. 40 N., R. 3 E., 30 ft. N. and 50 ft. W. from junction of T-rd. W., 20 ft. W. of fence corner, in root on S. side of 24-in. maple tree; copper nail and washer (recovered in 1934)-----	904.83
Malta, 0.6 mi. S. and 2.2 mi. W. from, near NW. cor. sec. 28, T. 40 N., R. 3 E., 45 ft. S. and 560 ft. E. from crossroads, 20 ft. S. of fence, in root on W. side of 24-in. maple tree; copper nail and washer-----	899.06
T. 40 N., R. 3 E., near NW. cor. sec. 33, 55 ft. S. and 35 ft. E. from crossroads, 30 ft. S. of fence corner, 1 ft. inside fence, in root on W. side of 24-in. maple tree; copper nail and washer-----	898.91
T. 39 N., R. 3 E., near NE. cor. sec. 5, in SW. angle of offset crossroads, 300 ft. S. and 30 ft. W. from junction of T-rd. S., 4 ft. W. of fence, in root on E. side of 18-in. maple tree; copper nail and washer-----	919.95
T. 39 N., R. 3 E., near NE. cor. sec. 8, 250 ft. S. and 30 ft. W. from crossroads, 2 ft. W. of fence, in root on W. side of 10-in. catalpa tree; copper nail and washer-----	929.50
T. 39 N., R. 3 E., near NW. cor. sec. 16, 30 ft. S. and 170 ft. E. from crossroads, 10 ft. S. of fence, in root on N. side of 36-in. willow tree; copper nail and washer-----	923.70
T. 39 N., R. 3 E., 0.25 mi. E. of NW. cor. sec. 15, on S. side of rd., 12 ft. S. of fence, in root on N. side of 18-in. willow tree; copper nail and washer-----	895.92
8. From crossroads 0.6 mile south and 2.2 miles west from Malta along roads alternately north and east to crossroads 2.3 miles north and 1.7 miles west from Malta (by J. F. Barksdale in 1923)	
Malta, 0.3 mi. N. and 2.2 mi. W. from, near NE. cor. sec. 20, T. 40 N., R. 3 E., 20 ft. S. and 18 ft. W. from crossroads, on W. head wall of concrete culvert under Lincoln Highway; chiseled square-----	883.11
T. 40 N., R. 3 E., 0.17 mi. E. of SW. cor. sec. 9, 890 ft. E. of junction of T-rd. S., on N. head wall of concrete culvert; chiseled square--	885.15
T. 40 N., R. 3 E., 0.25 mi. N. of center of sec. 9, on E. side of rd., 18 ft. N. of driveway to farmhouse, in root on W. side of 24-in. forked maple tree; copper nail and washer-----	910.78

# 1354 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

9. From northwest corner sec. 16, T. 39 N., R. 3 E., west along road to crossroads 1 mile north and 1 mile east from Steward (by J. F. Barksdale in 1923)

Steward, 1.0 mi. N. and 2.0 mi. E. from, near SW. cor. sec. 11, T. 39 N., R. 2 E., 35 ft. N. and 10 ft. E. from crossroads, on E. head wall of concrete culvert; chiseled square (recovered in 1934) <sup>35</sup>----- Feet  
899.20

10. From point 1 mile north and 1 mile east from Steward east along road to crossroads 4.5 miles south of Malta, thence generally north along road to crossroads 3 miles north of Malta (by E. W. Gouchenour in 1934)

[Continued from Rochelle quadrangle, line 6]

Steward, 1.0 mi. N. and 2.0 mi. E. from, near NE. cor. sec. 15, T. 39 N., R. 2 E., 25 ft. S. and 265 ft. W. from crossroads, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "3 6 1934" <sup>36</sup>----- 906.204

T. 39 N., R. 2 E., near NE. cor. sec. 14, 55 ft. S. and 25 ft. W. from crossroads, in root on N. side of lone willow tree; copper nail and washer----- 894.72

T. 39 N., R. 2 E., near SE. cor. sec. 12, in NW. angle of offset crossroads, at De Kalb-Lee county line, 24 ft. N. and 27 ft. W. from junction of rd. E., in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "3 7 1934"----- 949.987

T. 39 N., R. 3 E., near NE. cor. sec. 17, 58 ft. S. and 24 ft. W. from crossroads, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "3 8 1934"----- 926.153

Reference mark, 30 ft. S. and 125 ft. E. from crossroads, at second tree in row E. of crossroads, in root on NW. side of willow tree; copper nail and washer----- 923.75

T. 39 N., R. 3 E., near NW. cor. sec. 15, 20 ft. S. and 20 ft. E. from crossroads, on S. end of concrete-tile culvert; chiseled square----- 902.68

T. 39 N., R. 3 E., near E. cor. secs. 10 and 15, 4.8 mi. W. of Elva, 54 ft. S. and 75 ft. W. from standard iron post, in barn lot of Maleg farm, in root on E. side of twin willow tree; copper nail and washer <sup>37</sup>----- 887.11

T. 39 N., R. 3 E., near NE. cor. sec. 10, 3.6 mi. S. and 0.3 mi. W. from Malta, 25 ft. S. and 24 ft. W. from crossroads, on concrete base of corner fence post; chiseled square----- 888.43

Malta, 2.6 mi. S. and 0.3 mi. W. from, near SE. cor. sec. 34, T. 40 N., R. 3 E., 60 ft. N. and 25 ft. W. from crossroads, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "3 9 1934"----- 899.220

Reference mark, 27 ft. N. and 33 ft. E. from crossroads, in root on S. side of willow tree; copper nail and washer----- 900.63

Malta, 240 ft. S. and 27 ft. W. from SW. corner of corporate limits of, 0.25 mi. N. of SE. cor. sec. 22, T. 40 N., R. 3 E., on W. side of rd., 27 ft. S. of fence corner, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "3 10 1934"----- 906.524

<sup>35</sup> Used as a reference mark for principal bench mark stamped "3 6 1934" set in 1934, described in line 10.

<sup>36</sup> See line 9 for bench mark used as reference mark for this tablet.

<sup>37</sup> Established as a reference mark to principal bench mark stamped "Prim Trav Sta No 31 1914 W 3," described in line 6.

Malta, at N. limits of, 0.2 mi. E. of NW. corner sec. 23, T. 40 N., R. 3 E., 27 ft. S. and 50 ft. W. from junction of Lincoln Highway and west- ernmost N.-S. street, in root on W. side of 30-in. maple tree; copper nail and washer-----	<i>Feet</i> 910.78
Malta, 0.3 mi. N. and 0.8 mi. W. from, near N $\frac{1}{4}$ cor. sec. 22, T. 40 N., R. 3 E., 30 ft. S. and 20 ft. W. from junction of Lincoln Highway and T-rd. N., in root on E. side of 24-in. maple tree; copper nail and washer-----	923.47
Malta, 1.3 mi. N. and 0.8 mi. W. from, near N $\frac{1}{4}$ cor. sec. 15, T. 40 N., R. 3 E., 25 ft. S. and 105 ft. E. from crossroads, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "3 11 1934"-----	898.503
Reference mark, 57 ft. W. of tablet, 21 ft. S. and 15 ft. E. from cross- roads, on S. end of concrete tile culvert; chiseled square-----	895.94
Malta, 1.3 mi. N. and 0.2 mi. E. from, near S $\frac{1}{4}$ cor. sec. 11, T. 40 N., R. 3 E., 30 ft. N. and 30 ft. W. from crossroads, in root on E. side of 30-in. pine tree; copper nail and washer-----	903.20

# DES PLAINES QUADRANGLE<sup>38</sup>

[Latitude 41°30'–41°45'; longitude 87°45'–88°00']

## COOK, DU PAGE, AND WILL COUNTIES

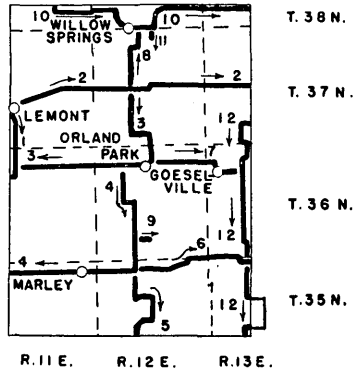


FIGURE 226.—Lines of leveling in Des Plaines quadrangle.

1. From Lemont south along road 3.7 miles, thence west 0.1 mile (by R. G. Clinite in 1920)

[Continued from Joliet quadrangle, line 7]

Lemont, at SE. corner of intersection of Stevens and Talcott Streets, at NW. corner of Dutton's store, on flagstone; chiseled square (Sanitary District B. M. 80) <sup>38a</sup> -----	Feet 603.82
Lemont, 1.3 mi. S. of, near S¼ cor. sec. 29, T. 37 N., R. 11 E., in NW. angle of crossroads, on N. end of angular head wall of culvert; chiseled square-----	748.21
Lemont, 2.1 mi. S. of, 0.2 mi. N. of S¼ cor. sec. 32, T. 37 N., R. 11 E., in SE. angle of intersection of Archer Avenue and N.-S. rd., 18 ft. S. of fence corner; standard iron post with bronze cap stamped "1920 664" (recovered in 1924)-----	663.800
Lemont, 3.2 mi. S. of, at quarter corner between secs. 5 and 8, T. 36 N., R. 11 E., at crossroads, on stone marking quarter corner; highest point (recovered in 1924)-----	765.92

[Continued in Joliet quadrangle, line 8]

2. From Lemont northeast and east by way of Sag Bridge and Worth to point 2 miles south of Oak Lawn (by W. R. Broadus in 1924)

<sup>38</sup> Subdivided into 7½-minute quadrangles Palos Park, Sag Bridge, Mokena, and Tinley Park, which are mapped on a larger scale.

<sup>38a</sup> In 1934 it was reported that this bench mark had been destroyed.

[Connects with line 7 in Joliet quadrangle]

Lemont, at NW. corner of city hall, 70 ft. S. and 220 ft. E. from intersection of Main and Stevens Streets, in stone sidewalk; chiseled square -----	<i>Feet</i> 605.82
Hasting triangulation sta. (Sanitary District of Chicago), 0.8 mi. E. of Lemont, 0.27 mi. S. and 0.23 mi. W. from center of sec. 21, T. 37 N., R. 11 E., 0.2 mi. S. of Chicago & Alton R. R., 0.34 mi. S. of Illinois and Michigan Canal; top of granite post-----	710.766
Lemont, 1.0 mi. NE. of, 475 ft. NE. of center of sec. 21, T. 37 N., R. 11 E., 120 ft. SW. of rd. junction, 20 ft. S. of rd., on top of concrete guard wall of tile; chiseled square-----	609.22
Lemont, 1.5 mi. NE. of, 0.15 mi. N. of E $\frac{1}{4}$ cor. sec. 21, T. 37 N., R. 11 E., 120 ft. SW. of junction of rd. S., on S. head wall of concrete culvert; chiseled square-----	614.76
Bittles triangulation sta. (Sanitary District of Chicago), 2.1 mi. NE. of Lemont, 0.2 mi. S. of N $\frac{1}{4}$ cor. sec. 22, T. 37 N., R. 11 E., 680 ft. measured perpendicularly from C. & A. R. R., on S. side of rd.; top of granite post-----	646.398
Reference mark, 200 ft. W. of N-S. fence, on top of S. head wall of concrete culvert under rd.; chiseled square-----	608.06
Lemont, 2.6 mi. NE. of, 1.1 mi. W. of Sag Bridge, 0.1 mi. W. of E. cor. secs. 15 and 22, T. 37 N., R. 11 E., on W. end of N. head wall of concrete culvert under rd. and trolley tracks; chiseled square---	612.52
Sag Bridge, 34 ft. S. and 28 ft. W. from crossroads, 0.1 mi. N. of S. cor. secs. 13 and 14, T. 37 N., R. 11 E., in concrete post; standard tablet stamped "Prim Trav Sta No 34 Y 1924 B 24" <sup>30</sup> -----	621.523
Reference mark, 60 ft. N. and 270 ft. E. from crossroads, on W. side of entrance to school building, on top of doorstep; chiseled square----	619.80
Sag Bridge, 0.8 mi. E. of, 0.25 mi. W. of NE. cor. sec. 24, T. 37 N., R. 11 E., 30 ft. S. and 38 ft. E. from junction of T-rd. S., in concrete post; standard tablet stamped "Prim Trav Sta No 35 Y 1924 B 25"	622.398
Reference mark, 23 ft. N. and 60 ft. W. from rd. junction, in root on S. side of 24-in. cottonwood tree; copper nail and washer-----	619.19
Sag Bridge, 1.0 mi. E. of, at cor. secs. 13, 18, 19, and 24, T. 38 N., Rs. 11 and 12 E., at Du Page-Cook county line, in center of E-W. rd.; top of steel rail marking section corner-----	613.60
Sag Bridge, 2.0 mi. E. of, near NE. cor. sec. 19, T. 37 N., R. 12 E., 35 ft. S. and 87 ft. E. from crossing of large ditch, in root of 18-in. tree, northeasternmost of three willow trees; rail spike <sup>30a</sup> -----	604.69
Sag Bridge, 3.0 mi. E. of, 4.0 mi. W. of Worth, 630 ft. S. of N. cor. secs. 20 and 21, T. 37 N., R. 12 E., 450 ft. S. of Calumet Sag Channel, 35 ft. S. and 25 ft. E. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 32 Y 1924 B 26"-----	592.952
Reference mark, 375 ft. N. of crossroads, at S. concrete abutment of bridge over Calumet Sag Channel, on top of W. wing wall; chiseled square -----	594.46
Worth, 3.2 mi. W. and 0.3 mi. S. from, in NE $\frac{1}{4}$ sec. 21, T. 37 N., R. 12 E., 840 ft. W. of crossroads, 85 ft. W. of junction of private rd. S., on top of S. head wall of concrete culvert; chiseled square-----	591.31
Calumet Sag Channel, under Kean Avenue bridge; surface of water Oct. 15, 1924-----	574.8

<sup>30</sup> In 1930 this bench mark was moved 16 ft. S. of its original position and reset at same elevation. The description refers to the present location.<sup>30a</sup> Established in 1935 to replace temporary bench mark near this location.

# 1358 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Worth, 2.5 mi. W. of, near S $\frac{1}{4}$ cor. sec. 15, T. 37 N., R. 12 E., 84 ft. N. and 53 ft. W. from intersection of Kean Avenue and 111th Street, in concrete post; standard tablet stamped "Prim Trav Sta No 36 Y 1924 B 27"-----	<i>Feet</i> 594.943
Reference mark, 90 ft. S. and 20 ft. E. from crossroads, on top of S. head wall of concrete culvert; chiseled square-----	593.57
Worth, 1.7 mi. W. of, 0.25 mi. E. of SW. cor. sec. 14, T. 37 N., R. 12 E., 30 ft. N. and 18 ft. W. from intersection of 86th Avenue and 111th Street, on top of N. end of W. head wall of concrete culvert; chiseled square---	591.80
Worth, 1.0 mi. W. of, 30 ft. N. and 10 ft. E. from S. cor. secs. 13 and 14, T. 37 N., R. 12 E., in concrete post; standard tablet stamped "Prim Trav Sta No 37 Y 1924 B 28"-----	599.255
Reference mark, 8 ft. S. and 28 ft. W. from tablet, on top of W. head wall of concrete culvert; chiseled square-----	598.42
Worth, 15 ft. S. and 25 ft. E. from intersection of Harlem Avenue and 111th Street, on S. head wall of concrete culvert; chiseled square----	610.42
Worth, 1.0 mi. E. of, near NW. cor. sec. 20, T. 37 N., R. 13 E., 30 ft. S. and 37 ft. E. from crossroads, at NW. corner of Holy Sepulchre Cemetery, 4 ft. NW. of fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 38 Y 1924 B 29"-----	616.766
Reference mark, 85 ft. SW. of tablet, 85 ft. S. and 30 ft. W. from crossroads, in root on E. side of 16-in. maple tree; copper nail and washer--	615.31
Worth, 2.0 mi. E. of, 0.5 mi. W. thence 2.0 mi. S. from Oak Lawn, near NE. cor. sec. 20, T. 37 N., R. 13 E., in SW. angle of intersection of Central Avenue and 111th Street, on top of W. end of S. head wall of concrete culvert; chiseled square-----	620.49
Indiana Harbor Belt R. R. crossing; top of rail-----	605.3

[Continued in Calumet quadrangle, line 1]

## 3. From crossroads 3 miles east of Sag Bridge along roads generally south to Orland Park, thence west to crossroads 3.2 miles south of Lemont (by W. R. Broadus in 1924)

Sag Bridge, 3.0 mi. E. thence 1.6 mi. S. from, 2.3 mi. N. and 0.6 mi. W. from Orland Park, 0.2 mi. S. of E $\frac{1}{4}$ cor. sec. 29, T. 37 N., R. 12 E., 30 ft. S. and 150 ft. W. from intersection of McCarthy rd. and 104th Avenue, at fence line, in N. side of 14-in. hickory tree; rail spike----	720.94
Orland Park, 1.5 mi. N. and 0.6 mi. W. from, near quarter corner between secs. 32 and 33, T. 37 N., R. 12 E., 31 ft. S. of junction of 131st Street and 104th Avenue, in field, in concrete post; standard tablet stamped "Prim Trav Sta No 31 Y 1924 B 32"-----	697.267
Reference mark, 930 ft. E. of tablet, 50 ft. S. of rd., in root on E. side of cottonwood tree-----	691.06
Orland Park, 1.5 mi. N. and 0.4 mi. E. from, near E $\frac{1}{4}$ cor. sec. 33, T. 37 N., R. 12 E., in SW. angle of crossroads, on top of S. head wall of concrete culvert; chiseled square-----	711.21
Orland Park, 1.0 mi. N. and 0.4 mi. E. from, near SW. cor. sec. 34, T. 37 N., R. 12 E., 120 ft. N. and 30 ft. E. from junction of T-rd E., in root on W. side of twin burr-oak trees; copper nail and washer----	702.45
Orland Park, 0.4 mi. E. of, 32 ft. S. and 17 ft. W. from intersection of 96th Avenue and 143rd Street, in concrete post; standard tablet stamped "Prim Trav Sta No 30 Y 1924 B 33" <sup>40</sup> -----	704.187

<sup>40</sup> In 1927 this bench mark was moved 90 ft. S. and 4 ft. W. from this position, and reset at an elevation 1,260 ft. higher than that originally determined. The figures given represent the new elevation.

Reference mark, 55 ft. N. and 40 ft. E. from crossroads, in root on W. side of 24-in. maple tree; copper nail and washer-----	<i>Feet</i> 703.15
Orland Park, at crossing of Wabash Ry., top of rail-----	700.4
Orland Park, 0.2 mi. W. of R. R. crossing, near S $\frac{1}{4}$ cor. sec. 4, T. 36 N., R. 12 E., 150 ft. W. of junction of T-rd. S., on top of N. head wall of concrete culvert; chiseled square-----	681.40
Orland Park, 1.2 mi. W. of, near N $\frac{1}{4}$ cor. sec. 8, T. 36 N., R. 12 E., 26 ft. S. and 25 ft. W. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No. 29 Y 1924 B 34"-----	717.546
Reference mark, 550 ft. S. of crossroads, on top of W. head wall of concrete culvert; chiseled square-----	703.18
Orland Park, 1.7 mi. W. of, near SW. cor. sec. 5, T. 36 N., R. 12 E., 45 ft. N. and 70 ft. E. from crossroads, on top of W. end of concrete step in front of schoolhouse; chiseled square-----	708.19
Orland Park, 2.7 mi. W. of, near NW. cor. sec. 7, T. 36 N., R. 12 E., at Cook-Will county line, 30 ft. S. and 42 ft. E. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No. 46 Y 1924 B 35"-----	712.745
Reference mark, 13 ft. NW. of tablet, in root on N. side of 24-in. cottonwood tree; copper nail and washer-----	711.28
Orland Park, 3.7 mi. W. of, at Goodings Grove, near NE. cor. sec. 11, T. 36 N., R. 11 E., 25 ft. S. and 60 ft. W. from crossroads, in root on NW. side of 36-in. maple tree; copper nail and washer-----	756.00
Orland Park, 4.7 mi. W. of, near NE. cor. sec. 10, T. 36 N., R. 11 E., 25 ft. S. and 25 ft. W. from crossroads, in fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 45 Y 1924 B 36" <sup>41</sup> -----	737.281
Reference mark, 28 ft. N. and 43 ft. E. from crossroads, 15 ft. E. of fence corner, in root on E. side of small burr-oak tree; copper nail and washer-----	735.83
Orland Park, 5.5 mi. W. of, 0.23 mi. E. of NW. cor. sec. 10, T. 36 N., R. 11 E., on top of S. head wall of concrete culvert; chiseled square--	725.94
Orland Park, 6.2 mi. W. of, near S $\frac{1}{4}$ cor. sec. 4, T. 36 N., R. 11 E., 25 ft. N. and 23 ft. E. from junction of T-rd. N., in concrete post; standard tablet stamped "Prim Trav Sta No 44 Y 1924 B 37" <sup>42</sup> -----	722.008
Reference mark, 85 ft. E. of rd. junction, on top of E. end of N. head wall of concrete culvert; chiseled square-----	724.46
4. From crossroads 1.2 miles west of Orland Park along roads alternately south and east to crossroads 1.3 miles north and 1 mile east from Mokena, thence west to point 3.7 miles west of Marley (by W. R. Broadus in 1924)	
Orland Park, 1.2 mi. W. and 1.2 mi. S. from, 0.25 mi. S. of N $\frac{1}{4}$ cor. sec. 17, T. 36 N., R. 12 E., 35 ft. N. and 25 ft. E. from intersection of 153rd Street and 108th Avenue, in concrete post; standard tablet stamped "Prim Trav Sta No. 28 Y 1924 B 38"-----	710.451
Orland Park, 1.2 mi. W. and 2.0 mi. S. from, 0.9 mi. N. and 0.1 mi. E. from Alpine, near S $\frac{1}{4}$ cor. sec. 17, T. 36 N., R. 12 E., 25 ft. N. and 60 ft. E. from crossroads, 32 ft. E. of fence corner; in root on SW. side of 14-in. hedge tree; copper nail and washer-----	701.37

<sup>41</sup> In 1930 this bench mark was moved 32 ft. south of this position and reset at an elevation 0.940 ft. higher than that originally determined. The figures given represent the new elevation.

<sup>42</sup> In 1930 this bench mark was reported destroyed.

# 1360 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Alpine, 0.9 mi. N. and 0.6 mi. E. from, near SE. cor. sec. 17, T. 36 N., R. 12 E., 10 ft. N. and 15 ft. W. from junction of T-rd. S., on top of NE. stone wing wall of small bridge; chiseled square-----	Feet 687.92
Alpine, 0.6 mi. E. of, near NE. cor. sec. 29, T. 36 N., R. 12 E., 25 ft. S. and 39 ft. W. from intersection of 104th Avenue and 167th Street, in field, in concrete post; standard tablet stamped "Prim Trav Sta No 27 Y 1924 B 39"-----	742.238
Reference mark, 30 ft. N. and 40 ft. E. from crossroads, 18 ft. E. of fence corner, in root on NW. side of 6-in. ash tree; copper nail and washer-----	742.95
Alpine, 1.0 mi. S. and 0.6 mi. E. from, near NW. cor. sec. 33, T. 36 N., R. 12 E., 220 ft. E. of junction of T-rd. E., on top of S. head wall of concrete culvert; chiseled square-----	701.22
Alpine, 2.0 mi. S. and 0.6 mi. E. from, 1.8 mi. N. and 1.0 mi. E. from Mokena, near NW. cor. sec. 4, T. 35 N., R. 12 E., near Cook-Will county line, 105 ft. S. and 30 ft. E. from junction of T-rd. W., in root on W. side of 24-in. ash tree; copper nail and washer-----	719.36
Mokena, 1.3 mi. N. and 1.0 mi. E. from, near E¼ cor. sec. 5, T. 35 N. R. 12 E., 30 ft. N. and 40 ft. W. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 26 Y 1924 B 40"-----	692.212
Reference mark, 45 ft. N. and 15 ft. W. from crossroads, on top of W. head wall of concrete culvert; chiseled square-----	692.82
Mokena, 1.3 mi. N. of, at Marti School, near W¼ cor. sec. 5, T. 35 N., R. 12 E., 31 ft. S. and 33 ft. E. from crossroads, in NW. corner of schoolyard, 18 ft. N. of pump, in concrete post; standard tablet stamped "Prim Trav Sta No 41 Y 1924 B 41"-----	713.201
Reference mark, 950 ft. W. of crossroads, on top of S. head wall of concrete culvert; chiseled square-----	702.67
Mokena, 1.3 mi. N. and 0.9 mi. W. from, 1.1 mi. E. of Marley, 750 ft. E. of W¼ cor. sec. 6, T. 35 N., R. 12 E., on top of S. head wall of concrete culvert; chiseled square-----	706.51
Marley, 440 ft. E. of crossing of Wabash Ry., 32 ft. S. and 28 ft. E. from junction of Main and Maple Streets, in concrete post; standard tablet stamped "Prim Trav Sta No 42 Y 1924 B 42"-----	686.235
Reference mark, 63 ft. N. of tablet, in root on SW. side of 24-in. burr-oak tree; copper nail and washer-----	687.42
Marley, in front of Wabash Ry. sta.; top of rail-----	684.5
Marley, 0.8 mi. W. of, 0.25 mi. W. of center of sec. 2., T. 35 N., R. 11 E., 23 ft. S. and 120 ft. W. from crossroads, in root on E. side of 15-in. walnut tree; copper nail and washer-----	729.90
Marley, 1.5 mi. W. of, near center of sec. 3, T. 35 N., R. 11 E., 30 ft. N. and 45 ft. W. from junction of T-rd. N., in root on SW. side of 24-in. cottonwood tree; copper nail and washer-----	716.54
Marley, 2.0 mi. W. of, near W¼ cor. sec. 3, T. 35 N., R. 11 E., 25 ft. S. and 35 ft. E. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 43 Y 1924 B 43" <sup>43</sup> -----	731.880
Reference mark, 30 ft. N. and 45 ft. W. from crossroads, in root on SW. side of 14-in. sugar-maple tree; copper nail and washer-----	730.53

<sup>43</sup> In 1942 it was reported that this bench mark had been removed from its original position and that the concrete post was lying on the ground.

Marley, 3.0 mi. W. of, near Maple Street School, near E $\frac{1}{4}$ cor. sec. 5, T. 35 N., R. 11 E., 25 ft. S. and 85 ft. W. from junction of T-rd. S., in field, in root on N. side of 24-in. sugar-maple tree; copper nail and washer-----	Feet 701.32
--	----------------

[Connects with line 8 in Joliet quadrangle]

5. From crossroads 1.3 miles north and 1 mile east from Mokena generally south along roads to point 1 mile west of Frankfort (by W. R. Broadus in 1924)

Mokena, 0.8 mi. N. and 1.0 mi. E. from, near NW. cor. sec. 9, T. 35 N., R. 12 E., 20 ft. SE. of crossroads, on top of S. head wall of concrete culvert; chiseled square-----	691.95
Mokena, 0.3 mi. S. and 1.0 mi. E. from, 325 ft. S. of N. cor. secs. 16 and 17, T. 35 N., R. 12 E., 19 ft. S. of junction of second-class rd. N., 4 ft. from gate, in concrete post; standard tablet stamped "Prim Trav Sta No 25 Y 1924 B 44"-----	719.463
Reference mark, 60 ft. NE. of tablet, 30 ft. N. and 30 ft. E. from rd. junction, in root on SW. side of 24-in. elm tree; copper nail and washer-----	723.86
Mokena, 0.2 mi. S. and 2.0 mi. E. from, about 2 mi. N. of Frankfort, near SW. cor. sec. 10, T. 35 N., R. 12 E., 135 ft. N. and 90 ft. E. from junction of T-rd. W., in root on W. side of 36-in. cottonwood tree; copper nail and washer-----	711.44
Frankfort, 0.9 mi. N. of, 640 ft. S. of N. cor. secs. 21 and 22, T. 35 N., R. 12 E., 32 ft. N. and 35 ft. W. from junction of T-rd. W., in concrete post; standard tablet stamped "Prim Trav Sta No 24 Y 1924 B 45"-----	711.610
Frankfort, 0.5 mi. N. and 1.0 mi. W. from, near W $\frac{1}{4}$ cor. sec. 21, T. 35 N., R. 12 E., in SE. angle of intersection of Lincoln Highway and N-S. rd., on top of S. head wall of concrete culvert under highway; chiseled square-----	735.31

[Continued in Peotone quadrangle, line 3]

6. From crossroads 1.3 miles north and 1 mile east from Mokena east and northeast along roads and Cook-Will county-line road to crossroads 1.3 miles south and 1.6 miles east from Tinley Park (by W. R. Broadus in 1924)

Mokena, 1.3 mi. N. and 2.0 mi. E. from, 0.5 mi. W. of Summit, near E $\frac{1}{4}$ cor. sec. 4, T. 35 N., R. 12 E., 10 ft. S. and 50 ft. W. from crossroads, on top of S. end of tile under E-W. rd.; chiseled square---	714.18
Summit, at crossing of Chicago, Rock Island & Pacific Ry.; top of N. rail-----	719.8
Summit, 0.5 mi. E. of, near E $\frac{1}{4}$ cor. sec. 3, T. 35 N., R. 12 E., 23 ft. S. and 50 ft. W. from junction of T-rd. S., in concrete post; standard tablet stamped "Prim Trav Sta No 40 Y 1924 B 51"-----	720.547
Summit, 0.2 mi. N. and 1.5 mi. E. from, 0.25 mi. N. of E $\frac{1}{4}$ cor. sec. 2, T. 35 N., R. 12 E., 30 ft. N. and 210 ft. W. from right-angle turn in rd., in root on S. side of 14-in. ash tree; copper nail and washer---	708.96
Summit, 0.5 mi. N. and 2.5 mi. E. from, 1.2 mi. S. and 0.5 mi. W. from Tinley Park, near NW. cor. sec. 6, T. 35 N., R. 13 E., near corner of Cook and Will Counties, 32 ft. S. and 42 ft. E. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 39 Y 1924 B 52"-----	694.281

# 1362 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Reference mark, 20 ft. N. and 30 ft. E. from crossroads, on top of N. end of tile under E.-W. rd.; chiseled square-----	<i>Feet</i> 694.27
Tinley Park, 1.2 mi. S. and 0.5 mi. E. from, near NE cor. sec. 5, T. 35 N., R. 13 E., 45 ft. S. and 5 ft. E. from junction of T-rd. N., in root on NW. side of 20-in. cottonwood tree; copper nail and washer-----	696.84
Tinley Park, 1.3 mi. S. and 1.6 mi. E. from, near S. cor. secs. 32 and 33, T. 36 N., R. 13 E., 37 ft. N. and 33 ft. W. from junction of T-rd. N., 37 ft. N. and 70 ft. W. from junction of T-rd. S., in concrete post; standard tablet stamped "Prim Trav Sta No 12 Y 1924 B 53" (recovered in 1925)-----	696.92±
Reference mark, 80 ft. S. and 20 ft. W. from junction of T-rd. S., in root 6 in. underground on N. side of 7-in. catalpa tree; copper nail and washer (recovered in 1925)-----	697.36
7. From crossroads 0.4 mile east of Orland Park alternately east and south along roads to crossroads 1.5 miles east of Goeselville (by W. R. Broadus in 1924)	
Orland Park, 1.4 mi. E. of, near N. cor. secs. 10 and 11, T. 36 N., R. 12 E., 20 ft. S. of rd., on top of head wall of concrete culvert under driveway; chiseled square-----	698.43
Orland Park, 2.1 mi. E. from, 0.25 mi. E. of quarter corner between secs. 2 and 11, T. 36 N., R. 12 E., 32 ft. S and 52 ft. W. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 47 Y 1924 B 48"-----	674.688
Reference mark, 26 ft. E. of tablet, in SW. angle of crossroads, on top of W. head wall of concrete culvert; chiseled square-----	675.30
Orland Park, 3.1 mi. E. of, 0.21 mi. E. of S¼ cor. sec. 1, T. 36 N., R. 12 E., 23 ft. N. of rd., on top of E. head wall of concrete culvert under driveway to dwelling of John Duehr; chiseled square-----	654.76
Orland Park, 3.9 mi. E. of, 0.5 mi. N. of Goeselville, near S¼ cor. sec. 6, T. 36 N., R. 13 E., 28 ft. N. and 29 ft. E. from junction of 143rd Street and Bachelor Grove Rd., in concrete post; standard tablet stamped "Prim Trav Sta No 48 Y 1924 B 49"-----	644.583
Reference mark, 10 ft. SW. of tablet, on top of E. head wall of concrete culvert; chiseled square-----	645.73
Goeselville, near center of sec. 7, T. 36 N., R. 13 E., 75 ft. N. and 18 ft. W. from rd. junction, on top of S. head wall of concrete culvert under driveway; chiseled square-----	678.75
Goeselville, 0.5 mi. E. of, near W¼ cor. sec. 8, T. 36 N., R. 13 E., 22 ft. S. and 220 ft. E. from junction of Ridgeland Avenue and 147th Street, on top of W. head wall of concrete culvert under driveway; chiseled square-----	667.51
Goeselville, 1.5 mi. E. of, near quarter corner between secs. 8 and 9, T. 36 N., R. 13 E., 20 ft. N. of intersection of Central Avenue and 147th Street, in W. wing wall of concrete culvert; standard tablet stamped "Prim Trav Sta No 10 Y 1924 B 50" (recovered in 1925)-----	659.598
Reference mark, 25 ft. S. and 45 ft. W. from intersection, on top of W. head wall of concrete culvert; chiseled square (recovered in 1925)-----	660.10

8. From crossroads 3 miles east of Sag Bridge along roads alternately north and east to road junction 0.5 mile east of Willow Springs (by W. R. Broadus in 1924)

Sag Bridge, 0.5 mi. N. and 3.0 mi. E. from, near E $\frac{1}{4}$ cor. sec. 17, T. 37 N., R. 12 E., in NW. angle of crossroads, on top of N. head wall of stone culvert; chiseled square-----	<i>Feet</i> 607.97
Sag Bridge, 1.0 mi. N. and 3.0 mi. E. from, 2.0 mi. S. of Willow Springs, 100 ft. S. of E. cor. secs. 8 and 17, T. 37 N., R. 12 E., on top of W. head wall of concrete culvert; chiseled square-----	657.51
Willow Springs, 1.5 mi. S. of, 300 ft. E. of W $\frac{1}{4}$ cor. sec. 9, T. 37 N., R. 12 E., 300 ft. E. of 104th Avenue, 30 ft. S. and 15 ft. W. from rd. corner, in root on SE. side of 24-in. red-oak tree; copper nail and washer-----	716.42
Willow Springs, 1.0 mi. S. of, near NW. cor. sec. 9, T. 37 N., R. 12 E., 450 ft. E. of crossroads, on S. head wall of concrete culvert; chiseled square-----	698.54
Willow Springs, 1.0 mi. S. and 0.5 mi. E. from, near N $\frac{1}{4}$ cor. sec. 9, T. 37 N., R. 12 E., 60 ft. S. and 25 ft. E. from intersection of 95th Street and 100th Avenue, 27 ft. S. of oak tree, in concrete post; standard tablet stamped "Prim Trav Sta No 33 Y 1924 B 31"-----	719.118
Reference mark, in SW. angle of intersection, on top of S. head wall of concrete culvert; chiseled square-----	719.20
Willow Springs, 0.6 mi. E. of, 25 ft. S. and 95 ft. E. from junction of 87th Street and 100th Avenue, in root on E. side of 14-in. red-haw tree; copper nail and washer-----	674.68

9. From road junction 1 mile south and 0.6 mile east from Alpine east 0.8 mile along 175th Street (by W. R. Broadus in 1924; spur line leveled twice)

Orland triangulation sta. (U. S. Lake Survey), 1.0 mi. S. and 1.4 mi. E. from Alpine, 3.7 mi. in air line W. of Tinley Park, 0.18 mi. W. of SE cor. sec. 28, T. 36 N., R. 12 E., 936 ft. W. of crossroads; stone post-----	771.591
Reference mark, 659 ft. S.88°56'W. from sta.; stone post-----	766.653
Reference mark, 659 ft. S.88°15' E. from sta.; stone post-----	764.200
Reference mark, 48 ft. S.2°58'W. from sta.; stone post-----	772.471

10. From point near quarter corner between secs. 26 and 27, T. 38 N., R. 11 E., south 0.4 mile to Seventy-ninth Street, thence east and southeast to Willow Springs, thence alternately east and north to point on Seventy-ninth Street about 2 miles north of Oak Lawn (by S. R. Archer in 1924)

[Continued from Riverside quadrangle, line 1]

T. 38 N., R. 11 E., near SW. cor. sec. 26, 22 ft. N. and 20 ft. E. from junction of T-rd. E., in fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 2 K 1924 A 61"-----	729.871
Reference mark, 240 ft. E. of tablet, on N. side of rd., in field, in root on S. side of 42-in. cottonwood tree; copper nail and washer-----	719.68
T. 38 N., R. 11 E., 0.23 mi. E. of quarter corner between secs. 26 and 35, 35 ft. S. and 35 ft. E. from crossroads, 40 ft. S. of NW. corner of yard of dwelling, S. of gate, in root on NW. side of 15-in. boxelder tree; copper nail and washer-----	713.73
T. 38 N., R. 11 E., near NW. cor. sec. 36, in SE. angle of crossroads, 10 ft. S. of fence corner, in root on S. side of large cottonwood tree; copper nail and washer-----	713.88

## 1364 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

T. 38 N., R. 12 E., near SW. cor. sec. 30, at Cook-Du Page county line, 25 ft. N. and 30 ft. E. from crossroads, in fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 3 K 1924 A 62"—	<i>Feet</i> 709.296
Reference mark, 160 ft. E. of tablet, on N. side of rd., in field, in root on SW. side of 36-in. oak tree; copper nail and washer-----	702.57
T. 38 N., R. 12 E., near NW. cor. sec. 32, 50 ft. S. and 40 ft. E. from intersection of Wolf rd. and 79th Street, in field, 20 ft. S. of fence corner, in root in N. side of 30-in. oak tree; copper nail and washer--	626.06
T. 38 N., R. 12 E., near N¼ cor. sec. 32, 0.7 mi NW. thence 0.5 mi. N. from Willow Springs, 10 ft. S. and 30 ft. E. from junction of T-rd. W., in NW. corner of yard of dwelling, in root on W. side of 24-in. oak tree; copper nail and washer-----	647.25
Keller triangulation sta. (Sanitary District of Chicago), 0.7 mi. NW. thence 0.4 mi. N. from Willow Springs, 340 ft. S. of N¼ cor. sec. 32, T. 38 N., R. 12 E., 25 ft. E. of rd., 35 ft. S. of driveway to barnyard on property of John Keller; granite monument-----	634.245
Willow Springs, 0.7 mi. NW. of, near center of sec. 32, T. 38 N., R. 12 E., 70 ft. S. and 45 ft. W. from crossroads, in field, in root on NE. side of 30-in. oak tree; copper nail and washer-----	603.36
Willow Springs, at Wentworth Avenue crossing of C. & A. R. R.; top of rail-----	597.6
Willow Springs, at N. corner of intersection of Archer and Wentworth Avenues, on SW. side of Henry B. Koller's brick block, in top of NW. end of stone doorstep, 8 ft. SE. of W. corner of building; copper bolt leaded vertically (U. S. C. E. B. M. 121)-----	616.075
Willow Springs, on SE. side of Archer Avenue, 500 ft. NE. of intersection of Wentworth Avenue, on NE. end of SE. head wall of concrete bridge; chiseled square-----	612.72
Willow Springs, 1.5 mi. E. of, near S¼ cor. sec. 34, T. 38 N., R. 12 E., in NE. angle of intersection of Kean Avenue and 87th Street, on top of W. end of N. angular head wall of concrete culvert; chiseled square-----	696.41
Willow Springs, 1.5 mi. E. thence 0.9 mi. N. from, 0.35 mi. N. of center of sec. 34, T. 38 N., R. 12 E., at corporation line between Justice and Spring Forest, in SE. angle of junction of Archer and Kean Avenues, at NW. corner of Village Garden brick block, on top of SW. end of stone doorsill of corner entrance; chiseled square-----	648.11
Justice, near center of, near SE. cor. sec. 27, T. 38 N., R. 12 E., 60 ft. NE. of junction of Archer Avenue and street SE., on top of W. end of S. head wall of concrete culvert under Archer Avenue; chiseled square-----	614.63
Cronin triangulation sta. (Sanitary District of Chicago), 910 ft. N. and 330 ft. W. from SE. cor. sec. 27, T. 38 N., R. 12 E., 320 ft. N. of curve in Archer Avenue, in field; granite post-----	610.885
T. 38 N., R. 12 E., near E. cor. secs. 27 and 34, on W. side of junction of 79th Street and 88th Avenue, in root on NW. side of 24-in. oak tree; copper nail and washer-----	617.16
T. 38 N., R. 12 E., near SW. cor. sec. 25, in NE. angle of intersection of 79th Street and Roberts rd., on top of E. end of N. head wall of concrete culvert; chiseled square-----	620.43
T. 38 N., R. 13 E., near NW. cor. sec. 31, 20 ft. S. and 25 ft. E. from intersection of 79th Street and Harlem Avenue, 19 ft. SE. of iron culvert, in concrete post; standard tablet stamped "Prim Trav Sta No 1 Y 1924 A 63"-----	618.940

Reference mark, 845 ft. E. of tablet, on S. side of rd., in root on SW: side of 10-in. poplar tree; copper nail and washer-----	<i>Feet</i> 617.99
T. 38 N., R. 13 E., near NE. cor. sec. 31, 2.0 mi. N. and 1.5 mi. W. from Oak Lawn, 25 ft. S. and 50 ft. W. from junction of rd. S., in root on N. side of 12-in. maple tree; copper nail and washer-----	615.50
Oak Lawn, 2.0 mi. N. and 0.3 mi. W. from, at Stickney School, 780 ft. E. of NW. cor. sec. 33, T. 38 N., R. 13 E., 35 ft. S. and 95 ft. W. from intersection of 79th Street and State rd., in NE. corner of schoolyard, in concrete post; standard tablet stamped "Prim Trav Sta No 2 Y 1924 A 64"-----	618.372
Reference mark, 215 ft. SW. of tablet, on top of N. end of first stone step below doorsill of main entrance to schoolhouse; chiseled square -----	621.17

[Continued in Calumet quadrangle, line 6]

11. From crossroads 1.3 miles east of Willow Springs south 0.4 mile along U. S. Highway 45 (by S. R. Archer in 1924; spur line leveled twice)

Willow Springs triangulation sta. (U. S. Lake Survey), 580 ft. S. and 100 ft. E. from center of NW $\frac{1}{4}$ sec. 3, T. 37 N., R. 12 E., 580 ft. N. and 100 ft. E. from right-angled corner of woods of Cook County Forest Reservation, 100 ft. E. of N.-S. sixteenth-section line, 15 ft. S. and 25 ft. E. from northernmost of two 30-in. oak trees standing 200 ft. apart; stone post-----	729.593
Reference mark, 200 ft. SW. of sta.; stone post-----	729.299
Reference mark, 5 ft. N. and 100 ft. W. from sta.; stone post-----	728.466

12. From point 2 miles south and 2.4 miles east from Worth west along 127th Street 0.4 mile, thence south along Central Avenue to point 5 miles east of Frankfort (by S. R. Archer in 1925)

[Continued from Calumet quadrangle, line 7]

Worth, 2.0 mi. S. and 2.0 mi. E. from, near NW. cor. sec. 33, T. 37 N., R. 13 E., in SE. angle of junction of Central Avenue and 127th Street, on top of center of E. head wall of concrete culvert; chiseled cross -----	602.02
T. 37 N., R. 13 E., near SE. cor. sec. 32, 29 ft. N. and 24 ft. W. from junction of Central Avenue and 135th Street, 1 ft. E. of granite boulder, in concrete post; standard tablet stamped "Prim Trav Sta No 9 Y 1924"-----	621.564
T. 37 N., R. 13 E., 0.25 mi. E. of SW. cor. sec. 33, 25 ft. N. and 35 ft. W. from junction of 135th Street and rd. S., in yard of dwelling, in root on SW. side of 30-in. maple tree; copper nail and washer-----	621.08
T. 36 N., R. 13 E., near center of SW $\frac{1}{4}$ sec. 4, 130 ft. N. of junction of Midlothian rd. and rd. N., on E. side of rd., in root on SW. side of 24-in. oak tree; copper nail and washer-----	643.14
T. 36 N., R. 13 E., near W $\frac{1}{4}$ cor. sec. 16, in SE. angle of junction of Central Avenue and 155th Street, on SW. side of guide post, on concrete base; chiseled square-----	663.06
T. 36 N., R. 13 E., near SW. cor. sec. 16, 165 ft. E. of intersection of Central Avenue and 159th Street, on N. side of rd., in root on W. side of forked poplar tree; copper nail and washer-----	657.77
T. 36 N., R. 13 E., near W $\frac{1}{4}$ cor. sec. 21, 35 ft. S. and 45 ft. E. from intersection of Central Avenue and 163rd Street, in root on NW. side of 12-in. oak tree; copper nail and washer-----	694.63

# 1366 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Chicago, Rock Island & Pacific Ry. crossing of Central Avenue; top of N. rail-----	<i>Feet</i> 685.7
T. 36 N., R. 13 E., near SW. cor. sec. 21, 1.7 mi. NE. of Tinley Park, 25 ft. N. and 25 ft. E. from intersection of Central Avenue and 167th Street, in concrete post; standard tablet stamped "Prim Trav Sta No 11 Y 1924"-----	701.642
Reference mark, 40 ft. S. and 45 ft. W. from crossroads, in root on SE. side of 12-in. oak tree; copper nail and washer-----	698.23
Tinley Park, 1.5 mi. E. of, near NE. cor. sec. 32, T. 36 N., R. 13 E., in SW. angle of junction of Central Avenue and 175th Street, on S. side of guide post, on concrete base; chiseled square-----	697.24
Tinley Park, 2.2 mi. S. and 1.7 mi. E. from, near SW. cor. sec. 4, T. 35 N., R. 13 E., in NE. angle of intersection of Central Avenue and Flossmoor rd., 10 ft. E. of fence corner, in root on W. side of cottonwood tree; copper nail and washer-----	696.22
T. 35 N., R. 13 E., near SE. cor. sec. 8, 28 ft. N. and 43 ft. W. from junction of Central Avenue and Vollmer rd., 2 ft. S. and 10 ft. W. from fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 13 Y 1924"-----	700.078
Reference mark, 30 ft. S. and 25 ft. W. from rd. junction, in field, in root on E. side of 15-in. walnut tree; copper nail and washer---	702.33
[Line jogs into Calumet quadrangle]	
Frankfort, 0.5 mi. N. and 5.0 mi. E. from, near E $\frac{1}{4}$ cor. sec. 20, T. 35 N., R. 13 E., in SW. angle of junction of Lincoln Highway and Central Avenue, on top of W. head wall of concrete culvert under Central Avenue; chiseled square-----	709.61

[Continued in Peotone quadrangle, line 4]

# DICKEYSVILLE QUADRANGLE

[Latitude 42°30'–42°45' ; longitude 90°30'–90°45']

JO DAVIESS COUNTY

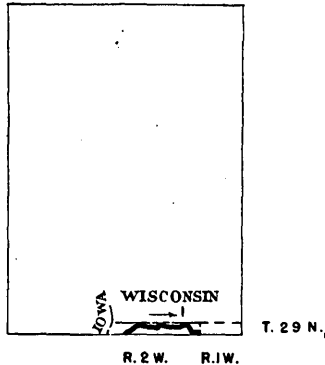


FIGURE 227.—Lines of leveling in Dickeyville quadrangle.

1. From point 1 mile northeast of East Dubuque along roads north-east, east, and southeast to point 1.3 miles northwest of Menominee (by W. J. Drath in 1934)

[A jog from East Dubuque quadrangle, line 1]

East Dubuque, 1.0 mi. NE. of City Hall, near quarter corner between secs. 20 and 21, T. 29 N., R. 2 W., on S. side of State Highway 35, at section-line crossing, on top of W. concrete head wall of culvert under driveway to farm buildings; chiseled square <sup>43</sup> -----	Feet 825.97
East Dubuque, 2.1 mi. NE. of, 0.3 mi. NE. of S¼ cor. fractional sec. 16, T. 29 N., R. 2 W., about 300 ft. S. of Illinois-Wisconsin State line, 175 ft. E. of intersection of tangents of State Highway 35 and rd. E., 80 ft. W. of T-rd. S., on S. side of rd.; standard iron post with bronze cap stamped "866"-----	865.496
Reference mark, 110 ft. E. of iron post, in SE. angle of junction of T-rd. S., at fence corner, in root on SW. side of 30-in maple tree; copper nail and washer-----	861.14
East Dubuque, 2.1 mi. NE. thence 0.5 mi. E. from, 0.25 mi. E. of SW cor. fractional sec. 15, T. 29 N., R. 2 W., about 300 ft. S. of Illinois-Wisconsin State line, 50 ft. E. of private rd. S., on S. side of rd., 6 ft. S. of fence, in root on N. side of 12-in. hickory tree; copper nail and washer-----	821.40
East Dubuque, 2.1 mi. NE. thence 1.4 mi. E. from, near NE. cor. fractional sec. 15, T. 29 N., R. 2 W., about 0.2 mi. E. of bridge over Menominee River, 160 ft. E. of angle in rd., 200 ft. W. of section line, on S. side of rd.; standard iron post with bronze cap stamped "700"-----	700.019
East Dubuque, 2.1 mi. NE. thence 2.3 mi. E. from, 0.25 mi. W. of SE. cor. fractional sec. 14, T. 29 N., R. 2 W., on E. end of N. head wall of concrete culvert; chiseled square-----	886.61

<sup>43</sup> This bench mark appears also in East Dubuque quadrangle.

# 1368 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

East Dubuque, 2.1 mi. NE. thence 2.7 mi. E. from, near N. cor. fractional secs. 13 and 14, T. 29 N., R. 2 W., at Illinois-Wisconsin State line, 120 ft. E. of junction of T-rd. E., on S. side of rd., in small root on N. side of 24-in. cottonwood tree; nail-----	<i>Feet</i> 889.20
East Dubuque, 2.1 mi. NE. thence 3.2 mi. E. from, 2.2 mi. NW. of Menominee, near N¼ cor. fractional sec. 13, T. 29 N., R. 2 W., 75 ft. W. of T-rd. S., on S. side of rd., in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "901"-----	901.233
Menominee, 1.5 mi. NW. of, 0.3 mi. NE. of center of sec. 24 T. 29 N., R. 2 W., 0.25 mi. W. of junction of N-S. rd., 90 ft. W. of junction of private rd. S., on N. side of rd., inside fence, in root on E. side of 12-in. oak tree; copper nail and washer-----	892.81

[Continued in East Dubuque quadrangle, line 1]

# DIXON QUADRANGLE

[Latitude 41°45'–42°00'; longitude 89°15'–89°30']

## LEE AND OGLE COUNTIES

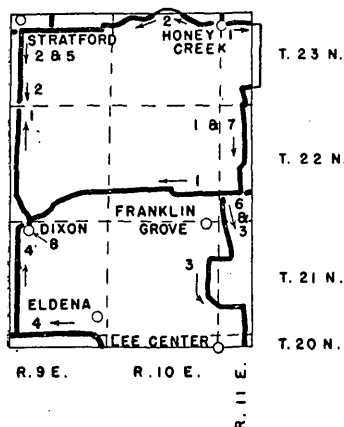


FIGURE 228.—Lines of leveling in Dixon quadrangle.

1. From point 0.6 mile north of Honey Creek station on Chicago, Burlington & Quincy Railroad along roads generally south to point 1.6 miles north and 1.9 miles east from Franklin Grove, thence west to Dixon, thence north along Pennsylvania Avenue 6.2 miles (by H. S. Senseney in 1916)

[Continued from Oregon quadrangle, line 2]

Honey Creek, 0.2 mi. N. of sta., 0.15 mi. S. of W $\frac{1}{4}$ cor. sec. 7, T. 23 N., R. 11 E., 25 ft. S. and 30 ft. E. from junction of rd. E.; standard iron post with bronze cap stamped "690"	Feet 689.539
Reference mark, in SE. angle of rd. junction, on boulder; chiseled square	690.50
Honey Creek, 0.2 mi. N. thence 1.4 mi. E. from, 1.0 mi. N. and 1.7 mi. W. from Chana, 0.25 mi. S. of center of sec. 8, T. 23 N., R. 11 E., 180 ft. E. of junction of rd. N., on S. side of rd., in root of tree; copper nail and washer	747.66

[Line jogs into Rochelle quadrangle, line 1]

Chana, 2.4 mi. S. and 2.0 mi. W. from, 0.25 mi. E. of NW. cor. sec. 32, T. 23 N., R. 11 E., 20 ft. S. and 65 ft. W. from junction of rd. S.; standard iron post with bronze cap stamped "760" (recovered in 1934)	759.505
Reference mark, in SW. angle of rd. junction, in root of tree; copper nail and washer	759.12
Chana, 3.4 mi. S. and 1.9 mi. W. from, 0.2 mi. W. of S $\frac{1}{4}$ cor. sec. 32, T. 23 N., R. 11 E., on E. side of entrance to Washington Grove Cemetery, on base of gatepost; chiseled square	754.92
Chana, 4.4 mi. S. and 1.9 mi. W. from, at Prairie View School, near S $\frac{1}{4}$ cor. sec. 5, T. 22 N., R. 11 E., on SW. corner of lower step; chiseled square	862.55

# 1370 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Chana, 5.4 mi. S. and 1.9 mi. W. from, 2.5 mi. N. and 2.0 mi. W. from Ashton, near N¼ cor. sec. 17, T. 22 N., R. 11 E., 30 ft. S. and 20 ft. E. from junction of T-rd. E.; standard iron post with bronze cap stamped "820" (recovered in 1934)-----	<i>Feet</i> 818.930
Reference mark, in SE. angle of rd. junction, in root of tree; copper nail and washer-----	818.22
Ashton, 1.5 mi. N. and 2.0 mi. W. from, near S¼ cor. sec. 17, T. 22 N., R. 11 E., in NE. angle of junction of E.-W. rd., in fence corner, on boulder; chiseled square-----	840.06
Ashton, 2.2 mi. W. of, 1.6 mi. N. and 1.9 mi. E. from Franklin Grove, 0.25 mi. W. of center of sec. 29, T. 22 N., R. 11 E., 25 ft. N. and 20 ft. W. from junction of E.-W. rd.; standard iron post with bronze cap stamped "832" (recovered in 1934)-----	831.071
Reference mark, 100 ft. W. of rd. junction, on S. side of rd., in root of tree; copper nail and washer-----	830.26
Franklin Grove, 1.6 mi. N. of, near W¼ cor. sec. 25, T. 22 N., R. 10 E., in SE. angle of crossroads, in root of tree; copper nail and washer---	828.66
Franklin Grove, 1.6 mi. N. and 1.3 mi. W. from, near W¼ cor. sec. 26, T. 22 N., R. 10 E., 30 ft. N. and 25 ft. E. from junction of T-rd. N.; standard iron post with bronze cap stamped "822"-----	821.618
Reference mark, in NW. angle of rd. junction, on culvert; chiseled square-----	820.43
Franklin Grove, 1.9 mi. N. and 2.3 mi. W. from, 0.25 mi. S. of N. cor. secs. 27 and 28, T. 22 N., R. 10 E., at junction of rd. N., on S. side of rd., in root of tree; copper nail and washer-----	773.82
Franklin Grove, 1.6 mi. N. and 3.8 mi. W. from, 3.4 mi. NE. thence 3.0 mi. E. from Abraham Lincoln Bridge in Dixon, near center of sec. 29, T. 22 N., R. 10 E., 20 ft. S. and 30 ft. E. from junction of T-rd. S.; standard iron post with bronze cap stamped "Prim Trav Sta No 39 1911 736"-----	735.816
Dixon, 3.4 mi. NE. thence 2.0 mi. E. from, 2.4 mi. N. of Nachusa, near center of sec. 30, T. 22 N., R. 10 E., in SW. angle of crossroads, in root of tree; copper nail and washer-----	726.04
Dixon, 3.4 mi. NE. thence 1.0 mi. E. from, about 2.0 mi. S. of Grand Detour, near center of sec. 25, T. 22 N., R. 9 E., in NE. angle of crossroads, on culvert; chiseled square-----	696.06
Dixon, 3.4 mi. NE. of, near center of sec. 26, T. 22 N., R. 9 E., 30 ft. S. and 25 ft. E. from crossroads; standard iron post with bronze cap stamped "778" (recovered in 1941)-----	777.040
Reference mark, in SW. angle of crossroads, in root of tree; copper nail and washer-----	774.98
Dixon, 1.1 mi. NE. of, about 0.15 mi. SE. of center of sec. 33, T. 22 N., R. 9 E., on river rd., in SE. angle of rd. fork, on culvert; chiseled square-----	659.04
Dixon, NE. of intersection of Galena Avenue and River Street, 25 ft. SE. of S. end of E. handrail of Galena Avenue bridge over Rock River, at N. end of concrete sidewalk, at SE. end of 5-in. concrete step at sidewalk level; standard iron post with bronze cap stamped "660 (as reset in 1922; " recovered by U. S. C. & G. S. in 1934; replaced by standard tablet in 1939—see following description)----	658.762

<sup>44</sup>The former location of this bench mark was 70 ft. N. and 35 ft. E. from intersection of Galena Avenue and River Street. In 1922 it was reset at the same elevation.

Dixon, at NE. corner of intersection of Galena Avenue and River Street, at Abraham Lincoln Bridge over Rock River, in end of SE. wing wall of S. abutment, 2 ft. N. of center of end hub post; standard tablet stamped "660" (as reset in 1939; recovered in 1941)-----	<i>Feet</i> 659.465
Rock River, under bridge; surface of water Aug. 1, 1916-----	637.8
Dixon, 2.2 mi. N. of, near NW. cor. sec. 29, T. 22 N., R. 9 E., 25 ft. S. and 20 ft. E. from crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 38 1911 789" (recovered in 1930)---	788.210
Dixon, 3.2 mi. N. of, at Hazelwood School, near NW. cor. sec. 20, T. 22 N., R. 9 E., 60 ft. S. of junction of T-rd. W., on E. side of rd., in root of tree; copper nail and washer-----	814.60
Dixon, 4.2 mi. N. of, near SE. cor. sec. 7, T. 22 N., R. 9 E., in NW. angle of junction of T-rd. W., on rock; chiseled square-----	668.50
Dixon, 5.2 mi. N. of, near SE. cor. sec. 6, T. 22 N., R. 9 E., in NW. angle of crossroads, on top of concrete fence post; chiseled square-----	764.24
Dixon, 6.2 mi. N. of, 4.6 mi. S. of Stratford, near SE. cor. sec. 31, T. 23 N., R. 9 E., 25 ft. N. and 30 ft. W. from crossroads; standard iron post with bronze cap stamped "790"-----	789.020
Reference mark, in NW. angle of crossroads, in root of tree; copper nail and washer-----	788.56
<p>2. From point 0.2 mile north of Honey Creek station on Chicago, Burlington &amp; Quincy Railroad generally west along railroad and roads to point 0.6 mile south of Stratford, thence south along Pennsylvania Avenue to point 6.2 miles north of Dixon (by H. S. Senseney in 1916)</p>	
Honey Creek, in front of sta.; top of N. rail-----	689.0
[Jogs into Oregon quadrangle, line 3]	
Oregon, 3.5 mi. W. of sta., 0.3 mi. S. and 4.5 mi. E. from Stratford, at Mount Zion Church, about 0.2 mi. S. of center of sec. 12, T. 23 N., R. 9 E., near NW. corner of church; standard iron post with bronze cap stamped "799"-----	798.382
Stratford, 0.6 mi. S. thence 3.5 mi. E. from, near S $\frac{1}{4}$ cor. sec. 11, T. 23 N., R. 9 E., in NW. angle of crossroads, on boulder; chiseled square-----	822.84
Stratford, 0.6 mi. S. thence 2.5 mi. E. from, near Columbian School, near S $\frac{1}{4}$ cor. sec. 10, T. 23 N., R. 9 E., in NE. angle of crossroads, in root of tree; copper nail and washer-----	763.54
Stratford, 0.6 mi. S. thence 1.7 mi. E. from, 0.25 mi. W. of NE. cor. sec. 16, T. 23 N., R. 9 E., 20 ft. S. and 50 ft. W. from junction of T-rd. N.; standard iron post with bronze cap stamped "781" (recovered in 1921)-----	780.103
Stratford, 0.6 mi. S. of, 4.5 mi. E. of Polo, at Loughridge School, near SE. cor. sec. 7, T. 23 N., R. 9 E., in NW. angle of crossroads, in root of tree; copper nail and washer-----	822.32
Stratford, 1.6 mi. S. of, near SW. cor. sec. 17, T. 23 N., R. 9 E., 30 ft. N. and 25 ft. E. from crossroads; standard iron post with bronze cap stamped "837" (recovered in 1921)-----	836.329
Reference mark, in NE. angle of crossroads, in root of tree; copper nail and washer-----	836.26
Stratford, 2.6 mi. S. of, near NE. cor. sec. 30, T. 23 N., R. 9 E., in SW. angle of crossroads, in root of tree; copper nail and washer-----	848.43

# 1372 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Stratford, 3.6 mi. S. of, at Pennsylvania Corners, near NE. cor. sec. 31, T. 23 N., R. 9 E., in SW. angle of crossroads, in root of tree; copper nail and washer-----	Feet 801.20
3. From point 1.6 miles north and 0.9 mile east from Franklin Grove along roads generally south to point 0.2 mile north and 1.3 miles east from Lee Center (by H. S. Senseney in 1916)	
Franklin Grove, 0.3 mi. S. thence 1.1 mi. E. from, near center of sec. 6, T. 21 N., R. 11 E., 90 ft. S. and 20 ft. E. from junction of rd. W.; standard iron post with bronze cap stamped "814" (recovered in 1934) -----	813.563
Reference mark, 110 ft. S. of rd. junction, on E. side of rd., in root of tree; copper nail and washer-----	812.91
Franklin Grove, 1.8 mi. S. of, near S¼ cor. sec. 12, T. 21 N., R. 10 E., 30 ft. N. and 30 ft. W. from offset crossroads; standard iron post with bronze cap stamped "807" (recovered in 1934 and reported on slope of deep ditch) -----	806.270
Reference mark, in SW. angle of offset crossroads, on boulder; chiseled square-----	803.88
Franklin Grove, 2.8 mi. S. of, near S¼ cor. sec. 13, T. 21 N., R. 10 E., in NE. angle of offset crossroads, on rock; chiseled square-----	822.14
Franklin Grove, 4.3 mi. S. and 0.7 mi. E. from, near quarter corner between secs. 25 and 30, T. 21 N., Rs. 10 and 11 E., in NE. angle of crossroads, in root of tree; copper nail and washer-----	849.74
Franklin Grove, 4.3 mi. S. and 1.2 mi. E. from, 2.2 mi. N. and 0.3 mi. E. from Lee Center, near center of sec. 30, T. 21 N., R. 11 E., 30 ft. S. and 25 ft. E. from crossroads; standard iron post with bronze cap stamped "847"-----	846.037
Reference mark, in SW. angle of crossroads, in root of tree; copper nail and washer-----	846.88
Lee Center, 2.2 mi. N. and 1.3 mi. E. from, near center of sec. 29, T. 21 N., R. 11 E., in SE. angle of crossroads, in root of tree; copper nail and washer-----	826.55
Lee Center, 1.2 mi. N. and 1.3 mi. E. from, near center of sec. 32, T. 21 N., R. 11 E., at junction of rd. W., on E. side of rd., on base of fence post; chiseled square-----	837.02
[Continued in Amboy quadrangle, line 1]	
4. From point 1.6 miles south of Eldena along roads north and west to Dixon (by H. S. Senseney in 1916; releveled from bench mark stamped "747" to Dixon by H. S. Hall in 1941)	
[Continued from Amboy quadrangle, line 1]	
Eldena, 1.0 mi. S. and 0.1 mi. W. from, 0.2 mi. W. of N¼ cor. sec. 1, T. 20 N., R. 9 E., 35 ft. S. and 25 ft. E. from junction of rd. W.; standard iron post with bronze cap stamped "793"-----	792.618
Eldena, 1.0 mi. S. and 1.4 mi. W. from, near NE. cor. sec. 3, T. 20 N., R. 9 E., in SW. angle of offset crossroads, in root of tree; copper nail and washer-----	795.64
Eldena, 1.0 mi. S. and 2.4 mi. W. from, near SW. cor. sec. 34, T. 21 N., R. 9 E., at offset crossroads, on N. side of rd., 75 ft. E. of rd. N., on boulder; chiseled square-----	781.95

Eldena, 1.0 mi. S. and 3.4 mi. W. from, 6.0 mi. S. and 0.3 mi. E. from Abraham Lincoln Bridge in Dixon, near SW. cor. sec. 33, T. 21 N., R. 9 E., 45 ft. N. and 25 ft. E. from offset crossroads; standard iron post with bronze cap stamped "747" <sup>45</sup> -----	Feet 746.084
Dixon, 5.0 mi. S. and 0.7 mi. W. from, near NE. cor. sec. 31, T. 21 N., R. 9 E., in SW. angle of junction of T-rd. W., on SE. corner of pump base; chiseled square-----	723.27
Dixon, 4.0 mi. S. and 0.7 mi. W. from, near NE. cor. sec. 30, T. 21 N., R. 9 E., 20 ft. S. and 25 ft. W. from crossroads; standard iron post with bronze cap stamped "737"-----	735.973
Dixon, 3.0 mi. S. and 0.7 mi. W. from, near Lievan School, near SW. cor. sec. 17, T. 21 N., R. 9 E., 120 ft. N. of crossroads, on SE. corner of bridge over ditch; chiseled square-----	708.65
Dixon, at SE. corner of intersection of Lincoln Avenue and Third Street, on curb; chiseled square-----	671.44
5. From point 0.6 mile south and 1.7 miles east from Stratford west and south along roads to point 1.6 miles south of Stratford (by E. O. Brooks in 1921)	
Stratford, 0.6 mi. S. of, 4.5 mi. E. of Polo, near SE. cor. sec. 7, T. 23 N., R. 9 E., in NW. angle of crossroads, in root of 24-in. maple tree; copper nail and washer-----	822.18
Stratford, 0.6 mi. S. of, 4.5 mi. E. of Polo, near SE. cor. sec. 7, T. 23 N., R. 9 E., in NW. angle of crossroads, 10 ft. N. of right-of-way fence W., 5 ft. NE. of tree mentioned in previous description, in root of 30-in. maple tree; copper nail and washer-----	822.58
6. From point 1.7 miles west of Ashton along roads alternately west and south to point 1.8 miles south of Franklin Grove (by U. K. Sick in 1934; leveled twice from point 2.2 miles west of Ashton)	
[Continued from Rochelle quadrangle, line 7]	
Ashton, 1.9 mi. W. of, 1.6 mi. N. and 2.3 mi. E. from Franklin Grove, 330 ft. E. of center of sec. 29, T. 22 N., R. 11 E., on N. head wall of culvert; chiseled square-----	827.04
Franklin Grove, 1.6 mi. N. and 0.9 mi. E. from, 0.25 mi. W. of center of sec. 30, T. 22 N., R. 11 E., in SW. angle of crossroads, on W. head wall of concrete culvert under rd. S.; chiseled square-----	845.26
Franklin Grove, 0.4 mi. N. and 0.9 mi. E. from, near center of SW $\frac{1}{4}$ sec. 31, T. 22 N., R. 11 E., 900 ft. N. of crossroads, on W. head wall of culvert; chiseled square-----	814.99
Franklin Grove, 0.8 mi. S. and 1.4 mi. E. from, 0.25 mi. W. of NE. cor. sec. 7, T. 21 N., R. 11 E., 260 ft. W. of junction of T-rd. S., on S. end of concrete pipe culvert; chiseled square-----	809.68
7. From point 2.4 miles south and 1.5 miles west from Chana along roads west 0.5 mile, thence generally south to point 2.2 miles west of Ashton (by U. K. Sick in 1934)	

[Continued from Rochelle quadrangle, line 8]

Chana, 3.7 mi. S. and 1.9 mi. W. from, 0.3 mi. S. of N $\frac{1}{4}$ cor. sec. 5, T. 22 N., R. 11 E., 0.3 mi. S. of junction of T-rd. S., on W. end of metal culvert; chiseled square-----	764.55
Chana, 5.0 mi. S. and 1.9 mi. W. from, 2.9 mi. N. and 2.0 mi. W. from Ashton, 360 ft. S. of center of sec. 8, T. 22 N., R. 11 E., on W. head wall of concrete culvert; chiseled square-----	837.02

<sup>45</sup> In 1940 this bench mark was reset, at the same elevation, in a concrete block. Its new position is 45 ft. north and 82 ft. east from junction of U. S. Highway 30 and road north.

# 1374 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Ashton, 1.7 mi. N. and 2.0 mi. W. from, 0.23 mi. N. of S¼ cor. sec. 17, T. 22 N., R. 11 E., 0.27 mi. S. of junction of T-rd. W., on W. head wall of concrete culvert; chiseled square-----	<i>Feet</i> 824.66
Ashton, 1.3 mi. N. and 2.2 mi. W. from, near center of NW¼ sec. 20, T. 22 N., R. 11 E., 360 ft. NE. and 28 ft. NW. from angle S. in rd., in root of tree; nail and washer-----	845.60

## 8. In Dixon (by H. S. Hall in 1941)

U. S. C. & G. S. standard disk stamped "Dixon 1934"-----	656.293
U. S. C. & G. S. standard disk stamped "M 46 1934"-----	685.606
U. S. C. & G. S. standard disk stamped "L 46 1934"-----	693.735

# EARLVILLE QUADRANGLE

[Latitude 41°30'–41°45'; longitude 88°45'–89°00']

DE KALB, LA SALLE, AND LEE COUNTIES

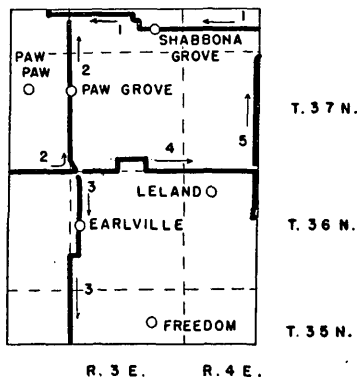


FIGURE 229.—Lines of leveling in Earlvile quadrangle.

1. From crossroads 4 miles north of Victor along roads west and north by way of Shabbona Grove to point about 4 miles north and 1.2 miles east from Paw Paw (by G. F. Williams in 1923)

[Connects with line 2 in Plano quadrangle]

Victor, 4.0 mi. N. and 1.0 mi. W. from, 4.4 mi. E. of Shabbona Grove, 2.5 mi. S. of Waterman, near SW. cor. sec. 27, T. 38 N., R. 4 E., in NE. angle of crossroads, at fence corner, in root of 30-in. elm tree; copper nail and washer-----	Feet 769.39
Shabbona Grove, 2.8 mi. E. of, near S¼ cor. sec. 29, T. 38 N., R. 4 E., on N. side of rd., 90 ft. E. of fence corner, in root on NE. side of 20-in. wild-cherry tree; copper nail and washer-----	782.86
Shabbona Grove, 2.5 mi. E. of, 0.25 mi. E. of NW. cor. sec. 32, T. 38 N., R. 4 E., in SW. angle of crossroads, 2 ft. W. of fence corner, in concrete post; standard tablet stamped "39 W 1923"-----	782.827
Reference mark, in NE. angle of crossroads, 45 ft. E. of SW. corner of schoolyard fence, in schoolyard, in root on SW. side of 24-in. maple tree; copper nail and washer-----	784.47
Shabbona Grove, 1.7 mi. E. of, 0.16 mi. E. of SW. cor. sec. 30, T. 38 N., R. 4 E., 40 ft. N. and 65 ft. W. from junction of T-rd. S., on N. side of E.-W. rd., in field, in root on S. side of 36-in. maple tree; copper nail and washer-----	803.34
Shabbona Grove, 1.1 mi. E. of, 0.17 mi. W. of SE. cor. sec. 25., T. 38 N., R. 3 E., on E. end of N. head wall of concrete culvert; chiseled square-----	788.02
Shabbona Grove, 30 ft. S. of junction of T-rd. N., in yard of dwelling, in root on NE. side of 15-in. cottonwood tree; copper nail and washer-----	834.12

1376 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Shabbona Grove, 0.9 mi. W. of, 0.25 mi. W. of NE. cor sec. 34, T. 38 N., R. 3 E., 30 ft. S. and 35 ft. W. from crossroads, 2 ft. E. of fence corner; standard iron post with bronze cap stamped "Prim Trav Sta No 36 1914 W 40" <sup>46</sup> -----	<i>Feet</i> 850.130
Reference mark, in NE. angle of crossroads, 10 ft. W. of fence, at SW. corner of field, on N. head wall of concrete culvert, under E.-W. rd.; chiseled square <sup>46</sup> -----	877.24
Shabbona Grove, 1.0 mi. N. and 1.1 mi. W. from, 1.5 mi. S. of Shabbona, near N¼ cor. sec. 27, T. 38 N., R. 3 E., 30 ft. S. and 30 ft. E. from junction of T-rd. W., 20 ft. S. of fence corner, in root between two wild-cherry trees; copper nail and washer (recovered in 1924)-----	874.41
Shabbona Grove, 1.0 mi. N. and 2.1 mi. W. from, near N¼ cor. sec. 28, T. 38 N., R. 3 E., on S. head wall of concrete bridge; chiseled square-----	873.47
Shabbona Grove, 1.0 mi. N. and 2.6 mi. W. from, near SE. cor. sec. 20, T. 38 N., R. 3 E., on N. side of rd., 2 ft. E. of center of door of schoolhouse, on E. end of first step; chiseled square-----	905.65
Shabbona Grove, 1.0 mi. N. and 3.6 mi. W. from, near NE. cor. sec. 30, T. 38 N., R. 3 E., on S. side of rd., at junction of T-rd. N., 10 ft. E. of fence corner, in concrete post; standard tablet stamped "41 W 1923" (recovered in 1930)-----	936.166
Reference mark, 165 ft. W. of rd. junction, on N. side of E.-W. rd., in root on S. side of 24-in. maple tree; copper nail and washer (recovered in 1930)-----	937.92
Shabbona Grove, 1.0 mi. N. and 4.6 mi. W. from, 4.0 mi. N. and 2.2 mi. E. from Paw Paw, 3.3 mi. S. of Lee, near NW. cor. sec. 30, T. 38 N., R. 3 E., at De Kalb-Lee county line, in SE. angle of crossroads, 15 ft. S. of NW. corner of yard fence of dwelling, in yard, in root on N. side of 24-in. maple tree; copper nail and washer (recovered in 1930)-----	966.49

[Continued in De Kalb quadrangle, line 5]

2. From point 4.1 miles south and 1.1 miles west from Paw Paw east along La Salle-Lee county-line road and north along De Kalb-Lee county-line road to point 4 miles north of Paw Grove (by G. W. Moore in 1930)

[Continued from Mendota quadrangle, line 4]

Paw Paw, 4.1 mi. S. and 1.0 mi. W. from, 4.0 mi. E. of Welland, near NW. cor. sec. 3, T. 36 N., R. 2 E., 20 ft. S. and 30 ft. E. from junction of T-rd. S., in concrete post; aluminum tablet stamped "Prim Trav Sta No 106 S 1922"-----	778.121
Reference mark, 46 ft. N. and 96 ft. W. from tablet, in root on S. side of forked walnut tree; copper nail and washer-----	778.84
Paw Paw, 4.1 mi. S. of, near NW. cor. sec. 2, T. 36 N., R. 2 E., 0.19 mi. E. of junction of T-rd. S., 0.21 mi. E. of junction of T-rd. N., 25 ft. S. of rd., in root on SW. side of forked willow tree; copper nail and washer-----	748.86
Paw Paw, 4.1 mi. S. and 1.0 mi. E. from, 0.1 mi. E. of NW. cor. sec. 1, T. 36 N., R. 2 E., 530 ft. E. of junction of T-rd. N., at E. abutment of bridge, on S. parapet; chiseled square-----	733.72

<sup>46</sup> In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "V 50 1934," elevation 817.594 ft.

Paw Paw, 4.1 mi. S. and 2.2 mi. E. from, 4.0 mi. S. of Paw Grove, 2.9 mi. NW. of Earlville, 0.23 mi. E. of SW. cor. sec. 31, T. 37 N., R. 3 E., 1,240 ft. E. of corner of La Salle, Lee, and De Kalb Counties, 40 ft. N. and 30 ft. E. from crossroads, in concrete post; aluminum tablet stamped "Prim Trav Sta No 107 S 1922" (recovered in 1934)-----	<i>Feet</i> 724. 961
Reference mark, 460 ft. N.30°W. of tablet, on S. end of E. head wall of concrete culvert; chiseled square (recovered in 1934)-----	723. 02
Paw Grove, 3.5 mi. S. of, near W¼ cor. sec. 31, T. 37 N., R. 3 E., 25 ft. N. and 20 ft. W. from junction of rd. W. to elevators, on E. end of S. head wall of concrete culvert under E.-W. rd.; chiseled square-----	739. 31
Paw Grove, 2.2 mi. S. of, 0.22 mi. S. of NW. cor. sec. 30, T. 37 N., R. 3 E., 27 ft. E. of rd., 10 ft. N. of fence W., 165 ft. N. of fence E., in root on W. side of 19-in. hackberry tree; copper nail and washer----	768. 92
Paw Grove, 1.5 mi. S. of, 40 ft. N. and 20 ft. W. from E¼ cor. sec. 24, T. 37 N., R. 2 E., 40 ft. N. of rd., 20 ft. W. of gate to schoolyard, in concrete post; aluminum tablet stamped "Prim Trav Sta No 110 S 1922"-----	795. 058
Reference mark, 85 ft. SE. of tablet, 30 ft. S. and 35 ft. E. from junction of T-rd. S., in root on N. side of 36-in. oak tree; copper nail and washer-----	793. 18
Paw Grove, 1.5 mi. S. and 0.5 mi. E. from, near center of sec. 19, T. 37 N., R. 3 E., 108 ft. W. of junction of T-rd. S., 40 ft. N. and 28 ft. W. from junction of T-rd. N., in root on E. side of 24-in. ash tree; copper nail and washer-----	773. 88
Paw Grove, 1.1 mi. SE. of, 0.4 mi. E. of SW. cor. sec. 18, T. 37 N., R. 3 E., 300 ft. NW. of junction of rd. E., 24 ft. SW. of rd., in root on SW. side of 18-in. locust tree; copper nail and washer-----	794. 46
Paw Grove, 50 ft. N. and 20 ft. W. from crossroads, at De Kalb-Lee county line, in concrete post; aluminum tablet stamped "Prim Trav Sta No 111 S 1922"-----	895. 164
Reference mark, 175 ft. SE. of tablet, 40 ft. S. and 45 ft. E. from junction of E.-W. rd. and rd. SE., in root on SW. side of 24-in. hackberry tree; copper nail and washer-----	895. 22
Paw Grove, 0.8 mi. N. of, near NW. cor. sec. 7, T. 37 N., R. 3 E., 620 ft. S. of section-line fence E., 158 ft. N. and 2 ft. E. of fence corner, 27 ft. E. of rd., in root on NW. side of twin maple tree nearest fence corner; copper nail and washer-----	933. 65
Paw Grove, 1.5 mi. N. of, 0.1 mi. N. of W¼ cor. sec. 6, T. 37 N., R. 3 E., 500 ft. N. of junction of T-rd. W., on E. parapet of S. concrete abutment of large steel bridge; chiseled square-----	909. 74
Paw Grove, 2.4 mi. N. of, 0.39 mi. N. of S. cor. secs. 31 and 36, T. 38 N., Rs. 2 and 3 E., 175 ft. S. of crossing of Chicago, Burlington & Quincy R. R., 25 ft. E. of rd., in root on E. side of forked cherry tree; copper nail and washer-----	935. 49
Paw Grove, 2.7 mi. N. of, 0.28 mi. S. of NW. cor. sec. 31, T. 38 N., R. 3 E., 55 ft. N. and 38 ft. E. from junction of T-rd. E., in root on NW. side of 9-in. catalpa tree; copper nail and washer-----	955. 35
3. From road junction 2.9 miles north of Earlville generally south along roads to point 2.1 miles north of Prairie Center (by G. W. Moore in 1930)	
Earlville, 1.7 mi. N. of, near S¼ cor. sec. 6, T. 36 N., R. 3 E., 75 ft. N. of crossroads, on N. end of E. head wall of concrete culvert; chiseled square-----	707. 80

# 1378 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Earlville, 0.7 mi. N. of, near S¼ cor. sec. 7, T. 36 N., R. 3 E., 260 ft. N. of E.-W. section-line fence, 630 ft. N. of crossing of Chicago & North Western Ry., on E. parapet of S. abutment of concrete highway bridge; chiseled square-----	<i>Feet</i> 693.46
Earlville, 225 ft. S. of N. track of C. B. & Q. R. R. at crossing about 300 ft. E. of sta., 25 ft. S. of South Railroad Street, 27 ft. E. of Paw Paw Street, in NW. corner of lower concrete step of sidewalk; chiseled square "	703.00
Earlville, 0.4 mi. S. of, near S¼ cor. sec. 18, T. 36 N., R. 3 E., 85 ft. N. and 50 ft. E. from crossroads, at NW. corner of Willey's Motor Inn, on concrete highway; chiseled square-----	696.63
Earlville, 0.9 mi. S. of, near center of sec. 19, T. 36 N., R. 3 E., 65 ft. W. and 30 ft. S. from crossroads, in concrete post; aluminum tablet stamped "Prim Trav Sta No 108 S 1922"-----	695.396
Reference mark, 33 ft. E. of tablet, 35 ft. S. and 32 ft. W. from crossroads, inside fence, in root on NE. side of 22-in. maple tree; copper nail and washer-----	695.62
Earlville, 2.0 mi. S. of, near center of sec. 30, T. 36 N., R. 3 E., 31 ft. S. and 20 ft. W. from junction of rd. N., in farmyard of Louis Schou, 19 ft. N. of house, in root on N. side of 30-in. maple tree; copper nail and washer-----	706.90
Earlville, 2.0 mi. S. and 0.5 mi. W. from, near W¼ cor. sec. 30, T. 36 N., R. 3 E., in SE. angle of offset crossroads, 100 ft. S. of junction of T-rd. W., 50 ft. S. and 35 ft. E. from junction of T-rd. E., in root on E. side of 39-in. cottonwood tree; copper nail and washer-----	711.56
Earlville, 2.9 mi. S. and 0.5 mi. W. from, near W¼ cor. sec. 31, T. 36 N., R. 3 E., 265 ft. S. of T-fence W., 27 ft. E. of rd., opposite farmhouse of W. Williams, at top of hill, in root on SW. side of twin maple tree; copper nail and washer-----	702.21
Earlville, 3.4 mi. S. and 0.5 mi. W. from, near SE. cor. sec. 36, T. 36 N., R. 2 E., 70 ft. N. and 30 ft. W. from crossroads, in concrete post; aluminum tablet stamped "Prim Trav Sta No 109 S 1922"-----	686.861
Reference mark, 150 ft. SE. of tablet, 50 ft. S. and 45 ft. E. from crossroads, in root on NW. side of twin crab-apple tree; copper nail and washer-----	685.20
Earlville, 4.4 mi. S. and 0.5 mi. W. from, near SE. cor. sec. 1, T. 35 N., R. 2 E., in NW. angle of offset crossroads, 19 ft. S. and 25 ft. W. from junction of T-rd. E., 31 ft. N. and 25 ft. W. from junction of T-rd. W., 6 ft. N. of fence corner, 0.6 ft. E. of fence, on top of square concrete base of iron fence post brace; chiseled square----	677.54
Earlville, 5.2 mi. S. and 0.5 mi. W. from, 0.2 mi. N. of SE. cor. sec. 12, T. 35 N., R. 2 E., at first farmhouse S. of junction of rd. E., 25 ft. W. of rd., 25 ft. S. of front gate, in root on E. side of 14-in. maple tree; copper nail and washer-----	677.54

[Continued in Ottawa quadrangle, line 7]

4. From road junction 2.9 miles north of Earlville east along township-line road to point 4 miles west of Somonauk, thence south to point 1.4 miles south and 2.5 miles east from Leland (by C. G. Dickinson in 1934)

Earlville, 2.7 mi. N. and 0.5 mi. E. from, near NW. cor. sec. 5., T. 36 N., R. 3 E., 325 ft. S. and 25 ft. E. from junction of T-rd. W., on N. head wall of concrete culvert; chiseled square-----	716.85
--	--------

"In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "Earlville 1934," elevation 705.120 ft.

T. 36 N., R. 3 E., near NE. cor. sec. 5, 88 ft. S. and 20 ft. W. from junction of T-rd. E., in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "4 1 1934"-----	Feet 703.057
T. 37 N., R. 3 E., 550 ft. N. of S $\frac{1}{4}$ cor. sec. 33, 3.0 mi. in air line S. of Rollo, 42 ft. NW. of NW. corner of Morgan farmhouse, in root of 30-in. maple tree; spike-----	704.59
T. 37 N., R. 3 E., 0.25 mi. W. of center of sec. 34, 25 ft. N. and 45 ft. W. from crossroads, in concrete post; standard tablet stamped "T T Sta No 172 F 1929"-----	706.825
T. 37 N., R. 3 E., 0.2 mi. W. of E $\frac{1}{4}$ cor. sec. 34, 320 ft. E. of junction of T-rd. N., in S. head wall of culvert; monel-metal rivet-----	704.62
T. 37 N., R. 3 E., 0.25 mi. E. of SW. cor. sec. 35, 230 ft. N. of junction of T-rd. N., on W. head wall of culvert; chiseled square-----	704.44
T. 37 N., R. 3 E., near SW. cor. sec. 36, 1.2 mi. N. and 2.0 mi. W. from Leland, 22 ft. N. and 90 ft. E. from crossroads, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "4 2 1934"-----	701.834
Leland, 1.2 mi. N. and 1.0 mi. W. from, near SW. cor. sec. 31, T. 37 N., R. 4 E., 380 ft. E. of junction of T-rd. S., 12 ft. NE. of NE. corner of bridge over Little Indian Creek, on W. end of concrete retaining wall; chiseled square-----	694.84
Leland, 1.2 mi. N. of, near N $\frac{1}{4}$ cor. sec. 5, T. 36 N., R. 4 E., 27 ft. S. and 35 ft. E. from crossroads, in concrete post; standard tablet stamped "T T Sta No 173 F 1929"-----	703.253
Leland, 1.2 mi. N. and 1.1 mi. E. from, near quarter corner between secs. 4 and 33, Tps. 36 and 37 N., R. 4 E., 600 ft. E. of junction of T-rd. N., 140 ft. SE. of farmhouse of Levi Oleson, in root of 18-in. cedar tree; spike-----	706.94
Leland, 1.2 mi. N. and 1.7 mi. E. from, 0.2 mi. E. of NW. cor. sec. 3, T. 36 N., R. 4 E., in NW. end of SE. abutment of small bridge; monel-metal rivet-----	696.67
Leland, 1.2 mi. N. and 2.5 mi. E. from, 4.0 mi. W. of Somonauk, near NE. cor. sec. 3, T. 36 N., R. 4 E., 15 ft. S. and 45 ft. W. from crossroads, in S. head wall of culvert; monel-metal rivet-----	699.27
Leland, 0.4 mi. N. and 2.5 mi. E. from, 0.25 mi. S. of W $\frac{1}{4}$ cor. sec. 2, T. 36 N., R. 4 E., 275 ft. S. and 35 ft. E. from crossing of C. B. & Q. R. R. and State Highway 23, at junction of State Highway 23 and U. S. Highway 34, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "5 7 1934" <sup>48</sup> -----	687.690
Reference mark, 0.1 mi. NE. of highway junction, 75 ft. S. of center line of railroad track, 41 ft. N. of U. S. Highway 34, in root on SE. side of lone evergreen tree; copper nail and washer (established in 1936)-----	691.19
Leland, 0.3 mi. S. and 2.5 mi. E. from, near E $\frac{1}{4}$ cor. sec. 10, T. 36 N., R. 4 E., 600 ft. S. of crossroads, in W. end of S. abutment of highway bridge; monel-metal rivet-----	668.42
Leland, 0.8 mi. S. and 2.5 mi. E. from, near N. cor. secs. 14 and 15, T. 36 N., R. 4 E., 43 ft. S. and 17 ft. E. from crossroads, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "4 3 1934"---	677.982

<sup>48</sup> In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "R 49 1934," elevation 690.812 ft.

## 1380 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

[Continued in Plano quadrangle, line 3]

5. From crossroads 1.2 miles north and 2.5 miles east from Leland north along State Highway 23 to point about 3 miles north of Victor (by C. G. Dickinson in 1934)

Leland, 2.2 mi. N. and 2.5 mi. E. from, 2.0 mi. S. of Victor, near NW. cor. sec. 35, T. 37 N., R. 4 E., 50 ft. S. and 27 ft. E. from crossroads, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "5 8 1934"-----	<i>Feet</i> 707.567
Victor, 1.0 mi. S. of, near SW. cor. sec. 23, T. 37 N., R. 4 E., 15 ft. N. and 25 ft. E. from crossroads, in N. head wall of small concrete culvert; monel-metal rivet-----	738.32
Victor, 40 ft. N. and 30 ft. W. from crossroads, near SE. cor. sec. 15, T. 37 N., R. 4 E., in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "5 9 1934"-----	731.644
Victor, 0.9 mi. N. of, 400 ft. S. of NW. cor. sec. 14, T. 37 N., R. 4 E., on N. end of E. head wall of concrete culvert; chiseled square-----	727.72
Victor, 2.0 mi. N. of, near SE. cor. sec. 3, T. 37 N., R. 4 E., 45 ft. N. and 25 ft. W. from crossroads, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "5 10 1934"-----	735.989
Victor, 2.3 mi. N. of, 4.2 mi. S. and 1.0 mi. E. from Waterman, 0.2 mi. S. of W $\frac{1}{4}$ cor. sec. 2, T. 37 N., R. 4 E., on E. side of highway, in root on W. side of 21-in. wild-cherry tree, northernmost in row of trees; spike-----	738.36

[Continued in Plano quadrangle, line 4]

# EAST DUBUQUE QUADRANGLE

[Latitude 42°15'–42°30'; longitude 90°30'–90°45']

## JO DAVIESS COUNTY

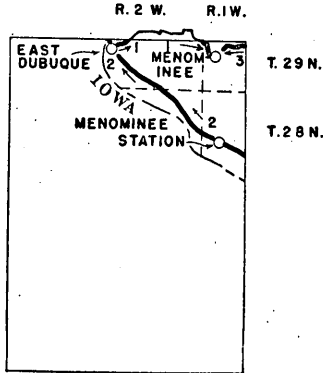


FIGURE 230.—Lines of leveling in East Dubuque quadrangle.

1. From East Dubuque southeast along streets, thence generally north-east and southeast along roads to Menominee (by W. J. Drath in 1934)

[Continued from Iowa]

East Dubuque, in SE. part of, 43 ft. NW. of E. city limits, on right-of-way of Illinois Central R. R., 16 ft. NE. of center line of NE. passing track, 3 ft. NE. of line of telegraph poles, on SW. side of U. S. Highway 20, opposite red barn of C. H. Heller; Mississippi River Comm. B. M. "Upper Base"

cap on iron pipe-----	Feet 612.130
bolt in tile-----	608.200

East Dubuque, in NE. corner of intersection of Wisconsin and Sinsinawa Avenues, in SW. corner of yard of City Hall, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "612" -----

611.667

East Dubuque, 1.0 mi. NE. of City Hall, near quarter corner between secs. 20 and 21, T. 29 N., R. 2 W., on S. side of State Highway 35, at section-line crossing, on top of W. concrete head wall of culvert under driveway to farm buildings; chiseled square<sup>40</sup> -----

825.97

[Jogs into Dickeysville quadrangle, line 1]

Menominee, 0.9 mi. NW. of, 0.25 mi. W. of center of sec. 19, T. 29 N., R. 1 W., at angle S. in rd., 30 ft. S. of center line of rd. W., 50 ft. S. of center line of private rd. E., on E. edge of rd., in root on W. side of 10-in oak tree; copper nail and washer-----

883.72

<sup>40</sup> This bench mark appears also in Dickeysville quadrangle.

# 1382 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Menominee, 240 ft. NW. of NW. end of concrete bridge over Little Menominee River, on SW. side of rd., opposite rd. NE., 225 ft. SE. of point in line with SE. side of Catholic Church, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "761"-----	<i>Feet</i> 760.514
Reference mark 1, 240 ft. SE. of tablet, on top of NW. end of SW. side wall of bridge, about 4.5 ft. higher than floor; chiseled square-----	752.98
Reference mark 2, 120 ft. SE. of tablet, on SW. side of rd., at concrete steps leading to residence on terrace, on E. corner of lower step, sixth step from bottom; chiseled square-----	757.24
2. From point 3.8 miles northwest of Galena Junction northwest along Chicago, Burlington & Quincy and Illinois Central Railroads to East Dubuque (by S. R. Archer in 1934)	

[Continued from Galena quadrangle, line 5]

Galena Junction, 4.0 mi. NW. of, 1.6 mi. SE. of Menominee Sta., about 0.3 mi. NW. of center of sec. 21, T. 28 N., R. 1 W., at NW. concrete abutment of C. B. & Q. R. R. bridge over Sinsinawa River, southwesternmost of two R. R. bridges, in top of SW. end of bridge seat; standard tablet stamped "601"-----	601.031
Menominee Sta., 0.8 mi. SE. of, near S $\frac{1}{4}$ cor. sec. 17, T. 28 N., R. 1 W., on NE. side of track, 35 ft. SE. of milepost C-173 O-343, 2 ft. SE. of NW. end of NE. head wall of concrete culvert 173-0 under I. C. R. R.; chiseled square-----	607.71
Menominee Sta., 0.2 mi. SE. of, in SE $\frac{1}{4}$ sec. 18, T. 28 N., R. 1 W., on S. side of track, at S. end of E. abutment of C. B. & Q. R. R. bridge 173-7-S, on top of parapet; chiseled square-----	608.19
Menominee Sta., 0.2 mi. W. of, near center of sec. 18, T. 28 N., R. 1 W., 375 ft. W. of milepost C-174 O-342, at W. abutment of C. B. & Q. R. R. bridge 174-0-S over Little Menominee River, southernmost of two R. R. bridges, on top of S. end of bridge seat; standard tablet stamped "604"-----	603.977
Menominee Sta., 1.1 mi. NW. of, in NE $\frac{1}{4}$ fractional sec. 13, T. 28 N., R. 2 W., 440 ft. NW. of private rd. crossing, on NE. side of C. B. & Q. lower (SW.) track, 60 ft. NW. of point in line with milepost C-175 O-341, 15 ft. SE. of point in line with semaphore W-175.1 (milepost and semaphore both on upper track), on top of N. corner of concrete base of track relay box; chiseled square-----	610.04
Menominee Sta., 2.2 mi. NW. of, 0.35 mi. S. of NW. cor. fractional sec. 12, T. 28 N., R. 2 W., 330 ft. NW. of milepost C-176 O-340, at trail from top of bluff across tracks to duck pens on river, on NE. end of 36-in. cast-iron pipe culvert under C. B. & Q. R. R. (SW., or lower, track); chiseled square-----	607.23
Menominee Sta., 3.2 mi. NW. of, near center of sec. 2, T. 28 N., R. 2 W., on NE. side of tracks, 330 ft. NW. of milepost C-177 O-339, on track side of large concrete battery tank, on top of ledge, outlet for wire connections; center of bronze plate marked "C. E. Massey Co. Makers"-----	611.27
Menominee Sta., 3.9 mi. NW. of, 3.6 mi. SE. of City Hall in East Dubuque, near NE. cor. fractional sec. 3, T. 28 N., R. 2 W., 0.19 mi. SE. of milepost C-178 O-338, at NW. concrete abutment of I. C. R. R. bridge 177-9 over Menominee River, northeasternmost of two R. R. bridges, in top of SW. end of bridge seat; standard tablet stamped "609"-----	609.370

East Dubuque, 2.6 mi. SE. of, near E $\frac{1}{4}$ cor. sec. 33, T. 29 N., R. 2 W., 530 ft. SE. of milepost C-179 O-337, 565 ft. SE. of rd. crossing, at private rd. crossing, on NE. side of tracks, on SE. end of NE. head wall of concrete culvert under I. C. R. R.; chiseled square-----	<i>Feet</i> 626.58
East Dubuque, 1.9 mi. SE. of, 0.2 mi. S. of N $\frac{1}{4}$ cor. sec. 33, T. 29 N., R. 2 W., at foot of bluff along U. S. Highway 20, opposite and 328 ft. E. of large barn in draw, 49 ft. W. of N.-S. fence between Kelly property on W. and Fentress property on E., 26 ft. S. of center line of highway, opposite concrete spillway down side of cut, 10 ft. E. of concrete culvert, 3 ft. N. of S. right-of-way fence of highway; Mississippi River Comm. B. M. 179/1 cap on iron pipe----- bolt in tile-----	627.010 623.040
East Dubuque, 1.4 mi. SE. of, near cor. secs. 28, 29, 32, and 33, T. 29 N., R. 2 W., near R. R. milepost C-180 O-336, on NW. end of NE. head wall of concrete culvert under U. S. Highway 20; chiseled square----	614.94
East Dubuque, 430 ft. SE. of E. city limits of, 50 ft. SE. of highway marker "East Dubuque City Limits," 60 ft. NW. of junction of rd. NE., on NW. end of NE. head wall of concrete culvert under highway; chiseled square-----	621.34
East Dubuque, in NE. angle of intersection of Wisconsin and Sinsinawa Avenues, at main (S.) entrance to City Hall, on top of W. end of stone doorsill; chiseled square-----	612.89
East Dubuque, in NE. angle of intersection of Wisconsin and Sinsinawa Avenues, at main (S.) entrance to City Hall, on top of E. end of stone doorsill; chiseled square-----	612.92
East Dubuque, at NW. end of R. R. tunnel under Dubuque highway bridge across Mississippi River, on E. side of C. B. & Q. R. R. tracks, on S. side of I. C. R. R. tracks, on W. corner of upstream side of upstream foundation stone supporting triangular truss of highway bridge; highest point of square within old circle marked "B M" (U. S. C. E. B. M. "6") <sup>50</sup> -----	613.988

3. From point 2.2 miles northeast of Menominee west and southwest along roads to Menominee (by S. R. Archer in 1934)

[Continued from Galena quadrangle, line 6]

Menominee, 2.0 mi. NE. of, near W $\frac{1}{4}$ cor. sec. 21, T. 29 N., R. 1 W., 40 ft. S. and 20 ft. W. from junction of rd. SW., 12 ft. S. of fence corner, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "885"-----	884.487
Menominee, 0.8 mi. NE. of, 0.15 mi. S. of W $\frac{1}{4}$ cor. sec. 20, T. 29 N., R. 1 W., at bridge over Little Menominee River, on S. parapet of W. concrete abutment; chiseled square-----	779.57

<sup>50</sup> Reported about 3 ft. underground in 1934.

# EDGINGTON QUADRANGLE

[Latitude 41°15'–41°30'; longitude 90°45'–91°00']

MERCER AND ROCK ISLAND COUNTIES

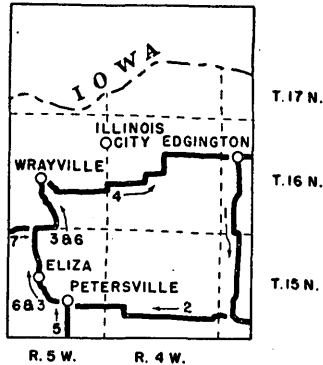


FIGURE 231.—Lines of leveling in Edgington quadrangle.

1. From point 0.7 mile east of Edgington west along road to Edgington, thence south and east to point 0.25 mile east of center of sec. 29, T. 15 N., R. 3 W. (by C. R. French in 1913)

[Continued from Milan quadrangle, line 6]

Edgington, in SW. angle of crossroads, near NE. cor. sec. 18, T. 16 N., R. 3 W., 12 ft. NE. of NE. corner of front yard of dwelling; standard iron post with bronze cap stamped "Prim Trav Sta No 39 1910 785"-----	783.955
Edgington, 3.0 mi. S. thence 0.25 mi. W. from, 0.25 mi. W. of NE. cor. sec. 31, T. 16 N., R. 3 W., in SW. angle of crossroads, 5 ft. N. and 25 ft. W. from fence corner; standard iron post with bronze cap stamped "Prim Trav Sta No 35 1910 779"-----	777.960
Edgington, 5.0 mi. S. of 1.5 mi. W. of Hamlet, near NW. cor. sec. 8, T. 15 N., R. 3 W., in SE. angle of crossroads, in root on E. side of 48-in. cottonwood tree; copper nail and washer-----	802.74
Edgington, 5.9 mi. S. of, 0.1 mi. N. of SW. cor. sec. 8, T. 15 N., R. 3 W., at bridge over Illinois Slough, on E. end of S. abutment; chiseled square-----	734.54
Edgington, 6.5 mi. S. of, near E¼ cor. sec. 18, T. 15 N., R. 3 W., in NW. angle of crossroads, 12 ft. N. and 2 ft. E. from fence corner; standard iron post with bronze cap stamped "777"-----	775.740

[Continued in Milan quadrangle, line 7]

2. From road junction in northeast quarter sec. 30, T. 15 N., R. 3 W., generally west along roads to road junction 0.3 mile south of Petersville (by C. R. French in 1913)

Edgington, 8.2 mi. S. and 1.0 mi. W. from, 1.8 mi. N. and 1.8 mi. E. from Millersburg, 0.2 mi. S. of NW. cor. sec. 30, T. 15 N., R. 3 W., in SE. angle of rd. junction, 0.5 ft. N. and 1.5 ft. E. from fence corner; standard iron post with bronze cap stamped "750" (recovered in 1921)-----	748.882
--	---------

Millersburg, 1.5 mi. N. and 1.3 mi. E. from, at Lunn School, near center of sec. 25, T. 15 N., R. 4 W., at SW. corner of schoolhouse, in root of 36-in. oak tree; copper nail and washer-----	<i>Feet</i> 739.95
Millersburg, 1.5 mi. N. and 0.8 mi. E. from, near E $\frac{1}{4}$ cor. sec. 26, T. 15 N., R. 4 W., in NW. angle of crossroads, on rock 36 in. in diameter; chiseled square-----	729.16
Millersburg, 1.5 mi. N. and 1.2 mi. W. from, 0.8 mi. S. and 5.0 mi. E. from Petersville, near W $\frac{1}{4}$ cor. sec. 27, T. 15 N., R. 4 W., in SE. angle of crossroads, 1 ft. W. of fence corner; standard iron post with bronze cap stamped "715"-----	714.541
Petersville, 0.3 mi. S. and 3.0 mi. E. from, near W. cor. secs. 20 and 29, T. 15 N., R. 4 W., about opposite center line of rd. W., 10 ft. N. of fence line; standard iron post with bronze cap stamped "687"-----	685.831
Petersville, 0.3 mi. S. and 2.0 mi. E. from, near NE. cor. sec. 25, T. 15 N., R. 5 W., on S. side of rd., opposite center line of range-line rd. N., 5 ft. N. of fence corner, on stone; chiseled square-----	668.39
Petersville, 0.3 mi. S. of, near E. cor. secs. 22 and 27, T. 15 N., R. 5 W., on W. side of rd., opposite center line of rd. E., 1.5 ft. E. of fence, 2.5 ft. N. of N. gatepost; standard iron post with bronze cap stamped "674" (recovered in 1931)-----	673.752
3. From road junction 0.3 mile south of Petersville north and west along winding roads by way of Eliza to Wrayville (by C. R. French in 1913)	
Petersville, 0.1 mi. S. of, 0.25 mi. N. of SE. cor. sec. 22, T. 15 N., R. 5 W., in NW. angle of junction of T-rd. W., in root of cherry tree; copper nail and washer (recovered in 1921)-----	675.18
Petersville, 0.9 mi. W. of, in SW $\frac{1}{4}$ sec. 22, T. 15 N., R. 5 W., in NE. angle of rd. junction, 75 ft. N. of center line of E.-W. rd., on SW. corner of concrete walk to dwelling of Madrew Baer; painted square (recovered in 1931)-----	681.30
Petersville, 1.1 mi. W. of, 1.3 mi. SE. of Eliza, in SE $\frac{1}{4}$ sec. 21, T. 15 N., R. 5 W., at bridge over Eliza Creek, in inside row of rivets at S. end of W. truss; head of twelfth rivet from bottom (recovered in 1931)-----	591.32
Eliza, at S. edge of village, near center of sec. 16, T. 15 N., R. 5 W., at SW. corner of jog E. in rd., 25 ft. W. of center line of rd. N., on N. side of fence W. which was S. line of abandoned rd. W., 5 ft. W. of fence corner; standard iron post with bronze cap stamped "695" <sup>51</sup> -----	693.917
Eliza, 2.6 mi. N. and 0.8 mi. E. from, 3.1 mi. SE. of Wrayville, 0.15 mi. W. of N $\frac{1}{4}$ cor. sec. 3, T. 15 N., R. 5 W., on S. side of Mercer-Rock Island county-line rd., opposite W. fence line of rd. N., 1.5 ft. N. of fence; standard iron post with bronze cap stamped "752" (recovered in 1931)-----	751.890
Wrayville, 0.2 mi. N. of center of sec. 21, T. 16 N., R. 5 W., 500 ft. S. of bridge over Copperas Creek, in NE. angle of junction of rd. SE., opposite and in line with S. side of church, 2 ft. W. of fence; standard iron post with bronze cap stamped "585" (recovered in 1931)---	583.951

<sup>51</sup> In 1931 this bench mark was reset and lowered 0.777 ft. The description and elevation given represent the new location.

# 1386 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

## 4. From Wrayville along roads alternately east and north to Edgington (by C. R. French in 1913)

Wrayville, 1.1 mi. SE. thence 0.8 mi. E. from, near SE. cor. sec. 22, T. 16 N., R. 5 W., 115 ft. W. of junction of T-rd. S., on N. side of rd., in root of tree; copper nail and washer-----	<i>Feet</i> 693.22
Wrayville, 1.1 mi. SE. thence 2.8 mi. E. from, 2.5 mi. S. of Illinois City, near NE. cor. sec. 25, T. 16 N., R. 5 W., on W. side of range-line rd., 200 ft. N. of dwelling of John Powell, 15 ft. N. of gate to barn, 1.5 ft. E. of fence; standard iron post with bronze cap stamped "738"-----	737.292
Wrayville, 0.3 mi. N. and 5.5 mi. E. from, 1.0 mi. S. and 5.0 mi. W. from Edgington, near NE. cor. sec. 20, T. 16 N., R. 4 W., on W. side of rd., opposite T-rd. E., 2 ft. S. of S. gatepost, 2 ft. E. of fence; standard iron post with bronze cap stamped "652"-----	650.805
Edgington, 1.0 mi. S. and 4.0 mi. W. from, near SW. cor. sec. 15, T. 16 N., R. 4 W., in NE. angle of crossroads, in base of 18-in. hickory tree; spike-----	721.77
Edgington, 4.0 mi. W. of, near NW. cor. sec. 15, T. 16 N., R. 4 W., in SE. angle of junction of T-rd. E., in fence corner, in root of 18-in. box-elder tree; copper nail and washer-----	749.76
Edgington, 3.0 mi. W. of, at Buffalo Center School, near SE. cor. sec. 10, T. 16 N., R. 4 W., on N. side of rd., opposite W. fence line of T-rd. S., in SE. corner of schoolyard; standard iron post with bronze cap stamped "753"-----	752.266
Edgington, 1.5 mi. W. of, near S $\frac{1}{4}$ cor. sec. 12, T. 16 N., R. 4 W., 50 ft. N. of crossroads, in center of N-S. rd., in root on S. side of 48-in. tree; copper nail and washer-----	767.79

## 5. From point 1.9 miles northeast of Mannon north along road 2 miles to Petersville (by S. R. Archer in 1921)

[Continued from Keithsburg quadrangle, line 3]

Mannon, 2.3 mi. NE. of, 1.5 mi. S. of Petersville, 0.25 mi. S. of NW. cor. sec. 35, T. 15 N., R. 5 W., in NE. angle of junction of T-rd. E., on E. side of N-S. rd., 25 ft. N. of SW. corner of yard of dwelling, in root on E. side of 30-in. cherry tree standing in yard; copper nail and washer-----	667.20
--	--------

## 6. From Petersville north and west along winding roads by way of Eliza to Wrayville (by S. R. Archer in 1931)

Eliza, 1.1 mi. N. of, at Oakdale School, 0.1 mi. W. of center of sec. 9, T. 15 N., R. 5 W., in NW. angle of junction of rd. W., at SE. corner of schoolyard, in root on E. side of 24-in. oak tree; copper nail and washer-----	716.13
Eliza, 1.9 mi. NW. of, 3.5 mi. in air line S. of Wrayville, 0.2 mi. N. and 0.25 mi. W. from S $\frac{3}{4}$ cor. sec. 4, T. 15 N., R. 5 W., 115 ft. N. of dwelling on W. side of rd., 70 ft. E. of rd., in root on N. side of 24-in. maple tree; copper nail and washer-----	793.12
Wrayville, 2.1 mi. SE. of, near NW. cor. sec. 34, T. 16 N., R. 5 W., 55 ft. S. and 40 ft. W. from junction of rd. E., in root on SE. side of 18-in. three-forked elm tree; copper nail and washer-----	736.01
Wrayville, 0.8 mi. S. of, near N $\frac{1}{4}$ cor. sec. 28, T. 16 N., R. 5 W., 70 ft. S. of crossroads, on E. side of rd., in root on E. side of 24-in. oak tree; copper nail and washer-----	671.90

7. From point near northeast corner sec. 6, T. 15 N., R. 5 W., east along Mercer-Rock Island county-line road 2.5 miles to road junction 3.1 miles southeast of Wrayville (by S. R. Archer in 1931)

[Continued from Muscatine quadrangle, line 1]

T. 15 N., R. 5 W., near NW. cor. sec. 5, at S. end of jog S. in rd., on top of W. end of N. head wall, at junction of wing wall; chiseled square -----	<i>Feet</i> 731.91
T. 15 N., R. 5 W., 0.25 mi. W. of NE. cor. sec. 5, 2.7 mi. S. and 0.7 mi. W. from Wrayville, 35 ft. S. and 35 ft. W. from crossroads, in fence corner, in root on NW. side of 28-in. cottonwood tree; copper nail and washer -----	745.99

# ELGIN QUADRANGLE

[Latitude 42°00'–42°15'; longitude 88°15'–88°30']

COOK, KANE, AND McHENRY COUNTIES

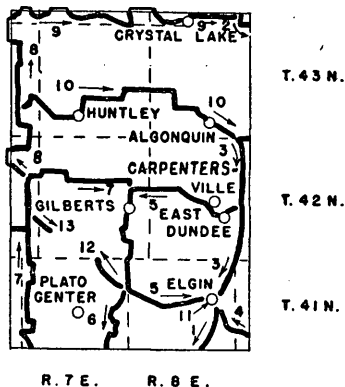


FIGURE 232.—Lines of leveling in Elgin quadrangle.

1. From Elgin south along Aurora, Elgin & Fox River electric railway to South Elgin (by W. A. Gelbach in 1907)

Elgin, at SW. corner of intersection of State Street and Highland Avenue, at Borden's condensed milk factory, at NE. corner of large brick building, in N. wall, 6 in. from corner, in water table; center mark of copper bolt set horizontally (U. S. C. E. B. M. 86; recovered in 1922) -----

Feet  
717.039

[Continued in Geneva quadrangle, line 1]

2. From point 0.6 mile north of Silver Lake south along road to township line, thence east 0.4 mile (by S. L. Parker in 1919)

[Continued from McHenry quadrangle, line 1]

Crystal Lake, 0.3 mi. N. and 3.0 mi. E. from Chicago & North Western Ry. sta., 1.8 mi. S. of Barreville, 0.5 mi. N. of N. shore of Silver Lake, near W $\frac{1}{4}$  cor. sec. 36, T. 44 N., R. 8 E., 53 ft. E. of SW. corner of junction of T-rd. W., on E. side of N.-S. rd.; standard iron post with bronze cap stamped "Prim Trav Sta No 2 1919 840" (recovered in 1923) -----  
Reference mark, on E. side of rd. in line with rd. W., in fence line, in root on W. side of 14-in. locust tree; copper nail and washer -----

840.327  
839.83

[Continued in Barrington quadrangle, line 1]

3. From point on Kane-McHenry county-line road 2.3 miles southeast of Algonquin west to State Highway 62, thence south along road to Elgin (by S. L. Parker in 1919)

[Continued from Barrington quadrangle, line 4]

Algonquin, 1.7 mi. SE. of, 6.6 mi. W. of Barrington, 0.25 mi. W. of SE. cor. sec. 35, T. 43 N., R. 8 E., in NE. angle of junction of county-line rd. and State Highway 62; standard iron post with bronze cap stamped "Prim Trav Sta No 1 1919 865" (recovered in 1923) -----

865.452

Algonquin, 2.0 mi. SE. of, at Diercks School, in NW $\frac{1}{4}$ sec. 1, T. 42 N., R. 8 E., on W. side of door, on SW. corner of concrete platform; chiseled square-----	<i>Feet</i> 870.00
Algonquin, 2.0 mi. SE. thence 0.8 mi. S. from, near SE. cor. sec. 2, T. 42 N., R. 8 E., 10 ft. N. and 20 ft. W. from junction of T-rd. W., in field, in root on N. side of 14-in. oak tree; copper nail and washer-----	891.78
Algonquin, 2.0 mi. SE. thence 1.3 mi. S. from, 1.0 mi. E. thence 2.1 mi. N. from East Dundee, at Dickinson School, near W $\frac{1}{4}$ cor. sec. 12, T. 42 N., R. 8 E., in SE. angle of junction of T-rd. E., at entrance to school-house, at SE. corner of concrete platform; chiseled square-----	866.06
East Dundee, 1.0 mi. E. of, near E $\frac{1}{4}$ cor. sec. 23, T. 42 N., R. 8 E., in NW. angle of crossroads, 4 ft. N. of fence corner, 1 ft. E. of fence; standard iron post with bronze cap stamped "1919 850" (recovered in 1922) -----	849.568
East Dundee, 1.0 mi. SE. of, in NW $\frac{1}{4}$ sec. 25, T. 42 N., R. 8 E., in NE. angle of crossroads, at Dundee Cemetery, on sidewalk 2 ft. W. of iron gate at cemetery entrance, on N. edge of concrete sidewalk; chiseled square (recovered in 1922) -----	834.43
East Dundee, 1.0 mi. SE. thence 0.9 mi. S. of, 3.5 mi. NE. of Elgin, at Browning School, near NE. cor. sec. 35, T. 42 N., R. 8 E., on NW. corner of concrete platform at entrance to schoolhouse; chiseled square-----	829.18
Elgin, 2.7 mi. NE. of, in SE $\frac{1}{4}$ sec. 35, T. 42 N., R. 8 E., on E. side of rd., at junction of rd. NW., in root on W. side of 12-in. wild-cherry tree; copper nail and washer-----	804.41
Elgin, at corner of Condon and Dundee Streets, at Seltz Shoe Factory now occupied by State Highway Department and B. G. Garment Co., in SW. corner of brick building, 2 ft. S. of W. entrance to ground floor, 1 ft. above ground; standard tablet set vertically and stamped "1919 809" (recovered by U. S. C. & G. S. in 1934) -----	809.332
Elgin, in NE. corner of intersection of Center and North Streets, on top of concrete curb; chiseled square (recovered in 1923) -----	730.77
Elgin, at SW. corner of crossing of River Street and Chicago, Milwaukee, St. Paul & Pacific R. R., on N. side of brick and stone building owned by Robert Beckwith, in E. end of stone doorstep; copper bolt (U. S. C. E. B. M. 87) -----	715.005

4. From point 0.9 mile northwest of Spaulding northwest along Chicago, Milwaukee, St. Paul & Pacific Railroad to Elgin (by S. L. Parker in 1919)

[Continued from Barrington quadrangle, line 7]

Elgin, 2.0 mi. SE. of C. M. St. P. & P. R. R. sta., at rd. crossing, near natural gas storage tank, 8 ft. N. of track 9, on E. side of N.-S. rd., on SW. corner of square concrete foundation of danger signal; chiseled square-----	720.48
Elgin, at SW. end of National Street bridge over Fox River, at W. end of stone abutment, on top course; chiseled square-----	715.32
5. From crossroads 1 mile east of East Dundee along roads northwest and west to road junction 1 mile north of Gilberts, thence south to Udina, thence east to Elgin (by S. R. Archer in 1922)	
East Dundee, at E. entrance to Evangelical Lutheran School, on N. end of stone doorsill; chiseled square-----	762.18

# 1390 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

West Dundee, at W. end of concrete bridge over Fox River, on S. side of bridge, at W. end of railing, in base on E. side of lamp pedestal; standard tablet stamped "89 A 1922" <sup>62</sup> -----	<i>Feet</i> 727.083
West Dundee, at E. entrance of city hall, on S. end of stone door-sill; chiseled square-----	738.41
West Dundee, in W. part of, 0.8 mi. S. of Carpentersville, in SW. angle of intersection of Dundee-Gilberts rd. and concrete highway, in root on NW. side of 24-in. maple tree; copper nail and washer-----	753.36
Carpentersville, at SW. corner of Main Street and Western Avenue, 1.2 mi. NW. of West Dundee, 30 ft. S. and 35 ft. W. from inter-section, in root on E. side of three-forked maple tree; copper nail and washer-----	804.93
Carpentersville, 0.9 mi. W. of, 0.2 mi. W. of S¼ cor. sec. 16, T. 42 N., R. 8 E., on NE. head wall of concrete culvert; chiseled square-----	867.19
Carpentersville, 1.4 mi. NW. of, 0.25 mi. N. of SE. cor. sec. 16, T. 42 N., R. 8 E., in SE. angle of crossroads, 10 ft. E. of fence corner; stand-ard iron post with bronze cap stamped "90 A 1922" <sup>63</sup> -----	916.465
Reference mark, 140 ft. S. of crossroads, on E. side of rd., in field, in root on NE. side of 24-in. oak tree; copper nail and washer----	913.36
Carpentersville, 1.8 mi. NW. of, 1.0 mi. N. and 2.7 mi. E. from Gilberts, 0.15 mi. E. of center of sec. 17, T. 42 N., R. 8 E., 40 ft. N. and 90 ft. W. from junction of rd. W., 13 ft. N. and 40 ft. W. from fence corner, in field, in root on SW. side of 12-in. oak tree; copper nail and washer-----	933.98
Gilberts, 1.0 mi. N. and 2.0 mi. E. from, near W¼ cor. sec. 17, T. 42 N., R. 8 E., 65 ft. S. of crossroads, on E. side of rd., in root on NE. side of northernmost of three oak trees standing in row, in front of residence; copper nail and washer-----	938.50
Gilberts, 1.0 mi. N. and 1.0 mi. E. from, near W¼ cor. sec. 18, T. 42 N., R. 8 E., 15 ft. E. of range line, on N. side of rd., at SW. cor. of orchard, inside fence, in root on S. side of 24-in. oak tree; copper nail and washer-----	927.45
Gilberts, 1.0 mi. N. of, near E¼ cor. sec. 14, T. 42 N., R. 7 E., 25 ft. W. of junction of T-rd. E., 2 ft. N. of fence corner; standard iron post with bronze cap stamped "91 A 1922" (recovered in 1923)-----	893.298
Reference mark, 25 ft. N. and 50 ft. E. from rd. junction, at western-most tree in row of willow trees along N. side of rd., in root on W. side of tree; copper nail and washer-----	892.50
Gilberts, in SE. part of, on N. side of E.-W. rd., in NW. angle of junction of street NW., 475 ft. E. of crossing of C. & N. W. Ry., 315 ft. E. of SE. end of Main Street, in SE. corner of yard of dwell-ing, in root on N. side of 24-in. boxelder tree; copper nail and washer-----	902.92
Gilberts, 0.4 mi. SW. of, in SE¼ sec. 23, T. 42 N., R. 7 E., on W. side of rd., 60 ft. N. of junction of rd. SW., in field, in root on E. side of 24-in. oak tree; copper nail and washer-----	919.53
Gilberts, 0.8 mi. S. and 0.3 mi. W. from, near center of NE¼ sec. 26, T. 42 N., R. 7 E., on E. side of rd., at fence corner, in root on SW. side of 24-in. oak tree; copper nail and washer-----	893.44

<sup>62</sup> In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "W 17 1934." elevation 726.363 ft.

<sup>63</sup> In 1940 this bench mark was reset at same location at an elevation 0.025 ft. lower than that originally determined. The figures given represent the new elevation.

Gilberts, 1.5 mi. S. and 0.5 mi. W. from, 1.8 mi. in air line NE. of Pingree Grove, at Tazewell School, near S $\frac{1}{4}$ cor. sec. 26, T. 42 N., R. 7 E., 35 ft. SE. thence 45 ft. S. from rd. junction, 30 ft. SE. and 15 ft. S. from NW. corner of schoolyard, in root on N. side of 24-in. oak tree; copper nail and washer-----	Feet 901.96
Gilberts, 1.8 mi. in air line S. of, 2.4 mi. N. of Udina, 0.2 mi. N. of W $\frac{1}{4}$ cor. sec. 36, T. 42 N., R. 7 E., 25 ft. S. and 40 ft. E. from rd. junction, 5 ft. E. of fence corner; standard iron post with bronze cap stamped "92 A 1922"-----	915.817
Reference mark, 20 ft. N. and 35 ft. W. from rd. junction, in root 5 in. underground, on W. side of 12-in. hickory tree; copper nail and washer-----	915.95
Udina, 1.7 mi. N. of, near NE. cor. fractional sec. 6, T. 41 N., R. 8 E., 220 ft. S. of right-angle turn in rd., on E. side of rd., in fence line, in root on NW. side of 8-in. cherry tree; copper nail and washer---	925.02
Udina, 1.0 mi. N. of, near SW. cor. fractional sec. 6, T. 41 N., R. 8 E., in NE. angle of crossroads, in SW. corner of yard of dwelling, in root on W. side of 10-in. boxelder tree; copper nail and washer----	943.93
Udina, 30 ft. S. and 85 ft. W. from junction of range-line rd. and Elgin-Pingree Grove rd., near SE. cor. sec. 12, T. 41 N., R. 7 E., 2 ft. S. of NE. corner of cemetery; standard iron post with bronze cap stamped "93 A 1922" (recovered in 1936) <sup>64</sup> -----	900.814
Reference mark, 50 ft. N. and 30 ft. W. from rd. junction, 20 ft. N. of SE. corner of schoolyard, in fence line along W. side of range-line rd. N., in root on SE. side of 36-in. maple tree; copper nail and washer (recovered in 1936)-----	900.58
Udina, 0.7 mi. SE. of, in NE $\frac{1}{4}$ sec. 18, T. 41 N., R. 8 E., 110 ft. SE. of junction of rd. SW., on SW. side of rd., at NE. corner of schoolyard, on concrete head wall of tile drain; chiseled square-----	899.39
Udina, 1.7 mi. SE. of, in SE $\frac{1}{4}$ sec. 17, T. 41 N., R. 8 E., 470 ft. NW. of junction of private rd. SW., 100 ft. NW. of dwelling standing on SW. side of rd., on top of SW. head wall of concrete culvert; chiseled square-----	853.43
Udina, 2.3 mi. SE. of, 2.6 mi. W. of Elgin, near center of SW $\frac{1}{4}$ sec. 16, T. 41 N., R. 8 E., in top of E. end of S. head wall of concrete culvert over Otter Creek; standard tablet stamped "94 A 1922"---	814.488
Elgin, 1.8 mi. W. of, 0.2 mi. S. of W $\frac{1}{4}$ cor. sec. 15, T. 41 N., R. 8 E., on S. side of highway, in fence corner, in root on NW. side of 6-in. elm tree; copper nail and washer-----	810.38
Elgin, 1.3 mi. W. of, near center of sec. 15, T. 41 N., R. 8 E., 20 ft. S. and 45 ft. E. from crossroads, in root on N. side of 12-in. boxelder tree; copper nail and washer-----	821.94
Elgin, 170 ft. W. of intersection of Highland and Hamilton Avenues, at E. point of triangular park on N. side of Larkin Avenue, at junction of Highland Avenue, 5 ft. W. of corner of curb, on W. side of storm sewer, on top of curb; chiseled square-----	807.05

<sup>64</sup> When this bench mark was recovered in 1936 it was found to have been disturbed and lowered 0.095 ft. The figures given represent the new elevation.

# 1392 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

## 6. From Udina southwest and south along roads to point 0.5 mile south and 0.5 mile west from Bowes (by S. R. Archer in 1923)

Udina, 0.9 mi. SW. of, near center of sec. 13, T. 41 N., R. 7 E., in SW. angle of junction of private rd. SE., in fence corner, in root on N. side of 24-in. oak tree; copper nail and washer-----	Feet 900.01
Udina, 1.6 mi. SW. of, 1.8 mi. E. of Plato Center, near SE. cor. sec. 14, T. 41 N., R. 7 E., 100 ft. W. of junction of private rd. S., on N. side of rd., at fence line, in root on S. side of 24-in. oak tree; copper nail and washer-----	888.91
Udina, 2.9 mi. in air line SW. of, 0.6 mi. N. of Bowes, 0.25 mi. SW. of center of sec. 24, T. 41 N., R. 7 E., 480 ft. SW. of crossing of Fitchie Creek, 190 ft. SW. of dwelling standing on SE. side of rd., on NW. side of rd., in root on W. side of 24-in. oak tree; copper nail and washer-----	854.63
Bowes, 40 ft. N. and 45 ft. W. from crossing of Illinois Central R. R., 20 ft. S. and 45 ft. W. from junction of rd. SE., 3 ft. W. of right-of-way corner at NW. corner of crossing, in concrete post; standard tablet stamped "1 A 1923"-----	858.511
Reference mark, in NE. angle of junction of rd. SE., in front of store, 14 ft. SW. of corner of porch, in root on W. side of corner tree of row of maple trees; copper nail and washer-----	860.04
Bowes, 0.5 mi. NW. of, in NE $\frac{1}{4}$ sec. 26, T. 41 N., R. 7 E., 375 ft. S. of rd. junction, on W. side of N.-S. rd., inside fence, in root on NE. side of 12-in. hickory tree; copper nail and washer-----	869.27

[Continued in Geneva quadrangle, line 3]

## 7. From point 1.8 miles south and 2.6 miles west from Plato Center generally north along road to road junction 0.4 mile north of Henpeck, thence east and south by way of Freeman to road junction 1 mile north of Gilberts (by R. G. Stevenson in 1923)

[Connects with line 3 in Geneva quadrangle]

Plato Center, 1.6 mi. S. and 2.7 mi. W. from, 0.1 mi. SW. of center of sec. 30, T. 41 N., R. 7 E., on NE. side of rd., 200 ft. E. of farmhouse, on top of small exposed limestone ledge; chiseled square-----	1,000.23
Plato Center, 0.5 mi. N. and 2.7 mi. W. from, 0.1 mi. W. of center of sec. 18, T. 41 N., R. 7 E., in NW. angle of crossroads, inside wire fence, in concrete post; standard tablet stamped "1 RGS 1923"-----	1,028.295
Reference mark, 80 ft. S. of crossroads, on W. side of rd., on small limestone boulder; chiseled square-----	1,033.45
Plato Center, 1.5 mi. N. and 2.5 mi. W. from, 0.5 mi. S. and 0.7 mi. W. from North Plato, 0.15 mi. E. of center of sec. 7, T. 41 N., R. 7 E., in NE. angle of junction of T-rd. N., in root of 24-in. tree; copper nail and washer-----	992.09
North Plato, 1.3 mi. N. and 0.8 mi. W. from, 3.4 mi. S. of Henpeck, near center of sec. 36, T. 42 N., R. 6 E., in NW. angle of junction of T-rd. N., 175 ft. W. of dwelling of Charles Brooks, 2 ft. NW. of corner fence post, inside fence, in concrete post; standard tablet stamped "2 RGS 1923"-----	1,016.062
Reference mark, 90 ft. E. of rd. junction, 75 ft. SW. of dwelling, in root of 16-in. maple tree; copper nail and washer-----	1,014.61
Henpeck, 1.6 mi. S. of, 0.2 mi. S. of center of sec. 24, T. 42 N., R. 6 E., 150 ft. NW. of crossroads, 30 ft. W. of wire fence, in root of 12-in. oak tree; copper nail and washer (recovered in 1936)-----	992.09

Henpeck, 200 ft. SE. of schoolhouse, 0.1 mi. S. of N $\frac{1}{4}$ cor. sec. 13, T. 42 N., R. 6 E., 100 ft. N. of right-angle turn in concrete highway, 20 ft. E. of graveled rd. N., 3 ft. N. and 3 ft. E. from fence corner, in concrete post; standard tablet stamped "3 RGS 1923"-----	<i>Feet</i> 949.177
Reference mark, 80 ft. S. of schoolhouse, on N. concrete head wall of culvert; chiseled square-----	950.31
Henpeck, 0.5 mi. N. and 2.0 mi. E. from, near center of sec. 8, T. 42 N., R. 7 E., 200 ft. E. of right-angle turn in rd., 20 ft. E. of fence corner, in root of 10-in. oak tree; copper nail and washer-----	892.38
Henpeck, 2.5 mi. E. of, 2.3 mi. W. of Freeman, near NE. cor. sec. 17, T. 42 N., R. 7 E., 30 ft. SW. of crossroads, inside wire fence, in concrete post; standard tablet stamped "4 RGS 1923"-----	908.385
Reference mark, 200 ft. NE. of tablet, in NE. angle of crossroads, in root of 20-in. oak tree; copper nail and washer-----	903.20
Freeman, 1.6 mi. W. from, 0.2 mi. E. of S $\frac{1}{4}$ cor. sec. 9, T. 42 N., R. 7 E., 200 ft. SE. of abandoned schoolhouse, 15 ft. N. of rd., 1 ft. S. of wire fence, in root of 10-in oak tree; copper nail and washer-----	921.84

8. From Henpeck along roads northwest and north to point 0.5 mile south and 2.2 miles east from Union (by R. G. Stevenson in 1923)

No bench marks were established in the first 1.6 miles of this line.

[Jogs into Genoa quadrangle, line 2]

Henpeck, 1.5 mi. N. of, 1.5 mi. S. and 2.9 mi. W. from Huntley, near center of sec. 1, T. 42 N., R. 6 E., 300 ft. E. of junction of T-rd. W., on concrete base of corner fence post; chiseled square-----	911.19
Huntley, 0.5 mi. S. and 3.5 mi. W. from, 0.25 mi. W. of E $\frac{1}{4}$ cor. sec. 35, T. 43 N., R. 6 E., 70 ft. NW. of junction of T-rd. N., on E. end of concrete platform of abandoned schoolhouse; chiseled square-----	914.30
Huntley, 0.5 mi. N. and 3.5 mi. W. from, 0.25 mi. W. of E $\frac{1}{4}$ cor. sec. 26, T. 43 N., R. 6 E., 85 ft. S. and 25 ft. E. from crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 15 W 1921"---	915.985
Reference mark, 90 ft. N. of tablet, in root of 15-in. oak tree; copper nail and washer-----	911.79
Huntley, 1.7 mi. N. and 3.5 mi. W. from, near center of NE $\frac{1}{4}$ sec. 23, T. 43 N., R. 6 E., 30 ft. E. of crossroads, on W. end of N. head wall of concrete culvert; chiseled square-----	894.09
Huntley, 2.5 mi. N. and 3.5 mi. W. from, 0.25 mi. E. of center of sec. 14, T. 43 N., R. 6 E., on E. side of rd., 80 ft. S. of farmhouse, 30 ft. N. of junction of T-rd. W., in root of 20-in. maple tree; copper nail and washer-----	881.52
Huntley, 3.5 mi. N. and 3.3 mi. W. from, 1.0 mi. S. and 2.7 mi. E. from Union, near W $\frac{1}{4}$ cor. sec. 12, T. 43 N., R. 6 E., at iron bridge over South Branch Kishwaukee River, on N. end of E. wing of concrete retaining wall; chiseled square-----	843.92

[Continued in Genoa quadrangle, line 3]

9. From point 1 mile north and 2.2 miles east from Union generally east along roads to point 0.3 mile north and 3 miles east from city of Crystal Lake (by R. G. Stevenson in 1923)

[Continued from Genoa quadrangle, line 3]

Union, 1.0 mi. N. and 3.7 mi. E. from, 5.5 mi. N. and 2.3 mi. W. from Huntley, near E $\frac{1}{4}$ cor. sec. 36, T. 44 N., R. 6 E., 40 ft. S. of junction of range-line rd. N., in root of 32-in. maple tree; copper nail and washer-----	856.34
--	--------

# 1394 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

[Jogs into McHenry quadrangle, line 2]

Huntley, 5.0 mi. N. and 2.7 mi. E. from, 3.0 mi. W. of Chicago & North Western Ry. sta. at Crystal Lake, 0.4 mi. NW. of W. shore of Crystal Lake, near SE. cor. sec. 35, T. 44 N., R. 7 E., in NW. angle of rd. junction, inside wire fence, in concrete post; standard tablet stamped "6 RGS 1923"-----	Feet 902.943
--	-----------------

[Jogs into McHenry quadrangle, line 3]

Crystal Lake, 40 ft. NE. of intersection of Grant and Railroad Streets, in SW. corner of station park of C. & N. W. Ry., in concrete post; standard tablet stamped "7 RGS 1923" (recovered by U. S. C. & G. S. in 1934)-----	928.135
--	---------

Reference mark, 150 ft. W. of C. & N. W. Ry. sta., at W. end of brick sidewalk, on S. side of base of iron lamp post; top of bolt-----	929.04
--	--------

Crystal Lake, 0.3 mi. N. and 1.0 mi. E. from C. & N. W. Ry. sta., near E $\frac{1}{4}$ cor. sec. 33, T. 44 N., R. 8 E., 50 ft. SW. of crossroads, in root of 18-in. oak tree; copper nail and washer-----	898.09
---	--------

Crystal Lake, 0.3 mi. N. and 2.1 mi. E. from, 0.1 mi. E. of W $\frac{1}{4}$ cor. sec. 35, T. 44 N., R. 8 E., 600 ft. E. of crossroads, 175 ft. N. of farmhouse, on N. side of rd., inside wire fence, in root of 36-in. poplar tree; copper nail and washer-----	843.43
--	--------

10. From crossroads 0.5 mile north and 3.5 miles west from Huntley generally east along roads by way of Huntley to road junction 1.7 miles southeast of Algonquin (by R. G. Stevenson in 1923)

Huntley, 1.0 mi. N. and 2.5 mi. W. from, 0.2 mi. W. of SE. cor. sec. 24, T. 43 N., R. 6 E., on NE. side of rd., 100 ft NW. of junction of rd. W., 40 ft. N. of wire fence, in root of 18-in. hickory tree; copper nail and washer-----	906.51
--	--------

Huntley, 1.3 mi. W. of, near NE. cor. sec. 31, T. 43 N., R. 7 E., 90 ft. SW. of junction of T-rd. N., inside wire fence, in root of 30-in. oak tree; copper nail and washer-----	869.62
--	--------

Huntley, 180 ft. SE. of Chicago & North Western Ry. sta., 100 ft. NW. of NW. corner of milk canning factory, 30 ft. E. of main track, in concrete post; standard tablet stamped "8 RGS 1923"-----	888.863
---	---------

Huntley, 1.0 mi. N. of, 0.25 mi. E. of NW. cor. sec. 28, T. 43 N., R. 7 E., 400 ft. S. of rd. junction, on N. end of W. head wall of concrete culvert; chiseled square-----	881.86
---	--------

Huntley, 1.0 mi. N. and 1.3 mi. E. from, near S $\frac{1}{4}$ cor. sec. 22, T. 43 N., R. 7 E., 50 ft. NE. of junction of T-rd. N., on large boulder; chiseled square-----	886.14
---	--------

Huntley, 1.0 mi. N. and 2.3 mi. E. from, near N $\frac{1}{4}$ cor. sec. 26, T. 43 N., R. 7 E., 50 ft. SW. of junction of T-rd. W., in NE. corner of field, in concrete post; standard tablet stamped "9 RGS 1923"-----	883.314
--	---------

Reference mark, 200 ft. S. of tablet, on N. end of W. head wall of concrete culvert; chiseled square-----	883.85
---	--------

Huntley, 1.5 mi. N. and 3.0 mi. E. from, 0.25 mi. E. of W $\frac{1}{4}$ cor. sec. 24, T. 43 N., R. 7 E., 20 ft. NE. of junction of T-rd. N., in root of 12-in. tree; copper nail and washer-----	895.31
--	--------

Huntley, 1.5 mi. N. and 4.0 mi. E. from, 4.4 mi. NW. of Algonquin, 0.25 mi. E. of W $\frac{1}{4}$ cor. sec. 19, T. 43 N., R. 8 E., 20 ft. NE. of junction of T-rd. N., 100 ft. W. of farmhouse, on concrete reinforcement of corner fence post; chiseled square-----	893.31
--	--------

Algonquin, 3.7 mi. NW. of, near E $\frac{1}{4}$ cor. sec. 19, T. 43 N., R. 8 E., 40 ft. W. of junction of T-rd. N., 100 ft. N. of large barn, on W. end of N. coping of concrete bridge over small brook; chiseled square--	<i>Feet</i> 831.58
Algonquin, 2.5 mi. NW. of, 0.25 mi. W. of center of sec. 29, T. 43 N., R. 8 E., 20 ft. S. of junction of T-rd. N., 120 ft. SW. of farmhouse, 2 ft. N. of wire fence, in concrete post; standard tablet stamped "10 RGS 1923"-----	902.774
Reference mark, 80 ft. N. of tablet, on W. side of N.-S. rd., in root of small tree; copper nail and washer-----	904.60
Algonquin, 1.2 mi. NW. of, 0.15 mi. NW. of center of sec. 28, T. 43 N., R. 8 E., 50 ft. NW. of rd. junction, 5 ft. N. of E.-W. rd., on E. head wall of small concrete culvert; chiseled square-----	789.06
Algonquin, at concrete highway bridge over Fox River, in NW. end of NE. concrete retaining wall, 27 ft. NE. of center line of highway and about 1 ft. higher than surface of pavement; standard tablet <sup>55</sup> (recovered by U. S. C. & G. S. in 1934)-----	741.294
Algonquin, at highway bridge over Fox River, 1 ft. N. of NE. corner of board walk, on retaining wall at left bank of river; chiseled square (Rivers and Lakes Comm. B. M.)-----	739.27
Algonquin, 0.8 mi. SE. of, near E $\frac{1}{4}$ cor. sec. 34, T. 43 N., R. 8 E., 100 ft. S. of junction of rd. S., on W. side of rd., on large limestone boulder; chiseled square-----	858.74
11. From intersection of Condon and Dundee Streets in Elgin to post office (by H. P. Jones in 1923; leveled twice)	
Elgin, in E. side of post office, 5 ft. S. of NE. corner, in top of granite block, 2.5 ft. above ground; standard tablet stamped "1 HPJ 1923" (recovered by U. S. C. & G. S. in 1934)-----	744.208
12. From Udina northwest along highway to Pingree Grove (by E. W. Gouchenour in 1936; leveled twice)	
Udina, 1.1 mi. NW. of, near W $\frac{1}{4}$ cor. sec. 12, T. 41 N., R. 7 E., 45 ft. SE. of intersection of highway and N.-S. section line, on NE. head wall of concrete culvert; chiseled square-----	908.87
Udina, 2.0 mi. NW. of, 0.6 mi. SE. of Pingree Grove, 0.1 mi. SW. of center of sec. 2, T. 41 N., R. 7 E., about 500 ft. SE. of S. limits of village, on NE. head wall of concrete culvert; chiseled square-----	911.10
U. S. C. & G. S. T. B. M. 4-----	915.881
13. From crossroads 1.6 miles south of Henpeck southeast along highway and railroad to point on Chicago, Milwaukee, St. Paul & Pacific Railroad 2.5 miles northwest of Pingree Grove (by E. W. Gouchenour in 1936; leveled twice)	
Henpeck, 1.6 mi. S. thence 1.0 mi. SE. from, about 3 mi. NW. of Pingree Grove, 0.2 mi. W. of center of sec. 30, T. 42 N., R. 7 E., 100 ft. N. and 150 ft. W. from junction of U. S. Highway 20 and State Highway 5, on N. head wall of concrete culvert; chiseled square-----	935.78
U. S. C. & G. S. T. B. M. 3-----	932.226

<sup>55</sup> This tablet set in 1933 replaces the one stamped "11 RGS 1923" originally established in the retaining wall of the iron bridge. The elevation of the new mark for which figures are given is 7.916 ft. higher than the old one.

# ELIZABETH QUADRANGLE

[Latitude 42°15'–42°30'; longitude 90°00'–90°15']

## JO DAVIESS COUNTY

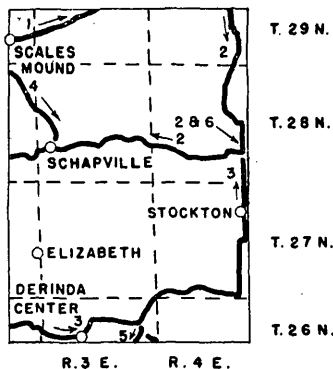


FIGURE 233.—Lines of leveling in Elizabeth quadrangle.

1. From Scales Mound northeast along Illinois Central Railroad 4.8 miles (first 3.1 miles by F. H. West in 1906; remainder of line by Henry Bücher in 1908)

[Continued from Galena quadrangle, line 1]

Scales Mound, 3.1 mi. NE. of, 0.8 mi. SW. of Laws Siding, near S $\frac{1}{4}$  cor. sec. 20, T. 29 N., R. 3 E., in SE. angle of rd. crossing, 20 paces S. of S. rail, 3 paces E. of rd.; standard iron post with bronze cap stamped "987"-----

Feet  
985.856

[Continued in Darlington quadrangle, line 1]

2. From point 0.3 mile north and 1.5 miles west from Warren along roads generally south to road junction 3 miles north and 0.3 mile east from Stockton, thence west to point 3 miles west of Schapville (by Henry Bücher in 1908)

[Continued from Darlington quadrangle, line 1]

Warren, 2.0 mi. S. and 1.1 mi. W. from, 0.2 mi. W. of E $\frac{1}{4}$  cor. sec. 35, T. 29 N., R. 4 E., in SW. angle of junction of rd. W., in field, 2 ft. S. and 2 ft. W. from fence corner; standard iron post with bronze cap stamped "993" (recovered in 1919)-----

992.668

Warren, 5.5 mi. S. and 1.2 mi. W. from, 4.5 mi. in air line N. of Stockton, at Robinson School, 0.2 mi. E. of S $\frac{1}{4}$  cor. sec. 14, T. 28 N., R. 4 E., in NW. angle of rd. junction, in field, 11 ft. N. and 8 ft. W. from fence corner; standard iron post with bronze cap stamped "868" (recovered in 1935)-----

867.080

Stockton, 2.8 mi. N. and 2.5 mi. W. from, at crossroads, formerly Rush post office, in SW $\frac{1}{4}$  sec. 28, T. 28 N., R. 4 E., in NE. angle of crossroads, 4 ft. N. and 4 ft. E. from fence corner, 2 ft. W. of small drain; standard iron post with bronze cap stamped "996"-----

995.370

Stockton, 3.4 mi. N. and 4.8 mi. W. from, 5.8 mi. E. of Schapville, about 0.1 mi. S. of N. cor. secs. 25 and 30, T. 28 N., Rs. 3 and 4 E., on N. side of rd, opposite T-rd. S., in SW. corner of field, 4 ft. N. and 4 ft. E. from fence corner; standard iron post with bronze cap stamped "932"-----	Feet 931.000
Schapville, 2.9 mi. E. of, 0.1 mi. NE. of S $\frac{1}{4}$ cor. sec. 22, T. 28 N., R. 3 E., 60 ft. W. of stone arch culvert, on N. side of rd., just E. of gate to lane N. to residence of L. Schultz, in field, 2 ft. N. of fence; standard iron post with bronze cap stamped "766"-----	764.960
Schapville, in NW. angle of rd. junction, at Zion Presbyterian Church (German), 14 ft. N. of SE. corner of church, in E. wall; aluminum tablet stamped "859"-----	858.568
Schapville, 2.8 mi. W. of, at Mount Morley School, in SE $\frac{1}{4}$ sec. 26, T. 28 N., R. 2 E., in SW. angle of rd. junction, 119 ft. S.41°W. from schoolhouse, 25 ft. E. of fence corner; standard iron post with bronze cap stamped "Prim Trav Sta No 18 1906 1043"-----	1,042.253
[Continued in Galena quadrangle, line 2]	
3. From point 2 miles east of Hanover along roads generally east and northeast to road junction 4.5 miles south of Stockton, thence north to road junction 3 miles north and 0.3 mile east from Stockton (by Henry Bücher in 1908)	
[Continued from Galena quadrangle, line 3]	
Hanover, 2.9 mi. E. of, 3.4 mi. NW. of Derinda Center, at Pleasant Hill School, 0.2 mi. N. of quarter corner between secs. 11 and 12, T. 26 N., R. 2 E., at junction of rd. N., on W. side of rd., 43 ft. S. of NE. fence corner, 127 ft. N. of white oak tree at SE. corner of yard, 11 ft. NW. of large white oak tree; standard iron post with bronze cap stamped "Prim Trav Sta No 19 1906 965"-----	964.095
Derinda Center, near SE. cor. sec. 8, T. 26 N., R. 3 E., in NW. angle of crossroads, at SE. corner of schoolhouse, in E. wall of foundation, 6 ft. N. of corner; aluminum tablet stamped "809"-----	808.666
Derinda Center, 0.6 mi. N. and 3.1 mi. E. from, 1.3 mi. NE. of Massbach, 4.5 mi. S. thence 6.6 mi. SW. from Stockton, in NW $\frac{1}{4}$ sec. 12, T. 26 N., R. 3 E., on W. side of rd., at junction, in field, 4 ft. NW. of fence corner; standard iron post with bronze cap stamped "990" (recovered in 1935)-----	989.458
Stockton, 4.5 mi. S. thence 3.1 mi. W. from, 1.7 mi. N. and 0.9 mi. W. from Elmvilleville, in SE $\frac{1}{4}$ sec. 32, T. 27 N., R. 4 E., 150 ft. E. of iron bridge over North Fork of Plum River, on S. side of rd., in field, 4 ft. S. of fence, 4 ft. E. of fence S.; standard iron post with bronze cap stamped "781"-----	780.510
Stockton, 4.5 mi. S. of, 1.5 mi. N. and 2.0 mi. E. from Elmvilleville, in SW $\frac{1}{4}$ sec. 35, T. 27 N., R. 4 E., at SW. corner of Y-rd. junction, in field, 4 ft. W. of N-S. fence, 5 ft. S. of E-W. fence; standard iron post with bronze cap stamped "862"-----	861.864
Stockton, 0.5 mi. S. and 0.8 mi. E. from, near NW. cor. sec. 13, T. 27 N., R. 4 E., in SE. angle of junction of T-rd. E., in field, 3 ft. S. and 3 ft. E. from fence corner; standard iron post with bronze cap stamped "1018"-----	1,017.370
Stockton, 2.0 mi. N. and 0.3 mi. E. from, near W $\frac{1}{4}$ cor. sec. 36, T. 28 N., R. 4 E., in NE. angle of crossroads, in field, 5 ft. E. of N-S. fence, 3 ft. N. of E-W. fence; standard iron post with bronze cap stamped "973" (recovered in 1935)-----	972.610

# 1398 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

4. From point 1.7 miles south and 0.2 mile east from Scales Mound southeast along road to Schapville (by Henry Bücher in 1908)

[Continued from Galena quadrangle, line 4]

Scales Mound, 1.7 mi. S. thence 0.2 mi. E. from, 5.0 mi. NW. of Schapville, 0.2 mi. E. of center of sec. 2, T. 28 N., R. 2 E., 400 ft. E. of rd. junction, near cheese factory, at iron bridge over Mill Creek, at S. side of W. abutment, in top of wall, W. of E. edge; aluminum tablet stamped "833"-----	Feet 832.423
--	-----------------

Schapville, 1.5 mi. N. of, in SE¼ sec. 18, T. 28 N., R. 3 E., 0.2 mi. NW. of rd. junction, at N. abutment of iron bridge over Mill Creek, in W. face, 3.7 ft. below top of wall; aluminum tablet stamped "731"-----	730.093
---	---------

5. From road junction 0.6 mile north and 3.1 miles east from Derinda Center south and southwest along roads to point 0.2 mile northeast of Massbach (by S. R. Archer in 1935)

Derinda Center, 0.3 mi. S. and 3.0 mi. E. from, 0.4 mi. NE. of Massbach, in NE¼ sec. 14, T. 26 N., R. 3 E., on E. side of rd., at entrance to church, on NW. corner of concrete porch floor, at foot of W. end of N. iron railing; chiseled square-----	966.58
---	--------

[Continued in Savanna quadrangle, line 9]

6. From road junction 4.5 miles north of Stockton along roads east 0.3 mile, thence south 2.5 miles, thence east 0.1 mile (by S. R. Archer in 1935)

Stockton, 3.5 mi. N. and 0.3 mi. E. from, near SW. cor. sec. 24, T. 28 N., R. 4 E., 65 ft. N. of crossroads, on S. end of E. head wall of concrete culvert; chiseled square-----	833.71
--	--------

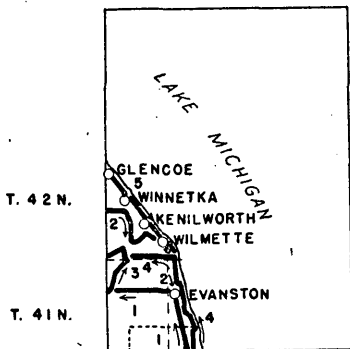
Stockton, 3.0 mi. N. and 0.3 mi. E. from, 330 ft. N. of W¼ cor. sec. 25, T. 28 N., R. 4 E., 330 ft. N. of junction of T-rd. W., on N. end of E. head wall of culvert; chiseled square-----	927.49
--	--------

[Continued in Lena quadrangle, line 7]

# EVANSTON QUADRANGLE

[Latitude 42°00'–42°15'; longitude 87°30'–87°45']

## COOK COUNTY



R.13 E. R.14 E.

FIGURE 234.—Lines of leveling in Evanston quadrangle.

1. From Chicago north along streets to Evanston, thence west to Niles Center (by E. S. Smith in 1897)

[Continued from Chicago quadrangle, line 1]

Evanston, at City Hall, at N. side of E. entrance, in inner face of stonework, about 18 in. above doorsill; standard tablet stamped "Chgo 601"<sup>66</sup>

Feet  
601.546

[Continued in Highwood quadrangle, line 1]

2. From point in Winnetka east along Willow road about 1 mile, thence along streets and roads generally southeast to Evanston (by E. S. Smith in 1897)

[Continued from Highwood quadrangle, line 1]

Winnetka, 30 ft. N. of NE. corner of old town hall and public library, just N. of schoolhouse; standard iron post with bronze cap stamped "Chgo 651"<sup>67</sup>

650.459

3. From Niles Center northeast along Carpenter and Gross Point roads to Evanston, thence west along Glenview road to point 2.9 miles east of Glenview (by S. R. Archer in 1925)

[A jog from Highwood quadrangle, line 8]

Niles Center, 0.9 mi. NE. of St. Peter's Church, near NE. cor. sec. 21, T. 41 N., R. 13 E., 110 ft. S. of intersection of Dempster Street, on W. side of Carpenter rd., in root on NE. side of 24-in. maple tree; copper nail and washer

626.13

<sup>66</sup> In 1936 this bench mark was tied to U. S. C. & G. S. monel-metal rivet designated "RV 18," elevation 617.850 ft.

<sup>67</sup> In 1926 this bench mark was moved to a point at the southeast corner of Cherry and Ridge Avenues, 6 ft. southeast of inside angle of sidewalk. The figures given represent the new elevation.

# 1400 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Niles Center, 1.5 mi. NE. of, 3.0 mi. W. of Evanston, 0.3 mi. W. of center of sec. 15, T. 41 N., R. 13 E., 35 ft. S. and 45 ft. E. from intersection of Carpenter rd. and Church Street, 2 ft. N. of N. edge of concrete sidewalk, 27 ft. E. of corner of sidewalk, in concrete post; standard tablet stamped "Prim Trav Sta No 56 K 1924"-----	Feet 629.438
Niles Center, 2.0 mi. NE. of, about 3 mi. W. of Evanston, 0.2 mi. W. of N¼ cor. sec. 15, T. 41 N., R. 13 E., in SE. corner of crossroads, in root on NW. side of 24-in. maple tree, corner tree; copper nail and washer----	636.00
Evanston, near W. limits of, 0.2 mi. SW. of NE. cor. sec. 10, T. 41 N., R. 13 E., 100 ft. S. and 35 ft. W. from intersection of Carpenter rd. and Harrison Street, in NE. corner of Memorial Park Cemetery, in concrete post; standard tablet stamped "Prim Trav Sta No 57 K 1924"----	637.915
Evanston, near N. cor. secs. 10 and 11, T. 41 N., R. 13 E., 18 ft. N. and 20 ft. W. from intersection of Central Street and Ridge (Carpenter) rd., in root 6 in. underground on NE. side of 24-in. willow tree; copper nail and washer-----	637.44
Evanston, near NW. corner of, 3.9 mi. E. of Glenview, 0.25 mi. S. of W¼ cor. sec. 33, T. 42 N., R. 13 E., 130 ft. E. of rd. N., on N. side of rd., in root on W. side of 24-in. elm tree; copper nail and washer-----	636.55
[Continued in Highwood quadrangle, line 8]	
4. From Chicago north along streets to Evanston, thence west along Central Street to Carpenter road (by S. R. Archer in 1925)	
[Continued from Chicago quadrangle, line 7]	
Chicago, in NW. angle of intersection of Greenview and Albion Avenues, in SE. corner of schoolyard, in concrete post; standard tablet stamped "Prim Trav Sta No 87 K 1924" (reported destroyed and replaced by chiseled mark; see following description)-----	589.939
Chicago, in NE. angle of intersection of Greenview and Albion Avenues, on Bedford stone corner of building, 3.2 ft. above water table; chiseled mark-----	592.94
Chicago, 40 ft. N. and 20 ft. W. from intersection of Pratt and Ashland Boulevards, 20 ft. N. of corner of curb, on stone curb; chiseled square-----	589.55
Chicago, at NE. corner of intersection of Ashland Boulevard and Sherwin Avenue, 13.6 ft. S. of N. line of Sherwin Avenue, 7 ft. E. of E. line of Ashland Boulevard, in concrete monument; copper bolt (Chicago City B. M. 198)-----	589.703
Chicago, in NW. corner of intersection of Sheridan rd. and Fargo Avenue, on S. side of storm sewer opening, on curb; chiseled square----	589.74
Chicago, in NW. corner of intersection of Sheridan rd. and Juneway Terrace, 13.5 ft. S. of N. line of Juneway Terrace, 33.5 ft. W. of W. line of Sheridan rd., between sidewalk and curb, in concrete monument; copper bolt (Chicago City B. M. 240)-----	589.398
Chicago, at NE. corner of intersection of Juneway Terrace and Chicago Avenue (Clark Street), at SW. corner of Juneway Garage, 2 ft. S. of storm sewer opening, on curb; chiseled square-----	603.34
Evanston, at South Boulevard subway under North Shore electric line, at E. end of subway at Chicago Avenue, on E. end of concrete base of center steel columns; chiseled square-----	606.33
Evanston, in SE. part of city, 30 ft. S. and 30 ft. W. from intersection of Sheridan rd. and South Boulevard, in concrete post; standard tablet stamped "Prim Trav Sta No 85 K 1924"-----	591.587

Reference mark, 590 ft. E. of tablet, at SW. corner of intersection of Sheridan rd. and Sheridan Square, 8 ft. NW. of sidewalk W., 15 ft. SE. of sidewalk N., on concrete curb; chiseled square-----	Feet 589.34
Evanston, at SE. corner of intersection of Main Street and Hinman Avenue, on corner of curb; chiseled square-----	595.89
Evanston, at NE. corner of intersection of Chicago Avenue and Grove Street, opposite (N. of) NW. corner of Raymond Park, on corner of curb; chiseled square-----	600.66
Evanston, at NE. corner of intersection of Sherman Avenue and Noyes Street, 23 ft. N. of corner of curb, on curb; chiseled square--	598.26
Evanston, at SW. corner of intersection of Sherman Avenue and Central Street, 14 ft. S. of corner of curb, on curb; chiseled square----	601.69
Evanston, 30 ft. S. and 23 ft. E. from intersection of Central Street and Asbury Avenue, in W. corner of sidewalks E., W., and S., in concrete post; standard tablet stamped "Prim Trav Sta No 58 K 1924"---	602.160
Evanston, at Central Street subway under elevated R. R., just E. of intersection of Central Street and West Railroad Avenue, on W. end of concrete base of center steel columns; chiseled square-----	604.69
Evanston, at NE. corner of intersection of Central Street and Bennett Avenue, on corner of curb; chiseled square-----	605.90
Evanston, 50 ft. S. and 40 ft. W. from intersection of Central Street and Central Park Avenue, in root on N. side of 12-in. elm tree; copper nail and washer-----	608.51

5. From Glencoe southeast along roads and streets to Evanston  
(by S. R. Archer in 1925)

[Continued from Highwood quadrangle, line 14]

Glencoe, 15 ft. S. and 18 ft. W. from intersection of Palos and Harbor Streets, on manhole, directly over storm sewer opening; top of rim between two file marks-----	663.96
Glencoe, at SE. corner of intersection of Green Bay rd. and Scott Avenue, in SE. corner of triangular park, in root on NE. side of 36-in. oak tree; copper nail and washer-----	658.21
Winnetka, 35 ft. N. and 55 ft. E. from Chicago, North Shore & Milwaukee electric R. R. crossing of Tower rd. (North Avenue), in NW. corner of intersection of Green Bay and Tower rds., 5 ft. N. of walk along N. side of Tower rd., in root on NE. side of 15-in. oak tree; copper nail and washer-----	659.20
Winnetka, in NE. part of city, in SE. corner of intersection of Sheridan and Tower rds., on S. side of street and walk leading to Theodore Dick monument, in SE. corner of sidewalk, in concrete post; standard tablet stamped "Prim Trav Sta No 82 K 1924" (recovered by U. S. C. & G. S. in 1934)-----	657.007
Winnetka, 20 ft. N. and 20 ft. E. from intersection of Sheridan rd. and Ash Street, on N. side of driveway E., in root on SW. side of 15-in. maple tree; copper nail and washer-----	618.44
Winnetka, 10 ft. N. and 23 ft. E. from intersection of Sheridan rd. and Fuller Lane, in root on SW. side of 12-in. oak tree; copper nail and washer-----	611.83
Winnetka, 26 ft. N. and 32 ft. W. from intersection of Sheridan rd. and Winnetka Avenue, on N. side of walk W., 5 ft. W. of inside corner of walks, in concrete post; standard tablet stamped "Prim Trav Sta No 83 K 1924" (recovered by U. S. C. & G. S. in 1934)-----	610.858

# 1402 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Kenilworth, at Kenilworth-Wilmette city limits, 10 ft. N. and 20 ft. E. from intersection of Sheridan rd. and Tenth Street (Wilmette), 5 ft. S. of E. stone column at city limits, on E. side of Sheridan rd., on N. side of storm sewer opening, on concrete curb; chiseled square	<i>Feet</i> <b>609.83</b>
Wilmette, at intersection of Sheridan rd. and Michigan Avenue, on E. side of Sheridan rd., in line with center of rd. S., on top of W. side of concrete base of electric light pedestal; chiseled square <sup>68</sup> -----	<b>608.38</b>
Wilmette, in S. corner of intersection of Sheridan rd. and Lake Avenue, in corner on E. side of intersection of sidewalks, in concrete post; standard tablet stamped "Prim Trav Sta No 84 K 1924"-----	<b>605.837</b>
Wilmette, at intersection of Maple Avenue and Third Street South, 75 ft. W. of crossing of Chicago, North Shore & Milwaukee electric line and Maple Avenue, on N. side of Maple Avenue, in line with center of Third Street SE., on SE corner of concrete base of electric light pedestal; chiseled square-----	<b>604.76</b>

---

<sup>68</sup> In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "Wilmette 1934," elevation 611.941 ft.

# FORRESTON QUADRANGLE

[Latitude 42°00'–42°15'; longitude 89°30'–89°45']

CARROLL, OGLE, AND STEPHENSON COUNTIES

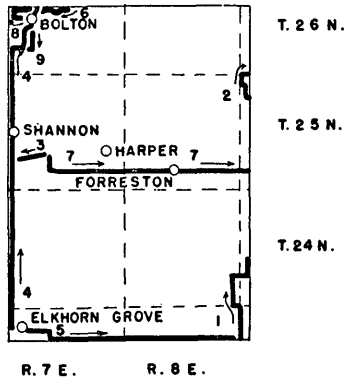


FIGURE 235.—Lines of leveling in Forreston quadrangle.

1. From point 0.8 mile north and 3.5 miles east from Polo along roads north and east to point 1 mile north and 3.5 miles west from Mount Morris (by E. O. Brooks in 1921)

[Continued from Woosung quadrangle, line 1]

Polo, 3.5 mi. E. thence 1.0 mi. N. from, 3.0 mi. S. and 4.0 mi. W. from Mount Morris, near SE. cor. oversize sec. 1, T. 23 N., R. 8 E., 30 ft. N. and 20 ft. W. from junction of T-rd. W., 12 ft. N. of fence corner, 4 ft. E. of fence N.; standard iron post with bronze cap stamped "Prim Trav Sta No 35 1911 21 EB 1921 865" (recovered in 1930)---	Feet 864.500
Reference mark, 10.2 ft. NW. of iron post, 20 ft. N. of fence corner, 3.6 in. E. of fence N., 6 in. underground; cap on 1½-in. iron pipe (recovered in 1930)-----	863.64
Mount Morris, 1.5 mi. S. and 4.0 mi. W. from, near N. cor. oversize secs. 1 and 6, T. 23 N., Rs. 8 and 9 E., at junction of E.-W. rd., 8 ft. S. and 2 ft. E. from fence corner, in root of 36-in. maple tree; copper nail and washer-----	862.07
Mount Morris, 4.2 mi. W. thence 1.1 mi. S. from, about 0.25 mi. SW. of E¼ cor. sec. 36, T. 24 N., R. 8 E., at steel bridge over Hammer Creek, 1 ft. S. of SE. corner, on stone abutment; chiseled square---	830.10
Mount Morris, 4.2 mi. W. of, 0.2 mi. W. of E¼ cor. sec. 25, T. 24 N., R. 8 E., in SE. angle of junction of T-rd. S., 10 ft. S. of fence corner; standard iron post with bronze cap stamped "22 EB 1921 842"-----	841.658
Reference mark, 10 ft. N. and 5 ft. E. from iron post, 5 ft. E. of fence corner, 6 in. underground; cap on 1½-in. iron pipe-----	839.37
Mount Morris, 3.5 mi. W. of, 1.2 mi. S. and 2.3 mi. E. from Maryland, near center of sec. 30, T. 24 N., R. 9 E., on S side of E.-W. rd., at junction of T-rd. N., 15 ft. N. of fence, on N. end of W. concrete retaining wall of culvert; chiseled square <sup>69</sup> -----	854.38
Mount Morris, 3.5 mi. W. thence 1.0 mi. N. from, 0.2 mi. S. and 2.3 mi. E. from Maryland, near center of sec. 19, T. 24 N., R. 9 E., 190 ft. W. of T-junction of E.-W. rd., on E. end of N. concrete retaining wall of culvert; chiseled square <sup>69</sup> -----	896.57

<sup>69</sup> This bench mark is also described in Oregon quadrangle, line 6.

# 1404 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

[Continued in Oregon quadrangle, line 6]

2. From point 2.8 miles north and 0.4 mile west from Adeline along roads alternately west and north 1.6 miles, thence east to point 0.9 mile south and 1.4 miles west from German Valley (by E. O. Brooks in 1921)

[A jog from Oregon quadrangle, line 6]

Adeline, 3.0 mi. N. and 0.5 mi. W. from, 4.0 mi. N. and 4.0 mi. E. from Forrester, 1.9 mi. S. and 1.5 mi. W. from R. R. and highway crossing at German Valley, near S $\frac{1}{4}$ cor. sec. 6, T. 25 N., R. 9 E., in NW. angle of junction of T-rd. W., 5 ft. N. of fence corner; standard iron post with bronze cap stamped "26 EB 1921 809"-----	<i>Feet</i> 809.006
Reference mark, 2.5 ft. S. of iron post, 2.5 ft. N. of fence corner, 6 in. underground; cap on 1 $\frac{5}{8}$ -in. iron pipe-----	807.95
German Valley, 0.9 mi. S. thence 1.8 mi. W. from, 0.25 mi. W. of N $\frac{1}{4}$ cor. sec. 6, T. 25 N., R. 9 E., in SW. angle of junction of E-W. rd., 20 ft. W. of fence corner, on flint boulder; chiseled square-----	877.52

[Continued in Oregon quadrangle, line 6]

3. From point 1.2 miles south and 1.6 miles east from Shannon west along Chicago, Milwaukee, St. Paul & Pacific Railroad 2 miles (by C. E. Walker in 1927; releveled by H. S. Hall in 1941)

Shannon, 1.2 mi. S. and 1.6 mi. E. from, in NE $\frac{1}{4}$ sec. 29, T. 25 N., R. 7 E., 459 ft. S. of track, in barn owned by George Henning, in E. end of N. face of stone foundation wall, 2 ft. above ground; center mark of copper bolt leaded horizontally (U. S. C. E. B. M. 70)---	946.960
Shannon, 1.3 mi. S. and 1.0 mi. E. from, about 0.2 mi. N. of W $\frac{1}{4}$ cor. sec. 29, T. 25 N., R. 7 E., 250 ft. S. of rd. crossing, on E. side of rd., on concrete culvert; chiseled square-----	920.43
Shannon, 1.5 mi. S. of, near quarter corner between secs. 25 and 30, T. 25 N., Rs. 6 and 7 E., 360 ft. S. of rd. crossing, on NW. wing wall of concrete bridge over creek; chiseled square-----	883.64

[Continued in Mount Carroll quadrangle, line 1]

4. From point 0.8 mile west of Elkhorn Grove along roads east 0.3 mile, thence north to point 4.5 miles north of Shannon, thence northeast to point 0.7 mile northeast of Bolton (by C. E. Walker in 1927; last 0.7 mile leveled twice)

[Continued from Mount Carroll quadrangle, line 3]

Elkhorn Grove, 0.5 mi. W. of, about 0.4 mi. N. of SW. cor. oversize sec. 6, T. 23 N., R. 7 E., 30 ft. S. and 30 ft. E. from crossroads, in fence corner, in concrete post; standard tablet stamped "T T Sta No 98 JLS 1927" (recovered in 1930)-----	780.122
Reference mark, in SE. angle of crossroads, on head wall of concrete culvert; chiseled square (recovered in 1930)-----	780.35
Elkhorn Grove, 0.5 mi. W. thence 1.0 mi. N. from, near NW. cor. oversize sec. 6, T. 23 N., R. 7 E., at offset crossroads, in SE. angle of junction of T-rd. S., on corrugated iron culvert; chiseled square--	843.55
Elkhorn Grove, 0.5 mi. W. thence 2.0 mi. N. from, at Evangelical Church, near NE. cor. sec. 36, T. 24 N., R. 6 E., in SW. angle of crossroads, on lower part of SE. wing wall of concrete culvert; chiseled square-----	797.93

Elkhorn Grove, 0.5 mi. W. thence 3.0 mi. N. from, 3.5 mi. S. and 4.5 mi. E. from Lanark, near NE. cor. sec. 25, T. 24 N., R. 6 E., 50 ft. S. and 28 ft. W. from crossroads, in concrete post; standard tablet stamped "T T Sta No 103 JLS 1927"-----	Feet 789.882
Reference mark, in NW. angle of crossroads, on concrete culvert; chiseled square-----	791.39
Lanark, 2.5 mi. S. and 4.5 mi. E. from, near NE. cor. sec. 24, T. 24 N., R. 6 E., 40 ft. S. and 20 ft. W. from crossroads, inside of fence, in root on E. side of 14-in. maple tree; copper nail and washer-----	892.62
Lanark, 0.5 mi. S. thence 4.5 mi. E. from, 4.0 mi. S. of Shannon, near SE. cor. sec. 1, T. 24 N., R. 6 E., 36 ft. N. and 30 ft. W. from intersection of U. S. Highway 52, in fence corner, in concrete post; standard tablet stamped "T T Sta No 104 JLS 1927"-----	932.361
Reference mark, in NW. angle of crossroads, on concrete culvert; chiseled square-----	932.89
Shannon, 3.0 mi. S. of, near SE. cor. sec. 36, T. 25 N., R. 6 E., at offset crossroads, in NW. angle of junction of rd. N., on concrete culvert; chiseled square-----	952.29
Shannon, 1.0 mi. S. of, near NE. cor. sec. 25, T. 25 N., R. 6 E., 30 ft. S. and 30 ft. W. from crossroads, in concrete post; standard tablet stamped "T T Sta No 105 JLS 1927" (recovered in 1941)-----	915.485
Reference mark, in NW. angle of crossroads, on concrete culvert; chiseled square (recovered in 1941)-----	917.72
Shannon, in NW. part of, 0.25 mi. N. of crossroads, in small valley, on W. head wall of concrete bridge; chiseled square-----	906.61
Shannon, 1.0 mi. N. of, near SE. cor. sec. 12, T. 25 N., R. 6 E., on W. head wall of concrete bridge over creek; chiseled square-----	889.42
Shannon, 2.0 mi. N. of, near cor. secs. 1, 6, 7, and 12, T. 25 N., Rs. 6 and 7 E., at offset crossroads, 50 ft. N. and 30 ft. E. from junction of rd. W., 36 ft. S. and 30 ft. E. from junction of rd. E., at N. end of row of pine trees, in fence corner, in concrete post; standard tablet stamped "T T Sta No 106 JLS 1927"-----	902.600
Reference mark, in SE. angle of offset crossroads, on concrete culvert; chiseled square-----	902.78
Shannon, 3.0 mi. N. of, near cor. secs. 1, 6, 31, and 36, Tps. 25 and 26 N., Rs. 6 and 7 E., near Carroll-Stephenson county line, at bridge over Lost Creek, on SW. wing wall; chiseled square-----	830.47
Shannon, 4.0 mi. N. of, 1.0 mi. N. of Carroll-Stephenson county line, near W. cor. secs. 30 and 31, T. 26 N., R. 7 E., 20 ft. N. and 20 ft. E. from junction of T-rd. W., in field, in root on SW. side of 8-in. boxelder tree; copper nail and washer-----	871.64
Shannon, 4.5 mi. N. thence 0.5 mi. E. from, 1.5 mi. S. and 0.5 mi. W. from Bolton, near center of sec. 30, T. 26 N., R. 7 E., 25 ft. N. and 55 ft. E. from junction of T-rd. N., in concrete post; standard tablet stamped "T T Sta No 107 JLS 1927" (recovered in 1934)-----	851.951
Reference mark, in NW. angle of rd. junction, in fence corner, on base of concrete post; chiseled square (recovered in 1934)-----	851.56
Bolton, 1.2 mi. SW. of, near quarter corner between secs. 19 and 30, T. 26 N., R. 7 E., 100 ft. W. of angle NE. in rd., in root on S. side of double-trunked willow tree; copper nail and washer-----	876.34
Bolton, at Chicago Great Western Ry. sta., in front of operator's window, on SE. corner of concrete base of semaphore; chiseled square (recovered in 1934)-----	819.69

# 1406 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Bolton, 0.7 mi. NE. of, at Van Brocklin School, near center of sec. 17, T. 26 N., R. 7 E., 360 ft. SW. of steel bridge over Yellow Creek, 30 ft. S. and 75 ft. W. from SW. corner of schoolhouse; standard iron post with bronze cap stamped "Prim Trav Sta No 27 1911" (recovered in 1934)-----	<i>Feet</i> 798.759
5. From point 0.5 mile west of Elkhorn Grove east along roads to point 1 mile north and 3.5 miles east from Polo (by G. W. Moore in 1930)	
Elkhorn Grove, 230 ft. W. of rd. fork, 330 ft. W. of large iron bridge, on W. end of N. head wall of concrete culvert; chiseled square----	742.45
Elkhorn Grove, 1.2 mi. E. of, 0.3 mi. N. of S¼ cor. oversize sec. 5, T. 23 N., R. 7 E., 15 ft. N. and 35 ft. W. from crossroads, on N. head wall of concrete culvert; chiseled square-----	787.30
Elkhorn Grove, 1.6 mi. E. thence 0.3 mi. S. from, near SE. cor. oversize sec. 5, T. 23 N., R. 7 E., 15 ft. N. and 25 ft. W. from junction of T-rd. E., 20 ft. N. of fence corner, in base on E. side of Osage-orange tree; copper nail and washer-----	841.88
Elkhorn Grove, 0.5 mi. S. and 2.6 mi. E. from, 2.6 mi. N. of Hazelhurst, 1.0 mi. N. thence 5.5 mi. W. from Polo, near SW. cor. oversize sec. 3, T. 23 N., R. 7 E., near Carroll-Ogle county line, 21 ft. N. and 30 ft. E. from crossroads, in concrete post; standard tablet stamped "T T 104 E 1929"-----	819.238
Reference mark, 40 ft. S. and 20 ft. W. from tablet, in SE. angle of crossroads, on N. end of E. head wall of concrete culvert; chiseled square-----	819.91
Polo, 1.0 mi. N. thence 5.0 mi. W. from, near N¼ cor. sec. 10, T. 23 N., R. 7 E., 30 ft. S. and 85 ft. W. from crossroads, in root on NE. side of 12-in. wild-cherry tree; copper nail and washer-----	843.30
Polo, 1.0 mi. N. thence 4.5 mi. W. from, near SW. cor. oversize sec. 2, T. 23 N., R. 7 E., 375 ft. E. of crossroads, on N. side of rd., on W. end of N. head wall of concrete culvert; chiseled square----	815.45
Polo, 1.0 mi. N. thence 3.3 mi. W. from, 0.25 mi. E. of NW. cor. sec. 12, T. 23 N., R. 7 E., 30 ft. S. and 70 ft. W. from crossroads, in root on NE. side of 15-in. mulberry tree; copper nail and washer--	898.44
Polo, 1.0 mi. N. thence 2.5 mi. W. from, near NE. cor. sec. 12, T. 23 N., R. 7 E., 30 ft. S. and 28 ft. W. from crossroads, in concrete post; standard tablet stamped "T T 105 E 1929"-----	876.478
Reference mark, 55 ft. N. and 30 ft. E. from crossroads, in root on SW. side of 18-in. boxelder tree; copper nail and washer-----	877.33
Polo, 1.0 mi. N. thence 1.5 mi. W. from, near E. cor. secs. 6 and 7, T. 23 N., R. 8 E., 30 ft. N. and 20 ft. W. from junction of T-rd. N., on S. end of W. head wall of concrete culvert; chiseled square----	896.26
Polo, 1.0 mi. N. thence 0.7 mi. W. from, 0.17 mi. W. of SE. cor. oversize sec. 5, T. 23 N., R. 8 E., 920 ft. W. of junction of T-rd. N., on E. end of N. head wall of concrete culvert; chiseled square--	837.33
Polo, 1.0 mi. N. of, near S¼ cor. oversize sec. 4, T. 23 N., R. 8 E., near schoolhouse, 320 ft. W. of junction of T-rd. S., on N. side of rd., on E. end of N. head wall of concrete culvert; chiseled square (recovered by U. S. C. & G. S. in 1934)-----	859.913
Polo, 1.0 mi. N. thence 0.5 mi. E. from, near SE. cor. oversize sec. 4, T. 23 N., R. 8 E., 30 ft. N. and 48 ft. W. from crossroads, in concrete post; standard tablet stamped "T T 106 E 1929"-----	868.304

Polo, 1.0 mi. N. thence 1.6 mi. E. from, 0.08 mi. E. of SW. cor. oversize sec. 2, T. 23 N., R. 8 E., 30 ft. N. and 445 ft. E. from junction of T-rd. N., in root on S. side of 24-in. maple tree; copper nail and washer-----	<i>Feet</i> 891.59
Polo, 1.0 mi. N. thence 2.5 mi. E. from, 3.0 mi. S. and 5.0 mi. W. from Mount Morris, near SW. cor. oversize sec. 1, T. 23 N., R. 8 E., 35 ft. N. and 85 ft. E. from crossroads, in root on S. side of 36-in. maple tree; copper nail and washer-----	886.92
6. From point 0.5 mile north and 2 miles east from Bolton along roads generally west and southwest to Bolton (by G. W. Moore in 1930; leveled twice)	

[Continued from Freeport quadrangle, line 2]

Bolton, 0.5 mi. N. and 2.0 mi. E. from, near W¼ cor. sec. 15, T. 26 N., R. 7 E., 25 ft. N. and 20 ft. E. from junction of T-rd. S., 20 ft. E. of fence corner, inside of fence, in root on N. side of 15-in. wild-cherry tree; copper nail and washer <sup>60</sup> -----	816.70
Bolton, 0.3 mi. N. and 1.2 mi. E. from, near center of SW¼ sec. 16, T. 26 N., R. 7 E., 21 ft. S. of rd., 65 ft. E. of N-S. fence, in root on NW. side of 20-in. willow tree; copper nail and washer-----	794.06
Bolton, 0.7 mi. NE. of, at Van Brocklin School, near center of sec. 17, T. 26 N., R. 7 E., 55 ft. W. of schoolhouse, 56 ft. N. and 30 ft. E. from standard iron post, on NE. corner of pump platform; chiseled square <sup>61</sup> -----	799.30
7. From point 1.2 miles south and 1.6 miles east from Shannon along roads east and south 1.1 miles, thence east to point 4 miles east of Forreston (by G. W. Moore in 1930)	
Shannon, 2.0 mi. S. thence 2.0 mi. E. from, 65 mi. W. of Forreston, near SE. cor. sec. 29, T. 25 N., R. 7 E., 25 ft. N. and 45 ft. W. from crossroads, in concrete post; standard tablet stamped "T T 107 E 1929"-----	1,019.080
Reference mark, 42 ft. SE. of tablet, in SW. angle of crossroads, on E. end of S. head wall of concrete culvert; chiseled square-----	1,019.52
Forreston, 5.5 mi. W. of, near SW. cor. sec. 27, T. 25 N., R. 7 E., in NE. angle of crossroads, on E. end of N. head wall of concrete culvert; chiseled square-----	999.62
Forreston, 4.5 mi. W. of, 1.0 mi. S. thence 1.0 mi. W. from Harper, near NE. cor. sec. 34, T. 25 N., R. 7 E., in SW. angle of crossroads, on S. end of W. head wall of concrete culvert; chiseled square----	984.52
Forreston, 3.5 mi. W. of, 1.0 mi. S. of Harper, at Pleasant Hill School, near SE. cor. sec. 26, T. 25 N., R. 7 E., 27 ft. N. and 50 ft. W. from crossroads, in SE. corner of schoolyard, in concrete post; standard tablet stamped "T T 108 E 1929"-----	966.08
Reference mark, 70 ft. N. and 70 ft. E. from tablet, 26 ft. S. of S. side of schoolhouse, in root on W. side of 25-in. beech tree; copper nail and washer-----	967.04
Forreston, 2.5 mi. W. of, 1.0 mi. S. thence 1.0 mi. E. from Harper, near E. cor. secs. 25 and 36, T. 25 N., R. 7 E., 95 ft. W. of offset crossroads, 35 ft. S. of junction of rd. E., on S. head wall of concrete culvert; chiseled square-----	919.78

<sup>60</sup> Also described in Freeport quadrangle, line 2.<sup>61</sup> Established as a reference mark to permanent bench mark stamped "Prim Trav Sta No 27 1911," described in line 4.

# 1408 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Forreston, 1.5 mi. W. of, near NW. cor. sec. 32, T. 25 N., R. 8 E., 30 ft. S. and 25 ft. E. from junction of T-rd. S., at NW. corner of schoolyard, in root on E. side of 14-in. elm tree; copper nail and washer-----	Feet 926.60
Forreston, 0.5 mi. W. of, near cor. secs. 28, 29, 32, and 33, T. 25 N., R. 8 E., 200 ft. E. of N-S. fence, on top of hill, in small park in rd., in root on SE. side of 39-in. cottonwood tree; copper nail and washer-----	947.78
Forreston, 25 ft. S. and 25 ft. E. from intersection of Walnut and A Streets, 7 ft. S. and 2 ft. W. from fireplug, in concrete post; standard tablet stamped "T T 109 E 1929" <sup>a</sup> -----	937.114
Reference mark, 13 ft. SE. of tablet, on SE. corner of concrete base of light standard; chiseled square-----	936.80
Forreston, 1.0 mi. E. of, near N¼ cor. sec. 34, T. 25 N., R. 8 E., 53 ft. S. of rd., in N-S. quarter-section-line fence, 13 ft. S. of fence corner, in root on NW. side of 30-in. maple tree; copper nail and washer-----	900.59
Forreston, 2.0 mi. E. of, near S¼ cor. sec. 26, T. 25 N., R. 8 E., 340 ft. W. of crossroads, on top of hill, on E. end of N. head wall of concrete culvert; chiseled square-----	946.43
Forreston, 2.5 mi. E. of, near cor. secs. 25, 26, 35, and 36, T. 25 N., R. 8 E., 40 ft. N. of rd., 45 ft. E. of N-S. fence, in concrete post; standard tablet stamped "T T 110 E 1929"-----	894.495
Reference mark, 135 ft. E. of tablet, inside fence, in root on S. side of 16-in. pine tree, eighth tree from fence corner; copper nail and washer-----	889.08
Forreston, 3.5 mi. E. of, near SE. cor. sec. 25, T. 25 N., R. 8 E., 55 ft. W. of junction of T-rd. S., on E. end of N. head wall of concrete culvert; chiseled square-----	834.01
Forreston, 4.0 mi. E. of, 1.1 mi. S. thence 0.5 mi. W. from Adeline, near S¼ cor. sec. 30, T. 25 N., R. 9 E., 35 ft. N. and 25 ft. W. from junction of T-rd. N., on N. end of W. head wall of concrete culvert; chiseled square-----	765.83

[Continued in Oregon quadrangle, line 10]

8. From Van Brocklin School along roads southwest 0.7 mile to Bolton, thence west 1 mile, thence north 0.5 mile, thence east and southeast to Van Brocklin School (by W. J. Drath in 1934)

Bolton, 1.0 mi. W. thence 0.5 mi. N. from, near E¼ cor. sec. 13, T. 26 N., R. 6 E., 100 ft. W. of junction of E-W. rd., on S. side of rd., 1 ft. N. of E-W. fence, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "2 10 1934"-----	874.049
Bolton, 0.5 mi. N. and 0.5 mi. W. from, 250 ft. E. of center of sec. 18, T. 26 N., R. 7 E., on W. end of S. head wall of concrete culvert; chiseled square-----	805.01

9. From Bolton along roads south 1.5 miles, thence west 0.5 mile (by W. J. Drath in 1934)

Bolton, 1.5 mi. S. of, near W¼ cor. sec. 29, T. 26 N., R. 7 E., 50 ft. N. of crossroads, on E. side of rd., in ditch, on top of concrete wall; chiseled square-----	874.04
---	--------

<sup>a</sup>In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "A 47 1934," elevation 930.539 ft.

# FREEPORT QUADRANGLE

[Latitude 42°15'–42°30'; longitude 89°30'–89°45']

## STEPHENSON COUNTY

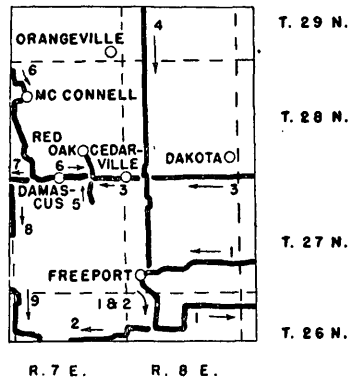


FIGURE 236.—Lines of leveling in Freeport quadrangle.

1. From point 1.3 miles west of Ridott Bridge over Pecatonica River along roads west to Freeport, thence southeast and south 3.3 miles, thence alternately east and north to point 1.5 miles south and 1.3 miles west from Ridott (by J. M. Perkins in 1915)

[Continued from Pecatonica quadrangle, line 2]

Ridott Bridge, 2.0 mi. W. of, 5.6 mi. E. of post office in Freeport, near W¼ cor. sec. 30, T. 27 N., R. 9 E., 50 ft. NE. of crossroads, in root of large oak tree; copper nail and washer-----	Feet 768.86
Freeport, 3.2 mi. E. of, 0.25 mi. E. of center of sec. 27, T. 27 N., R. 8 E., at junction of rd. N., near NW. corner fence post; standard iron post with bronze cap stamped "1915 755"-----	753.979
Freeport, 2.6 mi. E. of, 0.25 mi. S. of quarter corner between secs. 27 and 28, T. 27 N., R. 8 E., at junction of rd. N., on S. side of rd., in root of large boxelder tree; copper nail and washer-----	758.79
Freeport, at S. entrance of post office, in W. end of top granite step; standard tablet stamped "1915 781" (recovered in 1934; also recovered by U. S. C. & G. S. in 1920)-----	780.136
Freeport, at NW. corner of intersection of Clark Avenue and Chicago Street; top of fire hydrant (recovered by U. S. C. & G. S. in 1920)-----	769.090
Freeport, on South Galena Avenue, at corner of Carroll Street; top of fire hydrant (recovered in 1930)-----	814.60
Freeport, 2.8 mi. S. and 0.7 mi. E. from post office, 30 ft. N. and 30 ft. W. from S¼ cor. sec. 8, T. 26 N., R. 8 E., in NW. angle of crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No. 32 1911 773" (recovered in 1930) <sup>68</sup> -----	772.760

<sup>68</sup> In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "H 47 1934," elevation 812.397 ft.

# 1410 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Freeport, 2.8 mi. S. and 2.2 mi. E. from, near cor. secs. 9, 10, 15, and 16, T. 26 N., R. 8 E., at crossroads, in root of large willow tree; copper nail and washer-----	<i>Feet</i> 779.70
Freeport, 1.8 mi. S. and 2.2 mi. E. from, at Eder School (District School 113), near NE. cor. sec. 9, T. 26 N., R. 8 E., on S. end of front door-sill of schoolhouse-----	799.28
Freeport, 1.6 mi. S. and 3.7 mi. E. from, 1.5 mi. S. thence 3.5 mi. W. from Ridott, about 0.3 mi. S. of center of sec. 2, T. 26 N., R. 8 E., at crossroads; standard iron post with bronze cap stamped "1915 777" <sup>64</sup> -----	776.983
Ridott, 1.5 mi. S. thence 2.4 mi. W. from, at State Road Reform Church, in SE¼ sec. 1, T. 26 N., R. 8 E., in NE. angle of junction of T-rd. N., in churchyard, in root of cherry tree; copper nail and washer-----	774.91
Ridott, 1.5 mi. S. thence 1.5 mi. W. from, in SW¼ sec. 6, T. 26 N., R. 9 E., at crossroads, near SE. fence corner, in root of poplar tree; copper nail and washer-----	816.74
[Connects with line 1 in Pecatonica quadrangle]	
2. From Stephenson County courthouse in Freeport along roads south and southeast 3.3 miles, thence alternately west and south to point 0.5 mile north and 2 miles east from Bolton (by G. W. Moore in 1930; leveled twice)	
U. S. C. & G. S. standard disk stamped "V 6" (recovered in 1934)-----	794.362
Freeport, in SE. part of, 300 ft. N. of St. Joseph's German Catholic Cemetery, near crossroads, on SE. abutment of concrete culvert; chiseled square <sup>65</sup> -----	811.72
Freeport, 2.6 mi. SE. of, about 0.3 mi. S. of N¼ cor. sec. 8, T. 26 N., R. 8 E., 65 ft. NW. of junction of T-rd. E., at SE. corner of large steel bridge over Yellow Creek, on E. end of S. concrete curb; chiseled square-----	762.34
Freeport, 2.8 mi. S. and 0.3 mi. W. from, near quarter corner between secs. 7 and 18, T. 26 N., R. 8 E., near poor farm, 260 ft. E. of junction of T-rd. N., 135 ft. W. of junction of rd. S., at large steel bridge over Crane Creek, on E. end of SE. wing wall; chiseled square---	765.34
Freeport, 3.0 mi. S. and 0.8 mi. W. from, 0.25 mi. S. of NE. cor. sec. 13, T. 26 N., R. 7 E., 30 ft. W. of State Highway 26, on E. end of N. head wall of concrete culvert under T-rd. W.; chiseled square-----	784.54
Freeport, 3.3 mi. S. and 1.8 mi. W. from, 0.5 mi. N. and 4.0 mi. E. from Bolton, at Becker School, near W¼ cor. sec. 13, T. 26 N., R. 7 E., 29 ft. S. and 29 ft. E. from crossroads, 2 ft. NW. of fence corner, in concrete post; standard tablet stamped "5 M 1930"-----	833.013
Reference mark, 9 ft. S. and 92 ft. E. from tablet, 43 ft. NE. of NE. corner of schoolhouse, in schoolyard, in root on NE. side of 27-in. oak tree; copper nail and washer-----	835.90
Bolton, 0.5 mi. N. and 3.0 mi. E. from, near W¼ cor. sec. 14, T. 26 N., R. 7 E., 30 ft. N. and 10 ft. E. from junction of T-rd. N., on N.-S. fence line, near fence corner, in root on S. side of 12-in. maple tree; copper nail and washer-----	829.15

<sup>64</sup> In 1932 this bench mark was moved 15 ft. north and reset at an elevation 0.480 ft. higher than that originally determined. The figures given represent the new elevation.

<sup>65</sup> This bench mark replaces the chiseled square formerly on the southwest abutment (established in 1915), which was destroyed by the removal of the southwest head wall of the bridge.

Bolton, 0.5 mi. N. and 2.0 mi. E. from, near W $\frac{1}{4}$ cor. sec. 15, T. 26 N., R. 7 E., 25 ft. N. and 20 ft. E. from junction of T-rd. S., 20 ft. E. of fence corner, inside of fence, in root on N. side of 15-in. wild- cherry tree; copper nail and washer <sup>68</sup> -----	Feet 816.70
--	----------------

[Continued in Forreaston quadrangle, line 6]

3. From point 1 mile south and 1.2 miles east from Dakota west  
along township-line road to point 1.7 miles west of Cedarville,  
thence north along Illinois Central Railroad to Red Oak (by  
F. C. Pinch in 1934; leveled twice)

[Continued from Pecatonica quadrangle, line 10]

Dakota, 1.0 mi. S. and 0.4 mi. E. from, 0.1 mi. W. of NE. cor. sec. 1, T. 27 N., R. 8 E., about 500 ft. W. of crossroads, on SW. wing wall of bridge, 10 ft. NE. of SW. end of wing wall, just above face of W. abutment; chiseled square-----	857.20
Dakota, 1.0 mi. S. of, 150 ft. W. of S $\frac{1}{4}$ cor. sec. 36, T. 28 N., R. 8 E., 20 ft. N. of center line of rd., in crotch of forked tree; nail-----	918.71
Dakota, 1.0 mi. S. and 0.7 mi. W. from, 0.15 mi. W. of SE. cor. sec. 35, T. 28 N., R. 8 E., 100 ft. N. and 600 ft. W. from offset crossroads, 120 ft. NE. and 40 ft. NW. from intersection of E-W. rd. and State Highway 75, at E. right-of-way line of Chicago, Milwaukee, St. Paul & Pacific R. R., in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "1 7 1934"-----	887.297
Dakota, 1.0 mi. S. and 0.9 mi. W. from, 0.1 mi. E. of S $\frac{1}{4}$ cor. sec. 35, T. 28 N., R. 8 E., 225 ft. W. of farmhouse on N. side of rd., 40 ft. N. of center line of rd., in root of 30-in. tree; nail-----	854.50
Dakota, 1.0 mi. S. and 1.1 mi. W. from, 0.1 mi. W. of N $\frac{1}{4}$ cor. sec. 2, T. 27 N., R. 8 E., on W. end of S. head wall of concrete culvert; chiseled square-----	858.60
Dakota, 1.0 mi. S. and 1.5 mi. W. from, near S. cor. secs. 34 and 35, T. 28 N., R. 8 E., at offset crossroads, 20 ft. N. and 10 ft. E. from junction of rd. S., on SW. end of head wall of diagonal culvert under rd. N.; chiseled square-----	870.27
Dakota, 1.0 mi. S. and 2.3 mi. W. from, 0.25 mi. W. of S $\frac{1}{4}$ cor. sec. 34, T. 28 N., R. 8 E., 30 ft. N. of center line of rd., opposite and 10 ft. E. from fence line S., in root of 24-in. tree; spike-----	908.81
Dakota, 1.0 mi. S. and 2.5 mi. W. from, 3.0 mi. E. of Cedarville, near SE. cor. sec. 33, T. 28 N., R. 8 E., at offset crossroads, 35 ft. N. and 90 ft. W. from junction of rd. S., at N. fence of E-W. rd., in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "1 8 1934"-----	891.794
Reference mark, 200 ft. W. of disk, 300 ft. W. of crossroads, on E. end of N. head wall of concrete culvert; chiseled square-----	885.39
Cedarville, 2.6 mi. E. of, 0.15 mi. E. of N $\frac{1}{4}$ cor. sec. 4, T. 27 N., R. 8 E., on E. end of S. head wall of culvert; chiseled square-----	887.21
Cedarville, 2.2 mi. E. of, 0.2 mi. E. of SW. cor. sec. 33, T. 28 N., R. 8 E., 0.2 mi. E. of junction of T-rd. S., 30 ft. N. of center line of rd., inside of fence, in root of 24-in. elm tree; spike and washer-----	912.35
Cedarville, 1.5 mi. E. of, near N $\frac{1}{4}$ cor. sec. 5, T. 27 N., R. 8 E., 0.5 mi. W. of Mount Hope School, on W. end of S. head wall of culvert; chiseled square-----	853.11

<sup>68</sup> Also described in Forreaston quadrangle, line 6.

Cedarville, 1.2 mi. E. of, 0.2 mi. E. of SW. cor. sec. 32, T. 28 N., R. 8 E., 0.2 mi. E. of junction of T-rd. S., on E. end of N. head wall of cul- vert; chiseled square-----	<i>Feet</i> 834.58
Cedarville, 1.0 mi. E. of, 20 ft. S. and 50 ft. W. from NE. cor. sec. 6, T. 27 N., R. 8 E., in SW. angle of junction of T-rd. S.; standard iron post with bronze cap stamped "Prim Trav Sta No 31 1911"-----	843.790
Cedarville, 0.8 mi. E. of, 0.2 mi. W. of NE. cor. sec. 6, T. 27 N., R. 8 E., 0.2 mi. W. of junction of T-rd. S., on E. end of S. head wall of cul- vert; chiseled square-----	822.31
Cedarville, 0.6 mi. E. of, near S $\frac{1}{4}$ cor. sec. 31, T. 28 N., R. 8 E., on E. end of N. head wall of culvert; chiseled square-----	818.90
Cedarville, 0.4 mi. E. of, 0.12 mi. W. of S $\frac{1}{4}$ cor. sec. 31, T. 28 N., R. 8 E., on E. end of N. head wall of culvert; chiseled square-----	822.43
Cedarville, near cor. secs. 1, 6, 31 and 36, Tps. 27 and 28 N., Rs. 7 and 8 E., near crossroads, on SE. corner of E. head wall of concrete culvert under highway; chiseled square-----	849.78
Cedarville, in W. part of, 0.2 mi. W. of SE. cor. sec. 36, T. 28 N., R. 7 E., on NE. corner of N. head wall of culvert; chiseled square-----	825.99
Cedarville, 0.6 mi. W. of, near N $\frac{1}{4}$ cor. sec. 1, T. 27 N., R. 7 E., 100 ft. E. of bridge, 40 ft. S. of center line of rd., in root of oak tree; spike and washer-----	791.01
Cedarville, 1.0 mi. W. of, near S. cor. secs. 35 and 36, T. 28 N., R. 7 E., 30 ft. N. of center line of rd., at probable section-line fence N., in con- crete post; U. S. C. & G. S. and State Survey standard disk stamped "1 9 1934"-----	784.250
Cedarville, 1.1 mi. W. of, 700 ft. W. of NE. cor. sec. 2, T. 27 N., R. 7 E., on E. end of S. head wall of culvert; chiseled square-----	776.67
Cedarville, 1.5 mi. W. of, near S $\frac{1}{4}$ cor. sec. 35, T. 28 N., R. 7 E., 30 ft. N. and 100 ft. W. from crossroads, in root of 24-in. oak tree; spike and washer-----	766.00
Cedarville, 1.7 mi. W. of, 1.2 mi. S. of Red Oak, 1.3 mi. N. of Scioto Mills, 2.0 mi. E. of Damascus, 0.25 mi. E. of NW. cor. sec. 2, T. 27 N., R. 7 E., 20 ft. S. and 140 ft. W. from I. C. R. R. crossing, in stump; spike and washer-----	764.48
U. S. C. & G. S. standard disk stamped "Y 6"-----	773.548
4. From point 2.2 miles north and 1.5 miles east from Orangeville along roads south to Freeport (by F. C. Pinch in 1934; leveled twice)	
[Connects with line 1 in Monroe quadrangle]	
Orangeville, 1.5 mi. N. and 1.5 mi. E. from, near NW. cor. sec. 29, T. 29 N., R. 8 E., 200 ft. N. of farmhouse on E. side of rd., on NE. wing wall of N. abutment of bridge; chiseled square-----	884.20
Orangeville, 1.2 mi. N. and 1.5 mi. E. from, 0.25 mi. N. of W $\frac{1}{4}$ cor. sec. 29, T. 29 N., R. 8 E., 150 ft. S. and 25 ft. E. from junction of rd. W., at fence line, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "1 1 1934"-----	968.637
Orangeville, 0.9 mi. N. and 1.5 mi. E. from, near W $\frac{1}{4}$ cor. sec. 29, T. 29 N., R. 8 E., 500 ft. S. of schoolhouse, on NE. wing wall of N. abut- ment of bridge; chiseled square-----	900.67
Orangeville, 0.5 mi. N. and 1.5 mi. E. from, near W. cor. secs. 29 and 32, T. 29 N., R. 8 E., 40 ft. E. of crossroads, on NE. wing wall of concrete culvert; chiseled square-----	972.63

Orangeville, 0.2 mi. S. and 1.5 mi. E. from, 0.3 mi. N. of SW. cor. sec. 32, T. 29 N., R. 8 E., 0.3 mi. N. of crossroads, on SE. wing wall of S. abutment of bridge; chiseled square-----	Feet 871.23
Orangeville, 0.5 mi. S. and 1.5 mi. E. from, near NE. cor. sec. 6, T. 28 N., R. 8 E., at offset crossroads, 25 ft. S. and 100 ft. W. from junction of rd. N., 25 ft. S. and 135 ft. W. from junction of rd. S., at S. fence, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "1 2 1934"-----	956.708
Orangeville, 1.2 mi. S. and 1.5 mi. E. from, 0.3 mi. N. of Brush Creek School, 0.25 mi. S. of W $\frac{1}{4}$ cor. sec. 5, T. 28 N., R. 8 E., 700 ft. S. of cheese factory, at bridge over Brush Creek, on SE. wing wall of S. abutment; chiseled square-----	841.61
Orangeville, 1.5 mi. S. and 1.5 mi. E. from, at Brush Creek School, near E. cor. secs. 6 and 7, T. 28 N., R. 8 E., 50 ft. W. of center line of rd., 20 ft. N. of schoolhouse, on pump platform; chiseled square-----	896.73
Orangeville, 1.8 mi. S. and 1.5 mi. E. from, 0.2 mi. N. of W $\frac{1}{4}$ cor. sec. 8, T. 28 N., R. 8 E., on N. end of E. head wall of concrete culvert; chiseled square-----	867.50
Orangeville, 2.0 mi. S. and 1.5 mi. E. from, near W $\frac{1}{4}$ cor. sec. 8, T. 28 N., R. 8 E., 20 ft. N. and 20 ft. E. from crossroads, on SE. wing wall of concrete culvert; chiseled square-----	851.70
Orangeville, 2.3 mi. S. and 1.5 mi. E. from, 0.26 mi. S. of W $\frac{1}{4}$ cor. sec. 8, T. 28 N., R. 8 E., on NE. wing wall of concrete culvert; chiseled square-----	889.54
Orangeville, 3.0 mi. S. and 1.5 mi. E. from, 0.9 mi. E. thence 3.5 mi. N. from Cedarville, opposite Champion Hill School, near E $\frac{1}{4}$ cor. sec. 18, T. 28 N., R. 8 E., 135 ft. N. and 30 ft. W. from crossroads, at W. fence line, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "1 3 1934"-----	939.241
Cedarville, 0.9 mi. E. thence 2.8 mi. N. from, 0.25 mi. S. of NW. cor. sec. 20, T. 28 N., R. 8 E., 0.25 mi. S. of crossroads, 25 ft. E. of center line of rd., in root of 36-in. tree, southernmost of two large trees standing alone; spike and washer-----	907.16
Cedarville, 0.9 mi. E. thence 2.4 mi. N. from, 400 ft. S. of E $\frac{1}{4}$ cor. sec. 19, T. 28 N., R. 8 E., on N. end of W. head wall of concrete culvert; chiseled square-----	869.21
Cedarville, 0.9 mi. E. thence 2.2 mi. N. from, 0.25 mi. N. of SW. cor. sec. 20, T. 28 N., R. 8 E., 300 ft. S. of junction of T-rd. E., on E. wing wall of S. abutment of bridge; chiseled square-----	845.92
Cedarville, 0.9 mi. E. thence 1.5 mi. N. from, near W $\frac{1}{4}$ cor. sec. 29, T. 28 N., R. 8 E., 115 ft. S. and 30 ft. E. from crossroads, at E. fence, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "1 4 1934"-----	826.528
Reference mark, 1,000 ft. N. of disk, 900 ft. N. of crossroads, on N. end of E. head wall of concrete culvert; chiseled square-----	829.66
Cedarville, 0.9 mi. E. thence 0.9 mi. N. from, 0.15 mi. S. of N.W. cor. sec. 32, T. 28 N., R. 8 E., 0.15 mi. S. of crossroads, at steel bridge with concrete floor over Cedar Creek, on S. end of E. hub guard; chiseled square-----	806.08
Cedarville, 0.9 mi. E. thence 0.4 mi. N. from, 0.1 mi. SW. of E $\frac{1}{4}$ cor. sec. 31, T. 28 N., R. 8 E., 400 ft. SW. of angle in rd. around swampy ground, on N. end of E. head wall of concrete culvert; chiseled square-----	809.04

# 1414 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Cedarville, 1.0 mi. E. thence 0.2 mi. S. from, 0.23 mi. S. of NW. cor. sec. 5, T. 27 N., R. 8 E., 0.2 mi. S. of junction of T-rd. S., on N. end of E. head wall of concrete culvert; chiseled square-----	<i>Feet</i> 835.97
Cedarville, 1.0 mi. E. thence 0.5 mi. S. from, near W $\frac{1}{4}$ cor. sec. 5, T. 27 N., R. 8 E., on E. side of rd., on E. end of S. head wall of culvert under driveway to farmhouse; chiseled square-----	886.04
Cedarville, 1.0 mi. E. thence 0.7 mi. S. from, 0.2 mi. S. of E $\frac{1}{4}$ cor. sec. 6, T. 27 N., R. 8 E., on N. end of W. head wall of concrete culvert; chiseled square-----	913.65
Cedarville, 1.0 mi. E. thence 1.2 mi. S. from, 0.2 mi. S. of NE. cor. sec. 7, T. 27 N., R. 8 E., 0.2 mi. S. of junction of T-rd. E., 50 ft. N. of jog in rd. around orchard, near center of W. head wall of concrete culvert; chiseled square-----	885.74
Cedarville, 1.0 mi. E. thence 1.4 mi. S. from, 0.1 mi. N. of W $\frac{1}{4}$ cor. sec. 8, T. 27 N., R. 8 E., near N. end of W. head wall of concrete culvert; chiseled square-----	893.23
Cedarville, 1.0 mi. E. thence 1.6 mi. S. from, 0.1 mi. S. of W $\frac{1}{4}$ cor. sec. 8, T. 27 N., R. 8 E., at S. angle of jog in rd., 30 ft. E. of center line of rd., in root of 12-in. tree; spike and washer-----	920.64
Cedarville, 1.0 mi. E. thence 1.8 mi. S. from, 850 ft. N. of SE. cor. sec. 7, T. 27 N., R. 8 E., 850 ft. N. of crossroads, on W. head wall of concrete culvert; chiseled square-----	884.29
Cedarville, 1.0 mi. E. thence 2.0 mi. S. from, 3.3 mi. N. of Freeport, near NE. cor. sec. 18, T. 27 N., R. 8 E., 90 ft. S. and 35 ft. W. from crossroads, at W. fence line, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "1 5 1934"-----	898.826
Freeport, 2.7 mi. N. of, 500 ft. S. of quarter corner between secs. 17 and 18, T. 27 N., R. 8 E., on head wall of concrete culvert; chiseled square-----	841.68
Freeport, 2.3 mi. N. of, near SW. cor. sec. 17, T. 27 N., R. 8 E., 75 ft. N. and 20 ft. E. from crossroads, in root of 30-in. tree; spike and washer-----	828.36
Freeport, 2.1 mi. N. of, 0.17 mi. S. of NW. cor. sec. 20, T. 27 N., R. 8 E., 0.17 mi. S. of crossroads, on S. end of E. head wall of concrete culvert; chiseled square-----	815.07
Freeport, 1.9 mi. N. of, 750 ft. N. of E $\frac{1}{4}$ cor. sec. 19, T. 27 N., R. 8 E., on SW. wing wall of concrete culvert; near W. face of culvert barrel; chiseled square-----	800.16
Freeport, 1.3 mi. N. of, near SW. cor. sec. 20, T. 27 N., R. 8 E., 90 ft. N. and 35 ft. E. from crossroads, at E. fence line, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "1 6 1934"-----	817.346
Freeport, at NE. corner of intersection of Henderson and Stephenson Streets; top of fire hydrant-----	762.16
U. S. C. & G. S. standard disk stamped "U 6"-----	766.344
5. From Scioto Mills north along Illinois Central Railroad to Red Oak (by F. C. Finch in 1934)	
U. S. C. & G. S. standard disk stamped "X 6"-----	770.966

6. From point 1.8 miles northwest of McConnell along roads generally south to crossroads 1.3 miles west of Damascus, thence east to Illinois Central Railroad crossing, thence north along railroad to Red Oak (by W. M. Hay and W. J. Drath in 1934)

[Continued from Lena quadrangle, line 3]

McConnell, 1.3 mi. NW. of, in SW $\frac{1}{4}$ sec. 6, T. 28 N., R. 7 E., in SW. angle of jog from E. to S. in rd., in root of 12-in. walnut tree; spike-----	Feet 796.19
McConnell, 0.6 mi. NW. of, in NE $\frac{1}{4}$ sec. 7, T. 28 N., R. 7 E., 0.2 mi. SE. of junction of rd. N., at SE. end of bridge over Muddy Creek, on SE. end of NE. wing wall of tubular pier; chiseled square-----	769.55
U. S. C. & G. S. standard disk stamped "A 7"-----	776.855
McConnell, 0.3 mi. SW. of, at W. end of bridge over Pecatonica River, on W. end of S. wing wall; chiseled square-----	772.62
McConnell, 0.7 mi. SW. of, 0.25 mi. W. of N $\frac{1}{4}$ cor. sec. 18, T. 28 N., R. 7 E., 100 ft. S. and 75 ft. E. from junction of T-rd. S., at two-story brick building; top of NW. corner of stone foundation-----	849.57
McConnell, 0.7 mi. SW. thence 0.5 mi. S. from, 0.25 mi. W. of center of sec. 18, T. 28 N., R. 7 E., on E. side of rd., 15 ft. S. of quarter-section-line fence E., in root of 24-in. maple tree; spike-----	779.49
McConnell, 0.7 mi. SW. thence 1.0 mi. S. from, 0.25 mi. W. of N $\frac{1}{4}$ cor. sec. 19, T. 28 N., R. 7 E., on W. side of rd., 60 ft. S. of junction of rd. W., in root of 20-in. wild-cherry tree; nail-----	775.21
McConnell, 0.7 mi. SW. thence 1.4 mi. S. from, 1.3 mi. W. thence 2.5 mi. NW. from Damascus, near center of sec. 19, T. 28 N., R. 7 E., 100 ft. N. and 27 ft. E. from junction of rd. E., 2 ft. W. of fence, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "2 3 1934"-----	808.946
Damascus, 1.3 mi. W. thence 2.0 mi. NW. from, at Waddams Center School, 0.2 mi. E. of quarter corner between secs. 19 and 30, T. 28 N., R. 7 E., 45 ft. E. of center line of rd., 5 ft. N. of SW. corner of schoolhouse, at S. window, 3 ft. above ground; top of S. end of stone window sill-----	817.90
Damascus, 1.3 mi. W. thence 1.1 mi. NW. from, 0.14 mi. E. of N $\frac{1}{4}$ cor. sec. 31, T. 28 N., R. 7 E., in SW. angle of junction of rd. W., in line with fence along W. side of rd. N., in notch of three-forked boxelder tree; nail-----	776.27
Damascus, 1.3 mi. W. thence 0.5 mi. N. from, near E $\frac{1}{4}$ cor. sec. 31, T. 28 N., R. 7 E., 30 ft. W. of center line of rd., 12 ft. W. of fence, 4 ft. S. of E.-W. fence, in root of 30-in. oak tree; spike-----	854.58
Damascus, 1.3 mi. W. of, near SW. cor. sec. 32, T. 28 N., R. 7 E., at offset crossroads, 30 ft. N. and 5 ft. E. from junction of rd. S.; standard iron post with bronze cap stamped "Prim Trav Sta No 24 1911" <sup>a</sup> -----	845.173
Damascus, at W. end of bridge over Pecatonica River, at foot of W. end of S. truss, 10 in. below floor level, on N. rivet head of three rivets; chiseled cross-----	769.87

<sup>a</sup> In 1938 this bench mark was replaced by a standard tablet set 6 ft. south and 6 ft. west from this position, at an elevation 0.138 ft. higher than that originally determined. The figures given represent the new elevation.

# 1416 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Damascus, 0.7 mi. E. of, 1.2 mi. S. thence 1.3 mi. W. from Red Oak, 160 ft. E. of SW. cor. sec. 34, T. 28 N., R. 7 E., 30 ft. N. of rd., 3 ft. S. of fence, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "2 4 1934"-----	Feet 829.075
Red Oak, 1.2 mi. S. thence 0.8 mi. W. from, near S¼ cor. sec. 34, T. 28 N., R. 7 E., on N. side of rd., in root of 15-in. ash tree; nail-----	821.03
Red Oak, 1.2 mi. S. thence 0.2 mi. W. from, near W. cor. secs. 2 and 35, Tps. 27 and 28 N., R. 7 E., 0.2 mi. W. of R. R. crossing, at W. end of highway bridge over Richland Creek, on plate at foot of W. end of N. truss; chiseled cross-----	764.83

## 7. From point 1.3 miles west of Damascus west along road 1 mile (by F. C. Pinch in 1934)

Damascus, 1.7 mi. W. of, 0.15 mi. E. of S¼ cor. sec. 31, T. 28 N., R. 7 E., 0.3 mi. W. of junction of rd. S., 20 ft. N. of rd., in root of 24-in. oak tree; spike and washer-----	871.54
Damascus, 2.3 mi. W. of, near SW. cor. sec. 31, T. 28 N., R. 7 E., 30 ft. N. and 100 ft. E. from crossroads, at N. fence, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "2 5 1934"-----	842.648

[Continued in Lena quadrangle, line 4]

## 8. From point 2.3 miles west of Damascus south along range-line road to point on Illinois Central Railroad 0.5 mile east of Eleroy (by W. J. Drath in 1934)

Damascus, 2.3 mi. W. thence 0.4 mi. S. from, near W¼ cor. sec. 6, T. 27 N., R. 7 E., on E. side of rd., opposite and 45 ft. S. of quarter-section line fence W., in root of 14-in. wild-cherry tree; nail-----	894.97
Damascus, 2.3 mi. W. thence 1.0 mi. S. from, near W. cor. secs. 6 and 7, T. 27 N., R. 7 E., at offset crossroads, 25 ft. E. of center line of N-S. rd., on top of culvert under rd.; chiseled square-----	857.93
Damascus, 2.3 mi. W. thence 1.5 mi. S. from, near W¼ cor. sec. 7, T. 27 N., R. 7 E., on E. side of rd., 2 ft. E. of fence, 5 ft. N. of fence E., in root of 12-in. pine tree; nail-----	901.82
Damascus, 2.3 mi. W. thence 2.0 mi. S. from, 0.5 mi. E. thence 0.9 mi. N. from Eleroy, near SW. cor. sec. 7, T. 27 N., R. 7 E., 100 ft. N. and 30 ft. E. from junction of T-rd. E., 2 ft. W. of fence, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "2 6 1934"-----	886.592
Eleroy, 0.5 mi. E. thence 0.3 mi. N. from, 45 ft. N. of E¼ cor. sec. 13, T. 27 N., R. 6 E., on W. side of rd., at fence line, in root of 30-in. oak tree; nail-----	893.36
Eleroy, 0.5 mi. E. of, 0.15 mi. N. of S. cor. secs. 13 and 18, T. 27 N., Rs. 6 and 7 E., at I. C. R. R. crossing; top of N. rail of N. track-----	899.4

[Continued in Lena quadrangle, line 5]

## 9. From point 1.5 miles north and 3.9 miles east from Pearl City along roads generally south to point 1 mile north and 1 mile west from Bolton, thence alternately east and south to point 0.5 mile north and 0.5 mile east from Bolton (by W. J. Drath in 1934)

[Continued from Lena quadrangle, line 51]

Pearl City, 1.3 mi. N. and 4.2 mi. E. from, 0.25 mi. W. of N¼ cor. sec. 6, T. 26 N., R. 7 E., 150 ft. S. of junction of N-S. rd., on E. side of rd., in root of 30-in. willow tree; nail-----	932.91
---	--------

Pearl City, 0.8 mi. N. and 4.2 mi. E. from, 2.5 mi. N. and 0.8 mi. W. from Bolton, 0.25 mi. W. of center of sec. 6, T. 26 N., R. 7 E., 100 ft. N. and 26 ft. W. from junction of E.-W. rd., 2 ft. E. of fence, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "29 1934"-----	<i>Feet</i> 920.122
Bolton, 2.3 mi. N. and 1.0 mi. W. from, 0.3 mi. N. of SE. cor. sec. 1, T. 26 N., R. 6 E., 0.2 mi. S. of E.-W. rd., on S. end of W. head wall of concrete culvert; chiseled square-----	900.41
Bolton, 1.5 mi. N. and 1.0 mi. W. from, near W $\frac{1}{4}$ cor. sec. 7, T. 26 N., R. 7 E., 150 ft. N. of junction of T-rd. E., on E. side of rd., 4 ft. E. of fence, in root of 36-in. elm tree; nail-----	870.85
Bolton, 1.0 mi. N. and 1.0 mi. W. from, near cor. secs. 7, 12, 13, and 18, T. 26 N., Rs. 6 and 7 E., at right angle E. in rd., in root of 24-in. oak tree; nail-----	878.67

[Connects with line 4 in Forreston quadrangle]

# GALENA QUADRANGLE

[Latitude 42°15'–42°30'; longitude 90°15'–90°30']

## JO DAVIESS COUNTY

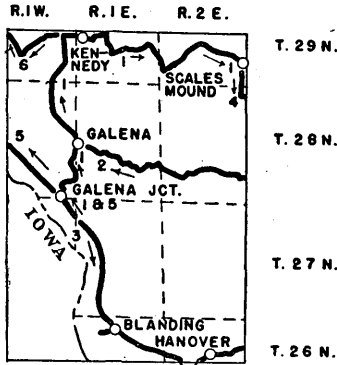


FIGURE 237.—Lines of leveling in Galena quadrangle.

1. From point 1.2 miles southeast of Galena Junction generally north along Chicago, Burlington & Quincy Railroad to Galena, thence north along Hazel Green road 6.8 miles, thence generally east along roads and Illinois Central Railroad to Scales Mound (by F. H. West in 1906; releveled by Henry Bücher in 1908)

Galena Junction, 1.2 mi. SE. of, about 650 ft. N. of old Aitken sta., 65 ft. E. of E. bank of Galena River, at foot of embankment on W. side of C. B. & Q. track; Mississippi River Comm. B. M. 175/1 (recovered in 1934)

cap on iron pipe-----	<i>Feet</i> 595.070
bolt in tile-----	591.060
Galena Junction, at C. B. & Q. drawbridge over Galena River, in SE. corner of cap on S. pier; aluminum tablet stamped "606" <sup>68</sup> -----	605.545
Galena, in NE. corner of C. B. & Q. R. R. sta. yard, 45 ft. from NE. corner of sta., at W. end of S. side of public bridge over Galena River; standard iron post with bronze cap stamped "603" <sup>69</sup> -----	602.698
Galena, 3.7 mi. NW. of, 0.2 mi. S. of N¼ cor. sec. 2, T. 28 N., R. 1 W., in NW. angle of Y-rd. junction, 300 ft. N. of old Four Mile House, in corner of field; standard iron post with bronze cap stamped "867" <sup>69</sup> -----	866.227
Galena, 6.8 mi. N. of, 1.0 mi. W. of Kennedy, 0.6 mi. N. and 4.6 mi. W. from Council Hill, 0.2 mi. E. of W¼ cor. sec. 24, T. 29 N., R. 1 W., in NE. angle of crossroads, in field, 3.5 ft. N. of E.-W. fence, 3 ft. E. of N.-S. fence; standard iron post with bronze cap stamped "929" (recovered in 1934)-----	928.197

<sup>68</sup> In 1934 this bench mark was replaced by a standard tablet set at an elevation 0.132 ft. lower than that originally determined. The figures given represent the new elevation.

<sup>69</sup> In 1934 this bench mark was reported destroyed.

Council Hill, 0.4 mi. N. and 2.2 mi. W. from, 0.8 mi. S. of Northwestern lead mine, in SW $\frac{1}{4}$ sec. 22, T. 29 N., R. 1 E., near Chicago & North Western Ry. crossing, 45 ft. N. of N. track, 30 ft. from rd., 1.5 ft. S. of board and wire fence; standard iron post with bronze cap stamped "670"-----	Feet 669.044
Council Hill, 3.1 mi. by rd. SW. of, near center of sec. 27, T. 29 N., R. 1 E., at NE. corner of rd. junction, about 900 ft. N. of church and graveyard; standard iron post with bronze cap stamped "Prim Trav Sta No 23 1906 864"-----	863.160
Council Hill, near N $\frac{1}{4}$ cor. sec. 25, T. 29 N., R. 1 E., at front of E. wing of Methodist Church, in stone foundation, 18 in. from E. end, 1 ft. above ground; aluminum tablet stamped "926"-----	925.030
Council Hill, 0.2 mi. N. and 2.7 mi. E. from, 2.6 mi. NE. of Council Hill Sta., 2.8 mi. NW. of Scales Mound, in SW $\frac{1}{4}$ sec. 21, T. 29 N., R. 2 E., 330 ft. W. of culvert over wagon rd., 2 ft. S. of N. right-of-way line of I. C. R. R.; standard iron post with bronze cap stamped "835" <sup>70</sup> -----	834.124
Scales Mound, 25 paces SW. of general store of James Allen, 22 paces N. of I. C. R. R. track, in center of small triangle; standard iron post with bronze cap stamped "948"-----	947.486

[Continued in Elizabeth quadrangle, line 1]

2. From point 3 miles west of Schapville generally west along roads to Galena (by Henry Bücher in 1908)

[Continued from Elizabeth quadrangle, line 2]

Schapville, 6.3 mi. W. of, 7.7 mi. SE. of Chicago, Burlington & Quincy R. R. sta. in Galena, in SW $\frac{1}{4}$ sec. 29, T. 28 N., R. 2 E., 570 ft. NE. of Y-rd. junction, on N. side of rd., in field, 2 ft. N. of fence; standard iron post with bronze cap stamped "1067"-----	1,065.700
Galena, 3.1 mi. SE. of, at Mount Hope School, near N. cor. secs. 26 and 27, T. 28 N., R. 1 E., at rd. junction, in SW. corner of school-yard, 4 ft. from edge of bank, 8.5 ft. SW. of 3-in. hard-maple tree; standard iron post with bronze cap stamped "834"-----	833.247
3. From Galena Junction southeast along Chicago, Burlington & Quincy Railroad to road crossing 2.3 miles southeast of Blanding, thence east along road to point 2 miles east of Hanover (by Henry Bücher in 1908)	
Galena Junction, 3.7 mi. SE. of, 4.4 mi. NW. of Blanding, about 0.15 mi. E. of center of sec. 16, T. 27 N., R. 1 E., in SW. angle of rd. crossing, 40 ft. W. of tracks, 8 ft. W. of right-of-way line; standard iron post with bronze cap stamped "614"-----	613.465
Blanding, 44 ft. W. of NW. corner of sta., 74 ft. NE. of NE. corner of post office, 44 ft. E. of E. corner of residence of Mrs. Botin, 2 ft. SW. of fence; standard iron post with bronze cap stamped "Prim Trav Sta No 27 1906 631"-----	630.802
Blanding, 1.0 mi. W. of, in SW $\frac{1}{4}$ sec. 4, T. 26 N., R. 1 E., 0.5 mi. E. of Mississippi River, 1.6 ft. from fence, in wagon rd. leading back from ferry landing opposite Bellevue, Iowa; Mississippi River Comm. B. M. 173/1 cap on iron pipe-----	( <sup>71</sup> )
bolt in tile-----	589.895

<sup>70</sup> In 1914 this bench mark was moved 86.5 ft. southwest of this position and reset at the same elevation.

<sup>71</sup> In 1908 it was reported that the iron pipe had been disturbed and was half filled with water.

# 1420 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Blanding, 2.2 mi. SE. of, 4.0 mi. W. of Hanover, in SW¼ sec. 12, T. 26 N., R. 1 E., in NE. angle of intersection of E.-W. rd., 4 ft. N. of fence, 5 ft. NE. of right-of-way fence; standard iron post with bronze cap stamped "626" <sup>72</sup> -----	<i>Feet</i> 625.743
Hanover, at SW. corner of Hanover Hotel; standard iron post with bronze cap stamped "Prim Trav Sta No 28 1906 632" <sup>73</sup> -----	630.745

[Continued in Elizabeth quadrangle, line 3]

4. From Scales Mound along roads south 1.7 miles, thence east 0.2 mile (by Henry Bücher in 1908)

Scales Mound, 93 ft. NW. of corner of porch of Presbyterian Church, 51 ft. E. of SE. corner of Catholic Church, 70 ft. SW. of SE. corner of porch of schoolhouse, in SW. corner of schoolyard, 3 ft. N. of wooden sidewalk; standard iron post with bronze cap stamped "Prim Trav Sta No 17 1906 956"-----	955.121
--	---------

[Continued in Elizabeth quadrangle, line 4]

5. From point 1.2 miles southeast of Galena Junction northwest 5 miles along Chicago, Burlington & Quincy Railroad (by S. R. Archer in 1934)

Galena Junction, 0.4 mi. SE. of sta., between C. B. & Q. R. R. and Chicago Great Western Ry. tracks, at W. end of stone culvert under C. G. W. Ry., on N. end of E. head wall of concrete culvert 171-22 under C. B. & Q. R. R.; chiseled square-----	605.72
Galena Junction, 240 ft. SE. of SE. pier of C. B. & Q. R. R. draw-bridge over Galena River, 25 ft. NW. of W. corner of sta., on NE. side of tracks and sta. platform, 8 ft. S. of W. corner of lawn, on N. corner of concrete base of semaphore signal; chiseled square <sup>74</sup> ----	610.92
Galena Junction, 0.7 mi. NW. of, 120 ft. SE. of tower, on NE. side of C. B. & Q. tracks, at NE. column of steel semaphore bridge, on N. corner of NW. end of concrete base; chiseled square-----	607.72
Galena Junction, 1.5 mi. NW. of, at Gears Ferry, 120 ft. NE. of rd. crossing, on NW. side of rd., on SW. side of private driveway to residence, in root on W. side of 18-in. ash tree; copper nail and washer----	605.44
Galena Junction, 2.0 mi. NW. of, 0.5 mi. NW. of Gears Ferry rd. crossing, 492 ft. NE. of bank of slough, 138 ft. below 36-in. iron pipe culvert under C. B. & Q. R. R., 49 ft. NE. of edge of cultivated field, 3½ rail lengths above farm crossing, 26 ft. SW. and 6 ft. lower than center of SW. track, 4 ft. NE. of SW. right-of-way fence, 5 ft. NE. of line of telegraph poles; Mississippi River Comm. B. M. 176/1 cap on iron pipe-----	599.690
bolt in tile-----	595.680
Reference mark, 120 ft. SE. of iron pipe, 35 ft. SW. of SW. right-of-way fence, in field, in root on NW. side of 36-in. oak tree with large triangular blaze; copper nail and washer-----	601.11
Galena Junction, 2.7 mi. NW. of, 190 ft. SE. of milepost C-171 O-345, opposite semaphore W-1702, on NE. side of tracks, 2.5 ft. above base of track relay box, on top of ledge of rock outcrop; chiseled square--	612.60

<sup>72</sup> In 1934 this bench mark was reported destroyed.

<sup>73</sup> In 1930 this bench mark was moved 5 ft. south and 52 ft. west from this position and reset at an elevation 0.925 ft. lower than that originally determined. The figures given represent the new elevation.

<sup>74</sup> Established as a reference mark to standard tablet stamped "606," described in line 1.

Galena Junction, 3.4 mi. NW. of, 55 ft. NE. of rd. crossing, on NW. side of rd., at NE. right-of-way line, 10 ft. NW. of crossing sign, on top of ledge of rock outcrop; chiseled square----- *Feet*  
615.32

[Continued in East Dubuque quadrangle, line 2]

6. From crossroads 1 mile west of Kennedy along roads southwest and northwest to point 2.2 miles northeast of Menominee (by S. R. Archer in 1934)

Kennedy, 1.0 mi. W. of, 6.8 mi. along Hazel Green rd. N. of Galena, 0.2 mi. E. of W $\frac{1}{4}$  cor. sec. 24, T. 29 N., R. 1 W., in SW. angle of crossroads, on W. end of S. angular concrete head wall of culvert under rd. W.; chiseled square<sup>75</sup>----- 927.89

Kennedy, 1.2 mi. W. of, near quarter corner between secs. 23 and 24, T. 29 N., R. 1 W., 0.2 mi. W. of crossroads, on W. end of N. head wall of concrete culvert; chiseled square----- 887.70

Kennedy, 2.2 mi. W. of, 0.15 mi. S. of quarter corner between secs. 22 and 23, T. 29 N., R. 1 W., at SW. end of curve SW. in rd., on W. side of rd., 40 ft. S. of gate to pasture, 45 ft. N. of fence line W., in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "876"----- 875.730

T. 29 N., R. 1 W., 0.12 mi. N. of quarter corner between secs. 27 and 28, at steel bridge over Sinsinawa River, 5 ft. SE. of E. end of S. truss, on concrete wing wall; chiseled square----- 665.22

T. 29 N., R. 1 W., in SE $\frac{1}{4}$  sec. 28, 0.2 mi. S. of schoolhouse No. 3, at Bodell's Four Corners, on S. side of rd. junction; standard iron post with bronze cap stamped "Prim Trav Sta No 25 1903 C58"----- 658.400

T. 29 N., R. 1 W., in SW $\frac{1}{4}$  sec. 21, 0.5 mi. N. and 1.7 mi. E. from Menominee, 0.5 mi. SE. of rd. junction, 0.2 mi. SE. of junction of private rd. N., 200 ft. along rd. SE. of front of farmhouse on N. side of rd., on NE. side of rd., at fence line, in root on SW. side of 24-in. oak tree; copper nail and washer----- 857.91

[Continued in East Dubuque quadrangle, line 3]

<sup>75</sup> Established as a reference mark to standard iron post with bronze cap stamped "929," described in line 1

# GENESEO QUADRANGLE

[Latitude 11°15'–41°30'; longitude 90°00'–90°15']

## HENRY COUNTY

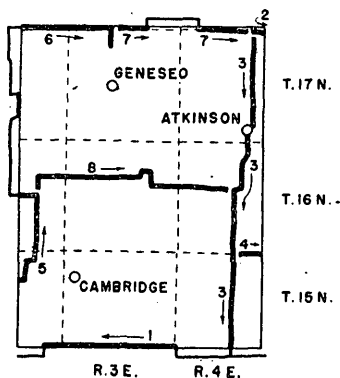


FIGURE 233.—Lines of leveling in Geneseo quadrangle.

1. From crossroads near west corner secs. 30 and 31, T. 15 N., R. 4 E., west along road by way of Pleasant Valley Church to road junction near west corner secs. 25 and 36, T. 15 N., R. 2 E. (by H. S. Senseney in 1927)

[A jog from Galva quadrangle, line 1]

Pleasant Valley Church and School, 3.0 mi. E. of, 30 ft. N. and 24 ft. E. from W. cor. secs. 30 and 31, T. 15 N., R. 4 E., in NE. angle of crossroads, at fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 124 K 1924"	Feet 801.213
Reference mark, 560 ft. W. of tablet, at gate, in root of tree; copper nail and washer	809.12
Pleasant Valley School, 2.0 mi. E. of, near SW. cor. sec. 25, T. 15 N., R. 3 E., in NE. angle of crossroads, in root of tree; copper nail and washer	789.35
Pleasant Valley School, 1.0 mi. E. of, near NE. cor. sec. 34, T. 15 N., R. 3 E., in SW. angle of crossroads, on culvert; chiseled square	744.08
Pleasant Valley School, near NE. cor. sec. 33, T. 15 N., R. 3 E., 37 ft. S. and 34 ft. W. from crossroads, 130 ft. E. of schoolhouse, in NE. corner of schoolyard, in concrete post; standard tablet stamped "Prim Trav Sta No 123 K 1924"	756.937
Reference mark, 230 ft. E. of tablet, on SE. corner of culvert; chiseled square	756.76
Pleasant Valley School, 1.0 mi. W. of, near SW. cor. sec. 28, T. 15 N., R. 3 E., in NE. angle of crossroads, in root of tree; copper nail and washer	780.55
Pleasant Valley School, 2.0 mi. W. of, at Excelsior School, 3.5 mi. S. and 0.5 mi. E. from Cambridge, near NW. cor. sec. 32, T. 15 N., R. 3 E., in SE. angle of crossroads, on W. side of entrance to schoolhouse, on lower step; chiseled square	735.60

Excelsior School, 1.0 mi. W. of, 3.5 mi. S. and 0.5 mi. W. from Cambridge, near NW. cor. sec. 31, T. 15 N., R. 3 E., at offset crossroads, on E. side of range-line rd., 8 ft. N. of center line of rd. W., in concrete post; standard tablet stamped "Prim Trav Sta No 122 K 1924"-----	Feet 747.140
Reference mark, 65 ft. SW. of tablet, on culvert; chiseled square----	748.29

[Continued in Galva quadrangle, line 1]

2. From point 5.7 miles north of Atkinson south and east along roads on west and south sides of sec. 35, T. 18 N., R. 4 E. (by J. A. Shumate in 1927)

[Continued from Joslin quadrangle, line 7]

Atkinson, 5.5 mi. N. of, near NW. cor. sec. 2, T. 17 N., R. 4 E., 27 ft. S. and 34 ft. E. from crossroads, in concrete post; standard tablet stamped "T T Sta No 125 JLS 1927" (recovered in 1930)---	608.916
Reference mark, 8 ft. E. of tablet, 7 in. underground; top of iron bar (recovered in 1930)-----	607.84

[Continued in Prophetstown quadrangle, line 6]<sup>70</sup>

3. From crossroads 5.5 miles north of Atkinson along roads generally south to point near south corner secs. 27 and 28, T. 15 N., R. 4 E. (by F. K. Van Zandt in 1929; releveled to point 2.8 miles north of Atkinson by M. W. Clark in 1930)

Atkinson, 4.5 mi. N. of, near NE. cor. sec. 10, T. 17 N., R. 4 E., 20 ft. S. and 30 ft. W. from junction of T-rd. W., on W. head wall of concrete culvert; chiseled square-----	607.08
Atkinson, 4.0 mi. N. of, near W $\frac{1}{4}$ cor. sec. 11, T. 17 N., R. 4 E., at bridge over Green River, on E. end of S. bridge seat; chiseled square-----	607.84
Atkinson, 3.5 mi. N. of, near SW. cor. sec. 11, T. 17 N., R. 4 E., 400 ft. N. and 30 ft. E. from junction of T-rd. W., in root of maple tree; copper nail and washer-----	617.21
Atkinson, 2.8 mi. N. of, at Bass School, 0.25 mi. N. of SE. cor. sec. 15, T. 17 N., R. 4 E., 135 ft. S. and 40 ft. W. from crossroads, in NE. corner of schoolyard, in concrete post; standard tablet stamped "T T Sta No 145 JLS 1927"-----	626.680
Reference mark 1, 26 ft. S. of tablet, in front of steps to schoolhouse, on concrete slab; chiseled square-----	624.62
Reference mark 2, 355 ft. NE. of tablet, on E. side of rd., on top of S. end of culvert under driveway to dwelling; chiseled square----	613.93
Atkinson, 2.0 mi. N. of, near quarter corner between secs. 22 and 23, T. 17 N., R. 4 E., at highway bridge over canal, at W. end of N. concrete abutment, in lower step; bronze tablet stamped "Illinois and Mississippi Canal Bench Mark 40.8 A"-----	622.361
Atkinson, 2.0 mi. N. of, near quarter corner between secs. 22 and 23, T. 17 N., R. 4 E., at highway bridge over canal, at W. end of S. concrete abutment, in lower step; bronze tablet stamped "Illinois and Mississippi Canal Bench Mark 40.8 B"-----	622.367
Reference mark, on E. parapet of S. abutment of bridge; chiseled square-----	630.18
Atkinson, 1.2 mi. N. of, 0.25 mi. N. of quarter corner between secs. 26 and 27, T. 17 N., R. 4 E., at junction of private rd. W., on W. wing wall of culvert; chiseled square-----	614.73

<sup>70</sup> This line crosses the northwest corner of Annawan quadrangle but no bench marks were established along that portion of the line.

# 1424 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Atkinson, in S. part of town, about 600 ft. S. of highway junction, at NW. corner of property of Peter Bertcroft, 20 ft. S. and 35 ft. E. from junction of T-street E., in concrete post; standard tablet stamped "T T Sta No 146 JLS 1927" (recovered by U. S. C. & G. S. in 1935)-----	Feet 666.583
Atkinson, 1.3 mi. S. of, 0.35 mi. NE. of S¼ cor. sec. 3, T. 16 N., R. 4 E., on SE. side of rd. at turn from S. to SW., in root of tree; copper nail and washer-----	736.78
Atkinson, 2.1 mi. S. of, at Grove School, near center of sec. 10, T. 16 N., R. 4 E., at entrance to schoolhouse, on second concrete step; chiseled square-----	750.15
Atkinson, 0.7 mi. W. thence 3.0 mi. S. from, near W¼ cor. sec. 15, T. 16 N., R. 4 E., 27 ft. S. and 45 ft. E. from crossroads, in concrete post; standard tablet stamped "T T Sta No 147 JLS 1927" (recovered in 1930)-----	675.490
Reference mark, 350 ft. E. of tablet, on N. wing wall of culvert; chiseled square (recovered in 1930)-----	678.16
Atkinson, 0.7 mi. W. thence 3.6 mi. S. from, 0.15 mi. S. of N. cor. secs. 21 and 22, T. 16 N., R. 4 E., on E. end of S. abutment of small concrete bridge; chiseled square-----	663.78
Atkinson, 0.7 mi. W. thence 4.4 mi. S. from, 0.12 mi. N. of S. cor. secs. 21 and 22, T. 16 N., R. 4 E., on E. end of S. abutment of small concrete bridge; chiseled square-----	661.01
Atkinson, 0.7 mi. W. thence 5.0 mi. S. from, near E¼ cor. sec. 28, T. 16 N., R. 4 E., 30 ft. N. of crossroads, on W. end of culvert; chiseled square-----	676.33
Atkinson, 0.7 mi. W. thence 6.0 mi. S. from, near W¼ cor. sec. 34, T. 16 N., R. 4 E., 30 ft. S. of E-W. fence, 30 ft. E. of rd., in root of 18-in. oak tree; copper nail and washer-----	706.12
Atkinson, 0.7 mi. W. thence 6.5 mi. S. from, 3.5 mi. N. of Whitney School, 3.0 mi. W. of Union School, near SW. cor. sec. 34, T. 16 N., R. 4 E., 35 ft. N. and 25 ft. E. from crossroads, in concrete post; standard tablet stamped "T T Sta No 148 JLS 1927"-----	750.113
Reference mark, 480 ft. S. of tablet, 30 ft. E. of rd., in root of 20-in. oak tree; copper nail and washer-----	754.14
Whitney School, 2.5 mi. N. of, near NE. cor. sec. 9, T. 15 N., R. 4 E., at junction of T-rd. W., on SW. end of concrete culvert; chiseled square-----	748.37
Whitney School, 1.9 mi. N. of, 0.1 mi. S. of W¼ cor. sec. 10, T. 15 N., R. 4 E., on S. abutment of small bridge; chiseled square-----	716.43
Whitney School, 0.5 mi. N. of, near W. cor. secs. 15 and 22, T. 15 N., R. 4 E., 500 ft. SE. of De Clerg dwelling, 20 ft. E. of rd., in line with E-W. fence, in concrete post; standard tablet stamped "T T Sta No 149 JLS 1927" <sup>77</sup> -----	763.643
Whitney School, near E¼ cor. sec. 21, T. 15 N., R. 4 E., 190 ft. N. and 20 ft. W. from crossroads, in schoolyard, in root of large oak tree; copper nail and washer-----	799.12
Whitney School, 1.2 mi. S. of, 0.15 mi. S. of W¼ cor. sec. 27, T. 15 N., R. 4 E., 800 ft. S. and 30 ft. E. from crossroads, in root of pine tree; copper nail and washer-----	825.76

<sup>77</sup> In 1939 this bench mark was moved 13.2 ft. N. 87°50' E. from this position and reset at the same elevation.

[Connects with line 1 in Galva quadrangle]

4. From crossroads near south corner secs. 33 and 34, T. 16 N., R. 4 E., east along township-line road 1.6 miles to point 1.4 miles west of Union School (by F. K. Van Zandt in 1929)

T. 16 N., R. 4 E., 0.1 mi. W. of S $\frac{1}{4}$  cor. sec. 35, 1.6 mi. W. of Union School, 30 ft. N. of rd., in root of locust tree; copper nail and washer ----- Feet  
708.47

[Continued in Annawan quadrangle, line 7]

5. From point 3 miles west of Cambridge along roads alternately east and north to crossroads at quarter corner between secs. 14 and 23, T. 16 N., R. 2 E., thence west 1 mile to point 0.5 mile east of Osco Center School (by S. R. Archer in 1930)

[A jog from Orion quadrangle, line 6]

Cambridge, 2.6 mi. W. of, 0.5 mi. N. and 2.5 mi. E. from Andover, near E $\frac{1}{4}$  cor. sec. 10, T. 15 N., R. 2 E., 50 ft. N. and 30 ft. W. from crossroads, in fence corner, in concrete post; standard tablet stamped "T T 149 F 1929" ----- 754.248

Reference mark, 150 ft. W. of crossroads, at concrete culvert, on top of E. end of N. head wall; chiseled square ----- 754.03

Cambridge, 2.6 mi. W. thence 1.0 mi. N. from, near W $\frac{1}{4}$  cor. sec. 2, T. 15 N., R. 2 E., 20 ft. S. and 30 ft. E. from junction of T-rd. E., in root on S. side of 24-in. maple tree; copper nail and washer ----- 779.41

Cambridge, 2.7 mi. NW. of, at Griffin School, near center of sec. 2, T. 15 N., R. 2 E., 35 ft. N. and 35 ft. E. from junction of T-rd. N., in SW. corner of schoolyard, in root on SW. side of 48-in. cottonwood tree; copper nail and washer ----- 783.31

Griffin School, 1.0 mi. N. of, 1.5 mi. S. of Grace Church, near center of sec. 35, T. 16 N., R. 2 E., 5 ft. S. and 30 ft. W. from junction of T-rd. E., in root on E. side of 48-in. tree, northernmost of two cottonwood trees standing 15 ft. apart; copper nail and washer ----- 757.40

Grace Church, 1.0 mi. S. of, near S $\frac{1}{4}$  cor. sec. 26, T. 16 N., R. 2 E., 375 ft. N. and 30 ft. W. from junction of T-rd. W., 65 ft. N. and 30 ft. W. from crossing of Chicago, Rock Island & Pacific Ry., in concrete post; standard tablet stamped "T T 148 F 1929" ----- 756.653

Grace Church, across rd. from, near S $\frac{1}{4}$  cor. sec. 23, T. 16 N., R. 2 E., 100 ft. N. of crossroads, on E. side of rd., in root on W. side of 48-in. maple tree; copper nail and washer ----- 786.12

Grace Church, 1.0 mi. N. of, 1.5 mi. E. of Osco Center School, near S $\frac{1}{4}$  cor. sec. 14, T. 16 N., R. 2 E., 290 ft. W. of crossroads, on N. side of rd., on E. side of driveway, in root on SE. side of 40-in. tree, easternmost in row of maple trees; copper nail and washer ----- 777.34

[Continued in Orion quadrangle, line 6]

6. From point near Hanna Center School east along township-line road 4.8 miles to junction of State Highway 82, thence south 1.2 miles along highway to point 2 miles north of Geneseo (by S. R. Archer in 1930; last 1.2 miles leveled twice)

[Continued from Orion quadrangle, line 6]

Hanna Center School, 1.0 mi. E. of, 1.0 mi. W. of Bernard School, near S $\frac{1}{4}$  cor. sec. 35, T. 18 N., R. 2 E., in NW. angle of crossroads, 11 ft. SE. of SE. corner of yard, in root on E. side of 30-in. oak tree; copper nail and washer ----- 685.95

Bernard School, 0.5 mi. W. of, 0.14 mi. E. of NW. cor. sec. 1, T. 17 N., R. 2 E., on top of E. end of S. head wall of concrete culvert; chiseled square ----- 615.24

# 1426 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Bernard School, near N¼ cor. sec. 1, T. 17 N., R. 2 E., on S. side of rd., 170 ft. W. of N.-S. fence, 1 ft. N. and 3 ft. W. from NW. corner of schoolyard, in concrete post; standard tablet stamped "T T 139 F 1929"-----	<i>Feet</i> 617.119
Bernard School, 0.5 mi. E. of, near SE. cor. sec. 36, T. 18 N., R. 2 E., in NW. angle of crossroads, on top of S. end of W. concrete coping of bridge; chiseled square-----	618.82
Bernard School, 1.4 mi. E. of, 1.0 mi. W. of Wolf School, 0.15 mi. W. of SE. cor. sec. 31, T. 18 N., R. 3 E., 0.1 mi. E. of junction of T-rd. N., on N. side of rd., in root on S. side of 30-in. hackberry tree; copper nail and washer-----	603.52
Wolf School, 0.25 mi. W. of SE. cor. sec. 32, T. 18 N., R. 3 E., in NE. angle of junction of T-rd. N., at entrance to schoolhouse, on top of E. end of top concrete step; chiseled square-----	621.78
Wolf School, 0.5 mi. E. of, 3.2 mi. N. of Geneseo, 0.25 mi. E. of SW. cor. sec. 33, T. 18 N., R. 3 E., 35 ft. N. and 50 ft. W. from crossroads, 1 ft. S. and 18 ft. W. from fence corner, in concrete post; standard tablet stamped "T T 138 F 1929"-----	612.302
Geneseo, 2.5 mi. N. of, 0.15 mi. S. and 0.25 mi. W. from center of sec. 4, T. 17 N., R. 3 E., at N. abutment of highway bridge over Green River, on E. concrete wing wall; chiseled square-----	601.17
Geneseo, 2.0 mi. N. of, 0.15 mi. S. and 0.25 mi. W. from N¼ cor. sec. 9, T. 17 N., R. 3 E., at highway bridge over canal, at W. end of N. concrete abutment, in top of lower step; bronze tablet stamped "Illinois and Mississippi Canal Bench Mark 49.2 A"-----	611.029
Geneseo, 2.0 mi. N. of, 0.15 mi. S. and 0.25 mi. W. from N¼ cor. sec. 9, T. 17 N., R. 3 E., at highway bridge over canal, at W. end of S. concrete abutment, in top of lower step; bronze tablet stamped "Illinois and Mississippi Canal Bench Mark 49.2 B"-----	610.519
7. From State Highway 82 at point 3.2 miles north of Geneseo east along township-line road to crossroads 5.5 miles north of Atkinson (by S. R. Archer in 1930)	
Geneseo, 3.2 mi. N. thence 0.8 mi. E. from, 0.5 mi. W. of Bunker Hill School, near NE. cor. sec. 4, T. 17 N., R. 3 E., 30 ft. S. and 80 ft. W. from junction of T-rd. N., in root on W. side of 24-in. wild-cherry tree; copper nail and washer-----	633.68
Bunker Hill School, about 300 ft. E. of, near S¼ cor. sec. 34, T. 18 N., R. 3 E., 380 ft. E. of crossroads, on N. side of rd., in root on S. side of forked maple tree; copper nail and washer-----	654.03
[Jogs into Joslin quadrangle, line 8]	
T. 18 N., R. 4 E., near SW. cor. sec. 32, 3.5 mi. in air line E. of Bunker Hill School, 160 ft. E. of right-angle turn from N. to E. in rd., 20 ft. N. and 3 ft. E. from junction of T-rd. S., in concrete post; standard tablet stamped "T T 136 F 1929"-----	613.563
T. 18 N., R. 4 E., near SE. cor. sec. 32, 55 ft. N. of crossroads, on W. side of rd., at fence line, in root on SW. side of 24-in. willow tree; copper nail and washer-----	612.36
T. 17 N., R. 4 E., 0.25 mi. E. of NW. cor. sec. 3, 5.5 mi. N. thence 0.8 mi. W. from Atkinson, at bridge over drainage ditch, on SE. corner at S. end of W. concrete abutment; chiseled square-----	611.93

8. From crossroads at quarter corner between secs. 14 and 23, T. 16 N., R. 2 E., 1 mile north of Grace Church, north 1 mile, thence generally east along roads to crossroads 3 miles south and 0.7 mile west from Atkinson (by M. W. Clark in 1930)

Grace Church, 2.0 mi. N. of, near N $\frac{1}{4}$ cor. sec. 14, T. 16 N., R. 2 E., 30 ft. S. and 50 ft. W. from crossroads, in root on E. side of 30-in. maple tree; copper nail and washer-----	<i>Feet</i> 752.36
T. 16 N., R. 2 E., 300 ft. E. of SW. cor. sec. 12, at concrete bridge, on N. coping, 1 ft. from E. end; chiseled square-----	711.93
T. 16 N., R. 2 E., 25 ft. S. and 25 ft. W. from E. cor. secs. 12 and 13, 30 ft. S. and 35 ft. W. from junction of range-line rd. N., in concrete post; standard tablet stamped "T T 130 F 1929"-----	752.678
T. 16 N., R. 3 E., near N $\frac{1}{4}$ cor. sec. 18, 25 ft. S. and 35 ft. W. from junction of T-rd. S., in root on N. side of 24-in. maple tree; copper nail and washer-----	756.21
T. 16 N., R. 3 E., 0.1 mi. W. of NE. cor. sec. 18, 500 ft. W. of junction of T-rd. S., 15 ft. W. of E. end of S. concrete coping of large bridge; chiseled square-----	713.92
T. 16 N., R. 3 E., near NW. cor. sec. 16, 30 ft. S. and 50 ft. E. from intersection of State Highway 82, in root on NW. side of 24-in. maple tree; copper nail and washer-----	760.70
T. 16 N., R. 3 E., near SW. cor. sec. 10, 27 ft. N. and 45 ft. E. from crossroads, in concrete post; standard tablet stamped "T T 129 F 1929"-----	765.588
Reference mark, 140 ft. SW. of tablet, in 12-in. walnut tree; copper nail and washer-----	765.96
T. 16 N., R. 3 E., near SW. cor. sec. 11, 20 ft. N. and 40 ft. E. from junction of T-rd. W., inside fence, in root on W. side of 24-in. white-oak tree; copper nail and washer-----	748.96
T. 16 N., R. 3 E., near center of sec. 14, 65 ft. N. and 15 ft. E. from right-angle turn from N. to E. in rd., in root on W. side of 30-in. cottonwood tree; copper nail and washer-----	729.17
T. 16 N., R. 3 E., near W $\frac{1}{4}$ cor. sec. 13, 30 ft. S. and 90 ft. E. from junction of T-rd. S., inside fence, in root on NW. side of 15-in. maple tree; copper nail and washer-----	741.93
T. 16 N., R. 3 E., near E $\frac{1}{4}$ cor. sec. 13, at bridge over Spring Creek, on NE. wing wall, 6 ft. from NE. end; chiseled square-----	646.33
T. 16 N., R. 4 E., 0.25 mi. W. of center of sec. 18, 30 ft. S. and 63 ft. E. from junction of T-rd. S., in concrete post; standard tablet stamped "T T 128 F 1929"-----	709.163
T. 16 N., R. 4 E., near E $\frac{1}{4}$ cor. sec. 18, 360 ft. W. of crossroads, on N. side of rd., on small culvert; chiseled square-----	673.70
T. 16 N., R. 4 E., 0.1 mi. W. of center of sec. 17, on S. side of rd., on large concrete culvert; chiseled square-----	708.26
T. 16 N., R. 4 E., 0.16 mi. E. of W $\frac{1}{4}$ cor. sec. 16, 3.0 mi. S. and 1.6 mi. W. from Atkinson, 850 ft. E. of crossroads, on W. end of S. coping of bridge; chiseled square-----	692.42

# GENEVA QUADRANGLE

[Latitude 41°45'–42°00'; longitude 88°15'–88°30']

COOK, DU PAGE, AND KANE COUNTIES

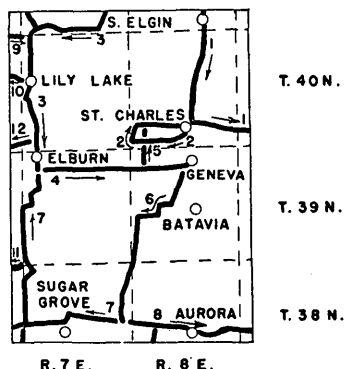


FIGURE 239.—Lines of leveling in Geneva quadrangle.

1. From South Elgin south along Aurora, Elgin & Fox River electric railway to St. Charles, thence southeast along Chicago Great Western Railway to point 3 miles east of St. Charles (by W. A. Gelbach in 1907)

[Continued from Elgin quadrangle, line 1]

South Elgin, in S. part of, 1.2 mi. N. of Coleman, in SE. angle of crossing of E.-W. street, 0.15 mi. W. of bridge over Fox River, 40 ft. E. of track, 15 ft. N. of board fence, in concrete post; aluminum tablet stamped "1907 707"	<i>Feet</i> 707.068
Coleman, 1.2 mi. S. of sta., at Riverview Farm of Smith Young & Son, 50 ft. W. of track, on N. side of rd., in concrete post; aluminum tablet stamped "1907 788"	788.032
Coleman, 3.3 mi. S. of, 1.1 mi. N. of St. Charles, in N. angle of junction of rd. and electric railway tracks, opposite NE. corner of cemetery, in concrete post; aluminum tablet stamped "1907 787"	786.612
St. Charles, street crossing just E. of C. G. W. Ry. sta.; top of N. rail	730.1
St. Charles, 2.2 mi. E. of sta., at crossing of Du Page-Kane county-line rd., 80 ft. N. of track, on E. side of rd., in concrete post; aluminum tablet stamped "1907 755"	754.960

[Connects with line 1 in Wheaton quadrangle]

2. From St. Charles southwest and west along road to State School for Boys, thence north and east to St. Charles (by W. A. Gelbach in 1907)

St. Charles, 2.8 mi. SW. of, in E. part of farm of State School for Boys, in NE. angle of crossroads, near fence, in concrete post; aluminum tablet stamped "1907 742"	741.658
--	---------

State School for Boys, in water table of E. wall of schoolhouse, 3 ft. from NE. corner; aluminum tablet stamped "1907 802"-----	Feet 801.447
State School for Boys, opposite office, 6 ft. S. of sidewalk, level with ground, in concrete post; aluminum tablet stamped "1907 794"-----	793.853
State School for Boys, near NE. corner of farm, 2.5 mi. W. of St. Charles, in SW. angle of junction of rd. S., opposite Red Brick School, 4 ft. W. of fence corner, in concrete post; aluminum tablet stamped "1907 737" (recovered in 1923)-----	737.036
St. Charles, at NW. corner of intersection of West Main and Weeks Streets, in concrete post; aluminum tablet stamped "1907 749"-----	749.158
3. From point 0.5 mile south and 0.5 mile west from Bowes along roads alternately south and west to crossroads 0.7 mile south of Elburn (by S. R. Archer in 1923)	
[Continued from Elgin quadrangle, line 6]	
Bowes, 0.6 mi. S. and 0.5 mi. W. from, 0.5 mi. N. and 3.0 mi. W. from Youngsdale, 0.9 mi. NE. of Plato Corners, 0.25 mi. W. of NE. cor. sec. 35, T. 41 N., R. 7 E., on W. side of rd., 75 ft. S. of section line, inside fence, in root on SW. side of 10-in. hickory tree; copper nail and washer-----	867.11
Plato Corners, 30 ft. S. and 50 ft. E. from crossroads, 0.18 mi. N. of S $\frac{1}{4}$ cor. sec. 35, T. 41 N., R. 7 E., 25 ft. E. of fence corner, inside fence, in root 4 in. underground on SW. side of 14-in. boxelder tree; copper nail and washer-----	856.86
Plato Corners, 1.0 mi. W. of, 0.22 mi. N. of S $\frac{1}{4}$ cor. sec. 34, T. 41 N., R. 7 E., 25 ft. S. and 20 ft. W. from junction of private rd. S., at fence corner; standard iron post with bronze cap stamped "2 A 1923"-----	869.657
Reference mark, 85 ft. S. and 65 ft. W. from rd. junction, in wood lot, in root on SE. side of 24-in. oak tree; copper nail and washer--	870.96
Plato Corners, 1.8 mi. W. of, in SE $\frac{1}{4}$ sec. 33, T. 41 N., R. 7 E., 110 ft. S. and 35 ft. E. from crossroads, 10 ft. E. of fence, in pasture, in root on W. side of 15-in. oak tree; copper nail and washer-----	938.60
Plato Corners, 2.7 mi. W. of, 0.15 mi. S. of W $\frac{1}{4}$ cor. sec. 33, T. 41 N., R. 7 E., 50 ft. N. and 40 ft. E. from junction of rd. N., in field, in root on W. side of 15-in. ash tree; copper nail and washer-----	936.33
Plato Corners, 3.2 mi. W. of, near center of sec. 32, T. 41 N., R. 7 E., in NE. angle of junction of rd. N., in fence corner, in root on SW. side of 18-in. maple tree; copper nail and washer-----	997.94
Plato Corners, 3.7 mi. W. of, 2.8 mi. N. and 0.3 mi. E. from Lily Lake, near W $\frac{1}{4}$ cor. sec. 32, T. 41 N., R. 7 E., in NW. angle of crossroads, 3 ft. N. of fence corner, in concrete post; standard tablet stamped "3 A 1923"-----	1,007.548
Reference mark, in NE. angle of crossroads, on top of W. end of N. concrete head wall of tile drain under rd. E.; chiseled square----	1,008.54
Lily Lake, 2.4 mi. N. of, 0.25 mi. W. of SE. cor. sec. 31, T. 41 N., R. 7 E., 28 ft. N. and 50 ft. W. from junction of T-rd. W., in root on SE. side of 12-in. locust tree; copper nail and washer-----	1,009.59
Lily Lake, 1.6 mi. N. of, near center of SE $\frac{1}{4}$ sec. 6, T. 40 N., R. 7 E., in NE. angle of junction of T-rd. E., on top of W. end of N. concrete head wall of culvert under rd. E.; chiseled square-----	927.66
Lily Lake, 0.9 mi. N. of, 0.25 mi. E. of center of sec. 7, T. 40 N., R. 7 E., 15 ft. S. and 35 ft. E. from junction of T-rd. W., in SW. corner of yard of dwelling, in root on SW. side of 12-in. locust tree; copper nail and washer-----	959.10

# 1430 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Lily Lake, 550 ft. N. of crossroads, on W. side of rd., in NE. corner of schoolyard, in concrete post; standard tablet stamped "4 A 1923"-----	Feet 960.755
Reference mark, 550 ft. S. of tablet, in NE. angle of crossroads, in front of store, 3.5 ft. W. of gasoline pump, on top of W. end of concrete curb; chiseled square-----	962.11
Lily Lake, 1.0 mi. SW. of, in NW¼ sec. 19, T. 40 N., R. 7 E., on SW. side of rd., 160 ft. SE. of junction of rd. NE., 3 ft. S. of fence, in field, in root on N. side of 15-in. oak tree; copper nail and washer-----	882.27
Lily Lake, 1.9 mi. S. of, 2.4 mi. N. of Elburn, 0.23 mi. W. of SE. cor. sec. 19, T. 40 N., R. 7 E., 30 ft. N. and 85 ft. E. from crossroads, in root 4 in. underground on SW. side of 14-in. cherry tree; copper nail and washer-----	917.36
Elburn, 1.6 mi. N. of, 0.25 mi. N. of SE. cor. sec. 29, T. 40 N., R. 7 E., on E. head wall of concrete culvert; chiseled square-----	891.42
Elburn, 0.8 mi. N. of, near W¼ cor. sec. 32, T. 40 N., R. 7 E., in NE. angle of intersection of U. S. Highway 30 and State Highway 47, 5 ft. N. of fence corner, in concrete post; standard tablet stamped "5 A 1923"-----	906.665
Reference mark, 110 ft. S. of intersection on W. side of State Highway 47, on top of concrete head wall at S. end of tile drain; chiseled square-----	909.46
Elburn, on W. side of Main Street, at entrance to Kane County Bank, on S. end of stone doorsill; chiseled square-----	855.38
Elburn, on E. side of Main Street, 110 ft. N. of main tracks of Chicago & North Western Ry., 30 ft. N. of E. crossing gate, 34 ft. N. of concrete highway marker "S A U 15 D 1922," at base on W. side of electric light pedestal, on top of concrete curb; chiseled square-----	849.13
Elburn, 0.7 mi. S. of, near NE. cor. sec. 7, T. 39 N., R. 7 E., 60 ft. S. of crossroads, on W. side of rd., in root on SE. side of 36-in. oak tree; copper nail and washer-----	820.12
4. From crossroads 0.7 mile south of Elburn east along road to Geneva (by S. R. Archer in 1923; last mile of line leveled twice)	
Elburn, 0.7 mi. S. and 0.8 mi. E. from, 0.15 mi. W. of SE. cor. sec. 5, T. 39 N., R. 7 E., on N. side of rd., 50 ft. E. of dwelling, in fence corner, in root on S. side of 30-in. elm tree; copper nail and washer-----	820.63
Elburn, 0.7 mi. S. and 1.5 mi. E. from, 0.3 mi. S. and 1.7 mi. W. from La Fox, near S¼ cor. sec. 4, T. 39 N., R. 7 E., in NW. angle of crossroads, 3 ft. N. of fence corner, in concrete post; standard tablet stamped "6 A 1923"-----	813.128
Reference mark, 65 ft. S. of tablet, in SW. angle of crossroads, in root on NE. side of 12-in. pine tree; copper nail and washer-----	814.61
La Fox, 0.3 mi. S. and 0.8 mi. W. from, 250 ft. W. of N¼ cor. sec. 10, T. 39 N., R. 7 E., 250 ft. W. of junction of T-rd. N., on S. side of rd., in root 3 in. underground on N. side of 36-in. ash tree; copper nail and washer-----	807.73

La Fox, 0.3 mi. S. of, 0.25 mi. E. of SW. cor. sec. 2, T. 39 N., R. 7 E., in NW. angle of junction of T-rd. N., in SE. corner of yard of old dwelling, in root on N. side of 12-in. walnut tree; copper nail and washer-----	<i>Feet</i> 791.23
La Fox, 0.3 mi. S. and 1.3 mi. E. from, 200 ft. E. of S $\frac{1}{4}$ cor. sec. 1, T. 39 N., R. 7 E., 200 ft. E. of junction of T-rd. N., on N. side of rd., at fence line, in root on SE. side of 30-in. locust tree; copper nail and washer-----	765.52
La Fox, 0.3 mi. S. and 1.6 mi. E. from, 3.8 mi. W. of Geneva, 0.12 mi. W. of NE. cor. sec. 12, T. 39 N., R. 7 E., 130 ft. W. of junction of T-rd. S., on S. side of rd., at fence line, in concrete post; standard tablet stamped "7 A 1923"-----	736.658
Reference mark, 25 ft. N. and 60 ft. E. from rd. junction, on N. side of rd., at fence corner, in root on W. side of 24-in. maple tree; copper nail and washer-----	731.48
Geneva, 2.8 mi. W. of, near SE. cor. sec. 6, T. 39 N., R. 8 E., 75 ft. N. and 30 ft. W. from crossing of C. & N. W. Ry., 30 ft. W. of N.-S. rd., in line with rd. E., on S. side at E. end of driveway W. to dwelling, in root on NE. side of 24-in. maple tree; copper nail and washer-----	757.66
Geneva, 1.7 mi. W. of, 0.13 mi. E. of NW. cor. sec. 9, T. 39 N., R. 8 E., 30 ft. N. and 60 ft. W. from crossroads, in root on N. side of 48-in. cottonwood tree; copper nail and washer-----	752.03
Geneva, 0.8 mi. SW. of Kane County courthouse, near S. cor. secs. 3 and 4, T. 39 N., R. 8 E., 40 ft. N. of junction of T-rd. S., at fence corner, in root on SW. side of 36-in. maple tree; copper nail and washer---	741.04
Geneva, at SE. corner of grounds of Kane County courthouse, at NW. corner of intersection of Third and Campbell Streets, in angle formed by sidewalk intersection, in concrete post; standard tablet stamped "8 A 1923" (recovered by U. S. C. & G. S. in 1935)-----	719.490
Reference mark, at E. end of sidewalk to E. entrance of courthouse, on top of S. end of lower step of stone steps to soldiers monument, 6 in. higher than street sidewalk, on small terrace; chiseled square--	720.59
Geneva, at SE. corner of city hall, at NW. corner of intersection of First and James Streets, in S. face of stone water table; standard tablet stamped "20 A 1923"-----	716.721
Geneva, at SW. corner of W. abutment of concrete highway bridge over Fox River, in concrete walk, flush with surface; top of metal pull box plate (Rivers and Lakes Comm. B. M.)-----	684.223
5. From crossroads 2.8 miles west of Geneva north along road 2 miles to northeast corner of farm of State School for Boys (by S. R. Archer in 1923)	
Geneva, 2.8 mi. W. thence 1.0 mi. N. from, near SW. cor. sec. 32, T. 40 N., R. 8 E., in NE. angle of junction of T-rd. E., in field, in root on N. side of large forked willow tree; copper nail and washer----	747.66
Geneva, 2.8 mi. W. thence 1.4 mi. N. from, 3.0 mi. along U. S. Highway 30 SW. of St. Charles, 0.1 mi. S. of E $\frac{1}{4}$ cor. sec. 31, T. 40 N., R. 8 E., in SW. angle of crossroads, at fence corner, in root on W. side of 15-in. apple tree; copper nail and washer-----	741.18

6. From road junction 0.8 mile southwest of Geneva along roads alternately south and west to junction of State Highway 71 at point 3.8 miles northwest of Aurora (by S. R. Archer in 1923; leveled twice)

Geneva, 1.5 mi. SW. of, near E $\frac{1}{4}$ cor. sec. 9, T. 39 N., R. 8 E., in NE. angle of junction of T-rd. E., in root on S. side, 15 in. from trunk, of 14-in. catalpa tree; copper nail and washer-----	<i>Feet</i> 743.21
Geneva, 2.3 mi. SW. of, in NE $\frac{1}{4}$ sec. 16, T. 39 N., R. 8 E., 130 ft. SW. of crossroads, on SE. side of rd., in root under fence on NW. side of 10-in. cherry tree; copper nail and washer-----	707.40
Geneva, 2.9 mi. SW. of, 1.2 mi. NW. of Batavia, near N $\frac{1}{4}$ cor. sec. 21, T. 39 N., R. 8 E., on S. side of rd. junction, 3 ft. E. of center line extended of rd. NE., at fence line, in concrete post; standard tablet stamped "9 A 1923"-----	723.525
Reference mark, 20 ft. S. and 110 ft. W. from rd. junction, on top of granite boulder; chiseled square-----	724.09
Batavia, 2.0 mi. NW. of, 0.15 mi. E. of N $\frac{1}{4}$ cor. sec. 20, T. 39 N., R. 8 E., 50 ft. S. of junction of T-rd. S., on E. side of rd., at fence line, in root on S. side of 8-in. cherry tree; copper nail and washer-----	725.44
Batavia, 2.1 mi. W. of, near center of sec. 20, T. 39 N., R. 8 E., 60 ft. S. of crossroads, on E. side of rd., in root on NW. side of 24-in. oak tree; copper nail and washer-----	707.78
Batavia, 3.2 mi. W. of, 0.1 mi. W. of center of sec. 19, T. 39 N., R. 8 E., at rd. junction, on N. side of E.-W. rd., 5 ft. E. of center line extended of rd. S., 4 ft. NE. of concrete signpost, in concrete post; standard tablet stamped "10 A 1923"-----	725.070
Reference mark, 45 ft. N. and 20 ft. E. from rd. junction, 15 ft. N. and 15 ft. E. from fence corner, in field, in root on SE. side of 12-in. hickory tree; copper nail and washer-----	725.44
Batavia, 3.2 mi. W. and 0.8 mi. S. from, 0.15 mi. NW. of center of sec. 30, T. 39 N., R. 8 E., on W. side of rd., 30 ft. S. of dwelling, on N. side of driveway, in root on SE. side of 36-in. maple tree; copper nail and washer-----	727.38
Batavia, 3.2 mi. W. and 1.4 mi. S. from, 2.3 mi. W. and 1.2 mi. N. from North Aurora, 0.25 mi. E. of SW. cor. sec. 30, T. 39 N., R. 8 E., 18 ft. N. and 25 ft. E. from junction of rd. W., at fence line, in root on NW. side of 6-in. hickory tree; copper nail and washer----	733.10
North Aurora, 2.3 mi. W. and 0.6 mi. N. from, 0.2 mi. SW. of center of sec. 31, T. 39 N., R. 8 E., 25 ft. S. and 25 ft. W. from junction of rd. E., in root on SE. side of 36-in. oak tree; copper nail and washer-----	719.75
North Aurora, 2.5 mi. W. of, in NW $\frac{1}{4}$ sec. 6, T. 38 N., R. 8 E., in NE. angle of junction of rd. E., 15 ft. E. of fence corner, in concrete post; standard tablet stamped "11 A 1923"-----	707.358
Reference mark, 60 ft. S. and 25 ft. E. from rd. junction, at fence line, in root 5 in. underground on W. side of 8-in. maple tree; copper nail and washer-----	704.12
North Aurora, 2.5 mi. W. thence 1.1 mi. SW. from, in NE $\frac{1}{4}$ sec. 12, T. 38 N., R. 7 E., 160 ft. N. of junction of rd. SE., 70 ft. S. of dwelling standing on W. side of rd., in root on SE. side of 12-in. tree, south-easternmost of several trees in yard; copper nail and washer-----	682.78
North Aurora, 2.5 mi. W. thence 2.5 mi. SW. from, 4.4 mi. NW. of Aurora, near center of sec. 13, T. 38 N., R. 7 E., 30 ft. N. and 40 ft. E. from junction of rd. N.W., 17 ft. E. of fence corner, in root on SE. side of forked elm tree; copper nail and washer-----	699.05

Aurora, 3.8 mi. NW. of, near N $\frac{1}{4}$ cor. sec. 24, T. 38 N., R. 7 E., 30 ft. N. and 35 ft. E. from junction of State Highway 71 and rd. NW., 13 ft. E. of fence corner, in concrete post; standard tablet stamped "12 A 1923"-----	<i>Feet</i> 674.773
Reference mark, 165 ft. E. of rd. junction, on S. side of highway, at fence line, in root on N. side of 24-in. maple tree; copper nail and washer-----	672.74
7. From road junction 3.8 miles northwest of Aurora generally west along highways to road junction 0.4 mile north and 2.3 miles west from Sugar Grove, thence north along range-line road and other roads to crossroads 0.7 mile south of Elburn (by S. R. Archer in 1923; last two miles of line leveled twice)	
Aurora, 4.8 mi. NW. of, in SE $\frac{1}{4}$ sec. 14, T. 38 N., R. 7 E., on S. side of highway, opposite junction of rd. N., in NE. corner of schoolyard, in root on NW. side of 24-in. maple tree; copper nail and washer-----	703.72
T. 38 N., R. 7 E., near center of SE $\frac{1}{4}$ sec. 15, on N. side of highway, at top of hill, 75 ft. W. of dwelling, in SW. corner of yard, in root on SE. side of 15-in. walnut tree; copper nail and washer-----	710.77
T. 38 N., R. 7 E., near center of sec. 16, 1.0 mi. N. of Sugar Grove, on W. side of N.-S. rd., in line with rd. E., 1 ft. E. of fence, 5 ft. N. and 3 ft. W. from concrete signpost, in concrete post; standard tablet stamped "13 A 1923"-----	710.617
Reference mark, 50 ft. N. of tablet, in root on E. side of 24-in. maple tree; copper nail and washer-----	710.52
T. 38 N., R. 7 E., 0.25 mi. W. of NE. cor. sec. 20, 0.5 mi. N. and 0.7 mi. W. from Sugar Grove, 35 ft. S. and 10 ft. E. from junction of rd. N., on E. side of driveway, in NE. corner of yard of dwelling, in root on NW. side of 15-in. boxelder tree; copper nail and washer-----	709.74
T. 38 N., R. 7 E., 0.15 mi. W. of NE. cor. sec. 19, on S. side of highway, in N.W. corner of yard of dwelling, in root on N. side of 30-in. locust tree; copper nail and washer-----	703.84
T. 38 N., R. 6 E., near NE. cor. sec. 24, 3.0 mi. E. of Big Rock, 48 ft. S. and 30 ft. W. from intersection of U. S. Highway 30 and range-line rd., 45 ft. NE. of center line of Chicago, Burlington & Quincy R. R. track, in concrete post; standard tablet stamped "14 A 1923" (recovered in 1941)-----	708.033
Reference mark, 60 ft. S. and 100 ft. W. from tablet, on S. side of rd., in field, in root on NW. side of 30-in. tree, easternmost of two oak trees standing together; copper nail and washer-----	708.15
T. 38 N., R. 7 E., near NW. cor. sec. 18, in SE. angle of offset crossroads, 50 ft. S. of center line of rd. E., 15 ft. S. of center line of rd. W.; standard iron post with bronze cap stamped "Prim Trav Sta No 90 S 1922 A 15" (recovered in 1941)-----	706.754
Reference mark, in NW. angle of offset crossroads, on top of N. head wall of concrete culvert under rd. W.; chiseled square (recovered in 1941)-----	709.02
T. 38 N., R. 7 E., near SW. cor. sec. 6, 85 ft. NE. of junction of range-line rd. and NE.-SW. rd., on NW. side of rd., in field, in root on SE. side of 24-in. tree, westernmost of two maple trees standing 20 ft. apart; copper nail and washer-----	724.98
T. 38 N., R. 7 E., 0.2 mi. NW. of E $\frac{1}{4}$ cor. sec. 6, in S. angle of crossroads, in N. corner of yard of dwelling, in root on W. side of 24-in. maple tree; copper nail and washer-----	730.91

T. 39 N., R. 6 E., near E $\frac{1}{4}$ cor. sec. 36, 2.2 mi. SE. of Kaneville, on S. side of junction of highway and range-line rd. N., 10 ft. W of center line of rd. N., in concrete post; standard tablet stamped "16 A 1923"—	<i>Feet</i> 752.349
Reference mark, 45 ft. N. and 10 ft. E. from rd. junction, in root on NW. side of forked wild-cherry tree; copper nail and washer-----	754.44
T. 39 N., R. 7 E., near NW. cor. sec. 31, 80 ft. E. of crossroads, on W. end of S. head wall of concrete culvert under E.-W. rd.; chiseled square-----	765.64
T. 39 N., R. 6 E., 0.2 mi. N. of SE. cor. sec. 24, in NW. angle of crossroads, in fence corner, in root on E. side of 48-in. willow tree; copper nail and washer-----	803.51
T. 39 N., R. 6 E., near NE. cor. sec. 24, in SW. angle of junction of rd. W., 20 ft. W. of NE. corner of yard of dwelling, inside yard fence, in root on NE. side of 36-in. maple tree; copper nail and washer----	798.52
T. 39 N., R. 7 E., 0.25 mi. NW. of center of sec. 18, 2.0 mi. S. thence 0.7 mi. SW. from Elburn, in SW. angle of rd. forks, 2 ft. S. of fence corner, in concrete post; standard tablet stamped "17 A 1923"-----	801.362
Reference mark, 50 ft. N. of rd. forks, at turn in rd. from S. to E., 15 ft. N. of fence corner, on E. side of N.-S. fence, in root on SE. side of 30-in. oak tree; copper nail and washer-----	800.14
Elburn, 2.0 mi. S. of, 0.25 mi. S. of NE. cor. sec. 18, T. 39 N., R. 7 E., 30 ft. S. and 115 ft. W. from junction of rd. N., 20 ft. W. of NW. corner of yard of dwelling, in root on N. side of 14-in. maple tree; copper nail and washer-----	804.42
8. From road junction 3.8 miles northwest of Aurora southeast and east along highways by way of Aurora to point 1.1 miles south and 0.4 mile west from Eola (by S. R. Archer in 1923)	
Aurora, 2.5 mi. NW. of, 0.15 mi. S. of NE. cor. sec. 19, T. 38 N., R. 8 E., in SW. angle of junction of T-rd. S., at fence corner, in root on NE. side of 30-in. maple tree; copper nail and washer-----	695.06
Aurora, 2.0 mi. NW. of, 0.25 mi. N. of center of sec. 20, T. 38 N., R. 8 E., at W. end of Galena Boulevard, 30 ft. S. and 25 ft. E. from junction of rd. N., on E. side of driveway, in NE. corner of yard of dwelling, in root on N. side of 24-in. boxelder tree; copper nail and washer---	693.03
Aurora, 40 ft. E. of crossing of C. B. & Q. R. R. and Galena Boulevard, at end of grass plot in center of boulevard, on top of curb; chiseled square-----	670.99
Aurora, at NW. corner of intersection of Galena Boulevard and Blackhawk Street, at S. entrance to high school building, on top of W. end of lower step, 6 in. above sidewalk; chiseled square-----	686.05
Aurora, 38 ft. W. of center of intersection of Galena Boulevard and Oak Street, at E. end of grass plot, in center of boulevard, on top of curb; chiseled cross-----	676.61
Aurora, at W. end of Walnut Street bridge over Fox River, on N. curb; chiseled square (Rivers and Lakes Comm. B. M.)-----	644.89
Aurora, at S. end of Stolp Avenue, one-half block S. of post office, in NW. corner of lawn in front of Aurora Public Library, in concrete post; standard tablet stamped "18 A 1923" <sup>78</sup> -----	635.619

<sup>78</sup> In 1936 this bench mark was reported destroyed.

Aurora, in SE. corner of intersection of Fox and Jackson Streets, at Fox Street entrance to East Aurora High School, on E. end of granite doorsill; chiseled square <sup>a</sup> -----	<i>Feet</i> 677.54
Aurora, at SE. corner of intersection of New York and State Streets, on curb; chiseled square-----	681.96
Aurora, near E. city limits, at E. end of New York Street, 115 ft. E. of street intersections, on top of N. head wall of concrete highway culvert; chiseled square-----	719.81
Aurora, 3.7 mi. E. of, 1.1 mi. S. and 0.5 mi. W. from Eola, near center of sec. 19, T. 38 N., R. 9 E., in SE. angle of junction of rd. SW., 20 ft. E. of fence corner, 5 ft. E. of concrete property-line marker; standard iron post with bronze cap stamped "A 19 1923"-----	716.481
Reference mark, in SW. angle of rd. junction, at NE. corner of yard of dwelling, in root on N. side of 12-in. maple tree; copper nail and washer-----	716.79

[Continued in Wheaton quadrangle, line 5]

9. From point 1.7 miles north and 2 miles east from Virgil east along township-line road to road junction 2.3 miles north of Lily Lake (by S. R. Archer in 1923)

[Continued from Sycamore quadrangle, line 2]

Virgil, 1.7 mi. N. and 2.6 mi. E. from, 2.3 mi. N. and 0.6 mi. W. from Lily Lake, near NW. cor. sec. 6, T. 40 N., R. 7 E., on S. head wall of concrete culvert; chiseled square-----	957.52
--	--------

10. From Lily Lake northwest along road 1.2 miles to point 2 miles southeast of Virgil (by J. F. Barksdale in 1923)

Lily Lake, 0.5 mi. NW. of, 2.7 mi. SE. of Virgil, 0.2 mi. S. of NE. cor. sec. 13, T. 40 N., R. 6 E., on NE. side of rd., 20 ft. W. of fence corner, 3 ft. N. of fence, in root on N. side of 20-in. maple tree; copper nail and washer-----	933.53
---	--------

[Continued in Sycamore quadrangle, line 9]

11. From road junction near east quarter corner sec. 36, T. 39 N., R. 6 E., southeast along highway 0.5 mile, thence west to point on township-line road 1.9 miles south and 1.1 miles east from Kaneville (by J. F. Barksdale in 1923)

T. 39 N., R. 7 E., near SW. cor. sec. 31, 0.11 mi. SE. of electric railway track, on NW. side of rd., in root on S. side of 40-in cottonwood tree; copper nail and washer-----	742.42
--	--------

[Continued in Sycamore quadrangle, line 10]

12. From crossroads 0.8 mile north of Elburn west 1.5 miles along U. S. Highway 30 (by G. F. Williams in 1923)

Elburn, 0.8 mi. N. and 0.8 mi. W. from, 0.1 mi. S. of E¼ cor. sec. 36, T. 40 N., R. 6 E., on S. side of highway, 35 ft. S. and 40 ft. W. from junction of lane N., 35 ft. W. of gate, 6 ft. S. of fence, in root on NW side of 10-in. hickory tree; copper nail and washer-----	880.52
---	--------

[Continued in Sycamore quadrangle, line 3]

<sup>a</sup> In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "Aurora 1934," elevation 637.915 ft.

# GENOA QUADRANGLE

[Latitude 42°00'–42°15'; longitude 88°30'–88°45']

BOONE, DE KALB, KANE, AND McHENRY COUNTIES

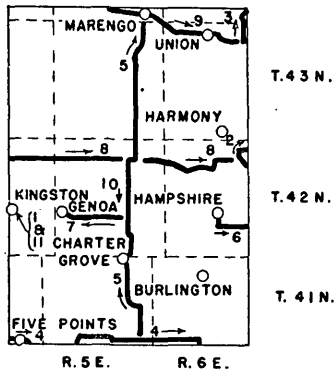


FIGURE 240.—Lines of leveling in Genoa quadrangle.

## 1. At Kingston (by J. B. Metcalfe, Jr. in 1917)

Kingston, 0.5 mi. E. of Chicago, Milwaukee, St. Paul & Pacific R. R. sta., 33 ft. N. of main track, at NW. corner of brick store building belonging to Julius Chapman, in water table on W. face; center mark in copper bolt leaded horizontally (U. S. C. E. B. M. 81; recovered by U. S. C. & G. S. in 1935)<sup>80</sup>-----

Feet  
904.506

[Continued in Kirkland quadrangle, line 1]

2. From point 2.3 miles southeast of Harmony along roads northwest, north, and east in secs. 2 and 11, T. 42 N., R. 6 E., to point 1 mile south and 1.3 miles east from Harmony (by R. G. Stevenson in 1923)

[A jog from Elgin quadrangle, line 8]

Harmony, 1.9 mi. SE. of, 1.6 mi. NW. of Henpeck, 0.14 mi. W. of quarter corner between secs. 2 and 11, T. 42 N., R. 6 E., 24 ft. E. from junction of rd. W., in concrete post; standard tablet stamped "Prim Trav Sta No 16 W 1921"-----

967.699

Reference mark, 75 ft. W. of tablet, on E. end of S. head wall of concrete culvert; chiseled square (not recovered in line 8)-----

968.99

[Continued in Elgin quadrangle, line 8]

3. From point 0.5 mile south and 2.2 miles east from Union along roads north and northeast to point 1 mile north and 2.2 miles east from Union (by R. G. Stevenson in 1923)

[Continued from Elgin quadrangle, line 8]

Union, 0.5 mi. S. and 2.1 mi. E. from, near S¼ cor. sec. 2, T. 43 N., R. 6 E., 20 ft. N. and 56 ft. E. from junction of T-rd. N., in concrete post; standard tablet<sup>81</sup>-----

842.397

<sup>80</sup> In 1936 this bench mark was reported destroyed.

<sup>81</sup> This tablet replaces one stamped "Prim Trav Sta No 14 W 1921" for which no elevation had been determined.

Reference mark, 80 ft. E. of tablet, on S. side of rd., in root of large tree; copper nail and washer-----	Feet 842.63
Union, 1.0 mi. N. and 2.1 mi. E. from, near center of sec. 35, T. 44 N., R. 6 E., 30 ft. NE. of crossroads, 20 ft. SW. of schoolhouse, in root of 18-in. ash tree; copper nail and washer-----	844.31

[Continued in Elgin quadrangle, line 9]

4. From point 1.8 miles southeast of Wilkinson along roads generally east to point 3.5 miles south of Burlington (by S. R. Archer in 1923)

[Continued from Kirkland quadrangle, line 7]

Wilkinson, 0.4 mi. S. and 2.2 mi. E. from, at Five Points, 0.2 mi. E. of center of sec. 26, T. 41 N., R. 4 E., 30 ft. S. and 40 ft. E. from crossroads, 750 ft. N. of crossing of Chicago Great Western Ry. and N.-S. rd., opposite SW. corner of triangular plot between rds.; standard iron post with bronze cap stamped "Prim Trav Sta No 29 1914 A 36"-----	837.380
Reference mark, 70 ft. W. of iron post, at SW. corner of crossroads, in NE. corner of yard of dwelling, in root on N. side of 30-in. maple tree; copper nail and washer-----	838.72

[Jogs into Sycamore quadrangle, line 1]

Five Points, 3.2 mi. E. and 0.4 mi. N. of, 1.2 mi. NE. of Sycamore, in NW¼ sec. 28, T. 41 N., R. 5 E., 600 ft. NE. of junction of rd. E., at SE. corner of concrete bridge, on parapet; chiseled square-----	843.47
T. 41 N., R. 5 E., 0.25 mi. S. of NW. cor. sec. 27, on N. side of rd. at fence line, in root 6 in. underground on SE. side of 10-in. maple tree; copper nail and washer-----	855.94
T. 41 N., R. 5 E., 30 ft. S. of stone marking quarter corner between secs. 26 and 27, on S. side of rd. at right-angle turn, at fence corner; standard iron post with bronze cap stamped "39 A 1923"-----	873.288
Reference mark, 30 ft. N. of iron post, on stone marking quarter corner; highest point-----	872.79
T. 41 N., R. 5 E., near W¼ cor. sec. 25, on N. side of rd., 10 ft. E. of junction of T-rd. S., 20 ft. W. of SE. corner of yard of dwelling, in root 4 in. underground on S. side of 12-in. boxelder tree standing in yard; copper nail and washer-----	896.44
T. 41 N., R. 5 E., near center of sec. 25, 25 ft. N. and 75 ft. E. from junction of T-rd. N., at fence line, in root on S. side of middle tree of three large willow trees; copper nail and washer-----	902.02
T. 41 N., R. 6 E., 0.15 mi. E. of W¼ cor. sec. 30, 65 ft. N. of rd., 35 ft. N. and 25 ft. W. from SE. corner of yard of dwelling, in line with E. side of dwelling, in root on SE. side of 18-in. pine tree; copper nail and washer-----	917.58
T. 41 N., R. 6 E., 0.12 mi. E. of W¼ cor. sec. 29, 30 ft. S. and 25 ft. E. from junction of T-rd. S., 10 ft. S. of fence corner, in concrete post; standard tablet stamped "40 A 1923"-----	902.574
Reference mark, 35 ft. S. and 80 ft. W. from rd. junction, in root on NE. side of 24-in. oak tree; copper nail and washer-----	902.24
T. 41 N., R. 6 E., 0.25 mi. W. of center of sec. 28, 3.3 mi. S. and 0.8 mi. W. from Burlington, 150 ft. W. of junction of T-rd. S., on S. side of rd., 4 ft. S. of fence, in field, in root on NW. side of 12-in. oak tree; copper nail and washer-----	878.82

# 1438 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Burlington, 3.3 mi. S. of, 3.3 mi. N. and 0.5 mi. W. from Virgil, near E $\frac{1}{4}$  cor. sec. 28, T. 41 N., R. 6 E., in NW. angle of crossroads, on N. head wall of concrete culvert under E.-W. rd.; chiseled square----- Feet  
881.34

[Continued in Sycamore quadrangle, line 2]

5. From road junction near center of sec. 25, T. 41 N., R. 5 E., generally north along roads by way of Charter Grove to Marenco (by S. R. Archer in 1923)

T. 41 N., R. 5 E., near center of sec. 24, 275 ft. S. of crossroads, on W. side of rd., in root on NE. side of 30-in. maple tree, northernmost in row of five trees; copper nail and washer----- 894.71

T. 41 N., R. 5 E., 0.25 mi. S. of center of sec. 13, 290 ft. E. of junction of T-rd. S., on N. side of E.-W. rd., at SW. corner of yard of dwelling, in root on SW. side of 24-in. maple tree; copper nail and washer---- 893.12

T. 41 N., R. 5 E., near center of NE $\frac{1}{4}$  sec. 14, 2.0 mi. S. of Charter Grove, in NW. angle of crossroads, 4 ft. SW. of fence corner, in concrete post; standard tablet stamped "42 A 1923"----- 897.058

Reference mark, 125 ft. NW. of crossroads, 70 ft. S. of schoolhouse, 10 ft. E. of walk, in root on E. side of 30-in. maple tree; copper nail and washer----- 898.70

Charter Grove, 1.5 mi. S. of, near center of SE $\frac{1}{4}$  sec. 11, T. 41 N., R. 5 E., 45 ft. N. and 20 ft. E. from junction of rd. NE., in root on E. side of 15-in. oak tree; copper nail and washer----- 918.83

Charter Grove, 0.3 mi. N. of crossing of Illinois Central R. R. and N.-S. rd., near SW. cor. sec. 35, T. 42 N., R. 5 E., 35 ft. N. and 100 ft. E. from junction of T-rd. S., on N. side of rd., on E. side of driveway to dwelling, in root on S. side of westernmost of two 48-in. willow trees standing 5 ft. apart; copper nail and washer----- 880.03

Charter Grove, 1.3 mi. N. and 0.2 mi. E. from, 0.25 mi. E. of NW. cor. sec. 35, T. 42 N., R. 5 E., 30 ft. S. and 45 ft. E. from junction of T-rd. S., 23 ft. E. of fence corner, in concrete post; standard tablet stamped "43 A 1923"----- 872.556

Charter Grove, 2.3 mi. N. of, 0.2 mi. S. and 1.2 mi. W. from New Lebanon, near NW. cor. sec. 26, T. 42 N., R. 5 E., 140 ft. E. of crossroads, at W. concrete abutment of bridge, on S. end of bridge seat; chiseled square----- 852.77

New Lebanon, 1.0 mi. N. and 1.2 mi. W. from, 0.25 mi. N. of SW. cor. sec. 14, T. 42 N., R. 5 E., on E. side of rd., 5 ft. S. and 5 ft. E. from S. end of driveway gate, in yard of dwelling, in root on NW. side of 10-in. elm tree; copper nail and washer<sup>82</sup>----- 829.97

New Lebanon, 1.7 mi. N. and 1.2 mi. W. from, 1.0 mi. S. and 0.5 mi. W. from Ney School, near SE. cor. sec. 10, T. 42 N., R. 5 E., 40 ft. N. and 25 ft. W. from crossroads; standard iron post with bronze cap stamped "44 A 1923" (recovered in 1936)----- 827.315

Reference mark, 30 ft. N. of iron post, on W. side of fence, on E. side of willow tree; copper nail and washer (not recovered in 1936)---- 828.82

Ney School, 0.5 mi. W. of, near NW. cor. sec. 11, T. 42 N., R. 5 E., in SE. angle of junction of T-rd. S., in NW. corner of yard of dwelling, in root on S. side of 30-in. maple tree; copper nail and washer----- 836.54

Ney School, near S $\frac{1}{4}$  cor. sec. 2, T. 42 N., R. 5 E., 40 ft. N. and 55 ft. E. from junction of T-rd. N., in SW. corner of schoolyard, in root on W. side of 15-in. maple tree; copper nail and washer----- 833.25

<sup>82</sup> Superseded in 1936 by similar mark at same location; see line 10.

Ney School, 1.0 mi. N. of, near N $\frac{1}{4}$ cor. sec. 2, T. 42 N., R. 5 E., at De Kalb-McHenry county line, 30 ft. S. and 30 ft. E. from junction of T-rd. W., in concrete post; standard tablet stamped "45 A 1923"-----	<i>Feet</i> 833.584
Ney School, 2.0 mi. N. of, 1.7 mi. S. and 0.7 mi. E. from Riley, near N $\frac{1}{4}$ cor. sec. 35, T. 43 N., R. 5 E., at NW. corner of bridge over Coon Creek, on SE. end of NW. concrete wing wall; chiseled square-----	809.47
Riley, 0.7 mi. S. and 0.7 mi. E. from, near N $\frac{1}{4}$ cor. sec. 26, T. 43 N., R. 5 E., 530 ft. S. of crossroads, on E. side of rd., in SW. corner of yard of dwelling, in root 5 in. underground on W. side of 15-in. maple tree; copper nail and washer-----	827.41
Riley, 0.7 mi. E. of, near center of sec. 23, T. 43 N., R. 5 E., in SE. angle of crossroads, in root on W. side of forked oak tree; copper nail and washer-----	831.36
Riley, 0.7 mi. E. and 0.2 mi. N. from, 0.12 mi. S. of N $\frac{1}{4}$ cor. sec. 23, T. 43 N., R. 5 E., at NW. corner of bridge over Coon Creek, on top of concrete parapet; chiseled square-----	826.11
Riley, 0.4 mi. N. and 0.7 mi. E. from, 0.1 mi. N. of S $\frac{1}{4}$ cor. sec. 14, T. 43 N., R. 5 E., on E. side of rd., 15 ft. N. of junction of rd. W., in concrete post; standard tablet stamped "47 A 1923"-----	833.735
Riley, 1.7 mi. N. and 0.7 mi. E. from, 2.3 mi. S. and 0.5 mi. W. from Marengo, near center of sec. 11, T. 43 N., R. 5 E., 25 ft. S. and 40 ft. E. from crossroads, 25 ft. E. of NW. corner of yard of dwelling, in root on W. side of 12-in. maple tree; copper nail and washer-----	860.72
Marengo, 1.2 mi. S. of, 0.14 mi. S. of W $\frac{1}{4}$ cor. sec. 1, T. 43 N., R. 5 E., near junction of rd. E., in field on E. side of rd., 20 ft. S. and 6 ft. E. from fence corner, 40 ft. N. and 16 ft. E. from concrete culvert, in root on W. side of 8-in. elm tree; copper nail and washer-----	944.44
Marengo, in NE. corner of intersection of South Ford Street and Grant Highway, at SW. corner of yard of Community High School, in corner of sidewalk intersection, in concrete post; standard tablet stamped "8 W 1923"-----	837.039
Reference mark, at S. entrance to schoolhouse, on first step; chiseled square-----	837.12
Marengo, in NE. corner of intersection of North State Street and Grant Highway, on outer edge of sidewalk on E. side of North State Street, 6 in. S. of center line of sidewalk on N. side of Grant Highway, 2 ft. N. of sidewalk corner, 7 in. N. of base of NW. corner of light pedestal; chiseled square-----	834.44

[Continued in Harvard quadrangle, line 5]

**6. From Hampshire south 0.7 mile, thence east 1.5 miles to point 2 miles west of Starks (by S. R. Archer in 1923)**

Hampshire, on E. side of State Street, in brick building owned by Philip Shultz, occupied by Wilcox Pharmacy, in stone water table, in W. face, at SW. corner of building; center mark of copper bolt leaded horizontally (U. S. C. E. B. M. 83)-----	899.883
Hampshire, 0.7 mi. S. of, near E $\frac{1}{4}$ cor. sec. 28, T. 42 N., R. 6 E., in NW. angle of offset crossroads, 10 ft. N. and 5 ft. E. from fence corner, in concrete post; standard tablet stamped "46 A 1923" <sup>83</sup> -----	897.781

<sup>83</sup> In 1933 this bench mark was moved 26 ft. north of its original position and reset .083 ft. higher in elevation. The figures given represent the new elevation.

# 1440 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Reference mark, 260 ft. SE. of tablet, in SE. angle of offset crossroads, in root on N. side of 12-in. hickory tree; copper nail and washer-----	<i>Feet</i> 898.86
Hampshire, 0.7 mi. S. and 1.0 mi. E. from, 0.07 mi. W. of E¼ cor. sec. 27, T. 42 N., R. 6 E., 120 ft. E. of lane N. to dwelling, 40 ft. E. of concrete culvert, on N. side of rd., at fence line, in root on SW. side of 48-in. cottonwood tree; copper nail and washer-----	928.81
Hampshire, 0.7 mi. S. and 1.5 mi. E. from, 2.0 mi. W. of Starks, near center of sec. 26, T. 42 N., R. 6 E., in SE. angle of junction of T-rd. S., on E. head wall of concrete culvert under N.-S. rd.; chiseled square-----	984.06

[Connects with line 7 in Elgin quadrangle]

## 7. From crossroads 0.2 mile south and 1.2 miles west from New Lebanon west along highway to Genoa (by S. R. Archer in 1923)

New Lebanon, 0.2 mi. S. and 2.2 mi. W. from, 2.5 mi. E. of Genoa, near NE. cor. sec. 28, T. 42 N., R. 5 E., at Genoa Center School, in SW. angle of crossroads, in SE. corner of schoolyard, in root on W. side of 12-in. maple tree; copper nail and washer-----	851.66
Genoa, 1.5 mi. E. of, near SE. cor. sec. 20, T. 42 N., R. 5 E., on N. side of rd., 45 ft. W. of N.-S. section-line fence, in root on SE. side of 15-in. maple tree; copper nail and washer-----	841.04
Genoa, 0.3 mi. W. of E. corporate limits of, 125 ft. E. of junction of street N., 75 ft. W. of crossing of abandoned electric railway line, on N. side of street, 15 ft. E. of angle in sidewalk, in root on S. side of elm tree, second from W. end in row of four elm trees; copper nail and washer-----	852.68
Genoa, 320 ft. S. of main track of C. M. St. P. & P. R. R., at corner of Main and Emmett Streets, in brick store building owned by Alexander Crawford, in S. end of stone doorsill on E. side; top of copper bolt leaded vertically (U. S. C. E. B. M. 82; recovered by U. S. C. & G. S. in 1935)-----	838.223

## 8. From point 2.7 miles north and 0.5 mile east from Kingston generally east along roads by way of Ney School to road junction 1.8 miles southeast of Harmony (by G. F. Williams in 1923)

[Continued from Kirkland quadrangle, line 8]

Kingston, 2.7 mi. N. and 1.5 mi. E. from, 1.2 mi. S. and 2.3 mi. E. from Herbert, 0.2 mi. E. of S¼ cor. sec. 2, T. 42 N., R. 4 E., on N. side of rd., on E. end of N. head wall of concrete culvert; chiseled square-----	830.53
Kingston, 2.7 mi. N. and 1.8 mi. E. from, near SW. cor. sec. 1, T. 42 N., R. 4 E., in NE. angle of crossroads, 10 ft. E. of fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 19 W 1921 W 4"-----	838.445
Reference mark, in SW. angle of crossroads, on S. end of W. head wall of concrete culvert under N.-S. rd.; chiseled square-----	839.23
T. 42 N., R. 5 E., near SW. cor. sec. 6, 210 ft. E. of junction of range-line rd. S., on N. side of rd., 5 ft. N. of fence, in yard of dwelling, in root on S. side of 15-in. maple tree; copper nail and washer-----	863.71
T. 42 N., R. 5 E., 0.2 mi. E. of NW. cor. sec. 8, on S. side of rd., on concrete head wall of culvert; chiseled square-----	856.67

T. 42 N., R. 5 E., near NW. cor. sec. 9, 2.5 mi. W. of Ney School, 40 ft. S. and 30 ft. E. from crossroads, 15 ft. S. of fence corner, in concrete post; standard tablet stamped "5 W 1923"-----	<i>Feet</i> 859.930
Reference mark, in SW. angle of crossroads, on S. side of rd., on E. end of concrete head wall of culvert; chiseled square-----	861.33
Ney School, 1.5 mi. W. of, near NE. cor. sec. 9, T. 42 N., R. 5 E., 200 ft. W. of crossroads, on S. side of rd., in root on N. side of 15-in. boxelder tree; copper nail and washer-----	841.78
Ney School, 0.4 mi. E. of, near NE. cor. sec. 11, T. 42 N., R. 5 E., 100 ft. W. of junction of rd. SE., on S. side of rd., on SE. wing wall of concrete culvert; chiseled square-----	824.11
Ney School, 1.5 mi. E. of, near NW. cor. sec. 7, T. 42 N., R. 6 E., at De Kalb-Kane county line, 30 ft. E. of fence corner, in root on N. side of 42-in. maple tree; copper nail and washer-----	837.22
Ney School, 2.5 mi. SE. of, 2.0 mi. S. and 2.2 mi. W. from Harmony, near E $\frac{1}{4}$ cor. sec. 7, T. 42 N., R. 6 E., 100 ft. N. of junction of rd. S., in concrete post; standard tablet stamped "6 W 1923"-----	845.260
Reference mark, 165 ft. E. of rd. junction, on S. side of rd., in root on N. side of 20-in. white-oak tree; copper nail and washer-----	844.98
Harmony, 2.0 mi. S. and 1.2 mi. W. from, 0.1 mi. N. of E $\frac{1}{4}$ cor. sec. 8, T. 42 N., R. 6 E., on S. side of rd., 125 ft. W. of fence corner, 6 ft. S. of fence, in root on NE. side of 36-in. willow tree; copper nail and washer-----	854.54
Harmony, 2.0 mi. S. and 0.4 mi. W. from, 0.07 mi. N. and 0.25 mi. E. from center of sec. 9, T. 42 N., R. 6 E., on E. side of rd. S., on S. end of E. head wall of concrete culvert; chiseled square-----	873.35
Harmony, 1.6 mi. S. and 0.4 mi. W. from, 0.12 mi. S. and 0.25 mi. W. from NE. cor. sec. 9, T. 42 N., R. 6 E., on E. side of rd., on S. end of head wall of concrete culvert; chiseled square-----	892.59
Harmony, 1.5 mi. S. and 0.7 mi. E. from, near NE. cor. sec. 10, T. 42 N., R. 6 E., 65 ft. W. from junction of T-rd. S., 50 ft. S. of E.-W. rd., in yard of old dwelling, in root on S. side of apple tree; copper nail and washer-----	952.87
Harmony, 1.9 mi. SE. of, at junction of rd. W., on SE. wing wall of concrete culvert; chiseled square <sup>84</sup> -----	969.03

8. From point 2 miles west of Marengo east and southeast to road junction 0.5 mile south and 2.1 miles east from Union (by G. F. Williams in 1923)

[Continued from Harvard quadrangle, line 6]

Marengo, 1.0 mi. W. of, 0.1 mi. NW. of E $\frac{1}{4}$ cor. sec. 34, T. 44 N., R. 5 E., in SE. angle of junction of Grant Highway and rd. S., on E. end of N. wing wall of concrete culvert under N.-S. rd.; chiseled square-----	812.41
Marengo, 0.6 mi. SE. of intersection of North State Street and Grant Highway, 20 ft. N. and 40 ft. E. from intersection of South Prospect Street and Grant Highway, 6 in. from W. end of N. head wall of concrete culvert; chiseled square-----	829.25
Marengo, 1.9 mi. SE. of, 1.6 mi. W. of Union, 1.2 mi. NW. of Coral, 0.2 mi. W. of E $\frac{1}{4}$ cor. sec. 6, T. 43 N., R. 6 E., in SE. angle of junction of Grant Highway and rd. E., 3 ft. N. of fence corner, on W. end of S. head wall of concrete culvert; chiseled square-----	847.70

<sup>84</sup> Established as a reference mark to standard tablet stamped "Prim Trav Sta No. 16 W 1921," described in line 2. No connection was made to reference mark described in line 2.

Union, 0.4 mi. W. of, near W $\frac{1}{4}$ cor. sec. 4, T. 43 N., R. 6 E., 15 ft. N. and 30 ft. E. from junction of T-rd. S., on W. end of N. head wall of concrete culvert; chiseled square-----	Feet 834.33
Union, 125 ft. S. of intersection of Main and Jefferson Streets, in front of city hall, on E. side of Main Street, 8 ft. W. and 3 ft. S. from entrance, in concrete post; standard tablet stamped "9 W 1923"-----	841.650
Reference mark, 75 ft. N. of tablet, on E. side of Main Street, at entrance to drug store of Dr. Renie, on SW. corner of second step; chiseled square-----	841.77
Union, 0.6 mi. E. and 0.2 mi. S. from, 0.17 mi. S. of E $\frac{1}{4}$ cor. sec. 4, T. 43 N., R. 6 E., 50 ft. W. of junction of rd. SE., 85 ft. N. of C. & N. W. Ry. crossing N.-S. rd., 30 ft. N. of fence corner, 20 ft. W. of fence, in root on NE. side of 36-in. maple tree; copper nail and washer-----	835.07
Union, 0.5 mi. S. and 1.8 mi. E. from, 0.14 mi. E. of NW. cor. sec. 11, T. 43 N., R. 6 E., at bridge over South Branch Kishwaukee River, on E. end of S. wing wall of W. abutment, 18 in. E. of W. end of guardrail; chiseled square-----	839.94
10. From crossroads 1 mile south and 0.5 mile west from Ney School south along road to point on Chicago, Milwaukee, St. Paul & Pacific Railroad 1.2 miles west of New Lebanon (by E. W. Gouchenour in 1936; leveled twice) <sup>86</sup>	
Ney School, 1.2 mi. S. and 0.5 mi. W. from, 1.5 mi. N. and 1.2 mi. W. from New Lebanon, 0.22 mi. S. of NW. cor. sec. 14, T. 42 N., R. 5 E., on E. head wall of concrete culvert; chiseled square <sup>86</sup> -----	826.65
New Lebanon, 1.0 mi. N. and 1.2 mi. W. from, 0.25 mi. N. of SW. cor. sec. 14, T. 42 N., R. 5 E., on E. side of rd., 5 ft. S. and 5 ft. E. from S. end of driveway gate, in yard of dwelling, in root on NW. side of 10-in. elm tree; copper nail and washer <sup>87</sup> -----	830.03
New Lebanon, 1.2 mi. W. of, 3.6 mi. E. of Genoa, at C. M. St. P. & P. R. R. bridge Z-184, on S. end of E. abutment, 6 ft. S. of S. track; high point in chiseled square (U. S. C. & G. S. B. M. designated "T B M No 1")-----	850.477
11. East along Chicago, Milwaukee, St. Paul & Pacific Railroad near Kingston (by E. W. Gouchenour in 1936; leveled twice)	
[Continued from Kirkland quadrangle, line 5]	
Kingston, 0.5 mi. E. of, on S. side of crossing of C. M. St. P. & P. R. R. and C. & N. W. Ry., on NE. corner of concrete base of cable post; chiseled square-----	812.06
U. S. C. & G. S. standard disk stamped "C 50 1934"-----	812.397

<sup>86</sup> An apparent difference of 0.322 ft. occurs between the initial and closing points of this line. It is believed that one of these bench marks was disturbed prior to the date that the line was run.

<sup>86</sup> Established as a reference mark to standard iron post stamped "44 A 1923," described in line 5.

<sup>87</sup> Replaces bench mark described at same location in line 5.

# GOOSE LAKE QUADRANGLE

[Latitude 41°45'–42°00'; longitude 90°15'–90°30']

## ROCK ISLAND COUNTY

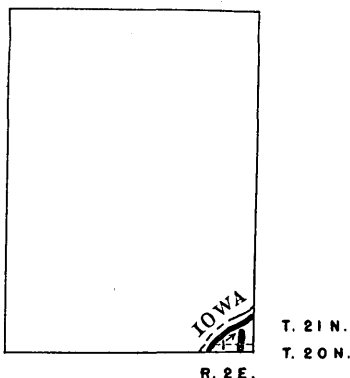


FIGURE 241.—Lines of leveling in Goose Lake quadrangle.

1. From point about 5 miles northeast of Cordova northeast along river road to point about 2 miles southwest of Albany (by S. R. Archer in 1930)

[Continued from Le Claire quadrangle, line 3]

Cordova, 5.5 mi. NE. of, 5.2 mi. SW. of Albany, about 0.4 mi. SW. of NE. cor. sec. 5, T. 20 N., R. 2 E., on SE. side of rd., at N. corner of schoolyard, 10 ft. SE. of fence corner, in root on SW. side of 24-in. maple tree; copper nail and washer-----	Feet 595.92
Albany, 4.4 mi. SW. of, on SE. side of rd., 38 ft. from top of river bank, 18 ft. from center line of highway, 2.5 ft. N. of fence along S. side of highway, 1 ft. W. of Thurle Peterson N.-S. property line; Mississippi River Comm. B. M. 158/2 cap on iron post-----	596.360
bolt in tile-----	592.321
Albany, 3.0 mi. SW. of, in sec. 34, T. 21 N., R. 2 E., 20 ft. S. and 33 ft. E. from crossroads, 90 ft. N. and 33 ft. E. from crossing of Chicago, Milwaukee, St. Paul & Pacific R. R., in concrete post; standard tablet stamped "T T 157 F 1929"-----	584.235
Reference mark, 140 ft. E. of C. M. St. P. & P. R. R. crossing, on S. side of track, in field, in root on E. side of 15-in. oak tree; copper nail and washer-----	581.91

[Continued in Clinton quadrangle, line 3]

# GRAYS LAKE QUADRANGLE

[Latitude 42°15'–42°30'; longitude 88°00'–88°15']

## LAKE AND McHENRY COUNTIES

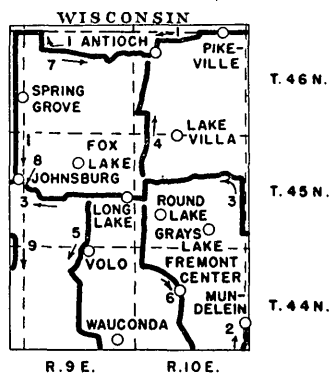


FIGURE 242.—Lines of leveling in Grays Lake quadrangle.

1. From point on Illinois-Wisconsin State line 1.3 miles east of Pikeville along roads generally west to road junction 3.5 miles north and 0.6 mile west from Spring Grove, thence south to Johnsonburg (by S. L. Parker in 1919)

[Continued from Waukegan quadrangle, line 2]

Pikeville, 0.8 mi. E. of, near S. cor. secs. 33 and 34, T. 1 N., R. 21 E., on N. side of rd., in root on S. side of 48-in. burr-oak tree; copper nail and washer <sup>88</sup> -----	Feet 764.64
Pikeville, in NE. corner of crossroads, in root on S. side of 16-in. soft-maple tree; copper nail and washer <sup>88</sup> -----	780.97
Antioch, 1.4 mi. W. of, 3.2 mi. NE. of Antioch, about 500 ft. E. of N¼ cor. fractional sec. 3, T. 46 N., R. 10 E., at point where rd. bears S. away from Illinois-Wisconsin State line, 5 ft. E. of SE. fence corner, 1 ft. N. of fence; standard iron post with bronze cap stamped "1919 795"-----	795.422
Antioch, 2.4 mi. NE. of, at Johnson School, 0.2 mi. N. of SW. cor. fractional sec. 3, T. 46 N., R. 10 E., in SE. corner of crossroads, in root on W. side of 12-in. soft-maple tree; copper nail and washer-----	831.60
Antioch, 0.6 mi. N. thence 0.9 mi. E. from, about 1,000 ft. due E. of W. cor. secs. 4 and 9, T. 46 N., R. 10 E., 60 ft. W. of NW. corner of T-rd. N., in fence line, in root on S. side of 17-in. white-oak tree; copper nail and washer-----	830.61
Antioch, 0.25 mi. W. of R. R. sta., at SW. corner of Antioch Grade School Building, 15 ft. S. of main entrance, in S. wall, 1 ft. E. of corner, 3.3 ft. above ground; standard tablet stamped "1919 771" (used as T. T. sta. in same year)-----	771.491

<sup>88</sup> This mark is in Wisconsin.

Antioch, 0.9 mi. W. of, 0.3 mi. NW. of SE. cor. sec. 7, T. 46 N., R. 10 E., at junction of T-rd. N., on S. side of rd., 5 ft. N. of fence line; standard iron post with bronze cap stamped "Prim Trav Sta No 7 1919 759" <sup>89</sup> -----	<i>Feet</i> 759.104
Antioch, 2.4 mi. W. of, at iron bridge over channel connecting Channel Lake and Lake Marie; surface of water June 19, 1919-----	736.3
Antioch, 3.0 mi. W. of, 300 ft. S. and 0.25 mi. W. from NE. cor. sec. 14, T. 46 N., R. 9 E., 40 ft. NE. of rd. fork, in root on S. side of 24-in. linden tree; copper nail and washer-----	766.46
Antioch, 3.6 mi. W. of, 0.2 mi. N. of S $\frac{1}{4}$ cor. sec. 11, T. 46 N., R. 9 E., at front entrance to Channel Lake School, 8 ft. W. of door, in NW. corner of concrete platform; standard tablet stamped "1919 751" (recovered in 1923) <sup>90</sup> -----	750.953
Antioch, 4.6 mi. W. of, in S $\frac{1}{2}$ sec. 10, T. 46 N., R. 9 E., 0.4 mi. E. of bridge over Fox River, 100 ft. W. of lane N., in field, 2 ft. N. of fence line, in root on S. side of forked oak tree; copper nail and washer (recovered in 1923)-----	744.74
Antioch, 6.3 mi. W. of, 2.5 mi. N. and 1.6 mi. E. from Spring Grove, 0.25 mi. E. of center of sec. 8, T. 46 N., R. 9 E., 0.25 mi. W. of Lake-McHenry county line, 13 ft. S. and 5 ft. E. from NE corner of crossroads; standard iron post with bronze cap stamped "1919 889" (recovered in 1923)-----	889.398
Spring Grove, 2.5 mi. N. and 0.9 mi. E. from, near E $\frac{1}{4}$ cor. sec. 7, T. 46 N., R. 9 E., 50 ft. S. of SW. corner of crossroads, 1 ft. E. of fence line, in root on E. side of 18-in. oak tree; copper nail and washer----	873.43
Spring Grove, 3.5 mi. N. and 0.9 mi. E. from, near NE. cor. fractional sec. 6, T. 46 N., R. 9 E., at Illinois-Wisconsin State line, 25 ft. SW. of SW. corner of T-rd. S., in field, in root on S. side of double oak tree; copper nail and washer-----	928.59
Spring Grove, 3.5 mi. N. and 0.1 mi. W. from, near S $\frac{1}{4}$ cor. sec. 34, T. 1 N., R. 19 E., at junction of T-rd. S., on N. side of rd., 6 ft. S. of fence line, on 24-in. granite boulder embedded in ground; chiseled square <sup>91</sup> -----	944.10
Spring Grove, 0.6 mi. W. thence 3.5 mi. N. from, near N $\frac{1}{4}$ cor. fractional sec. 1, T. 46 N., R. 8 E., 15 ft. E. of SE. corner of T-rd. S., on 2-by 1-ft. granite boulder embedded in soil; chiseled square----	895.46
Spring Grove, 0.6 mi. W. thence 2.5 mi. N. from, near center of sec. 12, T. 46 N., R. 8 E., in NW. corner of crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 9 1919 918" (recovered in 1923) <sup>90</sup> -----	918.215
Spring Grove, 0.6 mi. W. thence 0.9 mi. N. from, about 500 ft. S. of N $\frac{1}{4}$ cor. sec. 24, T. 46 N., R. 8 E., on W. side of rd., 2 ft. E. of fence line, in root on E. side of 18-in. soft-maple tree; copper nail-----	832.60
Spring Grove, 0.6 mi. W. of, near S $\frac{1}{4}$ cor. sec. 24, T. 46 N., R. 8 E., at NE. corner of crossroads, on concrete base of corner fence post; chiseled square-----	763.45

<sup>89</sup> In 1931 this bench mark was reported destroyed.

<sup>90</sup> In 1930 when a new schoolhouse was erected, this bench mark was destroyed and was replaced by a standard tablet, not stamped, set in steps of schoolhouse. Figures of elevation for the new mark are not available.

<sup>91</sup> This bench mark is in Wisconsin.

# 1446 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Spring Grove, 0.6 mi. W. thence 0.5 mi. S. from, 4.0 mi. N. of Johnsburg, near center of sec. 25, T. 46 N., R. 8 E., 1 ft. S. and 3 ft. E. from SW. corner of T-rd. W.; standard iron post with bronze cap stamped "1919 792" <sup>13</sup> -----	<i>Feet</i> 793.373
Johnsburg, 3.0 mi. N. of, near center of sec. 36, T. 46 N., R. 8 E., 15 ft. S. of quarter-section line, at junction of T-rd. E., in field, 1 ft. W. of fence line, on 30-in. granite boulder; chiseled square-----	880.35
Johnsburg, 1.5 mi. N. of, about 0.4 mi. S. of center of sec. 1, T. 45 N., R. 8 E., 5 ft. N. of NE. corner of crossroads, in fence line, in root on W. side of soft-maple tree; copper nail and washer-----	872.98
Johnsburg, in W. part of, in NW. corner of junction of E.-W. rd.; standard iron post with bronze cap stamped "Prim Trav Sta No 8 1919 761"-----	761.193

[Continued in McHenry quadrangle, line 1]

2. From point 0.6 mile north of Diamond Lake north along road to Mundelein (by S. L. Parker in 1919)

[Continued from Barrington quadrangle, line 1]

Diamond Lake, 1.0 mi. N. of, 1.2 mi. S. of Mundelein, about 900 ft. E. of SW. cor. sec. 30, T. 44 N., R. 11 E., 8 ft. N. of NE. corner of T-rd. E., in field, 1 ft. E. of fence line, in root on W. side of 18-in. oak tree; copper nail and washer-----	748.33
Mundelein, 20 ft. SW. of SW. corner of Citizens Bank, on concrete walk; chiseled square-----	765.81

[Continued in Waukegan quadrangle, line 3]

3. From point 0.4 mile south and 2.2 miles west from Grays Lake along roads west 0.2 mile to range line, thence north to Druce Lake School, thence generally west to Johnsburg (by S. L. Parker in 1919)

[Connects with line 1 in Waukegan quadrangle]

Grays Lake, 0.2 mi. S. and 2.0 mi. E. from, 0.25 mi. S. of NW. cor. sec. 31, T. 45 N., R. 11 E., in NE. corner of crossroads, in root on E. side of maple tree; copper nail and washer-----	810.24
Grays Lake, 1.0 mi. N. and 2.1 mi. E. from, about 500 ft. E. of SW. cor. sec. 19, T. 45 N., R. 11 E., 130 ft. N. of NE. corner of T-rd. E., 3 ft. E. of fence line, in root on W. side of 16-in. sugar-maple tree; copper nail and washer-----	777.20
Grays Lake, 1.4 mi. N. and 2.1 mi. E. from, in SW $\frac{1}{4}$ sec. 19, T. 45 N., R. 11 E., 30 ft. S. of SE. corner of T-rd. E., 2 ft. W. of fence line, in root on W. side of 42-in. cottonwood tree; copper nail and washer--	779.48
Grays Lake, 2.0 mi. N. and 2.0 mi. E. from, about 600 ft. NE. of SW cor. sec. 18, T. 45 N., R. 11 E., 350 ft. N. of N. shore of Druce Lake, 25 ft. N. of NW. corner of intersection of lane, 2.5 ft. E. of fence line; standard iron post with bronze cap stamped "Prim Trav Sta No 15 1906 770"-----	770.029
Grays Lake, 2.8 mi. N. and 2.0 mi. E. from, at Druce Lake School, 0.25 mi. S. of NW. cor. sec. 18, T. 45 N., R. 11 E., 50 ft. W. of school-house, in root on W. side of 16-in. lone white-oak tree; copper nail and washer-----	783.78

<sup>13</sup> In 1934 this bench mark was moved 10 ft. south and 3 ft. west from this position to a point 1 ft. north of present southwest corner of crossroads, and reset at an elevation 1.296 ft. higher than that originally determined. The figures given represent the new elevation.

Grays Lake, 2.9 mi. N. and 0.5 mi. E. from, about 500 ft. S. of N $\frac{1}{4}$ cor. sec. 14, T. 45 N., R. 10 E., 170 ft. E. of junction of rd. S., on N. side of rd., 2 ft. N. of fence line, in root on S. side of 24-in. oak tree; copper nail and washer-----	<i>Feet</i> 773.26
Grays Lake, 2.8 mi. N. and 1.0 mi. W. from, 0.3 mi. N. of Rollins, 0.2 mi. S. of NW. cor. sec. 15, T. 45 N., R. 10 E., in SE. corner of crossroads; standard iron post with bronze cap stamped "1919 802"-----	802.390
Grays Lake, 2.5 mi. N. and 2.4 mi. W. from, 1.4 mi. W. of Rollins, 650 ft. E. of center of sec. 17, T. 45 N., R. 10 E., 50 ft. S. and 15 ft. W. from junction of T-rd. S., in root on N. side of 48-in. white-oak tree; copper nail and washer-----	781.73
Grays Lake, 2.5 mi. N. and 3.5 mi. W. from, at Long Lake, 0.9 mi. E. thence 1.0 mi. N. from Chicago, Milwaukee, St. Paul & Pacific R. R. sta., about 0.1 mi. E. of center of section 18, T. 45 N., R. 10 E., 20 ft. S. of SW. corner of crossroads, 8 ft. W. of fence line, in high bank above rd.; standard iron post with bronze cap stamped "Prim Trav Sta No 6 1919 798" <sup>94</sup> -----	798.632
Long Lake, 0.9 mi. E. of C. M. St. P. & P. R. R. sta., near center of sec. 19, T. 45 N., R. 10 E., on E. side of rd., 50 ft. S. of junction of T-rd. W., 3 ft. W. of fence line, in root on N. side of 12-in. oak tree; copper nail and washer-----	768.85
Long Lake, 125 ft. SW. of C. M. St. P. & P. R. R. sta., on S. side of track, 10 ft. W. of public rd., in base of N. side of telegraph pole; rail spike-----	754.77
Long Lake, 0.6 mi. W. of, 1.8 mi. S. and 1.5 mi. E. from Fox Lake, 0.25 mi. S. of NE. cor. sec. 23, T. 45 N., R. 9 E., 3 ft. W. of NW. corner of crossroads, 1 ft. S. of fence line; standard iron post with bronze cap stamped "1919 790" <sup>95</sup> -----	790.987
Fox Lake, 1.8 mi. S. of, 0.3 mi. N. of center of sec. 22, T. 45 N., R. 9 E., 220 ft. W. of NW. corner of crossroads, 2 ft. N. of fence line, in root on S. side of 36-in. oak tree; copper nail and washer-----	765.70
Fox Lake, 1.9 mi. S. and 1.3 mi. W. from, in NW $\frac{1}{4}$ sec. 21, T. 45 N., R. 9 E., about 1,000 ft. E. of Lake-McHenry county line, on E. side of rd., at SE. corner of lane to barn, in root on W. side of 18-in. white-oak tree; copper nail and washer-----	757.00
Fox Lake, 2.0 mi. S. and 2.0 mi. W. from, 2.8 mi. SE. of Johnsburg, near center of sec. 20, T. 45 N., R. 9 E., 6.5 ft. E. of NE. corner of T-rd. N., 1 ft. S. of fence line; standard iron post with bronze cap stamped "1919 761"-----	760.836
Johnsburg, 1.6 mi. SE. of, 0.25 mi. W. of E. cor. secs. 18 and 19, T. 45 N., R. 9 E., 140 ft. W. of rd. fork, 160 ft. W. of concrete gateway to Sayers residence, on S. side of rd., on W. end of concrete wing wall of culvert; chiseled square-----	747.83
Johnsburg, 0.8 mi. SE. of, in SW $\frac{1}{4}$ sec. 18, T. 45 N., R. 9 E., at steel bridge over Fox River, on top of W. end of NE. concrete abutment; chiseled square (recovered in 1923)-----	747.04

<sup>94</sup> In 1925 it was reported that this bench mark had been moved 58 ft. west of this position. No further information available.

<sup>95</sup> In 1935 this bench mark was moved N.5°40'W. from this location to a point between two power poles supporting a transformer, and reset at an elevation 0.360 ft. higher than that originally determined. The figures given represent the new elevation.

4. From road junction 1 mile north and 0.9 mile east from railroad station at Long Lake generally north along road to point 0.9 mile west of Antioch (by S. L. Parker in 1919)

Long Lake, 0.9 mi. E. thence 1.9 mi. N. from R. R. sta., 1.8 mi. W. thence 1.6 mi. S. from Lake Villa, in SW¼ sec. 7, T. 45 N., R. 10 E., at bend in rd., at N. end of concrete bridge, on top of W. wing wall; chiseled square-----	<i>Feet</i> 764.33
Lake Villa, 1.8 mi. W. of, 0.25 mi. W. of SE. cor. sec. 31, T. 46 N., R. 10 E., 4 ft. N. of NW. corner of crossroads, 1 ft. E. of fence line; standard iron post with bronze cap stamped "1919 811"-----	811.362
Lake Villa, 1.8 mi. W. thence 1.0 mi. N. from, 0.25 mi. W. of NE. cor. sec. 31, T. 46 N., R. 10 E., in SE. angle of junction of T-rd. S., in root on W. side of oak tree used as gatepost; copper nail and washer-----	825.00
Lake Villa, 2.2 mi. N. and 2.0 mi. W. from, 2.4 mi. SW. of Antioch, 0.25 mi. S. of center of sec. 19, T. 46 N., R. 10 E., 10 ft. S. of SW. corner of junction of rd. W.; standard iron post with bronze cap stamped "1919 796"-----	796.523
Antioch, 1.6 mi. SW. of, at Grimm School, 0.25 mi. W. of SE. cor. sec. 18, T. 46 N., R. 10 E., in SW. corner schoolyard, in root on W. side of 12-in. maple tree; copper nail and washer-----	813.07
Antioch, 1.1 mi. SW. of, 0.2 mi. E. of center of sec. 18, T. 46 N., R. 10 E., 220 ft. N. of NW. corner of T-rd. W., in corner of lawn, in root on N. side of 30-in. oak tree; copper nail and washer-----	762.07

5. From crossroads 1.8 miles south of Fox Lake generally south along roads to point 0.6 mile south and 1 mile west from Wauconda (by S. L. Parker in 1919)

Fox Lake, 2.5 mi. S. of, 2.2 mi. N. of Volo, near N¼ cor. sec. 27, T. 45 N., R. 9 E., 5 ft. S. and 35 ft. W. from junction of T-rd. W., in root on W. side of 26-in. oak tree; copper nail and washer-----	785.58
Volo, 1.2 mi. N. of, near S¼ cor. sec. 27, T. 45 N., R. 9 E., on W. side of rd., directly opposite T-rd. E., in fence line, in top of knot 1 ft. above ground on E. side of 14-in. white-oak tree; copper nail and washer--	794.19
Volo, in NW¼ sec. 3, T. 44 N., R. 9 E., at SE. corner of Volo Cemetery; standard iron post with bronze cap stamped "1919 794"-----	793.801
Volo, 1.8 mi. S. and 0.5 mi. W. from, at Roseville School, near N. cor. secs. 15 and 16, T. 44 N., R. 9 E., 25 ft. S. of NW. corner of schoolyard, in fence line, in root on W. side of 30-in. black-oak tree; copper nail and washer-----	775.87
Volo, 2.8 mi. S. and 0.5 mi. W. from, 1.8 mi. N. and 2.0 mi. W. from Wauconda, about 300 ft. W. of E. cor. secs. 16 and 21, T. 44 N., R. 9 E., 5 ft. W. of SW. corner of T-rd. W., 1 ft. N. of fence line; standard iron post with bronze cap stamped "1919 756"-----	756.466
Wauconda, 1.0 mi. N. and 2.0 mi. W. from, 0.25 mi. N. of SE. cor. sec. 21, T. 44 N., R. 9 E., about 30 ft. N. of junction of T-rd. E., on W. side of rd., 10 ft. W. of fence line, in root on E. side of 14-in. black-oak tree; copper nail and washer-----	782.24
Wauconda, 0.3 mi. N. and 2.0 mi. W. from, at Slocum Lake School, near E¼ cor. sec. 28, T. 44 N., R. 9 E., on SE. corner of bottom concrete step of schoolhouse; chiseled square-----	755.50
Wauconda, 1.0 mi. W. of, 0.25 mi. N. of SE. cor. sec. 27, T. 44 N., R. 9 E., 30 ft. W. of SW. corner of junction of rd. S., 1 ft. N. of fence line, in root on W. side of 24-in. locust tree; copper nail and washer---	773.87

[Connects with line 1 in Barrington quadrangle]

6. From road junction 0.9 mile east of railroad station at Long Lake south and southeast along roads to point 1.3 miles north-west of Gilmer (by S. L. Parker in 1919)

Long Lake, 0.9 mi. E. thence 1.0 mi. S. from, 0.2 mi. S. and 0.9 mi. W. from R. R. sta. at Round Lake, near center of sec. 30, T. 45 N., R. 10 E., 100 ft. N. of NE. corner of crossroads, 1 ft. E. of fence line, in root on W. side of 12-in. hickory tree; copper nail and washer---	Feet 792.19
Round Lake, 1.3 mi. S. and 0.9 mi. W. from, near center of sec. 31, T. 45 N., R. 10 E., in NW. corner of intersection of Belvidere rd., on top of wing wall at W. end of concrete culvert; chiseled square-----	804.01
Round Lake, 1.8 mi. S. and 0.9 mi. W. from, 3.6 mi. NW. of Fremont Center, near S $\frac{1}{4}$ cor. sec. 31, T. 45 N., R. 10 E., 4 ft. N. of NE. corner of junction of E.-W. rd., 1 ft. W. of fence line; standard iron post with bronze cap stamped "1919 804"-----	803.884
Fremont Center, 2.7 mi. NW. of, 0.3 mi. S. of center of sec. 6, T. 44 N., R. 10 E., in SW. angle of crossroads, in root on E. side of 16-in. oak tree; copper nail and washer-----	817.14
Fremont Center, 1.7 mi. NW. of, about 400 ft. S. of N $\frac{1}{4}$ cor. sec. 8, T. 44 N., R. 10 E., at rd. fork, in NW. fence corner, in root on S. side of 18-in. maple tree; copper nail and washer-----	798.02
Fremont Center, about 0.25 mi. N. of center of sec. 16, T. 44 N., R. 10 E., 4 ft. N. of NE. corner of crossroads, 1 ft. W. of fence line; standard iron post with bronze cap stamped "1919 808"-----	808.002
Fremont Center, 0.9 mi. S. of, about 500 ft. S. of N $\frac{1}{4}$ cor. sec. 21, T. 44 N., R. 10 E., along public rd., 10 ft. W. of fence line, in pasture field, in root on E. side of 30-in. white-oak tree; copper nail and washer---	814.64
Fremont Center, 1.8 mi. S. of, near N $\frac{1}{4}$ cor. sec. 28, T. 44 N., R. 10 E., on W. side of rd., directly opposite rd. E., in fence line, in root on S. side of 18-in. maple tree; copper nail and washer-----	813.12
Fremont Center, 2.9 mi. SE. of, 1.8 mi. NW. of Gilmer, at Ames School, near SW. cor. sec. 27, T. 44 N., R. 10 E., 60 ft. E. of front entrance of schoolhouse, in root on N. side of 12-in. maple tree; copper nail and washer-----	829.46

[Connects with line 1 in Barrington quadrangle]

7. From crossroads 2.5 miles north and 1.6 miles east from Spring Grove east along State Highway 173 to point 3.6 miles west of Antioch (by J. F. Barksdale in 1923)

Spring Grove, 2.3 mi. N. and 2.9 mi. E. from, 5.1 mi. W. of Antioch, at Nelson City, in SW $\frac{1}{4}$ sec. 10, T. 46 N., R. 9 E., at bridge over Fox River, on top stone of NW. wing wall, 0.3 ft. from N. edge, 0.25 ft. from W. edge of wall; chiseled cross (Rivers and Lakes Comm. B. M.) -----	745.52
Fox River, under bridge, surface of water Oct. 11, 1923-----	736.5

8. At bridge over Fox River, near Johnsburg (by H. P. Jones in 1923; spur line leveled twice)

Johnsburg, N. end of upstream side of Johnsburg bridge over Fox River, at corner of wing wall and facing of abutment, 14 in. from edge of bridge seat plate (Rivers and Lakes Comm. B. M.)-----	746.99
---	--------

# 1450 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

9. From point 0.8 mile southeast of McHenry along road south about 2 miles along east side of Fox River (by J. F. Barksdale in 1923; spur line)

[Connects with line 1 in McHenry quadrangle]

McHenry, 1.0 mi. SE. of, near center of sec. 36, T. 45 N., R. 8 E., on W. side of rd., 50 ft. S. of bend in rd., 8 ft. W. of fence line, in root on E. side of 12-in. hickory tree; copper nail and washer-----	<i>Feet</i> 754.55
McHenry, 1.0 mi. SE. thence 1.2 mi. S. from, at Emerald Park School, 0.2 mi. S. of center of sec. 1, T. 44 N., R. 8 E., 250 ft. W. of school-house, 100 ft. S. of main rd., 15 ft. W. of rd. to dam across river, in root on E. side of 12-in. oak tree; copper nail and washer-----	750.36 •

[Latitude 42°15'–42°30'; longitude 88°30'–88°45']

WISCONSIN

5 1 8 4

2 BIG FOOT PRAIRIE

5 ALDEN

7 HARVARD

7 T. 46 N.

7 CAPRON

7 T. 45 N.

9 10

3 HARTLAND

5 GARDEN PRAIRIE

5 FRANKLINVILLE

5 MARENGO

6 T. 44 N.

R. 4 E. R. 5 E. R. 6 E.

1. From point 1.3 miles west of Garden Prairie east along road to Garden Prairie, thence generally north along roads to Capron, thence west 0.2 mile (by H. S. Senseney in 1917)

Garden Prairie, 1.0 mi. W. of, near NE. cor. sec. 34, T. 44 N., R. 4 E., on S. side of rd., 10 ft. W. of section line, in root of tree; copper nail and washer-----	<i>Feet</i> 785.42
Garden Prairie, at Methodist Church, 40 ft. N. and 20 ft. W. from crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No. 12 1917 780" (recovered in 1923)-----	779.724
Reference mark, 30 ft. W. of iron post, at entrance to church, on E. end of second step; chiseled square (recovered in 1923)-----	782.02
Garden Prairie, 1.5 mi. N. of, near E $\frac{1}{4}$ cor. sec. 23, T. 44 N., R. 4 E., in NW. angle of crossroads, on W. end of culvert; chiseled square--	790.16
Garden Prairie, 1.5 mi. N. and 1.0 mi. W. from, near E $\frac{1}{4}$ cor. sec. 22, T. 44 N., R. 4 E., 25 ft. N. and 35 ft. W. from junction of T-rd. N.; standard iron post with bronze cap stamped "792"-----	790.936
Garden Prairie, 3.0 mi. N. and 1.0 mi. W. from, near SE. cor. sec. 10, T. 44 N., R. 4 E., 65 ft. W. of rd., 3 ft. N. of section-line fence, in root of tree; copper nail and washer-----	812.67

Garden Prairie, 6.7 mi. N. and 1.0 mi. W. from, 3.2 mi. S. of Capron, in NW $\frac{1}{4}$ sec. 26, T. 45 N., R. 4 E., 50 ft. N. and 25 ft. W. from junction of rd. N.; standard iron post with bronze cap stamped "829"-----	828.469
Reference mark, in NW. angle of rd. junction, in root of tree; copper nail and washer-----	828.40

# 1452 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Capron, 2.4 mi. S. of, near W $\frac{1}{4}$ cor. sec. 23, T. 45 N., R. 4 E., in NE. angle of crossroads, on culvert; chiseled square-----	<i>Feet</i> 841.30
Capron, 1.4 mi. S. of, near W $\frac{1}{4}$ cor. sec. 14, T. 45 N., R. 4 E., in NE. angle of T-rd. E., on N. end of culvert; chiseled square (recovered in 1923)-----	908.71
Capron, in W. part of, 0.15 mi. S. of NE. cor sec. 10, T. 45 N., R. 4 E., 40 ft. S. and 25 ft. W. from junction of T-rd. W.; standard iron post with bronze cap stamped "903" (recovered in 1923)-----	902.238
Reference mark, on E. side of rd., 15 ft. S. of junction of T-rd. W., in root of tree; spike-----	903.81

[Continued in Belvidere quadrangle, line 9]

2. From point on Illinois-Wisconsin State line 2.2 miles west of north corner of Boone and McHenry Counties east along State-line road 0.2 mile to road junction, thence south to Capron (by C. H. Semper in 1917)

[Continued from Belvidere quadrangle, line 2]

Capron, 6.5 mi. N. of, 0.6 mi. S. and 0.9 mi. W. from Sharon, Wis., near NE. cor. sec. 3, T. 46 N., R. 4 E., 2.0 mi. W. of N. corner of Boone-McHenry Counties, in SW. angle of junction of T-rd. S., in root of mountain-ash tree; copper nail and washer (recovered in 1923)-----	982.96
Capron, 5.2 mi. N. of, near NW. cor. sec. 14, T. 46 N., R. 4 E., in SE. angle of crossroads, in root of large oak tree; copper nail and washer-----	977.14
Capron, 4.2 mi. N. of, near NW. cor. sec. 23, T. 46 N., R. 4 E., in SE. angle of crossroads; standard iron post with bronze cap stamped "945"-----	944.199
Capron, 3.0 mi. N. of, 0.15 mi. S. of NE. cor. sec. 27, T. 46 N., R. 4 E., at junction of T-rd. W., in root on W. side of large oak tree; copper nail and washer-----	926.49

3. From point 0.5 mile east of Hartland west along road to Hartland, thence south along road to point 1.8 miles south of Franklinville (leveled twice by H. P. Jones in 1923)

[Continued from McHenry quadrangle, line 4]

Hartland, about 500 ft. W. of crossing of Chicago & North Western Ry. and E.-W. rd., near quarter corner between secs. 22 and 23, T. 45 N., R. 6 E., 18 ft. N. of junction of T-rd. S., in concrete post; standard tablet stamped "Prim Trav Sta No 8 W 1921 HPJ 2"-----	927.223
Reference mark, 698 ft. S. of tablet, on W. side of rd., in root on E. side of 18-in. oak tree; copper nail and washer-----	920.33
Hartland, 0.8 mi. S. of, 0.2 mi. N. of W $\frac{1}{4}$ cor. sec. 26, T. 45 N., R. 6 E., on E. side of rd., in root on W. side of 30-in. oak tree; copper nail and washer-----	894.12
Hartland, 1.7 mi. S. of, 0.2 mi. S. of NE. cor. sec. 34, T. 45 N., R. 6 E., 25 ft. N. and 120 ft. W. from crossroads, in root on S. side of 24-in. oak tree; copper nail and washer-----	884.81
Hartland, 2.5 mi. S. of, near NW. cor. sec. 2, T. 44 N., R. 6 E., 15 ft. S. of township line, in root on E. side of 30-in. oak tree; copper nail and washer-----	889.14

Hartland, 3.2 mi. S. of, 2.7 mi. N. of Franklinville, 0.25 mi. N. of S. cor. secs. 2 and 3, T. 44 N., R. 6 E., 18 ft. S. of junction of T-rd. N., in concrete post; standard tablet stamped "Prim Trav Sta No 9 W 1921 HPJ 3"	<i>Feet</i> 858.525
Reference mark, 97 ft. E. of tablet, on top of S. head wall of concrete culvert; chiseled square	860.30
Franklinville, 1.5 mi. N. of, near NW. cor. sec. 14, T. 44 N., R. 6 E., 30 ft. S. and 85 ft. E. from crossroads, in root on W. side of 30-in. maple tree; copper nail and washer	860.88
Franklinville, 0.5 mi. N. of, near W. cor. secs. 14 and 23, T. 44 N., R. 6 E., 18 ft. E. of junction of T-rd. W., in root on E. side of 28-in. maple tree; copper nail and washer	842.90
Franklinville, 75 ft. S. and 15 ft. W. from crossroads, near E $\frac{1}{4}$ cor. sec. 22, T. 44 N., R. 6 E., in churchyard; standard iron post with bronze cap stamped "Prim Trav Sta No 13 W 1921"	835.650
Reference mark, 95 ft. S. and 35 ft. W. from crossroads, on SE. corner of porch floor, at entrance to church; chiseled square	837.20
Franklinville, 0.8 mi. S. of, 0.25 mi. S. of NW. cor. sec. 26, T. 44 N., R. 6 E., 18 ft. E. of junction of T-rd. W., in root on W. side of 30-in. maple tree; copper nail and washer	834.85
Franklinville, 1.5 mi. S. of, 1.5 mi. N. and 1.7 mi. E. from Union, 0.1 mi. E. of NW. cor. sec. 35, T. 44 N., R. 6 E., about 700 ft. E. of junction of T-rd. N., on top of NE. corner of SW. wing wall of concrete bridge; chiseled square	834.49

[Connects with line 3 in Genoa quadrangle]

4. From point 3.9 miles south and 0.9 mile east from Alden north-west and north to Illinois-Wisconsin State line, thence east to point 1.6 miles north and 3.5 miles west from Hebron (by H. P. Jones in 1923)

[Continued from McHenry quadrangle, line 6]

Alden, 3.9 mi. S. of, 0.1 mi. E. of SW. cor. sec. 35, T. 46 N., R. 6 E., 14 ft. N. and 23 ft. E. from angle in rd., in concrete post; standard tablet stamped "7 HPJ 1923"	943.664
Alden, 2.1 mi. S. of, 0.1 mi. W. of NE. cor. sec. 34, T. 46 N., R. 6 E., 19 ft. S. and 37 ft. W. from junction of rd. W., in root on E. side of 10-in. boxelder tree; copper nail and washer	951.22
Alden, 1.1 mi. S. of, 0.25 mi. W. of NE. cor. sec. 27, T. 46 N., R. 6 E., 37 ft. S. and 42 ft. E. from crossroads, in root on W. side of 22-in. maple tree; copper nail and washer	976.16
Alden, about 500 ft. E. of crossroads, in SE $\frac{1}{4}$ sec. 15, T. 46 N., R. 6 E., in NE. corner of schoolyard, in concrete post; standard tablet stamped "8 HPJ 1923"	1,002.577
Reference mark, at NW. corner of vestibule of schoolhouse, on concrete sidewalk; chiseled square	1,003.59
Alden, 0.7 mi. NW. of, near center of sec. 15, T. 46 N., R. 6 E., 18 ft. S. and 45 ft. E. from junction of rd. NE., in root on N. side of 18-in. oak tree; copper nail and washer	990.77
Alden, 1.4 mi. N. of, 0.25 mi. E. of center of sec. 10, T. 46 N., R. 6 E., 30 ft. N. and 28 ft. W. from crossroads, in root on W. side of 24-in. maple tree; copper nail and washer	1,001.01

# 1454 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Alden, 2.5 mi. N. and 0.5 mi. E. from, 1.6 mi. N. and 3.8 mi. W. from Hebron, 0.2 mi. E. of NW. cor. fractional sec. 2, T. 46 N., R. 6 E. (Ill.), 0.2 mi. E. of S¼ cor. sec. 32, T. 1 N., R. 17 E. (Wis.), 20 ft. N. of center line of rd., at point where rd. turns SE. from Illinois-Wisconsin State line; standard iron post with bronze cap stamped "Prim Trav Sta No 2 W 1921" <sup>90</sup> -----	Feet 1,016.928
Reference mark, 36 ft. S. and 45 ft. W. from tablet, in root on N. side of 15-in. walnut tree; copper nail and washer-----	1,017.31

[Continued in McHenry quadrangle, line 7]

5. From Marengo north along road to Big Foot Prairie, thence west along Illinois-Wisconsin State line road to point 2.2 miles west of north corner of Boone and McHenry Counties (by S. R. Archer in 1923)

[Continued from Genoa quadrangle, line 5]

Marengo, on W. side of N. State Street, 10 ft. S. of center line of Telegraph Street, in root on NE. side of 24-in. elm tree; copper nail and washer-----	807.15
Marengo, 1.1 mi. N. of, 0.2 mi. S. of NE. cor. sec. 26, T. 44 N., R. 5 E., 200 ft. N. of bridge over Kishwaukee River, 75 ft. S. of bridge over overflow, 18 ft. W. of fence, on W. side of rd., in field, in root on SE. side of 24-in. elm tree; copper nail and washer-----	795.71
Marengo, 1.9 mi. N. of, 0.15 mi. N. of E¼ cor. sec. 23, T. 44 N., R. 5 E., 30 ft. N. and 35 ft. W. from crossroads, 5 ft. W. of fence corner, in concrete post; aluminum tablet stamped "48 A 1923"-----	833.894
Reference mark, 135 ft. SE. of crossroads, in root on N. side of 24-in. oak tree, westernmost of two trees standing 20 ft. apart; copper nail and washer-----	833.60
Marengo, 3.1 mi. N. of, 0.2 mi. S. of NE. cor. sec. 14, T. 44 N., R. 5 E., on W. side of rd., at NE. corner of yard of dwelling of J. T. Murphy, in root on E. side of willow tree; copper nail and washer-----	881.05
Marengo, 4.3 mi. N. of, near NW. cor. sec. 12, T. 44 N., R. 5 E., 135 ft. E. of crossroads, on S. side of E.-W. rd., in root on S. side of 12-in. oak tree; copper nail and washer-----	896.42
Marengo, 4.3 mi. N. and 0.5 mi. E. from, near S¼ cor. sec. 2, T. 44 N., R. 5 E., 60 ft. N. and 120 ft. E. from junction of T-rd. N., in field, in root on W. side of 10-in. oak tree; copper nail and washer-----	922.60
Marengo, 5.3 mi. N. and 0.5 mi. W. from, near S¼ cor. sec. 35, T. 45 N., R. 5 E., 45 ft. N. of township line, 175 ft. S. of concrete bridge, on W. side of rd., at fence corner, in root on W. side of 12-in. maple tree; copper nail and washer-----	853.38
Marengo, 6.3 mi. N. and 0.5 mi. W. from, 5.3 mi. S. of Harvard, near N¼ cor. sec. 35, T. 45 N., R. 5 E., 30 ft. S. and 170 ft. E. from junction of T-rd. E., on S. side of rd., in concrete post; standard tablet stamped "A 49 1923"-----	880.876
Reference mark, 25 ft. S. and 70 ft. E. from junction of T-rd. E., in root 4 in. underground, on NW. side of 18-in. oak tree; copper nail and washer-----	878.32
Harvard, 4.3 mi. S. of, near N¼ cor. sec. 26, T. 45 N., R. 5 E., in SE. angle of crossroads, on E. head wall of concrete culvert; chiseled square-----	875.33

<sup>90</sup> This bench mark is in Wisconsin.

Harvard, 3.2 mi. S. of, near S $\frac{1}{4}$ cor. sec. 14, T. 45 N., R. 5 E., 275 ft. N. of junction of T-rd. E., on W. side of rd., 5 ft. E. of fence, in root on E. side of 24-in. oak tree; copper nail and washer-----	<i>Feet</i> 889.64
Harvard, 2.2 mi. S. of, near N $\frac{1}{4}$ cor. sec. 14, T. 45 N., R. 5 E., 50 ft. S. and 25 ft. W. from crossroads, 20 ft. S. of fence corner, in concrete post; standard tablet stamped "50 A 1923"-----	912.834
Reference mark, in NW. angle of crossroads, at SE. corner of yard of dwelling, in root on SE. side of forked catalpa tree; copper nail and washer-----	912.15
Harvard, 1.5 mi. S. of, 0.25 mi. N. of center of sec. 11, T. 45 N., R. 5 E., 100 ft. W. of junction of rd. E., in field, 10 ft. N. of fence, in root on SE. side of 42-in. oak tree; copper nail and washer-----	910.29
Harvard, 0.8 mi. S. of, near center of sec. 2, T. 45 N., R. 5 E., 55 ft. S. and 25 ft. E. from crossroads, in second tree S. of NW. corner of yard of dwelling, in root on NW. side of 12-in. elm tree; copper nail and washer-----	928.40
Harvard, on South Ayer Street, in NE. corner of intersection of rd. S. to Marengo, on concrete curb; chiseled square-----	927.63
Harvard, in front of main entrance to Keller & Krekel Company department store, on E. side of North Ayer Street, 55 ft. SW. of intersection of East Summer Street, on curb; chiseled square-----	963.44
Harvard, 45 ft. S. and 35 ft. W. from intersection of Hart Boulevard and East Diggins Street, in NE. corner of schoolyard, 15 in. W. of sidewalk, in concrete post; aluminum tablet stamped "51 A 1923"---	966.007
Reference mark, in NW. corner of schoolyard, in angle of sidewalk intersection, in root on W. side of 15-in. elm tree; copper nail and washer-----	961.68
Harvard, 1.1 mi. N. of, near center of SE $\frac{1}{4}$ sec. 26, T. 46 N., R. 5 E., on SE. side of rd., at curve, 7 ft. N. and 28 ft. E. from SW. corner of yard of dwelling, in root 3 in. underground, on NE. side of 24-in. oak tree, westernmost of two trees standing 15 ft. apart; copper nail and washer-----	948.65
Harvard, 2.0 mi. NE. of, 0.1 mi. E. of SW. cor. sec. 24, T. 46 N., R. 5 E., 80 ft. E. of junction of rd. E., in field, in root on W. side of large willow tree; copper nail and washer-----	957.52
Harvard, 3.0 mi. NE. of, 2.5 mi. S. of Big Foot Prairie, near Oak Grove School, 0.2 mi. W. of N $\frac{1}{4}$ cor. sec. 24, T. 46 N., R. 5 E., in SW. angle of crossroads, 2 ft. S. and 1 ft. E. from fence corner, in concrete post; standard tablet stamped "52 A 1923"-----	942.097
Reference mark, 125 ft. S. of crossroads, on E. side of rd., on W. end of concrete base of brick side wall, on S. side of steps, at entrance to schoolhouse; chiseled square-----	944.44
Big Foot Prairie, 1.8 mi. S. of, 0.25 mi. N. of center of sec. 13, T. 46 N., R. 5 E., at angle in rd., at NE. corner of yard of dwelling, in root 3 in. underground on E. side of 24-in. maple tree; copper nail and washer-----	967.90
Big Foot Prairie, 1.0 mi. S. of, near center of sec. 12, T. 46 N., R. 5 E., 210 ft. N. of crossroads, on W. side of rd., in yard of dwelling, in root on NE. side of 30-in. locust tree; copper nail and washer-----	984.00

Big Foot Prairie, at Illinois-Wisconsin State line, near SW. cor. sec. 34, T. 1 N., R. 16 E. (Wis.), 35 ft. N. and 45 ft. E. from crossroads, in SW. corner of yard of dwelling, in root on N. side of 18-in. maple tree; copper nail and washer <sup>97</sup> -----	Feet 953.95
Big Foot Prairie, 1.0 mi. W. of, near N $\frac{1}{4}$ cor. fractional sec. 2, T. 46 N., R. 5 E., 30 ft. S. and 40 ft. E. from junction of T-rd. N., at fence corner, in root on NW. side of 15-in. maple tree; copper nail and washer-----	948.46
Big Foot Prairie, 2.0 mi. W. of, near N $\frac{1}{4}$ cor. fractional sec. 3, T. 46 N., R. 5 E., in SE. angle of crossroads, 5 ft. S. of fence corner, in concrete post; standard tablet stamped "53 A 1923"-----	938.859
Reference mark, in SW. angle of crossroads, in root on W. side of 24-in. maple tree; copper nail and washer-----	939.24
Big Foot Prairie, 3.1 mi. W. of, 0.15 mi. W. of N $\frac{1}{4}$ cor. fractional sec. 4, T. 46 N., R. 5 E., 150 ft. W. of bridge over Piscasaw Creek, on W. wing wall, at S. end of concrete bridge over overflow; chiseled square-----	924.51
Big Foot Prairie, 3.5 mi. W. from, near N. cor. fractional secs. 4 and 5, T. 46 N., R. 5 E., 625 ft. W. of junction of T-rd. S., 30 ft. S. and 15 ft. W. from junction of T-rd. N., in fence corner, in root on N. side of 24-in. maple tree; copper nail and washer-----	947.05
Big Foot Prairie, 4.0 mi. W. of, near State Line School, near N $\frac{1}{4}$ cor. fractional sec. 5, T. 46 N., R. 5 E., 30 ft. S. and 60 ft. W. from crossroads, 20 ft. W. of fence corner, in root on NE. side of 12-in. oak tree; copper nail and washer-----	944.28
Big Foot Prairie, 5.0 mi. W. of, 0.5 mi. E. of N. corner of Boone and McHenry Counties, near N $\frac{1}{4}$ cor. fractional sec. 6, T. 46 N., R. 5 E., in SE. angle of crossroads, 2 ft. S. of fence corner, in concrete post; standard tablet stamped "54 A 1923"-----	961.071
Reference mark, 30 ft. N. and 50 ft. E. from crossroads, 30 ft. E. of SE. corner of orchard, inside fence, in root on NW. side of 15-in. maple tree; copper nail and washer-----	961.63
Big Foot Prairie, 5.8 mi. W. of, about 1 mi. SE. of Sharon, Wis., 0.2 mi. W. of S $\frac{1}{4}$ cor. sec. 34, T. 1 N., R. 15 E. (Wis.), 0.25 mi. W. of N. corner of Boone and McHenry Counties, 130 ft. E. of intersection of Illinois-Wisconsin State line and Chicago & North Western Ry., in NE. angle of junction of rd. NW., 13 ft. E. of fence corner, in SW. corner of yard of dwelling, in root on S. side of 24-in. maple tree; copper nail and washer-----	972.45
Sharon, Wis., 0.6 mi. S. of, 6.5 mi. N. and 1.0 mi. E. from Capron, near N. cor. fractional secs. 1 and 2, T. 46 N., R. 4 E., 140 ft. E. of junction of T-rd. N., in SW. angle of junction of T-rd. S., in NE. corner of yard of dwelling, in root on SE. side of 12-in. maple tree; copper nail and washer-----	1,018.70
[Connects with line 2 in Belvidere quadrangle]	
6. From Garden Prairie southeast along U. S. Highway 20 to point about 2 miles west of Marengo (by G. F. Williams in 1923)	
Garden Prairie, 0.9 mi. E. of, in NE $\frac{1}{4}$ sec. 36, T. 44 N., R. 4 E., 580 ft. W. of Boone-McHenry county line, on S. side of highway, on E. end of head wall of concrete culvert; chiseled square-----	785.08
Garden Prairie, 2.0 mi. E. of, in NW $\frac{1}{4}$ sec. 32, T. 44 N., R. 5 E., 230 ft. E. of junction of rd. S., on S. side of highway, on W. head wall of concrete culvert under driveway to dwelling; chiseled square-----	784.94

<sup>97</sup> This bench mark is in Wisconsin.

Garden Prairie, 3.2 mi. E. of, in NW¼ sec. 33, T. 44 N., R. 5 E., 35 ft. S. and 30 ft. E. from junction of rd. N., on S. side of highway, 20 ft. E. of driveway to dwelling, 1 ft. N. of fence; standard iron post with bronze cap stamped "7 W 1923"-----	<i>Feet</i> 791.860
Reference mark, 20 ft. S. and 300 ft. E. from rd. junction, 3 ft. E. of W. end of S. head wall of concrete culvert; chiseled square-----	794.01
Garden Prairie, 3.7 mi. E. of, 2.3 mi. W. of Marengo, near center of NE¼ sec. 33, T. 44 N., R. 5 E., on NE. side of junction of T-rd. S., in fence corner, on N. side of 15-in. maple tree; copper nail and washer-----	794.93

[Continued in Genoa quadrangle, line 9]

7. From Capron along roads alternately east and south to point near northeast corner of sec. 16, T. 45 N., R. 6 E., thence southeast along Chicago & North Western Railway to Hartland (by G. F. Williams in 1923; the last six miles releveled by J. F. Barksdale in same year)

Capron, at SE. corner of corporation boundary, near center of sec. 11, T. 45 N., R. 4 E., in NW. angle of junction of T-rd. N., 20 ft. N. of fence corner, in field, 1 ft. W. of fence, in root on W. side of 3-in. hickory tree; copper nail and washer-----	923.76
Capron, 0.4 mi. S. and 1.5 mi. E. from, near center of sec. 12, T. 45 N., R. 4 E., 25 ft. N. and 50 ft. W. from junction of lane S., 40 ft. W. of fence corner, 2 ft. N. of fence, in root 3 in. underground, on S. side of wild-cherry tree; copper nail and washer-----	890.54
Capron, 0.9 mi. S. and 2.0 mi. E. from, near NW. cor. sec. 18, T. 45 N., R. 5 E., in SE. angle of junction of Boone-McHenry county-line rd. and T-rd. E., 15 ft. E. of fence corner, in root on N side of 30-in. white-oak tree; copper nail and washer-----	880.29
Capron, 0.9 mi. S. and 2.5 mi. E. from, near S¼ cor. sec. 7, T. 45 N., R. 5 E., at W. abutment of iron bridge over Piscasaw Creek, on NE. corner of abutment; chiseled square-----	850.19
Capron, 0.9 mi. S. and 2.8 mi. E. from, 2.5 mi. SW. of Chemung, 0.25 mi. E. of S¼ cor. sec. 7, T. 45 N., R. 5 E., in NW angle of crossroads, 6 ft. N. of fence corner, in concrete post; aluminum tablet stamped "11 W 1923"-----	856.920
Reference mark, 30 ft. S. and 75 ft. E. from crossroads, 45 ft. E. of fence corner, 2 ft. S. of fence, in root on NW. side of 5-in. black-oak tree; copper nail and washer-----	858.25
Capron, 0.9 mi. S. and 4.0 mi. E. from, 2.0 mi. S. of Chemung, near NW. cor. sec. 16, T. 45 N., R. 5 E., in SE. angle of crossroads, 35 ft. S. and 3 ft. E. from fence corner, in root on S. side of 10-in. maple tree; copper nail and washer-----	896.40
Chemung, 2.0 mi. S. and 1.1 mi. E. from, 0.13 mi. E. of NW. cor. sec. 15, T. 45 N., R. 5 E., on S. side of rd., in root on N. side of 48-in. willow tree; copper nail and washer-----	886.53
Chemung, 2.0 mi. S. and 2.1 mi. E. from, 2.3 mi. S. and 0.4 mi. W. from Harvard, 0.1 mi. E. of NW. cor. sec. 14, T. 45 N., R. 5 E., at bridge over Rush Creek, on top of SE. wing wall; chiseled square--	897.65
Harvard, 2.3 mi. S. and 0.8 mi. E. from, 0.28 mi. E. of NW. cor. sec. 13, T. 45 N., R. 5 E., 40 ft. S. of rd., 100 ft. E. of driveway, in root on E. side of 4-in. elm tree; copper nail and washer-----	962.97
Harvard, 2.3 mi. S. and 1.5 mi. E. from, near SW. cor. sec. 7, T. 45 N., R. 6 E., 6 ft. N. and 15 ft. E. from fence corner, in field, in root on E. side of 14-in maple tree; copper nail and washer-----	1,048.94

# 1458 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Harvard, 2.3 mi. S. and 2.7 mi. E. from, 0.2 mi. E. of SW. cor. sec. 8, T. 45 N., R. 6 E., in yard of dwelling of J. H. Thompson, 125 ft. E. of driveway, 8 ft. N. of fence, in root 3 in. underground, on S. side of 20-in. white-oak tree; copper nail and washer-----	<i>Feet</i> 1,031.43
Harvard, 2.3 mi. S. and 3.5 mi. E. from, 1.5 mi. N. and 2.0 mi. W. from Hartland, near SE. cor. sec. 8, T. 45 N., R. 6 E., 35 ft. N. and 20 ft. W. from junction of T-rd. S., 8 ft. W. of fence corner, in concrete post; standard tablet stamped "12 W 1923"-----	985.984
Reference mark, 250 ft. W. of rd. junction, 20 ft. W. of W. end of gate, 15 ft. N. of fence, in root 4 in underground, on S. side of 48-in. oak tree; copper nail and washer-----	987.33
Hartland, 2.0 mi. NW. of, 0.1 mi. W. of NE. cor. sec. 16, T. 45 N., R. 6 E., 100 ft. S. and 100 ft. E. from crossing of C. & N. W. Ry. and E.-W. rd., 40 ft. SE. of right-of-way fence and gate to field, 25 ft. S. of field fence, in root on N. side of 24-in. oak tree; copper nail and washer---	937.99
Hartland, 1.4 mi. NW. of, in NW¼ sec. 15, T. 45 N., R. 6 E., at C. & N. W. Ry. bridge over North Branch Kishwaukee River, on NE. corner of SE. wing wall of S. masonry abutment; chiseled square-----	930.38
Hartland, 0.6 mi. NE. of, in NE¼ sec. 22, T. 45 N., R. 6 E., on E. end of N. abutment of C. & N. W. Ry. bridge, 9 in. E. of E. end of timber, on N. parapet; chiseled square-----	934.83
8. From Big Foot Prairie east along Illinois-Wisconsin State-line road to point 2.5 miles north and 0.5 mile east from Alden (by G. F. Williams in 1923)	
Big Foot Prairie, 0.8 mi. E. of, 0.2 mi. W. of N¼ cor. fractional sec. 6, T. 46 N., R. 6 E., 15 ft. S. of junction of T-rd. N., 2 ft. from fence; standard iron post with bronze cap stamped "Prim Trav Sta No 1 W 1921"-----	1,002.401
Reference mark, 40 ft. S. and 5 ft. E. from W. end of gate to field, in root on N. side of 12-in. hickory tree; copper nail and washer-----	1,003.76
Big Foot Prairie, 1.5 mi. E. of, near NW. cor. fractional sec. 5, T. 46 N., R. 6 E., in SE. angle of junction of T-rd. S., 30 ft. S. and 10 ft. E. from fence corner, in field, in trunk of 6-in. willow tree; copper nail and washer-----	1,070.23
Big Foot Prairie, 2.5 mi. E. of, near S¼ cor. sec. 36, T. 1 N., R. 16 E. (Wis.), in NE. angle of crossroads, 1 ft. E. of fence corner, in concrete post; aluminum tablet stamped "14 W 1923" <sup>88</sup> -----	1,153.457
Reference mark, 30 ft. S. and 90 ft. E. from crossroads, in root on W. side of 12-in. oak tree; copper nail and washer-----	1,151.72
Big Foot Prairie, 3.7 mi. E. of, 2.5 mi. N. and 0.5 mi. W. from Alden, 0.25 mi. E. of NW. cor. fractional sec. 3, T. 46 N., R. 6 E., 100 ft. W. of junction of T-rd. N., on SW. wing wall of concrete culvert; chiseled square-----	1,070.16
9. From road junction 4.3 miles north and 0.5 mile west from Marengo west along road 2.1 miles to bridge over Rush Creek (by G. F. Williams in 1923; spur line leveled twice)	
Marengo, 4.3 mi. N. and 2.6 mi. W. from, 0.1 mi. W. of S¼ cor. sec. 4, T. 44 N., R. 5 E., 500 ft. W. of junction of T-rd. N., in NE. masonry wing wall of bridge over Rush Creek, 3 ft. E. of E. end of N. iron span; aluminum tablet stamped "Prim Trav Sta No 11 W 1921 W 10"	825.422

<sup>88</sup> This bench mark is in Wisconsin.

Reference mark, on SW. corner of bridge seat at S. end of E. abutment, 2 in S. of E. end of S. iron span; chiseled square-----	<i>Feet</i> 825.22
10. From crossroads 4.3 miles north of Marengo east along road 1 mile to intersection of range-line road (by J. F. Barksdale in 1923; spur line leveled twice)	
Marengo, 4.3 mi. N. and 1.0 mi. E. from, 64 ft. S. and 16 ft. W. from E. cor. secs. 1 and 12, T. 44 N., R. 5 E., in SW. angle of offset cross- roads, in concrete post; standard tablet stamped "I B 1923"-----	963.727
Reference mark, in SW. angle of crossroads, 100 ft. S. of fence corner, 80 ft. W. of fence, in root on W. side of 14-in. white-oak tree; copper nail and washer-----	964.29

# HENNEPIN QUADRANGLE

[Latitude 41°15'–41°30'; longitude 89°15'–89°30']

## BUREAU AND PUTNAM COUNTIES

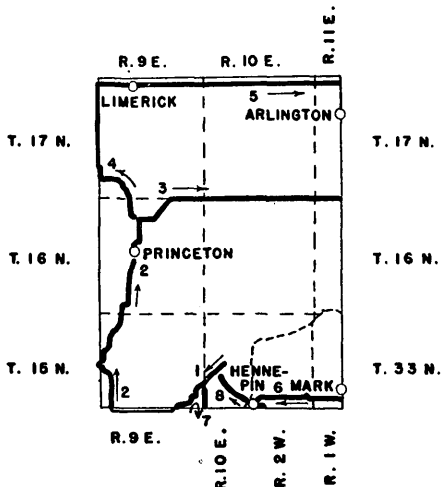


FIGURE 244.—Lines of leveling in Hennepin quadrangle.

1. From Bureau southwest along road 4.3 miles to point near south quarter corner sec. 26, T. 15 N., R. 9 E. (by Henry Bücher in 1908)

Bureau, in SW. part of, on Peoria Branch of Chicago, Rock Island & Pacific Ry., at SW. end of NW. plate girder of bridge over Illinois and Mississippi Canal, 5.1 in. from NE. edge of casting; center of cross cut in top of base of cast-iron bridge seat (U. S. C. E. T. B. M. 319) -----

Feet  
472.000

Bureau, 1.1 mi. SW. of, on SW. bank of Bureau Creek, in SW. angle of rd. junction, in front yard of dwelling of D. B. George, 23.6 ft. E. of E. corner of house; U. S. C. E. B. M. 69<sup>80</sup>

cap on iron pipe ----- 462.283  
bolt in limestone block ----- 458.339

[Continued in Lacon quadrangle, line 1]

2. From point 2.9 miles south and 0.5 mile east from Tiskilwa generally north along roads by way of Tiskilwa to Princeton (by Henry Bücher in 1908)

[Continued from Lacon quadrangle, line 1]

Tiskilwa, in NE. part of, 0.2 mi. W. of NE. cor. sec. 18, T. 15 N., R. 9 E., in NE. angle of rd. junction, 5 ft. E. of fence corner, 1 ft. S. of fence; standard iron post with bronze cap stamped "1908 512"<sup>1</sup> -----

511.410

<sup>80</sup> In 1927 it was reported that this bench mark was covered by concrete pavement of highway.

<sup>1</sup> In 1941 this bench mark was tied to U. S. C. & G. S. standard disk stamped "K 51 1934," elevation 520.711 ft., and monel-metal rivet designated "RV 2," elevation 521.915 ft.

Tiskilwa, 0.4 mi. NE. of, in SE $\frac{1}{4}$ sec. 7, T. 15 N., R. 9 E., at NE. corner of iron bridge over Bureau Creek, on capstone of abutment, 6 in. E. of corner of truss, near S. edge; chiseled square-----	<i>Feet</i> 512.82
Illinois and Mississippi Canal, under bridge; surface of water Aug. 11, 1908-----	514.6
Tiskilwa, 3.0 mi. NE. of, 2.8 mi. S. and 0.6 mi. W. from Bureau County courthouse at Princeton, near center of sec. 32, T. 16 N., R. 9 E., in SE. angle of junction of T-rd. S., 10 ft. S. and 1 ft. W. from fence corner; standard iron post with bronze cap stamped "1908 686"---	685.540
Princeton, in SE. corner of grounds of Bureau County courthouse, 36 ft. N. of N. curb of South Street, 3.6 ft. W. of W. edge of concrete sidewalk along W. side of Second Street; standard iron post with bronze cap stamped "1908 719" (recovered in 1921)-----	718.687
3. From Princeton northeast to crossroads 2.5 miles southwest of Dover, thence east along township-line road to point 4.5 miles south of Arlington (by Henry Bücher in 1908)	
Princeton, 2.4 mi. along Dover rd. NE. of Bureau County courthouse, 3.8 mi. SW. of Dover, 0.1 mi. W. of S $\frac{1}{4}$ cor. sec. 3, T. 16 N., R. 9 E., in NE. angle of crossroads, in schoolyard; standard iron post with bronze cap stamped "1908 735"-----	735.369
Dover, 2.0 mi. S. of, 1.1 mi. S. and 1.5 mi. W. from Malden, near cor. Tps. 16 and 17 N., Rs. 9 and 10 E., in SE. angle of crossroads, 25 ft. S. and 1 ft. W. from fence corner; standard iron post with bronze cap stamped "1908 715"-----	714.717
Malden, 1.1 mi. S. and 2.0 mi. E. from, near N $\frac{1}{4}$ cor. sec. 3, T. 16 N., R. 10 E., in SE. angle of offset crossroads, 1 ft. N. and 25 ft. E. from fence corner, opposite rd. N.; standard iron post with bronze cap stamped "1908 728"-----	727.399
Malden, 1.1 mi. S. and 4.5 mi. E. from, about 3 mi. N. of Seatonville, 1.5 mi. N. and 3.0 mi. W. from Ladd, near cor. Tps. 16 and 17 N., Rs. 10 and 11 E., on N. side of rd., at junction of T-rd. S., 1 ft. S. and 26 ft. W. from fence corner; standard iron post with bronze cap stamped "1908 687"-----	686.527

[Continued in La Salle quadrangle, line 1]

4. From road junction 1.7 miles north of Princeton along roads northwest and west to point 3.8 miles north and 1.8 miles west from Princeton (by Henry Bücher in 1908; releveled by E. O. Brooks in 1921)

Princeton, 2.3 mi. N. of Bureau County courthouse, near W $\frac{1}{4}$ cor. sec. 4, T. 16 N., R. 9 E., on E. side of rd., 50 ft. N. of rd. junction, in field, on top of concrete wall; chiseled square-----	671.74
Princeton, 3.9 mi. NW. of, near N $\frac{1}{4}$ cor. sec. 32, T. 17 N., R. 9 E., in SW. angle of junction of T-rd. W., 1 ft. N. and 39 ft. W. from fence corner; standard iron post with bronze cap stamped "1908 669"---	669.250

[Continued in Buda quadrangle, line 1]

5. From point 1.8 miles west of Limerick east along township-line road to point 1.5 miles north of Arlington (by Henry Bücher in 1908)

[Continued from Buda quadrangle, line 1]

Limerick, 1.8 mi. E. of, near SE. cor. sec. 34, T. 18 N., R. 9 E., in NW. angle of crossroads, 1 ft. S. and 26 ft. W. from fence corner; standard iron post with bronze cap stamped "1908 736"-----	735.986
---	---------

# 1462 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Limerick, 4.8 mi. E. of, near NW. cor. sec. 5, T. 17 N., R. 10 E., 50 ft. SE. of crossroads, at fence corner; standard iron post with bronze cap stamped "Prim Trav Sta No 9 1908 749"-----	<i>Feet</i> 748.816
Limerick, 8.8 mi. E. of, 1.5 mi. N. and 2.4 mi. W. from Arlington, near NW. cor. sec. 1, T. 17 N., R. 10 E., in SW. angle of crossing of NE-SW. rd., 2 ft. N. and 12 ft. W. from fence corner; standard iron post with bronze cap erroneously stamped "1908 726"-----	767.122
Arlington, 1.5 mi. N. and 1.4 mi. W. from, near SW. cor. sec. 31, T. 18 N., R. 11 E., on N. head wall of concrete culvert, 5 ft. from W. end; chiseled square-----	763.92

[Continued in La Salle quadrangle, line 3]

6. From point 1.2 miles west of Granville west along road to Hennepin, thence northwest to road junction 1.1 miles southwest of Bureau (by Henry Bücher in 1908)

[Continued from La Salle quadrangle, line 2]

Granville, 1.8 mi. W. of, 0.5 mi. S. and 0.5 mi. W. from Mark, 0.1 mi. W. of E $\frac{1}{4}$ cor. sec. 7, T. 32 N., R. 1 W., in SE. angle of junction of T-rd. S., 14 ft. E. of fence corner; standard iron post with bronze cap stamped "Prim Trav Sta No 5 1908 690" (recovered in 1929)----	690.304
Mark, 0.5 mi. S. and 2.8 mi. W. from, 2.0 mi. E. of Hennepin, 0.25 mi. W. of E $\frac{1}{4}$ cor. sec. 11, T. 32 N., R. 2 W., in SW. angle of crossroads, 15 ft. S. and 1 ft. E. from fence corner; standard iron post with bronze cap stamped "1908 556"-----	555.565
Hennepin, in SE. corner of grounds of Putnam County courthouse, 50 ft. NW. of intersection of Fifth and High Streets; standard iron post with bronze cap stamped "Prim Trav Sta No 13 1908 505" (recovered in 1929)-----	505.017
Illinois River, at Hennepin ferry; surface of water Aug. 28, 1908----	438.8
Hennepin, at ferry landing on W. bank of Illinois River, near edge of water, 90 ft. N. of rd., in root on NW. side of large cottonwood tree; rail spike-----	443.00

7. From point 4.3 miles southwest of Bureau northeast along winding road to junction of State Highway 29, thence south along highway to point 4.7 miles north of Putnam (by J. A. Shumate in 1927)

[A jog from Lacon quadrangle, line 5]

Bureau, 3.5 mi. SW. of, in SW $\frac{1}{4}$ sec. 25, T. 15 N., R. 9 E., at angle in rd. from E. to N., on NW. side of rd., at fence line, in root on N. side of lone oak tree; copper nail and washer-----	648.65
Bureau, 2.3 mi. SW. of, near center of SE $\frac{1}{4}$ sec. 24, T. 15 N., R. 9 E., in W. end of S. abutment of 20-ft.-span concrete bridge; standard tablet stamped "15 JS 1927"-----	496.801
Reference mark, 20 ft. E. of tablet, on wing wall at E. end of S. abutment; chiseled square-----	496.89
Bureau, 2.2 mi. SW. of, 5.6 mi. N. of Putnam, along State Highway 29, near E. cor. secs. 24 and 25, T. 15 N., R. 9 E., at 30-ft.-span bridge, on W. end of N. abutment; chiseled square (recovered in 1929)---	470.07

[Continued in Lacon quadrangle, line 5]

8. From Hennepin northwest to junction of State Highway 29,  
thence south along highway to point 3.2 miles southwest of  
Bureau (by E. E. Harris in 1929)

Hennepin, 2.8 mi. NW. of, 1.1 mi. SW. of Bureau, on E. side of highway, 200 ft. N. of E.-W. rd., at R. R. bridge over Bureau Creek, on top of W. end of S. concrete abutment; chiseled square-----	<i>Feet</i> 460.26
Bureau, 1.9 mi. SW. of, 0.15 mi. S. of E $\frac{1}{4}$ cor. sec. 24, T. 15 N., R. 9 E., in NW. angle of junction of rd. W. to Tiskilwa, on head wall of con- crete culvert; chiseled square-----	481.03

[Connects with line 5 in Lacon quadrangle]

# HIGHWOOD QUADRANGLE<sup>1</sup>

[Latitude 42°00'–42°15'; longitude 87°45'–88°00']

COOK AND LAKE COUNTIES

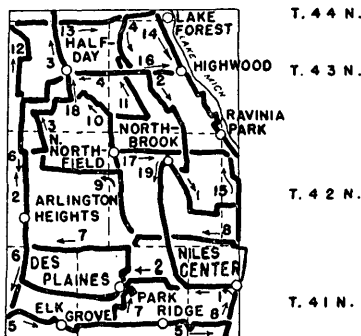


FIGURE 245.—Lines of leveling in Highwood quadrangle.

1. From Niles Center along roads west to Shermerville road, thence north to Shermerville (Northbrook), thence southeast and east to Winnetka (by E. S. Smith in 1897)

[Continued from Evanston quadrangle, line 1]

Niles Center, at SE. corner of St. Peter's Church, 10 ft. E. of door, at projecting buttress, in front face of stone water table; standard tablet stamped "Chgo 623" and "Prim Trav Sta No 55 K 1924" (recovered in 1925)-----

Feet  
622.768

Shermerville (Northbrook), 0.8 mi. S. of, near quarter corner between secs. 15 and 16, T. 42 N., R. 12 E., in NW. corner of crossroads; standard iron post with bronze cap stamped "Chgo 650" (recovered in 1925)-----

650.953

[Continued in Evanston quadrangle, line 2]

2. From crossroads about 4 miles east of Des Plaines along roads generally west to point 3 miles south of Arlington Heights, thence north and east to Halfday, thence east and south to Northbrook (by E. S. Smith in 1897; releveled from Des Plaines to point 3.6 miles north of Arlington Heights by Henry Bücher in 1905)

Des Plaines, at NE. corner of Town Hall, on E. side, in front face of stone foundation; standard tablet stamped "Chgo 642" (restamped "1905 Adj 643" in 1905; recovered in 1925)<sup>2</sup>-----

642.442

<sup>1</sup> Subdivided into 7½-minute quadrangles Highland Park, Wheeling, Arlington Heights, and Park Ridge, which are mapped on a larger scale.

<sup>2</sup> In 1937 this bench mark was replaced by a standard tablet set in face of new Municipal Building. See following description.

Des Plaines, at new, two-story Municipal Building, 60 ft. NE. of Miner Street, 355 ft. NW. of Lee Street, in SW. face of building, 1.5 ft. NW. of SW. corner, 1.5 ft. above water table; standard tablet (set in 1937) -----	<i>Feet</i> 644.932
Des Plaines, 0.5 mi. S. and 2.5 mi. W. from, 3.0 mi. S. thence 3.0 mi. SE. from Arlington Heights, near center of sec. 24, T. 41 N., R. 11 E., 0.5 mi. W. of crossroads, on S. side of rd., 130 ft. E. of driveway to residence of H. Beer, 2.5 ft. E. of line fence, 1 ft. N. of fence; standard iron post with bronze cap stamped "1905 Adj 666" (set in 1905; later reported destroyed) -----	665.320
Arlington Heights, 3.0 mi. S. of, about 0.2 mi. W. of E $\frac{1}{4}$ cor. sec. 16, T. 41 N., R. 11 E., in NE. angle of crossroads, at SE. corner of cheese factory, in S. face of brickwork, near foundation; standard tablet stamped "Chgo 715" (restamped "1905 Adj 716" in 1905) <sup>3</sup> -----	715.761
Arlington Heights, at old high school building, in front face of stone water table, at SW. corner of front projection; standard tablet stamped "Chgo 663" and "Prim Trav Sta No 71 K 1924" (restamped "1905 Adj 704" in 1905; recovered in 1924) <sup>4</sup> -----	703.795
Arlington Heights, 3.6 mi. N. of, 3.0 mi. S. and 1.7 mi. W. from Aptakisic, 0.25 mi. E. of NW. cor. sec. 8, T. 42 N., R. 11 E., in SW. angle of junction of E.-W. rd., 8 ft. S. of fence corner, 1 ft. E. of fence; standard iron post with bronze cap stamped "1905 Adj 705" (set in 1905) <sup>5</sup> -----	705.085
Halfday, 2 blocks W. of highway bridge over Indian Creek, at NW. corner of foundation of schoolhouse, in front face of brickwork; standard tablet stamped "Chgo 669" (restamped "1905 Adj 668" in 1905; recovered in 1925) -----	667.365
Halfday, 3.5 mi. E. of, 3.0 mi. W. of Highwood, in SW $\frac{1}{4}$ sec. 17, T. 43 N., R. 12 E., at water subway under Chicago, Milwaukee, St. Paul & Pacific R. R., in E. face of NE. corner of stonework; standard tablet stamped "Chgo 671" (recovered in 1905 and restamped "1905 Adj 667" -----	667.079
3. From point 3.6 miles north of Arlington Heights east and north to point 1.5 miles southeast of Halfday, thence northwest along Milwaukee Avenue road to point 2.8 miles south of Libertyville (by Henry Bücher in 1905)	
Arlington Heights, about 6.0 mi. N. and 1.5 mi. E. from, 0.7 mi. S. of Aptakisic, 2.0 mi. S. and 1.0 mi. W. from Halfday, in SE $\frac{1}{4}$ sec. 28, T. 43 N., R. 11 E., 9 ft. S. of rd. W., on W. side of rd., 15 ft. E. of wire fence; standard iron post with bronze cap stamped "1905 Adj 682" (recovered in 1925) -----	681.446
Halfday, at SW. corner of bridge over Indian Creek, in top of stone abutment, 6 ft. SW. of end of iron truss; aluminum tablet stamped "1905 Adj 654" (reported destroyed) -----	653.377

<sup>3</sup> In 1925 this bench mark was reported destroyed.

<sup>4</sup> In 1938 permission was granted to reset this bench mark. No further information available.

<sup>5</sup> In 1924 this bench mark was destroyed and was replaced by a standard tablet stamped "Prim Trav Sta No 4 1919 51 W 1924," described in line 6.

Halfday, 3.0 mi. N. of, 3.4 mi. S. of Libertyville, 0.25 mi. E. of SW. cor. sec. 34, T. 44 N., R. 11 E., about 1,400 ft. E. of intersection of Town Line rd., at bridge over Des Plaines River, on S. side of rd., about 10 ft. W. of SW. corner of iron truss; standard iron post with bronze cap stamped "1905 Adj 651" and "Prim Trav Sta No 13 1906" (recovered in 1925)-----

Feet  
650.805

[Continued in Waukegan quadrangle, line 1]

4. From Lake Forest west along Deerpath Avenue to Waukegan road, thence south to Everett, thence southeast along Chicago, Milwaukee, St. Paul & Pacific Railroad to point 3.5 miles east of Halfday, thence west along road to Halfday (by Henry Bücher in 1905)

[Continued from Waukegan quadrangle, line 1]

Lake Forest, 1.5 mi. W. thence 0.5 mi. S. from, 1.4 mi. N. of C. M. St. P. & P. R. R. sta. at Everett, 0.25 mi. W. of NE cor. sec. 6, T. 43 N., R. 12 E., 25 ft. S. and 75 ft. E. from junction of T-rd. E., 50 ft. E. of fence corner, 1 ft. N. of fence; standard iron post with bronze cap stamped "1905 Adj 675" (recovered in 1925)-----

675.451

5. From point 2.8 miles north and 0.6 mile east from Itasca generally east along Landmeier road, Higgins road, and Touhy Avenue to Carpenter road, thence south to point 2 miles south of Niles Center (by S. R. Archer in 1924)

[Continued from Barrington quadrangle, line 11]

Itasca, 3.1 mi. N. and 1.0 mi. E. from, 2.8 mi. NW. of Elk Grove, 0.8 mi. S. of Schnells Corner, about 0.2 mi. N. and 0.1 mi. W. from center of sec. 28, T. 41 N., R. 11 E., 500 ft. W. of Boxelder School, on W. side of rd., in line with center of rd. E., in concrete post; standard tablet stamped "Prim Trav Sta No 30 K 1924 A 70"-----

713.079

Reference mark, 25 ft. S. and 60 ft. E. from tablet, 30 ft. S. and 35 ft. E. from rd. junction, in root on N. side of 24-in. hard-maple tree; copper nail and washer-----

713.87

Elk Grove, 2.2 mi. NW. of, near E $\frac{1}{4}$  cor. sec. 28, T. 41 N., R. 11 E., 25 ft. S. and 30 ft. W. from junction of rd. S., in root on N. side of 15-in. maple tree; copper nail and washer-----

704.05

Elk Grove, 1.0 mi. NW. of, 0.25 mi. N. and about 300 ft. E. from SW. cor. sec. 26, T. 41 N., R. 11 E., 30 ft. S. and 35 ft. W. from junction of Busse rd. S., 3 ft. N. and 4.5 ft. W. from fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 29 K 1924 A 71"-----

674.463

Reference mark, 30 ft. S. and 35 ft. E. from rd. junction, in root on NW. side of westernmost of two willow trees 10 ft. apart; copper nail and washer-----

675.09

Elk Grove, 0.3 mi. NW. of, 30 ft. SE. and 25 ft. SW. from junction of Higgins rd. (U. S. Highway 14), 5 ft. SE. of fence corner, in root on NE. side of 24-in. cottonwood tree; copper nail and washer-----

671.67

Elk Grove (Oak Center), on W. side of crossroads, at NE. corner of concrete steps at entrance to Berger Cafe, on top of N. end of lower step; chiseled square-----

671.09

Elk Grove, 1.0 mi. SE. of, 0.25 mi. S. of NE. cor. sec. 36, T. 41 N., R. 11 E., 25 ft. N and 45 ft. W. from intersection of Mount Prospect rd., in root 5 in. underground on SW. side of 12-in. elm tree; copper nail and washer-----

658.14

Elk Grove, about 1.0 mi. E. of, 2.0 mi. S. and 2.0 mi. W. from Des Plaines, near NW. cor. sec. 31, T. 41 N., R. 12 E., at offset crossroads, 20 ft. S. and 20 ft. E. from junction of T-rd. E., in concrete post; standard tablet stamped "Prim Trav Sta No 28 K 1924 A 72"-----	<i>Feet</i> 650.639
Des Plaines, 2.0 mi. S. and 1.6 mi. W. from, at Chicago & North Western Ry. crossing; top of W. rail-----	652.8
Des Plaines, 2.0 mi. S. and 1.2 mi. W. from, 0.1 mi. W. of SE. cor. sec. 30, T. 41 N., R. 12 E., on N. side of rd., on W. side of private rd. N. to residence of George Wenkleman, in root on SE. side of 24-in. maple tree; copper nail and washer-----	649.07
Des Plaines, 2.0 mi. S. and 0.6 mi. W. from, 0.8 mi. N. thence 0.4 mi. W. from Orchard Place, near S¼ cor. sec. 29, T. 41 N., R. 12 E., 30 ft. N. and 35 ft. E. from crossroads, in root on SE. side of 42-in. cottonwood tree; copper nail and washer (recovered in 1925)-----	641.17
Orchard Place, 0.8 mi. N. of, 2.0 mi. S. and 0.2 mi. W. from Des Plaines, 25 ft. N. and 255 ft. W. from SE. cor. sec. 29, T. 41 N., R. 12 E., 30 ft. N. and 35 ft. W. from junction of T-rd. S., 1 ft. S. and 6 ft. E. from NE. right-of-way fence corner of Minneapolis, St. Paul & Sault Ste. Marie Ry., in concrete post; standard tablet stamped "Prim Trav Sta No 26 K 1924 A 73" <sup>6</sup> -----	639.092
Des Plaines, 2.0 mi. S. and 0.6 mi. E. from, 1.9 mi. W. of C. & N. W. Ry. bridge over Center Street in Park Ridge, about 0.25 mi. E. of S¼ cor. sec. 28, T. 41 N., R. 12 E., 240 ft. W. of intersection of Des Plaines River rd., on N. side of rd., in root on SE. side of 30-in. poplar tree; copper nail and washer-----	632.56
Park Ridge, 1.4 mi. W. of, 0.2 mi. E. of W. cor. secs. 27 and 34, T. 41 N., R. 12 E., at concrete bridge over Des Plaines River, on top of S. parapet of E. abutment; chiseled square-----	634.14
Park Ridge, 1.1 mi. W. of, near N¼ cor. sec. 34, T. 41 N., R. 12 E., in SW. corner of intersection of Dee rd., on top of W. head wall of concrete culvert; chiseled square-----	639.83
Park Ridge, at W. corporation line, near SW. cor. sec. 26, T. 41 N., R. 12 E., 25 ft. N. and 25 ft. E. from street intersection, in concrete post; standard tablet stamped "Prim Trav Sta No 27 K 1924 A 74"-----	639.592
Park Ridge, on C. & N. W. Ry. overhead bridge 16 over Center Street, 1.5 ft. W. of E. end of E. wing wall of S. abutment; chiseled square <sup>7</sup> -----	650.60
Park Ridge triangulation sta. reference mark, 214.69 meters S.44°48'W. from sta., in SW. corner of intersection of North Prospect Avenue and West Elm Street, in corner of sidewalk, at NE. corner of yard of 234 North Prospect Avenue; top, directly over drill hole, of granite post with letters "U S" cut in top-----	664.865
Park Ridge, 30 ft. S. and 12 ft. E. from intersection of Touhy (Park Ridge Boulevard) and Overhill Avenues, 0.9 mi. W. of Niles, about 0.1 mi. W. of quarter corner between secs. 25 and 36, T. 41 N., R. 12 E., on E. side of Overhill Avenue, opposite fireplug and manhole, on curb; chiseled square-----	655.91

<sup>6</sup> In 1926 this bench mark was reported destroyed.

<sup>7</sup> Established in 1929 to replace chiseled square formerly located on west end of south abutment of bridge, at an elevation 0.337 ft. higher than that of previous mark.

Niles, about 0.2 mi. W. of intersection of Milwaukee Avenue, 30 ft. S. and 492 ft. E. from NW. cor. sec. 31, T. 41 N., R. 13 E., on S. side of Touhy Avenue, 19 ft. E. of main (N.) entrance to St. Hedwigs Orphanage, 1 ft. S. of fence, in concrete post; standard tablet stamped "Prim Trav Sta No 43 K 1924 A 75"-----	<i>Feet</i> 629.889
Niles, 100 ft. NW. of intersection of Touhy (Park Ridge) and Milwaukee Avenues, on W. side of Milwaukee Avenue, at SE. corner of Niles State Bank, on N. end of stone doorsill at entrance; chiseled square-----	630.78
Niles, at SW. corner of concrete bridge over Chicago River, on Niles Center (Gross Point) rd., 450 ft. NE. of Milwaukee Avenue, on S. side of pavement, on N. side of footwalk, on W. end of concrete curb at foot of W. end of guard wall; chiseled square-----	616.25
Niles, 0.5 mi. E. of, 0.25 mi. W. of E. cor. secs. 30 and 31, T. 41 N., R. 13 E., at W. point of triangular plot between rds., on S. side of Niles Center rd., at junction of rd. E., in root on W. side of 48-in. elm tree; copper nail and washer-----	622.34
Niles, 0.7 mi. E. of, 1.2 mi. S. thence 1.4 mi. W. from Niles Center, 510 ft. W. of E. cor. secs. 30 and 31, T. 41 N., R. 13 E., at SE. corner of triangle of rds., in SE. corner of intersection of Caldwell Avenue, in top of E. head wall of concrete culvert under rd. S.; standard tablet stamped "Prim Trav Sta No 42 K 1924 A 76" (reported destroyed)-----	623.721
Niles Center, 1.2 mi. S. thence 0.6 mi. W. from, about 800 ft. E. of S $\frac{1}{4}$ cor. sec. 29, T. 41 N., R. 13 E., in NW. corner of crossroads, 110 ft. W. of Chicago, Milwaukee, St. Paul & Pacific R. R. crossing, on N. head wall of concrete culvert under highway, 1 ft. E. of W. end; chiseled square-----	622.73 621.3
C. M. St. P. & P. R. R. crossing; top of E. rail-----	
Niles Center, 1.2 mi. S. of, about 0.25 mi. W. of N $\frac{1}{4}$ cor. sec. 33, T. 41 N., R. 13 E., in SW. angle of intersection of Touhy (Kenilworth) Avenue and Carpenter rd. (Lillard Avenue), 5 ft. N. and 10 ft. E. from NE. corner of residence, in concrete post; standard tablet stamped "Prim Trav Sta No 41 K 1924 A 77" (recovered in 1925) <sup>8</sup> -----	621.263
Reference mark, 80 ft. W. of crossroads, on N. side of rd., in line with W. end of residence in NW. angle of crossroads, 2.5 ft. below pavement, on concrete head wall at W. end of tile drain; chiseled square (recovered in 1925)-----	618.55

[Continued in Riverside quadrangle, line 3]

6. From road junction 3.6 miles north of Arlington Heights south along Arlington Heights road to point on Landmeier road 2.8 miles northwest of Elk Grove (by G. F. Williams in 1924)

Arlington Heights, 3.6 mi. N. of, 0.25 mi. E. of NW. cor. sec. 8, T. 42 N., R. 11 E., 35 ft. S. and 45 ft. W. from junction of T-rd. S., 2.2 ft. S. of N. fence, 21.5 ft. W. of E. fence, 2.5 ft. S. and 5.5 ft. W. from Cook County highway corner post, in yard, in concrete post; standard tablet stamped "Prim Trav Sta No 4 1919 W 51" (recovered in 1925)-----	704.513
Reference mark, 100 ft. S. of rd. junction, on W. side of rd., on S. end of concrete side culvert under driveway, 5 ft. S. and 6 ft. E. from S. gatepost; chiseled square-----	703.82

<sup>8</sup> In 1943 it was reported that this bench mark had been disturbed by highway construction and the elevation changed.

Arlington Heights, 2.7 mi. N. of, 0.04 mi. N. and 0.25 mi. E. from SW. cor. sec. 8, T. 42 N., R. 11 E., on N. side of T-lane W., on W. side of rd., in root on SE. side of first willow tree; copper nail and washer.	<i>Feet</i> 689.42
Arlington Heights, 1.8 mi. N. of, about 900 ft. N. and 0.25 mi. E. from SW. cor. sec. 17, T. 42 N., R. 11 E., in SE. corner of intersection of Rand rd., in angle of fence, in concrete post; standard tablet stamped "50 W 1924"	687.516
Reference mark, in NE. corner of intersection, on top of SE. end of SE. wing wall of concrete culvert under rd. N.; chiseled square	689.58
Arlington Heights, 1.7 mi. N. of, 0.25 mi. E. of SW. cor. sec. 17, T. 42 N., R. 11 E., in NE. angle of intersection of Palatine rd., SE. of pump in yard of Hillside Inn, in root on SW. side of 24-in. maple tree; copper nail and washer	697.90
Arlington Heights, 1.1 mi. N. of, in SW $\frac{1}{4}$ sec. 20, T. 42 N., R. 11 E., about 0.2 mi. N. of crossroads, on top of W. head wall of concrete culvert; chiseled square	698.80
Arlington Heights, 0.9 mi. N. of, near center of SW $\frac{1}{4}$ sec. 20, T. 42 N., R. 11 E., 25 ft. N. and 50 ft. W. from crossroads, in root on W. side of second small pine tree; copper nail and washer	704.98
Arlington Heights, at public school, in NW. corner of sidewalk around school building, in concrete post; standard tablet stamped "49 W 1924" <sup>o</sup>	696.498
Arlington Heights, at State Street crossing of main line of Chicago & North Western Ry., 12 ft. SE. of S. and nearest rail, on SE. corner of concrete base of SW. crossing gate; chiseled square (reported destroyed)	695.67
Arlington Heights, 190 ft. S. of S. end of State Street and city limits, on N. end of W. concrete head wall of culvert over drainage ditch; chiseled square	688.08
Arlington Heights, 1.4 mi. S. of, in SW. angle of intersection of Central rd., in concrete post; standard tablet stamped "Prim Trav Sta No 70 K 1924 W 42"	702.470
Reference mark, in SE. angle of crossroads, 75 ft. S. of rd. E., in root on E. side of 12-in. maple tree; copper nail and washer	703.46
Arlington Heights, 1.6 mi. S. of, 0.2 mi. S. of NE. cor. sec. 9, T. 41 N., R. 11 E., on top of W. concrete head wall of culvert; chiseled square	699.68
Arlington Heights, 2.0 mi. S. of, near E $\frac{1}{4}$ cor. sec. 9, T. 41 N., R. 11 E., 70 ft. S. of junction of private rd. E., on top of W. head wall of concrete culvert; chiseled square	703.43
Arlington Heights, 2.7 mi. S. of, in NE $\frac{1}{4}$ sec. 16, T. 41 N., R. 11 E., 200 ft. S. of junction of rd. NE., on E. side of rd., on top of E. head wall of concrete culvert; chiseled square	706.32
Arlington Heights, 3.0 mi. S. of, about 0.2 mi. W. of E $\frac{1}{4}$ cor. sec. 16, T. 41 N., R. 11 E., 50 ft. S. and 40 ft. E. from intersection of Algonquin rd., in yard, in concrete post; standard tablet stamped "52 W 1924"	712.786
Reference mark, 75 ft. N. and 50 ft. W. from crossroads, in root on W. side of 30-in. hard-maple tree; copper nail and washer	711.57
Arlington Heights, 4.1 mi. S. of, 2.8 mi. NW. thence 0.8 mi. N. from Elk Grove, at Schnells Corner, in SE $\frac{1}{4}$ sec. 21, T. 41 N., R. 11 E., in SW. corner of intersection of Higgins rd., on top of SE. wing wall of S. head wall of concrete culvert under Higgins rd.; chiseled square	717.93

<sup>o</sup> In 1938 this bench mark was reported destroyed.

7. From intersection of Touhy Avenue and Lee Street 0.8 mile north and 0.4 mile west from Orchard Place generally northeast along streets and East River road to Central road, thence west to point on Arlington Heights road 1.4 miles south of Arlington Heights (by G. F. Williams in 1924; releveled in 1925 to point 1.9 miles north and 0.7 mile east from Des Plaines)

Orchard Place, 0.8 mi. N. of, 2.0 mi. S. and 0.2 mi. W. from Des Plaines, near NE. cor. sec. 32, T. 41 N., R. 12 E., at intersection of Touhy and East Railroad Avenues, 35 ft. S. and 48 ft. E. from Minneapolis, St. Paul & Saulte Ste. Marie Ry. crossing, in top of W. head wall of concrete culvert under rd. S.; standard tablet stamped "23 GW 1925"-----	<i>Feet</i> 642.204
Reference mark, 50 ft. E. of rd. junction, on E. end of N. concrete head wall of culvert; chiseled square-----	643.21
Riverview, at M. St. P. & S. Ste. M. Ry. crossing; top of E. rail of E. track-----	645.2
Riverview, at SE. corner of intersection of Illinois and Cuttle Avenues, on NW. corner of concrete walk around Riverview Public School; chiseled square-----	640.05
Riverview (Referee Park), at E. edge of, in SW. corner of intersection of Des Plaines and Oakton Avenues, in S. wing wall of culvert; standard tablet stamped "Prim Trav Sta No 44 K 1924 W 43" <sup>11</sup> -----	633.034
Des Plaines, 60 ft. N. of Ellenwood Street, on E. side of South Des Plaines Avenue, 8.3 ft. E. of curb, 38.4 ft. S. of S. and nearest rail of C. & N. W. Ry., in concrete post; standard tablet stamped "22 GW 1925" <sup>11</sup> -----	637.365
Des Plaines, on C. & N. W. Ry. bridge over Des Plaines River, on SW. wing wall of W. abutment, on concrete on top of limestone foundation; chiseled square-----	633.75
Des Plaines, 0.7 mi. E. of, in angle formed by junction of East Miner Avenue and Rand rd., in concrete post; standard tablet stamped "Prim Trav Sta No 45 K 1924 W 44" <sup>11</sup> -----	631.267
Reference mark, on S. end of W. concrete head wall of culvert under Rand rd.; chiseled square-----	630.97
Des Plaines, 1.0 mi. N. and 0.7 mi. E. from, 0.25 mi. W. of SE. cor. sec. 9, T. 41 N., R. 12 E., in NE. corner of intersection of Golf and East River rds., on N. head wall of culvert at East River rd. sta. 1084+40, route 58, section 584; chiseled square <sup>12</sup> -----	639.99
Des Plaines, 1.9 mi. N. and 0.7 mi. E. from, 0.5 mi. S. and 3.4 mi. W. from Glenview, 0.25 mi. W. of NE. cor. sec. 9, T. 41 N., R. 12 E., 28 ft. S. and 25 ft. E. from S. cor. secs. 31 and 32, T. 42 N., R. 12 E., in SE. angle of junction of East River and Central rds., in concrete post; standard tablet stamped "Prim Trav Sta No 46 K 1924 W 45" <sup>11</sup> -----	640.607
Reference mark, 65 ft. W. of rd. junction, 30 ft. S. of Center Street, in root on NW. side of 15-in. maple tree; copper nail and washer-----	640.03
Des Plaines, 1.9 mi. N. and 0.5 mi. W. from, 2.3 mi. E. of Mount Prospect, 0.2 mi. W. of SE. cor. sec. 36, T. 42 N., R. 11 E., in NE. angle of intersection of Central and Des Plaines River rds., inside fence, 4 ft. E. of gatepost, in concrete post; standard tablet stamped "Prim Trav Sta No 67 K 1924 W 46" <sup>11</sup> -----	641.353

<sup>11</sup> In 1941 this bench mark was reported destroyed.

<sup>12</sup> Established in 1929 to replace temporary bench mark established in 1924.

Reference mark, on top of S. end of W. head wall of concrete culvert under Des Plaines River rd.; chiseled square-----	<i>Feet</i> 642.89
Mount Prospect, 1.8 mi. E. of, at Feehanville sta., at crossing of M. St. P. & S. Ste. M. Ry.; top of W. rail of E. track-----	653.5
Mount Prospect, 0.8 mi. E. of, near NW. cor. sec. 7, T. 41 N., R. 11 E., in SE corner of T-rd. S., in concrete post; standard tablet stamped "Prim Trav Sta No 68 K 1924 W 47"-----	657.627
Reference mark, in NE. corner of intersection of Central and Rand rds., on E. end of N. concrete head wall of culvert under Central rd.; chiseled cross-----	658.66
Mount Prospect, in SE. corner of intersection of Central Avenue and N.-S. concrete rd., at Mount Prospect public school, on angle at NE. corner of concrete sidewalk; chiseled square-----	666.50
Mount Prospect, at C. & N. W. Ry. crossing; top of W. rail of W. track-----	676.2
Mount Prospect, 1.3 mi. W. of, 1.4 mi. S. thence 1.0 mi. E. from Arlington Heights, 0.2 mi. W. of S $\frac{1}{4}$ cor. sec. 33, T. 42 N., R. 11 E., on N. side of Central Avenue, in line with W. edge of Busse rd., in concrete post; standard tablet stamped "Prim Trav Sta No 69 K 1924 W 48"-----	684.348
Reference mark, 640 ft. E. of Busse rd., on SE. corner of E. abutment of concrete bridge; chiseled square-----	671.33
8. From intersection of Touhy Avenue and Carpenter road 1.2 miles south of Niles Center along roads northeast to point near Evanston, thence generally west along Glenview and other roads to junction of Central and East River roads at point 0.5 mile south and 3.4 miles west from Glenview (by S. R. Archer in 1925)	
Niles Center, 0.7 mi. SW. of, 0.18 mi. W. of center of sec. 28, T. 41 N., R. 13 E., in SW. angle of crossroads, in NE. corner of schoolyard, in root on W. side of 30-in. boxelder tree; copper nail and washer-----	621.26
Niles Center, in NW. angle of intersection of Lincoln Avenue and Carpenter Street, on curb; chiseled square-----	619.92
Niles Center, at intersection of Chicago & North Western Ry. and Carpenter rd.; top of W. rail-----	621.1
[Jogs into Evanston quadrangle, line 3]	
Glenview, 2.8 mi. E. of, near SE. cor. sec. 31, T. 42 N., R. 13 E., 260 ft. W. of junction of T-rd. N., on S. side of rd., 17 ft. E. of NW. corner of New Trier Garage, on top of NE. corner of E. end of office doorsill; chiseled square-----	634.05
Glenview, 2.5 mi. E. of, near center of SE $\frac{1}{4}$ sec. 31, T. 42 N., R. 13 E., at angle from NW. to W. in rd., on top near center of E. side wall of concrete highway bridge; chiseled square-----	628.05
C. & N. W. Ry. crossing; top of rail-----	628.0
Glenview, 1.8 mi. E. of, 0.25 mi. N. of SW. cor. sec. 31, T. 42 N., R. 13 E., 30 ft. N. and 35 ft. E. from intersection of Glenview and Harms rds., in concrete post; standard tablet stamped "Prim Trav Sta No 60 K 1924"-----	623.286
Glenview, 1.2 mi. E. of, 0.25 mi. S. of center of sec. 36, T. 42 N., R. 12 E., 200 ft. W. of junction of T-rd. N., on top of S. concrete head wall of drainpipe under rd. W.; chiseled square (reported destroyed)-----	643.50
Glenview, 0.5 mi. E. of, 0.25 mi. E. of center of sec. 35, T. 42 N., R. 12 E., 0.14 mi. E. of Waukegan rd., at angle from NW. to N. in rd., on N. side of rd., 20 ft. N. of center line of rd. W., 10 ft. N. of center line of rd. SE., in root on S. side of twin oak tree; copper nail and washer-----	645.83

# 1472 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Glenview, at SW. end of Waukegan rd. bridge over Chicago River, on S. side, on top of end capstone layer of stone; chiseled square-----	Feet 628.10
Glenview, at main entrance to Glenview State Bank Building; top of N. corner of E. end of stone doorsill-----	631.59
Glenview, at intersection of Chicago, Milwaukee, St. Paul & Pacific R. R. and Main Street; top of rail-----	633.5
Glenview, 0.8 mi. W. of Glenview State Bank, near center of sec. 34, T. 42 N., R. 12 E., 25 ft. S. and 35 ft. E. from intersection of Glenview and Shermerville rds., in concrete post; standard tablet stamped "Prim Trav Sta No 59 K 1924" <sup>15</sup> -----	654.660
Glenview, 1.8 mi. W. of, near center of sec. 33, T. 42 N., R. 12 E., in SW. angle of junction of T-rd. N. and private rd. S., on top of W. concrete head wall of drain under private rd. S.; chiseled square-----	675.43
Glenview, 2.7 mi. W. of, near center of sec. 32, T. 42 N., R. 12 E., 35 ft. N. and 40 ft. W. from intersection of Glenview rd. and Milwaukee Avenue, 3 ft. N. and 4 ft. W. from fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 47 K 1924"-----	677.439
Glenview, 2.8 mi. W. thence 0.6 mi. SW. from, near N. cor. secs. 9 and 10, T. 41 N., R. 12 E., at S. abutment of C. & N. W. Ry. bridge 851 over Central rd., on top of SW. end of W. wing wall; chiseled square-----	649.87
9. From point 2.7 miles west of Glenview northwest along Milwaukee Avenue and Sanders road to point 1 mile south of North Northfield, thence west across country and along Hintz road to Buffalo Grove road, thence north and west to junction of Dundee and Arlington Heights roads 3.6 miles north of Arlington Heights (by S. R. Archer in 1925)	
Glenview, 2.7 mi. W. thence 0.7 mi. NW. from, in SW $\frac{1}{4}$ sec. 29, T. 42 N., R. 12 E., 600 ft. N. of junction of rd. E., on top of W. head wall of concrete culvert under Milwaukee rd.; chiseled square----	663.84
Glenview, 2.7 mi. W. thence 1.1 mi. NW. from, near E $\frac{1}{4}$ cor. sec. 30, T. 42 N., R. 12 E., 85 ft. SE. of junction of T-rd. E., on top of W. head wall of concrete culvert under Milwaukee rd.; chiseled square-----	663.99
Glenview, 2.7 mi. W. thence 1.4 mi. NW. from, 3.3 mi. S. of North Northfield, near center of NE $\frac{1}{4}$ sec. 30, T. 42 N., R. 12 E., 25 ft. E. of junction of Sanders rd. N., 200 ft. S. of Avenue Tavern, in concrete post; standard tablet stamped "Prim Trav Sta No 48 K 1924"-----	650.496
North Northfield, 2.6 mi. S. of, about 0.2 mi. SE. of center of sec. 19, T. 42 N., R. 12 E., 50 ft. N. and 40 ft. E. from junction of rd. W., in yard of residence, in root on W. side of 24-in. maple tree; copper nail and washer-----	658.07
North Northfield, 2.0 mi. S. of, near S $\frac{1}{4}$ cor. sec. 18, T. 42 N., R. 12 E., 430 ft. N. of intersection of E.-W. section line, on top of E. head wall of concrete bridge; chiseled square-----	646.88
North Northfield, 1.4 mi. S. of, near center of sec. 18, T. 42 N., R. 12 E., 30 ft. N. and 30 ft. E. from junction of T-rd. E. in concrete post; standard tablet stamped "Prim Trav Sta No 49 K 1924"-----	658.063
Reference mark, 325 ft. N. of T-rd. E., on top of N. end of E. head wall of concrete culvert; chiseled square-----	657.71

<sup>15</sup> In 1941 permission was granted to move this bench mark.

North Northfield, 1.0 mi. S. of, near N $\frac{1}{4}$ cor. sec. 18, T. 42 N., R. 12 E., 160 ft. S. of E.-W. section line crossing rd., on top of W. head wall of concrete bridge; chiseled square-----	<i>Feet</i> 654.10
North Northfield, 1.0 mi. S. thence 0.5 mi. W. from, 1.2 mi. SE. thence 0.5 mi. E. from Wheeling, at cor. secs. 7, 12, 13, and 18, T. 42 N., Rs. 11 and 12 E., on top of stone marking section corner; chiseled square-----	644.94
Wheeling, 1.2 mi. SE. of, near quarter corner between secs. 12 and 13, T. 42 N., R. 11 E., 300 ft. W. of dam No. 1 on Des Plaines River, in SE. angle of intersection of Milwaukee and Hintz rds., at E. end of S. rustic stone entrance to Forest Preserve, 2.5 ft. E. of SE. corner of base of electric light pedestal, in concrete post; standard tablet stamped "Prim Trav Sta No 64 K 1924"-----	639.100
Reference mark, in NW. corner of rd. junction, on top of angle of N. head wall of concrete culvert under rd. W.; chiseled cross-----	642.18
Wheeling, 1.0 mi. S. of, about 600 ft. E. of SW. cor. sec. 12, T. 42 N., R. 11 E., on top of N. parapet of W. abutment of highway bridge over drainage ditch; chiseled square-----	643.17
Wheeling, 1.0 mi. S. and 1.0 mi. W. from, near SE. cor. sec. 10, T. 42 N., R. 11 E., 27 ft. N. and 23 ft. W. from intersection of Hintz and Wheeling rds., in fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 65 K 1924"-----	655.851
Reference mark, 25 ft. N. and 75 ft. E. from crossroads, in root 4 in. underground on SW. side of 15-in. tree, middle one of three poplar trees; copper nail and washer-----	652.71
Wheeling, 1.0 mi. S. and 2.0 mi. W. from, near NW. cor. sec. 15, T. 42 N., R. 11 E., 45 ft. S. and 25 ft. E. from crossroads, in root on SW. side of 12-in. walnut tree, second tree S. of corner; copper nail and washer-----	663.61
Wheeling, 1.0 mi. S. and 2.7 mi. W. from, 2.2 mi. S. of Buffalo Grove, 0.25 mi. E. of SW. cor. sec. 9, T. 42 N., R. 11 E., 30 ft. N. and 25 ft. E. from junction of T-rd. N., in fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 66 K 1924"-----	681.729
Buffalo Grove, 1.2 mi. S. of, 3.6 mi. N. thence 1.0 mi. E. from Arlington Heights, 0.25 mi. E. of NW. cor. sec. 9, T. 42 N., R. 11 E., 35 ft. S. and 100 ft. W. from junction of Dundee rd., in root of 36-in. maple tree; copper nail and washer-----	681.86
10. From point on Sanders road 1 mile south of North Northfield north and west along roads to point 1.9 miles west of Aptakisic, thence south along Arlington Heights road to junction of Dundee road 3.6 miles north of Arlington Heights (by S. R. Archer in 1925)	
North Northfield, 0.7 mi. S. of, in SW $\frac{1}{4}$ sec. 7, T. 42 N., R. 12 E., 25 ft. N. and 40 ft. E. from crossroads, inside fence, in root on E. side of 24-in. apple tree; copper nail and washer-----	657.52
North Northfield, 1.4 mi. E. of Wheeling, in NW. angle of intersection of Sanders and Dundee rds., 1 ft. SE. of fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 50 K 1924"-----	670.669
Reference mark, in NE. angle of crossroads, at SW. entrance to Evangelical Church, on top of N. end of concrete platform at foot of angular concrete steps; chiseled square-----	671.95

# 1474 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

North Northfield, 1.0 mi. N. of, about 1,000 ft. E. of NW. cor. sec. 6, T. 42 N., R. 12 E., in SE. angle of junction of Cook-Lake county-line rd. E. and private rd. W., in fence corner, in root on NW side of 48-in. cottonwood tree; copper nail and washer-----	Feet 682.58
North Northfield, 2.0 mi. N. of, 3.8 mi. SE. of Aptakisic, 1.9 mi. W. of Deerfield, 0.2 mi. E. of SW. cor. sec. 30, T. 43 N., R. 12 E., 30 ft. N. and 25 ft. W. from junction of T-rd. E., in concrete post; standard tablet stamped "Prim Trav Sta No 51 K 1924"-----	680.704
Reference mark, in SE. angle of rd. junction, in fence corner, in root on SE. side of 20-in. maple tree; copper nail and washer-----	681.02
Aptakisic, 3.0 mi. SE. of, near center of sec. 25, T. 43 N., R. 11 E., 470 ft. SE. of intersection of N.-S. quarter line, 60 ft. SE. of junction of private rd. S., 35 ft. N. of center line of rd., in root on S. side of 30-in. oak tree; copper nail and washer-----	687.14
Aptakisic, 2.2 mi. E. of, near SW. cor. sec. 24, T. 43 N., R. 11 E., 10 ft. N. and 25 ft. E. from junction of T-rd. W., in concrete post; standard tablet stamped "Prim Trav Sta No 61 K 1924"-----	666.649
Reference mark, 25 ft. N. and 25 ft. W. from rd. junction, 10 ft. W. of fence corner, in root on SW. side of 12-in oak tree; copper nail and washer-----	665.26
Aptakisic, 1.5 mi. E. of, 0.15 mi. NW. of S¼ cor. sec. 23, T. 43 N., R. 11 E., at rd. junction, on W. side of Des Plaines River, on top of N. end of W. stone abutment of bridge over river; chiseled square-----	646.21
Aptakisic, 1.1 mi. E. of, 1.5 mi. along Milwaukee Avenue SE. of Half-day, 0.12 mi. S. of NW. cor. sec. 26, T. 43 N., R. 11 E., at offset crossroads, 25 ft. S. and 40 ft. W. from junction of rd. W., 20 ft. W. of fence corner, in fence line, in root on NE. side of 24-in. maple tree; copper nail and washer-----	647.14
Aptakisic, in SW. angle of junction of rd. S., 168 ft. E. of R. R. crossing, in concrete post; standard tablet stamped "Prim Trav Sta No 62 K 1924"-----	682.539
Reference mark, 30 ft. S. and 30 ft. E. from rd. junction, 24 ft. N. and 4 ft. E. from NW. corner of store building, in root on N. side of three-forked maple tree; copper nail and washer-----	681.48
Aptakisic, 0.4 mi. W. of, near N¼ cor. sec. 28, T. 43 N., R. 11 E., 15 ft. S. and 15 ft. W. from junction of T-rd. N., on top of collar of W. end of tile drain under driveway to field; chiseled square-----	685.85
Aptakisic, 1.0 mi. W. of, 320 ft. W. of E. cor. secs. 20 and 29, T. 43 N., R. 11 E., on top of W. end of S. head wall of concrete bridge; chiseled square-----	682.30
Aptakisic, 1.9 mi. W. of, 0.3 mi. N. and 0.7 mi. E. from Long Grove, near E. cor. secs. 19 and 30, T. 43 N., R. 11 E., 25 ft. W. of center line of rd., at right angle S., in concrete post; standard tablet stamped "Prim Trav Sta No. 63 K 1924"-----	705.792
Long Grove, 1.2 mi. S. and 0.7 mi. E. from, 6.3 mi. along Arlington Heights rd. N. of Arlington Heights, near W¼ cor. sec. 32, T. 43 N., R. 11 E., 20 ft. N. and 33 ft. E. from crossroads; standard iron post with bronze cap stamped "1 A 1925"-----	695.845
Reference mark, 135 ft. N. and 45 ft. W. from crossroads, in root on SE. side of 12-in. linden tree; copper nail and washer-----	699.34
Arlington Heights, 5.2 mi. N. of, 0.13 mi. S. of quarter corner between secs. 31 and 32, T. 43 N., R. 11 E., on top of SW. end of SW. stone wing wall of highway bridge over Buffalo Creek; chiseled square---	691.74

Arlington Heights, 4.6 mi. N. of, 1,180 ft. S. of NW. cor. sec. 5, T. 42 N., R. 11 E., on E. side of rd., on N. side of driveway, at SW. corner of yard of residence of G. A. Weidner, in root on E. side of 24-in maple tree; copper nail and washer-----	<i>Feet</i> 728.23
Arlington Heights, 4.3 mi. N. of, near E $\frac{1}{4}$ cor. sec. 6, T. 42 N., R. 11 E., in SW. angle of junction of Nichols rd. W., in fence corner, in root on E. side of 15-in. linden tree; copper nail and washer-----	726.07
Arlington Heights, 3.6 mi. N. thence 0.2 mi. W. from, near SW. cor. sec. 5, T. 42 N., R. 11 E., 70 ft. E. of junction E-W. rd., on top of N. concrete head wall of culvert under Dundee rd.; chiseled square-----	704.34
11. From point on Sanders road 2 miles north of North Northfield east along Deerfield road to Deerfield, thence northwest and north along Waukegan and Telegraph roads to Deerpath Avenue, thence east to Lake Forest (by S. R. Archer in 1925)	
North Northfield, 2.0 mi. N. thence 0.8 mi. E. from, 1.1 mi. W. of Deerfield, at Wilmot School, near NW. cor. sec. 32, T. 43 N., R. 12 E., in SE. angle of crossroads, in NW. corner of schoolyard, in root on NW. side of 12-in. maple tree; copper nail and washer-----	668.44
Deerfield, 0.6 mi. W. of Deerfield State Bank, near quarter corner between secs. 29 and 32, T. 43 N., R. 12 E., 18 ft. S. of SE. corner of bridge over West Fork of North Branch of Chicago River, on S. end of concrete retaining wall, at junction with wing wall, 15 in. S. of point directly over S. side of storm sewer opening; chiseled square-----	658.84
Deerfield, on N. side at E. end of Deerfield rd. subway under Chicago, Milwaukee, St. Paul & Pacific R. R., 3.3 ft. above sidewalk, on top of first step of concrete abutment; chiseled square-----	670.95
Deerfield, in SW. angle of intersection of Deerfield and Waukegan rds., at NE. corner of Deerfield State Bank, in front of corner entrance, outside and at foot of steel column, on concrete base; chiseled square-----	693.68
Deerfield, 0.5 mi. NW. of Deerfield State Bank, 0.1 mi. W. of E $\frac{1}{4}$ cor. sec. 29, T. 43 N., R. 12 E., 70 ft. S. and 35 ft. W. from junction of rd. W., inside fence, in root on E. side of 36-in. oak tree; copper nail and washer-----	690.41
Deerfield, 1.0 mi. NW. of, about 0.2 mi. SE. of N $\frac{1}{4}$ cor. sec. 29, T. 43 N., R. 12 E., 200 ft. NW. of Waukegan rd., in SE. angle of C. M. St. P. & P. R. R. crossing, on top of W. side of concrete base of electric warning signal; chiseled square-----	679.51
Deerfield, 1.7 mi. NW. of, 0.3 mi. W. of center of sec. 20, T. 43 N., R. 12 E., 285 ft. N. of junction of private rd. W., 75 ft. N. of private rd. E., on E. side of rd., in root on SW. side of 12-in. tree, southwesternmost of cluster of oak trees on N. side of entrance; copper nail and washer-----	672.87
Deerfield, 2.1 mi. NW. of, 0.2 mi. S. of NW. cor. sec. 20, T. 43 N., R. 12 E., 120 ft. SE. of junction of rd. S., on E. side of Telegraph rd., in front of residence of Fred Man, in concrete post; standard tablet stamped "Prim Trav Sta No 52 K 1924"-----	684.518
Deerfield, 2.6 mi. NW. of, near center of SE $\frac{1}{4}$ sec. 18, T. 43 N., R. 12 E., in SW. angle of intersection of Lake Zurich rd. (State Highway 22), 10 ft. S. of fence corner, in root on SE. side of twin elm tree; copper nail and washer-----	683.16

# 1476 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Deerfield, 3.4 mi. NW. of, 0.7 mi. S. of Everett, near quarter corner between secs. 7 and 18, T. 43 N., R. 12 E., 50 ft. S. and 30 ft. W. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 53 K 1924"-----	<i>Feet</i> 688.535
Everett, 90 ft. S. and 45 ft. W. from crossroads, at service sta., at foot of S. side of bumper post of concrete base of filling stand, on top of N. end; chiseled square-----	682.75
Everett, 0.8 mi. N. of, 0.15 mi. E. of center of sec. 6, T. 43 N., R. 12 E., 25 ft. N. and 30 ft. W. from junction of T-rd. E., at W. fence line, in root on E. side of 10-in. oak tree (N. tree); copper nail and washer--	672.69
Everett, 1.0 mi. N. of, 1.6 mi. SW. thence 0.8 mi. S. from Lake Forest, in NE¼ sec. 6, T. 43 N., R. 12 E., at Waukegan rd. concrete bridge over North Branch of Chicago River, on E. parapet of N. abutment; chiseled square-----	670.31
Lake Forest, 1.6 mi. SW. thence 0.2 mi. S. from, 0.6 mi. NE. of Melody, near center of SE¼ sec. 31, T. 44 N., R. 12 E., 35 ft. N. and 25 ft. E. from junction of T-rd. W., in concrete post; standard tablet stamped "Prim Trav Sta No 54 K 1924"-----	692.750
Lake Forest, 1.6 mi. SW. of, 0.25 mi. E. of center of sec. 31, T. 44 N., R. 12 E., 25 ft. N. and 50 ft. E. from junction of Deerpath rd. E., 5 ft. S. and 8 ft. E. from fence corner, in root on SW. side of 10-in. elm tree; copper nail and washer-----	694.77
Lake Forest, 0.7 mi. SW. of City Hall, at concrete bridge over Skokie River, on S. side of bridge, 18 ft. W. of E. end, at foot on N. side of side wall, on top ledge; chiseled square-----	664.71
[Connects with line 4 in Waukegan quadrangle]	
12. From point 0.3 mile north and 0.7 mile east from Long Grove generally north and northwest along Long Grove and Fox Lake roads to point 0.3 mile southeast of Diamond Lake (by S. R. Archer in 1925)	
Long Grove, 1.3 mi. N. and 0.5 mi. E. from, 1.7 mi. W. of Prairie View, 0.25 mi. W. of NE. cor. sec. 19, T. 43 N., R. 11 E., 50 ft. W. of intersection of Lake Zurich rd. (State Highway 22), on top of S. head wall of concrete culvert; chiseled square-----	711.86
Prairie View, 1.7 mi. W. thence 0.6 mi. N. from, about 3.0 mi. W. of Halfday, in NE¼ sec. 18, T. 43 N., R. 11 E., 35 ft. S. and 45 ft. W. from junction of rd. E., at fence line, in root on NW. side of 24-in. oak tree; copper nail and washer-----	711.29
Prairie View, 1.7 mi. W. thence 0.8 mi. N. from, 0.5 mi. N. and 2.8 mi. W. from Halfday, near center of NE¼ sec. 18, T. 43 N., R. 11 E., 30 ft. N. of junction of rd. W., on W. side of rd. NE., 3 ft. N. of fence corner, in concrete post; standard tablet stamped "2 A 1925"-----	715.218
Halfday, 0.7 mi. N. and 2.3 mi. W. from, 0.25 mi. W. of quarter corner between secs. 8 and 17, T. 43 N., R. 11 E., 30 ft. N. and 55 ft. W. from right-angle bend N. in rd., 25 ft. W. of fence corner, inside fence, in root on NW. side of 24-in. maple tree; copper nail and washer---	727.72
Halfday, 2.0 mi. N. and 2.3 mi. W. from, 1.5 mi. SE. of Diamond Lake, near center of SW¼ sec. 5, T. 43 N., R. 11 E., 40 ft. NW. and 30 ft. N. from junction of Fox Lake rd., in N.-S. hedge fence line, 5 ft. N. of hedge along N. side of rd., on N. side of small gate, in root on NE. side of three-forked hedge tree; copper nail and washer-----	737.59

Diamond Lake, 0.7 mi. SE. of, in NE $\frac{1}{4}$ sec. 6, T. 43 N., R. 11 E., at concrete culvert over Indian Creek, on top near center of S. head wall; chiseled square-----	Feet 721.84
Diamond Lake, 0.4 mi. SE. of, in NW $\frac{1}{4}$ sec. 6, T. 43 N., R. 11 E., in N. corner of junction of rd. NE., on top of SE. corner of concrete base of signpost; chiseled square-----	748.58

[Connects with line 1 in Barrington quadrangle]

13. From point on Fox Lake road 0.4 mile southeast of Diamond Lake east along Town Line road to point on Waukegan road 0.6 mile northeast of Melody (by S. R. Archer in 1925)

Diamond Lake, 0.4 mi. SE. thence 0.7 mi. E. from, at Diamond Lake Cemetery, near SW. cor. sec. 31, T. 44 N., R. 11 E., 25 ft. N. and 65 ft. W. from junction of T-rd. N., 35 ft. W. of fence corner, opposite and 20 ft. W. of NW. corner of cemetery, in root on SE. side of 15-in. wild-cherry tree; copper nail and washer-----	722.73
Diamond Lake, 0.4 mi. SE. thence 1.1 mi. E. from, 2.8 mi. N. thence 1.6 mi. W. from Halfday, 0.12 mi. W. of N $\frac{1}{4}$ cor. sec. 5, T. 43 N., R. 11 E., 30 ft. S. and 25 ft. W. from crossroads, 3.5 ft. S. of fence corner, in concrete post; standard tablet stamped "3 A 1925"-----	716.183
Reference mark, 25 ft. S. and 35 ft. W. from crossroads, 10 ft. W. of fence corner, in root on NW. side of 10-in. cherry tree; copper nail and washer-----	715.31
Halfday, 2.8 mi. N. thence 0.9 mi. W. from, 0.12 mi. E. of W. cor. secs. 4 and 33, Tps. 43 and 44 N., R. 11 E., on top of E. end of N. wing wall of E. abutment of concrete bridge over drainage ditch; chiseled square-----	683.99
Halfday, 2.8 mi. N. of, 3.5 mi. S. of Libertyville, near cor. secs. 3, 4, 33, and 34, Tps. 43 and 44 N., R. 11 E., 25 ft. S. and 35 ft. W. from intersection of Milwaukee Avenue, 8 ft. W. of fence corner, in concrete post; standard tablet stamped "4 A 1925"-----	676.853
Reference mark, 13 ft. S. and 10 ft. E. from tablet, 40 ft. S. and 25 ft. W. from crossroads, 13 ft. S. of fence corner, in root on NE. side of 24-in. maple tree; copper nail and washer-----	676.14
Halfday, 2.8 mi. N. thence 1.0 mi. E. from, near SW. cor. sec. 35, T. 44 N., R. 11 E., 35 ft. N. and 40 ft. E. from junction of T-rd. N., in root on S. side of 30-in. forked elm tree; copper nail and washer-----	685.20
Halfday, 2.8 mi. N. thence 2.0 mi. E. from, 1.2 mi. W. of Melody, near SW. cor. sec. 36, T. 44 N., R. 11 E., 35 ft. N. and 30 ft. E. from junction of T-rd. N., 5 ft. N. of fence corner, in concrete post; standard tablet stamped "5 A 1925"-----	681.237
Melody, 0.7 mi. W. of, near S $\frac{1}{4}$ cor. sec. 36, T. 44 N., R. 11 E., 20 ft. N. and 10 ft. W. from junction of T-rd. S., 35 ft. W. of private rd. N., in root on SW. side of 8-in. oak tree; copper nail and washer-----	685.60
Melody, 0.2 mi. NE. of SW. cor. sec. 31, T. 44 N., R. 12 E., 50 ft. SW. and 30 ft. NW. from Chicago, Milwaukee, St. Paul & Pacific R. R. crossing, in root on NW. side of 24-in. boxelder tree; copper nail and washer-----	670.08

14. From Lake Forest southeast along streets and roads to Glencoe (by S. R. Archer in 1925)

[Connects with line 4 in Waukegan quadrangle]

Lake Forest, 1.0 mi. SE. of city hall, near N $\frac{1}{4}$ cor. sec. 4, T. 43 N., R. 12 E., in SW. corner of junction of rd. W., on concrete curb, 4 ft. N. of point where curb starts to curve NW.; chiseled square-----	695.90
--	--------

# 1478 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Lake Forest, 1.4 mi. SE. of, 0.25 mi. E. of center of sec. 4, T. 43 N., R. 12 E., 50 ft. S. and 30 ft. E. from junction of E.-W. rd., 50 ft. S. and 50 ft. W. from Chicago & North Western Ry. crossing, in root on N. side of 24-in. oak tree; copper nail and washer-----	<i>Feet</i> 700.34
Lake Forest, 1.9 mi. SE. of, 0.7 mi. NW. of C & N. W. Ry. sta., at Fort Sheridan, in SE $\frac{1}{4}$ sec. 4, T. 43 N., R. 12 E., 0.15 mi. NW. of NW. corner of Fort Sheridan Military Reservation, 65 ft. NW. of junction of rd. N., on W. side of rd., at Chicago, North Shore & Milwaukee electric ry. right-of-way fence line, opposite and 2 ft. SE. of light post, in concrete post; standard tablet stamped "6 A 1925"-----	704.887
Fort Sheridan, at Waukegan Avenue entrance to fort, opposite NE. corner of C. N. S & M. car barns, 35 ft. S. and 25 ft. E. from junction of rd. NW., 5.5 ft. S. and 4.5 ft. E. from hydrant, on top of rim on S. edge of sewer manhole; in loop of figure "9" of date "1910"-----	685.31
Highwood, in NW. corner of intersection of Highwood and Waukegan Avenues, in SE. corner of park, at C. N. S. & M. sta., in concrete post; standard tablet stamped "Prim Trav Sta No 78 K 1924" (recovered by U. S. C. & G. S. in 1934)-----	683.729
Highwood, at C. & N. W. Ry. bridge 1352 over Bloom Street, at W. end of S. stone abutment, on top step, 2 ft. above bridge seat of wing wall; chiseled square-----	675.48
Highland Park, 25 ft. S. and 45 ft. E. from intersection of Green Bay rd. and Vine Avenue, at S. abutment of C. & N. W. Ry. bridge over Vine Avenue, in NW. corner of end stone at W. end of bridge seat layer; chiseled square <sup>16</sup> -----	677.85
Highland Park, in NE. corner of intersection of Central and St. Johns Avenues, at SW. corner of Highland Park State Bank, on concrete curb, 1.5 ft. SE. of storm sewer opening; chiseled square-----	693.18
Highland Park, at SE. corner of Forest Avenue and Ravinia Drive, in NW. corner of lot, in corner of sidewalk, in concrete post; standard tablet stamped "Prim Trav Sta No 79 K 1924" <sup>17</sup> -----	667.184
Highland Park, at intersection of South St. Johns and Forest Avenues and Wade Street, opposite N. side of triangular park, on NW. side, between South St. Johns and Forest Avenues, in root on SE. side of southeasternmost of two 15-in. oak trees 5 ft. apart; copper nail and washer-----	680.75
Ravinia, in SW. corner of intersection of St. Johns and Roger Williams Avenues, just E. of C. & N. W. Ry. and C. N. S. & M. electric line sta., in line with W. curb of St. Johns Avenue N., on concrete curb; chiseled square-----	673.03
Ravinia, in NW. angle of intersection of Sheridan rd. and Roger Williams Avenue, 12 ft. S. and 2.5 ft. W. from fire hydrant, in concrete post; standard tablet stamped "Prim Trav Sta No 80 K 1924" (recovered by U. S. C. & G. S. in 1934)-----	648.749
Ravinia, 0.5 mi. SE. of, at NW. corner of Ravinia Park, 0.6 mi. NW. of Braeside, 0.12 mi. E. of center of sec. 36, T. 43 N., R. 12 E., in SW. corner of right angle E. in St. Johns Avenue, on corner of concrete curb; chiseled square-----	670.82

<sup>16</sup> In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "Q 18 1934," elevation 691.242 ft.

<sup>17</sup> In 1934 this bench mark was moved 1 ft. south and 1 ft. east from this position and reset at an elevation 0.131 ft. lower than that originally determined. The figures given represent the new elevation.

Braeside, at C. & N. W. Ry. sta., 0.9 mi NW. of Glencoe, on N. side of Cook-Lake county-line rd., on E. side of tracks, at SE. corner of S. end of brick platform, on corner of concrete curb; chiseled square-----	Feet 680.53
Glencoe, in NW. corner of intersection of C. N. S. & M. electric line and Green Bay rd., in line with W. right-of-way line, 4 ft. E. of storm sewer opening, 8 ft. W. of W. rail, on concrete curb; chiseled square-----	674.54
Glencoe, at intersection of C. & N. W. Ry. and Park Avenue, on S. side of Park Avenue, 5 ft. N. of sidewalk, 15 ft. W. of center line of W. track, 2 ft. W. of concrete base of SW. arm of crossing gate, on concrete curb; chiseled square-----	673.52
Glencoe, in SE. corner of intersection of Sheridan rd. and Park Avenue, in NW. angle of sidewalk intersection, in concrete post; standard tablet stamped "Prim Trav Sta No 81 K 1924" (recovered by U. S. C. & G. S. in 1934)-----	660.655

[Continued in Evanston quadrangle, line 5]

15. From point 2.8 miles east of Glenview north along Hibbard and other roads to Glencoe (by S. R. Archer in 1925; leveled twice)

Glenview, 2.8 mi. E. thence 0.5 mi. N. from, near E $\frac{1}{4}$ cor. sec. 31, T. 42 N., R. 13 E., in SW. corner of intersection of Hibbard rd. and Wilmette Avenue, on top near center of concrete head wall of culvert; chiseled square-----	623.69
Glenview, 2.8 mi. E. thence 1.0 mi. N. from, 2.0 mi. S. of Winnetka, near SE. cor. sec. 30, T. 42 N., R. 13 E., 25 ft. N. and 25 ft. W. from intersection of Hibbard rd. and Lake Avenue, in concrete post; standard tablet stamped "Prim Trav Sta No 72 K 1924"-----	624.700
Reference mark, in SE. corner of crossroads, on S. end of concrete head wall of culvert; chiseled square-----	625.37
Winnetka, 1.6 mi. S. of, 0.15 mi. S. of W $\frac{1}{4}$ cor. sec. 29, T. 42 N., R. 13 E., in SE. corner of intersection of Hibbard and Happ rds., on S end of concrete head wall of culvert; chiseled square-----	625.94
Winnetka, 1.0 mi. S. of, near NE. cor. sec. 30, T. 42 N., R. 13 E., in SW. corner of intersection of Hibbard and Winnetka rds., on top near center of concrete head wall of culvert; chiseled square-----	623.84
Winnetka, 0.5 mi. S. of, near W $\frac{1}{4}$ cor. sec. 20, T. 42 N., R. 13 E., in NE. corner of intersection of Hibbard and Willard rds., at E. end of concrete culvert, on top at W. end of retaining wall, 1.5 ft. E. of S. end of S. head wall; chiseled square-----	625.11
Winnetka, at W. side of, near NW. cor. sec. 20, T. 42 N., R. 13 E., in SE. angle of junction of Hibbard rd. and Pine Street, at fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 73 K 1924"-----	622.910
Reference mark, 15 ft. S. and 25 ft. E. from rd. junction, in root on W. side of large twin willow tree; copper nail and washer-----	623.77
Winnetka, in SW. corner of intersection of Hibbard rd. and Tower rd. (North Avenue), on circular curb; chiseled square-----	641.08
Winnetka, at city line between Winnetka and Glencoe, in NW. angle of intersection of Scott and Vernon Avenues, on E. side of storm sewer opening, on curb; chiseled square-----	636.75
Glencoe, in SE. angle of intersection of Vernon and Park Avenues, 6 ft. N. of storm sewer opening, 10 ft. S. of corner of curb, in line with edge of sidewalk E., on concrete curb; chiseled square-----	674.81

# 1480 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

## 16. From point on Telegraph road 2.6 miles northwest of Deerfield east along Lake Zurich road (State Highway 22) to Highwood (by S. R. Archer in 1925; leveled twice)

Deerfield, 2.6 mi. NW. thence 0.4 mi. E. from, 2.9 mi. W. of Highwood, near center of SW $\frac{1}{4}$ sec. 17, T. 43 N., R. 12 E., in NW. angle of intersection of Waukegan rd. and Prairie Avenue, 75 ft. N. and 75 ft. E. from intersection of Chicago, Milwaukee, St. Paul & Pacific R. R., on N. head wall of small concrete culvert under rd. W.; chiseled square-----	<i>Feet</i> 666.88
Highwood, 2.1 mi. W. of, 0.25 mi. N. of SE. cor. sec. 17, T. 43 N., R. 12 E., in SW. angle of junction of Ridge rd. N. and private rd. S., on W. head wall of concrete culvert under rd. S.; chiseled square-----	673.58
Highwood, 1.8 mi. W. of, near center of SW $\frac{1}{4}$ sec. 16, T. 43 N., R. 12 E., in SE. corner of intersection of Prairie Avenue and Ridge rd., at fence corner, in concrete post; standard tablet stamped "Prim Trav Sta No 77 K 1924 19 GW 1925"-----	671.466
Highwood, 1.5 mi. W. of, 0.13 mi. W. of center of SE $\frac{1}{4}$ sec. 16, T. 43 N., R. 12 E., 60 ft. E. of junction of T-rd. S., at W. end of N. stone abutment of Prairie Avenue subway under Chicago & North Western Ry., on top of lower step; hollow chiseled square-----	644.95
Highwood, 0.9 mi. W. of, 0.25 mi. W. of W. city limits, near center of SW $\frac{1}{4}$ sec. 15, T. 43 N., R. 12 E., in SW. angle of intersection of Halfday (Prairie Avenue) and Compton Streets, on S. side of avenue, on E. head wall of concrete culvert under driveway to residence; chiseled square-----	643.93
Highwood, in NW. corner of Highwood and Railway Avenues, 13 ft. N. of SE. corner of Green Tree Inn, on S. end of windowsill; chiseled square-----	687.38

## 17. From North Northfield east along Dundee road to Glencoe by S. R. Archer in 1925; leveled twice)

North Northfield, 0.9 mi. E. of, 0.2 mi. E. of NW. cor. sec. 8, T. 42 N., R. 12 E., at junction of Huehl rd. N., 25 ft. S. of Dundee rd., on concrete base of guidepost; chiseled square-----	688.28
North Northfield, 1.2 mi. E. of, near N $\frac{1}{4}$ cor. sec. 8, T. 42 N., R. 12 E., 45 ft. S. and 25 ft. E. from junction of T-rd. S., 20 ft. S. of fence corner, in bench on N. side of three-forked willow tree; copper nail and washer-----	681.44
North Northfield, 1.7 mi. E. of, 0.8 mi. N. and 1.0 mi. W. from Northbrook, near NW. cor. sec. 9, T. 42 N., R. 12 E., in SE. angle of junction of T-rd. S., in concrete post; standard tablet stamped "Prim Trav Sta No 76 K 1924 13 GW 1925"-----	664.088
Reference mark, 660 ft. E. of rd. junction, on W. end of N. head wall of concrete culvert; chiseled square-----	661.58
Northbrook, near NW. part of, near N $\frac{1}{4}$ cor. sec. 9, T. 42 N., R. 12 E., in SE. corner of junction of T-rd. S., on N. wing wall of E. head wall of concrete culvert; chiseled square-----	656.23
Chicago, Milwaukee, St. Paul & Pacific R. R. crossing Dundee rd.; top of W. rail of W. track-----	653.1
Northbrook, just N. of N. limits of, 3.6 mi. W. of Glencoe, 0.2 mi. E. of SW. cor. sec. 3, T. 42 N., R. 12 E., in NW. angle of intersection of Dundee and Waukegan rds., in concrete post; standard tablet stamped "Prim Trav Sta No 75 K 1924 14 GW 1925"-----	682.743

Reference mark, 35 ft. N. and 30 ft. E. from crossroads, in root on N. side of 12-in. oak tree; copper nail and washer-----	<i>Feet</i> 681.52
Glencoe, 2.7 mi. W. of, near SE. cor. sec. 3, T. 42 N., R. 12 E., in NW. angle of intersection of Dundee and Lee rds., at SW. corner of concrete bridge over North Branch of Chicago River, at foot, on W. side of S. end of W. concrete railing, on top of bridge end of wing wall; chiseled square-----	646.21
Glencoe, 1.7 mi. W. of, near SE. cor. sec. 2, T. 42 N., R. 12 E., 27 ft. N. and 30 ft. W. from junction of Kotz rd. S., in concrete post; standard tablet stamped "Prim Trav Sta No 74 K 1924 15 GW 1925"-----	631.174
Reference mark, 240 ft. W. of rd. junction, on top of W. end of S. head wall of concrete culvert; chiseled square-----	632.75
Glencoe, 1.5 mi. W. of, 0.25 mi. E. of W. cor. secs. 1 and 12, T. 42 N., R. 12 E., on NW. wing wall of Skokie Bridge; chiseled square-----	630.17
Glencoe, 1.2 mi. W. of, near quarter corner between secs. 1 and 12, T. 42 N., R. 12 E., at SE. corper of concrete bridge, on bridge end of wing wall; chiseled square-----	633.63
Glencoe, in NE. angle of intersection of Dundee (Skokie) and Holdfelder rds., on E. concrete head wall of culvert under rd. N.; chiseled square-----	640.94
18. From point 1.5 miles south of Halfday north along Milwaukee Avenue to Halfday (by G. F. Williams in 1925; leveled twice)	
Halfday, 1.0 mi. S. of, 0.15 mi. W. of E $\frac{1}{4}$ cor. sec. 22, T. 43 N., R. 11 E., 30 ft. W. of junction of rd. SE., 20 ft. N. of driveway, in root on E. side of 30-in. cottonwood tree; copper nail and washer-----	648.48
Halfday, at concrete bridge over Indian Creek, in NE. wing wall of N. abutment; standard tablet stamped "21 GW 1925"-----	654.438
Reference mark, on W. side of Milwaukee Avenue, at office of Vernon Garage, on S. end of concrete doorsill; chiseled square-----	654.28
19. From intersection of Waukegan and Dundee roads southeast and southwest 1.7 miles along roads and streets to point 0.8 mile south of Northbrook (by G. F. Williams in 1925)	
Northbrook, at NE. corner of intersection of Waukegan rd. and Shermer Avenue, at W. end of sidewalk in front of Northbrook Inn, on curb; chiseled square-----	680.54
Northbrook, 120 ft. W. of Chicago, Milwaukee, St. Paul & Pacific R. R. crossing, on N. side of Shermer Avenue, in front of hardware store, on SW. corner of concrete platform; chiseled square-----	646.92

# JOLIET QUADRANGLE

[Latitude 41°30'–41°45'; longitude 88°00'–88°15']

COOK, DU PAGE, AND WILL COUNTIES

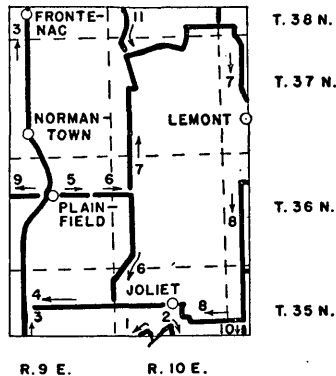


FIGURE 246.—Lines of leveling in Joliet quadrangle.

1. From Brandon Bridge over Des Plaines River near Rockdale north along road about 0.2 mile, thence southwest along Channahon road (U. S. Highway 6) 0.5 mile (by R. G. Clinite in 1915)

[Continued from Wilmington quadrangle, line 2]

Rockdale, 0.8 mi. SE. of, at N. abutment of Brandon Bridge over Des Plaines River, in top of coping stone of E. wing wall; copper bolt leaded vertically (U. S. C. E. B. M. 102)-----	Feet 519.005
Rockdale, just S. of, between Des Plaines River and Illinois and Michigan Canal, about 0.2 mi. SW. of bridge over canal, on N. side of Channahon rd., in front yard of house owned by H. Stassen & Son; top of cap on iron pipe (U. S. C. E. B. M. 101) <sup>11</sup> -----	525.878

[Continued in Wilmington quadrangle, line 3]

2. Northeast and south along roads and streets in southern part of Joliet (by R. G. Clinite in 1915)

[A jog from Wilmington quadrangle, line 5]

Joliet, at South Chicago Street Bridge over Hickory Creek, on SE. wing wall, on fifth stone course below coping; chiseled square----	535.46
--	--------

[Continued in Wilmington quadrangle, line 5]

3. From point 0.4 mile south and 6 miles west from Rockdale generally north along Elgin, Joliet & Eastern Railway to point 0.4 mile north of Frontenac (by S. L. Parker in 1919)

[Connects with line 4 in Wilmington quadrangle]

Rockdale, 1.1 mi. N. and 6.0 mi. W. from, 3.0 mi. S. of Caton Farm, near NE. cor. sec. 18, T. 35 N., R. 9 E., at rd. crossing, 27 ft. S. of center line of rd., on W. side of track, 2 ft. E. of right-of-way line; standard iron post with bronze cap stamped "1919 630"-----	629.629
--	---------

<sup>11</sup> In 1934 it was reported that the cap had been removed and the top of the pipe mutilated. The underground mark is still probably intact.

Caton Farm, 75 ft. SE. of sta., near SW. cor. sec. 29, T. 36 N., R. 9 E., 4 ft. N. of fence corner, 1 ft. W. of right-of-way line; standard iron post with bronze cap stamped "1919 622"-----	<i>Feet</i> 621.275
Caton Farm, 1.0 mi. N. of, 2.5 mi. SW. of Plainfield, at S. end of curve, on N. wing wall of large concrete R. R. culvert; chiseled square-----	620.29
Plainfield, 60 ft. NW. of intersection of Aurora, Plainfield & Joliet electric ry., about 0.3 mi. W. of post office, 3.6 mi. SE. of Norman-town, at fence corner, 1 ft. S. of right-of-way, 1 ft. E. of fence; standard iron post with bronze cap stamped "1919 601" (recovered in 1923)-----	600.937
Normantown, 165 ft. SE. of sta., 7 ft. E. of rd. crossing, 1 ft. W. of right-of-way line; standard iron post with bronze cap stamped "1919 671"-----	670.321
Normantown, 3.3 mi. N. of, 2.8 mi. S. of Frontenac, 45 ft. SE. of rd. crossing, 5 ft. S. of fence corner, 1 ft. E. of fence; standard iron post with bronze cap stamped "1919 695"-----	694.820
Frontenac, 65 ft. NE. of rd. crossing, at lane N. through field, 1 ft. S. of right-of-way line between rd. and R.R., 4 ft. W. of fence corner; standard iron post with bronze cap stamped "1919 711"-----	710.726

[Continued in Wheaton quadrangle, line 3]

4. From Joliet west along Jefferson and Troy roads to crossing of Elgin, Joliet & Eastern Railway 3 miles south of Caton Farm (by S. L. Parker in 1919)

Joliet, in S. wall of Will County courthouse, in center of third course of stone above ground; center punch mark of copper bolt (Sanitary District B. M. 127; recovered by U. S. C. & G. S. in 1935)-----	544.750
Joliet, at W. end of Jefferson Street bridge over Des Plaines River, near S. end of abutment, in top of stone coping course which forms bridge seat course of concrete abutment; copper bolt leaded vertically (U. S. C. E. B. M. 103) <sup>17a</sup> -----	537.699
Joliet, at NE. corner of intersection of Exchange and Wilcox Streets, on corner of concrete sidewalk; chiseled square (reported destroyed)-----	648.32
Joliet, 2.2 mi. W. of courthouse, near NE. cor. sec. 18, T. 35 N., R. 10 E., on S. side of Jefferson rd., in hedgerow, in root on N. side of 12-in. Osage-orange tree; copper nail and washer (reported destroyed)-----	643.79
Joliet, 3.1 mi. W. of, near NW. cor. sec. 18, T. 35 N., R. 10 E., in SE. angle of junction of T-rd. S., 30 ft. S. and 80 ft. E. from crossing of E. J. & E. Ry.; standard iron post with bronze cap stamped "1919 636" (recovered in 1920) <sup>18</sup> -----	635.537
Joliet, 4.1 mi. W. of, near SE. cor. sec. 11, T. 35 N., R. 9 E., on N. side of Troy rd., in NW. angle of junction of T-rd. N., in root on S. side of 12-in. red-oak tree used as corner fence post; copper nail and washer (reported destroyed)-----	601.72
Joliet, 7.2 mi. W. of, 3.0 mi. S. and 1.0 mi. E. from Caton Farm, near S. cor. secs. 8 and 9, T. 35 N., R. 9 E., 25 ft. SE. of NW. fence corner, on top of W. end of stone wing wall of wooden bridge; chiseled square-----	614.59

<sup>17a</sup> In 1934 this bench mark was destroyed by the construction of a new bridge.

<sup>18</sup> In 1943 it was reported that this bench mark was covered by asphaltic road material, but may be undisturbed.

# 1484 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

5. From intersection of Elgin, Joliet & Eastern Railway 0.3 mile west of Plainfield post office east along Lockport road 2.5 miles (by S. L. Parker in 1919)

Plainfield, at NW. corner of intersection of Lockport Street and Eastern Avenue, on corner of concrete sidewalk; chiseled square-----	Feet 615.12
Plainfield, 2.2 mi. E. of, near NE. cor. sec. 14, T. 36 N., R. 9. E., at SW. angle of crossroads, 1 ft. N. and 5 ft. W. from fence corner; standard iron post with bronze cap stamped "1919 615" (recovered in 1920) _	614.307
6. From crossroads 2.2 miles east of Plainfield east along Lockport road 2.1 miles, thence south along road and southwest along Elgin, Joliet & Eastern Railway to crossroads 3.1 miles west of Joliet (by R. G. Clinite in 1920)	
Plainfield, 3.2 mi. E. of, near NW. cor. sec. 18, T. 36 N., R. 10 E., on S. side of rd., at E. end of gate, in root of 27-in. maple tree; copper nail and washer-----	628.44
Plainfield, 4.3 mi. E. of, 6.0 mi. N. and 2.0 mi. W. from Joliet, near NE. cor. sec. 18, T. 36 N., R. 10 E., in SW. angle of crossroads, at corner of hedge fence; standard iron post with bronze cap stamped "Prim Trav Sta No 5 1919 632"-----	631.942
Joliet, 5.0 mi. N. and 2.0 mi. W. from, near SW. cor. sec. 17, T. 36 N., R. 10 E., in NE. angle of crossroads, in corner of apple orchard, in root of 10-in. cottonwood tree; copper nail and washer-----	652.97
Joliet, 4.0 mi. N. and 2.0 mi. W. from, near SE. cor. sec. 19, T. 36 N., R. 10 E., in NW. angle of crossroads, in root on E. side of 30-in. cottonwood tree; copper nail and washer-----	646.33
Joliet, 3.0 mi. N. and 2.0 mi. W. from, near SW. cor. sec. 29, T. 36 N., R. 10 E., in NE. angle of crossroads, 5 ft. N. and 2 ft. W from corner of hedge fence; standard iron post with bronze cap stamped "1920 647"-----	646.905
Joliet, 2.0 mi. N. and 2.6 mi. W. from, near S¼ cor. sec. 31, T. 36 N., R. 10 E., in NW. angle of intersection of E. J. & E. Ry. and township-line rd., 9 ft. E. of fence corner, on rock; chiseled square-----	604.83
Joliet, 3.1 mi. W. of, 0.11 mi. N. of SE. cor. sec. 12, T. 35 N., R. 9. E., 0.11 mi. N. of crossing of Troy rd., on W. side of track, on N. end of concrete head wall of culvert; head of bolt-----	634.03
7. From crossroads 4.3 miles east of Plainfield along roads north to point in southeast quarter sec. 6, T. 37 N., R. 10 E., thence alternately east and north to crossroads 4.2 miles north and 0.5 mile west from Lemont, thence generally south to Lemont (by R. G. Clinite in 1920)	
Plainfield, 4.3 mi. E. thence 1.0 mi. N. from, at Spangler School, near SW. cor. sec. 5, T. 36 N., R. 10 E., in NE. angle of crossroads, at entrance of schoolhouse, on SW. corner of bottom concrete step; chiseled square-----	641.97
T. 37 N., R. 10 E., near SE. cor. sec. 30, in NW. angle of crossroads, 3 ft. N. of fence corner; standard iron post with bronze cap stamped "1920 650"-----	649.696
T. 37 N., R. 10 E., near SE. cor. sec. 19, in NW. angle of junction of T-rd. W., 5 ft. W. of fence corner, in root of 5-in. cherry tree; copper nail and washer-----	652.58
T. 37 N., R. 10 E., near W. cor. secs. 17 and 20, on E. side of rd., opposite junction of T-rd. W., in root of double-trunked Osage-orange tree; copper nail and washer-----	653.68

T. 37 N., R. 10 E., 0.1 mi. W. of center of sec. 17, in SW. angle of crossroads, opposite Higgins School, on large granite boulder; chiseled square	<i>Feet</i> 663.50
T. 37 N., R. 10 E., 0.1 mi. SE. of W $\frac{1}{4}$ cor. sec. 8, in SW. angle of crossroads, 2 ft. NE. of fence corner, on boulder; chiseled square	667.04
T. 37 N., R. 10 E., near NE. cor. sec. 7, at steel bridge over East Branch of Du Page River, in top course of SE. wing wall; aluminum tablet stamped "1920 637" (recovered in 1925)	636.341
T. 37 N., R. 10 E., in SW $\frac{1}{4}$ sec. 4, 350 ft. SW. of junction of rd. N., on S. side of rd., in barnyard, in root of 30-in. locust tree; copper nail and washer	692.66
T. 37 N., R. 10 E., near E $\frac{1}{4}$ cor. sec. 4, on N. side of rd., at junction of T-rd. S., on NW. wing wall of bridge; chiseled square	659.10
T. 37 N., R. 10 E., 0.15 mi. SW. of E $\frac{1}{4}$ cor. sec. 3, 500 ft. NW. of rd. junction, at SW. corner of steel bridge over East Branch of Du Page River, in stone bridge seat; aluminum tablet stamped "1920 648"	647.630
T. 38 N., R. 10 E., 0.2 mi. W. of S $\frac{1}{4}$ cor. sec. 35, on N. side of Du Page-Will county line, on E. side of rd., on stone head wall of small culvert; chiseled triangle	660.33
T. 38 N., R. 10 E., 0.2 mi. W. of center of sec. 35, 4.2 mi. N. and 3.1 mi. W. from Lemont, on W. side of rd., opposite junction of rd. E.; standard iron post with bronze cap stamped "1920 663" <sup>18a</sup>	662.405
T. 38 N., R. 10 E., 0.2 mi. W. of center of sec. 35, 4.2 mi. N. and 3.1 mi. W. from Lemont, 60 ft. N. of junction of T-rd. E., 48 ft. E. of center line of pavement, in concrete post; aluminum tablet	663.512
Lemont, 4.2 mi. N. and 2.0 mi. W. from, near center of sec. 36, T. 38 N., R. 10 E., in NE. angle of crossroads, 70 ft. N. of fence corner, in root of 14-in. cherry tree; copper nail and washer	759.25
Lemont, 4.2 mi. N. and 0.5 mi. W. from, 4.0 mi. S. of Downers Grove, near W $\frac{1}{4}$ cor. sec. 32, T. 38 N., R. 11 E., in NE. angle of crossroads, 10 ft. N. of fence corner; standard iron post with bronze cap stamped "Prim Trav Sta No 4 1919 775" (recovered in 1924)	774.519
Reference mark, 15 ft. S. and 50 ft. E. from iron post, on N. side of rd., in root on S. side of 14-in. apple tree; copper nail and washer	773.78
Lemont, 2.8 mi. N. and 0.3 mi. W. from, 0.25 mi. NE. of SW. cor. sec. 5, T. 37 N., R. 11 E., in SW. angle of junction of Ottawa-Chicago rd. and rd. S., at property line corner; standard iron post with bronze cap stamped "1920 763"	762.455
Lemont, 1.2 mi. N. and 0.3 mi. W. from, 0.27 mi. W. of center of sec. 17, T. 37 N., R. 11 E., on W. side of rd., at base on E. side of coping of stone bridge, on N. end of capstone; chiseled square	712.80
Lemont, 0.7 mi. NW. of, 0.15 mi. W. of N $\frac{1}{4}$ cor. sec. 20, T. 37 N., R. 11 E., near Cook-Du Page county line, in SE. angle of crossroads, on top of S. end of semicircular concrete guard wall over culvert; chiseled square	596.07
Lemont, on Stevens Street, at NW. abutment of drawbridge over Chicago Drainage Canal, in top of sandstone bridge seat; copper bolt leaded vertically (U. S. C. E. B. M. 114)	593.706

<sup>18a</sup> In 1933 this bench mark was destroyed and replaced by an aluminum tablet. See following description.

[Continued in Des Plaines quadrangle, line 1]

8. From point 3.7 miles south and 0.1 mile west from Lemont along roads west 0.4 mile, thence south 7.5 miles to crossroads 1 mile south and 4 miles east from Joliet, thence west and north to Joliet (by R. G. Clinite in 1920)

[Continued from Des Plaines quadrangle, line 1]

Lemont, 3.7 mi. S. thence 0.5 mi. W. from, 6.5 mi. N. and 4.0 mi. E. from Will County courthouse in Joliet, at quarter corner between secs. 7 and 8, T. 36 N., R. 11 E., at right-angle turn in rd., on stone marking quarter corner; highest point-----	<i>Feet</i> 758.96
Joliet, 6.0 mi. N. and 4.0 mi. E. from, near NE. cor. sec. 18, T. 36 N., R. 11 E., in SW. angle of crossroads, 4 ft. E. of fence corner; standard iron post with bronze cap stamped "Prim Trav Sta No 3 1919 743"-----	742.618
Joliet, 5.0 mi. N. and 4.0 mi. E. from, near SW. cor. sec. 17, T. 36 N., R. 11 E., 200 ft. N. of crossroads, on E. side of rd., in root of double-trunked white-oak tree; copper nail and washer-----	743.24
Joliet, 3.0 mi. N. and 4.0 mi. E. from, near NE. cor. sec. 31, T. 36 N., R. 11 E., in SW. angle of crossroads, on top of concrete head wall at S. end of small culvert; chiseled square-----	710.50 <sup>19</sup>
Joliet, 2.5 mi. N. and 4.0 mi. E. from, near W¼ cor. sec. 32, T. 36 N., R. 11 E., 20 ft. N. and 20 ft. E. from junction of T-rd. W.; standard iron post with bronze cap stamped "1920 682" (recovered in 1924)-----	681.283
Joliet, 1.5 mi. N. and 4.0 mi. E. from, near W¼ cor. sec. 5, T. 35 N., R. 11 E., 130 ft. S. and 40 ft. E. from crossroads, in root of 20-in. basswood tree; copper nail and washer (recovered in 1924)-----	666.75
Joliet, 0.2 mi. N. and 4.0 mi. E. from, 0.18 mi. N. of SE. cor. sec. 7, T. 35 N., R. 11 E., 20 ft. S. and 40 ft. W. from junction of rd. NE., in root of 18-in. burr-oak tree; copper nail and washer-----	606.71
Joliet, 1.0 mi. S. and 4.0 mi. E. from, near SW. cor. sec. 17, T. 35 N., R. 11 E., in NE. angle of crossroads, 3 ft. W. of fence corner; standard iron post with bronze cap stamped "Prim Trav Sta No 21 W 1915 652" <sup>19</sup> -----	651.707
Joliet, 1.0 mi. S. and 2.0 mi. E. from, near NE. cor. sec. 23, T. 35 N., R. 10 E., 15 ft. S. and 15 ft. W. from crossroads, on W. end of stone bridge; chiseled square-----	637.25
Joliet, in SE. part of, near SE. cor. sec. 15, T. 35 N., R. 10 E., on W. side of N.-S. rd., opposite rd. E., 3 ft. E. of fence corner; standard iron post with bronze cap stamped "1920 607"-----	606.380
Joliet, in SE. part of, on Richard Street, at stone bridge over Hickory Creek, on SE. wing wall, 2 ft. NW. of steps leading down to park, level with sidewalk; chiseled square-----	535.91
Joliet, at Jefferson Street entrance to high school, on E. side of doorway, in second course of stone foundation; aluminum tablet stamped "1920 546"-----	545.236
9. From intersection of Elgin, Joliet & Eastern Railway 0.3 mile west of Plainfield west along road 2 miles (by S. R. Archer in 1923)	
Plainfield, 0.8 mi. W. of, near SE. cor. sec. 8, T. 36 N., R. 9 E., in NW. angle of junction of T-rd. N., 20 ft. N. and 5 ft. W. from SE. corner of yard of dwelling, in root on SW. side of 15-in. boxelder tree; copper nail and washer-----	622.80

<sup>19</sup> In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "U 26 1934," elevation 632.043 ft. In 1943 it was reported that the post had been struck by grading equipment and moved 6 in. north; elevation probably not much changed.

Plainfield, 1.6 mi. W. of, 0.19 mi. E. of SW. cor. sec. 8, T. 36 N., R. 9 E., 1,000 ft. E. of junction of T-rd. N., on N. side of rd., 150 ft. W. of dwelling, in root on S. side of westernmost of row of boxelder trees; copper nail and washer----- *Feet*  
621.03

[Continued in Yorkville quadrangle, line 1]

10. From crossroads 1 mile south and 4 miles east from Joliet south along road 0.8 mile (by W. R. Broadus in 1924)

Joliet, 1.0 mi. S. and 4.0 mi. E. from, near NW. cor. sec. 20, T. 35 N., R. 11 E., 25 ft. S. and 230 ft. E. from crossroads, in root on N. side of 24-in. elm tree; copper nail and washer<sup>20</sup>----- 654.50

[Continued in Wilmington quadrangle, line 6]

11. From point 1.6 miles south and 0.8 mile east from Naperville generally south along roads to bridge over East Branch of Du Page River near northeast corner sec. 7, T. 37 N., R. 10 E. (by S. R. Archer in 1925)

[Continued from Wheaton quadrangle, line 8]

Naperville, 1.8 mi. S. and 1.0 mi. E. from, at Hobson School, near E $\frac{1}{4}$  cor. sec. 30, T. 38 N., R. 10 E., 15 ft. N. and 8 ft. W. from NW. corner of schoolhouse, in concrete post; standard tablet stamped "1925 665"----- 664.234

Reference mark, 90 ft. SE. of tablet, 45 ft. S. and 5 ft. W. from SW. corner of schoolhouse, 5 ft. S. of well, in root on W. side of 24-in. boxelder tree; copper nail and washer----- 662.53

Hobson School, 0.6 mi. S. of, near NE. cor. sec. 31, T. 38 N., R. 10 E., 225 ft. S. of junction of rd. E., on E. side of rd., inside fence, in root on W. side of 15-in. wild-cherry tree; copper nail and washer-- 656.52

Hobson School, 1.4 mi. S. of, near SE. cor. sec. 31, T. 38 N., R. 10 E., 570 ft. N. of Du Page-Will county line, 150 ft. S. of dwelling on W. side of rd., 55 ft. N. of drain, at SE. corner of shed, in root on N. side of 24-in. elm tree; copper nail and washer----- 646.40

Hobson School, 2.0 mi. S. of, 0.25 mi. E. of center of sec. 6, T. 37 N., R. 10 E., at steel bridge over West Branch of Du Page River, at S. end of E. stone abutment, on top of SW. corner of bridge seat; chiseled square----- 646.39

<sup>20</sup> Established as a reference mark to standard iron post with bronze cap stamped "Prim Trav Sta No 21 W 1915 652," described in line 7.

# JOSLIN QUADRANGLE

[Latitude 41°30'–41°45'; longitude 90°00'–90°15']

HENRY, ROCK ISLAND, AND WHITESIDE COUNTIES

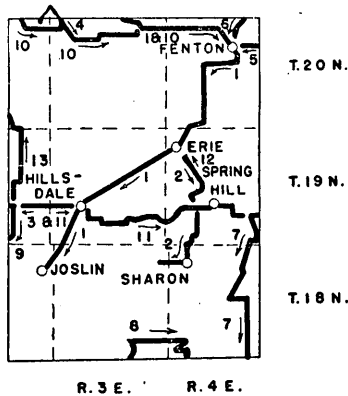


FIGURE 247.—Lines of leveling in Joslin quadrangle.

1. From point about 6 miles southeast of Albany along roads south and east to Fenton, thence south and west to Erie, thence southwest along Chicago, Burlington & Quincy Railroad to Joslin (by G. W. Newell in 1896)

[Continued from Clinton quadrangle, line 1]

Fenton, 100 ft. W. of C. B. & Q. R. R. sta., on E. side of N.-S. street, S. of junction of T-street W., on S. side of sidewalk; standard iron post with bronze cap stamped "606" (recovered in 1930) <sup>21</sup> -----	Feet 605.232
Erie, in small triangular park in public square; standard iron post with bronze cap stamped "593" (recovered in 1930) <sup>21</sup> -----	592.337
Hillsdale, 90 ft. E. of N. end of sta.; standard iron post with bronze cap stamped "598" <sup>22</sup> -----	581.518
Joslin, near sta., at NE. corner of yard of W. H. Whiteside; standard iron post with bronze cap stamped "581" <sup>23</sup> -----	585.615

2. From Erie along roads generally south to Sharon, thence west about 1.5 miles (by G. W. Newell in 1896)

Sharon, near SE. cor. sec. 6, T. 18 N., R. 4 E., at Sharon Stock Farm of William Arnett, at rd. junction, on W. side of rd.; standard iron post with bronze cap stamped "627" (reported destroyed)-----	632.130
Sharon, about 1.5 mi. W. of, 0.25 mi. W. of quarter corner between secs. 1 and 12, T. 18 N., R. 3 E., near NE. corner of rd. junction, opposite schoolhouse; standard iron post with bronze cap stamped "597" (reported destroyed)-----	602.226

<sup>21</sup> In 1938 it was reported that the cap was broken.

<sup>22</sup> In 1927 this bench mark was reported destroyed.

<sup>23</sup> In 1933 this bench mark was reported destroyed.

3. From Hillsdale west along road 2.7 miles (by G. W. Newell in 1896)	
Hillsdale, 2.7 mi. W. of, near N. cor. secs. 25 and 26, T. 19 N., R. 2 E., on S. side of rd., opposite T-rd. N.; standard iron post with bronze cap stamped "684" (recovered in 1930)-----	<i>Feet</i> 683.698
4. From point about 3.5 miles south of Albany along roads northeast 1.7 miles, thence southeast 3 miles (by G. W. Newell in 1896)	
Albany, 3.5 mi. S. of, near quarter corner between secs. 1 and 12, T. 20 N., R. 2 E., in NW. corner of crossroads, in fence corner; standard iron post with bronze cap stamped "678" <sup>24</sup> -----	677.881
Albany, about 5 mi. SE of, 540 ft. N. of W $\frac{1}{4}$ cor. sec. 9, T. 20 N., R. 3 E., 35 ft. S. and 35 ft. E. from crossroads, 10 ft. E. of fence corner; standard iron post with bronze cap stamped "704" (recovered in 1930) <sup>25</sup> -----	703.396
5. West along road 1.6 miles to Fenton (by H. S. Senseney in 1927)	
[Continued from Prophetstown quadrangle, line 2]	
Fenton, 1.4 mi. E. of R. R. sta., near S $\frac{1}{4}$ cor. sec. 11, T. 20 N., R. 4 E., 150 ft. E. of junction of T-rd. N., on N. side of rd., in root of tree; copper nail and washer-----	607.09
6. From point 1.7 miles north of Fenton south along road 1.7 miles (by J. A. Shumate in 1927)	
[Continued from Clinton quadrangle, line 2]	
Fenton, 1.5 mi. N. of, 0.2 mi. E. of N $\frac{1}{4}$ cor. sec. 10, T. 20 N., R. 4 E., in SW. angle of rd. junction, in root on E. side of 12-in. boxelder tree; copper nail and washer-----	601.09
7. From point 0.5 mile south and 2.3 miles east from Spring Hill along roads west 0.3 mile, thence generally south to point 5.7 miles north of Atkinson (by J. A. Shumate in 1927)	
[Continued from Prophetstown quadrangle, line 5]	
Spring Hill, 0.6 mi. S. and 2.0 mi. E. from, near center of sec. 26, T. 19 N., R. 4 E., 500 ft. S. of junction of rd. S., 30 ft. E. of rd., in corner of orchard, in root on S. side of 30-in. maple tree; copper nail and washer (recovered in 1930)-----	619.50
Spring Hill, 1.5 mi. S. and 2.0 mi. E. from, near center of sec. 35, T. 19 N., R. 4 E., 25 ft. E. of rd., 70 ft. N. of fence, in root on W. side of 15-in. hedge tree; copper nail and washer-----	618.08
T. 19 N., R. 4 E., about 0.25 mi. E. of S $\frac{1}{4}$ cor. sec. 35, 240 ft. N. and 20 ft. W. from junction of E.-W. rd., in root on E. side of 12-in. oak tree; copper nail and washer-----	618.22
T. 19 N., R. 4 E., about 0.25 mi. W. of S $\frac{1}{4}$ cor. sec. 35, at Arnett School, 30 ft. N. and 10 ft. W. from junction of T-rd. S. at N. cor. secs. 2 and 3, T. 18 N., R. 4 E., in concrete post; standard tablet stamped "T T Sta No 123 JLS 1927"-----	617.642
Reference mark, 50 ft. N.70°E. from tablet, on SE. corner of concrete porch of schoolhouse; chiseled square-----	617.62
T. 18 N., R. 4 E., near cor. secs. 2, 3, 10, and 11, at steel bridge over ditch, on E. end of S. abutment; chiseled square-----	609.87

<sup>24</sup> In 1930 this bench mark was reset. The description and the figures of elevation shown here refer to the new position.

<sup>25</sup> This bench mark is 15 ft. west of the standard tablet stamped "T T Sta No 60 JLS 1927," described in line 10.

# 1490 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

T. 18 N., R. 4 E., 0.25 mi. E. of center of sec. 10, 200 ft. N. and 100 ft. W. from crossroads, in root on N. side of 10-in. hickory tree; copper nail and washer-----	<i>Feet</i> 618.25
T. 18 N., R. 4 E., N. of center of sec. 15, at Kemis School, at junction of rd. W., on S. side of concrete platform in front of schoolhouse; chiseled square-----	633.49
T. 18 N., R. 4 E., about 0.2 mi. E. of SW. cor. sec. 15, 150 ft. N. and 50 ft. E. from junction of E.-W. rd., in root on E. side of 10-in. boxelder tree; copper nail and washer-----	626.82
T. 18 N., R. 4 E., near S. cor. secs. 14 and 15, 20 ft. N. of junction of T-rd. S., in concrete post; standard tablet stamped "T T Sta No 124 JLS 1927" <sup>26</sup> -----	618.800
Reference mark, 12 ft. NW. of tablet, in root on SW. side of 12-in. maple tree; copper nail and washer-----	619.68
T. 18 N., R. 4 E., near cor. secs. 22, 23, 26, and 27, 10 ft. S. and 12 ft. W. from junction of private rd. E., on W. head wall of concrete culvert; chiseled square-----	607.13
T. 18 N., R. 4 E., near quarter corner between secs. 34 and 35, 6.0 mi. N. of Atkinson, in SW. angle of junction of T-rd. W., on top near center of S. head wall of concrete culvert; chiseled square <sup>27</sup> -----	610.16

[Continued in Geneseo quadrangle, line 2]

8. From point near southwest corner sec. 35, T. 18 N., R. 3 E., along roads north, east, and south to point near southwest corner sec. 32, T. 18 N., R. 4 E. (by S. R. Archer in 1930)

[A jog from Geneseo quadrangle, line 7]

T. 18 N., R. 3 E., 0.3 mi. SW. of center of sec. 35, on E. side of rd., opposite and 125 ft. S. of farmhouse, in root on NW. side of 36-in. maple tree, second from N. end of row of trees; copper nail and washer----	658.12
T. 18 N., R. 3 E., 0.13 mi. S. of center of NW¼ sec. 35, on W. wing wall of S. concrete abutment of bridge; chiseled square-----	626.95
T. 18 N., R. 3 E., 0.2 mi. W. of quarter corner between secs. 26 and 35, 270 ft. E. of right angle in rd., on E. end of S. head wall of concrete culvert; chiseled square-----	630.94
T. 18 N., R. 3 E., near S¼ cor. sec. 26, 25 ft. N. and 110 ft. W. from junction of T-rd. N., 2 ft. SE. of fence post at SW. corner of schoolyard, in concrete post; standard tablet stamped "T T 137 F 1929"-----	638.940
T. 18 N., R. 3 E., 0.25 mi. W. of E. cor. secs. 26 and 35, 140 ft. E. of junction of T-rd. S., on S. side of rd., at fence, in root on N. side of 18-in. cottonwood tree; copper nail and washer-----	638.52
T. 18 N., R. 3 E., 0.06 mi. W. of E. cor. secs. 25 and 36, 0.19 mi. E. of junction of T-rd. N., at bridge over drainage ditch, on S. parapet of W. concrete abutment; chiseled square-----	606.89
T. 18 N., R. 4 E., 0.2 mi. W. of E. cor. secs. 30 and 31, 45 ft. E. of rd. junction, in fence line E., in root on W. side of 12-in. wild-cherry tree; copper nail and washer-----	610.76

<sup>26</sup> In 1932 this bench mark was moved 33 ft. east of this position and reset at an elevation 1.000 ft. lower than that originally determined. The figures given represent the new elevation.

<sup>27</sup> Established in 1930 on new culvert to replace chiseled square established on old culvert in 1927.

T. 18 N., R. 4 E., near center of sec. 31, 140 ft. N. of rd. junction, on W. side of rd., in root 6 in. underground on N. side of four-forked wild-cherry tree; copper nail and washer-----	Feet 611.18
T. 18 N., R. 4 E., near quarter corner between secs. 31 and 32, 205 ft. W. of junction of T-rd. S., on N. side of rd., in root on SE. side of 18-in. birch tree; copper nail and washer-----	613.57

[Continued in Geneseo quadrangle, line 7]

9. From point 3.8 miles west of Hillsdale along roads east 0.1 mile, thence south 1.7 miles, thence west 0.1 mile (by S. R. Archer in 1930)

[A jog from Le Claire quadrangle, line 2]

Hillsdale, 3.7 mi. W. of, near SW. cor. sec. 23, T. 19 N., R. 2 E., 63 ft. N. and 20 ft. E. from crossroads, in concrete post; standard tablet stamped "T T 161 F 1929"-----	698.412
Reference mark, in NE. corner of crossroads, in fence corner, in root on E. side of 30-in. maple tree; copper nail and washer-----	701.03
Hillsdale, 3.7 mi. W. thence 1.0 mi. S. from, near SE. cor. sec. 27, T. 19 N., R. 2 E., 100 ft. N. and 30 ft. W. from crossroads, 65 ft. N. of fence corner, in root, 0.5 ft. lower and 15 in. from notch in root, on NE. side of 30-in. mulberry tree; copper nail and washer-----	691.97
Hillsdale, 3.7 mi. W. thence 1.7 mi. S. from, 0.25 mi. N. of S. cor. secs. 34 and 35, T. 19 N., R. 2 E., on E. side of rd., 90 ft. N. of right angle, in root on W. side of 24-in. oak tree; copper nail and washer-----	667.15

[Continued in Le Claire quadrangle, line 2]

10. From point about 3 miles south and 1 mile west from Albany along roads generally east and southeast to Fenton (by S. R. Archer in 1930)

[Continued from Clinton quadrangle, line 4]

Albany, 1.2 mi. SW. thence 2.3 mi. S. from, near quarter corner between secs. 2 and 11, T. 20 N., R. 2 E., 50 ft. N. of junction of rd. E., on W. side of rd., at fence line, in root 8 in. underground on NE. side of 9-in. boxelder tree; copper nail and washer-----	580.84
T. 20 N., R. 2 E., 340 ft. NW. of SE. cor. sec. 2, near NE. corner of pond, on W. side of private lane NW. to farmhouse, in root on S. side of 30-in. oak tree; copper nail and washer-----	655.49
T. 20 N., R. 2 E., near quarter corner between secs. 1 and 12, about 3.5 mi. S. of Albany, 25 ft. S. and 60 ft. E. from crossroads, 30 ft. E. of fence corner, in root on W. side of 15-in. walnut tree, westernmost of row of trees; copper nail and washer <sup>28</sup> -----	677.88
T. 20 N., R. 3 E., near N¼ cor. sec. 7, 30 ft. W. of T-rd. S., on S. side of rd., in root on NW. side of 24-in. elm tree; copper nail and washer-----	715.83
T. 20 N., R. 3 E., near center of sec. 6, 70 ft. SE. of crossroads, in NW. corner of schoolyard, in root on NW. side of 36-in. maple tree; copper nail and washer-----	701.86
T. 20 N., R. 3 E., 0.16 mi. W. of quarter corner between secs. 5 and 8, on S. side of rd., in root on NE. side of 36-in. tree, westernmost of two large cottonwood trees 5 ft. apart; copper nail and washer-----	711.03
T. 20 N., R. 3 E., 540 ft. N. of W¼ cor. sec. 9, 35 ft. S. and 50 ft. E. from crossroads, near walnut tree, in concrete post; standard tablet stamped "T T Sta No 60 JLS 1927" <sup>29</sup> -----	703.207

<sup>28</sup> Established as a reference mark to permanent bench mark stamped "678," described in line 4.

<sup>29</sup> This tablet is 15 ft. east of the bench mark stamped "704," described in line 4.

T. 20 N., R. 3 E., near center of sec. 9, in SE. corner of right angle in rd., in fence corner, in root on S. side of 18-in. wild-cherry tree; copper nail and washer-----	<i>Feet</i> 720.66
T. 20 N., R. 3 E., near E¼ cor. sec. 9, 25 ft. N. and 60 ft. W. from crossroads, in root on SW. side of 24-in. boxelder tree; copper nail and washer-----	711.75
T. 20 N., R. 3 E., near W¼ cor. sec. 11, 130 ft. E. of crossroads, on S. side of rd., inside fence, in root on N. side of 36-in. forked maple tree; copper nail and washer-----	685.15
T. 20 N., R. 3 E., 0.25 mi. E. of center of sec. 11, in SE. angle of crossroads, in front of Zion Methodist Church, on N. end of middle concrete step; chiseled square-----	728.15
T. 20 N., R. 3 E., 0.25 mi. W. of NE. cor. sec. 11, 1.0 mi. NW. thence 4.0 mi. W. from Fenton, 0.5 mi. N. of Zion Methodist Church, at Cottle School, 200 ft. S. and 60 ft. E. from junction of T-rd. E., in front concrete step of schoolhouse; standard tablet stamped "T T Sta No. 61 JLS 1927" (recovered in 1941)-----	720.671
Reference mark, in SE. angle of rd. junction, in NW. corner of schoolyard, in root on E. side of 30-in. double maple tree; copper nail and washer (recovered in 1941)-----	711.51
Fenton, 1.0 mi. NW. thence 3.2 mi. W. from, near S¼ cor. sec. 1, T. 20 N., R. 3 E., on N. side of rd., opposite T-rd. S., in notch in trunk, 18 in. above ground, on NE. side of large, three-forked willow tree; copper nail and washer-----	709.98
Fenton, 1.0 mi. NW. thence 2.7 mi. W. from, near SW. cor. sec. 6, T. 20 N., R. 4 E., in NE. angle of crossroads, in root on W. side of 36-in. elm tree; copper nail and washer-----	716.78
Fenton, 1.0 mi. NW. thence 2.2 mi. W. from, near S¼ cor. sec. 6, T. 20 N., R. 4 E., 60 ft. E. of crossroads, on N. side of rd., in root on S. side of 12-in. tree, westernmost of row of walnut trees; copper nail and washer-----	714.77
Fenton, 1.0 mi. NW. thence 1.5 mi. W. from, 0.24 mi. E. of W. cor. secs. 5 and 8, T. 20 N., R. 4 E., on SE. corner of concrete culvert, at angular corner of head and retaining walls; chiseled square-----	667.37
Fenton, 1.0 mi. NW. thence 0.7 mi. W. from, 500 ft. E. of SW. cor. sec. 4, T. 20 N., R. 4 E., on N. side of rd., in line with front door of house of R. L. Priestley, on rd. side of yard fence, in concrete post; standard tablet stamped "T T Sta No 62 JLS 1927"-----	632.433
Reference mark, 500 ft. W. of tablet, in NE. angle of crossroads, at fence corner, in root on NW. side of 15-in. hickory tree; copper nail and washer-----	642.20
Fenton, 1.0 mi. NW. of, 0.25 mi. W. of NE. cor. sec. 9, T. 20 N., R. 4 E., in SW. corner of crossroads, on W. wing wall of S. abutment of concrete highway bridge; chiseled square-----	613.18
11. From crossroads 3.7 miles west of Hillsdale generally east along roads to point 0.6 mile south and 2 miles east from Spring Hill (by M. W. Clark in 1930)	
Hillsdale, 3.1 mi. W. of, near N¼ cor. sec. 26, T. 19 N., R. 2 E., on S. side of rd., on W. end of head wall of concrete bridge; chiseled square-----	652.58

Hillsdale, 2.7 mi. W. of, near S. cor. secs. 23 and 24, T. 19 N., R. 2 E., on N. side of rd., on head wall of concrete bridge; chiseled square <sup>30</sup> -----	Feet 675.79
Hillsdale, 2.3 mi. W. of, near S¼ cor. sec. 24, T. 19 N., R. 2 E., on N. side of rd., on concrete head wall of bridge; chiseled square-----	668.00
Hillsdale, 1.3 mi. W. of, near S¼ cor. sec. 19, T. 19 N., R. 3 E., 185 ft. W. of T-rd. N., on N. side of rd., on head wall of concrete bridge; chiseled square-----	642.12
Hillsdale, 0.8 mi. W. of, near S. cor. secs. 19 and 20, T. 19 N., R. 3 E., 260 ft. N. of junction of rd. N., on W. side of rd., on W. head wall of concrete culvert, 2 ft. N. of S. end; chiseled square-----	603.09
Hillsdale, 0.4 mi. W. of, 0.1 mi. W. of N¼ cor. sec. 29, T. 19 N., R. 3 E., 20 ft. S. and 50 ft. E. from crossroads, in concrete post; standard tablet stamped "T T 3 T 1929"-----	588.830
Hillsdale, 200 ft. E. of E. entrance to high school, on N. side of street, on concrete culvert; chiseled square-----	582.99
Hillsdale, on S. side of Main Street, just E. of junction of T-street N., 12 ft. E. of entrance to Nelsons Cafe, on NE. corner of concrete walk; chiseled square-----	587.01
Hillsdale, 150 ft. E. of intersection of Main Street and Chicago, Burlington & Quincy R. R., on N. side of street, on W. end of head wall of large concrete bridge; chiseled square-----	584.53
Hillsdale, 0.9 mi. SE. of Main Street crossing of C. B. & Q. R. R., in SW¼ sec. 28, T. 19 N., R. 3 E., S. of rd. junction, in root on N. side of 30-in. elm tree; copper nail and washer-----	585.10
Hillsdale, 1.2 mi. SE. of, near center of sec. 28, T. 19 N., R. 3 E., at bridge over Rock River, on N. end of center concrete pier; chiseled square-----	585.96
Hillsdale, 1.7 mi. SE. of 0.2 mi. W. of E. cor. secs. 28 and 33, T. 19 N., R. 3 E., NE. of Y-rd. junction, on E. side of rd., inside fence, in root on W. side of 24-in. white-oak tree; copper nail and washer-----	578.84
Hillsdale, 2.4 mi. SE. of, near quarter corner between secs. 27 and 34, T. 19 N., R. 3 E., 125 ft. W. of junction of T-rd. S., on W. side of concrete floor wall of bridge; chiseled square-----	580.18
Hillsdale, 2.9 mi. SE. of, 1.0 mi. S. and 4.5 mi. W. from Spring Hill, near SE. cor. sec. 27, T. 19 N., R. 3 E., 35 ft. N. and 20 ft. W. from rd. junction, 5 ft. N. of fence corner, in concrete post; standard tablet stamped "T T 2 T 1929"-----	577.403
Reference mark, 350 ft. W. of tablet, on N. side of rd., in root on SE. side of 15-in. hickory tree; copper nail and washer-----	581.23
Spring Hill, 0.7 mi. S. and 3.8 mi. W. from, 0.25 mi. N. and 0.3 mi. W. from SE. cor. sec. 26, T. 19 N., R. 3 E., on opposite side of rd. from farmhouse of Perry Medhersd, on S. bank of Rock River, in root on SW. side of 24-in. cottonwood tree with elm tree growing over halfway around it; copper nail and washer-----	580.52
Spring Hill, 0.5 mi. S. and 3.0 mi. W. from, near center of sec. 25, T. 19 N., R. 3 E., 350 ft. E. of junction of rd. NE., on S. side of rd., in root on NW. side of 12-in. cottonwood tree; copper nail and washer-----	581.96
Spring Hill, 0.9 mi. S. and 2.6 mi. W. from, near SE. cor. sec. 25, T. 19 N., R. 3 E., in front of residence of W. F. Meier, in root on N. side of 24-in. hard-maple tree; copper nail and washer-----	623.99

<sup>30</sup> Established as a reference mark to standard iron post with bronze cap stamped "684," described in line 3. It is 115 ft. northeast of the permanent bench mark.

# 1494 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Spring Hill, 2.8 mi. SW. of, at Sharon Center School, near quarter corner between secs. 30 and 31, T. 19 N., R. 4 E., on N. end of lower concrete step of schoolhouse; chiseled square-----	<i>Feet</i> 634.61
Spring Hill, 2.2 mi. SW. of, near center of sec. 30, T. 19 N., R. 4 E., on W. side of rd., on E. end of large concrete culvert; chiseled square-----	631.50
Spring Hill, 1.6 mi. W. of, near N. cor. secs. 29 and 30, T. 19 N., R. 4 E., at Sharon Church and Cemetery, at entrance to church, on E. end of lower concrete step; chiseled square-----	680.29
Spring Hill, 1.5 mi. W. of, near NW. cor. sec. 29, T. 19 N., R. 4 E., 470 ft. E. of Sharon Church, on N. side of rd., on E. end of head wall of large concrete bridge; chiseled square-----	668.29
Spring Hill, 1.3 mi. W. of, 0.27 mi. W. of quarter corner between secs. 20 and 29, T. 19 N., R. 4 E., 275 ft. W. of rd. N., on N. side of rd., on concrete culvert; chiseled square-----	664.40
Spring Hill, 1.0 mi. W. of, near S $\frac{1}{4}$ cor. sec. 20, T. 19 N., R. 4 E., 30 ft. N. of junction of T-rd. S., in concrete post; standard tablet stamped "T T 1 T 1929"-----	666.712
Spring Hill, at general store of George Perkins, on E. end of lower concrete step; chiseled square-----	636.60
Spring Hill, 1.0 mi. E. of, near S $\frac{1}{4}$ cor. sec. 22, T. 19 N., R. 4 E., 35 ft. N. and 60 ft. W. from junction of rd. S., in root on N. side of 36-in. cottonwood tree; copper nail and washer-----	625.27
Spring Hill, 0.5 mi. S. and 1.0 mi. E. from, near center of sec. 27, T. 19 N., R. 4 E., 30 ft. N. and 45 ft. E. from crossroads, inside fence, in root on SW. side of 30-in. hackberry tree; copper nail and washer--	616.63
12. From road junction 1 mile west of Spring Hill north and north-west along roads to Erie (by M. W. Clark in 1930; leveled twice)	
Spring Hill, 1.0 mi. W. thence 0.6 mi. N. from, in SW $\frac{1}{4}$ sec. 20, T. 19 N., R. 4 E., 100 ft. S. and 10 ft. W. from junction of rd. W., on concrete culvert; chiseled square-----	601.90
Spring Hill, 1.0 mi. W. thence 1.2 mi. N. from, near quarter corner between secs. 17 and 20, T. 19 N., R. 4 E., 25 ft. N. and 50 ft. W. from junction of T-rd. NW., in root on S. side of 24-in. locust tree; copper nail and washer-----	598.71
Spring Hill, 1.0 mi. W. thence 1.9 mi. N. from, 2.0 mi. SE. of public square in Erie, near center of sec. 17, T. 19 N., R. 4 E., 90 ft. W. of rd. junction, on top near center of S. concrete wall of bridge; chiseled square-----	593.95
Erie, 1.6 mi. SE. of, in NW $\frac{1}{4}$ sec. 17, T. 19 N., R. 4 E., at bridge over Rock River, on top of NE end of center concrete pier; chiseled square--	594.35
Erie, 1.0 mi. SE. of, in SW $\frac{1}{4}$ sec. 8, T. 19 N., R. 4 E., on NE. side of rd., on SE. wing wall of large concrete bridge; chiseled square-----	589.62
Erie, at E. entrance to high school building, on W. end of lower concrete step; chiseled square-----	592.82
13. From crossroads 3.7 miles west of Hillsdale generally north along roads to point about 0.2 mile west of east corner secs. 27 and 34, T. 20 N., R. 2 E. (by M. W. Clark in 1930)	
Hillsdale, 3.7 mi. W. thence 1.0 mi. N. from, near NW. cor. sec. 23, T. 19 N., R. 2 E., 25 ft. S. and 35 ft. E. from junction of E.-W. rd., inside fence, in root on NW. side of 36-in. maple tree; copper nail and washer-----	711.07

Hillsdale, 1.0 mi. N. and 3.5 mi. W. from, at Bethel Church, 0.22 mi. E. of W. cor. secs. 14 and 23, T. 19 N., R. 2 E., on E. end of lower concrete step of church; chiseled square-----	<i>Feet</i> 712.40
Hillsdale, 1.0 mi. N. and 3.2 mi. W. from, at Adelpia School, near S $\frac{1}{4}$ cor. sec. 14, T. 19 N., R. 2 E., in NE. angle of junction of T-rd. N., 42 ft. W. of lower step of entrance to schoolhouse, in root on NW. side of 12-in. maple tree; copper nail and washer-----	686.60
T. 19 N., R. 2 E., 0.14 mi. S. of center of sec. 14, on E. side of rd., on top near center of concrete culvert; chiseled square-----	685.98
T. 19 N., R. 2 E., near S $\frac{1}{4}$ cor. sec. 11, 75 ft. N. and 60 ft. W. from crossroads, in schoolyard, in root on E. side of 18-in. maple tree; copper nail and washer-----	726.35
T. 19 N., R. 2 E., near N $\frac{1}{4}$ cor. sec. 11, 30 ft. S. and 30 ft. W. from junction of T-rd. E., in concrete post; standard tablet stamped "T T 160 F 1929"-----	658.979
Reference mark, 370 ft. S. of tablet, 80 ft. S. and 30 ft. E. from junction of T-rd. W., on N. side of private rd. to residence of Ben Forsythe, in root on W. side of first maple tree N. of private rd.; copper nail and washer-----	654.47
T. 19 N., R. 2 E. near N $\frac{1}{4}$ cor. sec. 2, 600 ft. S. of rd. W., on top near center of SW. concrete wing wall of culvert; chiseled square-----	594.16
T. 20 N., R. 2 E., near SW. cor. sec. 35, 25 ft. N. and 30 ft. E. from junction of T-rd. N., in root on NE. side of 12-in. ash tree; copper nail and washer-----	601.69
T. 20 N., R. 2 E., 0.11 mi. S. and 0.15 mi. W. from NE. cor. sec. 34, on E. side of rd., in root on NW. side of 15-in. maple tree; copper nail and washer-----	609.49

[Continued in Le Claire quadrangle, line 4]

# KINGS QUADRANGLE

[Latitude 42°00'–42°15'; longitude 89°00'–89°15']

## OGLE AND WINNEBAGO COUNTIES

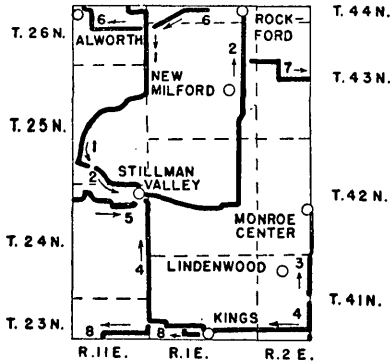


FIGURE 248.—Lines of leveling in Kings quadrangle.

1. From point 1 mile south and 2.5 miles east from Winnebago generally south and southwest along roads to point near Byron, thence southeast along Chicago, Milwaukee, St. Paul & Pacific Railroad to bridge over Rock River (by J. M. Perkins in 1915)

[Continued from Rockford quadrangle, line 2]

Winnebago, 1.5 mi. S. and 2.5 mi. E. from, 0.2 mi. S. of N $\frac{1}{4}$ cor. sec. 23, T. 26 N., R. 11 E., in NE. angle of junction of T-rd. E., near fence corner, in root of locust tree; copper nail and washer-----	Feet 850.42
Winnebago, 2.2 mi. S. and 3.5 mi. E. from, 5.5 mi. SW. of Rockford, near W $\frac{1}{4}$ cor. sec. 6, T. 43 N., R. 1 E., at Farb Corner, in NE. angle of intersection of Third Meridian rd. and Westfield Corners rd., near fence corner; standard iron post with bronze cap stamped "1915 807" (recovered in 1917)-----	806.052
T. 43 N., R. 1 E., near NW cor. sec. 18, 1.5 mi. S. of Farb Corner, in SE. angle of junction of T-rd. E., near fence corner, in root of large willow tree; copper nail and washer-----	819.54
T. 25 N., R. 11 E., 0.2 mi. S. of E $\frac{1}{4}$ cor. fractional sec. 1, on W. side of rd., opposite junction of T-rd. E., at fence corner; standard iron post with bronze cap stamped "1915 780"-----	779.272
T. 25 N., R. 11 E., near E $\frac{1}{4}$ cor. fractional sec. 12, on S. side of River rd., at junction of Third Meridian rd., in root of boxelder tree; copper nail and washer-----	701.92
T. 25 N., R. 11 E., in NW $\frac{1}{4}$ sec. 15, at dwelling of James Woodburn, on River rd., 50 ft. S. of windmill, in root of ash tree; copper nail and washer-----	711.07
T. 25 N., R. 11 E., in NE $\frac{1}{4}$ sec. 20, about 2 mi. NE. of Byron, on W. side of junction of River rd. and rd. N. to Westfield Corners, near fence; standard iron post with bronze cap stamped "1915 697"---	696.308

Byron, 0.3 mi. E. of C. M. St. P. & P. R. R. sta., in NE. angle of R. R. crossing, at E. fence line of rd. and N. right-of-way line of R. R.; standard iron post with bronze cap stamped "1915 712" (recovered in 1921)-----	Feet 710.879
Byron, 1.1 mi. E. of, on S. side of W. abutment of C. M. St. P. & P. R. R. bridge over Rock River, in stone coping; copper bolt leaded vertically (U. S. C. E. B. M. 75) <sup>21</sup> -----	692.961
2. From railroad bridge over Rock River 1.1 miles east of Byron southeast along Chicago, Milwaukee, St. Paul & Pacific Railroad and roads to road junction 1 mile east of Davis Junction, thence north to Rockford (by F. A. Danforth in 1917; releveled to Stillman Valley by C. C. Holder and beyond Stillman Valley by S. L. Parker in same year)	
Byron, 1.1 mi. E. of, at new C. M. St. P. & P. R. R. bridge over Rock River, in N. end of W. concrete abutment; copper bolt-----	695.762
Byron, 2.2 mi. SE. of, 2.1 mi. NW. of Stillman Valley, on NE. end of concrete culvert; chiseled square-----	706.96
Stillman Valley, 0.8 mi. NW. of, 0.2 mi. E. of S $\frac{1}{4}$ cor. sec. 35, T. 25 N., R. 11 E., on W. end of concrete bridge; chiseled square-----	699.67
Stillman Valley, at C. M. St. P. & P. R. R. sta., 8 in. from NE. corner, in concrete platform; aluminum tablet stamped "706"-----	705.343
Davis Junction, 4.6 mi. SE. of Stillman Valley, at SE. corner of Hotel de Rice, in concrete walk; aluminum tablet stamped "789" (recovered by U. S. C. & G. S. in 1920)-----	788.558
Davis Junction, 1.4 mi. N. and 1.0 mi. E. from, near W. cor. secs. 12 and 13, T. 42 N., R. 1 E., at junction of T-rd. E., on N. end of concrete culvert; chiseled square-----	771.25
Davis Junction, 2.4 mi. N. and 1.0 mi. E. from, 3.5 mi. S. of New Milford, near SE. cor. sec. 2, T. 42 N., R. 1 E., in NW. angle of crossroads, 2 ft. from fence corner, in 24-in. granite boulder; aluminum tablet stamped "778"-----	777.073
New Milford, at S. end of steel bridge over Kishwaukee River, in E. end of concrete abutment; aluminum tablet stamped "710" <sup>22</sup> -----	708.828
New Milford, at S. end of concrete bridge over Kishwaukee River, in E. end of concrete abutment; State Division of Highways metal disk (set in 1933)-----	707.879
New Milford, 0.6 mi. N. of, 0.25 mi. E. of SW. cor. sec. 13, T. 43 N., R. 1 E., in NE. angle of crossroads, on W. end of concrete wing wall of bridge; chiseled square-----	746.65
New Milford, 1.6 mi. N. of, 0.25 mi. E. of NW. cor. sec. 13, T. 43 N., R. 1 E., in SW. angle of crossroads, on W. wing wall of concrete bridge; chiseled square-----	750.20
New Milford, 2.6 mi. N. of, 3.0 mi. S. and 1.3 mi. E. from Rockford post office, 0.25 mi. E. of NW. cor. sec. 12, T. 43 N., R. 1 E., in SE. angle of crossroads, in S. end of concrete bridge; aluminum tablet stamped "729"-----	728.152

[Continued in Rockford quadrangle, line 11]

<sup>21</sup> In 1917 it was reported that the bridge had been moved 50 ft. north and that stone coping was beginning to give way.

<sup>22</sup> In 1933 this bench mark was destroyed and replaced by the bench mark given in the following description.

# 1498 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

3. From point on Chicago Great Western Railway 3.5 miles northwest of Esmond north along roads to Monroe Center (by J. B. Metcalfe, Jr., in 1917)

[Continued from Kirkland quadrangle, line 1]

Esmond, 3.5 mi. NW. of, 1.5 mi. SE. of Lindenwood, 0.12 mi. NW. of E $\frac{1}{4}$ cor. sec. 9, T. 41 N., R. 2 E., 550 ft. NW. of crossing of C. G. W. Ry. and N.-S. rd., on NE. side of track, at NE. corner of culvert, in top of stone; aluminum tablet stamped "774"-----	Feet 773.275
---	-----------------

[Jogs into Kirkland quadrangle, line 2]

Monroe Center, 79 ft. W. of sta., in E. face of stone foundation of elevator building owned by D. A. Cipperly, 1.5 ft. N. of SE. corner, 3.5 ft. above ground; center of copper bolt leaded horizontally (U. S. C. E. B. M. 78; recovered by U. S. C. & G. S. in 1920)-----	842.502
---	---------

4. From point on Chicago Great Western Railway 1.5 miles southeast of Lindenwood along roads south and west by way of Kings to Third Meridian road, thence north to Stillman Valley (first six miles by F. A. Danforth; remainder of line by C. C. Holder in 1917)

Lindenwood, 3.1 mi. S. and 1.5 mi. E. from, near NE. cor. sec. 28, T. 41 N., R. 2 E., on W. side of rd., opposite junction of T-rd. E., 15 ft. S. of corner fence post; standard iron post with bronze cap stamped "Prim Trav Sta No 2 1912 781" <sup>33</sup> -----	779.754
--	---------

Lindenwood, 3.1 mi. S. and 0.5 mi. W. from, 3.4 mi. E. of Kings, near SE. cor. sec. 19, T. 41 N., R. 2 E., in NW. angle of crossroads, at center of N. end of concrete bridge; chiseled square-----	831.02
---	--------

Kings, 2.5 mi. E. of, 0.08 mi. W. of SE. cor. sec. 24, T. 41 N., R. 1 E., 400 ft. W. of offset crossroads, in N. end of concrete bridge; standard tablet stamped "849"-----	848.774
---	---------

Kings, 900 ft. W. of crossing of Chicago, Burlington & Quincy R. R. and E.-W. rd., 0.25 mi. W. of S $\frac{1}{4}$ cor. sec. 22, T. 41 N., R. 1 E., in N. end of concrete bridge; aluminum tablet stamped "893" <sup>34</sup> -----	892.376
--	---------

Kings, 1.4 mi. W. thence 0.2 mi. N. from, 0.25 mi. N. of SE. cor. sec. 20, T. 41 N., R. 1 E., in NW. angle of offset crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 1 1912 887" (recovered in 1934)-----	886.937
--	---------

Kings, 3.0 mi. W. and 0.5 mi. N. from, 0.27 mi. W. of center of sec. 19, T. 41 N., R. 1 E., 0.19 mi. E. of junction of T-rd. E., on N. side of rd., in concrete bridge; aluminum tablet stamped "870" (recovered in 1934)-----	869.200
--	---------

Kings, 3.2 mi. W. and 2.0 mi. N. from, at W. cor. secs. 7 and 18, T. 41 N., R. 1 E., near Meridian School, in center of crossroads, on stone marking section corner; highest point-----	830.33
---	--------

Kings, 3.2 mi. W. and 4.0 mi. N. from, 3.2 mi. S. and 0.3 mi. E. from Stillman Valley, near SW. cor. sec. 31, T. 42 N., R. 1 E., at Youngs School, in concrete foundation, 2 ft. S. of door of schoolhouse; aluminum tablet stamped "787"-----	786.492
--	---------

<sup>33</sup> In 1937 this bench mark was moved 3 ft. south and 4 ft. west from its original position and reset at an elevation 0.720 ft. lower than that originally determined. The figures given represent the new elevation.

<sup>34</sup> Destroyed; date not known. Superseded by standard tablet stamped "893," described in line 8.

5. From point 1.5 miles south and 0.2 mile east from Byron generally east along road to Stillman Valley (by C. C. Holder in 1917; last 3.5 miles releveled by S. L. Parker in same year)

[Continued from Oregon quadrangle, line 4]

Byron, 1.7 mi. SE. of, 3.0 mi. in air line W. of Stillman Valley, 0.1 mi. S. of E $\frac{1}{4}$ cor. sec. 5, T. 24 N., R. 11 E., 560 ft. S. of junction of T-rd. E., 600 ft. N. of junction of T-rd. W., on W. side of rd., in concrete bridge; aluminum tablet stamped "744"-----	Feet 743.114
Stillman Valley, 2.0 mi. SW. of, in SW $\frac{1}{4}$ sec. 3, T. 24 N., R. 11 E., on N. side of steel bridge over Black Walnut Creek, on E. abutment; mark not described-----	693.78

6. From Rockford along roads west and southwest to Farb Corner, thence alternately north and west to point 1 mile south of Winnebago (by C. H. Semper in 1917; releveled to Farb Corner by S. L. Parker in same year)

[Connects with lines 7 and 11 in Rockford quadrangle]

Rockford, 1.3 mi. S. of post office, on South Main Street, 0.2 mi. SW. of bridge over Rock River, in sec. 34, T. 44 N., R. 1 E., in SW. angle of junction of T-rd. W., in root on W. side of 15-in. elm tree; copper nail and washer-----	712.25
Rockford, 1.3 mi. S. and 0.3 mi. W. from, in NW $\frac{1}{4}$ sec. 34, T. 44 N., R. 1 E., in NE. angle of crossroads, 50 ft. E. of N.-S. rd., on N. head wall of culvert; chiseled square-----	716.85
Rockford, 1.3 mi. S. and 1.4 mi. W. from, 2.4 mi. NE. of Farb Corner, near NW. cor. sec. 33, T. 44 N., R. 1 E., in E. angle of Y-rd. junction, on N. head wall of culvert; chiseled square-----	756.88
Farb Corner, 1.0 mi. NE. of, near SE. cor. sec. 31, T. 44 N., R. 1 E., 220 ft. N. of Centerville School, in NW. angle of offset crossroads, 6 ft. E. of corner fence post, in root on S. side of 42-in. maple tree; copper nail and washer-----	816.55

[Continued in Rockford quadrangle, line 10]

7. From crossroads 1.6 miles north of New Milford along roads alternately east and south to point 6.5 miles north of Monroe Center (by S. L. Parker in 1917)

New Milford, 1.6 mi. N. and 2.0 mi. E. from, 0.25 mi. E. of NW. cor. sec. 17, T. 43 N., R. 2 E., in SW. angle of junction of T-rd. W., in root on E. side of 12-in. elm tree; copper nail and washer---	868.43
New Milford, 0.6 mi. N. and 2.0 mi. E. from, 0.25 mi. E. of NW. cor. sec. 20, T. 43 N., R. 2 E., in fence line on S. side of E.-W. rd., directly opposite T-rd. N., in root on N. side of 15-in. maple tree; copper nail and washer-----	837.10

[Connects with line 4 in Kirkland quadrangle]

8. From Kings generally west along road to sec. 10, T. 23 N., R. 11 E., thence south to point 1.3 miles north of Chana (by U. K. Sick in 1934)

Kings triangulation sta. (U. S. C. & G. S.), 600 ft. S. of R. R. sta. at Kings, on W. side of Chicago, Burlington & Quincy R. R. track, 75 ft. N. of S. end of triangular lot, 54 ft. W. of W. rail of main track, in concrete post; U. S. C. & G. S. standard triangulation disk stamped "Kings"-----	883.377
--	---------

# 1500 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Hamilton triangulation sta. (U. S. C. & G. S.), 0.2 mi. N. of Kings, on E. side of C. B. & Q. R. R. track, at first curve N. of Kings, 31 ft. E. of E. rail, in concrete post; U. S. C. & G. S. standard triangulation disk stamped "Hamilton"-----	<i>Feet</i> 891.967
Kings, 0.2 mi. W. of, 0.25 mi. W. of S¼ cor. sec. 22, T. 41 N., R. 1 E., 750 ft. W. of crossing of C. B. & Q. R. R. and E.-W. rd., 38 ft. N. of center line of rd., in concrete post; standard tablet stamped "893" <sup>25</sup> -----	892.330
Kings, 1.1 mi. W. from, 650 ft. W. of quarter corner between secs. 21 and 28, T. 41 N., R. 1 E., on top of N. head wall of culvert; chiseled square-----	882.63
Kings, 2.4 mi. W. and 0.2 mi. N. from, 0.25 mi. N. of SW. cor. sec. 20, T. 41 N., R. 1 E., in SE. angle of junction of T-rd. E., on S. head wall of concrete culvert under rd. E.; chiseled square-----	875.79
Kings, 3.3 mi. W. of, near SE. cor. oversize sec. 1, T. 23 N., R. 11 E., 110 ft. W. of crossroads, on N. head wall of concrete culvert; chiseled square-----	883.56
Kings, 4.1 mi. W. of, near SW. cor. oversize sec. 1, T. 23 N., R. 11 E., 109 ft. N. and 23 ft. E. from crossroads, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "3 12 1934"-----	859.520
Kings, 5.1 mi. W. of, 1.6 mi. N. and 0.8 mi. E. from Chana, near N. cor. secs. 10 and 11, T. 23 N., R. 11 E., in SW. angle of crossroads, on top of S. head wall of concrete culvert under rd. W.; chiseled square-----	828.10
Chana, 1.6 mi. N. of, 0.25 mi. E. of NW. cor. sec. 10, T. 23 N., R. 11 E., 37 ft. S. and 140 ft. E. from crossroads, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "3 13 1934"-----	794.140

[Continued in Rochelle quadrangle, line 8]

<sup>25</sup> This bench mark supersedes the standard tablet stamped "893," described in line 4.

# KIRKLAND QUADRANGLE

[Latitude 42°00'–42°15'; longitude 88°45'–89°00']

BOONE, DE KALB, OGLE, AND WINNEBAGO COUNTIES

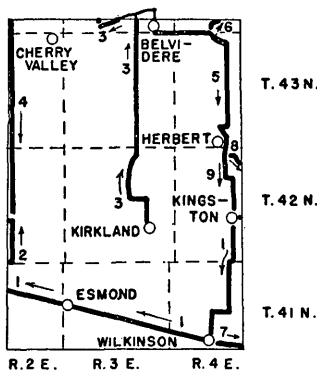


FIGURE 249.—Lines of leveling in Kirkland quadrangle.

1. From point 0.4 mile east of Kingston along roads alternately south and west to Wilkinson, thence northwest along Chicago Great Western Railway to point 3.5 miles northwest of Esmond (by J. B. Metcalfe, Jr. in 1917)

[Continued from Genoa quadrangle, line 1]

Kingston, 0.8 mi. S. of, 0.25 mi. W. of center of sec. 27, T. 42 N., R. 4 E., in SW. angle of junction of T-rd. W., on NW. end of concrete culvert; chiseled square-----	Feet 852.53
Kingston, 2.3 mi. S. of, 0.2 mi. W. of NE. cor. sec. 3, T. 41 N., R. 4 E., in SW. angle of crossroads, in SW. corner of concrete culvert; aluminum tablet stamped "849"-----	848.243
Kingston, 2.8 mi. S. and 0.2 mi. W. from, near center of section 3, T. 41 N., R. 4 E., 40 ft. S. of junction of private rd. W., on W. end of concrete culvert; chiseled square-----	848.04
Kingston, 3.8 mi. S. and 0.2 mi. W. from, near center of sec. 10, T. 41 N., R. 4 E., at Mayfield Church, 40 ft. S. and 20 ft. W. from crossroads, at NE. corner of cemetery, on NE. corner of concrete retaining wall; chiseled square-----	872.14
Kingston, 5.0 mi. S. and 0.2 mi. W. from, 1.5 mi. N. and 1.0 mi. E. from Wilkinson, 0.15 mi. S. of center of sec. 15, T. 41 N., R. 4 E., in NE. angle of junction of T-rd. E., in N. end of concrete culvert; aluminum tablet stamped "856"-----	855.825
Wilkinson, 450 ft. E. of sta., 0.15 mi. S. of N¼ cor. sec. 28, T. 41 N., R. 4 E., 3 ft. S. of main track of Chicago Great Western Ry., in top of concrete base of bell-arm of signal block; aluminum tablet stamped "886" (recovered in 1923)-----	885.626
Wilkinson, 1.1 mi. NW. of, 1.3 mi. SE. of Clare, in SW¼ sec. 20, T. 41 N., R. 4 E., on SW. side of track, on N. end of concrete culvert; chiseled square (recovered in 1923)-----	884.59

# 1502 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Clare, 300 ft. W. of sta., in NW. angle of crossing of range-line rd., at NW. corner of base of bell signal; top of bolt-----	Feet 871.76
Clare, 1.0 mi. NW. of, in NW¼ sec. 24, T. 41 N., R. 3 E., on NE. side of track, in N. corner of stone culvert; aluminum tablet stamped "843"-----	843.310
Clare, 2.6 mi. NW. of, near quarter corner between secs. 15 and 22, T. 41 N., R. 3 E., 300 ft. E. of crossing of N.-S. rd., on NE. side of track, on NE. corner of stone culvert; chiseled square-----	870.94
Clare, 3.6 mi. NW. of, 2.0 mi. SE. of Esmond, 0.2 mi. N. of S¼ cor. sec. 16, T. 41 N., R. 3 E., 250 ft. SE. of crossing of N.-S. rd., on NE. side of track, on concrete culvert; chiseled square-----	868.49
Esmond, 1.0 mi. SE. of, near center of sec. 17, T. 41 N., R. 3 E., 250 ft. NW. of crossing of N.-S. rd., on NE. side of track, at signal tower 68.9, in SE. corner of base; top of bolt-----	835.60
Esmond, 450 ft. NW. of sta., in NW. angle of crossing of N.-S. rd., in N. corner of stone culvert; aluminum tablet stamped "821"-----	820.375
Esmond, 2.3 mi. NW. of, 2.6 mi. SE. of Lindenwood, 0.2 mi. S. of W¼ cor. sec. 11, T. 41 N., R. 2 E., in NE. angle of crossing of N.-S. rd., on NW. corner of stone culvert; chiseled square-----	772.58

[Continued in Kings quadrangle, line 3]

2. From point 2.2 miles north and 3.2 miles west from Esmond along roads east 0.2 mile, thence north 2.2 miles and west 0.2 mile to point in Monroe Center (by J. B. Metcalfe, Jr. in 1917)

[A jog from Kings quadrangle, line 3]

Esmond, 2.2 mi. N. thence 3.0 mi. W. from, 2.2 mi. S. of Monroe Center, near SE. cor. sec. 33, T. 42 N., R. 2 E., in NW. angle of junction of T-rd. N., on boulder; chiseled square-----	785.76
Monroe Center, 1.2 mi. S. of, near NE. cor. sec. 33, T. 42 N., R. 2 E., in SW. angle of junction of T-rd. W., in root of 15-in. maple tree; copper bolt-----	799.82

[Continued in Kings quadrangle, line 3]

3. From Kirkland generally north along roads to point 1 mile southwest of Belvidere, thence southwest along Chicago & North Western Railway to road crossing 2.6 miles northeast of Cherry Valley (by J. B. Metcalfe, Jr. in 1917)

Kirkland, 574 ft. S. of Chicago, Milwaukee, St. Paul & Pacific R. R. track, on street running to sta. from S., in brick building owned by Dean & Rowen, 6 in. from NW. corner, in W. face of stone foundation, 5 ft. above ground; center of copper bolt leaded horizontally (U. S. C. E. B. M. 80)-----	774.342
Kirkland, 1.5 mi. N. of, 0.25 mi. N. of S¼ cor. sec. 14, T. 42 N., R. 3 E., 15 ft. N. of junction of T-rd. S., in root of tree; copper nail and washer-----	805.74
Kirkland, 1.5 mi. N. and 1.0 mi. W. from, 0.25 mi. S. of center of sec. 15, T. 42 N., R. 3 E., 150 ft. W. of junction of T-rd. N., on N. end of E. abutment of bridge; chiseled square-----	756.03
Kirkland, 3.0 mi. N. and 1.0 mi. W. from, 0.2 mi. S. of N¼ cor. sec. 10, T. 42 N., R. 3 E., 1,000 ft. S. of rd. junction, on E. side of rd., in S. end of culvert; aluminum tablet stamped "776"-----	775.008
Kirkland, 3.6 mi. N. and 0.5 mi. W. from, near E¼ cor. sec. 3, T. 42 N., R. 3 E., in NW. angle of junction of T-rd. W., in root of tree; copper nail and washer-----	794.74

Kirkland, 4.6 mi. N. and 0.5 mi. W. from, 0.8 mi. S. and 2.0 mi. E. from Irene, near E $\frac{1}{4}$ cor. sec. 34, T. 43 N., R. 3 E., 375 ft. N. of crossing of Illinois Central R. R., on W. side of rd., on culvert; chiseled square-----	<i>Feet</i> 797.20
Irene, 0.2 mi. N. and 2.0 mi. E. from, near Graves School, near W $\frac{1}{4}$ cor. sec. 26, T. 43 N., R. 3 E., 35 ft. N. of crossroads, on E. side of N.-S. rd., in culvert; aluminum tablet stamped "833"-----	832.693
Irene, 1.2 mi. N. and 2.0 mi. E. from, 4.5 mi. S. and 1.0 mi. W. from Belvidere, near E $\frac{1}{4}$ cor. sec. 22, T. 43 N., R. 3 E., in SW. angle of junction of T-rd. W., in root of tree; copper nail and washer-----	864.75
Belvidere, 2.8 mi. S. and 1.0 mi. W. from, 0.23 mi. N. of SW. cor. sec. 11, T. 43 N., R. 3 E., on E. side of rd., in culvert; aluminum tablet stamped "823"-----	822.880
Belvidere, 2.0 mi. S. and 1.0 mi. W. from, near Witbeck School, near NW. cor. sec. 11, T. 43 N., R. 3 E., on E. side of rd., at junction of T-rd. W., on culvert; chiseled square-----	791.74
Belvidere, 1.0 mi. S. and 1.0 mi. W. from, near SW. cor. sec. 35, T. 44 N., R. 3 E., in NE. angle of crossroads, on culvert; chiseled square----	785.51

[Jogs into Belvidere quadrangle, line 4]

Belvidere, 0.6 mi. S. and 3.0 mi. W. from, 2.6 mi. NE. of Cherry Valley, 0.1 mi. S. and 0.1 mi. W. from E $\frac{1}{4}$ cor. sec. 32, T. 44 N., R. 3 E., in NE. angle of crossing of Chicago & North Western Ry. and N.-S. rd., in signpost; spike-----	763.87
---	--------

4. From point 1 mile north and 2.5 miles west from Cherry Valley south along road to Monroe Center (by F. A. Danforth in 1917)

[Continued from Belvidere quadrangle, line 3]

Cherry Valley, 0.5 mi. S. and 2.4 mi. W. from, 3.1 mi. S. and 5.0 mi. E. from Rockford, 1.0 mi. NW. of Perryville, 0.2 mi. N. of SE. cor. sec. 4, T. 43 N., R. 2 E., 50 ft. S. of crossing of Illinois Central R. R. and N.-S. rd., in W. end of concrete bridge; aluminum tablet stamped "792"-----	791.349
Perryville, 0.6 mi. S. and 1.0 mi. W. from, near SE. cor. sec. 9, T. 43 N., R. 2 E., on W. end of concrete bridge; chiseled square-----	753.04
Perryville, 1.7 mi. S. and 1.0 mi. W. from, near N. cor. secs. 21 and 22, T. 43 N., R. 2 E., at NW. end of steel bridge over Kishwaukee River, in W. end of concrete abutment; aluminum tablet stamped "Prim Trav Sta No 10 1917 714" (reset in 1934; see following description)-----	713.242
Perryville, 1.7 mi. S. and 1.0 mi. W. from, 140 ft. E. of E. end of bridge over Kishwaukee River, 100 ft. S. of center of highway, at SW. corner of intersecting highways, in concrete monument; aluminum tablet stamped "730" <sup>80</sup> -----	728.959
Perryville, 2.7 mi. S. and 1.0 mi. W. from, near S. cor. secs. 21 and 22, T. 43 N., R. 2 E., 150 ft. N. of junction of T-rd. E., on coping of concrete bridge; chiseled square-----	733.15
Perryville, 3.7 mi. S. and 1.0 mi. W. from, 4.7 mi. N. of Monroe Center, near NE. cor. sec. 33, T. 43 N., R. 2 E., in SW. angle of crossroads, in root of maple tree; copper nail and washer-----	798.38
Monroe Center, 3.6 mi. N. of, about 800 ft. S. of Ogle-Winnebago county line, 0.15 mi. S. of NE. cor. sec. 4, T. 42 N., R. 2 E., in W. end of concrete bridge; aluminum tablet erroneously stamped "822"-----	824.594

<sup>80</sup> The mark, in its new position, is 374.3 ft. S.17°51'E. from previous location.

# 1504 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

[Connects with line 3 in Kings quadrangle]

5. From Belvidere along roads alternately south and east to Kingston (by C. C. Gardner and H. S. Senseney in 1917; last seven miles releveled by E. W. Gouchenour in 1936)

[Continued from Belvidere quadrangle, line 6]

Belvidere, 1.0 mi. S. and 0.6 mi. E. from, near N $\frac{1}{4}$ cor. sec. 1, T. 43 N., R. 3 E., 280 ft. E. of junction of T-rd. N., on S. end of concrete culvert; chiseled square-----	Feet 822.24
Belvidere, 1.0 mi. S. and 2.4 mi. E. from, 0.3 mi. W. of Gould School, 0.1 mi. W. of N $\frac{1}{4}$ cor. sec. 5, T. 43 N., R. 4 E., in SW. corner of concrete bridge; standard tablet stamped "786" <sup>37</sup> -----	785.126
Belvidere, 1.0 mi. S. and 3.0 mi. E. from, 0.2 mi. E. of Gould School, near SW. cor. sec. 33, T. 44 N., R. 4 E., in NE. angle of junction of rd. N., on granite rock; chiseled square-----	798.07
Gould School, 1.5 mi. SE. of, near E $\frac{1}{4}$ cor. sec. 4, T. 43 N., R. 4 E., 125 ft. NW. of junction of rd. S., on N. end of concrete culvert; chiseled square-----	779.08
T. 43 N., R. 4 E., near E $\frac{1}{4}$ cor. sec. 9, 200 ft. W. of crossroads, in SW. abutment of iron bridge over Mosquito Creek; aluminum tablet stamped "785"-----	784.540
T. 43 N., R. 4 E., 0.15 mi. N. of SW. cor. sec. 15, 450 ft. S. of crossroads, on E. end of concrete culvert; chiseled square-----	824.74
T. 43 N., R. 4 E., 400 ft. N. of SW. corner sec. 22, on E. end of culvert; chiseled square-----	829.87
T. 43 N., R. 4 E., 120 ft. W. of SE. cor. sec. 28, 0.6 mi. E. of Davis School, 0.8 mi. N. and 0.6 mi. E. from Herbert, on N. end of concrete culvert under E.-W. rd.; chiseled square-----	839.89
Herbert, 0.8 mi. in air line N. of, near Davis School, near N $\frac{1}{4}$ cor. sec. 33, T. 43 N., R. 4 E., 150 ft. SE. of rd. fork, on SW. head wall of concrete culvert; chiseled square (established in 1936)-----	846.02
Herbert, 0.5 mi. S. and 0.3 mi. E. from, 0.23 mi. S. and 0.25 mi. W. from NE. cor. sec. 4, T. 42 N., R. 4 E., in E. end of concrete culvert; aluminum tablet stamped "861" (recovered in 1923) <sup>38</sup> -----	860.071
Herbert, 0.2 mi. S. and 0.3 mi. E. from, 0.25 mi. W. of NE. cor. sec. 4, T. 42 N., R. 4 E., 6 ft. S. of Boone-De Kalb county line, on E. side of rd., in concrete post; standard tablet stamped "G 3 1936" (replaces aluminum tablet stamped "861")-----	858.772
Herbert, 0.8 mi. SE. of along C. & N. W. Ry., 0.25 mi. E. of center of sec. 4, T. 42 N., R. 4 E., 200 ft. N. of crossing of R. R. and N.-S. rd., on W. side of rd., in field, in root on E. side of 8-in. wild-cherry tree; copper nail and washer (established in 1936 to replace similar mark in same tree, described in line 8)-----	869.53
Herbert, 2.0 mi. S. and 0.3 mi. E. from, near Arbuckle School, near center of SE $\frac{1}{4}$ sec. 9, T. 42 N., R. 4 E., in NW. angle of crossroads, in root of tree; copper nail and washer (not recovered in 1936)-----	849.23
Arbuckle School, 0.5 mi. SE. thence 0.6 mi. S. from, 1.2 mi. N. of Kingston, 0.25 mi. W. of center of sec. 15, T. 42 N., R. 4 E., 50 ft. N. of junction of T-rd. W., on E. side of rd., in root of tree; copper nail and washer (not recovered in 1936)-----	819.12

<sup>37</sup> In 1935 this bench mark was reset in a new bridge at the same elevation.

<sup>38</sup> In 1933 this bench mark was destroyed and replaced by a standard tablet. See following description.

Kingston, 1.0 mi. N. of, in SW $\frac{1}{4}$ sec. 15, T. 42 N., R. 4 E., 900 ft. S. of junction of T-rd. W., on E. side of rd., in yard of abandoned farmhouse, 75 ft. S. of entrance gate, in root on NW. side of 15-in. hickory tree; copper nail and washer (established in 1936)-----	Feet 823.23
South Branch of Kishwaukee River, 0.2 mi. N. of Kingston, under bridge; surface of water Sept. 24, 1917-----	775.2
Kingston, in SE. corner of intersection of Main Street and State Highway 72, at NE. corner of post office, 2 ft. W. of angle of sidewalk; aluminum tablet stamped "793" <sup>39</sup> -----	791.277
Reference mark, 600 ft. E. of tablet, on S. head wall of concrete culvert under State Highway 72; chiseled square (established in 1936)-----	791.00

[Connects with line 1 in Genoa quadrangle]

6. From point on township-line road 1 mile south and 2.4 miles east from Belvidere along roads east and northeast to point 0.5 mile south and 3.5 miles east from Belvidere (by H. S. Senseney in 1917)

Coon Creek, in SW $\frac{1}{4}$ sec. 33, T. 44 N., R. 4 E., under highway bridge; surface of water-Sept. 28, 1917-----	755.1
--	-------

[Continued in Belvidere quadrangle, line 7]

7. From Wilkinson southeast along Chicago Great Western Railway and road 1.8 miles (by S. R. Archer in 1923)

Wilkinson, 1.1 mi. SE. of, 1.1 mi. W. of Five Points, 0.15 mi. NE. of center of sec. 27, T. 41 N., R. 4 E., on SW. side of track, on SE. end of SW. head wall of concrete culvert; chiseled square-----	860.51
---	--------

[Continued in Genoa quadrangle, line 4]

8. From road junction 0.8 mile north and 0.6 mile east from Herbert along road generally south to road junction 0.8 mile southeast of Herbert, thence east and southeast to point 2.7 miles north and 0.5 mile east from Kingston (by G. F. Williams in 1923)

Herbert, 0.8 mi. along Chicago & North Western Ry. SE. of, 0.25 mi. E. of center of sec. 4, T. 42 N., R. 4 E., 200 ft. N. of crossing of R. R. and N.-S. rd., in field, on W. side of rd., in root on E. side of 8-in wild-cherry tree; copper nail and washer (not recovered in 1936; replaced by similar mark in same tree, described in line 5)-----	869.58
Herbert, 0.8 mi. SE. and 0.6 mi. E. from, 0.2 mi. W. of center of sec. 3, T. 42 N., R. 4 E., 40 ft. N. and 50 ft. W. from junction of NW.-SE. rd., 5 ft. from fence corner, on concrete base of iron fence brace; chiseled square-----	864.38
Herbert, 1.2 mi. S. and 1.3 mi. E. from, 1.7 mi. in air line E. of Colvin Park, 2.7 mi. N. and 0.5 mi. E. from Kingston, 0.2 mi. E. of S $\frac{1}{4}$ cor. sec. 3, T. 42 N., R. 4 E., at North Kingston School, in NE. angle of junction of rd. E., in schoolyard, 90 ft. S. of SW. corner of schoolhouse, in root on SW. side of 10-in. forked cottonwood tree; copper nail and washer-----	856.00

[Continued in Genoa quadrangle, line 8]

<sup>39</sup> In 1932 this bench mark was lowered 0.661 ft.

# 1506 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

9. From road crossing 0.8 mile southeast of Herbert south along road to crossroads 0.5 mile south, thence 0.8 mile southeast from Colvin Park (by G. F. Williams in 1923; leveled twice)

Herbert, 2.0 mi. S. and 0.3 mi. E. from, 0.5 mi. S. thence 0.8 mi. SE. from Colvin Park, at Arbuckle School, near center of SE $\frac{1}{4}$ sec. 9, T. 42 N., R. 4 E., in SW. corner of schoolyard, 3 ft. E. of fence; standard iron post with bronze cap stamped "Prim Trav Sta No 11 1917" (recovered in 1936)-----	<i>Feet</i> 849.723
Reference mark, at entrance to schoolhouse, on SW. corner of first step; chiseled square (recovered in 1936)-----	850.00

# LA SALLE QUADRANGLE

[Latitude 41°15'–41°30'; longitude 89°00'–89°15']

## BUREAU, LA SALLE, AND PUTNAM COUNTIES

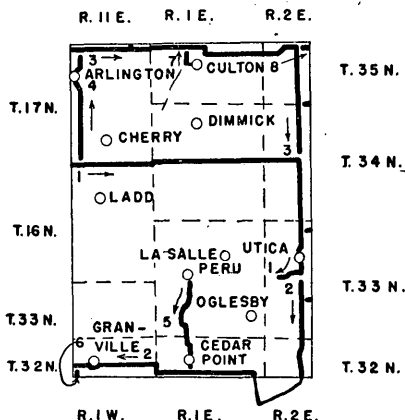


FIGURE 250.—Lines of leveling in La Salle quadrangle.

1. From point 4.5 miles south of Arlington east along road to crossroads 5 miles north of Utica, thence south to point 0.8 mile south and 1.3 miles west from Utica (by Henry Bücher in 1908; portion of line between Bureau-La Salle county line and Center School releveled by H. S. Hall in 1941)

[Continued from Hennepin quadrangle, line 3]

Arlington, 4.5 mi. S. thence 0.5 mi. E. from, 1.7 mi. N. thence 1.0 mi. W. from Ladd, 1.3 mi. S. and 1.3 mi. W. from Cherry, near SW. cor. sec. 33, T. 17 N., R. 11 E., at crossroads, at NE. corner of iron bridge over Negro Creek, on top of concrete abutment; chiseled square-----	Feet 653.44
Ladd, 1.7 mi. N. of, 1.3 mi. S. and 0.3 mi. W. from Cherry, near SE. cor. sec. 33, T. 17 N., R. 11 E., in NW. angle of offset crossroads, 1 ft. S. and 54 ft. W. from fence corner; standard iron post with bronze cap stamped "1908 675"-----	674.618
Ladd, 1.7 mi. N. and 2.8 mi. E. from, 2.0 mi. S. and 2.5 mi. W. from Dimmick, at Bureau-La Salle county line, near SE. cor. sec. 36, T. 17 N., R. 11 E., in NW. angle of junction of T-rd. W., 1 ft. S. and 12 ft. W. from fence corner; standard iron post with bronze cap stamped "1908 663" <sup>40</sup> -----	663.314
Dimmick, 2.0 mi. S. and 2.1 mi. W. from, near S¼ cor. sec. 18, T. 34 N., R. 1 E., at NE. corner of small iron bridge over Spring Creek, on top of stone abutment, 2.5 ft. SW. of NE. corner and 0.4 ft. from W. edge; chiseled square-----	640.50

<sup>40</sup> Recovery of this bench mark in 1941 indicated that it had been disturbed.

# 1508 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Dimmick, 2.0 mi. S. and 0.5 mi. E. from, at Center School, near SE. cor. sec. 16, T. 34 N., R. 1 E., in NW. angle of crossroads, in SE. corner of schoolyard, 1 ft. N. and 17 ft. W. from fence corner; standard iron post with bronze cap stamped "1908 659" -----	<i>Feet</i> 658.701
Dimmick, 2.0 mi. S. and 1.7 mi. E. from, 0.25 mi. E. of SW. cor. sec. 14, T. 34 N., R. 1 E., at NE. corner of iron bridge over Vermilion River, on top near E. end of wing wall; chiseled square-----	599.69
Dimmick, 2.0 mi. S. and 2.7 mi. E. from, 0.16 mi. E. of NW. cor. sec. 24, T. 34 N., R. 1 E., at S. end of E. concrete abutment of bridge over Tomahawk Creek, on top of bridge seat, 0.7 ft. S. of S. edge of truss, 0.7 ft. E. of W. edge of abutment; chiseled square-----	612.53
Dimmick, 2.0 mi. S. and 5.5 mi. E. from, 5.0 mi. N. of Utica, near NW. cor. sec. 21, T. 34 N., R. 2 E., in SE. angle of crossroads, 3.5 ft. E. and 1 ft. N. from fence corner; standard iron post with bronze cap stamped "1908 640" -----	639.731
Utica, 3.8 mi. N. of, 0.2 mi. S. of NE. cor. sec. 29, T. 34 N., R. 2 E., at SW. corner of bridge over Pecumsaugan Creek, on concrete abutment; chiseled square-----	595.51
Utica, 1.4 mi. N. of, near E¼ cor. sec. 5, T. 33 N., R. 2 E., in NW. angle of crossroads, 3.7 ft. E. of fence corner, in line with fence W.; standard iron post with bronze cap stamped "Prim Trav Sta No 8 1908 619" (recovered in 1911)-----	618.615
Utica, 0.8 mi. S. of, at N. stone abutment of bridge over Illinois River, on E. wing wall, on top of NE. end stone of lowest stepped course below bridge seat; highest point within cut square (U. S. C. E. T. B. M. 347)-----	454.156
Utica, 0.8 mi. S. of, at bridge over Illinois River, in top of concrete cap of first pier S. of N. end of bridge; aluminum tablet stamped "1908 468" (recovered in 1911)-----	467.218
Utica, 0.8 mi. S. thence 1.3 mi. W. from, in SE¼ sec. 18, T. 33 N., R. 2 E., near junction of river rd. and rd. to Utica, 16.5 ft. N. of small box-elder tree; U. S. C. E. B. M. 78	
cap on iron pipe-----	454.888
bolt in limestone block-----	450.931

## 2. From point 0.8 mile south of Utica south along road to Lowell, thence generally west to point 1.2 miles west of Granville (by Henry Bücher in 1908)

Utica, 3.7 mi. S. of, 2.5 mi. N. of Lowell, at Clayton School, near W¼ cor. sec. 33, T. 33 N., R. 2 E., on E. side of rd., opposite T-rd. W., in SW. corner of schoolyard, 1 ft. N. and 8 ft. E. from fence corner; standard iron post with bronze stamped "1908 651" (recovered in 1911)-----	650.125
Lowell, 0.3 mi. N. of, in SE¼ sec. 8, T. 32 N., R. 2 E., at iron bridge over Vermilion River, on top of SE. corner of concrete wing wall, 0.8 ft. S. of N. edge and 0.1 ft. W. of E. edge; chiseled square-----	533.55

[Jogs into Wenona quadrangle, line 1]

Lowell, 2.5 mi. in air line W. of, 1.9 mi. N. of Ticona, 3.0 mi. S. of Oglesby, 0.1 mi. W. of N¼ cor. sec. 13, T. 32 N., R. 1 E., S. of junction of T-rd. W., at stone culvert, on top near S. end of wing wall; chiseled square-----	650.82
---	--------

<sup>41</sup> In 1941 this bench mark was tied to U. S. C. & G. S. standard disks designated "Lawrence," elevation 669.559 ft., and "Livingston," elevation 639.080 ft.

Oglesby, 3.0 mi. S. and 0.5 mi. W. from, 2.5 mi. N. of Tonica, 0.15 mi. W. of NE. cor. sec. 14, T. 32 N., R. 1 E., 100 ft. W. of center line of track at crossing of Illinois Central R. R., on S. side of rd., 10 ft. E. of small wild-cherry tree, 1 ft. N. of fence; standard iron post with bronze cap stamped "1908 665" (recovered by U. S. C. & G. S. in 1920)-----	<i>Feet</i> 665.097
Oglesby, 3.0 mi. S. and 3.3 mi. W. from, 0.8 mi. S. of Cedar Point, near NW. cor. sec. 16, T. 32 N., R. 1 E., in SE. angle of crossroads, 2 ft. S. and 1 ft. W. from fence corner; standard iron post with bronze cap stamped "1908 668"-----	668.150
Cedar Point, 0.2 mi. S. and 2.0 mi. W. from, 3.4 mi. E. of Granville, 1.0 mi. E. of Standard, near E $\frac{1}{4}$ cor. sec. 12, T. 32 N., R. 1 W., in SW. angle of offset crossroads, 1 ft. N. and 20 ft. W. from fence corner; standard iron post with bronze cap stamped "1908 679"---	679.084
Granville, in SE. part of, near quarter corner between secs. 9 and 10, T. 32 N., R. 1 W., in NW. angle of crossroads, at crossing of Chicago, Milwaukee, St. Paul & Pacific R. R., just N. of grain elevator and machine shops, 1 ft. S. and 22 ft. W. from fence corner; standard iron post with bronze cap stamped "1908 688"-----	687.697
Granville, in SW. part of, 500 ft. E. of W $\frac{1}{4}$ cor. sec. 9, T. 32 N., R. 1 W., on top near E. end of S. head wall of concrete culvert; chiseled square-----	679.17

[Continued in Hennepin quadrangle, line 6]

3. From point 1.5 miles north of Arlington along roads generally east to crossroads 0.5 mile east of Triumph, thence south to crossroads 5 miles north of Utica (by Henry Bücher in 1908; section from 2.3 miles west of Peterstown to 1.7 miles north of Troy Grove releveled by H. S. Senseney in 1916)

[Continued from Hennepin quadrangle, line 5]

Arlington, 1.5 mi. N. and 0.5 mi. E. from, 76 ft. SE. of NW. cor. sec. 4, T. 17 N., R. 11 E., at Price School, in SE. angle of offset crossroads, in schoolyard; standard iron post with bronze cap stamped "Prim Trav Sta No 3 1908 776"-----	775.220
Arlington, 1.5 mi. N. and 3.2 mi. E. from, 2.3 mi. W. of Peterstown, 0.25 mi. W. of NE. cor. sec. 2, T. 17 N., R. 11 E., in SW. angle of junction of T-rd. S., 1 ft. N. and 22 ft. W. from fence corner; standard iron post with bronze cap stamped "1908 722"-----	721.495
Peterstown, 1.2 mi. W. of, near SW. cor. sec. 18, T. 35 N., R. 11 E., in NE. angle of junction of T-rd. E., on base of fence post; chiseled square (established in 1916)-----	711.13
Peterstown, 0.8 mi. E. of, 0.5 mi. W. thence 1.0 mi. N. from Culton, near SE. cor. sec. 17, T. 35 N., R. 1 E., in NW. angle of crossroads, 2 ft. S. and 7 ft. W. from corner of hedgerow; standard iron post with bronze cap stamped "Prim Trav Sta No 2 1908 703" (recovered in 1930)-----	707.332
Peterstown, 3.2 mi. E. thence 0.5 mi. S. from, 0.5 mi. S. and 3.2 mi. W. from Triumph, 1.7 mi. N. of Troy Grove, at Christian Church, 0.25 mi. W. of center of sec. 23, T. 35 N., R. 1 E., in SW. angle of crossroads, at entrance on E. side of church, 1 ft. S. of N. end of step and 1 ft. E. of wall; aluminum tablet stamped "1908 684"---	683.923
Triumph, 0.5 mi. S. and 2.0 mi. W. from, near center of sec. 24, T. 35 N., R. 1 E., 180 ft. E. of junction of T-rd. N., at SW. corner of small iron bridge, on top of concrete wing wall, near W. edge of abutment; chiseled square-----	649.71

# 1510 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Triumph, at First National Bank, 0.8 ft. S. and 0.5 ft. W. from NW. corner of building, in concrete walk; aluminum tablet stamped "Prim Trav Sta No 1 1908 670" (recovered in 1930)-----	Feet 670.145
Triumph, 0.5 mi. E. thence 3.0 mi. S. from, near NE. cor. sec. 5, T. 34 N., R. 2 E., in SW. angle of offset crossroads, 1 ft. N. and 10 ft. W. from fence corner; standard iron post with bronze cap stamped "1908 673" (recovered in 1911)-----	672.281

4. From crossroads 1.2 miles south and 1.2 miles west from Cherry generally north to crossroads 1.5 miles north and 0.5 mile east from Arlington (by Henry Bücher in 1908)

Cherry, 1.3 mi. N. and 1.3 mi. W. from, 2.0 mi. S. and 0.5 mi. E. from Arlington, near quarter corner between secs. 20 and 21, T. 17 N., R. 11 E., just N. of crossroads, at SE. corner of small iron bridge, in edge of concrete abutment, on top of embedded I-beam; chiseled cross-----	685.36
Arlington, 1.0 mi. S. and 0.5 mi. E. from, near E¼ cor. sec. 17, T. 17 N., R. 11 E., in SW. angle of crossroads, 1 ft. N. and 22 ft. W. from fence corner; standard iron post with bronze cap stamped "1908 724"-----	723.362
Arlington, at general store of E. D. Larkin, a stone building, on top at N. corner of stone step at floor level; chiseled square-----	760.19

5. From Peru south along roads to crossroads 0.8 mile south of Cedar Point (by Henry Bücher in 1908)

Peru, at foot of Marion Street, at N. end of draw span of highway bridge over Illinois River, in top of bridge seat course of pier; copper bolt (U. S. C. E. B. M. 75)-----	458.460
Peru, 1.0 mi. S. of, near SE. cor. sec. 20, T. 33 N., R. 1 E., at SE. corner of iron bridge over slough, near NE. corner of abutment, on top of first course of masonry below bridge seat; chiseled square-----	457.86
Peru, 2.6 mi. S. of, 1.8 mi. N. and 0.5 mi. W. from Cedar Point, near center of sec. 32, T. 33 N., R. 1 E., in NW. angle of junction of T-rd. N., 32 ft. N. of E-W. fence, 1 ft. E. of N-S. fence; standard iron post with bronze cap stamped "1908 645"-----	645.013
Cedar Point, 0.7 mi. N. of, near E¼ cor. sec. 5, T. 32 N., R. 1 E., at NW. corner of small iron bridge over Cedar Creek, on top of masonry abutment; chiseled square-----	624.92

6. From point 0.5 mile south and 0.9 mile west from Granville north and west along roads to point 1.2 miles west of Granville (by E. E. Harris in 1929)

[Continued from Wenona quadrangle, line 5]

Granville, 0.9 mi. W. of, 0.25 mi. W. of E¼ cor. sec. 8, T. 32 N., R. 1 W., in SW. angle of junction of T-rd. S., on top at angle in head wall of concrete culvert; chiseled square-----	710.68
--	--------

[Connects with line 6 in Hennepin quadrangle]

7. From Culton west 0.5 mile, thence north 1.1 miles to point 0.1 mile north and 0.8 mile east from Peterstown (by G. W. Moore in 1930)

Culton triangulation sta. (U. S. C. & G. S.), about 5 mi. S. of Mendota, 75 yd. S. of Culton R. R. sta., 100 yd. S. of grain elevator opposite sta., 30 yd. N. of rd. crossing, directly W. of S. switch signal for elevator siding, on W. side of track, 23.85 ft. W. of W. and nearest rail, in concrete; U. S. C. & G. S. standard triangulation-station disk stamped "699.274 Culton 1920"-----	699.196
---	---------

Culton triangulation sta. reference mark (U. S. C. & G. S.), 32.18 ft. from sta. in azimuth $41^{\circ}27'$ , on W. side of track, near fence line, in concrete; U. S. C. & G. S. standard reference disk stamped "696.472 Culton 1920"-----	<i>Feet</i> 696.472
Culton, 0.5 mi. W. of, near NW. cor. sec. 28, T. 35 N., R. 1 E., 15 ft. S. and 25 ft. E. from crossroads, on S. head wall of concrete culvert under E.-W. rd.; chiseled square-----	685.77
8. From Triumph east along road 1.1 miles (by G. W. Moore in 1930)	
Triumph, 0.5 mi. E. of, near NE. cor. sec. 20, T. 35 N., R. 2 E., in SW. angle of crossroads, at concrete culvert with iron railing, on E. end of S. head wall; chiseled square-----	666.09

[Continued in Ottawa quadrangle, line 8]

# LE CLAIRE QUADRANGLE

[Latitude 41°30'–41°45'; longitude 90°15'–90°30']

## HENRY AND ROCK ISLAND COUNTIES

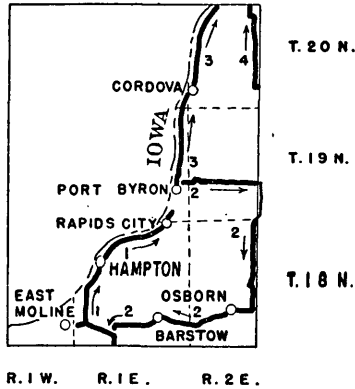


FIGURE 251.—Lines of leveling in Le Claire quadrangle.

1. From Carbon Cliff northwest and north along roads to Hampton, thence northeast along river road to point 0.8 mile south of Port Byron (by S. R. Archer in 1930)

[Continued from Orion quadrangle, line 7]

Carbon Cliff, in NW. part of, 0.12 mi. N. of S. cor. secs. 32 and 33, T. 18 N., R. 1 E., 0.45 mi. S. of intersection of State Highways 3 and 7, on W. side of angle in highway, in line with center line of rd. N., in root on SE. side of 16-in. elm tree; copper nail and washer-----	Feet 616.70
Carbon Cliff, in NW. part of, 0.1 mi. S. of quarter corner between secs. 32 and 33, T. 18 N., R. 1 E., 0.2 mi. S. of intersection of State Highways 3 and 7, 60 ft. N. of entrance at NE. corner of Boy Scout camp, on N. end of W. head wall of concrete culvert; chiseled square----	605.00
Carbon Cliff, near N. side of, 0.9 mi. E. of City Hall in Silvis, at intersection of State Highways 3 and 7, 10 ft. W. of W. edge of Highway 3, in line with N. edge of Highway 7, 270 ft. S. of S. end of highway bridge over Chicago, Rock Island & Pacific Ry., in concrete post; standard tablet stamped "T T 143 F 1929"-----	603.133
Reference mark, 65 ft. SW. of tablet, about midway of SW. side of triangle between rds., on W. end of N. head wall of concrete culvert under highway; chiseled square-----	596.82
Silvis, in SW. corner of intersection of First Avenue and Eleventh Street, in front of City Hall, on W. end of lower concrete step of entrance; chiseled square <sup>42</sup> -----	599.23

<sup>42</sup> In 1936 this bench mark was tied to U. S. C. & G. S. monel-metal rivet designated "RV 11," elevation 590.517 ft.

East Moline, at E. city limits, at SW. corner of Eighteenth Avenue and Nineteenth Street, at main middle entrance on N. side of double brick store building, on N. side at W. end of concrete step and floor of entrance; chiseled square-----	<i>Feet</i> 596.29
East Moline, at SE. corner of intersection of Eighteenth Avenue and Thirteenth Street, 16 ft. E. of curb intersection, 1 ft. E. of traffic-light signal, on concrete curb; chiseled square-----	585.25
East Moline, 30 ft. N. and 80 ft. E. from intersection of Ninth Street and Sixteenth Avenue, 90 ft. W. of center line of sidewalk to S. entrance of City Hall, at N. edge of sidewalk, 3 ft. E. of E. edge of walk to bandstand, in concrete post; standard tablet stamped "T T 144 F 1929" <sup>43</sup> -----	575.584
Reference mark, at S. entrance of City Hall, on E. end of lower step; chiseled square-----	576.71
East Moline (Watertown), on W. side of Nineteenth Street, 120 ft. N. of intersection of Thirteenth Street, 40 ft. S. of Third Avenue, at entrance to African Methodist Church, on S. end of concrete step; chiseled square-----	575.37
Watertown, in front of Chicago, Milwaukee, St. Paul & Pacific R. R. sta.; top of SE. rail of main track-----	569.6
East Moline, 1.1 mi. N. of Watertown sta., 0.8 mi. S. of Hampton, about 35 ft. below milepost 508, 2 ft. W. of E. right-of-way fence of C. M. St. P. & P. R. R.; Mississippi River Comm. B. M. 152/2 <sup>44</sup> -----	577.643
cap on iron pipe-----	573.603
bolt in tile-----	
Hampton, at S. edge of, in NW $\frac{1}{4}$ sec. 17, T. 18 N., R. 1 E., 25 ft. S. and 10 ft. E. from junction of River and Walnut Streets, at W. edge of sidewalk, in concrete post; standard tablet stamped "T T 151 F 1929" <sup>45</sup> -----	575.144
Hampton, on E. side of brick schoolhouse, near SE corner, 1.6 ft. above ground; center of hole in copper bolt set horizontally (U. S. C. E. B. M. 44)-----	580.022
Hampton, on E. side of River Street, facing Mississippi River, at entrance to City Hall, on S. end of top step; chiseled square-----	581.52
Hampton, at NW. corner of Baker & Hayward brick store building, on levee, on stone foundation, at high-water mark of 1880; center of hole in copper bolt (U. S. C. E. B. M. 45)-----	569.999
Hampton, 0.2 mi. along river rd. N. of, on top of W. wing wall of S. abutment of concrete culvert; chiseled square-----	570.48
Hampton, 1.1 mi. NE. of, 60 ft. NE. of concrete culvert, on SE. side of river rd., on NE. side of driveway to farm buildings of Mrs. Potter, in root on NW. side of 36-in. cottonwood tree; copper nail and washer-----	573.84
Hampton, 1.7 mi. NE. of, on N. wing wall of W. abutment of concrete bridge; chiseled square-----	570.46
Hampton, 2.2 mi. NE. of, 0.2 mi. above bridge 496 E, 656 ft. below bridge 494 E, on line between properties of John Gumber and Perry Willard, 43 ft. from S. rail of C. M. St. P. & P. R. R., 3 ft. N. of S. right-of-way fence; Mississippi River Comm. B. M. 153/2 <sup>46</sup> -----	
cap on iron pipe-----	586.810
bolt in tile-----	582.781

<sup>43</sup> In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "V 52 1934," elevation 578.303 ft.

<sup>44</sup> This bench mark is in soft ground, possibly settled 0.120 ft.

<sup>45</sup> The pipe is in soft ground; may have settled.

# 1514 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Hampton, 2.9 mi. NE. of, 1.6 mi. SW. of Rapids City, in SW¼ sec. 3, T. 18 N., R. 1 E., 30 ft. S. and 35 ft. W. from junction of rd. S., 290 ft. N. of State highway, in concrete post; standard tablet stamped "T T Sta 152 F 1929"-----	<i>Feet</i> 581.039
Reference mark, 280 ft. S. of tablet, in NW. corner of crossroads, on N. angular concrete head wall of culvert under State Highway; chiseled square-----	591.76
Rapids City, 1.1 mi. SW. of, just S. of C. M. St. P. & P. R. R. bridge E 486, on N. wing wall of E. abutment of concrete highway bridge; chiseled square-----	581.94
Rapids City, 1.1 mi. SW. of, 502 ft. below bridge E 486, which is just above brick house on property of Simonson & Shafer, 10 ft. N. of N. rail of C. M. St. P. & P. R. R., halfway down slope of fill; Mississippi River Comm. B. M. and triangulation sta., Rapids City base line, sta. "Lower Base"	
cap on iron pipe-----	580.080
bolt in tile-----	576.060
Rapids City, 0.4 mi. SW. of, directly S. of brick house on river rd., on S. head wall of concrete culvert under highway; chiseled square-----	593.18
Rapids City, 0.14 mi. W. of C. M. St. P. & P. R. R. sta., at top of cut, opposite brick house of George Michaels, 102 ft. S. of front face of house, 5 ft. E. of line of W. face extended, 38 ft. N. of S. right-of-way fence, 20 ft. S. of center line of track; Mississippi River Comm. B. M. and triangulation sta., Rapids City base line, sta. "Upper Base"	
cap on iron pipe-----	593.570
bolt in tile-----	589.589
Rapids City, 425 ft. E. of C. M. St. P. & P. R. R. sta., 200 ft. E. of crossroads, on W. end of N. head wall of concrete bridge; chiseled square-----	582.36
Rapids City, 1.0 mi. N. of, 0.8 mi. S. of Port Byron, at C. M. St. P. & P. R. R. bridge over Barbers Creek, in W. end of N. stone abutment; copper bolt leaded vertically (U. S. C. E. B. M. 47)-----	579.864
2. From Port Byron along roads east to crossroads 3.7 miles west of Hillsdale, thence south to road junction 1.3 miles east of Osborn, thence west by way of Barstow to intersection of State Highways 3 and 7 in Carbon Cliff (by S. R. Archer in 1930)	
Port Byron, at City Hall, 75 ft. from river bank, between Main Street and R. R., in W. side of building. 6 ft. N. of SW. corner, 3 ft. above ground; copper bolt (U. S. C. E. B. M. 48)-----	581.341
Port Byron, 138 ft. E. of center line of main track of Chicago, Milwaukee, St. Paul & Pacific R. R., 25 ft. S. and 40 ft. E. from junction of T-street E., 9 ft. N. and 3 ft. E. from NW. corner of store of S. L. Pearsall, in concrete post; standard tablet stamped "T T 153 F 1929"	584.783
Port Byron, on E. side of Main Street, at brick store building of A. H. Wandt, on N. side of S. iron doorstep; cross cut through center of bolt head (U. S. C. E. B. M. 49)-----	587.253
Port Byron, 0.6 mi. N. of City Hall, at N. end of town, just N. of line between secs. 24 and 25, T. 19 N., R. 1 E., 300 ft. S. of junction of T-rd. E. and street W., on N. end of W. head wall of concrete highway bridge; chiseled square-----	593.96

Port Byron, 0.6 mi. N. thence 0.9 mi. E. from, near S $\frac{1}{4}$ cor. sec. 19, T. 19 N., R. 2 E., 490 ft. W. of junction of rd. SW., on W. end of S. head wall of concrete cattle run under concrete highway; chiseled square-----	Feet 714.69
Port Byron, 0.6 mi. N. thence 2.3 mi. E. from, 6.0 mi. W. of Hillsdale, 0.25 mi. W. of SE. cor. sec. 20, T. 19 N., R. 2 E., 30 ft. N. and 25 ft. W. from crossroads, in fence corner, in concrete post; standard tablet stamped "T T 4 T 1929"-----	701.732
Reference mark, 25 ft. N. and 50 ft. W. from tablet, 65 ft. N. and 75 ft. W. from crossroads, in root on E. side of 12-in. hickory tree; copper nail and washer-----	700.28
Hillsdale, 5.5 mi. W. of, 0.25 mi. E. of NW. cor. sec. 28, T. 19 N., R. 2 E., 27 ft. S. and 10 ft. E. from junction of T-rd. N., 8 ft. E. of fence corner, in root on N. side of 30-in. maple tree; copper nail and washer----	704.55
Hillsdale, 4.8 mi. W. of, near SE. cor. sec. 21, T. 19 N., R. 2 E., 250 ft. W. of crossroads, on E. end of N. head wall of concrete culvert; chiseled square-----	707.00
[Joins into Joslin quadrangle, line 9]	
Hillsdale, 3.7 mi. W. thence 2.1 mi. S. from, 1.3 mi. E. thence 4.4 mi. N. from Osborn, near center of SE $\frac{1}{4}$ sec. 34, T. 19 N., R. 2 E., at NE. end of bridge over Zuma Creek, on NW. side, at foot of and on inside of NE. end of NW. truss, on top of NE. rivet head of expansion plate angular guard at top of circular pier; chiseled cross-----	618.37
Osborn, 1.3 mi. E. thence 3.6 mi. N. from, 0.25 mi. S. of center of sec. 3, T. 18 N., R. 2 E., in NW. angle of crossroads, at concrete steps at entrance to Zuma Methodist Church, on E. end of lower step; chiseled square-----	602.92
Osborn, 1.3 mi. E. thence 3.3 mi. N. from, near quarter corner between secs. 3 and 10, T. 18 N., R. 2 E., 36 ft. S. and 20 ft. W. from crossroads, 36 ft. S. and 45 ft. E. from center of concrete bridge over Zuma Creek, in concrete post; standard tablet stamped "T T Sta 162 F 1929"-----	595.015
Reference mark, 35 ft. W. of crossroads, on S. wing wall of E. abutment of bridge; chiseled square-----	596.64
Osborn, 1.3 mi. E. thence 2.3 mi. N. from, near S $\frac{1}{4}$ cor. sec. 10, T. 18 N., R. 2 E., 20 ft. N. of junction of T-rd. E., on W. side of rd., in root on SE. side of 8-in. wild cherry tree; copper nail and washer-----	581.74
Osborn, 1.3 mi. E. thence 1.3 mi. N. from, near quarter corner between secs. 15 and 22, T. 18 N., R. 2 E., 130 ft. S. of farmhouse on E. side of rd., inside fence, in root on NW. side of 8-in. locust tree; copper nail and washer-----	573.63
Osborn, 1.3 mi. E. thence 0.7 mi. N. from, near center of sec. 22, T. 18 N., R. 2 E., 120 ft. S. of Chicago, Burlington & Quincy R. R. crossing, in SE. angle of junction of private rd. E., in fence corner, in root on W. side of N. fork of double elm tree; copper nail and washer-----	577.88
Osborn, 1.3 mi. E. of, 0.28 mi. S. of N $\frac{1}{4}$ cor. sec. 27, T. 18 N., R. 2 E., on N. bank of Rock River, 20 ft. N. and 20 ft. E. from rd. junction, 5 ft. N. of fence corner, in concrete post; standard tablet stamped "T T 163 F 1929"-----	572.874
Reference mark, 20 ft. S. and 30 ft. W. from rd. junction, on N. bank of river, in root on N. side of 36-in. cottonwood tree; copper nail and washer-----	571.55
Osborn, 0.7 mi. E. of, 0.25 mi. S. of NE. cor. sec. 28, T. 18 N., R. 2 E., 75 ft. W. of N.-S. section line and field rd. N., on S. side of rd., in barn lot, in root on NW. side of 8-in. hedge tree; copper nail and washer--	578.29

# 1516 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Osborn, at W. end of, near center of NW¼ sec. 28, T. 18 N., R. 2 E., 150 ft. SE. of junction of rd. N., 45 ft. SE. of main track of C. B. & Q. R. R., on S. side of street, inside fence, in root on NW. side of three-forked maple tree; copper nail and washer-----	Feet 579.54
Osborn, 0.7 mi. W. of, 0.15 mi. N. of center of sec. 29, T. 18 N., R. 2 E., 45 ft. S. of center of C. B. & Q. R. R. crossing, 10 ft. E. of fence corner, in root on NW. side of 36-in. elm tree; copper nail and washer-----	573.88
Osborn, 1.9 mi. SW. of, 2.7 mi. E. of Barstow, in S½ sec. 30, T. 18 N., R. 2 E., 33 ft. N. and 48 ft. E. from rd. junction, in concrete post; standard tablet stamped "T T 164 F 1929"-----	582.171
Barstow, 2.1 mi. E. of, near NW. cor. sec. 31, T. 18 N., R. 2 E., on S. side of rd., at jog NW., 10 ft. E. of range line, in root on E. side of 15-in. red-haw tree; copper nail and washer-----	574.65
Barstow, 1.0 mi. E. of, 0.12 mi. N. of SE. cor. sec. 26, T. 18 N., R. 1 E., 355 ft. SE. of highway bridge, 80 ft. SW. of section-line crossing and junction of field rd. N., on S. side of rd., in field, in root on N. side of large forked locust tree; copper nail and washer-----	569.13
Barstow, 0.5 mi. E. of, near center of sec. 26, T. 18 N., R. 1 E., at angle W. in rd., 480 ft. E. of junction of T-rd. N., on top, 4.8 ft. from NE. end of 48-in. iron drain pipe under rd.; cross cut on highest rivet head-----	568.77
Barstow, 40 ft. N. and 40 ft. E. from intersection of rd. and C. B. & Q. R. R., 60 ft. S. and 20 ft. E. from center line between tracks in front of sta., in concrete post; standard tablet stamped "TT 165 F 1929"-----	575.831
Reference mark, 115 ft. S. of rd. crossing, S. of sta., on W. side of tracks, on NE. corner of concrete base of track relay pole; chiseled square-----	576.85
Barstow, 0.5 mi. S. of, near cor. secs. 26, 27, 34, and 35, T. 18 N., R. 1 E., 210 ft. W. of right angle in rd., on S. side of rd., on E. side of gate, in root on N. side of 24-in. oak tree; copper nail and washer-----	573.94
Barstow, 0.5 mi. S. thence 0.7 mi. W. from, 0.25 mi. E. of NW. cor. sec. 34, T. 18 N., R. 1 E., on W. end of S. side wall of concrete culvert; chiseled square-----	570.61
Barstow, 0.5 mi. S. thence 1.0 mi. W. from, 0.06 mi. W. of NE. cor. sec. 33, T. 18 N., R. 1 E., 15 ft. W. of center line extended of T-rd. N., on S. side of rd., in fence line, in root on N. side of E. fork of double tree, westernmost of row of willow trees; copper nail and washer-----	573.09
Barstow, 0.5 mi. S. thence 2.0 mi. W. from, near cor. secs. 28, 29, 32, and 33, T. 18 N., R. 1 E., opposite rd. E., on W. edge of concrete pavement, directly in front of S. piling of overhead trestle bridge of Davenport, Rock Island & Northwestern Ry.; chiseled square-----	585.04
Barstow, 0.8 mi. S. and 2.0 mi. W. from, 0.1 mi. N. of intersection of State Highways 3 and 7 in Carbon Cliff, 0.3 mi. S. of N. cor. secs. 32 and 33, T. 18 N., R. 1 E., at S. end of overhead highway bridge over Chicago, Rock Island & Pacific Ry., on SE. corner of E. concrete pier; chiseled square-----	611.40

## 3. From Port Byron northeast along river road to point about 5 miles northeast of Cordova (by S. R. Archer in 1930)

Port Byron, 1.1 mi. N. of, near center of sec. 24, T. 19 N., R. 1 E., 260 ft. N. of entrance to Y. W. C. A. camp, on N. end of E. head wall of culvert under highway; chiseled square-----	594.76
--	--------

Port Byron, 2.0 mi. N. of, near junction of rd. E., at Chicago, Milwaukee, St. Paul & Pacific R. R. crossing; top of E. rail-----	<i>Feet</i> 591.8
Port Byron, 2.2 mi. N. of, 3.7 mi. SW. of C. M. St. P. & P. R. R. sta. in Cordova, near center of sec. 13, T. 19 N., R. 1 E., 0.2 mi. N. of junction of rd. E., on W. wing wall of N. abutment of concrete highway bridge; chiseled square-----	578.85
Cordova, 3.1 mi. SW of, in SW¼ sec. 12, T. 19 N., R. 1 E., 0.35 mi. S. of junction of rd. E., 100 ft. W. of river rd., on bank of Mississippi River, at Y. M. C. A. camp, directly W. and in line with N. end of mess hall, in root on SE. side of 26-in. birch tree; copper nail and washer-----	575.16
Cordova, 2.8 mi. SW. of, in SE angle of junction of rd. E., 3 ft. E. of fence corner, 1 ft. N. of fence, 66 ft. from Mississippi River; Mississippi River Comm. B. M. 155/2 cap on iron pipe----- bolt in tile-----	577.300 573.270
Cordova, 2.8 mi. SW. of, near center of sec. 12, T. 19 N., R. 1 E., 50 ft. S. and 20 ft. E. from junction of rd. E., 1.2 ft. E. of Mississippi River Comm. B. M. 155/2, in concrete post; standard tablet stamped "T T 154 F 1929"-----	576.519
Cordova, 2.2 mi. SW. of, near point where river rd. crosses line between secs. 1 and 12, T. 19 N., R. 1 E., on N. end of E. side wall of concrete highway bridge; chiseled square-----	582.90
Cordova, at SW. corner of town, at W. end of jog in river rd., probably on line between secs. 1 and 36, Tps. 19 and 20 N., R. 1 E., on E. side of rd. S., 15 ft. S. of fence corner, in root on S. side of three-forked wild-cherry tree; copper nail and washer-----	589.13
Cordova, on Main Street, 0.35 mi. W. of C. M. St. P. & P. R. R. sta., on S. side of street, 110 ft. W. of T-street S., on NE. corner of middle step of three concrete steps in front of J. M. Fay & Son furniture store; chiseled square-----	587.03
Cordova, on S. side of Main Street, about 325 ft. W. of C. M. St. P. & P. R. R. crossing, at NW. corner of brick building of State Bank of Cordova, on SW. corner of concrete sidewalk; chiseled square-----	592.59
Cordova, near C. M. St. P. & P. R. R. sta., at brick elevator of William G. Marshall, in N. face, near NW. corner, in third cornerstone from top of foundation; copper bolt leaded horizontally (U. S. C. E. B. M. 51)-----	594.835
Cordova, NE. of R. R. sta., at SW. corner of intersection of Jersey Road and Second Street, 820 ft. from river, on Ashdown property, 3 ft. from NE. corner of lot; Mississippi River Comm. B. M. 156/2 cap on iron pipe----- bolt in tile-----	<sup>40</sup> 604.150 600.120
Cordova, 0.9 mi. NE. of R. R. sta., at line E-W. through center of sec. 30, T. 20 N., R. 2 E., 25 ft. N. and 30 ft. W. from crossroads, 25 ft. N. and 165 ft. W. from intersection of C. M. St. P. & P. R. R., 10 ft. N. of fence corner, in concrete post; standard tablet stamped "T T 155 F 1929"-----	604.046
Reference mark, 80 ft. N. of rd. E., 60 ft. N. of fence corner, on E. side of rd., in root on W. side of 24-in. locust tree; copper nail and washer-----	603.95

<sup>40</sup> The elevation of the top of the pipe as determined in 1930 was 0.038 ft. higher than that shown here. The bolt was not tied to in 1930.

# 1518 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Cordova, 1.4 mi. NE. of, near line between secs. 19 and 30, T. 20 N., R. 2 E., 30 ft. N. and 30 ft. E. from junction of rd. E., 8 ft. N. of fence corner, in root on S. side of 30-in. elm tree; copper nail and washer-----	<i>Feet</i> 606.13
Cordova, 2.4 mi. NE. of, near line between secs. 18 and 19, T. 20 N., R. 2 E., in SE. angle of junction of rd. E., 5 ft. E. of fence corner, in root on W. side of 12-in. elm tree; copper nail and washer-----	604.38
Cordova, 3.4 mi. NE. of, 1,220 ft. W. of E. cor. secs. 7 and 18, T. 20 N., R. 2 E., 30 ft. W. of junction of rd. E., in concrete post; standard tablet stamped "T T 156 F 1929"-----	606.254
Cordova, 3.5 mi. NE. of, 625 ft. N. and 1,220 ft. W. from SE. cor. sec. 7, T. 20 N., R. 2 E., 625 ft. N. of junction of rd. E., 20 ft. E. of center line of N-S. rd., 1 ft. W. of fence along E. side of rd.; Mississippi River Comm. B. M. 157/2	
cap on iron pipe-----	610.638
bolt in tile-----	606.700
Cordova, 4.5 mi. NE. of, near SW. cor. sec. 5, T. 20 N., R. 2 E., 275 ft. N. of section line, 50 ft. N. of N. end of northernmost of three cottages on W. side of rd., on river bank, in root on E. side of 15-in. oak tree; copper nail and washer-----	589.54
[Continued in Goose Lake quadrangle, line 1]	
4. From point about 0.2 mile west of east corner secs. 27 and 34, T. 20 N., R. 2 E., generally north along roads to point 3 miles southwest, thence 1 mile south from Albany (by M. W. Clark in 1930)	
[Continued from Joslin quadrangle, line 13]	
T. 20 N., R. 2 E., 0.25 mi. W. of E $\frac{1}{4}$ cor. sec. 27, 30 ft. S. and 45 ft. E. from junction of E-W. rd., in concrete post; standard tablet stamped "T T 159 F 1929"-----	614.481
Reference mark, 60 ft. NW. of tablet, in root on SE. side of 24-in. maple tree; copper nail and washer-----	614.55
T. 20 N., R. 2 E., near N $\frac{1}{4}$ cor. sec. 27, 110 ft. S. and 30 ft. E. from junction of T-rd. W., in root on E. side of 15-in. ash tree; copper nail and washer-----	619.93
T. 20 N., R. 2 E., near S $\frac{1}{4}$ cor. sec. 15, about 725 ft. N. of junction of T-rd. W., on E. side of rd., at farmhouse of Henry Poel, 10 ft. E. of corner post, in root on NW. side of 12-in. ash tree; copper nail and washer-----	580.33
T. 20 N., R. 2 E., near quarter corner between secs. 10 and 15, 3.0 mi. SW. thence 2.5 mi. S. from Albany, 20 ft. N. and 25 ft. W. from junction of T-rd. W., in SE. corner of schoolyard, in concrete post; standard tablet stamped "T T 158 F 1929"-----	589.600
Reference mark, 140 ft. NW. of tablet, in root on N. side of 24-in. maple tree; copper nail and washer-----	589.39
Albany, 3.0 mi. SW. thence 1.5 mi S. from, near center of NW $\frac{1}{4}$ sec. 10, T. 20 N., R. 2 E., 21 ft. S. and 30 ft. W. from junction of T-rd. N., in root on S. side of wild-cherry tree; copper nail and washer--	582.21
[Connects with line 1 in Goose Lake quadrangle]	

# LENA QUADRANGLE

[Latitude 42°15'–42°30'; longitude 89°45'–90°00']

## JO DAVIESS AND STEPHENSON COUNTIES

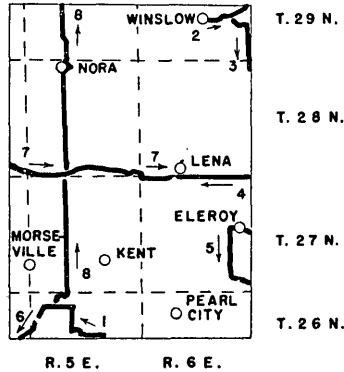


FIGURE 252.—Lines of leveling in Lena quadrangle.

1. From point 1.2 miles northeast of Loran along roads alternately north and west about 4.5 miles, thence southwest 1.1 miles to point 3.1 miles south and 0.1 mile east from Morseville (by J. A. Shumate in 1927)

[Continued from Mount Carroll quadrangle, line 4]

Loran, 1.1 mi. in air line N. of, 3.9 mi. S. and 0.5 mi. W. from Kent, 0.22 mi. S. of N $\frac{1}{4}$ cor. sec. 15, T. 26 N., R. 5 E., on S. end of E. abutment of 20-ft. steel bridge; chiseled square (reported destroyed)-----	Feet 801.01
Kent, 3.8 mi. S. and 1.0 mi. W. from, 0.15 mi. S. of N. cor. secs. 15 and 16, T. 26 N., R. 5 E., at Jo Daviess-Stephenson county line, in NW. angle of junction of T-rd. W., in root on E. side of 12-in. cherry tree; copper nail and washer-----	958.51
Kent, 3.7 mi. S. and 1.5 mi. W. from, 3.5 mi. S. and 2.5 mi. E. from Morseville, near N $\frac{1}{4}$ cor. sec. 16, T. 26 N., R. 5 E., 24 ft. S. and 30 ft. E. from crossroads, in concrete post; standard tablet stamped "14 JAS 1927"-----	1,009.148
Reference mark, in NW. angle of crossroads, in root on NE. side of 10-in. walnut tree; copper nail and washer-----	1,003.75
Kent, 2.5 mi. S. and 1.5 mi. W. from, 2.3 mi. S. and 2.5 mi. E. from Morseville, 0.25 mi. N. of S $\frac{1}{4}$ cor. sec. 4, T. 26 N., R. 5 E., 52 ft. N. of junction of E.-W. rd., in root on W. side of 10-in. twin-oak tree; copper nail and washer-----	1,025.23
Morseville, 2.3 mi. S. and 1.5 mi. E. from, at Willow School, 0.25 mi. N. of S $\frac{1}{4}$ cor. sec. 5, T. 26 N., R. 5 E., 14 ft. N. and 40 ft. W. from junction of T-rd. S., at iron pipe culvert under E.-W. rd., on top near center of NE. concrete head wall; chiseled square (recovered in 1935)-----	849.78

# 1520 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Morseville, 3.1 mi. S. and 0.1 mi. E. from, in NW¼ sec. 7, T. 26 N., R. 5 E., on S. side of Savanna-Freeport rd., 150 ft. NE. of junction of Union Church rd., 9.6 ft. N.16°E. from 22-in. wild-cherry tree, 366 ft. N. 38°30' W. from NE. corner of iron bridge over Muddy Plum River; standard iron post with bronze cap stamped "Prim Trav Sta No 21 1906" (recovered in 1935)-----	<i>Feet</i> 745.323
Reference mark, 12 ft. S. 15° W. from tablet, in root on W. side of 30-in. wild-cherry tree; copper nail and washer (recovered in 1935)-----	744.82
2. From Winslow along roads alternately east and northeast 1.9 miles (by W. M. Hay and W. J. Drath in 1934)	
U. S. C. & G. S. B. M. designated "B 7"-----	780.002
Winslow, at E. end of steel bridge over Pecatonica River, on SW. corner of S. end of E. stone abutment, 1 ft. S. of E. end of S. steel truss; chiseled square-----	779.03
Winslow, 1.1 mi. E. of, near E¼ cor. sec. 23, T. 29 N., R. 6 E., on N. side of Pecatonica River, near mouth of Honey Creek, at E. approach to 45-ft. bridge with tubular piers over creek, on NE. wing wall, 2.5 ft. from NE. corner; chiseled square-----	770.93
Winslow, 1.3 mi. E. of, in NW¼ sec. 24, T. 29 N., R. 6 E., 500 ft. E. of junction of rd. S., 4 ft. from E. end of S. head wall of concrete culvert; chiseled square-----	771.46
Winslow, 1.8 mi. NE. of, near center of NE¼ sec. 24, T. 29 N., R. 6 E., on E. corner of NE. end of SE. head wall of concrete culvert; chiseled square-----	797.01
[Continued in South Wayne quadrangle, line 2]	
3. From road junction 1.3 miles east of Winslow along roads south-east and east 1.3 miles, thence south along range-line road to point 1.8 miles northwest of McConnell (by W. M. Hay and W. J. Drath in 1934; leveled twice along range-line road)	
Winslow, 1.3 mi. E. of, in NW¼ sec. 24, T. 29 N., R. 6 E., 350 ft. S. of junction of rd. S., 6 ft. N. of S. end of bridge over creek, on W. side of bridge, level with floor, in W. side of 18-in. elm tree; spike-----	771.75
Winslow, 1.3 mi. E. thence 0.6 mi. S. from, in SW¼ sec. 24, T. 29 N., R. 6 E., 0.13 mi. N. of junction of rd. E., on SW. corner of SW. wing wall of bridge over creek; chiseled square-----	773.08
Winslow, 0.4 mi. S. and 2.0 mi. E. from, near NE. cor. sec. 25, T. 29 N., R. 6 E., at jog in E.-W. rd. and junction of range-line rd. S., 25 ft. S. and 27 ft. W. from junction of rd. W., 130 ft. S. and 27 ft. W. from junction of rd. E., 2 ft. N. and 4 ft. W. from fence corner, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "2 1 1934"-----	821.540
Winslow, 0.7 mi. S. and 2.0 mi. E. from, 0.2 mi. N. of quarter corner between secs. 25 and 30, T. 29 N., Rs. 6 and 7 E., on E. iron railing of bridge over creek, 1.7 ft. from S. end, 3 ft. above floor level; chiseled square-----	789.87
Winslow, 0.9 mi. S. and 2.0 mi. E. from, near W¼ cor. sec. 30, T. 29 N., R. 7 E., on E. side of rd., in root of elm tree; spike-----	831.57
Winslow, 1.3 mi. S. and 2.0 mi. E. from, 700 ft. N. of S. cor. secs. 25 and 30, T. 29 N., Rs. 6 and 7 E., on N. end of E. hand railing of bridge; chiseled square-----	799.52
Winslow, 1.9 mi. S. and 2.0 mi. E. from, near E¼ cor. sec. 36, T. 29 N., R. 6 E., 30 ft. S. of crossroads, at SW. corner of bridge, 3 ft. above floor level; top of 5-in. vertical channel bar-----	836.30

Winslow, 2.4 mi. S. and 2.0 mi. E. from, 2.2 mi. NW. of McConnell, near SW. cor. sec. 31, T. 29 N., R. 7 E., 120 ft. N. and 25 ft. E. from junction of T-rd. E., 1 ft. W. of fence line, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "2 2 1934"-----

Feet  
863.100

[Continued in Freeport quadrangle, line 6]

4. From point 2.3 miles west of Damascus west 4 miles along township-line road to Lena (by F. C. Pinch in 1934)

[Continued from Freeport quadrangle, line 7]

Damascus, 2.5 mi. W. of, 3.8 mi. E. of intersection of township-line rd. and State Highway 73 at Lena, 0.22 mi. W. of NE. cor. sec. 1, T. 27 N., R. 6 E., 0.2 mi. W. of crossroads, on S. wing wall of E. abutment of steel bridge, near E. end of wall; chiseled square----- 804.61  
Lena, 3.2 mi. E. of, 0.2 mi. E. of NW. cor. sec. 1, T. 27 N., R. 6 E., 30 ft. S. and 140 ft. W. from crossroads, 100 ft. NW of NW. corner of farmhouse, in root of 24-in. maple tree; spike and washer----- 899.64  
Lena, 2.5 mi. E. of, 350 ft. W. of N $\frac{1}{4}$  cor. sec. 2, T. 27 N., R. 6 E., 30 ft. S. of rd., in root of 15-in. evergreen tree; spike and washer----- 921.08  
Lena, 2.3 mi. E. of, 0.25 mi. W. of N $\frac{1}{4}$  cor. sec. 2, T. 27 N., R. 6 E., 27 ft. S. of rd., at junction of E.-W. fence and fence S.; standard iron post with bronze cap ----- 902.645  
Lena, 1.5 mi. E. of, near S $\frac{1}{4}$  cor. sec. 34, T. 28 N., R. 6 E., 170 ft. W. of farmhouse on N. side of rd., 25 ft. N. of rd., in root of 30-in. oak tree; spike and washer (reported destroyed)----- 927.40  
Lena, 0.9 mi. E. of, 350 ft. W. of NE. cor. sec. 4, T. 27 N., R. 6 E., 350 ft. W. of crossroads, on S. head wall of concrete culvert; chiseled square (reported destroyed)----- 914.25  
Lena, in S. part of, 0.25 mi. E. of SW. cor. sec. 33, T. 28 N., R. 6 E., 0.25 mi. E. of State Highway 73, 30 ft. N. and 25 ft. W. from junction of T-rd. N., in root of 24-in. oak tree; spike and washer----- 942.26  
Lena, in SW. part of, near NE. cor. sec. 5, T. 27 N., R. 6 E., 30 ft. S. and 100 ft. W. from intersection of State Highway 73, in concrete post; U. S. C. & G. S. and State Survey standard disk (recovered in 1935)----- 941.643

5. From point 0.5 mile east of Eleroy west along Illinois Central Railroad 1 mile, thence south and southeast along roads to point 1.5 miles north and 3.9 miles east from Pearl City (by W. J. Drath in 1934)

[Continued from Freeport quadrangle, line 8]

Eleroy, 0.4 mi. W. of, about 600 ft. E. of W $\frac{1}{4}$  cor. sec. 13, T. 27 N., R. 6 E., 100 ft. SE. of rd. crossing, at S. right-of-way fence line, 33 ft. E. of center line extended of U. S. Highway 20, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "2 7 1934"----- 912.125  
Eleroy, 0.5 mi. W. thence 0.8 mi. S. from, 0.25 mi. N. of E $\frac{1}{4}$  cor. sec. 23, T. 27 N., R. 6 E., on S. end of W. head wall of concrete culvert; chiseled square----- 980.13  
Eleroy, 0.5 mi. W. thence 1.0 mi. S. from, 200 ft. N. of W $\frac{1}{4}$  cor. sec. 24, T. 27 N., R. 6 E., on E. side of rd., in root of 12-in. oak tree; nail (reported destroyed)----- 1,004.76  
Eleroy, 0.5 mi. W. thence 1.5 mi. S. from, near SE. cor. sec. 23, T. 27 N., R. 6 E., in NW. angle of junction of T-rd. W., on NE. end of head wall of concrete culvert; chiseled square (reported destroyed)----- 932.90

# 1522 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Eleroy, 0.5 mi. W., thence 2.0 mi. S. from, near W $\frac{1}{4}$ cor. sec. 25, T. 27 N., R. 6 E., on N. end of E. head wall of concrete culvert; chiseled square (reported destroyed)-----	<i>Feet</i> 928.43
Eleroy, 0.5 mi. W., thence 2.3 mi. S. from, 0.3 mi. S. of W $\frac{1}{4}$ cor. sec. 25, T. 27 N., R. 6 E., on N. end of E. head wall of concrete culvert; chiseled square (reported destroyed)-----	918.24
Eleroy, 0.5 mi. W., thence 2.5 mi. S. from, about 300 ft. N. of SE. cor. sec. 26, T. 27 N., R. 6 E., 300 ft. N. of junction of T-rd. E., on N. end of W. head wall of concrete culvert; chiseled square (reported destroyed)-----	907.90
Eleroy, 0.5 mi. W., thence 2.8 mi. S. from, 2.0 mi. N. and 3.0 mi. E. from Pearl City, 0.3 mi. S. of NW. cor. sec. 36, T. 27 N., R. 6 E., 120 ft. N. and 25 ft. E. from crossroads, at fence, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "2 8 1934"-----	926.945
Pearl City, 1.9 mi. N. and 3.3 mi. E. from, in NW $\frac{1}{4}$ sec. 36, T. 27 N., R. 6 E., 0.3 mi. SE. of crossroads, on S. wing wall of E. abutment of bridge over creek; chiseled square-----	870.65

[Continued in Freeport quadrangle, line 9]

6. From point 3.1 miles south and 0.1 mile east from Morseville southwest along roads 1.3 miles (by S. R. Archer in 1935)

Morseville, 3.7 mi. S. and 0.6 mi. W. from, in NW $\frac{1}{4}$ sec. 13, T. 26 N., R. 4 E., at Fitzsimmons School, 35 ft. W. of junction of rd. SE., on W. end of N. head wall of concrete culvert; chiseled square-----	738.25
--	--------

[Continued in Savanna quadrangle, line 8]

7. From point 2 miles north and 0.4 mile east from Stockton along roads generally east to Lena (by S. R. Archer in 1935)

[Continued from Elizabeth quadrangle, line 6]

Stockton, 1.7 mi. N. and 1.3 mi. E. from, 0.3 mi. S. of W $\frac{1}{4}$ cor. sec. 31, T. 28 N., R. 5 E., in NE. angle of intersection of State Highway 78, on N. head wall of concrete culvert under rd. E.; chiseled square-----	924.09
Stockton, 2.0 mi. N. and 1.3 mi. E. from, near E $\frac{1}{4}$ cor. sec. 36, T. 28 N., R. 4 E., at Simmons School (Rush Township School No. 82), on W. side of State Highway 78, on S. side of gate to walk to schoolhouse, in front of schoolhouse, on E. side of fence; standard iron post with bronze cap stamped "Prim Trav Sta No 22 1906 916"-----	916.481
Stockton, 1.7 mi. N. and 2.3 mi. E. from, near SE. cor. sec. 31, T. 28 N., R. 5 E., 150 ft. W. of T-rd. N., on top of E. end of concrete wheel guard along N. side of steel bridge; chiseled square-----	900.91
Stockton, 1.7 mi. N. and 2.4 mi. E. from, in SW $\frac{1}{4}$ sec. 32, T. 28 N., R. 5 E., 0.13 mi. E. of junction of T-rd. N., on top of E. end of concrete wheel guard along S. side of steel bridge; chiseled square-----	898.07
Stockton, 1.7 mi. N. and 3.4 mi. E. from, 6.0 mi. W. of intersection of township-line rd. and State Highway 73 in Lena, 5.9 mi. S. of Nora, 0.14 mi. N. of SW. cor. sec. 33, T. 28 N., R. 5 E., 100 ft. E. of crossroads, on N. side of rd.; standard iron post with bronze cap stamped "936"-----	936.544
Reference mark, 45 ft. S. of crossroads, on E. side of rd., 20 ft. S. of fence corner, in root on NW. side of 10-in. wild-cherry tree; copper nail and washer-----	932.85

Lena, 5.0 mi. W. of, 0.1 mi. S. of E $\frac{1}{4}$ cor. sec. 33, T. 28 N., R. 5 E., 300 ft. W. of Jo Daviess-Stephenson county line and rd. N., on N. side of rd., in field, in root on SW. side of 40-in. oak tree; copper nail and washer-----	Feet 947.95
Lena, 4.0 mi. W. of, 0.15 mi. S. of W $\frac{1}{4}$ cor. sec. 35, T. 28 N., R. 5 E., 28 ft. S. and 40 ft. E. from junction of rd. N.; standard iron post with bronze cap stamped "942"-----	942.066
Lena, 3.0 mi. W. of, at Central School, 0.2 mi. S. of W $\frac{1}{4}$ cor. sec. 36, T. 28 N., R. 5 E., 95 ft. E. of crossroads, on S. side of rd., in front of schoolhouse, on NE. corner of concrete porch; chiseled square-----	934.67
Lena, 1.8 mi. W. of, near E. cor. secs. 1 and 36, Tps. 27 and 28 N., R. 5 E., on W. side of rd., opposite center line of T-rd. E.; standard iron post with bronze cap stamped "Prim Trav Sta No 25 1911 939"-----	939.422
Lena, 1.0 mi. W. of, near NE cor. sec. 6, T. 27 N., R. 6 E., in SW. corner of junction of rd. S., on S. parapet of E. abutment of concrete bridge; chiseled square-----	875.71
8. From road junction 2.3 miles south and 1.5 miles east from Morseville along roads northeast 1.1 miles, thence north to point 0.2 mile north and 2 miles east from Warren (by S. R. Archer in 1935)	
Morseville, 1.6 mi. S. and 1.9 mi. E. from, in NE $\frac{1}{4}$ sec. 5, T. 26 N., R. 5 E., at angle in rd. from SE. to NE., 750 ft. SE. of rd. junction, 550 ft. SE. of bridge over Muddy Plum River, on S. side of rd., on W. side of gate to farmhouse, at fence corner, in concrete post; standard tablet stamped "815"-----	815.110
Reference mark, 190 ft. N. of tablet, on bridge end of SW. wing wall of concrete culvert; chiseled square-----	817.98
Morseville, 2.0 mi. E. thence 0.7 mi. S. from, 0.1 mi. S. of NW. cor. sec. 33, T. 27 N., R. 5 E., about 500 ft. S. of crossroads, on N. end of E. head wall of concrete culvert; chiseled square-----	874.43
Morseville, 2.0 mi. E. of, 325 ft. N. of W $\frac{1}{4}$ cor. sec. 28, T. 27 N., R. 5 E., 0.06 mi. N. of junction of T-rd. W., on S. end of E. head wall of concrete culvert; chiseled square-----	944.25
Morseville, 2.0 mi. E. thence 1.5 mi. N. from, 1.5 mi. S. and 3.3 mi. E. from Stockton, near SW. cor. sec. 16, T. 27 N., R. 5 E., 35 ft. N. and 27 ft. E. from crossroads, 8 ft. N. of SW. corner of yard of residence, outside of yard fence, in concrete post; standard tablet stamped "947"-----	947.502
Reference mark, 90 ft. W. of crossroads, on S. side of rd. W., 60 ft. W. of fence corner, in root on NE. side of 30-in. oak tree; copper nail and washer-----	957.18
Stockton, 0.5 mi. S. and 3.3 mi. E. from, near SE. cor. sec. 8, T. 27 N., R. 5 E., in NW. angle of crossroads, near angular corner at S. end of W. head wall of concrete culvert under rd. N.; chiseled square-----	939.39
Stockton, 0.5 mi. N. and 3.3 mi. E. from, 7.1 mi. S. of Nora, at Tiger-whip School, near SW. cor. sec. 4, T. 27 N., R. 5 E., in NE. angle of crossroads, on N. end of E. head wall of concrete culvert under rd. N.; chiseled square-----	927.64
Nora, 5.0 mi. S. of, near NE. cor. sec. 32, T. 28 N., R. 5 E., 60 ft. S. of crossroads, on W. side of rd., at fence line, in root on E. side of small forked boxelder tree; copper nail and washer-----	937.33
Nora, 4.0 mi. S. of, near NE. cor. sec. 29, T. 28 N., R. 5 E., in SW. angle of crossroads, in NE. corner of yard of dwelling, in root on SE. side of 36-in. maple tree; copper nail and washer-----	950.21

# 1524 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Nora, 3.0 mi. S. of, 3.0 mi. W. of Waddams Grove, near SW. cor. sec. 16, T. 28 N., R. 5 E., 25 ft. N. and 25 ft. E. from crossroads, inside fence, at SW. corner of churchyard, in concrete post; standard tablet stamped "968"-----	<i>Feet</i> 967.710
Reference mark, 15 ft. NE. of tablet, in root on W. side of 30-in. maple tree; copper nail and washer-----	968.58
Nora, 1.8 mi. S. of, 0.22 mi. N. of SE. cor. sec. 8, T. 28 N., R. 5 E., 0.2 mi. N. of junction of T-rd. E., 165 ft. S. of culvert, on W. side of rd., at fence line, in root on E. side of 36-in. maple tree; copper nail and washer-----	949.24
Nora, 1.1 mi. S. of, near NE. cor. sec. 8, T. 28 N., R. 5 E., 280 ft. S. of crossroads, on S. end of W. head wall of concrete culvert; chiseled square-----	970.06
Nora, in SE. part of, near W $\frac{1}{4}$ cor. sec. 4, T. 28 N., R. 5 E., in N. angle of crossroads, at S. corner of yard of residence, in root on SE. side of 36-in. maple tree; copper nail and washer-----	997.36
Nora, 600 ft. NE. of intersection of Illinois Central R. R. and street just W. of sta., 75 ft. NW. and 25 ft. NE. from street intersection, in N. corner of sidewalk along NE. side of street and walk leading to main entrance to G. A. R. Hall, in concrete post; standard tablet stamped "1009"-----	1,009.170
Reference mark, 40 ft. SE. of tablet, in S. corner of yard of G. A. R. Hall, in N. angle of street intersection, in root on SE. side of 36-in. maple tree; copper nail and washer-----	1,008.26
Nora, 2.2 mi. N. of, 0.5 mi. S. and 2.0 mi. E. from Warren, near SW. cor. sec. 21, T. 29 N., R. 5 E., in NE. angle of crossroads, in SW. corner of yard of residence, at corner of row of trees N. and E., in root on W. side of 10-in. pine tree; copper nail and washer-----	982.81
Warren, 0.2 mi. N. and 2.0 mi. E. from, 0.6 mi. S. of Illinois-Wisconsin State line, 0.15 mi. N. of W $\frac{1}{4}$ cor. sec. 21, T. 29 N., R. 5 E., on N. end of E. head wall of concrete bridge; chiseled square-----	898.69

[Connects with line 1 in South Wayne quadrangle]

# McHENRY QUADRANGLE

[Latitude 42°15'–42°30'; longitude 88°15'–88°30']

## McHENRY COUNTY

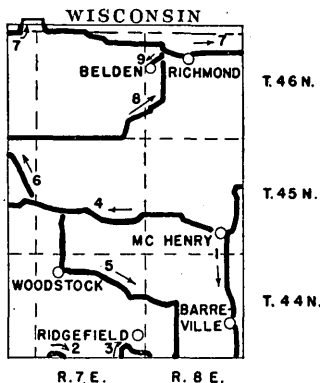


FIGURE 253.—Lines of leveling in McHenry quadrangle.

1. From point near Johnsburg west and south along roads by way of McHenry and Barreville to point 0.6 mile north of Silver Lake (by S. L. Parker in 1919; releveled by J. F. Barksdale in 1923)

[Continued from Grays Lake quadrangle, line 1]

Johnsburg, 0.8 mi. W. of, 2.5 mi. NE. of McHenry, near W $\frac{1}{4}$ cor. sec. 13, T. 45 N., R. 8 E., 100 ft. E. of junction of rd. SW., on top of NW. concrete abutment of small iron bridge; chiseled square-----	Feet 749.19
McHenry, 1.3 mi. NE. of, 0.2 mi. N. of SE. cor. sec. 23, T. 45 N., R. 8 E., on W. side of rd., in fence line, in root on E. side of oak tree; copper nail and washer-----	780.67
McHenry, at steel bridge over Fox River, in N. end of W. concrete abutment, 12 ft. N. of center line of street, 1.5 ft. lower than surface of street; standard tablet stamped "1919 746" (recovered by U. S. C. & G. S. in 1934)-----	746.691
McHenry, at NW. corner of intersection of Main Street and Elgin rd., on NE. corner of concrete sidewalk; chiseled square-----	756.42
McHenry, 1.2 mi. S. of, 0.25 mi. N. of center of sec. 2, T. 44 N., R. 8 E., 25 ft. SW. of junction of private rd. W., in root on S. side of 14-in. maple tree; copper nail and washer-----	821.74
McHenry, 2.2 mi. S. of, 0.25 mi. S. of N $\frac{1}{4}$ cor. sec. 11, T. 44 N., R. 8 E., on E. side of rd., 2 ft. E. of fence, 30 ft. S. of lane E. to barn, in root on W. side of 18-in. maple tree; copper nail and washer-----	811.97
McHenry, 3.3 mi. S. of, 1.4 mi. N. of Barreville, 0.2 mi. NE. of center of sec. 14, T. 44 N., R. 8 E., in NE. angle of junction of rd. E., 5 ft. N. of fence corner, 1 ft. W. of fence; standard iron post with bronze cap stamped "1919 809"-----	808.777

# 1526 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Barreville, 0.6 mi. N. of, 0.15 mi. W. of NE. cor. sec. 23, T. 44 N., R. 8 E., in SE. angle of junction of T-rd. E., 50 ft. S. of fence corner, 1 ft. E. of fence, in root on W. side of 48-in. cottonwood tree; copper nail and washer-----	<i>Feet</i> 754.50
Barreville, 0.3 mi. SE. of, 0.25 mi. N. of SW. cor. sec. 24, T. 44 N., R. 8 E., 300 ft. S. of junction of rd. S., on E. side of N.-S. rd., 2 ft. E. of fence, in root on W. side of lone 12-in. hickory tree; copper nail and washer-----	769.09
Barreville, 0.3 mi. SE. thence 0.9 mi. S. from, 1.3 mi. N. of Silver Lake, 0.25 mi. N. of SE. cor. sec. 26, T. 44 N., R. 8 E., in NW. angle of crossroads, in root on E. side of 12-in. maple tree; copper nail and washer-----	846.79

[Continued in Elgin quadrangle, line 2]

2. From point 4.5 miles south and 0.4 mile west from Woodstock generally east 0.7 mile along road (by R. G. Stevenson in 1923)

[A jog from Elgin quadrangle, line 9]

Woodstock, 4.5 mi. S. of, 5.6 mi. N. and 0.9 mi. W. from Huntley, near center of NW¼ sec. 32, T. 44 N., R. 7 E., 30 ft. SE. of crossroads, inside fence, in concrete post; standard tablet stamped "5 RGS 1923"-----	904.698
Reference mark, 50 ft. NW. of crossroads, inside fence, in root of 18-in. oak tree; copper nail and washer-----	901.69

[Continued in Elgin quadrangle, line 9]

3. From point 1.2 miles south and 1 mile west from Ridgefield generally north to U. S. Highway 14, thence southeast to point 1.8 miles northwest of Crystal Lake (by R. G. Stevenson in 1923)

[A jog from Elgin quadrangle, line 9]

Ridgefield, 1.3 mi. SE. of, 2.0 mi. NW. of Crystal Lake, near center of NW¼ sec. 31, T. 44 N., R. 8 E., 30 ft. NW. of rd. junction, in root of 15-in. pine tree; copper nail and washer-----	915.97
--	--------

[Continued in Elgin quadrangle, line 9]

4. From McHenry northwest along road to point 0.5 mile east of Hartland (by H. P. Jones in 1923; leveled twice)

McHenry, in W. part of, 580 ft. W. of crossing of Chicago & North Western Ry., on S. side of street, in root on N. side of 12-in. boxelder tree; copper nail and washer-----	763.14
McHenry, 2.1 mi. NW. of, 0.2 mi. N. of center of sec. 28, T. 45 N., R. 8 E., at junction of rd. N.; standard iron post with bronze cap stamped "Prim Trav Sta No 5 W 1921"-----	774.780
Reference mark, 30 ft. N. and 20 ft. W. from junction of rd. N., on concrete culvert; chiseled square-----	775.41
McHenry, 2.7 mi. NW. of, 0.15 mi. W. of SE. cor. sec. 20, T. 45 N., R. 8 E., on N. side of rd., in root on S. side of 20-in. cherry tree; copper nail and washer-----	893.16
McHenry, 4.1 mi. NW. of, near N¼ cor. sec. 30, T. 45 N., R. 8 E., 27 ft. S. and 15 ft. E. from junction of T-rd. S., in root on W side of 20-in. oak tree; copper nail and washer-----	877.43

<sup>4</sup> In 1930 this bench mark was moved 30 ft. west of its original position and reset at an elevation 0.466 ft. higher than that originally determined. The figures given represent the new elevation.

McHenry, 5.4 mi. NW. of, near center of NW $\frac{1}{4}$ sec. 25, T. 45 N., R. 7 E., 18 ft. S. and 34 ft. E. from crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 6 W 1921"-----	<i>Feet</i> 848.903
Reference mark, 20 ft. S. and 105 ft. E. from crossroads, in root on N. side of 30-in. maple tree; copper nail and washer-----	846.60
McHenry, 6.7 mi. NW. of, 2.5 mi. S. of Greenwood, 0.15 mi. S. of NW. cor. sec. 26, T. 45 N., R. 7 E., 38 ft. N. and 25 ft. E. from crossroads, in root on S. side of 24-in. locust tree; copper nail and washer----	914.44
McHenry, 7.8 mi. NW. of, 4.8 mi. E. of Hartland, 0.2 mi. N. of SE. cor. sec. 21, T. 45 N., R. 7 E., 30 ft. N. and 110 ft. W. from crossroads, in root on S. side of 18-in. maple tree; copper nail and washer-----	769.09
Hartland, 4.1 mi. E. of, near center of SW $\frac{1}{4}$ sec. 21, T. 45 N., R. 7 E., 30 ft. N. and 150 ft. E. from crossroads, in root on E. side of 24-in. basswood tree; copper nail and washer-----	895.76
Hartland, 3.3 mi. E. of, 3.2 mi. N. of Woodstock, 0.2 mi. S. of center of sec. 20, T. 45 N., R. 7 E., 15 ft. N. of junction of T-rd. S., in concrete post; standard tablet stamped "Prim Trav Sta No 7 W 1921 1 HPJ 1923" <sup>48</sup> -----	879.173
Reference mark, 40 ft. N. and 230 ft. W. from rd. junction, in root of 12-in. boxelder tree; copper nail and washer-----	881.52
Hartland, 2.5 mi. E. of, in SE $\frac{1}{4}$ sec. 19, T. 45 N., R. 7 E., 20 ft. S. and 170 ft. W. from junction of rd. SW., in root on N. side of 15-in. cherry tree; copper nail and washer-----	884.32
Hartland, 1.7 mi. E. of, 0.1 mi. N. of E $\frac{1}{4}$ cor. sec. 24, T. 45 N., R. 6 E., 90 ft. E. of junction of rd. NW., on top of N. coping of concrete bridge; chiseled square-----	866.28
Hartland, 1.0 mi. E. of, 0.2 mi. E. of W $\frac{1}{4}$ cor. sec. 24, T. 45 N., R. 6 E., at angle in rd. from SW. to W., on SE. side of curve, in root on E. side of 22-in. cherry tree; copper nail and washer-----	933.88
[Continued in Harvard quadrangle, line 3]	
5. From road junction 3.2 miles north of Woodstock along roads alternately south and east to point near Crystal Lake (by H. P. Jones in 1923)	
Woodstock, 1.7 mi. N. of, near center of sec. 32, T. 45 N., R. 7 E., on top of W. concrete head wall of culvert; chiseled square-----	888.38
Woodstock, at NW. corner of intersection of North Street and Seminary Avenue, on concrete curb; chiseled square-----	898.02
Woodstock, in NE. corner of yard of McHenry County courthouse, inside iron fence, in concrete post; standard tablet stamped "4 HPJ 1922"-----	942.185
Reference mark, at NE. corner of courthouse, on top of concrete curb; chiseled square-----	940.92
Woodstock, 1.1 mi. E. of, 0.18 mi. W. of N $\frac{1}{4}$ cor. sec. 9, T. 44 N., R. 7 E., 18 ft. S. and 400 ft. E. from junction of T-rd. S., on head wall of concrete culvert; chiseled square-----	894.78
Woodstock, 1.9 mi. E. of, 0.1 mi. E. of SW. cor. sec. 3, T. 44 N., R. 7 E., 18 ft. N. and 265 ft. E. from junction of rd. N., in root on S. side of 18-in. oak tree; copper nail and washer-----	945.64

<sup>48</sup> In 1932 this bench mark was moved 60 ft. west of its original position and reset at the same elevation.

# 1528 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Woodstock, 2.9 mi. SE. of, near quarter corner between secs. 10 and 11, T. 44 N., R. 7 E., on S. head wall of concrete culvert; chiseled square-----	<i>Feet</i> 929.38
Woodstock, 4.0 mi. SE. of, 2.2 mi. NW. of Ridgefield, near E. cor. secs. 11 and 14, T. 44 N., R. 7 E., 20 ft. N. and 20 ft. W. from junction of rd. E., in concrete post; standard tablet stamped "5 HPJ 1923"-----	942.990
Reference mark, 25 ft. N. and 20 ft. W. from rd. junction, in root on N. side of 30-in. oak tree; copper nail and washer-----	942.55
Ridgefield, 1.9 mi. N. and 0.4 mi. E. from, in NW¼ sec. 18, T. 44 N., R. 8 E., 24 ft. N. and 48 ft. E. from junction of rd. N., in root on S. side of 30-in. oak tree; copper nail and washer-----	854.92
Ridgefield, 1.6 mi. N. and 0.8 mi. E. from, near center of sec. 18, T. 44 N., R. 8 E., on S. head wall of concrete culvert; chiseled square-----	820.83
Ridgefield, 1.6 mi. N. and 2.1 mi. E. from, 3.3 mi. N. of Crystal Lake, 0.25 mi. E. of center of sec. 17, T. 44 N., R. 8 E., 22 ft. N. and 13 ft. W. from junction of rd. S., in root on E. side of 18-in. oak tree; copper nail and washer-----	883.09
Crystal Lake, 2.8 mi. N. of, 0.25 mi. W. of SE. cor. sec. 17, T. 44 N., R. 8 E., 38 ft. N. and 25 ft. E. from junction of T-rd. E., in concrete post; standard tablet stamped "6 HPJ 1923"-----	877.722
Reference mark, 50 ft. N. and 22 ft. E. from rd. junction, in root on W. side of 36-in. oak tree; copper nail and washer-----	878.48
Crystal Lake, 2.3 mi. N. of, 0.25 mi. E. of center of sec. 20, T. 44 N., R. 8 E., 160 ft. N. and 35 ft. W. from junction of rd. SE., in root on E. side of 24-in. maple tree; copper nail and washer-----	884.21
Crystal Lake, 1.3 mi. N. of, 0.25 mi. E. of center of sec. 29, T. 44 N., R. 8 E., 35 ft. S. and 35 ft. W. from crossroads, in root on W. side of double-trunked oak tree; copper nail and washer-----	914.23

[Connects with line 9 in Elgin quadrangle]

6. From road junction 1.7 miles east of Hartland northwest along road to point 3.9 miles south and 0.9 mile east from Alden (by H. P. Jones in 1923)

Hartland, 1.6 mi. N. and 1.2 mi. E. from, in SW¼ sec. 12, T. 45 N., R. 6 E., on NE. side of rd., in farmyard, in root on W. side of 30-in. maple tree; copper nail and washer-----	977.44
Hartland, 2.5 mi. N. and 0.5 mi. E. from, 4.0 mi. S. and 1.0 mi. E. from Alden, 0.17 mi. E. of S¼ cor. sec. 2, T. 45 N., R. 6 E., 10 ft. N. and 48 ft. E. from junction of rd. W., in root on S. side of 10-in. walnut tree; copper nail and washer-----	973.80

[Continued in Harvard quadrangle, line 4]

7. From point 1.6 miles north and 3.5 miles west from Hebron east along Illinois-Wisconsin State line and southeast along roads to point 2.9 miles east of Richmond (by H. P. Jones in 1923; last 5 miles leveled twice)

[Continued from Harvard quadrangle, line 4]

Hebron, 1.6 mi. N. and 2.7 mi. W. from, 0.25 mi. SE. of NW. cor. fractional sec. 1, T. 46 N., R. 6 E., 25 ft. N. and 95 ft. W. from crossroads, inside fence, in root on S. side of 12-in. hickory tree; copper nail and washer-----	993.68
--	--------

[Jogs into Wisconsin]

Hebron, 1.6 mi. N. and 1.5 mi. W. from, near SW. cor. sec. 35, T. 1 N., R. 17 E. (Wis.), 285 ft. N. of Illinois-Wisconsin State line, 310 ft. N. and 53 ft. E. from junction of T-rd. E., in root on W. side of 26-in. oak tree; copper nail and washer <sup>49</sup> -----	<b>Feet</b> <b>971.93</b>
Hebron, 1.6 mi. N. and 0.6 mi. W. from, near N¼ cor. fractional sec. 5, T. 46 N., R. 7 E., 20 ft. S. of center line of rd. along Illinois-Wisconsin boundary, 310 ft. W. of junction of T-rd. N., in root on E. side of 10-in. hickory tree; copper nail and washer-----	<b>913.90</b>
Hebron, 1.6 mi. N. of, 0.15 mi. E. of NW. cor. fractional sec. 4, T. 46 N., R. 7 E., about 700 ft. E. of offset crossroads, 26 ft. S. of center line of rd. along Illinois-Wisconsin boundary, in root on N. side of 20-in. maple tree; copper nail and washer-----	<b>897.58</b>
Hebron, 1.6 mi. N. and 0.7 mi. E. from, 0.25 mi. W. of NE. cor. fractional sec. 4, T. 46 N., R. 7 E., 24 ft. S. of fence, along Illinois-Wisconsin boundary, 25 ft. NE. of angle in rd.; standard iron post with bronze cap stamped "Prim Trav Sta No 3 W 1921" <sup>50</sup> -----	<b>863.198</b>
Reference mark, about 700 ft. SE. of iron post, on SW. side of rd., on head wall of concrete culvert; chiseled square-----	<b>871.35</b>
Hebron, 1.0 mi. N. and 2.0 mi. E. from, near SW. cor. fractional sec. 2, T. 46 N., R. 7 E., 23 ft. N. and 140 ft. E. from junction of rd. E., in root on SE. side of 24-in. cottonwood tree; copper nail and washer-----	<b>906.51</b>
Hebron, 1.0 mi. N. and 2.6 mi. E. from, at Burgett School, 0.1 mi. E. of S¼ cor. fractional sec. 2, T. 46 N., R. 7 E., in schoolyard, in root on S. side of 20-in. maple tree; copper nail and washer-----	<b>896.46</b>
Hebron, 1.0 mi. N. and 4.1 mi. E. from, 0.7 mi. N. and 2.3 mi. W. from Richmond, 0.15 mi. E. of W. cor. secs. 6 and 7, T. 46 N., R. 8 E., in root on N. side of 12-in. walnut tree; copper nail and washer-----	<b>902.95</b>
Richmond, 1.7 mi. NW. of, about 1 mi. SW. of Genoa City, Wis., near NW. cor. sec. 8, T. 46 N., R. 8 E., 21 ft. S. and 24 ft. E. from junction of T-rd. W.; standard iron post with bronze cap stamped "Prim Trav Sta No 4 W 1921" (recovered in 1936) <sup>51</sup> -----	<b>827.783</b>
Reference mark, 12 ft. N. and 42 ft. W. from rd. junction, in root on W. side of 12-in. boxelder tree; copper nail and washer-----	<b>827.94</b>
Richmond, 0.9 mi. NW. of, near center of sec. 8, T. 46 N., R. 8 E., 110 ft. W. of junction of rd. SW., in root on E. side of 20-in. oak tree; copper nail and washer-----	<b>856.87</b>
Richmond, 22 ft. S. and 25 ft. E. from intersection of Broadway and Main Street, on concrete walk; chiseled square-----	<b>820.78</b>
Richmond, 18 ft. S. and 32 ft. E. from intersection of Main and Kenosha Streets, on concrete walk; chiseled square-----	<b>815.45</b>
Richmond, 0.9 mi. E. of, 0.15 mi. W. of center of sec. 10, T. 46 N., R. 8 E., on N. side of rd., on concrete head wall of culvert; chiseled square---	<b>797.31</b>
Richmond, 1.5 mi. E. of, near E¼ cor. sec. 10, T. 46 N., R. 8 E., 12 ft. N. and 50 ft. W. from junction of T-rd. S., on concrete head wall of culvert; chiseled square-----	<b>847.29</b>

<sup>49</sup> This bench mark is in Wisconsin.

<sup>50</sup> In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "A 17 1934," elevation 882.085 ft.

<sup>51</sup> In 1941 this bench mark was accidentally disturbed and was reset at the same location. No records are available as to its present elevation.

# 1530 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Richmond, 2.3 mi. E. of, at Washington School, 0.25 mi. E. of center of sec. 11, T. 46 N., R. 8 E., 50 ft. N. of junction of T-rd. S., in schoolyard, in root on W. side of 16-in. boxelder tree; copper nail and washer-----	Feet 904.87
[Connects with line 1 in Grays Lake quadrangle]	
8. From point 4 miles south and 3.2 miles west from Hebron east along township-line road to point 1.7 miles northeast of Greenwood, thence along roads northeast and north to road junction 1.7 miles northwest of Richmond (by H. P. Jones in 1923)	
[Connects with line 4 in Harvard quadrangle]	
Hebron, 4.0 mi. S. and 2.5 mi. W. from, 3.0 mi. S. and 1.8 mi. E. from Alden, near S $\frac{1}{4}$ cor. sec. 36, T. 46 N., R. 6 E., 38 ft. N. and 27 ft. W. from junction of T-rd. N., in root on W. side of 24-in. willow tree; copper nail and washer-----	978.32
Hebron, 4.0 mi. S. and 0.3 mi. W. from, 0.25 mi. W. of SE. cor. sec. 32, T. 46 N., R. 7 E., 22 ft. N. and 27 ft. E. from crossroads, in concrete post; standard tablet stamped "9 HPJ 1923"-----	877.670
Reference mark, 23 ft. S. and 30 ft. E. from crossroads, in root on W. side of 24-in. oak tree; copper nail and washer-----	877.36
Hebron, 4.0 mi. S. and 1.0 mi. E. from, near NW. cor. sec. 3, T. 45 N., R. 7 E., 20 ft. S. and 25 ft. E. from crossroads, in root on W. side of 16-in. oak tree; copper nail and washer-----	867.42
Hebron, 4.0 mi. S. and 2.0 mi. E. from, 1.7 mi. in air line N. of Greenwood, near NE. cor. sec. 3, T. 45 N., R. 7 E., 37 ft. S. and 28 ft. W. from crossroads, in root on W. side of 12-in. hickory tree; copper nail and washer-----	906.06
Greenwood, 1.7 mi. NE. of, 0.2 mi. W. of SE. cor. sec. 35, T. 46 N., R. 7 E., 43 ft. E. of rd. junction, in concrete post; standard tablet stamped "10 HPJ 1923" <sup>52</sup> -----	916.544
Reference mark, 40 ft. S. and 30 ft. W. from rd. junction, in root on N. side of 36-in. oak tree; copper nail and washer-----	914.84
Greenwood, 2.7 mi. NE. of, at Tryons Grove School, near NW. cor. sec. 36, T. 46 N., R. 7 E., 73 ft. S. and 190 ft. E. from crossroads, in schoolyard, in root on N. side of 24-in. oak tree; copper nail and washer-----	920.20
Tryons Grove School, 0.5 mi. NE. of, 1.8 mi. SW. of Keystone School, in SW $\frac{1}{4}$ sec. 25, T. 46 N., R. 7 E., 175 ft. W. of rd. fork, on S. side of rd., in root on N. side of 20-in. oak tree; copper nail and washer--	901.48
Keystone School, 0.9 mi. SW. of, in NW $\frac{1}{4}$ sec. 30, T. 46 N., R. 8 E., on W. side of angle in rd., in root on W. side of 14-in. hickory tree; copper nail and washer-----	879.13
Keystone School, 2.2 mi. S. and 1.5 mi. W. from Richmond, near SW. cor. sec. 20, T. 46 N., R. 8 E., 38 ft. N. and 32 ft. E. from crossroads, in concrete post; standard tablet stamped "11 HPJ 1923"-----	850.006
Reference mark, 37 ft. S. and 58 ft. W. from crossroads, in root on E. side of 12-in. maple tree; copper nail and washer-----	854.50
Richmond, 1.5 mi. W. and 1.0 mi. S. from, 0.2 mi. N. of SW. cor. sec. 17, T. 46 N., R. 8 E., 42 ft. S. and 28 ft. E. from junction of T-rd. W., in root on S. side of 36-in. maple tree; copper nail and washer-----	889.32
Richmond, 1.5 mi. W. of, at Montelona School, 0.25 mi. N. of SW. cor. sec. 8, T. 46 N., R. 8 E., 65 ft. N. and 45 ft. E. from crossroads, in schoolyard, in root on S. side of 30-in. maple tree; copper nail and washer--	874.62

<sup>52</sup> In 1941 it was reported that the concrete post was struck by an automobile and the upper portion broken off.

9. From road junction 1.7 miles northwest of Richmond along roads  
south and southwest to Belden (by W. C. Elledge in 1938)

Richmond, 1.5 mi. W. of, 0.6 mi. NE. of Belden, 0.25 mi. S. of quarter corner between secs. 7 and 8, T. 46 N., R. 8 E., 35 ft. N. and 25 ft. W. from crossroads, on E. head wall of concrete culvert under driveway to farmhouse; chiseled square-----	<i>Feet</i> 875.76
U. S. C. & G. S. standard disk stamped "C 17 1934"-----	885.343

# MARSEILLES QUADRANGLE

[Latitude 41°15'–41°30'; longitude 88°30'–88°45']

GRUNDY, KENDALL, AND LA SALLE COUNTIES

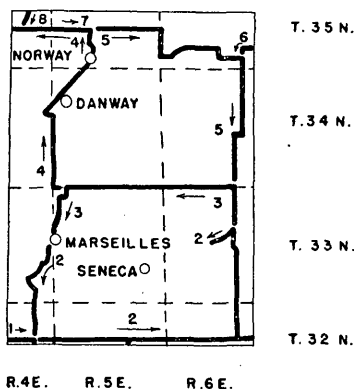


FIGURE 254.—Lines of leveling in Marseilles quadrangle.

1. From point 1 mile north and 4.2 miles east from Grand Ridge east along road to crossroads 5.2 miles south and 1 mile west from Marseilles, thence south 0.1 mile (by R. G. Clinite in 1911)

[Continued from Ottawa quadrangle, line 4]

Grand Ridge, 1.0 mi. N. and 5.7 mi. E. from, 5.2 mi. S. and 1.0 mi. W. from Marseilles, near NE. cor. sec. 14, T. 32 N., R. 4 E., 250 ft. W. of crossroads, on top of SE. wing wall of bridge over creek; chiseled square (recovered in 1941)

Feet  
665.66

[Continued in Odell quadrangle, line 1]

2. From Marseilles along roads south 6 miles, thence east to crossroads 1.5 miles south and 1 mile west from Wauponsee, thence north and west to point on river road 3.6 miles northeast of Seneca (by C. R. French in 1913; portion of line from sec. 8 to sec. 11, T. 32 N., R. 6 E., releveled by George Adgate in 1934)

Marseilles, at E. wing wall of N. abutment of highway bridge over Illinois River, in top of N. end stone of eighth course below bridge seat; copper bolt (U. S. C. E. B.M.86)<sup>63</sup>

481.429

Marseilles, 2.5 mi. SW. of, 0.15 mi. S. of center of sec. 26, T. 33 N., R. 4 E., on SW. side of rd. bearing NW.-SE., at junction of rd. NE., in NE. corner of yard of Larson dwelling; standard iron post with bronze cap stamped "713"

713.102

Marseilles, 2.5 mi. SW. thence 1.5 mi. S. from, near NE. cor. sec. 2, T. 32 N., R. 4 E., in SW. angle of offset crossroads, on boulder 3 ft. in diameter; chiseled square

709.75

<sup>63</sup> In 1934 it was reported that this bench mark had been destroyed.

Marseilles, 2.5 mi. SW. thence 3.5 mi. S. from, 1.0 mi. N. and 5.7 mi. E. from Grand Ridge, near NW. cor. sec. 13, T. 32 N., R. 4 E., in SE. angle of crossroads, 2 ft. S. of fence corner, 1 ft. W. of fence; standard iron post with bronze cap stamped "668" (recovered in 1941)-----	Feet 667.861
T. 32 N., R. 5 E., near SW. cor. sec. 7, in NE. angle of crossroads, on W. end of N. concrete head wall of culvert; chiseled square (recovered in 1941)-----	705.30
T. 32 N., R. 5 E., near SW. cor. sec. 8, in NE. angle of crossroads, 2 ft. E. of fence corner, 1 ft. S. of fence; standard iron post with bronze cap stamped "721" (recovered in 1941)-----	728.500
T. 32 N., R. 5 E., near SE. cor. sec. 10, in NW. angle of crossroads, 2 ft. N. of fence corner, 1 ft. E. of fence; standard iron post with bronze cap stamped "676" (recovered in 1934)-----	675.570
T. 32 N., R. 6 E., 170 ft. E. of NW. cor. sec. 18, in SE. angle of offset crossroads, on SW. corner of SW. concrete wing wall of bridge over Hog Run; chiseled mark-----	654.97
T. 32 N., R. 6 E., near SW. cor. sec. 8, in NE. angle of crossroads; standard iron post with bronze cap stamped "659" (recovered in 1941)-----	658.934
T. 32 N., R. 6 E., 0.25 mi. E. of N $\frac{1}{4}$ cor. sec. 16, at bridge over Bills Run, on SW. concrete wing wall, 2 ft. W. of W. edge of bridge floor; chiseled square-----	638.36
Wauponsee, 1.5 mi. S. and 1.0 mi. W. from, near SW. cor. sec. 11, T. 32 N., R. 6 E., in NE. angle of crossroads, on S. and E. side of streams, 1 ft. E. of fence corner, 1 ft. S. of fence; standard iron post with bronze cap stamped "626" (reset in 1934; see following description).-----	626.411
Wauponsee, 1.5 mi. S. and 1.0 mi. W. from, near NE. cor. sec. 15, T. 32 N., R. 6 E., in SW. angle of offset crossroads, 250 ft. S. and 30 ft. W. from junction of N.-S. rd. and rd. W.; standard iron post with bronze cap stamped "626" (as reset in 1934; recovered in 1941)-----	627.075
Wauponsee, 1.0 mi. N. and 1.0 mi. W. from, near W $\frac{1}{4}$ cor. sec. 35, T. 33 N., R. 6 E., on E. side of N.-S. rd., NE. of junction of T-rd. W., on boulder 3 ft. in diameter; chiseled square-----	621.22
Wauponsee, 2.0 mi. N. and 1.0 mi. W. from, 2.3 mi. in air line S. of Five-mile Bridge over Illinois and Michigan Canal, near W $\frac{1}{4}$ cor. sec. 26, T. 33 N., R. 6 E., in NE. angle of crossroads, 3 ft. E. of fence corner, 1 ft. S. of fence; standard iron post with bronze cap stamped "606" (recovered in 1941)-----	606.040
Fivemile Bridge, 1.3 mi. S. of, 20 ft. S. of W $\frac{1}{4}$ cor. sec. 23, T. 33 N., R. 6 E., in SE. angle of crossroads; iron post stamped "Illinois River Survey, U S Lat 41°19'10", Long 88°30'58", 594" (recovered in 1941).-----	592.992
Fivemile Bridge, 1,100 ft. SW. of, in NE $\frac{1}{4}$ sec. 15, T. 33 N., R. 6 E., 60 ft. N. of river rd., opposite lane S., in field, on boulder 4 ft. in diameter; chiseled square-----	497.29
Fivemile Bridge, 1.5 mi. SW. of, 3.6 mi. NE. of Seneca, in SE $\frac{1}{4}$ sec. 16, T. 33 N., R. 6 E., on N. side of river rd., in front yard of dwelling of William Hollenbeck; U. S. C. E. B. M. 90 cap on iron post-----	510.832
bolt in limestone block-----	506.862

3. From Fivemile Bridge over Illinois and Michigan Canal along roads north 2.2 miles, thence west 9 miles along township-line road, thence southwest to Marseilles (by C. R. French in 1913)

Fivemile Bridge, about 500 ft. NE. of, 0.12 mi. S. of NE. cor. sec. 15, T. 33 N., R. 6 E., in NW. angle of junction of rd. N., 65 ft. W. of mail box of Ed McNellis, on rock 3 ft. in diameter; chiseled square-----	Feet 511.56
Fivemile Bridge, 0.6 mi. N. of, 1.2 mi. SW. of Stockdale, at crossing of Chicago, Rock Island & Pacific Ry.; top of N. rail-----	519.9
Fivemile Bridge, 2.2 mi. N. of, near SE. cor. sec. 34, T. 34 N., R. 6 E., in NW. angle of crossroads, 3 ft. N. of fence corner, 1.5 ft. E. of fence; standard iron post with bronze cap stamped "590"-----	589.950
T. 34 N., R. 6 E., near SW. cor. sec. 32, in NE. angle of crossroads, 12 ft. N. of fence corner, 1 ft. W. of fence; standard iron post with bronze cap stamped "618"-----	617.854
T. 34 N., R. 5 E., near SE. cor. sec. 34, 3.6 mi. N. thence 1.0 mi. W. from Seneca, in NW. angle of crossroads, 30 ft. W. of fence corner, 1.5 ft. S. of fence; standard iron post with bronze cap stamped "Prim Trav Sta No 7 1912 699"-----	698.823
Tps. 33 and 34 N., R. 5 E., at cor. secs. 3, 4, 33, and 34, in center of crossroads, on stone marking section corner; chiseled square-----	706.04
Marseilles, 0.5 mi. NE. of Main Street crossing of C. R. I. & P. Ry., 0.3 mi. S. of NW. cor. sec. 18, T. 33 N., R. 5 E., at rd. forks, in center of coping of W. head wall of culvert; chiseled square-----	556.05
Marseilles, at Main Street crossing of C. R. I. & P. Ry., at center of E. walk; top of N. rail of west-bound track-----	495.1

4. From crossroads 2.8 miles north of Marseilles along roads west 0.8 mile, thence north and northeast to crossroads 1.5 miles north of Norway, thence west to point 1 mile west of Serena (by C. R. French in 1913)

Marseilles, 2.8 mi. N. of, at Loring School, near NW. cor. sec. 6, T. 33 N., R. 5 E., in SE. angle of crossroads, at NW. corner of schoolyard, 1 ft. N. of fence corner; standard iron post with bronze cap stamped "676"-----	675.672
Marseilles, 4.8 mi. N. of, 2.4 mi. S. and 0.8 mi. W. from Danway, near SW. cor. sec. 19, T. 34 N., R. 5 E., in NE. angle of crossroads, 25 ft. N and 5 ft. W. from corner of hedgerows, 30 ft. N. of mail box of N. H. Nelson; standard iron post with bronze cap stamped "719"-----	718.651
Danway, 0.5 mi. N. of, 2.0 mi. along Chicago rd. SW. of Norway, near NE. cor. sec. 7, T. 34 N., R. 5 E., in SW. angle of crossroads, on S. line of house extended, 1.5 ft. E. of fence, on center line extended of rd. S.; standard iron post with bronze cap stamped "643" <sup>53</sup> -----	642.263
Danway, 0.5 mi. N. of, 2.0 mi. along Chicago Rd. SW. of Norway, S. of NE. cor. sec. 7, T. 34 N., R. 5 E., in SW. angle of crossroads, on S. line of house extended, 1.5 ft. E. of new right-of-way line, on center line of rd. N. extended, in concrete post; standard tablet stamped "Reset 1941" (as reset in 1941)-----	642.708
Norway, 1.1 mi. along Chicago Rd. SW. of, in NE¼ sec. 5, T. 34 N., R. 5 E., 500 ft. N. of cemetery, on NE. concrete wing wall of bridge; chiseled square-----	626.87
Norway, 65 ft. E. of NE. corner of blacksmith shop, on boulder 2 ft. in diameter; chiseled square-----	638.77

<sup>53</sup> Destroyed in 1941 and replaced by a standard tablet. See following description.

Norway, 0.8 mi. N. of, in SW $\frac{1}{4}$ sec. 28, T. 35 N., R. 5 E., at angle in rd. from NW. to N., on W. wing wall of N. abutment of concrete bridge; chiseled square (recovered in 1934)-----	<i>Feet</i> 598.02
Norway, 1.5 mi. N. thence 0.8 mi. W. from, 2.5 mi. E. of Serena, 0.3 mi. E. of SW cor. sec. 20, T. 35 N., R. 5 E., 270 ft. E. of E. end of bridge over Fox River, on N. side of rd., 80 ft. NE. of NE. post in guard fence of bridge approach; standard iron post with bronze cap stamped "528" (reset in 1934; see line 7)-----	527.952
Fox River, under bridge; surface of water July 31, 1913-----	520.0
Serena, in front of Chicago, Burlington & Quincy R. R. sta.; top of W. rail-----	632.6
Serena, 0.4 mi. W. of, 0.15 mi. W. of S $\frac{1}{4}$ cor. sec. 23, T. 35 N., R. 4 E., in NW. angle of crossroads, 3 ft. S. of fence, 15 ft. W. of fence, on N. end of concrete culvert; chiseled square (reported destroyed)---	630.69
[Connects with line 2 in Ottawa quadrangle]	
5. From crossroads 1.5 miles north of Norway along roads alternately east and south to crossroads 1 mile south and 1.5 miles west from Lisbon, thence south to crossroads 2.2 miles north of Fivemile Bridge over Illinois and Michigan Canal (by C. R. French in 1913)	
Norway, 1.9 mi. NE. along Chicago rd. thence 0.5 mi. E. from, near SW. cor. sec. 23, T. 35 N., R. 5 E., on N. side of rd., opposite center line of T-rd. S., 3 ft. S. of hedgerow; standard iron post with bronze cap stamped "642"-----	641.334
T. 35 N., R. 6 E., near NW. cor. sec. 30, on E. side of county-line rd., opposite T-rd. W., 3 ft. S. and 4 ft. E. from fence corner, on boulder 3 ft. in diameter; chiseled square-----	704.11
T. 35 N., R. 5 E., near E $\frac{1}{4}$ cor. sec. 36, 0.5 mi. N. of corner of Grundy, Kendall, and La Salle Counties, in NW. angle of intersection of Telephone rd. and county-line rd., 1.5 ft. S. and 12 ft. W. from fence corner; standard iron post with bronze cap stamped "740"-----	739.976
T. 35 N., R. 6 E., 0.2 mi. N. of W $\frac{1}{4}$ cor. sec. 32, at dwelling of O. C. Hodge, on NE. end of small stone culvert under driveway; chiseled square-----	676.99
T. 35 N., R. 6 E., 0.25 mi. E. of SW. cor. sec. 27, 2.8 mi. SW. of Lisbon, in NW. angle of crossroads, 1.5 ft. S. and 90 ft. W. from fence corner; standard iron post with bronze cap stamped "689"-----	689.126
T. 34 N., R. 6 E., near N $\frac{1}{4}$ cor. sec. 2, 1.5 mi. S. and 1.4 mi. W. from Lisbon, 150 ft. S. of Grundy-Kendall county line, on E. side of rd., just S. of dwelling of T. Larson, 1.5 feet. W. of fence corner; standard iron post with bronze cap stamped "627" (recovered in 1914)---	626.304
T. 34 N., R. 6 E., near S $\frac{1}{4}$ cor. sec. 14, 5.1 mi. N. and 0.5 mi. E. from Fivemile Bridge, at junction of T-rd. E., 25 ft. E. of fence corner, 1.5 ft. N. of fence; standard iron post with bronze cap stamped "591"-----	591.077
Fivemile Bridge, 4.8 mi. N. of, 0.15 mi. N. of W $\frac{1}{4}$ cor. sec. 23, T. 34 N., R. 6 E., on NW. wing wall of bridge over Nettle Creek, 11 ft. NW. of N. end of W. truss; chiseled square-----	582.14
Fivemile Bridge, 3.2 mi. N. of, near SE. cor. sec. 27, T. 34 N., R. 6 E., in NW. angle of junction of T-rd. W., on N. end of masonry culvert; chiseled square-----	592.52

# 1536 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

6. From point 0.5 mile south and 1 mile west from Lisbon west 0.5 mile, thence south 1 mile to Grundy-Kendall county line (by E. C. Bibbee in 1914)

[Continued from Morris quadrangle, line 3]

Lisbon, 0.5 mi. S. and 1.0 mi. W. from, 135 ft. E. of SW. cor. sec. 25, T. 35 N., R. 6 E., at NE. corner of bridge, on W. end of wing wall; chiseled square-----	<i>Feet</i> 666.40
Lisbon, 0.5 mi. S. and 1.5 mi. W. from, near N¼ cor. sec. 35, near crossroads, at S. end of stone arch culvert, on parapet; chiseled square----	665.77

7. From point 1 mile west of Serena east along road 4.2 miles, thence south 0.8 mile to point 0.8 mile north of Norway (by C. G. Dickinson in 1934; leveled twice)

[Continued from Ottawa quadrangle, line 10]

Serena, 0.4 mi. W. of, 0.1 mi. W. of quarter corner between secs. 23 and 26, T. 35 N., R. 4 E., 20 ft. N. and 35 ft. W. from crossroads, in top of N. head wall of concrete culvert; monel-metal rivet-----	631.83
Serena, 0.9 mi. E. of, 0.25 mi. W. of SE. cor. sec. 24, T. 35 N., R. 4 E., on top of N. head wall of concrete culvert; chiseled square-----	628.66
Serena, 2.0 mi. E. of, 0.15 mi. W. of SE. cor. sec. 19, T. 35 N., R. 5 E., on N. side of highway, on top of W. head wall of small culvert; chiseled square-----	624.48
Serena, 2.5 mi. E. of, 0.3 mi. E. of SW. cor. sec. 20, T. 35 N., R. 5 E., 63 ft. N. and 143 ft. E. from E. end of new highway bridge over Fox River, in NE. angle of junction of rd. NW., at fence corner; standard iron post with bronze cap stamped "528" (as reset; see line 4)-----	526.661
Serena, 3.3 mi. E. of, 1.5 mi. N. of Norway, 0.17 mi. W. of N¼ cor. sec. 28, T. 35 N., R. 5 E., 25 ft. S. and 20 ft. W. from crossroads, on top of S. end of W. head wall of concrete culvert; chiseled square-----	617.71

8. From point 2 miles south and 2.7 miles west from Sheridan southwest along road to crossroads 0.4 mile west of Serena (by C. G. Dickinson in 1934)

[Continued from Plano quadrangle, line 3]

Serena, 0.4 mi. W. thence 0.8 mi. NE. from, 2.3 mi. S. and 3.0 mi. W. from Sheridan, near center of NE¼ sec. 23, T. 35 N., R. 4 E., 0.2 mi. SW. of junction of rd. E., on NW. side of rd., 63 ft. SE. of farmhouse of F. G. Krieger, in root of 36-in. maple tree; spike-----	636.34
---	--------

# MENDOTA QUADRANGLE

[Latitude 41°30'–41°45'; longitude 89°00'–89°15']

## BUREAU, LA SALLE, AND LEE COUNTIES

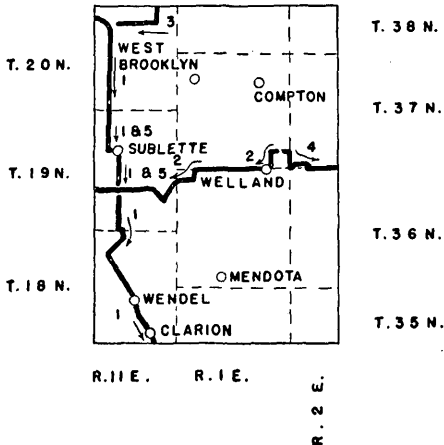


FIGURE 255.—Lines of leveling in Mendota quadrangle.

1. From point 1.6 miles east of Lee Center along roads southeast 0.7 mile, thence generally south and southeast to point 1.8 miles north and 3 miles east from Arlington (by H. S. Senseney in 1916)

[Connects with line 1 in Amboy quadrangle]

Lee Center, 2.3 mi. SE. of, 0.5 mi. W. thence 6.7 mi. N. from Sublette, near center of sec. 9, T. 20 N., R. 11 E., at NE. corner of bridge over Green River, on curb; chiseled square (recovered in 1930)-----	Feet 757.79
Sublette, 0.5 mi. W. thence 4.5 mi. N. from, near center of sec. 21, T. 20 N., R. 11 E., 25 ft. S. and 25 ft. W. from crossroads; standard iron post with bronze cap stamped "784"-----	783.357
Reference mark, 335 ft. E. of crossroads, on N. end of W. abutment of bridge; chiseled square-----	782.54
Sublette, 0.5 mi. W. thence 2.9 mi. N. from, near S¼ cor. sec. 28, T. 20 N., R. 11 E., in NE. angle of crossroads, on boulder; chiseled square-----	889.85
Sublette, 0.5 mi. W. thence 1.9 mi. N. from, near S¼ cor. sec. 33, T. 20 N., R. 11 E., in NE. angle of crossroads, in root of tree; copper nail and washer-----	918.34
Sublette, 0.5 mi. W. thence 1.0 mi. N. from, near N¼ cor. sec. 9, T. 19 N., R. 11 E., 25 ft. S. and 35 ft. W. from crossroads; standard iron post with bronze cap stamped "901" and "Prim Trav Sta No. 101 S 1922" (recovered in 1930)-----	900.770
Sublette, in SW. angle of crossroads, W. of Illinois Central R. R. crossing, on SW. corner of base of lamppost; chiseled square (recovered in 1930) <sup>64</sup> -----	922.99

<sup>64</sup> In 1930 it was reported that the lamppost had been knocked slantwise by a storm, but the base was in good condition.

# 1538 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Sublette, 2.0 mi. S. of, near NE. cor. sec. 28, T. 19 N., R. 11 E., 25 ft. S. and 40 ft. W. from crossroads; standard iron post with bronze cap stamped "863" and "Prim Trav Sta No 100 S 1922" (recovered in 1930)-----	<i>Feet</i> 862.254
Reference mark, in SW. angle of crossroads, in root of tree; copper nail and washer (recovered in 1930)-----	861.16
Sublette, 4.0 mi. S. of, near SW. cor. sec. 34, T. 19 N., R. 11 E., near Bureau-Lee county line, on N. end of W. abutment of bridge; chiseled square-----	797.57
Sublette, about 5.5 mi. S. and 0.9 mi. W. from, 2.6 mi. NW. of Wendel, in NW¼ sec. 9, T. 18 N., R. 11 E., 25 ft. N. and 30 ft. W. from crossroads; standard iron post with bronze cap stamped "802"-----	801.632
Wendel, at R. R. crossing; top of N. rail-----	802.9
Wendel, 0.5 mi. S. of, 1.7 mi. NW. of Clarion, near S¼ cor. sec. 22, T. 18 N., R. 11 E., 30 ft. S. and 25 ft. E. from crossroads; standard iron post with bronze cap stamped "798"-----	797.183
Reference mark, in NW. angle of crossroads, in root of tree; copper nail and washer-----	795.63
Clarion, 0.4 mi. NW. of, 2.5 mi. N. and 2.6 mi. E. from Arlington, near NW. cor. sec. 35, T. 18 N., R. 11 E., in root of tree; copper nail and washer-----	759.86
Clarion, at R. R. crossing; top of N. rail-----	742.0
[Connects with line 3 in La Salle quadrangle]	
2. From point 3.5 miles south and 1 mile east from Compton alternately west and south along roads to crossroads 4 miles north and 3.2 miles west from Mendota, thence northwest about 1 mile along U. S. Highway 52, thence west along road to point 2 miles south and 1.3 miles west from Sublette (by G. W. Moore in 1930)	
Daviess triangulation sta. (U. S. C. & G. S.), 1.4 mi. N. of Welland, on E. side of Chicago, Milwaukee, St. Paul & Pacific R. R. track, on N. side of fourth section rd. crossing S. of Roxbury, 100 yd. SE. of residence of L. Politsch, 5 yd. E. of E. end of overhead rd bridge, 16.93 ft. E. of E. and nearest edge of bridge V30, in concrete; U. S. C. & G. S. standard triangulation station disk designated "Daviess"-----	936.703
Daviess triangulation sta. reference mark (U. S. C. & G. S.), 37.89 ft. from sta. in azimuth 148°10', on E. side of track, just N. of E. end of bridge, near fence line, in concrete; U. S. C. & G. S. standard reference disk stamped "924.043 Daviess 1920"-----	924.043
Compton, 3.5 mi. S. and 0.5 mi. E. from, 0.2 mi E. thence 1.0 mi. N. from Welland, at Politsch School, near SW cor. sec. 25, T. 37 N., R. 1 E., 40 ft. N. and 50 ft. E. from crossroads, on NW. corner of platform of schoolhouse; chiseled square-----	923.92
Compton, 4.5 mi. S. and 0.5 mi. E. from, 5.5 mi. N. and 2.5 mi. E. from Mendota, 0.2 mi. E. of Welland, near NE. cor. sec. 2, T. 36 N., R. 1 E., 30 ft. S. and 300 ft. W. from junction of T-rd. S., 140 ft. W. of overhead crossing of Chicago, Milwaukee, St. Paul & Pacific R. R., in concrete post; aluminum tablet stamped "Prim Trav Sta No 105 S 1922"-----	876.200
Reference mark, 90 ft. E. of tablet, on S. side of rd., 100 ft. E. of rd. junction, 45 ft. W. of overhead R. R. crossing, on large circular concrete culvert; chiseled square-----	872.69

Mendota, 5.5 mi. N. and 1.5 mi. E. from, 0.8 mi. W. of Welland, near NE. cor. sec. 3, T. 36 N., R. 1 E., 40 ft. W. of crossroads, on S. end of large circular concrete drain; chiseled square-----	<i>Feet</i> 900.73
Mendota, 5.5 mi. N. and 0.5 mi. E. from, near SE. cor. sec. 33, T. 37 N., R. 1 E., in NW. angle of offset crossroads, on N. head wall of small concrete culvert; chiseled square-----	911.44
Mendota, 5.5 mi. N. and 0.5 mi. E. from, near SE. cor. sec. 33, T. 37 N., R. 1 E., 30 ft. N. and 30 ft. W. from junction of T-rd. N., 50 ft. W. of junction of T-rd. S., 20 ft. NW. of concrete culvert; in root on S. side of 30-in. maple tree; spike and washer-----	911.93
Mendota, 5.5 mi. N. and 0.5 mi. W. from, near N. cor. secs. 4 and 5, T. 36 N., R. 1 E., 25 ft. S. of junction of T-rd. N. at S. cor. secs. 32 and 33, T. 37 N., R. 1 E., in concrete post; aluminum tablet stamped "Prim Trav Sta No 104 S 1922"-----	906.542
Reference mark, 80 ft. E. of tablet, 35 ft. S. of junction of T-rd. S. at N. cor. secs. 4 and 5, T. 36 N., R. 1 E., on E. side of rd., on top near center of V-shaped culvert; chiseled square-----	909.79
Mendota, 5.5 mi. N. and 1.3 mi. W. from, 0.16 mi. E. of junction of T-rd. N. at S. corner secs. 31 and 32, T. 37 N., R. 1 E., 760 ft. E. of junction of T-rd. S. at N. cor. secs. 5 and 6, T. 36 N., R. 1 E., on top near center of N. head wall of circular concrete culvert; chiseled square-----	864.53
Mendota, 5.0 mi. N. and 1.5 mi. W. from, near W $\frac{1}{4}$ cor. sec. 5, T. 36 N., R. 1 E., 30 ft. N. and 45 ft. E. from crossroads, in fence, in root on NW. side of 12-in. walnut tree; copper nail and washer-----	887.60
Mendota, 5.0 mi. N. and 2.0 mi. W. from, near center of sec. 6, T. 36 N., R. 1 E., 65 ft. NW. of crossroads, in fence corner, in root on NE. side of 12-in. boxelder tree; copper nail and washer-----	891.93
Mendota, 4.8 mi. N. and 2.6 mi. W. from, in SE $\frac{1}{4}$ sec. 24, T. 19 N., R. 11 E., 125 ft. NE. of rd. fork, in root on S. side of 24-in. oak tree; copper nail and washer-----	896.61
Mendota, 4.0 mi. N. and 3.0 mi. W. from, 3.5 mi. SE. of Sublette along U. S. Highway 52, 0.25 mi. W. of center of sec. 25, T. 19 N., R. 11 E., 70 ft. N. of highway intersection, 60 ft. NW. and 30 ft. NE. from junction of rds. NW. and NE., 130 ft. NW. of junction of rd. NE., in concrete post; aluminum tablet stamped "Prim Trav Sta No 103 S 1922"-----	862.140
Reference mark, 155 ft. E. 20° S. from tablet, 45 ft. S. of rd. NE., 9.5 ft. E. of NE. wooden guard post of new State highway overhead bridge, between rds. S. and SE., on N. end of W. head wall of concrete culvert; chiseled square-----	868.55
Sublette, 2.0 mi. S. thence 1.8 mi. E. from, 0.15 mi. W. of E. cor. secs. 23 and 26, T. 19 N., R. 11 E., in NW. angle of junction of rd. W., 20 ft. W. of highway, 60 ft. E. of Illinois Central R. R. crossing, on E. end of N. head wall of concrete culvert; chiseled square (recovered by U. S. C. & G. S. in 1934)-----	835.868
Sublette, 2.0 mi. S. thence 1.0 mi. E. from, near NE. cor. sec. 27, T. 19 N., R. 11 E., 33 ft. S. and 105 ft. W. from crossroads, in root on N. side of 18-in. Osage-orange tree; copper nail and washer-----	842.47
Sublette, 2.0 mi. S. thence 1.2 mi. W. from, 0.25 mi. W. of NE. cor. sec. 29, T. 19 N., R. 11 E., 35 ft. S. and 55 ft. E. from crossroads, inside fence, in root on W. side of 9-in. fir tree; copper nail and washer-----	881.96

[Continued in Amboy quadrangle, line 2]

# 1540 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

3. From point 3.7 miles north and 2 miles west from West Brooklyn along roads south 1 mile, thence west to point 2.3 miles southeast of Lee Center, thence northwest 0.7 mile (by G. W. Moore in 1930)

[Continued from Rochelle quadrangle, line 5]

West Brooklyn, 3.2 mi. N. and 2.0 mi. W. from, near cor. secs. 1, 2, 11, and 12, T. 20 N., R. 11 E., 11 ft. S. and 16 ft. E. from junction of private rd. E., 7.5 ft. E. of NE. corner of bridge over large ditch, on W. end of S. head wall of stone culvert; chiseled square-----	Feet 752.12
West Brooklyn, 2.7 mi. N. and 2.0 mi. W. from, 2.3 mi. SE. thence 2.6 mi. E. from Lee Center, near E $\frac{1}{4}$ cor. sec. 11, T. 20 N., R. 11 E., 25 ft. S. and 47 ft. W. from junction of T-rd. W., 26 ft. W. of fence corner, outside fence, in concrete post; standard tablet stamped "S M 1930"-----	754.960
Lee Center, 2.3 mi. SE. thence 1.7 mi. E. from, near W $\frac{1}{4}$ cor. sec. 11, T. 20 N., R. 11 E., 13 ft. N. and 315 ft. E. from crossroads, 13 ft. S. of fence, in root on S. side of 32-in. cottonwood tree; copper nail and washer-----	759.91
Lee Center, 2.3 mi. SE. thence 0.9 mi. E. from, 0.24 mi. E. of W $\frac{1}{4}$ cor. sec. 10, T. 20 N., R. 11 E., 25 ft. S. and 20 ft. W. from junction of T-rd. N., 38 ft. W. of T-fence S., in root on NE. side of multiple cherry tree; copper nail and washer-----	763.58

[Connects with line 1 in Amboy quadrangle]

4. From point 3.5 miles south and 1 mile east from Compton along roads alternately east and south to point 4.1 miles south and 1.1 miles west from Paw Paw (by G. W. Moore in 1930)

Compton, 3.5 mi. S. and 1.5 mi. E. from, 1.2 mi. E. thence 1.0 mi. N. from Welland, near NE. cor. sec. 36, T. 37 N., R. 1 E., 32 ft. S. and 73 ft. W. from crossroads, in field, in root on N. side of twin wild-cherry tree; copper nail and washer-----	916.21
Compton, 4.3 mi. S. and 1.5 mi. E. from, 1.2 mi. E. thence 0.2 mi. N. from Welland, 0.2 mi. N. of SW. cor. sec. 31, T. 37 N., R. 2 E., 0.2 mi. N. of junction of T-rd. W., at SE. corner of large concrete bridge over creek, on top of railing; chiseled square-----	824.77
Compton, 4.5 mi. S. and 1.5 mi. E. from, 1.2 mi. E. of Welland, near SE. cor. sec. 36, T. 37 N., R. 1 E., 30 ft. N. and 32 ft. W. from junction of T-rd. W., 25 ft. N. of junction of rd. E., in SE. corner of farmyard, in root on SE. side of 18-in. maple tree; copper nail and washer-----	852.83
Compton, 4.3 mi. S. and 2.4 mi. E. from, 0.16 mi. N. of S. cor. secs. 31 and 32, T. 37 N., R. 2 E., at junction of N.-S. rd., 27 ft. E. of junction of rd. W., in root on W. side of 12-in. locust tree; copper nail and washer-----	850.54
Compton, 4.5 mi. S. and 3.3 mi. E. from, 0.25 mi. W. of SE. cor. sec. 32, T. 37 N., R. 2 E., 30 ft. W. of T-fence N., 25 ft. N. of rd., in root on S. side of 24-in. elm tree; copper nail and washer-----	821.65
Compton, 4.5 mi. S. and 4.0 mi. E. from, 4.1 mi. S. and 1.6 mi. W. from Paw Paw, near S $\frac{3}{4}$ cor. sec. 33, T. 37 N., R. 2 E., 330 ft. W. of T-fence N., 33 ft. N. of rd., 90 ft. SE. of farmhouse, in root on S. side of 13-in. walnut tree; copper nail and washer-----	802.03

[Continued in Earville quadrangle, line 2]

5. From crossroads 1 mile north and 0.5 mile west from Sublette alternately south and east along roads to crossroads 2 miles south of Sublette (by G. W. Moore in 1930)

Sublette, 0.5 mi. W. thence 1.0 mi. N. from, near S $\frac{1}{4}$ cor. sec. 4, T. 19 N., R. 11 E., in NW. angle of crossroads, on S. end of W. head wall of concrete culvert; chiseled square <sup>65</sup> -----	<i>Feet</i> 903.43
Sublette, 0.7 mi. NW. of, near center of sec. 9, T. 19 N., R. 11 E., in SE. angle of intersection of U. S. Highway 52, on N. end of E. head wall of concrete culvert; chiseled square (recovered by U. S. C. & G. S. in 1934)-----	903.236
Sublette, 0.5 mi. W. of, near S $\frac{1}{4}$ cor. sec. 9, T. 19 N., R. 11 E., 45 ft. N. and 30 ft. E. from junction of E.-W. rd., in root on W. side of 15-in. evergreen tree; copper nail and washer-----	919.64
Sublette, 1.2 mi. S. of, 0.18 mi. S. of NW. cor. sec. 22, T. 19 N., R. 11 E., 950 ft. S. and 33 ft. E. from crossroads, in farmyard of Irvin G. Rapp, 12 ft. N. of front gate, in root on SW. side of 44-in. cottonwood tree; copper nail and washer-----	900.66

---

<sup>65</sup> Established as a reference mark to bench mark stamped "Prim Trav Sta No 101 S 1922," described in line 1.

**MILAN QUADRANGLE**  
 [Latitude 41°15'–41°30'; longitude 90°30'–90°45']  
**MERCER AND ROCK ISLAND COUNTIES**

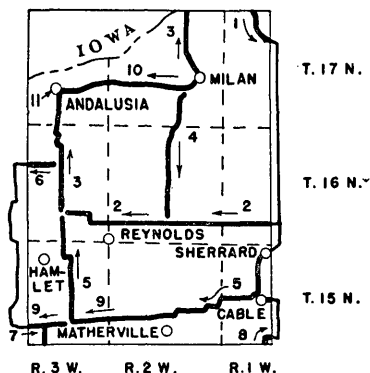


FIGURE 256.—Lines of leveling in Milan quadrangle.

1. South along streets and roads to point near south limits of Moline  
 (by G. E. Heebink in 1909)

[Continued from Davenport quadrangle, line 1]

No bench marks were established along this portion of the line.

[Continued in Orion quadrangle, line 1]

2. From point 1.5 miles north of Sherrard generally west along roads  
 to road junction 1.5 miles north and 2.5 miles west from Reynolds  
 (by G. E. Heebink in 1909)

[Connects with line 1 in Orion quadrangle]

Sherrard, 1.5 mi. N. and 2.3 mi. W. from, near SW. cor. sec. 30, T. 16 N., R. 1 W., 15 ft. N. and 60 ft. E. from crossroads; standard iron post with bronze cap stamped "735" and "Prim Trav Sta No 38 1910"	Feet 734.730
Sherrard, 1.5 mi. N. and 3.3 mi. W. from, at cor. secs. 25, 26, 35, and 36, T. 16 N., R. 2 W., at crossroads, on stone marking section corner; highest point	784.92
Sherrard, 1.5 mi. N. and 5.3 mi. W. from, 1.0 mi. N. and 3.0 mi. E. from Reynolds, near NW. cor. sec. 34, T. 16 N., R. 2 W., 30 ft. SE. of crossroads, at corner of wire fence; standard iron post with bronze cap stamped "776" and "Prim Trav Sta No 37 1910"	775.421
Reynolds, 1.0 mi. N. of, near NW. cor. sec. 31, T. 16 N., R. 2 W., at offset crossroads, on E. side of range-line rd., in line with S. edge of T-rd. W., 100 ft. E. of crossing of Chicago, Rock Island & Pacific Ry.; standard iron post with bronze cap stamped "794" and "Prim Trav Sta No 36 1910"	793.554
Reynolds, 1.5 mi. N. and 2.5 mi. W. from, near center of sec. 27, T. 16 N., R. 3 W., on W. side of N-S. rd., at junction of T-rd. E., in root of tree; 40-penny nail	775.42

3. From road junction 1.5 miles north and 2.5 miles west from Reynolds north along roads to Andalusia, thence east to Milan, thence north to Rock Island (by G. E. Heebink in 1909)

Reynolds, 4.0 mi. N. and 2.5 mi. W. from, 3.7 mi. S. of Andalusia, 2.5 mi. W. of Taylor Ridge, 2.5 mi. E. of Edgington, near S $\frac{1}{4}$ cor. sec. 10, T. 16 N., R. 3 W., 78 ft. N. and 20 ft. E. from crossroads; standard iron post with bronze cap stamped "792" (recovered in 1913)-----	<i>Feet</i> 789.948
Andalusia, 1.0 mi. S. of, on E. side of rd., in yard of large yellow house, in root of tree; 40-penny nail-----	732.80
Andalusia, in NE. part of village, at Baptist Church, in concrete step; aluminum tablet stamped "568" (recovered in 1931)-----	567.062
Andalusia, 4.0 mi. E. of, 0.6 mi. S. and 3.7 mi. W. from Milan, near SW. cor. sec. 20, T. 17 N., R. 2 W., 20 ft. N. and 60 ft. E. from junction of T-rd. S., 3 ft. S. of fence; standard iron post with bronze cap stamped "565" and "Prim Trav Sta No 41 1910" (recovered in 1931)-----	564.174
Milan, 0.6 mi. S. and 0.8 mi. W. from, 30 ft. S. and 30 ft. W. from cor. secs. 22, 23, 26, and 27, T. 17 N., R. 2 W., 30 ft. N. of R. R. crossing; standard iron post with bronze cap stamped "573" and "Prim Trav Sta No. 42 1910"-----	572.011
Milan, 2.4 mi. NW. of, in South Rock Island, on W. side of Ninth Street, 300 ft. W. of School No. 1 (District 2), 4 ft. E. of plank fence, just S. of line of junction with center of street leading E. to central streetcar sta.; standard iron post with bronze cap stamped "596" and "Prim Trav Sta No 42 1910"-----	594.637

[Continued in Davenport quadrangle, line 2]

4. From road junction 0.6 mile south and 0.8 mile west from Milan south along road to crossroads 1 mile north and 3 miles east from Reynolds (by G. E. Heebink in 1909)

Milan, 4.8 mi. SW. of, at Pleasant Ridge School, near E $\frac{1}{4}$ cor. sec. 9, T. 16 N., R. 2 W., in NE. corner of schoolyard, in root of tree; 30-penny nail-----	758.76
--	--------

5. From point 0.4 mile northeast of Sherrard southwest and south along roads to Cable, thence alternately west and south to crossroads near quarter corner between secs. 26 and 27, T. 15 N., R. 3 W., thence north to road junction 1.5 miles north and 2.5 miles west from Reynolds (by G. E. Heebink in 1909)

[Continued from Orion quadrangle, line 1]	
Cable, 0.2 mi. NW. of, 0.12 mi. E. of SW. cor. sec. 16, T. 15 N., R. 1 W., 42 ft. N. and 27 ft. W. from junction of rd. W., 17 ft. N. and 14 ft. W. from fence corner; standard iron post with bronze cap stamped "658" (recovered in 1921 and reported 6 in. underground and likely to be destroyed)-----	658.032
Cable, 2.5 mi. W. of, 1.2 mi. N. and 2.5 mi. E. from Matherville, 0.2 mi. N. and 0.25 mi. E. from center of sec. 24, T. 15 N., R. 2 W., 24 ft. S. and 90 ft. W. from junction of T-rd. W.; standard iron post with bronze cap stamped "796"-----	796.033
Matherville, 1.2 mi. NE. of, near center of sec. 22, T. 15 N., R. 2 W., at junction of T-rd. E., on stone marking quarter corner; highest point-----	791.46
Matherville, 0.9 mi. N. of, 0.25 mi. N. of SE. cor. sec. 21, T. 15 N., R. 2 W., 30 ft. S. and 60 ft. W. from crossroads; standard iron post with bronze cap stamped "797"-----	796.177

1544 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Matherville, 0.6 mi. N. and 3.2 mi. W. from, 4.3 mi. S. of Reynolds, 0.15 mi. S. of NE. cor. sec. 25, T. 15 N., R. 3 W., 24 ft. N. and 39 ft. W. from junction of range-line rd. and rd. SW., opposite dwelling of W. Kay; standard iron post with bronze cap stamped "782" (recovered in 1921)-----	Feet 781.733
Matherville, 0.3 mi. N. and 5.2 mi. W. from, 1.5 mi. E. of Perryton Church, 0.17 mi. N. of E $\frac{1}{4}$ cor. sec. 27, T. 15 N., R. 3 W., in SW. angle of crossroads, in stump of walnut tree; 40-penny nail (recovered in 1913)-----	777.67
Matherville, 1.7 mi. N. and 5.2 mi. W. from, 2.0 mi. S. and 1.5 mi. E. from Hamlet, 15 ft. N. and 27 ft. E. from cor. secs. 14, 15, 22, and 23, T. 15 N., R. 3 W., in NE. angle of crossroads; standard iron post with bronze cap stamped "780"-----	779.393
Hamlet, 1.0 mi. E. thence 1.0 mi. N. from, 2.5 mi. W. of Reynolds, 33 ft. S. and 57 ft. E. from N $\frac{1}{4}$ cor. sec. 3, T. 15 N., R. 3 W., at Mercer-Rock Island county line, at offset crossroads; standard iron post with bronze cap stamped "806"-----	805.650
6. From crossroads 2.5 miles west of Taylor Ridge west along road 1.8 miles to point 0.7 mile east of Edgington (by C. R. French in 1913)	
Taylor Ridge, 3.8 mi. W. of, 1.2 mi. E. of Edgington, 0.18 mi. E. of NW. cor. sec. 16, T. 16 N., R. 3 W., on S. side of rd., 75 ft. W. of junction of T-rd. N., in root of 24-in. tree; copper nail and washer-----	793.02
[Continued in Edgington quadrangle, line 1]	
7. From point 0.25 mile east of center of sec. 29, T. 15 N., R. 3 W., east along road 2.2 miles to crossroads near quarter corner between secs. 26 and 27, T. 15 N., R. 3 W. (by C. R. French in 1913)	
[Continued from Edgington quadrangle, line 1]	
Perryton Church, 3.5 mi. S. of Hamlet, near center of sec. 28, T. 15 N., R. 3 W., in NW. angle of crossroads, in front of church, on stone 18 in. in diameter; chiseled square (not recovered in 1921)-----	763.92
8. From point near center of sec. 33, T. 15 N., R. 1 W., north to road junction at north quarter corner sec. 33, thence east, north, and west to Cable (by S. R. Archer in 1921)	
[Continued from Alexis quadrangle, line 4]	
Cable, 2.0 mi. in air line S. of, 1.0 mi. N. and 0.5 mi. W. from Griffin, near S $\frac{1}{4}$ cor. sec. 28, T. 15 N., R. 1 W., 30 ft. N. and 30 ft. W. from junction of T-rd. S., 30 ft. W. of fence corner, in concrete post; standard tablet stamped "1921 688"-----	688.005
Reference mark, 270 ft. S. and 45 ft. E. from tablet, at culvert under N.-S. rd., on E. concrete head wall; chiseled square-----	686.22
[Jogs into Orion quadrangle, line 3]	
Cable, in NE. part of village, 0.1 mi. E. of N $\frac{1}{4}$ cor. sec. 21, T. 15 N., R. 1 W., on S. side of rd., on culvert at coal mine, on W. end of S. head wall; chiseled square-----	706.38
Cable, 0.2 mi. NW. of, 0.12 mi. E. of SW. cor. sec. 16, T. 15 N., R. 1 W., in NW. angle of junction of rd. W., 3 ft. SW. of fence corner; standard iron post with bronze cap stamped "1921 659" <sup>56</sup> -----	658.756

<sup>56</sup> This bench mark is about 22 ft. southeast of the standard iron post stamped "658," described in line 5.

9. From road junction 0.6 mile north and 3.2 miles west from Matherville southwest and west along road 4.2 miles to point 0.25 mile east of center of sec. 29, T. 15 N., R. 3 W. (by E. O. Brooks in 1921)

Perryton Church, 3.5 mi. S. of Hamlet, near center of sec. 28, T. 15 N., R. 3 W., in NW. angle of crossroads, 50 ft. SE. of church, in SE. corner of churchyard; standard iron post with bronze cap stamped "37 EB 1921 765"-----	Feet 764.761
Reference mark, 15 ft. N. and 40 ft. E. from iron post, in root of 36-in. maple tree; copper nail and washer-----	764.22

[Connects with line 2 in Edgington quadrangle]

10. From road junction 4 miles east of Andalusia west along road 1.4 miles (by S. R. Archer in 1931)

Andalusia, 3.7 mi. E. of, 0.25 mi. E. of S $\frac{1}{4}$ cor. sec. 19, T. 17 N., R. 2 W., at E. abutment of concrete bridge over drainage ditch, on N. parapet; chiseled square-----	563.40
Andalusia, 3.1 mi. E. of, 0.2 mi. W. of N $\frac{1}{4}$ cor. sec. 30, T. 17 N., R. 2 W., on top of E. end of S. head wall of concrete culvert; chiseled square--	569.53
Andalusia, 2.5 mi. E. of, 111 ft. W. of N.-S. line running through center of NE $\frac{1}{4}$ sec. 25, T. 17 N., R. 3 W., 0.2 mi. E. of dwelling of A. H. Mosher, S. of fence along S. side of rd.; Mississippi River Comm. B. M. 147/2	
cap on iron pipe-----	597.880
bolt in tile-----	593.870

11. At Andalusia (by S. R. Archer in 1931)

Andalusia, 0.5 mi. SW. of, 0.3 mi. E. of center of sec. 28, T. 17 N., R. 3 W., 325 ft. W. of junction of rd. SW., on S. side of rd., 3 ft. N. of fence; Mississippi River Comm. B. M. 146/2	
cap on iron pipe-----	585.780
bolt in tile-----	581.760

# MILES QUADRANGLE

[Latitude 42°00'–42°15'; longitude 90°15'–90°30']

## CARROLL AND JO DAVIESS COUNTIES

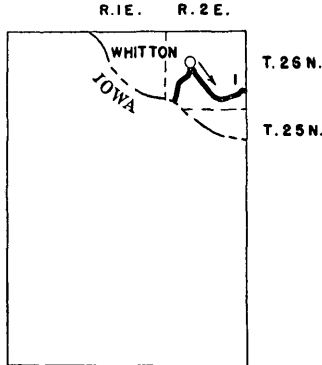


FIGURE 257.—Lines of leveling in Miles quadrangle.

1. From point 2 miles southwest of Whitton northeast to Whitton, thence southeast along Chicago, Burlington & Quincy Railroad 2.2 miles, thence northeast along roads 1.7 miles (by S. R. Archer in 1934)

Whitton, 2.0 mi. SW. of, on Savanna Proving Grounds, 0.2 mi. SE. of mouth of Crooked Slough, in SE. angle of junction of river rd. and rd. E., 328 ft. below grove of maple trees, 394 ft. above 20-in. blazed locust tree on E. side of river rd.; Mississippi River Comm. B. M. 171/2	
cap on iron pipe-----	Feet 619.470
bolt in tile-----	615.460
Whitton, 1.5 mi. SW. of, on Savanna Proving Grounds, 0.5 mi. N. of Mississippi River Comm. B. M. 171/2, 0.8 mi. due N. of highest prominent sand mound along river, 150 ft. E. of old fence corner at junction of old E.-W. fence and fence S., on W. slope near top of sand ridge; Mississippi River Comm. B. M. 171/1	
cap on iron pipe-----	657.290
bolt in tile-----	653.290
Whitton, 0.5 mi. SW. of, on Savanna Proving Grounds, at entrance to enclosure known as "Gate A," 30 ft. W. of gate, on S. side of driveway and R. R. track, inside enclosure and directly N. of NW. corner of guardhouse, on top of W. square concrete end post of wall around N. and E. sides of guardhouse; chiseled square-----	612.25
Whitton, 200 ft. N. of sta., at W. right-of-way fence line of C. B. & Q. R. R., 100 ft. S. of section foreman's house, on N. side of gate at entrance to Savanna Proving Grounds, 3 ft. E. of fence; Mississippi River Comm. triangulation sta. "Hanover"	
cap on iron pipe-----	612.660
chiseled square in tile-----	608.672

Whitton, at sta., in front of operator's window, on E. side of C. B. & Q. R. R. tracks, on SW. corner of concrete base of semaphore block; chiseled square -----	<i>Feet</i> 612.13
Whitton, 1.2 mi. SE. of, 215 ft. SE. of milepost 157, on SE. end of SW. head wall of concrete R. R. culvert 156-97; chiseled square-----	604.46
Whitton, 2.2 mi. SE. of, in E½ sec. 33, T. 26 N., R. 2 E., 425 ft. SE. of milepost 156, 140 ft. S. of S. track, 20 ft. N. of Savanna Proving Grounds R. R., 65 ft. S. of highway, in old N.-S. fence line, in root on NW. side of large forked elm tree; copper nail and washer----	606.49
Whitton, 1.5 mi. S. and 2.0 mi. E. from, in NW¼ sec. 34, T. 26 N., R. 2 E., 23 ft. S. and 35 ft. W. from junction of rd. S., 15 ft. W. of intersection of fence lines S. and W., on N. side of fence, in concrete post; standard tablet stamped "1934 627"-----	627.052
Whitton, 1.2 mi. S. and 3.0 mi. E. from, about 0.2 mi. E. of NW. cor. sec. 35, T. 26 N., R. 2 E., 250 ft. SW. of rd. junction, at SW. end of highway bridge over Apple River, on S. end of E. concrete wing and retaining wall; chiseled square-----	604.78

[Continued in Savanna quadrangle, line 2]

# MONROE QUADRANGLE

[Latitude 42°30'–42°45'; longitude 89°30'–89°45']

## STEPHENSON COUNTY

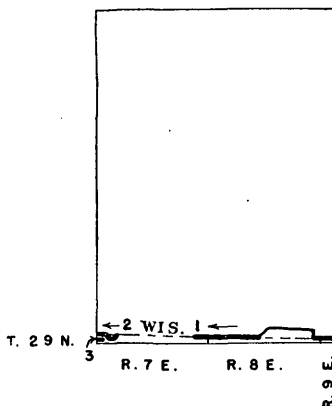


FIGURE 258.—Lines of leveling in Monroe quadrangle.

1. From point on Illinois-Wisconsin State line 0.2 mile east of north quarter corner fractional sec. 19, T. 29 N., R. 9 E., along roads generally west to point on Illinois Central Railroad 2.5 miles north and 0.2 mile west from Orangeville (by R. G. Clinite in 1919; part of line releveled by H. S. Hall in 1941)<sup>60</sup>

[Continued from Wisconsin]

T. 29 N., R. 9 E., 0.2 mi. E. of N¼ cor. sec. 19, near Illinois-Wisconsin State line, 7 ft. S. and 35 ft. W. from junction of T-rd. N., in root of 30-in. cherry tree; copper nail and washer-----	1,004.58
T. 29 N., R. 8 E., 0.2 mi. W. of NE. cor. sec. 24, 250 ft. W. of junction of T-rd. S., 350 ft. E. of right-angle turn N. in rd., on S. side of small bridge, on top of concrete coping; chiseled square-----	1,030.04
T. 1 N., R. 8 E., near E¼ cor. sec. 33, 20 ft. S. and 25 ft. W. from cross-roads; standard iron post with bronze cap stamped "1919 Wis 1048" <sup>60</sup> -----	1,047.225
T. 1 N., R. 8 E., near center of sec. 32, in NE. angle of rd. junction, on top of concrete wall of drain; chiseled square <sup>60</sup> -----	944.08
T. 29 N., R. 8 E., 0.2 mi. W. of NE. cor. fractional sec. 21, 20 ft. S. of junction of E.-W. rd. along Illinois-Wisconsin State line, in root of 20-in. maple tree; copper nail and washer (not recovered in 1941)-----	978.82
T. 1 N., R. 8 E., near SW. cor. sec. 31, 2.5 mi. N. and 2.2 mi. E. from Orangeville, in NE. angle of junction of T-rd. N., 6 ft. N. of fence corner; standard iron post with bronze cap stamped "1919 Wis 874" <sup>60</sup> -----	873.877

<sup>60</sup> That part of line releveled begins with bench mark stamped "1919 1048" and continues through bench mark stamped "Prim Trav Sta No 28 1911 854."

<sup>60</sup> This bench mark is in Wisconsin.

Orangeville, 2.5 mi. N. and 1.5 mi. E. from, 20 ft. S. and 40 ft. W. from NE. cor. sec. 19, T. 29 N., R. 8 E., in SW. angle of junction of T-rd. S., 100 ft. NW. of bridge; standard iron post with bronze cap stamped "Prim Trav Sta No 28 1911 854" <sup>61</sup> -----	Feet 854.205
Orangeville, 2.5 mi. N. and 0.4 mi. E. from, near NE. cor. sec. 24, T. 29 N., R. 7 E., 10 ft. S. and 10 ft. W. from junction of T-rd. S., in root of 16-in. elm tree; copper nail and washer-----	892.02

[Continued in Wisconsin]

2. From Illinois-Wisconsin State line at point 2.5 miles north and 5 miles west from Orangeville along roads southwest 0.6 mile, thence north and west to point 0.8 mile north and 2 miles east from Winslow (by R. G. Clinite in 1919)

[Continued from Wisconsin]

Orangeville, 2.3 mi. N. and 5.0 mi. W. from, 0.6 mi. N. and 2.8 mi. E. from Winslow, 0.2 mi. S. of Illinois-Wisconsin State line, in E. part of fractional sec. 18, T. 29 N., R. 7 E., in NW. angle of junction of E.-W. rd., at SE. corner of cheese factory, on rock; chiseled circle---	879.02
Winslow, 0.8 mi. N. and 2.4 mi. E. from, 0.2 mi. S. and 3.0 mi. E. from Martintown, Wis., 0.15 mi. W. of SE. cor. sec. 35, T. 1 N., R. 6 E., 20 ft. N. of right-angle turn W. in rd., on W. side of private rd. N.; standard iron post with bronze cap stamped "Prim Trav Sta. No 23 1911 880" (recovered in 1934) <sup>62</sup> -----	879.615

[Continued in South Wayne quadrangle, line 1]

3. From point 0.8 mile north and 2 miles east from Winslow along roads east 0.4 mile, thence south 0.2 mile, thence west 0.4 mile (by W. M. Hay and W. J. Drath in 1934)

[Continued from South Wayne quadrangle, line 2]

Winslow, 0.8 mi. N. and 2.1 mi. E. from, 0.1 mi. E. of NW. cor. fractional sec. 18, T. 29 N., R. 7 E., on concrete culvert under State-line rd., on SE. corner of head wall; chiseled square-----	855.87
Winslow, 0.8 mi. N. and 2.3 mi. E. from, near N¼ cor. fractional sec. 18, T. 29 N., R. 7 E., on State-line rd., at 12 ft. bridge, on top near center of S. curb wall; chiseled cross-----	841.32
Winslow, 0.6 mi. N. and 2.2 mi. E. from, 0.25 mi. W. of N¼ cor. sec. 19, T. 29 N., R. 7 E., on SE. corner of S. head wall of concrete culvert; chiseled square-----	814.81

[Connects with line 2 in South Wayne quadrangle]

<sup>61</sup> By comparison with other bench marks in the vicinity, this bench mark is assumed to have been disturbed and raised 0.250 ft. The figures given represent the new elevation.

<sup>62</sup> This bench mark is in Wisconsin.

# MORRIS QUADRANGLE

[Latitude 41°15'–41°30'; longitude 88°15'–88°30']

GRUNDY, KENDALL, AND WILL COUNTIES

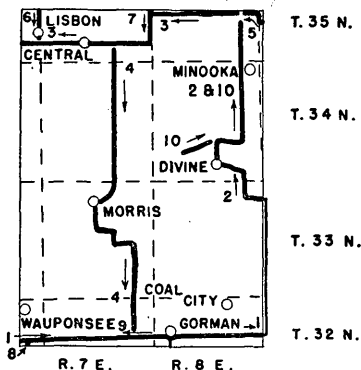


FIGURE 259.—Lines of leveling in Morris quadrangle.

1. From point 1.5 miles south and 0.3 mile west from Wauponsee east along road to point 1.5 miles south and 1.8 miles east from Coal City (by E. C. Bibbee in 1914)

[Connects with line 2 in Marseilles quadrangle]

Wauponsee, 1.5 mi. S. thence 0.8 mi. E. from, 0.2 mi. W. of NE. cor. sec. 13, T. 32 N., R. 6 E., on S. end of W. abutment of bridge over Wauponsee Creek; chiseled square (recovered in 1934)-----	Feet 594.65
Wauponsee, 1.5 mi. S. thence 1.9 mi. E. from, near NW. cor. sec. 17, T. 32 N., R. 7 E., in SE. angle of crossroads, 2 ft. N. and 3 ft. E. from fence corner; standard iron post with bronze cap stamped "599" (recovered in 1941)-----	598.894
Wauponsee, 1.5 mi. S. thence 4.8 mi. E. from, 0.3 mi. S. and 3.1 mi. W. from Gorman, 0.12 mi. W. of SE. cor. sec. 10, T. 32 N., R. 7 E., in NW. angle of crossroads, 20 ft. N. and 2 ft. E. from fence corner; standard iron post with bronze cap stamped "572" <sup>63</sup> (recovered in 1941)-----	571.240
Reference mark, 110 ft. E. of iron post, in root on W. side of 30-in. red-oak tree; copper nail and washer (established in 1936)-----	570.04
Gorman, 0.3 mi. S. and 2.0 mi. W. from, near SE. cor. sec. 11, T. 32 N., R. 7 E., in NW. angle of junction of T-rd. N., 2 ft. E. of N. end of culvert, on sandstone boulder; chiseled square (recovered in 1941);-----	563.05
Gorman, 0.3 mi. S. of, near SW. cor. sec. 8, T. 32 N., R. 8 E., in NE. angle of crossroads, 5 ft. N. and 2 ft. W. from fence corner; standard iron post with bronze cap stamped "558" (recovered in 1941)-----	557.552

<sup>63</sup> In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "T 20 1934," elevation 579.605 ft.

Gorman, 0.3 mi. S. and 3.0 mi. E. from, 1.5 mi. S. of Coal City, near SE. cor. sec. 10, T. 32 N., R. 8 E., in NW. angle of crossroads, 3 ft. N. and 2 ft. E. from fence corner; standard iron post with bronze cap stamped "573" (recovered in 1941)-----	<i>Feet</i> 572.404
Coal City, 1.5 mi. S. and 1.0 mi. E. from, near NW. cor. sec. 13, T. 32 N., R. 8 E., on W. end of N. wing wall of culvert; chiseled square-----	574.20

[Continued in Wilmington quadrangle, line 1]

2. From point 5 miles north of Diamond along roads alternately west and north to Divine, thence north along Elgin, Joliet & Eastern Railway 1.2 miles, thence east and north along roads to crossroads 3 miles north and 0.5 mile west from Minooka (by E. C. Bibbee in 1914)

[Continued from Wilmington quadrangle, line 1]

Diamond, 5.0 mi. N. and 1.0 mi. W. from, 1.7 mi. S. and 1.5 mi. E. from Divine, near SE. cor. sec. 2, T. 33 N., R. 8 E., in NW. angle of crossroads, 2 ft. W. of fence corner, on large boulder; chiseled square-----	508.64
Divine, 1.5 mi. SE. of, near E $\frac{1}{4}$ cor. sec. 35, T. 34 N., R. 8 E., on SW. side of right-angle turn in rd. from N. to W., 2 ft. N. and 2 ft. W. from fence corner; standard iron post with bronze cap stamped "509"-----	507.942
Divine, 0.5 mi. E. of, 0.2 mi. S. of NE. cor. sec. 34, T. 34 N., R. 8 E., 100 ft. W. of fence corner, on large boulder; chiseled square-----	519.70
Divine, in front of sta.; top of rail-----	526.7
Divine, 0.6 mi. N. of, 185 ft. S. of S. end of E. J. & E. Ry. bridge over Illinois River, 10 ft. E. of track, on NW. corner of concrete foundation of signal tower; chiseled square-----	519.26
Illinois River, under R. R. bridge; surface of water Sept. 16, 1914-----	494.4
Divine, 1.2 mi. N. thence 0.4 mi. E. from, 400 ft. N. of SW. cor. sec. 23, T. 34 N., R. 8 E., in NE. angle of rd. fork, 5 ft. N. and 1 ft. W. from fence corner; standard iron post with bronze cap stamped "515" (recovered in 1941)-----	514.364
Divine, 1.2 mi. N. thence 1.0 mi. E. from, 3.5 mi. S. and 0.9 mi. W. from Minooka, in NE $\frac{1}{4}$ sec. 26, T. 34 N., R. 8 E., on N. side of river rd., 0.2 mi. E. of dwelling of Jacob Hanzel, in SW. corner of Dresden Catholic Cemetery, 2 ft. N. of fence, 22.6 ft. SE. of 8-in. boxelder tree; U. S. C. E. B. M. 96 (recovered in 1941)	
cap on iron pipe-----	528.672
bolt in limestone block-----	524.622
Minooka, 0.5 mi. W. thence 3.5 mi. S. from, near NE. cor. sec. 26, T. 34 N., R. 8 E., in NW. angle of rd. junction, 7 ft. SW. of fence corner, in root of 18-in. oak tree; copper nail and washer-----	617.84
Minooka, 0.5 mi. W. thence 0.5 mi. S. from, near NW. cor. sec. 12, T. 34 N., R. 8 E., in SE. angle of crossroads, 13 ft. S. and 2 ft. W. from fence corner; standard iron post with bronze cap stamped "616" (recovered in 1941)-----	615.007
Minooka, 0.5 mi. W. of, crossing of E. J. & E. Ry.; top of rail-----	605.7
Minooka, 0.5 mi. W. of, crossing of Chicago, Rock Island & Pacific Ry.; top of rail-----	603.2
Minooka, 0.5 mi. W. thence 0.3 mi. N. from, 700 ft. S. of NE. cor. sec. 2, T. 34 N., R. 8 E., near center of top of W. parapet of concrete bridge; chiseled square-----	590.85

# 1552 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Minooka, 0.5 mi. W. thence 3.0 mi. N. from, near quarter corner between secs. 23 and 24, T. 35 N., R. 8 E., in NW. angle of crossroads; standard iron post with bronze cap stamped "596" (recovered in 1941) -----	<i>Feet</i> 595.145
3. From crossroads 3 miles north and 0.5 mile west from Minooka along roads alternately west and south to point 0.5 mile south and 1 mile west from Lisbon (by E. C. Bibbee in 1914)	
Minooka, 3.0 mi. N. and 1.5 mi. W. from, 40 ft. E. of W¼ cor. sec. 23, T. 35 N., R. 8 E., on N. end of W. abutment of iron bridge; chiseled square -----	565.80
T. 35 N., R. 8 E., 0.25 mi. E. of center of sec. 21, on N. side of rd., at junction of T-rd. S., 2 ft. N. of fence, on sandstone boulder; chiseled square -----	578.12
T. 35 N., R. 8 E., near W¼ cor. sec. 21, in SE. angle of crossroads, 2 ft. N. and 5 ft. E. from fence corner; standard iron post with bronze cap stamped "582" -----	581.424
T. 35 N., R. 7 E., near NE. cor. sec. 25, 3.5 mi. E. and 1.0 mi. N. from Central, 2.8 mi. S. and 0.7 mi. E. from Platteville, at NW. corner of bridge, on N. end of wing wall; chiseled square -----	574.61
Central, 3.5 mi. E. of, near SE. cor. sec. 25, T. 35 N., R. 7 E., in NW. angle of crossroads, 2 ft. SE. of fence corner; standard iron post with bronze cap stamped "574" (recovered in 1923) -----	573.994
Central, 1.5 mi. E. of, 80 ft. E. of NW. cor. sec. 35, T. 35 N., R. 7 E., in SE. angle of crossroads, 4 ft. S. of E.-W. fence, in root of 48-in. poplar tree; copper nail and washer -----	610.07
Central, 0.5 mi. E. of, near NW. cor. sec. 34, T. 35 N., R. 7 E., in SE. angle of crossroads, 2 ft. N. and 15 ft. E. from fence corner; standard iron post with bronze cap stamped "610" <sup>64</sup> -----	609.377
Reference mark, 15 ft. N. and 100 ft. W. from iron post, on E. side of State Highway 47, on S. head wall of concrete culvert under rd E.; chiseled square (established in 1936) -----	610.44
Central, 1.5 mi. W. of, 0.5 mi. S. and 1.0 mi. E. from Lisbon, 8 ft. E. of NW. cor. sec. 32, T. 35 N., R. 7 E., on S. side of rd., at fence line, on large boulder; chiseled square -----	623.33
Lisbon, 0.5 mi. S. of, near SE. cor. sec. 25, T. 35 N., R. 6 E., in NW. angle of crossroads, 5 ft. S. of fence corner; standard iron post with bronze cap stamped "671" (recovered in 1923) -----	670.659
[Continued in Marselles quadrangle, line 6]	
4. From crossroads 1.5 miles east of Central generally south along roads by way of Morris to road junction 0.3 mile south and 2 miles west from Gorman (by E. C. Bibbee in 1914)	
Central, 1.5 mi. E. thence 1.0 mi. S. from, 1.5 mi. along Grundy-Kendall county-line rd. E. of Saratoga, near NE. cor. sec. 3, T. 34 N., R. 7 E., in SW. angle of crossroads, on parapet at S. end of concrete culvert; chiseled square -----	592.76
Central, 1.5 mi. E. thence 2.0 mi. S. from, 6.0 mi. N. and 1.0 mi. E. from Grundy County courthouse at Morris, near SE. cor. sec. 3, T. 34 N., R. 7 E., in NW. angle of crossroads, 5 ft. N. and 2 ft. E. from fence corner; standard iron post with bronze cap stamped "582" -----	581.631
Morris, 4.0 mi. N. and 1.0 mi. E. from, 100 ft. N. of SE. cor. sec. 15, T. 34 N., R. 7 E., at fence line, on large boulder; chiseled square -----	553.31

<sup>64</sup> In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "N 20 1934," elevation 590.222 ft.

Morris, 3.0 mi. N. and 1.0 mi. E. from, near SE. cor. sec. 22, in NW. angle of crossroads, 1 ft. S. of fence corner, on large boulder; chiseled square-----	<i>Feet</i> 550.45
Morris, 2.6 mi. N. and 1.0 mi. E. from, 0.1 mi. N. of E $\frac{1}{4}$ cor. sec. 27, T. 34 N., R. 7 E., in SW. angle of intersection of Ridge rd., 2 ft. N. of NE-SW. fence; standard iron post with bronze cap stamped "549"-----	548.540
Morris, 2.0 mi. N. and 1.0 mi. E. from, near NW. cor. sec. 35, T. 34 N., R. 7 E., in SE. angle of junction of T-rd. E., 25 ft. S. of fence corner, at fence line, on sandstone boulder; chiseled square-----	524.33
Morris, 5 ft. W. of NE. corner of Grundy County courthouse; standard iron post with bronze cap stamped "519" (recovered by U. S. C. & G. S. in 1934)-----	518.867
Morris, at N. abutment of highway bridge over Illinois River, in NE. end stone of seventh course down from top of E. wing wall; copper bolt (U. S. C. E. B. M. 92; recovered by U. S. C. & G. S. in 1935)-----	503.605
Illinois River, under bridge; surface of water Sept. 26, 1914-----	485.3
Morris, 1.5 mi. S. of, near W $\frac{1}{4}$ cor. sec. 15, T. 33 N., R. 7 E., at junction of T-rd. E., 2 ft. N. and 25 ft. E. from fence corner, on large boulder; chiseled square-----	526.57
Morris, 2.2 mi. S. and 1.0 mi. E. from, 0.25 mi. S. of NW. cor. sec. 23, T. 33 N., R. 7 E., in SE. angle of rd. junction, on S. side of E-W. rd., 2 ft. N. of fence; standard iron post with bronze cap stamped "550"-----	549.377
Morris, 2.2 mi. S. and 2.0 mi. E. from, 0.25 mi. S. of NW. cor. sec. 24, T. 33 N., R. 7 E., on E. side of rd., in line with rd. W., 5 ft. W. of fence, on large flat granite boulder; chiseled square-----	546.16
Morris, 3.5 mi. S. and 2.0 mi. E. from, near Plum School, near W $\frac{1}{4}$ cor. sec. 25, T. 33 N., R. 7 E., on E. side of rd., in line with rd. W., 1 ft. S. and 1 ft. W. from fence corner, on sandstone boulder; chiseled square-----	553.03
Morris, 4.5 mi. S. and 2.0 mi. E. from, near W $\frac{1}{4}$ cor. sec. 36, T. 33 N., R. 7 E., 2 ft. W. of fence corner, on sandstone boulder; chiseled square-----	551.01
Morris, 5.0 mi. S. and 2.0 mi. E. from, 0.5 mi. N. and 5.0 mi. W. from Coal City, 1.7 mi. N. and 2.0 mi. W. from Gorman, near NE. cor. sec. 2, T. 32 N., R. 7 E., in SW. angle of crossroads, 4 ft. S. and 2 ft. E. from fence corner; standard iron post with bronze cap stamped "558" <sup>65</sup> -----	557.568

5. From point in southwest quarter sec. 19, T. 35 N., R. 9 E., along roads alternately west and north 1.7 miles to crossroads 3 miles north and 0.5 mile west from Minooka (by R. G. Clinite in 1915; leveled twice)

[Continued from Wilmington quadrangle, line 4]

Minooka, 3.0 mi. N. and 0.5 mi. E. from, near E $\frac{1}{4}$ cor. sec. 24, T. 35 N., R. 8 E., in SW. angle of junction of T-rd. W., 1 ft. NE. of fence corner, on top of boulder; highest point in chiseled square-----	633.01
--	--------

6. From point 3.1 miles south of Helmar south along range-line road to crossroads 0.5 mile south of Lisbon (by S. R. Archer in 1923)

[Continued from Yorkville quadrangle, line 1]

<sup>65</sup> In 1942 it was reported that the iron post was out of plumb.

# 1554 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Lisbon, 1.0 mi. N. of, 3.5 mi. S. of Helmar, 40 ft. S. and 30 ft. E. from W¼ cor. sec. 19, T. 35 N., R. 7 E., 40 ft. S. and 30 ft. E. from bridge, on E. side of rd., at fence line, in root on SW. side of 24-in. elm tree; copper nail and washer-----	<i>Feet</i> 656.20
Lisbon, near center of village, in NE. angle of street intersection, in SW. corner of schoolyard, in root on SE. side of 36-in. maple tree; copper nail and washer-----	671.36
Lisbon, in S. part of village, in NW. angle of crossroads, in root on E. side of 48-in. maple tree; copper nail and washer-----	667.39
7. From point 2.1 miles south and 0.7 mile east from Platteville south along range-line road 1.7 miles to crossroads 3.5 miles east of Central (by G. F. Williams in 1923; leveled twice)	
[Continued from Yorkville quadrangle, line 4]	
Central, 3.5 mi. E. thence 1.5 mi. N. from, 2.3 mi. S. and 0.7 mi. E. from Platteville, near E¼ cor. sec. 24, T. 35 N., R. 7 E., on W. side of rd., 50 ft. S. of fence corner, in root on SE. side of forked boxelder tree; copper nail and washer-----	590.26
Central, 3.5 mi. E. thence 0.5 mi. N. from, near W¼ cor. sec. 30, T. 35 N., R. 8 E., on E. side of rd., 40 ft. N. of junction of lane W., 4 ft. NE. of SW. corner of picket fence around yard of farmhouse, in root on W. side of 14-in. poplar tree; copper nail and washer-----	584.38
8. From point 1.5 miles south and 0.3 mile west from Wauponsee along roads east and south to point 1.8 miles south of Wauponsee (by George Adgate in 1934)	
[Connects with line 2 in Marseilles quadrangle]	
Wauponsee, 1.5 mi. S. of, near NE. cor. sec. 14, T. 32 N., R. 6 E., 100 ft. S. and 30 ft. W. from crossroads; top of iron pipe-----	621.48
[Continued in Dwight quadrangle, line 2]	
9. From point 1.5 miles south and 1.8 miles east from Coal City west along road to crossroads 0.3 mile south and 3.1 miles west from Gorman (by H. S. Hall in 1941)	
[Connects with line 1 in Wilmington quadrangle]	
Coal City, 1.5 mi. S. thence 1.0 mi. W. from, near NE. cor. sec. 16, T. 32 N., R. 8 E., 18 ft. S. and 21 ft. W. from crossroads, on NE. corner of concrete base of corner marker; chiseled square-----	567.20
Coal City, 1.5 mi. S. thence 2.0 mi. W. from, 0.3 mi. S. and 1.0 mi. E. from Gorman, near NW. cor. sec. 16, T. 32 N., R. 8 E., 30 ft. S. and 12 ft. E. from crossroads, on S. end of E. wall of concrete culvert; chiseled square-----	562.52
Gorman, 0.3 mi. S. and 1.0 mi. W. from, 20 ft. S. of NW. cor. sec. 18, T. 32 N., R. 8 E., at fence line, on sandstone rock; chiseled square <sup>66</sup> ----	556.96
10. From point on Illinois and Michigan Canal 5.5 miles northeast of Morris along river road northeast 3.4 miles, thence north to crossroads 3 miles north and 0.5 mile west from Minooka (by H. S. Hall in 1941)	
Morris, 5.5 mi. NE. of, 0.2 mi. W. of E¼ cor. sec. 29, T. 34 N., R. 8 E., at Aux Sable Creek, in yard of dwelling of keeper of lock 8 of Illinois and Michigan Canal, nearly opposite lower gates of lock, 36.8 ft. S. of center of quoin post of S. lower gate; U. S. C. E. B. M. 95 <sup>66a</sup> cap on iron pipe-----	511.269
bolt in limestone block-----	507.309

<sup>66</sup> Supersedes a bench mark established at this location in 1914, line 1.

<sup>66a</sup> In 1934 it was reported that the cap had been removed and the pipe broken off flush with the ground. The underground mark is probably still intact.

Morris, 5.7 mi. NE. of, 4.7 mi. SW. of Channahon, in NE $\frac{1}{4}$  sec. 28, T. 34 N., R. 8 E., 0.5 mi. W. of Elgin, Joliet & Eastern Ry., 0.2 mi. SW. of marked angle in river rd., on N. side of rd., 2 ft. W. of section-line fence, on 36- by 33-in. granite boulder 18 in. above ground; highest point in chiseled square (U. S. C. E. T. B. M. 405)<sup>67</sup> -----  
 Channahon, 2.3 mi. W. of, 0.5 mi. W. thence 2.5 mi. S. from Minooka, near NW. cor. sec. 24, T. 34 N., R. 8 E., on U. S. Highway 6, 15 ft. S and 15 ft. E. from crossroads, on W. end of S. concrete culvert; chiseled square -----

*Feet*  
 509.303

612.64

<sup>67</sup> As the elevation determined for this bench mark in 1941 is 508.805 ft., it is not certain whether the chiseled square is U. S. C. E. T. B. M. 405, disturbed 0.498 ft., or a similar mark.

# MORRISON QUADRANGLE

[Latitude 41°45'–42°00' ; longitude 89°45'–90°00']

## CARROLL AND WHITESIDE COUNTIES

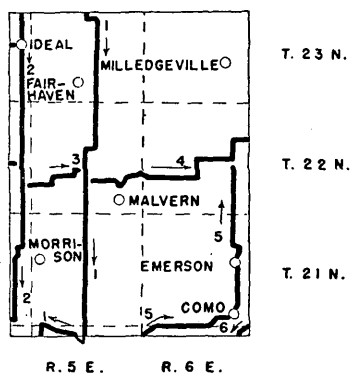


FIGURE 260.—Lines of leveling in Morrison quadrangle.

1. From point 0.8 mile south and 1.7 miles west from Chadwick along roads south to road junction 2.2 miles north of Lyndon, thence northwest to highway junction 3.5 miles south of Morrison, thence south 0.5 mile along State Highway 78 (by H. S. Seneseny in 1927)

[Connects with line 1 in Mount Carroll quadrangle]

Chadwick, 1.7 mi. W. thence 1.0 mi. S. from, 0.5 mi. E. and 3.5 mi. N. from Fairhaven, near W $\frac{1}{4}$ cor. sec. 10, T. 23 N., R. 5 E., in SE. angle of crossroads, in root of tree; copper nail and washer-----	890.17
Fairhaven, 1.0 mi. E. thence 3.5 mi. N. from, near center of sec. 10, T. 23 N., R. 5 E., in SE. angle of junction of T-rd. S., in root of tree; copper nail and washer-----	890.12
Fairhaven, 1.0 mi. E. thence 2.0 mi. N. from, near N $\frac{1}{4}$ cor. sec. 22, T. 23 N., R. 5 E., in SW. angle of crossroads, in root of tree; copper nail and washer-----	862.67
Fairhaven, 1.0 mi. E. thence 1.0 mi. N. from, 3.0 mi. N. of Franklin Corners, near S $\frac{1}{4}$ cor. sec. 22, T. 23 N., R. 5 E., 55 ft. W. of crossroads, on N. side of rd., in concrete post; standard tablet stamped "17 S 1927"-----	850.861
Reference mark, 33.4 ft. SE. of tablet, on culvert; chiseled square----	848.40
Fairhaven, 1.0 mi. E. of, 2.0 mi. N. of Franklin Corners, near N $\frac{1}{4}$ cor. sec. 34, T. 23 N., R. 5 E., in SE. angle of crossroads, in root of tree; copper nail and washer-----	805.71
Franklin Corners, 1.0 mi. N. of, near N $\frac{1}{4}$ cor. sec. 3, T. 22 N., R. 5 E., in SE. angle of crossroads, in root of tree; copper nail and washer--	758.67
Franklin Corners, in SE. angle of crossroads, at NW. corner of United Brethren Church, in concrete post; standard tablet stamped "16 S 1927"-----	782.305

Reference mark, 170 ft. NW. of tablet, in root of tree; copper nail and washer-----	Feet 779.34
Franklin Corners, 1.5 mi. S. of, near center of sec. 15, T. 22 N., R. 5 E., 210 ft. N. of junction of E.-W. rd., on W. side of rd., on culvert; chiseled square-----	730.14
Franklin Corners, 1.5 mi. S. thence 0.5 mi. W. from, near W $\frac{1}{4}$ cor. sec. 15, T. 22 N., R. 5 E., 105 ft. NE. of crossroads, in root of tree; copper nail and washer-----	747.14
Franklin Corners, 2.7 mi. S. and 0.5 mi. W. from, 4.8 mi. N. and 2.5 mi. E. from Morrison, 0.25 mi. N. of SE. cor. sec. 21, T. 22 N., R. 5 E., on W. side of rd., 65 ft. N. of T.-rd. W., in concrete post; standard tablet stamped "15 S 1927"-----	676.300
Reference mark, 30 ft. N. of tablet, in root of tree; copper nail and washer-----	677.50
Morrison, 4.3 mi. N. and 2.5 mi. E. from, 0.25 mi. S. of NE. cor. sec. 28, T. 22 N., R. 5 E., on W. side of rd., opposite T.-rd. E., in root of tree; copper nail and washer-----	663.94
Morrison, 3.0 mi. N. and 2.5 mi. E. from, near W $\frac{1}{4}$ cor. sec. 34, T. 22 N., R. 5 E., in NE. angle of crossroads, in root of tree; copper nail and washer-----	710.75
Morrison, 2.0 mi. N. and 2.5 mi. E. from, near W $\frac{1}{4}$ cor. sec. 3, T. 21 N., R. 5 E., 150 ft. N. of crossroads, on E. side of rd., on culvert; chiseled square-----	679.60
Morrison, 1.5 mi. N. and 2.5 mi. E. from, near NW. cor. sec. 10, T. 21 N., R. 5 E., 170 ft. S. of crossroads, 35 ft. E. of rd, in concrete post; standard tablet stamped "18 S 1927"-----	716.405
Reference mark, 51 ft. NW. of tablet, on NW. corner of concrete walk; chiseled square-----	714.64
Morrison, 0.5 mi. N. and 2.5 mi. E. from, near SW. cor. sec. 10, T. 21 N., R. 5 E., in NE. angle of crossroads, on culvert; chiseled square-----	664.96
Morrison, 0.5 mi. S. and 2.5 mi. E. from, near NW. cor. sec. 22, T. 21 N., R. 5 E., in SE. angle of intersection of U. S. Highway 30 (State Highway 6), on culvert; chiseled square <sup>68</sup> -----	658.77
Morrison, 1.5 mi. S. and 2.5 mi. E. from, 165 ft. S. of NE. cor. sec. 28, T. 21 N., R. 5 E., on W. side of rd., in concrete post; standard tablet stamped "19 S 1927" <sup>68</sup> -----	686.016
Reference mark, 65 ft. SE. of tablet, in root of tree; copper nail and washer-----	684.95
Morrison, 2.5 mi. S. and 2.5 mi. E. from, near NE. cor. sec. 33, T. 21 N., R. 5 E., in SW. angle of crossroads, in root of tree; copper nail and washer-----	673.78
Morrison, 3.5 mi. S. and 2.5 mi. E. from, 3.0 mi. N. of Lyndon, near SW. cor. sec. 34, T. 21 N., R. 5 E., 23 ft. N. of section-line fence, on E. side of rd., in root of tree; copper nail and washer-----	661.04

[Jogs into Prophetstown quadrangle, line 1]

Lyndon, 2.2 mi. N. thence 1.5 mi. NW. from, 3.5 mi. S. thence 1.2 mi. SE. from Morrison, at Richman School, 0.25 mi. N. of center of sec. 5, T. 20 N., R. 5 E., in NE. angle of junction of rd. N., in root of tree; copper nail and washer-----	666.81
--	--------

<sup>68</sup> In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "W 47 1934," elevation 663.860 ft.

# 1558 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Morrison, 3.5 mi. S. of, near N¼ cor. sec. 6, T. 20 N., R. 5 E., 8 ft. S. and 33 ft. W. from junction of State Highway 78, 540 ft. NW. of residence of John Bentner, in concrete post; standard tablet stamped "T T Sta No 79 JLS 1927"-----	<i>Feet</i> 624.982
Reference mark, 20 ft. SE. of tablet, on culvert; chiseled square-----	624.24

[Continued in Prophetstown quadrangle, line 2]

2. From point 1.7 miles north of Ideal south along roads to point 3.3 miles south and 1.6 miles west from Morrison (by J. A. Shumate in 1927)

[Connects with line 1 in Mount Carroll quadrangle]

Ideal, 1.0 mi. N. of, near S¼ cor. sec. 12, T. 23 N., R. 4 E., 15 ft. N. and 28 ft. E. from crossroads, 1 ft. S. of telephone pole, 1 in. above ground; iron T-bar. -----	806.75
Ideal, in NW. angle of crossroads, 36.6 ft. N. and 26.8 ft. W. from steel marker at quarter corner between secs. 13 and 24, T. 23 N., R. 4 E., 7 ft. S. and 16 ft. E. from SE. corner of residence of R. Gleason, 13 ft. N. and 6.5 ft. W. from N. end of W. head wall of concrete culvert, 8 in. underground, in concrete post; standard tablet stamped "T T No 68 JLS 859" (recovered in 1934)-----	859.584
Reference mark, 100 ft. SE. of tablet, on S. end of bottom step of church porch; chiseled square (recovered in 1934)-----	864.98
Ideal, 1.0 mi. S. of, near S¼ cor. sec. 24, T. 23 N., R. 4 E., 22 ft. N. and 160 ft. W. from crossroads, in root on E. side of 18-in. maple tree; copper nail and washer-----	820.64
Ideal, 2.0 mi. S. of, 3.0 mi. W. of Fairhaven, near S¼ cor. sec. 25, T. 23 N., R. 4 E., 35 ft. N. and 29 ft. W. from crossroads, 1 ft. E. of fence corner; iron T-bar-----	783.22
Ideal, 3.0 mi. S. of, 3.2 mi. N. of Ustick, near N¼ cor. sec. 1, T. 22 N., R. 4 E., 30 ft. S. and 30 ft. E. from junction of T-rd. E. along Carroll-Whiteside county line, in concrete post; standard tablet stamped "T T Sta No. 67 JLS 1927"-----	790.500
Reference mark, 65 ft. S.70°W. from tablet, in root on NE. side of 28-in. cottonwood tree; copper nail and washer-----	790.32
Ustick, 2.2 mi. N. of, near N¼ cor. sec. 12, T. 22 N., R. 4 E., in SW. angle of crossroads, in root on E. side of 18-in. maple tree; copper nail and washer-----	742.05
Ustick, 1.2 mi. N. of, near S¼ cor. sec. 12, T. 22 N., R. 4 E., 135 ft. N. and 30 ft. E. from crossroads, in root on W. side of 12-in. maple tree; copper nail and washer-----	713.81
Ustick, 30 ft. N. and 30 ft. E. from junction of T-rd. W., 5.3 mi. N. and 1.0 mi. W. from Morrison, 30 ft. N. and 30 ft. E. from junction of private rd. E. to residence of W. Nice, in concrete post; standard tablet stamped "T T Sta No 66 JLS 1927" (recovered in 1941)-----	782.772
Reference mark, 63 ft. S. of tablet, in root on S. side of 12-in. maple tree; copper nail and washer (recovered in 1941)-----	783.63
Ustick, 2.3 mi. S. of, near center of sec. 36, T. 22 N., R. 4 E., 70 ft. N. and 25 ft. E. from junction of T-rd. W., in root on W. side of 10-in. walnut tree; copper nail and washer-----	742.66
Ustick, 2.8 mi. S. of, 2.5 mi. N. and 1.0 mi. W. from Morrison, near N¼ cor. sec. 1, T. 21 N., R. 4 E., 15 ft. S. and 25 ft. E. from junction of T-rd. W., in concrete post; standard tablet stamped "T T Sta No 65 JLS 1927"-----	731.207

Reference mark, 49 ft. N.55°W. from tablet, on N. head wall of concrete culvert; chiseled square -----	<i>Feet</i> 732.67
Morrison, 2.0 mi. N. and 1.0 mi. W. from, near center of sec. 1, T. 21 N., R. 4 E., in SE. angle of rd. junction, in root on S. side of 24-in. cherry tree; copper nail and washer -----	697.70
Morrison, 1.0 mi. N. and 1.0 mi. W. from, 0.5 mi. NW. of Unionville, near center of sec. 12, T. 21 N., R. 4 E., 60 ft. N. and 40 ft. E. from junction of U. S. Highway 30, in root on E. side of 24-in. maple tree; copper nail and washer -----	644.32
Morrison, 0.7 mi. N. and 1.2 mi. W. from, 0.6 mi. W. of Unionville, near center of SW¼ sec. 12, T. 21 N., R. 4 E., at junction of T-rd. S., 55 ft. NW. of R. R. crossing, on S. corner of concrete base of signal tower; chiseled square <sup>69</sup> -----	656.79
Morrison, 0.7 mi. S. and 1.5 mi. W. from, 0.25 mi. S. of NE. cor. sec. 23, T. 21 N., R. 4 E., 30 ft. N. and 30 ft. W. from crossroads, inside fence, in concrete post; standard tablet stamped "T T Sta No 64 JLS 1927" -----	715.335
Reference mark, 95 ft. N. of tablet, in root on W. side of twin 8-in. cherry tree; copper nail and washer -----	718.90
Morrison, 1.5 mi. S. and 1.5 mi. W. from, near SE. cor. sec. 23, T. 21 N., R. 4 E., 12 ft. N. and 55 ft. W. from crossroads, in root on N. side of 12-in. cherry tree; copper nail and washer -----	660.78
Morrison, 2.5 mi. S. and 1.5 mi. W. from, at Delhi School, near SW. cor. sec. 25, T. 21 N., R. 4 E., in NE. angle of crossroads, in corner of schoolyard, in root on N. side of 12-in. cherry tree; copper nail and washer -----	656.23
Morrison, 3.3 mi. S. and 1.5 mi. W. from, 0.25 mi. N. of SE. cor. sec. 35, T. 21 N., R. 4 E., 6 ft. S. and 27 ft. W. from junction of T-rd. W., in concrete post; standard tablet stamped "T T Sta No 63 JLS 1927" -----	628.666
Reference mark, 130 ft. S. of tablet, in root on E. side of 12-in. elm tree; copper nail and washer -----	626.41

[Continued in Clinton quadrangle, line 2]

3. From crossroads 1.3 miles south of Ustick alternately east and north along roads to point 4.8 miles north and 2.5 miles east from Morrison (by J. A. Shumate in 1927)

Ustick, 1.3 mi. S. thence 1.0 mi. E. from, 4.0 mi. N. of Morrison, at West Clyde School, near center of sec. 30, T. 22 N., R. 5 E., 35 ft. S. and 50 ft. W. from crossroads, in schoolyard, in root on N. side of 14-in. elm tree; copper nail and washer -----	759.80
Morrison, 4.0 mi. N. and 0.8 mi. E. from, 0.25 mi. W. of center of sec. 29, T. 22 N., R. 5 E., 245 ft. N. and 10 ft. E. from junction of N.-S. rd., on E. concrete rail of bridge; chiseled square -----	682.48
Morrison, 4.5 mi. N. and 0.8 mi. E. from, 0.25 mi. W. of quarter corner between secs. 20 and 29, T. 22 N., R. 5 E., 70 ft. W. of junction of T-rd. E., in root on S. side of 20-in. maple tree; copper nail and washer -----	746.42
Morrison, 4.5 mi. N. and 1.3 mi. E. from, at South Clyde School, 0.25 mi. W. of NE. cor. sec. 29, T. 22 N., R. 5 E., 30 ft. S. and 30 ft. W. from crossroads, in NE. corner of schoolyard, in concrete post; standard tablet stamped "T T Sta No 88 JLS 1927" -----	731.380

<sup>69</sup> In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "T 47 1934," elevation 657.089 ft.

# 1560 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Reference mark, 26 ft. S. of tablet, in root on N. side of 12-in. cottonwood tree; copper nail and washer-----	<i>Feet</i> 730.51
4. From road junction 4.3 miles north and 2.5 miles east from Morrison alternately east and north along roads to point 2.7 miles east of Coleta (by J. A. Shumate in 1927)	
Morrison, 4.3 mi. N. and 3.7 mi. E. from, 1.0 mi. N. and 0.5 mi. W. from Malvern, near center of NW¼ sec. 26, T. 22 N., R. 5 E., at jog in rd., 35 ft. W. of junction of rd. N., in concrete post; standard tablet stamped "T T Sta No 87 JLS 1927"-----	657.740
Malvern, 0.7 mi. N. of, about 0.2 mi. W. of E¼ cor. sec. 26, T. 22 N., R. 5 E., 190 ft. NW. of rd. fork, 110 ft. S. of mill, in root on W. side of 20-in. oak tree; copper nail and washer-----	654.56
Malvern, 1.3 mi. N. and 0.5 mi. E. from, 0.25 mi. W. of quarter corner between secs. 24 and 25, T. 22 N., R. 5 E., 14 ft. N. and 10 ft. W. from rd. junction, 1 ft. S. of telephone pole; steel T-bar-----	721.45
Malvern, 1.4 mi. N. and 1.2 mi. E. from, 0.15 mi. N. of SE. cor. sec. 24, T. 22 N., R. 5 E., 25 ft. N. and 75 ft. W. from junction of N.-S. rd., in root on S. side of 10-in. oak tree; copper nail and washer-----	761.54
Malvern, 1.3 mi. N. and 2.0 mi. E. from, 0.2 mi. W. of E. cor. secs. 19 and 30, T. 22 N., R. 6 E., on E. side of rd., opposite rd. W., 1 ft. W. of telephone pole; steel T-bar-----	772.54
Malvern, 1.3 mi. N. and 2.7 mi. E. from, 2.0 mi. S. thence 1.5 mi. W. from Coleta, near S¼ cor. sec. 20, T. 22 N., R. 6 E., 20 ft. N. and 30 ft. W. from junction of T-rd. E., 80 ft. NE. of residence of H. Stinemayer, near fence, in concrete post; standard tablet stamped "T T Sta No 86 JLS 1927"-----	788.906
Reference mark, 50 ft. S.10°W. from tablet, in root on N. side of 24-in. maple tree; copper nail and washer-----	788.21
Coleta, 2.0 mi. S. thence 0.8 mi. W. from, 0.25 mi. E. of SW. cor. sec. 21, T. 22 N., R. 6 E., 23 ft. N. and 28 ft. E. from junction of T-rd. S., 1 ft. S. of telephone pole; iron T-bar-----	803.95
Coleta, 2.0 mi. S. of, near NE. cor. sec. 28, T. 22 N., R. 6 E., 20 ft. S. and 55 ft. W. from junction of N.-S. rd., in root on NE. side of 15-in. cottonwood tree; copper nail and washer-----	776.07
Coleta, 1.0 mi. S. of, near NW. cor. sec. 22, T. 22 N., R. 6 E., 30 ft. S. and 30 ft. E. from crossroads, in root on NE. side of 15-in. maple tree; copper nail and washer-----	809.31
Coleta, 1.0 mi. S. thence 1.0 mi. E. from, near NW. cor. sec. 23, T. 22 N., R. 6 E., 50 ft. S. and 25 ft. E. from crossroads, in root on N. side of second cottonwood tree from end of row; copper nail and washer-----	794.69
Coleta, 1.0 mi. S. thence 2.0 mi. E. from, near SE. cor. sec. 14, T. 22 N., R. 6 E., 28 ft. N. and 50 ft. W. from crossroads, in root on S. side of 12-in. pine tree; copper nail and washer-----	767.58
Coleta, 2.0 mi. E. of, near NW. cor. sec. 13, T. 22 N., R. 6 E., 170 ft. S. of crossroads, on top near center of E. head wall of concrete culvert; chiseled square-----	787.80

[Continued in Woosung quadrangle, line 3]

5. From point on Chicago, Burlington & Quincy Railroad 0.2 mile southwest of Sands northeast along railroad 1 mile, thence along roads east and northeast to Como, thence north to crossroads 1 mile south and 2 miles east from Coleta (by H. S. Senseney in 1927)

[Continued from Prophetstown quadrangle, line 3]

Sands, 70 ft. N. of sta., 143 ft. NE. of rd. crossing, in concrete post; standard tablet stamped "T T Sta No 81 JLS 1927"-----	<i>Feet</i> 628.598
Reference mark, 220 ft. SW. of tablet, in root of tree; copper nail and washer-----	627.96
Sands, 0.8 mi. NE. thence 0.3 mi. E. from, near NW. cor. sec. 5, T. 20 N., R. 6 E., 410 ft. E. of junction of T-rd. N., on S. side of rd., in root of tree; copper nail and washer-----	630.96
Sands, 0.8 mi. NE. thence 1.3 mi. E. from, near SE. cor. sec. 32, T. 21 N., R. 6 E., in NW. angle of crossroads, 2 ft. W. of fence corner; cap on 1-in. iron pipe-----	626.64
Sands, 0.8 m. NE. thence 2.3 mi. E. from, near SE cor. sec. 33, T. 21 N., R. 6 E., in NW. angle of junction of T-rd. N., in root of tree; copper nail and washer-----	629.83
Sands, 0.8 mi. NE. thence 2.8 mi. E. from, 2.1 mi. SW. of Como, near quarter corner between secs. 3 and 34, Tps. 20 and 21 N., R. 6 E., 54 ft. E. of junction of State Highway 2, near residence of Roy Mellott, in concrete post; standard tablet stamped "T T Sta No 82 JLS 1927"-----	628.165
Reference mark, 80 ft. NW. of tablet, on SE. corner of concrete walk; chiseled square-----	627.27
Como, 1.2 mi. SW. of, about 0.1 mi. E. of W $\frac{1}{4}$ cor. sec. 35, T. 21 N., R. 6 E., 125 ft. N. of junction of rd. NW., on E. side of rd., in root of tree; copper nail-----	615.14
Como, near W. edge of, 0.5 mi. SW. of turn N. in State Highway 2, 145 ft. E. of rd. junction, on S. side of rd., in root of tree; copper nail-----	622.82
Como, 30 ft. E. of junction of highway and rd. SE., 1.3 mi. S. of Galt, at bend N. in highway, in concrete post; standard tablet stamped "T T Sta No 83 JLS 1927"-----	630.648
Reference mark, 690 ft. N. of tablet, on E. side of rd., in root of cedar tree; copper nail and washer-----	633.98
Galt, 270 ft. N. of R. R., 90 ft. S. of crossroads, on W. side of rd., in root of tree; copper nail and washer <sup>70</sup> -----	639.30
Galt, 0.7 mi. N. of, 0.7 mi. S. of Emerson, in NW $\frac{1}{4}$ sec. 24, T. 21 N., R. 6 E., on W. side of rd., just S. of junction of U. S. Highway 30, on culvert; chiseled square-----	637.83
Emerson, in NW. angle of crossroads, at Lutheran Church, in root of tree; copper nail and washer-----	657.27
Emerson, 1.0 mi. N. of, near center of SW $\frac{1}{4}$ sec. 12, T. 21 N., R. 6 E., in SE. angle of junction of E.-W. rd., in root of tree; copper nail and washer-----	668.87
Emerson, 1.0 mi. N. thence 0.2 mi. W. from, 2.0 mi. E. thence 5.7 mi. S. from Coleta, 0.25 mi. N. of SE. cor. sec. 11, T. 21 N., R. 6 E., 45 ft. N. and 30 ft. W. from junction of T-rd. N., in concrete post; standard tablet stamped "T T Sta No 84 JLS 1927"-----	651.257

<sup>70</sup> In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "A 48 1934," elevation 638.385 ft.

# 1562 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Coleta, 2.0 mi. E. thence 4.3 mi. S. from, 0.3 mi. S. of NW. cor. sec. 1, T. 21 N., R. 6 E., at NE. corner of steel bridge, in top of pier; bolt---	<i>Feet</i> 674.14
Coleta, 2.0 mi. E. thence 4.0 mi. S. from, near SE. cor. sec. 35, T. 22 N., R. 6 E., in NW. angle of crossroads, in root of tree; copper nail and washer-----	705.55
Coleta, 2.0 mi. E. thence 3.0 mi. S. from, near NE. cor. sec. 35, T. 22 N., R. 6 E., in SW. angle of crossroads, in front of church, on NE. corner of concrete walk; chiseled square-----	746.46
Coleta, 2.0 mi. E. thence 2.0 mi. S. from, near SW. cor. sec. 24, T. 22 N., R. 6 E., 25 ft. N. and 25 ft. E. from crossroads, inside fence, in con- crete post; standard tablet stamped "T T Sta No 85 JLS 1927"-----	728.750
Reference mark, 60 ft. SW. of tablet, on SW. corner of culvert; chiseled square-----	730.14

6. From point 2.8 miles southwest of Rock Falls southwest 0.9 mile  
along road to point 1.3 miles south and 0.1 mile west from  
Como (by H. S. Senseney in 1927)

[Continued from Woosung quadrangle, line 2]

Rock Falls, 3.3 mi. SW. of, 1.0 mi. S. and 0.2 mi. E. from Como, about 0.2 mi. N. of center of sec. 1, T. 20 N., R. 6 E., 20 ft. N. and 50 ft. E. from crossroads, in concrete post; standard tablet stamped "21 S 1927" (recovered in 1930)-----	617.712
Reference mark, 165 ft. W. of tablet, inside gate, near hinges, on SW. corner of concrete walk; chiseled square (recovered in 1930)-----	619.46

[Continued in Prophetstown quadrangle, line 4]

# MOUNT CARROLL QUADRANGLE

[Latitude 42°00'–42°15'; longitude 89°45'–90°00']

CARROLL, JO DAVIESS, AND STEPHENSON COUNTIES

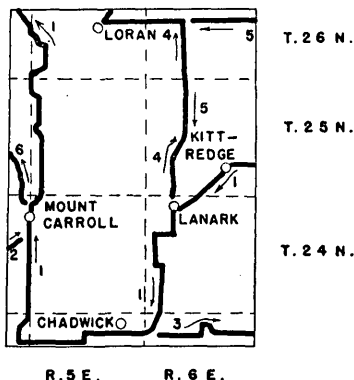


FIGURE 261.—Lines of leveling in Mount Carroll quadrangle.

1. From point 1.5 miles south and 0.3 mile west from Shannon west and southwest along Chicago, Milwaukee, St. Paul & Pacific Railroad to Lanark, thence along roads south to point 1.5 miles east of Chadwick, thence west to point 6.4 miles south of Mount Carroll, thence north to point 3.8 miles south and 0.5 mile west from Morseville (by C. E. Walker in 1927; releveted to Lanark by H. S. Hall in 1941)

[Continued from Forreston quadrangle, line 3]

Shannon, 1.5 mi. S. thence 1.0 mi. W. from, 0.8 mi. E. of Kittredge, 175 ft. S. of rd. crossing, on N. end of E. head wall of concrete bridge over creek; chiseled square-----	<i>Feet</i> 862.36
Kittredge, 100 ft. SW. of C. M. St. P. & P. R. R. yard house, on SE corner of R. R. bridge over creek, 4 ft. S. of S. rail, 2 ft. below rail surface; chiseled square <sup>1</sup> -----	847.61
Kittredge, 1.7 mi. SW. of, 2.0 mi. NE. of Lanark, 40 ft. S. and 30 ft. W. from rd. crossing, 20 ft. S. of S. rail, 12 ft. N. of fence corner, in concrete post; standard tablet stamped "27 WA 1927" (recovered by U. S. C. & G. S. in 1934 and 1938)-----	834.168
Lanark, 1.0 mi. E. of, 600 ft. S. of R. R., at N. end of jog in E.-W. rd., in fence line on N. side of rd., 80 ft. E. of fence corner, in root on W. side of 24-in. maple tree; copper nail and washer-----	847.46
Lanark, 25 ft. from SW. corner of intersection of Carroll and Main Streets, at brick bank building owned by Wolff Bros., in windowsill on Carroll Street, 3 ft. above ground; copper bolt leaded vertically (U. S. C. E. B. M. 68 as reset by U. S. C. & G. S. in 1934 and recovered in 1938)-----	884.837

<sup>1</sup>In 1936 this bench mark was tied to U. S. C. & G. S. bench mark designated "T. B. M. 8," elevation 844.477 ft.

# 1564 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Lanark, 0.5 mi. S. of, near S. city limits, near quarter corner between secs. 5 and 8, T. 24 N., R. 6 E., 150 ft. S. and 39 ft. W. from junction of State Highway 72 and U. S. Highway 52, 40 ft. SE. of residence of F. C. Voltz, in concrete post; standard tablet stamped "T T Sta No 100 JLS 1927"-----	Feet 851.496
Reference mark, 20 ft. N. and 35 ft. W. from crossroads, on N. side of U. S. Highway 52, on E. end of lower concrete sidewalk steps; chiseled square-----	849.83
Lanark, 1.5 mi. S. of, near N $\frac{1}{4}$ cor. sec. 17, T. 24 N., R. 6 E., at right-angle turn W. in rd., on S. side of rd., on concrete culvert; chiseled square-----	790.18
Lanark, 1.5 mi. S. thence 1.0 mi. W. from, near S $\frac{1}{4}$ cor. sec. 7, T. 24 N., R. 6 E., 15 ft. N. and 80 ft. W. from junction of T-rd. S., on concrete culvert; chiseled square-----	802.87
Lanark, 2.5 mi. S. and 1.0 mi. W. from, near quarter corner between secs. 18 and 19, T. 24 N., R. 6 E., at junction of T-rd. E., on concrete base connecting two concrete posts; chiseled square-----	799.79
Lanark, 3.0 mi. S. and 1.0 mi. W. from, about 1.7 mi. E. and 3.5 mi. N. from Chadwick, near center of sec. 19, T. 24 N., R. 6 E., 24 ft. S. and 24 ft. W. from junction of E.-W. rd., 60 ft. N. of front door of residence of E. P. Flickinger, in concrete post; standard tablet stamped "T T Sta No 99 JLS 1927"-----	813.508
Reference mark, 40 ft. N. and 15 ft. W. from rd. junction, on concrete culvert; chiseled square-----	813.81
Chadwick, 1.9 mi. E. and 2.0 mi. N. from, about 0.2 mi. E. of quarter corner between secs. 30 and 31, T. 24 N., R. 6 E., 0.5 mi. NW. of schoolhouse, 20 ft. S. and 80 ft. W. from rd. junction, in root on E. side of 24-in. locust tree; copper nail and washer-----	778.29
Chadwick, about 1.9 mi. E. and 0.9 mi. N. from, in NE $\frac{1}{4}$ oversize sec. 6, T. 23 N., R. 6 E., at concrete bridge over Rock Creek, 1,000 ft. SE. of right-angle turn in rd., 400 ft. SE. of residence of C. F. Schriener, on SE. wing wall of bridge; chiseled square-----	717.84
Chadwick, 1.4 mi. E. of, in SW $\frac{1}{4}$ oversize sec. 6, T. 23 N., R. 6 E., 700 ft. E. of range line, 38 ft. S. and 30 ft. E. from junction of T-rd. S., at residence of J. J. Prowant, in NW. corner of yard, in concrete post; standard tablet stamped "T T Sta No 94 JLS 1927"-----	748.050
Reference mark, in SW. angle of rd. junction, on concrete culvert; chiseled square-----	747.37
Chadwick, 100 ft. NW. of NW. corner of Chadwick High School, at fence line, 10 ft. S. of S. edge of pavement, on concrete sidewalk; chiseled square-----	781.49
Chadwick, 1.7 mi. W. of, in SW $\frac{1}{4}$ oversize sec. 3, T. 23 N., R. 5 E., in NE. angle of rd. junction, on head wall of 30-ft. concrete culvert; chiseled square-----	818.56
Chadwick, 1.7 mi. W. thence 0.5 mi. S. from, at Pleasant Hill School, near NE. cor. sec. 9, T. 23 N., R. 5 E., 125 ft. S. and 28 ft. W. from junction of T-rd. W., 65 ft. SE. of SE. corner of schoolhouse, in concrete post; standard tablet stamped "T T Sta No 93 JLS 1927"-----	902.053
Reference mark, on concrete platform of schoolhouse, 6 ft. SE. of door; chiseled square-----	901.88
Chadwick, 0.5 mi. S. and 2.7 mi. W. from, near NE. cor. sec. 8, T. 23 N., R. 5 E., 250 ft. W. of crossroads, on S. head wall of 60-ft. concrete culvert; chiseled square-----	781.67

Chadwick, 0.5 mi. S. and 3.7 mi. W. from, near SE. cor. oversize sec. 6, T. 23 N., R. 5 E., 20 ft. N. and 50 ft. W. from junction of T-rd. N.; top of 1½-in. pipe used as ground pole for power line-----	<i>Feet</i> 809.92
Chadwick, 0.5 mi. S. and 5.2 mi. W. from, 6.8 mi. S. and 0.5 mi. W. from Carroll County courthouse in Mount Carroll, 2.0 mi. N. of Ideal, near N¼ cor. sec. 12, T. 23 N., R. 4 E., at intersection of State Highway 78, 6 ft. S. and 30 ft. E. from junction of T-rd. W., 180 ft. S. of rd. E., 120 ft. S. of steel girder bridge over Johnson Creek, in concrete post; standard tablet stamped "T T Sta No 69 JLS 1927" (reported destroyed)-----	670.667
Reference mark, on NE. cylindrical steel pier of bridge; top of notched anchor bolt (reported destroyed)-----	669.32
Mount Carroll, 5.8 mi. S. thence 0.5 mi. W. from, in N½ oversize sec. 1, T. 23 N., R. 4 E., at junction of NW.-SE. rd., at schoolhouse, on top near center of lower step; chiseled square-----	740.23
Mount Carroll, 4.9 mi. S. of, near quarter corner between secs. 31 and 36, T. 24 N., Rs. 4 and 5 E., near Chicago, Burlington & Quincy R. R. crossing, in front of Hartman store, on top near center of concrete platform; chiseled square-----	773.27
Mount Carroll, 3.5 mi. S. of, near SW. cor. sec. 19, T. 24 N., R. 5 E., 30 ft. N. and 30 ft. S. from junction of T-rd. E., in concrete post; standard tablet stamped "T T Sta No 89 JLS 1927"-----	790.706
Reference mark, 100 ft. N. of rd. junction, on E. side of rd., in root on E. side of 10-in oak tree; copper nail and washer-----	789.12
Mount Carroll, 2.1 mi. S. of, near W¼ cor. sec. 18, T. 24 N., R. 5 E., at C. M. St. P. & P. R. R. overhead bridge, on NE. abutment, 10 ft. above highway; chiseled square-----	741.53
Mount Carroll, 0.25 mi. W. of C. M. St. P. & P. R. R. sta., 120 ft. E. of R. R. crossing, in SE. angle of rd. junction, in root on NW. side of 30-in. maple tree; copper nail and washer-----	815.10
Mount Carroll, in S. part of, on W. side of South Clay Street, opposite Frances Shimer Academy, 150 ft. N. and 300 ft. W. from smokestack of school power plant, 6 ft. W. of W. edge of highway, in concrete post; standard tablet stamped "T T Sta No 90 JLS 1927" <sup>12</sup> -----	797.787
Reference mark, just N. of tablet, on W. side of South Clay Street, 50 ft. S. of end of concrete pavement, in root on E. side of 24-in. maple tree; copper nail and washer (recovered in 1934)-----	797.39
Mount Carroll, at Carroll County courthouse, at NE. corner of yard, on E. end of concrete retaining wall; chiseled square (recovered in 1934)-----	793.54
Mount Carroll, 2.7 mi. N. and 0.5 mi. E. from, 0.25 mi. N. of S¼ cor. sec. 19, T. 25 N., R. 5 E., on old Mount Carroll-Stockton rd., 40 ft. S. and 20 ft. E. from junction of T-rd. E., in concrete post; standard tablet stamped "T T Sta No 91 JLS 1927"-----	855.841
Mount Carroll, 4.9 mi. N. and 0.3 mi. E. from, about 0.2 mi. W. of center of sec. 7, T. 25 N., R. 5 E., at junction of T-rd. E., in front of dwelling of C. W. Morhardt, in concrete post; standard tablet stamped "28 WA 1927"-----	661.946
Reference mark, 50 ft. SW. of farmhouse, in fence line, in root on S. side of 14-in. oak tree; copper nail and washer-----	667.23

<sup>12</sup> In 1936 this bench mark was tied to U. S. C. & G. S. B. M. designated "T. B. M. 5," elevation 813.775 ft.

## 1566 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Mount Carroll, 5.7 mi. N. of, 0.75 mi. S. of Carroll-Jo Daviess county line, about 0.3 mi. N. of SW. cor. sec. 6, T. 25 N., R. 5 E., 100 ft. E. of rd. fork, in field, on NW. side of 20-in. oak tree; copper nail and washer-----	Feet 838.35
Mount Carroll, 6.5 mi. N. of, just N. of Carroll-Jo Daviess county line, near SW. cor. sec. 31, T. 26 N., R. 5 E., at junction of T-rd. W., at residence of Roy Mader, at SW. corner of front yard, in root on NW. side of 18-in. boxelder tree; copper nail and washer-----	878.41
Mount Carroll, 7.8 mi. N. and 0.7 mi. E. from, 6.2 mi. S. and 0.7 mi. E. from Morseville, 1.0 mi. S. and 3.5 mi. E. from Pleasant Valley, 0.5 mi. SW. of Union School, near center of SE $\frac{1}{4}$ sec. 30, T. 26 N., R. 5 E., 0.25 mi. S. of Taxenberger residence, 18 ft. E. of rd., at E-W. fence, in concrete post; standard tablet stamped "T T Sta No 92 JLS 1927"-----	933.050
Morseville, 5.7 mi. S. and 0.2 mi. E. from, in NW $\frac{1}{4}$ sec. 30, T. 26 N., R. 5 E., 300 ft. N. of junction of T-rd. E., on E. side of rd., on top of ridge, in root on NE. side of 24-in. lone poplar tree; copper nail and washer-----	920.74
[Connects with line 1 in Lena quadrangle]	
2. From point about 2.5 miles northeast of Wacker northeast along Chicago, Milwaukee, St. Paul & Pacific Railroad to Mount Carroll (by C. E. Walker in 1927)	
[Continued from Savanna quadrangle, line 1]	
Wacker, 3.4 mi. in air line NE. of, 1.6 mi. SW. of R. R. sta. at Mount Carroll, near E $\frac{1}{4}$ cor. sec. 14, T. 24 N., R. 4 E., 40 ft. N. and 10 ft. W. from rd. crossing, on S. end of tile culvert; chiseled square-----	781.04
3. From point 1.4 miles east of Chadwick generally east along roads to point 0.8 mile west of Elkhorn Grove (by C. E. Walker in 1927)	
Chadwick, 3.2 mi. E. of, about 0.4 mi. N. of SE. cor. oversize sec. 5, T. 23 N., R. 6 E., 200 ft. W. of crossroads, on N. side of highway, on head wall of concrete culvert; chiseled square-----	789.28
Chadwick, 4.3 mi. E. of, 3.5 mi. W. of Elkhorn Grove, about 0.4 mi. N. of SE. cor. oversize sec. 4, T. 23 N., R. 6 E., 300 ft. E. of farmhouse of H. A. Waggoner, 50 ft. S. and 40 ft. W. from junction of N-S. rd., in concrete post; standard tablet stamped "T T Sta No 95 JLS 1927"-----	758.640
Reference mark, 30 ft. N. and 20 ft. W. from rd. junction, in root on NW. side of 30-in. poplar tree; copper nail and washer-----	756.57
Elkhorn Grove, 1.5 mi. W. of, about 0.4 mi. N. of S. cor. oversize secs. 1 and 2, T. 23 N., R. 6 E., 120 ft. S. of crossroads, in root on NW. side of 30-in. maple tree; copper nail and washer-----	771.32
[Continued in Forrester quadrangle, line 4]	
4. From highway junction 0.5 mile south of Lanark north along State Highways 72 and 73 to crossroads 1.7 miles south of Pearl City, thence along roads west to road junction 0.3 mile northeast of Loran, thence northeast 0.9 mile (by J. A. Shumate in 1927; releveled to point 1.7 miles south of Pearl City by C. E. Walker in same year)	
Lanark, 200 ft. W. of Chicago, Milwaukee, St. Paul & Pacific R. R. sta., at rd. crossing; top of rail-----	882.9
Lanark, 0.4 mi. N. of, near N $\frac{1}{4}$ cor. sec. 5, T. 24 N., R. 6 E., 150 ft. S. of jog in township-line rd., on E. side of rd., in root on W. side of 12-in. boxelder tree; copper nail and washer-----	853.77

Lanark, 1.4 mi. N. of, at Rowland School, near N¼ cor. sec. 32, T. 25 N., R. 6 E., in SE. angle of crossroads, in root on NW. side of 12-in. basswood tree; copper nail and washer-----	<i>Feet</i> 871.53
Lanark, 2.0 mi. N. of, near center of sec. 29, T. 25 N., R. 6 E., 60 ft. S. and 14 ft. W. from junction of T-rd. E., on E. head wall of concrete culvert; chiseled square-----	874.30
Lanark, 2.5 mi. N. of, 0.5 mi. SW. of Georgetown, near N¼ cor. sec. 29, T. 25 N., R. 6 E., 30 ft. S. and 30 ft. W. from junction of rd. E., in fence corner, in concrete post; standard tablet stamped "T T Sta No 101 JLS 1927"-----	925.355
Reference mark, 117 ft. N.45°W. from tablet, 140 ft. N. and 32 ft. W. from rd. junction, in root on N. side of 12-in. elm tree; copper nail and washer-----	921.01
Lanark, 3.8 mi. N. of, 0.8 mi. NE. of Georgetown, 4.0 mi. W. of Shannon, near SE. cor. sec. 17, T. 25 N., R. 6 E., 15 ft. N. and 72 ft. W. from crossroads, on SE. corner of concrete walk to house; chiseled square-----	922.56
Lanark, 4.3 mi. N. of, near E¼ cor. sec. 17, T. 25 N., R. 6 E., 70 ft. S. and 25 ft. W. from junction of T-rd. E., in root on S. side of 15-in. willow tree; copper nail and washer-----	830.85
Lanark, 4.8 mi. N. of, near SE. cor. sec. 8, T. 25 N., R. 6 E., 36 ft. N. and 33 ft. W. from crossroads, in root on E. side of 12-in. maple tree; copper nail and washer-----	881.32
Lanark, 5.7 mi. N. of, near cor. secs. 4, 5, 8, and 9, T. 25 N., R. 6 E., in NE. angle of junction of rd. E., on E. head wall of concrete culvert; chiseled square-----	918.59
Lanark, 6.8 mi. N. of, 4.7 mi. S. of Pearl City, just N. of Carroll-Stephenson county line, 50 ft. N. of S. cor. secs. 32 and 33, T. 26 N., R. 6 E., 65 ft. N. and 90 ft. E. from N. cor. secs. 4 and 5, T. 25 N., R. 6 E., 8 ft. W. of 10-in. wild-cherry tree near fence line, in concrete post; standard tablet stamped "T T Sta No 102 JLS 1927"-----	914.465
Reference mark, 6 ft. S. and 4 ft. E. from tablet, in root of cherry tree; copper nail and washer-----	914.09
Pearl City, 3.7 mi. S. of, near NW. cor. sec. 33, T. 26 N., R. 6 E., in SE. angle of crossroads, on E. head wall of concrete culvert; chiseled square-----	895.61
Pearl City, 2.7 mi. S. of, near SE. cor. sec. 20, T. 26 N., R. 6 E., in NW. angle of crossroads, 1 ft. N. of yard corner, on concrete retaining wall; chiseled square-----	922.23
Pearl City, 1.7 mi. S. of, near SE. cor. sec. 17, T. 26 N., R. 6 E., 17 ft. N. and 230 ft. W. from crossroads, on N. head wall of concrete culvert; chiseled square-----	852.26
Pearl City, 1.7 mi. S. thence 1.0 mi. W. from, 0.3 mi. NE. thence 3.2 mi. E. from Loran, at Central School No. 3, 25 ft. N. and 35 ft. E. from cor. secs. 17, 18, 19, and 20, T. 26 N., R. 6 E., in NE. angle of crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 26 1911" <sup>73</sup> -----	925.278
Reference mark, 4.3 ft. N.70°W. from tablet, in root on NW. side of 10-in. cedar tree; copper nail and washer-----	923.63

<sup>73</sup> In 1934 this bench mark was moved to the northwest angle of the crossroads and reset at the same elevation.

# 1568 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Loran, 0.3 mi. NE. thence 2.3 mi. E. from, about 0.3 mi. W. of N $\frac{1}{4}$ cor. sec. 19, T. 26 N., R. 6 E., 30 ft. S. and 70 ft. E. from junction of rd. N., in root on N. side of 12-in. cherry tree; copper nail and washer (reported destroyed)-----	<i>Feet</i> 1,002.54
Loran, 0.3 mi. NE. thence 1.8 mi. E. from, about 0.2 mi. E. of N $\frac{1}{4}$ cor. sec. 24, T. 26 N., R. 5 E., in SE. angle of rd. fork, in root on N. side of 12-in. boxelder tree; copper nail and washer ( reported destroyed)-----	996.65
Loran, 0.3 mi. NE. of, at Reformed Church, in NE $\frac{1}{4}$ sec. 22, T. 26 N., R. 5 E., 31 ft. S. and 37 ft. E. from junction of NE-SW. rd., 23 ft. N. and 22 ft. W. from NW. corner of church, in concrete post; standard tablet stamped "13 JAS 1927"-----	774.824
Reference mark, 114 ft. N.30°W. from tablet, on top near center of E. head wall of concrete culvert; chiseled square-----	775.58
Loran, 1.1 mi. NE. of, in NW $\frac{1}{4}$ sec. 14, T. 26 N., R. 5 E., in SE. angle of junction of rd. E., on E. head wall of concrete culvert; chiseled square (reported destroyed)-----	763.65
[Continued in Lena quadrangle, line 1]	
5. From point 1.1 miles west of Bolton west along Chicago Great Western Railway and road to crossroads 1.7 miles south of Pearl City (by C. E. Walker in 1927)	
[Connects with line 4 in Forreston quadrangle]	
Bolton, 1.5 mi. W. of sta., 700 ft. W. of rd. crossing, 5 ft. W. of semaphore 115-6, on circular concrete tank; chiseled square-----	823.54
Bolton, 2.8 mi. W. of, 1.7 mi. S. thence 2.5 mi. E. from Pearl City, near N $\frac{1}{4}$ cor. sec. 23, T. 26 N., R. 6 E., at junction of T-rd. W., 30 ft. S. and 30 ft. W. from rd. crossing, in fence corner, in concrete post; standard tablet stamped "30 WA 1927"-----	804.423
Pearl City, 1.7 mi. S. thence 1.0 mi. E. from, at Lamb School, near cor. secs. 15, 16, 21, and 22, T. 26 N., R. 6 E., on SW. corner of concrete platform; chiseled square-----	818.95
6. From Mount Carroll along State Highway 78 and roads to point 3.4 miles northwest of Carroll County courthouse in Mount Carroll (by S. R. Archer in 1934)	
Mount Carroll, in N. part of, at N. end of concrete and steel viaduct over Carroll Creek valley, on E. side of viaduct, at foot of and on inside of N. post of E. side wall, on E. edge of sidewalk; chiseled square-----	779.40
Mount Carroll, 0.7 mi. NE. of Carroll County courthouse, in NE $\frac{1}{4}$ sec. 1, T. 24 N., R. 4 E., 300 ft. NW. of junction of rd. N. at point where State Highway 78 angles NW., at concrete bridge on W. parapet of N. abutment; chiseled square-----	729.30
Mount Carroll, 1.1 mi. NW. of, 0.15 mi. S. of center of sec. 36, T. 25 N., R. 4 E., 175 ft. N. of rd. junction and curve from NW. to N. in highway, on S. end of W. head wall of concrete culvert; chiseled square-----	812.38
Mount Carroll, 1.9 mi. NW. of, 0.15 mi. W. of S $\frac{1}{4}$ cor. sec. 25, T. 25 N., R. 4 E., 400 ft. N. of crossroads, on N. end of E. head wall of concrete culvert; chiseled square-----	876.94
Mount Carroll, 2.8 mi. NW. of, in NW $\frac{1}{4}$ sec. 25, T. 25 N., R. 4 E., 300 ft. NW. of rd. fork, on SW. parapet of SE. abutment of concrete bridge; chiseled square-----	692.29

[Continued in Savanna quadrangle, line 6]

# MUSCATINE QUADRANGLE

[Latitude 41°15'–41°30'; longitude 91°00'–91°15']

## MERCER AND ROCK ISLAND COUNTIES

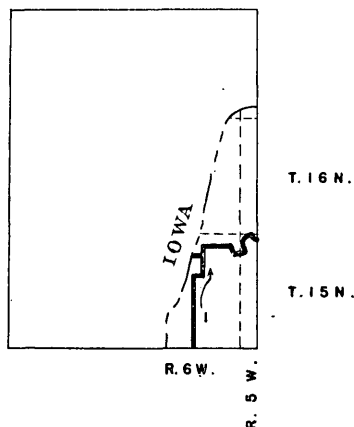


FIGURE 262.—Lines of leveling in Muscatine quadrangle.

1. From point near center of sec. 34, T. 15 N., R. 6 W., north along roads near Mississippi River to point near lower end of Blanchard Island, thence generally east to point on Mercer-Rock Island county line near northeast corner sec. 6, T. 15 N., R. 5 W. (by S. R. Archer in 1931)

[Continued from Wapello quadrangle, line 1]

T. 15 N., R. 6 W., near quarter corner between secs. 27 and 34, 350 ft. N. of junction of T-rd. W., on W. side of rd., at SE. corner of farmhouse, on S. side near bottom of top course of concrete block foundation; center of chiseled square-----	Feet 534.00
T. 15 N., R. 6 W., near quarter corner between secs. 22 and 27, 215 ft. S. and 160 ft. E. from crossroads, T-rd. E., and private rd. W., in field, in root on NW. side of 30-in. cottonwood tree; copper nail and washer--	534.79
T. 15 N., R. 6 W., 0.15 mi. N. of center of sec. 22, 30 ft. S. of private rd. W., 25 ft. S. of fence corner, on W. side of rd., at fence line, in concrete post; standard tablet stamped "5 A 1931"-----	537.769
Reference mark, 110 ft. S. of tablet, 150 ft. S. of private rd. W., on W. side of rd., W. of fence, in root on SE. side of 12-in. twin locust tree; copper nail and washer.-----	536.95
T. 15 N., R. 6 W., near center of sec. 15, on E. side of rd., 250 ft. N. of farmhouse, at NW. corner of barn lot, in root on SW. side of 50-in. elm tree; copper nail and washer-----	539.08
T. 15 N., R. 6 W., near W. cor. secs. 11 and 14, 30 ft. S. and 150 ft. E. from junction of T-rd. W., in root on N. side of 28-in. tree, northernmost of row of maple trees; copper nail and washer-----	537.83

# 1570 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

T. 15 N., R. 6 W., near S. cor. secs. 2 and 3, at Union School, 90 ft. N. and 25 ft. W. from junction of private rd. W., at E. end of concrete walk to schoolhouse, on S. corner; chiseled square-----	<i>Feet</i> 535.80
T. 15 N., R. 6 W., near quarter corner between secs. 3 and 10, 0.6 mi. W. of Union School, 0.3 mi. below foot of Blanchard Island, 650 ft. N. of intersection of E.-W. section line and E. bank of river, 85 ft. W. of N.-S. rd., 26 ft. back from river bank; Mississippi River Comm. B. M. 138/2	
cap on iron pipe-----	540.730
bolt in tile-----	536.730
T. 15 N., R. 6 W., near quarter corner between secs. 2 and 3, 0.5 mi. N. of Union School, 40 ft. S. and 30 ft. E. from junction of T-rd. E., 10 ft. S. of fence corner, in concrete post; standard tablet stamped "6 A 1931"-----	540.120
Reference mark, 38 ft. S. of tablet, 78 ft. S. and 30 ft. E. from junction of T-rd. E., in root, 1 ft. from base, on NW. side of 12-in. maple tree; copper nail and washer-----	539.64
T. 15 N., R. 6 W., 0.25 mi. E. of center of sec. 2, 370 ft. E. of farmhouse on S. side of rd., 70 ft. S. of rd., on W. bank of drainage ditch, in root on N. side of 15-in. cottonwood tree; copper nail and washer-----	537.69
T. 15 N., R. 6 W., near S $\frac{1}{4}$ cor. sec. 1, at NW. corner of bridge over drainage ditch, on top of cylindrical steel pier filled with concrete; chiseled square-----	529.90
T. 15 N., R. 5 W., near W. cor. secs. 6 and 7, in NW. angle of junction of rd. W., in fence corner, in root on NW. side of 36-in. elm tree; copper nail and washer-----	555.47
T. 16 N., R. 5 W., 0.25 mi. N. of S $\frac{1}{4}$ cor. sec. 31, 0.25 mi. N. of Mercer-Rock Island county line, 220 ft. S. of concrete bridge, 55 ft. N. of junction of rd. SE., 40 ft. N. of fence corner, on E. side of rd. along foot of bluffs, in concrete post; standard tablet stamped "7 A 1931"-----	567.004
Reference mark, 220 ft. N. of tablet, at S. abutment of concrete bridge, on top of E. parapet; chiseled square-----	569.11

[Continued in Edgington quadrangle, line 7]

# OREGON QUADRANGLE

[Latitude 42°00'–42°15'; longitude 89°15'–89°30']

OGLE, STEPHENSON, AND WINNEBAGO COUNTIES

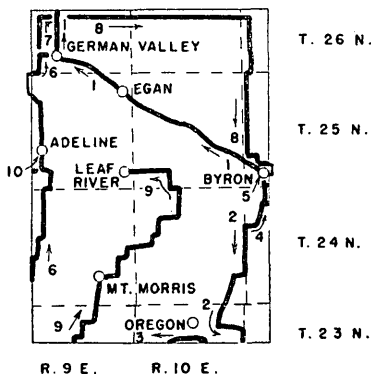


FIGURE 263.—Lines of leveling in Oregon quadrangle.

1. From Byron northwest along Chicago Great Western Railway to German Valley, thence north along road to point 0.2 mile south of Evarts (by J. M. Perkins in 1915)

Byron, 1,837 ft. S. of Chicago, Milwaukee, St. Paul & Pacific R. R. track at brick and stone building fronting on Walnut Street, in N. wall of NE. corner, 11 in. from corner, 4 ft. above ground; center of copper bolt leaded horizontally (U. S. C. E. B. M. 73)-----	Feet 728.981
Byron, 3.7 mi. NW. of, 2.2 mi. SE. of Myrtle, at crossing of N.-S. rd., at E. line of rd. and N. line of R. R. right-of-way; standard iron post with bronze cap stamped "1915 712"-----	711.636
Myrtle, 300 ft. SE. of sta., at crossing of N.-S. rd., at E. line of rd. and N. line of R. R. right-of-way; standard iron post with bronze cap stamped "1915 769"-----	768.228
Myrtle, 1.7 mi. NW. of, 1.3 mi. SE. of Egan, at S. end of W. abutment of R. R. bridge 317, on top course of stone; chiseled square-----	824.16
Egan, 100 ft. SE. of sta., at crossing of N.-S. rd., at S. line of diagonal rd. and N. line of R. R. right-of-way; standard iron post with bronze cap stamped "1915 826"-----	825.600
Egan, 1.6 mi. NW. of, 2.6 mi. SE. of German Valley, at crossing of E.-W. rd., in base of signpost marking line between Ogle and Stephenson Counties; rail spike-----	821.77
German Valley, 0.2 mi. SE. of sta., at crossing of N.-S. rd., at E. line of rd. and N. line of R. R. right-of-way; standard iron post with bronze cap stamped "1915 809" (recovered in 1921)-----	807.895
German Valley, 1.1 mi. N. of, near NW. cor. sec. 28, T. 26 N., R. 9 E., 30 ft. E. of crossroads, on S. side of rd., at fence line, in root of large maple tree; copper nail and washer-----	853.91

# 1572 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

German Valley, 2.1 mi. N. of, 0.6 mi. S. of Evarts, at Wessels School,  
30 ft. N. and 30 ft. W. from cor. secs. 16, 17, 20, and 21, T. 26 N.,  
R. 9 E., in NW. angle of crossroads; standard iron post with bronze  
cap stamped "Prim Trav Sta No 33 1911 878" (recovered in 1921)----- *Feet*  
877.029

[Continued in Pecatonica quadrangle, line 1]

## 2. From Byron along roads alternately south and west to point 0.6 mile north of Honey Creek station on Chicago, Burlington & Quincy Railroad (by H. S. Senseney in 1916)

Byron, at highway bridge over Rock River; bridge floor----- 692.9  
Rock River, under bridge; surface of water July 11, 1916----- 670.1  
Byron, 2.7 mi. S. and 1.2 mi. W. from, near NE. cor. sec. 13, T. 24 N.,  
R. 10 E., 60 ft. S. and 20 ft. W. from crossroads; standard iron post  
with bronze cap stamped "864" and "Prim Trav Sta No 6 1917"  
(recovered in 1917)----- 863.161  
Reference mark, in SW. angle of crossroads, in root of tree; copper  
nail and washer----- 862.79  
Byron, 5.2 mi. S. and 1.2 mi. W. from, 2.5 mi. N. and 2.8 mi. E. from  
Oregon, 35 ft. N. of W $\frac{1}{4}$  cor. sec. 30, T. 24 N., R. 11 E., 10 ft. N.  
and 20 ft. E. from junction of T-rd. W.; standard iron post with  
bronze cap stamped "862" and "Prim Trav Sta No 7 1917"----- 861.880  
Oregon, 2.5 mi. N. and 2.0 mi. E. from, near Pleasant Grove School,  
0.25 mi. E. of W $\frac{1}{4}$  cor. sec. 25, T. 24 N., R. 10 E., in NE. angle of  
crossroads, on culvert; chiseled square----- 837.63  
Oregon, 1.7 mi. N. and 2.0 mi. E. from, in NW $\frac{1}{4}$  sec. 36, T. 24 N., R. 10  
E., near dwelling of Charles Jolson, in NE. angle of junction of  
private rd. E., on culvert; chiseled square----- 821.32  
Oregon, 0.5 mi. N. and 1.5 mi. E. from, 0.5 mi. S. and 0.25 mi. W. from  
NE cor. oversize sec. 2, T. 23 N., R. 10 E., 20 ft. N. and 25 ft. W.  
from rd. fork; standard iron post with bronze cap stamped "870"----- 868.996  
Reference mark, in NW. angle of rd. fork, in root of tree; copper nail  
and washer----- 868.54  
Oregon, 0.2 mi. S. and 1.5 mi. E. from, 0.5 mi. N. and 0.25 mi. W.  
from SE. cor. oversize sec. 2, T. 23 N., R. 10 E., about 600 ft. S. of  
Stone School, in triangle of rd. fork, on boulder; chiseled square----- 747.69  
Oregon, 0.2 mi. S. and 2.5 mi. E. from, 1.4 mi. N. and 0.2 mi. W. from  
Honey Creek, 0.5 mi. N. and 0.25 mi. W. from SE. cor. oversize sec.  
1, T. 23 N., R. 10 E., in SW. angle of rd. fork, in root of tree; copper  
nail and washer----- 802.02

[Continued in Dixon quadrangle, line 1]

## 3. Northwest and southwest along Chicago, Burlington & Quincy Railroad near Oregon (by H. S. Senseney in 1916)

[A jog from Dixon quadrangle, line 2]

Oregon, 0.2 mi. W. of sta., 30 ft. E. of crossing of N.-S. rd., 10 ft. N. of  
track; standard iron post with bronze cap stamped "702"----- 701.430

[Continued in Dixon quadrangle, line 2]

## 4. From crossroads 2.7 miles south and 1.2 miles west from Byron generally northeast along roads to point 1.5 miles south and 0.2 mile east from Byron (by C. C. Holder in 1917)

Byron, 1.7 mi. S. and 0.2 mi. W. from, at Whitaker School, near S.  
cor. secs. 5 and 6, T. 24 N., R. 11 E., on S. end of concrete walk;  
probably chiseled square----- 832.39

[Continued in Kings quadrangle, line 5]

5. From Byron along roads south 0.5 mile and east 0.2 mile (by S. L. Parker in 1917)

[Connects with line 1 in Kings quadrangle]

Byron, 0.5 mi. S. of center of town, 500 ft. S. of S. end of highway bridge over Rock River, in NE. angle of crossroads, on top of N. end of concrete culvert; chiseled square-----	Feet 686.99
---	----------------

[Connects with line 1 in Kings quadrangle]

6. From road junction 3.5 miles west of Mount Morris generally north along roads to German Valley (by E. O. Brooks in 1921)

[Continued from Forreston quadrangle, line 1]

Mount Morris, 3.5 mi. W. of, 1.2 mi. S. and 2.3 mi. E. from Maryland, near center of sec. 30, T. 24 N., R. 9 E., on S. side of E.-W. rd., at junction of T-rd. N., 15 ft. N. of fence, on N. end of W. concrete retaining wall of culvert; chiseled square <sup>74</sup> -----	854.38
Mount Morris, 3.5 mi. W. thence 1.0 mi. N. from, 0.2 mi. S. and 2.3 mi. E. from Maryland, near center of sec. 19, T. 24 N., R. 9 E., 190 ft. W. of T-junction of E.-W. rd., on E. end of N. concrete retaining wall of culvert; chiseled square <sup>74</sup> -----	896.57
T. 24 N., R. 9 E., 0.25 mi. W. of E $\frac{1}{4}$ cor. sec. 18, on N. side of rd., at junction of T-rd. S., 1 ft. S. of fence; standard iron post with bronze cap stamped "23 EB 1921 894"-----	893.812
Reference mark, 15 ft. SW. of iron post, on N. side of rd., 5 ft. S. of fence, in root of 12-in. hickory tree; copper nail and washer-----	893.58
T. 24 N., R. 9 E., near W $\frac{1}{4}$ cor. sec. 8, in SE. angle of crossroads, 10 ft. N. and 15 ft. W. from fence corner, on N. end of E. retaining wall of concrete culvert; chiseled square-----	902.89
T. 24 N., R. 9 E., at quarter corner between secs. 5 and 6, at Cedar Bluff School, at crossroads, on stone marking quarter corner; chiseled square-----	853.22
T. 24 N., R. 9 E., near NE. cor. sec. 6, 0.5 mi. N. of Cedar Bluff School, 2.0 mi. in air line S. of Adeline, in SW. angle of junction of T-rd. S., 6 ft. N. and 25 ft. W. from fence corner; standard iron post with bronze cap stamped "Prim Trav Sta No 34 1911 EB 24 1921 845"-----	844.627
Reference mark, 10 ft. SE. of iron post, in SW. angle of rd. junction, 20 ft. W. of fence corner, 0.5 ft. N. of fence, 6 in. underground; cap on 1 $\frac{1}{8}$ -in. iron pipe-----	843.40
Adeline, 2.0 mi. S. and 0.4 mi. E. from, near S $\frac{1}{4}$ cor. sec. 32, T. 25 N., R. 9 E., in NW. angle of junction of T-rd. N., on large granite boulder; chiseled square-----	899.32
Adeline, 1.0 mi. S. and 0.3 mi. E. from, 0.1 mi. W. of S $\frac{1}{4}$ cor. sec. 29, T. 25 N., R. 9 E., in NE. angle of crossroads, 10 ft. E. of fence corner; cap on 1 $\frac{5}{8}$ -in. iron pipe-----	781.33
Adeline, 1.0 mi. S. of, near SE. cor. sec. 30, T. 25 N., R. 9 E., in NW. angle of junction of rd. N., on SE. corner of concrete base of corner fence post; chiseled square-----	801.28
Adeline, 60 ft. E. of store of W. D. Stadel, in SE. angle of crossroads, 2 ft. W. of W. edge of concrete walk; standard iron post with bronze cap stamped "25 EB 1921 796" (recovered in 1930)-----	795.676
Reference mark, 7.5 ft. N. of iron post, on W. edge of concrete walk; chiseled square (recovered in 1930)-----	795.29

<sup>74</sup> This bench mark is also described in Forreston quadrangle, line 1.

## 1574 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Adeline, 1.0 mi. N. of, near SE. cor. sec. 18, T. 25 N., R. 9 E., in NW. angle of crossroads, 70 ft. N. of fence corner, 7 ft. W. of fence, in root of 18-in. pine tree; copper nail and washer-----	<i>Feet</i> 847.23
Adeline, 2.0 mi. N. of, 2.9 mi. S. and 1.0 mi. W. from R. R. and highway crossing at German Valley, near NE. cor. sec. 18, T. 25 N., R. 9 E., in SW. angle of crossroads, 20 ft. N. of fence corner, on large flint boulder; chiseled square-----	810.32
[Jogs into Forreston quadrangle, line 2]	
German Valley, 0.9 mi. S. and 1.0 mi. W. from, near NE. cor. sec. 6, T. 25 N., R. 9 E., at Ogle-Stephenson county line, at fence line on S. side of county-line rd., 10 ft. W. of center line of T-rd. N.; cap on 1½-in. iron pipe-----	844.09
German Valley, 0.1 mi. N. and 1.0 mi. W. from, near SW. cor. sec. 29, T. 26 N., R. 9 E., 60 ft. NE. of crossroads, in root 1.5 ft. SE. of trunk of 12-in. boxelder tree (see following description); copper nail and washer-----	873.74
German Valley, 0.1 mi. N. and 1.0 mi. W. from, near SW. cor. sec. 29, T. 26 N., R. 9 E., 60 ft. NE. of crossroads, in root 1 ft. NE. of trunk of 12-in. boxelder tree (see preceding description); copper nail and washer-----	873.55
7. From crossroads 0.1 mile north and 1 mile west from German Valley along roads north and east to crossroads 2.1 miles north of German Valley (by E. O. Brooks in 1921)	
German Valley, 1.1 mi. N. and 1.0 mi. W. from, near SW. cor. sec. 20, T. 26 N., R. 9 E., in NE. angle of junction of T-rd. E., 3 ft. SW. of fence corner, on large boulder; chiseled square-----	874.38
German Valley, 2.1 mi. N. and 1.0 mi. W. from, 0.6 mi. S. and 1.0 mi. W. from Evarts, near NW. cor. sec. 20, T. 26 N., R. 9 E., in SE. angle of junction of T-rd. E., on concrete base of corner fence post; chiseled square-----	947.01
German Valley, 2.1 mi. N. of, 0.6 mi. S. of Evarts, near SE. cor. sec. 17, T. 26 N., R. 9 E., 12.5 ft. N. and 7.5 ft. W. from standard iron post, 6 in. E. of N.-S. fence, 6 in. underground; cap on 1½-in. iron pipe <sup>75</sup> -----	876.51
8. From crossroads 2.1 miles north of German Valley east along road to crossroads 0.2 mile north and 1.2 miles west from Alworth, thence south to point near Byron (by E. O. Brooks in 1921)	
German Valley, 2.1 mi. N. and 1.0 mi. E. from, near NE. cor. sec. 21, T. 26 N., R. 9 E., in SW. angle of crossroads, on E. end of S. concrete retaining wall of bridge; chiseled square-----	824.80
T. 26 N., R. 9 E., near S½ cor. sec. 14, in NW. angle of crossroads, 8 ft. W. of fence corner, 6 in. S. of fence; standard iron post with bronze cap stamped "27 EB 1921 837"-----	836.656
Reference mark, 4 ft. E. of iron post, 4 ft. W. of fence corner, 6 in. S. of fence, 6 in. underground; cap on 1½-in. iron pipe-----	834.93
T. 26 N., R. 9 E., 0.15 mi. W. of SE. cor. sec. 14, 45 ft. N. of overhead bridge over Illinois Central R. R., on N. side of rd., 8 ft. S. of right-of-way fence, in root of 24-in. maple tree; copper nail and washer---	861.53

<sup>75</sup> Established as a reference mark to permanent bench mark stamped "Prim Trav Sta No 33 1911 878," described in line 1.

T. 26 N., Rs. 9 and 10 E., at cor. secs. 18, 19, 13, and 24, at Stephenson-Winnebago county line, near center of crossroads, on stone marking section corner; chiseled square-----	<i>Feet</i> 848.10
T. 26 N., R. 10 E., at cor. secs. 17, 18, 19, and 20, near center of crossroads, on stone marking section corner; chiseled square-----	851.16
T. 26 N., R. 10 E., near SW. cor. sec. 16, 0.7 mi. N. of Seward, in NE. angle of crossroads, 20 ft. E. of fence corner, 8 in. S. of fence; standard iron post with bronze cap stamped "28 EB 1921 889"-----	888.907
Reference mark, 20 ft. N. and 15 ft. W. from iron post, in root of 18-in. maple tree; copper nail and washer-----	889.48
T. 26 N., R. 10 E., near NE. cor. sec. 21, in SW. angle of junction of T-rd. S., 6 ft. W. of fence corner, 0.5 ft. N. of fence; cap on 1½-in. iron pipe-----	850.78
T. 26 N., R. 10 E., near N. cor. secs. 22 and 23, 20 ft. S. of crossroads, at concrete bridge over ditch, on W. wing wall, 2.5 ft. W. of NW. corner; chiseled square-----	833.48
T. 26 N., R. 10 E., near NE. cor. sec. 23, in SW. angle of crossroads, 2 ft. N. and 2.5 ft. W. from fence corner; standard iron post with bronze cap stamped "Prim Trav Sta No 1 1915 29 EB 1921 863"-----	862.102
Reference mark, 10 ft. S. and 3 ft. E. from iron post, 9 ft. S. of fence corner, 6 in. underground; cap on 1½-in. galvanized iron pipe-----	861.31
T. 26 N., R. 11 E., near N¼ cor. sec. 19, 0.2 mi. N. and 1.2 mi. W. from Alworth, 1.0 mi. N. of Edwardsville Creamery, in SE. angle of crossroads, 30 ft. E. of fence corner, 6 ft. S. of fence, in root of forked 48-in. maple tree; copper nail and washer-----	922.57
T. 26 N., R. 11 E., near N¼ cor. sec. 30, at Edwardsville Creamery, in SE. angle of crossroads, 6 ft. S. and 0.5 ft. W. from fence corner; cap on 1½-in. iron pipe-----	892.25
T. 26 N., R. 11 E., 0.25 mi. N. of center of sec. 31, 1.2 mi. S. of Edwardsville Creamery, in NW. angle of junction of private rd. W., 5 ft. N. of fence corner, 1 ft. E. of fence; standard iron post with bronze cap stamped "30 EB 1922 866"-----	865.445
Reference mark, 1.5 ft. S. of iron post, 6 in. underground; cap on 1½-in. iron pipe-----	864.32
T. 26 N., R. 11 E., near S¼ cor. sec. 31, 0.5 mi. E. of Middle Creek Church, at Ogle-Winnebago county line, at right-angle turn in rd. from S. to W., 3 ft. SW. of NW. corner of right-of-way fence, on granite boulder; chiseled square-----	861.94
T. 25 N., R. 11 E., 0.25 mi. E. of SW. cor. sec. 6, on E. side of rd., 2.5 ft. N. and 0.5 ft. W. from fence corner; cap on 1½-in. iron pipe---	822.54
T. 25 N., R. 11 E., 0.25 mi. E. of NW. cor. sec. 18, 3.3 mi. N. and 1.0 mi. W. from Byron, in SW. angle of crossroads, 6 ft. S. and 1.5 ft. E. from fence corner; standard iron post with bronze cap stamped "31 EB 1921 774"-----	773.060
Reference mark, 1 ft. W. of iron post, 6 in. underground; cap on 1½-in. iron pipe-----	771.77
Byron, 2.3 mi. N. and 1.0 mi. W. from, 0.25 mi. E. of NW. cor. sec. 19, T. 25 N., R. 11 E., in SE. angle of crossroads, 2 ft. S. and 0.5 ft. W. from fence corner; cap on iron gas pipe-----	760.79
Byron, 1.3 mi. N. and 1.0 mi. W. from, 0.25 mi. E. of NW. cor. sec. 30, T. 25 N., R. 11 E., on W. side of rd., 200 ft. SW. of dwelling of A. Norup, 90 ft. S. of fence corner, 5 ft. W. of fence, in root of forked 6-in. hickory tree; copper nail and washer-----	801.32

# 1576 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Byron, 1.1 mi. NW. of, 0.2 mi. E. of center of sec. 30, T. 25 N., R. 11 E., at junction of private rd. E., on base of concrete corner fence post; chiseled square-----	Feet 758.52
[Connects with line 1 in Kings quadrangle]	
9. From point 0.2 mile north and 1.7 miles east from Stratford along roads generally northeast by way of Mount Morris to Leaf River (by E. O. Brooks in 1921)	
[Connects with line 2 in Dixon quadrangle]	
Mount Morris, 3.2 mi. S. and 1.3 mi. W. from, 0.4 mi. N. and 1.7 mi. E. from Stratford, 0.25 mi. W. of SE. cor. oversize sec. 4, T. 23 N., R. 9 E., on NW. side of right-angle turn in rd. from N. to E., 20 ft. N. and 15 ft. W. from fence corner, in root of 24-in. black-oak tree; copper nail and washer-----	801.14
Mount Morris, 2.3 mi. S. thence 0.9 mi. W. from, near W¼ cor. oversize sec. 3, T. 23 N., R. 9 E., on NW. side of rd. junction, in root of 24-in. black-oak tree; copper nail and washer-----	834.88
Mount Morris, 2.3 mi. S. of, near W¼ cor. oversize sec. 2, T. 23 N., R. 9 E., on SE. side of junction of rd. N., on E. side of private rd. S., 1 ft. N. and 25 ft. E. from fence corner; standard iron post with bronze cap stamped "32 EB 1921 864"-----	863.763
Mount Morris, 1.5 mi. S. of, near SE. cor. sec. 34, T. 24 N., R. 9 E., in NW. angle of junction of township-line rd. and rd. N., 10 ft. N. and 0.5 ft. E. from fence corner; cap on iron gas pipe-----	911.23
Mount Morris, 1 block N. and 1 block E. from post office, 35 ft. NE. of intersection of McKendrie and Hitt Streets, 4 ft. S. of S. edge of concrete walk; standard iron post with bronze cap stamped "33 EB 1921 916"-----	915.263
Reference mark, 10 ft. NW. of iron post, 0.5 ft. N. of N. edge of concrete walk, in root of 48-in. maple tree; copper nail and washer-----	915.29
Mount Morris, 1.0 mi. E. of, near W¼ cor. sec. 25, T. 24 N., R. 9 E., in SE. angle of crossroads, 5 ft. S. and 0.5 ft. W. from fence corner; cap on iron gas pipe-----	907.34
Mount Morris, 1.0 mi. E. and 1.0 mi. N. from, near E¼ cor. sec. 23, T. 24 N., R. 9 E., on NW. side of right-angle turn in rd. from N. to E., 6 ft. S. and 1 ft. E. from fence corner; cap on iron gas pipe-----	849.28
Mount Morris, 1.5 mi. N. and 1.5 mi. E. from, near N¼ cor. sec. 24, T. 24 N., R. 9 E., in SE. angle of crossroads, 5 ft. S. and 1 ft. W. from fence corner; standard iron post with bronze cap stamped "34 EB 1921 856"-----	855.121
Reference mark, 3 ft. S. of iron post, 8 ft. S. and 1 ft. W. from fence corner, 6 in. underground; cap on iron pipe-----	853.94
Mount Morris, 3.1 mi. N. and 3.2 mi. E. from, 2.3 mi. S. and 1.7 mi. E. from Leaf River, 0.25 mi. W. of center of sec. 8, T. 24 N., R. 10 E., in NE. angle of junction of second-class rd. N., 2 ft. S. and 6 ft. E. from large concrete fence post on N. side of rd. E.; standard iron post with bronze cap stamped "35 EB 1921 852"-----	850.912
Leaf River, 2.3 mi. S. and 3.0 mi. E. from, near center of sec. 9, T. 24 N., R. 10 E., 240 ft. N. of junction of T-rd. W., on S. end of W. concrete retaining wall of bridge over small drain; chiseled square--	698.51
Leaf River, 0.8 mi. S. and 3.0 mi. E. from, near S¼ cor. sec. 33, T. 25 N., R. 10 E., 210 ft. W. of junction of T-rd. S., on W. end of N. coping of steel bridge over small creek; chiseled square-----	783.05

Leaf River, 0.8 mi. S. and 2.5 mi. E. from, near SW. cor. sec. 33, T. 25 N., R. 10 E., in NE. angle of junction of T-rd. N., 75 ft. N. and 6 ft. E. from fence corner, in root of 18-in. black-oak tree; copper nail and washer-----	<i>Feet</i> 755.84
Leaf River, 0.2 mi. N. and 2.5 mi. E. from, near NE. cor. sec. 32, T. 25 N., R. 10 E., in SW. angle of crossroads, on concrete base of corner fence post; chiseled square-----	858.84
Leaf River, 0.2 mi. N. and 1.5 mi. E. from, near SE. cor. sec. 30, T. 25 N., R. 10 E., in NW. angle of crossroads, at fence corner, on boulder; chiseled square-----	751.94
Leaf River, 0.2 mi. N. and 1.0 mi. E. from, 0.12 mi. E. of S¼ cor. sec. 30, T. 25 N., R. 10 E., 0.1 mi. E. of crossing of Chicago, Milwaukee, St. Paul & Pacific R. R., 2 ft. E. of SE. corner of concrete bridge over small creek, in wing wall; standard tablet stamped "Prim Trav Sta No 28 W 1921 714"-----	713.368
Reference mark, 1 ft. E. of tablet, 3 ft. E. of SE. corner of concrete bridge, on wing wall; chiseled square-----	713.34
Leaf River, 230 ft. E. of C. M. St. P. & P. R. R. sta., opposite water tank, at elevator building owned by D. Sprecker, in E. end of S. face of stone foundation wall, 4 ft. above ground; copper bolt leaded horizontally (U. S. C. E. B. M. 73)-----	708.637
10. From point 4 miles east of Forreton east 0.5 mile and north 1.1 miles along roads to Adeline (by G. W. Moore in 1930)	
[Continued from Forreton quadrangle, line 7]	
Adeline, 600 ft. W. of C. M. St. P. & P. R. R. sta., 20 ft. W. of rd. crossing, on S. side of track, on top of SE. corner of concrete base of signal alarm box; chiseled square-----	752.21

# ORION QUADRANGLE

[Latitude 41°15'–41°30'; longitude 90°15'–90°30']

HENRY, MERCER, AND ROCK ISLAND COUNTIES

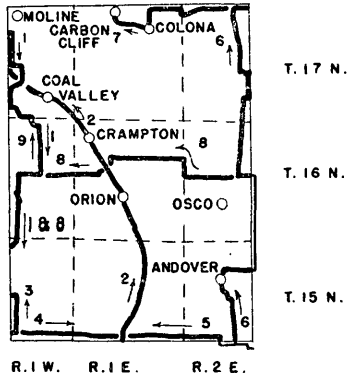


FIGURE 264.—Lines of leveling in Orion quadrangle.

1. From point near the south limits of Moline along roads generally south by way of Beulah Church to point 0.4 mile northeast of Sherrard (by G. E. Heebink in 1909)

[Continued from Milan quadrangle, line 1]

Coal Valley, 3.2 mi. NW. of, about 4 mi. SE. of Moline, 0.6 mi. S. of highway bridge over Rock River, 0.25 mi. N. of center of sec. 21, T. 17 N., R. 1 W., 43 ft. N. of center line of pavement of E.-W. rd., 56 ft. W. of center line of pavement of N.-S. highway, in concrete gutter slab, 1 in. above surface; standard iron post with bronze cap stamped "Prim Trav Sta No 28 1910 590" (recovered in 1914) <sup>70</sup>	Feet 586.828
Coal Valley, 1.5 mi. SW. of, 3.0 mi. N. and 0.5 mi. W. from Beulah Church, 0.25 mi. W. of SE. cor. sec. 34, T. 17 N., R. 1 W., on N. side of township-line rd., SE. of dwelling of C. Brehmes, 42 ft. W. of 18-in. ash tree, 2 ft. S. of fence; standard iron post with bronze cap stamped "728" (recovered in 1930)	727.418
Beulah Church, 0.25 mi. E. of SW. cor. sec. 14, T. 16 N., R. 1 W., in SE. corner of churchyard, in root of maple tree; 40-penny nail	758.15
Beulah Church, 1.3 mi. W. of, near SE. cor. sec. 16, T. 16 N., R. 1 W., at on-set crossroads, on N. side of E.-W. rd., in line with rd. S.; standard iron post with bronze cap stamped "1909 724" and "Prim Trav Sta No 29 1910" (recovered in 1930)	724.032
Beulah Church, 1.3 mi. W. thence 1.5 mi. S. from, 0.8 mi. NE. thence 1.7 mi. N. from Sherrard, 0.15 mi. E. of W¼ cor. sec. 27, T. 16 N., R. 1 W., inside fence, in root of willow tree; 40-penny nail	782.95

<sup>70</sup> In 1937 this bench mark was reset at the same location and lowered 2.140 ft. The figures given represent the new elevation.

Sherrard, 0.8 mi. NE. of, 0.25 mi. S. of NE. cor. sec. 4, T. 15 N., R. 1 W., 24 ft. N. and 24 ft. W. from crossroads; standard iron post with bronze cap stamped "791" and "Prim Trav Sta No 31 1910" (recovered in 1930) ----- *Feet*  
790.867

[Continued in Milan quadrangle, line 5]

2. From point near Ophiem north along Chicago, Burlington & Quincy Railroad to Orion, thence northwest along Chicago, Rock Island & Pacific Railway to point 2.2 miles northwest of Coal Valley, thence north along road to point near center of sec. 21, T. 17 N., R. 1 W. (by R. G. Clinite in 1914)

[Continued from Woodhull quadrangle, line 1]

Ophiem, 300 ft. S. and 300 ft. E. from sta., in SE. angle of junction of T-rd. S., 3 ft. E. of corner of hedge fence; standard iron post with bronze cap stamped "699" (recovered by U. S. C. & G. S. in 1935) ----- 697.312

Ophiem, 2.2 mi. NE. of, 1.0 mi. S. of Lynn, in NW. angle of rd. crossing, 45 ft. W. of center line of track, 100 ft. S. of R. R. bridge at mileage 222.75; standard iron post with bronze cap stamped "688" ----- 686.077

Lynn, 2.0 mi. N. of, 2.2 mi. S. of Orion, in NE. angle of rd. crossing, 70 ft. E. of center line of track, 2 ft. S. of fence; standard iron post with bronze cap stamped "760"<sup>77</sup> ----- 757.722

Orion, 0.3 mi. N. of C. B. & Q. R. R. sta., at viaduct on C. R. I. & P. Ry. over C. B. & Q. R. R., on SW. corner of concrete bridge seat; chiseled square ----- 758.93

Orion, 1.3 mi. NW. of, 2.4 mi. SE. of Crampton, in NE. angle of rd. crossing, 70 ft. N. of center line of track, on E. side of rd., 2 ft. W. of fence; standard iron post with bronze cap stamped "771" (recovered in 1930) ----- 769.453

Crampton (Sunny Hill post office), 140 ft. E. of sta., in SW. corner of schoolyard; standard iron post with bronze cap stamped "734" ----- 731.790

Coal Valley, 300 ft. E. of sta., 3.2 mi. NW. of Crampton, in NW. corner of small park adjoining right-of-way; standard iron post with bronze cap stamped "628" ----- 628.016

3. From point near south quarter corner sec. 28, T. 15 N., R. 1 W., along roads east 0.4 mile, thence north 2 miles, thence west 0.4 mile to point near north quarter corner sec. 21 (by S. R. Archer in 1921)

[A jog from Milan quadrangle, line 8]

Cable, 0.8 mi. E. thence 2.0 mi. S. from, 1.0 mi. N. of Griffin, 5.8 mi. W. of Ophiem, 0.3 mi. E. of Merryman School, near SW. cor. sec. 27, T. 15 N., R. 1 W., 170 ft. N. of junction of T-rd. N., on E. side of rd., 30 ft. S. of gate to barnyard, in root on NW. side of 18-in. tree, southernmost of two boxelder trees standing about 20 ft. apart in fence line; copper nail and washer ----- 709.87

Cable, 0.8 mi. E. thence 1.2 mi. S. from, 0.27 mi. N. of quarter corner between secs. 27 and 28, T. 15 N., R. 1 W., 100 ft. N. and 50 ft. E. from N. end of bridge over original natural channel of Edwards River, 25 ft. E. of fence, in root on SW. side of 30-in. wild-cherry tree; copper nail and washer ----- 653.49

<sup>77</sup> In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "J 58 1934," elevation 756.406 ft.

# 1580 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Cable, 0.8 mi. E. of, 2.5 mi. W. of Swedona, near SE. cor. sec. 16, T. 15 N., R. 1 W., 25 ft. N. and 65 ft. W. from crossroads, on N. side of E.-W. rd., 20 ft. W. of fence corner, in root on SE. side of 12-in. hickory tree; copper nail and washer-----	Feet 743.47
[Continued in Milan quadrangle, line 8]	
4. From road junction near south corner secs. 27 and 28, T. 15 N., R. 1 W., east along road to Ophiem (by S. R. Archer in 1921)	
Ophiem, 4.8 mi. W. of, near NW. cor. sec. 35, T. 15 N., R. 1 W., 400 ft. NE. of house standing on S. side of rd., on top of S. concrete head wall of culvert; chiseled square-----	704.36
Ophiem, 3.8 mi. W. of, near SE. cor. sec. 26, T. 15 N., R. 1 W., on N. side of rd., on E. side of private rd. N., in root on SW. side of 24-in. maple tree; copper nail and washer-----	734.86
Ophiem, 3.3 mi. W. of, 1.8 mi. S. of Swedona, near N $\frac{1}{4}$ cor. sec. 36, T. 15 N., R. 1 W., 20 ft. S. and 45 ft. E. from crossroads, 17 ft. E. of fence corner, in concrete post; standard tablet stamped "1921 751" and "Prim Trav Sta No 111 K 1924"-----	751.007
Reference mark, in NE. angle of crossroads, at fence corner, in root on SW. side of 24-in. maple tree; copper nail and washer-----	753.91
Ophiem, 2.4 mi. W. of, 0.12 mi. W. of N $\frac{1}{4}$ cor. sec. 31, T. 15 N., R. 1 E., on S. side of rd., at E. end of gate to field, opposite private rd. N. to dwelling, in root on E. side of 30-in. maple tree; copper nail and washer-----	781.46
Ophiem, 1.7 mi. W. of, at Tracy School, near SW. cor. sec. 29, T. 15 N., R. 1 E., in NE. angle of junction of T-rd. N., at SW. corner of schoolyard, in root on SW. side of 24-in. maple tree; copper nail and washer-----	730.50
Ophiem, 1.0 mi. W. of, 0.18 mi. E. of N $\frac{1}{4}$ cor. sec. 32, T. 15 N., R. 1 E., just E. of house standing on S. side of rd., at foot of hill, on S. concrete head wall of culvert; chiseled square-----	726.78
Ophiem, in W. part of town, on N. side of street, at SE. leg of steel water tower, on S. corner of concrete base; chiseled square-----	747.82
Ophiem, 300 ft. S. and 300 ft. E. from C. B. & Q. R. R. sta., on N. side of E.-W. street, at junction of T-rd. S., at SW. corner of harness shop of J. A. Schilberg, in root on S. side of 48-in. cottonwood tree; copper nail and washer-----	695.34
5. From point near north corner secs. 32 and 33, T. 15 N., R. 2 E., west along road to Ophiem (by H. S. Senseney in 1927)	
[Continued from Woodhull quadrangle, line 4]	
Ophiem, 4.5 mi. E. of, 3.0 mi. S. of Andover, 0.25 mi. E. of SW. cor. sec. 29, T. 15 N., R. 2 E., in NW. angle of junction of T-rd. W., in root of tree; copper nail and washer-----	725.08
Ophiem, 3.3 mi. E. of, near W. cor. secs. 30 and 31, T. 15 N., R. 2 E., 13 ft. S. and 65 ft. E. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 109 K 1924"-----	726.014
Reference mark, 570 ft. W. of tablet, on S. side of rd., on culvert; chiseled square-----	726.43
Ophiem, 2.3 mi. E. of, near NE. cor. sec. 35, T. 15 N., R. 1 E., in SW. angle of crossroads, on culvert; chiseled square-----	717.68
Ophiem, 1.3 mi. E. of, near NE. cor. sec. 34, T. 15 N., R. 1 E., 150 ft. W. of junction of T-rd. S., at SE. corner of culvert, on wing wall; chiseled square-----	727.00

6. From point 3 miles south and 1.3 miles east from Andover along roads generally north to road junction 0.25 mile east of south quarter corner sec. 33, T. 18 N., R. 2 E., thence east 0.8 mile to Hanna Center School (by S. R. Archer in 1930)

[Connects with line 4 in Woodhull quadrangle]

Andover, 3.0 mi. by rd. SE. of, 0.5 mi. N. and 6.0 mi. E. from Ophiem, 0.25 mi. E. of center of sec. 28, T. 15 N., R. 2 E., 30 ft. N. and 80 ft. W. from crossroads, in root on SE. side of 15-in. boxelder tree; copper nail and washer-----	<i>Feet</i> 697.11
Andover, 2.5 mi. SE. of, 0.25 mi. E. of quarter corner between secs. 21 and 28, T. 15 N., R. 2 E., at N. abutment of bridge over drainage ditch, on top of W. wing wall; chiseled square-----	686.00
Andover, 2.0 mi. SE. of, 0.2 mi. E. of center of sec. 21, T. 15 N., R. 2 E., 33 ft. S. and 25 ft. W. from center of crossroads, in concrete post; standard tablet stamped "T T 150 F 1929"-----	743.629
Andover, in SE. part of, near E $\frac{1}{4}$ cor. sec. 17, T. 15 N., R. 2 E., 120 ft. W. of junction of T-rd. W., on N. side of rd., at fence line, in root on S. side of 36-in. maple tree; copper nail and washer-----	798.06
Andover, in NE. part of, 0.14 mi. S. of quarter corner between secs. 8 and 9, T. 15 N., R. 2 E., on State Highway 81, 750 ft. S. of crossroads, 40 ft. S. of junction of street W., on N. end of W. head wall of concrete culvert; chiseled square-----	754.50
Andover, 0.5 mi. N. thence 1.5 mi. E. from, 3.5 mi. W. of Cambridge, near E $\frac{1}{4}$ cor. sec. 9, T. 15 N., R. 2 E., in SW. angle of crossroads, at driveway to field, on W. concrete head wall; chiseled square-----	777.92
[Jogs into Geneseo quadrangle, line 5]	
Osco, 1.4 mi. N. thence 1.0 mi. E. from, 5 mi. N. and 1.5 mi. E. from Andover, at Osco Center School, near SE. cor. sec. 16, T. 16 N., R. 2 E., 25 ft. N. and 120 ft. W. from crossroads, 3 ft. S. and 5 ft. E. from SW. corner of schoolyard, in concrete post; standard tablet stamped "T T 131 F 1929"-----	759.410
Reference mark, 240 ft. N. of crossroads, on top of S. end of W. head wall of concrete culvert; chiseled square-----	750.95
Osco Center School, 1.0 mi. N. of, 1.0 mi. S. of Leibe School, near SW. cor. sec. 10, T. 16 N., R. 2 E., 300 ft. N. of junction of T-rd. E., 55 ft. E. of center line of rd., on S. side of farm entrance, in root on S. side of 24-in. maple tree; copper nail and washer-----	734.45
Leibe School, 2.0 mi. E. of Morristown, near SE. cor. sec. 4, T. 16 N., R. 2 E., in NW. angle of crossroads, at SE. corner of schoolhouse, at SE. corner of concrete platform; chiseled square-----	725.75
Leibe School, 0.6 mi. N. of, near E $\frac{1}{4}$ cor. sec. 4, T. 16 N., R. 2 E., 10 ft. N. and 33 ft. W. from triangle at junction of rd. E., 3 ft. N. and 1 ft. E. from SE. corner of picket fence at farmhouse, in concrete post; standard tablet stamped "T T 147 F 1929"-----	718.386
Leibe School, 1.0 mi. N. of, near NW. cor. sec. 3, T. 16 N., R. 2 E., at offset crossroads, on S. side of E.-W. rd., 20 ft. E. of center line of rd. N., in root on NW. side of 8-in. hickory tree; copper nail and washer-----	709.87
Leibe School, 2.0 mi. N. of, near SE. cor. sec. 28, T. 17 N., R. 2 E., 275 ft. W. of rd. junction, on N. side of E.-W. rd., at entrance to church, on top of E. end of lowest concrete step; chiseled square-----	725.72
T. 17 N., R. 2 E., in SW $\frac{1}{4}$ sec. 27, at bridge over Mineral Creek, on N. parapet of E. concrete abutment; chiseled square-----	645.30

# 1582 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

T. 17 N., R. 2 E., 0.25 mi. S. of center of sec. 27, at School No. 151, 170 ft. S. of junction of rd. SW., on W. side of rd., at concrete steps at entrance to schoolhouse, on top of N. end of lowest step; chiseled square-----	<i>Feet</i> 721.95
T. 17 N., R. 2 E., near center of sec. 27, 40 ft. N. and 26 ft. E. from junction of T-rd. E. and private rd. W., in concrete post; standard tablet stamped "T T 146 F 1929"-----	716.066
T. 17 N., R. 2 E., near center of sec. 22, 5.0 mi. W. of Geneseo along U. S. Highway 6, 240 ft. E. of junction of T-rd. S., on top of S. head wall of concrete culvert; chiseled square-----	677.57
T. 17 N., R. 2 E., 0.2 mi. S. of NW. cor. sec. 22, 0.2 mi. S. of Howard School, at concrete highway culvert, on N. end of E head wall; chiseled square-----	643.58
T. 17 N., R. 2 E., near W¼ cor. sec. 15, 0.5 mi. N. of Howard School, 60 ft. N. and 20 ft. E. from junction of T-rd. E., in concrete post; standard tablet stamped "T T 145 F 1929"-----	643.836
T. 17 N., R. 2 E., near NE. cor. sec. 16, 190 ft. W. of junction of T-rd. W., on SE. wing wall of bridge; chiseled square-----	595.32
T. 17 N., R. 2 E., 0.25 mi. N. and 0.12 mi. W. from SE. cor. sec. 9, 30 ft. S. of S. end of rd. bridge over canal, at lock 26, on W. side of rd., on top of S. end of concrete retaining wall; bronze tablet stamped "Illinois and Mississippi Canal Bench Mark 54.7 B" <sup>78</sup> -----	595.787
T. 17 N., R. 2 E., 0.25 mi. N. and 0.12 mi. W. from SE. cor. sec. 9, on W. side of N. end of rd. bridge over canal, at lock 26, on top of N. end of concrete retaining wall; bronze tablet stamped "Illinois and Mississippi Canal Bench Mark 54.7 A"-----	595.748
T. 17 N., R. 2 E., 0.25 mi. NE. of center of sec. 9, at bridge over Green River, on top of E. triangular parapet of N. concrete abutment; chiseled square-----	586.32
T. 17 N., R. 2 E., 0.25 mi. E. of S¼ cor. sec. 4, 75 ft. N. of crossroads, on W. side of rd., in trunk on SE. side of 24-in. oak tree; spike driven horizontally-----	587.54
T. 18 N., R. 2 E., 0.25 mi. E. of S¼ cor. sec. 33, 0.8 mi. W. of Hanna Center School, 30 ft. N. and 3 ft. W. from junction of T-rd. S., 75 ft. E. of fence corner, in concrete post; standard tablet stamped "T T 140 F 1929"-----	674.720
Hanna Center School, near S¼ cor. sec. 34, T. 18 N., R. 2 E., 26 ft. N. and 30 ft. W. from junction of T-rd. N., 18 ft. W. of fence corner, in root on S. side of 36-in. maple tree; copper nail and washer-----	692.87

[Continued in Geneseo quadrangle, line 6]

7. From road junction 0.8 mile west of Hanna Center School west and south along roads to Colona, thence northwest along U. S. Highway 6 to Carbon Cliff (by S. R. Archer in 1930)

Hanna Center School, 1.8 mi. W. of, at Waite School, 0.25 mi. W. of SE. cor. sec. 32, T. 18 N., R. 2 E., 75 ft. E. of junction of private rd. N., on N. side of rd., in schoolyard, in root on SE. side of 12-in. walnut tree; copper nail and washer-----	648.00
Waite School, 0.5 mi. W. of, 1.6 mi. NE. of Dayton, 0.22 mi. E. of SW. cor. sec. 32, T. 18 N., R. 2 E., 140 ft. W. of junction of T-rd. N., on S. side of rd., at fence line, in root on S. side of 24-in. wild-cherry tree; copper nail and washer-----	654.70

<sup>78</sup>In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "N 52 1934," elevation 591.022 ft.

Dayton, 0.6 mi. NE. of, near center of NW¼ sec. 6, T. 17 N., R. 2 E., 25 ft. N. and 40 ft. W. from junction of rd. N., in concrete post; standard tablet stamped "T T 141 F 1929"-----	<i>Feet</i> 649.496
Dayton, 0.3 mi. N. of, 0.35 mi. S. of NE. cor. sec. 1, T. 17 N., R. 1 E., on W. side of rd., opposite junction of rd. NE., in root on SW. side of 20-in. maple tree; copper nail and washer-----	645.61
Dayton, 0.6 mi. N. of, near NE. cor. sec. 1, T. 17 N., R. 1 E., at offset crossroads, 105 ft. S. and 25 ft. W. from junction of T-rd. W., in field, in root on NW. side of 24-in. elm tree; copper nail and washer..	643.33
Dayton, 0.6 mi. N. thence 0.7 mi. W. from, 0.29 mi. E. of NW. cor. sec. 1, T. 17 N., R. 1 E., 40 ft. S. of rd., in field, in root on SW. side of 24-in. oak tree; copper nail and washer-----	667.44
Dayton, 0.6 mi. N. thence 1.7 mi. W. from, 1.2 mi. N. of Colona, 0.25 mi. E. of SW. cor. sec. 35, T. 18 N., R. 1 E., 20 ft. N. and 30 ft. E. from junction of T-rd. N., in concrete post; standard tablet stamped "T T 142 F 1929"-----	634.923
Reference mark, 310 ft. W. of tablet, at right-angle turn in rd., on W. side of N.-S. rd., in line with rd. E., in root on E. side of 15-in. boxelder tree; copper nail and washer-----	643.48
Colona, 0.2 mi. N. of, 0.25 mi. NE. of SW. cor. sec. 2, T. 17 N., R. 1 E., on top of S. end of W. head wall of concrete culvert; chiseled square..	611.70
Colona, at foot of SW. end of NW. wall of canal lock 28, in top of lower step; bronze tablet stamped "Illinois and Mississippi Canal Bench Mark 59.5 A" (recovered by U. S. C. & G. S. in 1935)-----	572.870
Colona, in top of SW. end of SE. wall of canal lock 28; bronze tablet stamped "Illinois and Mississippi Canal Bench Mark 59.5 B" (recovered by U. S. C. & G. S. in 1935)-----	578.880
Colona, 0.3 mi. W. of, on SW. side of U. S. Highway 6, at junction of rd. NE. across R. R. tracks, at concrete culvert under highway, on top of NW. end of SW. head wall; chiseled square-----	586.94
Colona, 1.0 mi. W. of, at E. end of highway bridge over Rock River, 5 ft. W. of E. end of S. coping, at foot of W. end of concrete end post, on wheel guard; chiseled square-----	584.07
Colona, 1.2 mi. W. of, 1.3 mi. SE. of Carbon Cliff, on S. side of W. span of highway bridge over Rock River, on concrete hub guard; chiseled square <sup>70</sup> -----	584.56
Carbon Cliff, 0.6 mi. S. of, at foot of bluff, on NE. side of triangle at junction of paved rd. W., on top of N. end of E. head wall of concrete culvert; chiseled square-----	577.02
Carbon Cliff, in SW. part of, on W. side of highway, at SE. corner of brickyard, on top of corner near S. end of W. head wall of concrete highway culvert; chiseled square-----	592.56

[Continued in Le Claire quadrangle, line 1]

8. From crossroads 1.4 miles north and 1 mile east from Osco generally west along roads to crossroads 1.3 miles west of Beulah Church, thence south to crossroads 0.8 mile northeast of Sherard (by M. W. Clark in 1930)

Osco Center School, 1.0 mi. W. of, 1.4 mi. N. of Osco, near NW. cor. sec. 21, T. 16 N., R. 2 E., 25 ft. S. and 35 ft. E. from crossroads, in root on W. side of 36-in. maple tree; copper nail and washer-----	769.64
--	--------

<sup>70</sup> Established in 1937 to replace a similar mark at the same location which was destroyed. The new mark is 0.410 ft. higher than the original.

## 1584 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Osco Center School, 2.0 mi. W. of, near NE. cor. sec. 19, T. 16 N., R. 2 E., 30 ft. S. and 35 ft. W. from crossroads, in root on N. side of 40-in. maple tree; copper nail and washer-----	Feet 765.21
Osco Center School, 3.0 mi. W. of, near NE. cor. sec. 24, T. 16 N., R. 1 E., 25 ft. S. and 20 ft. W. from junction of T-rd. E., in concrete post; standard tablet stamped "T T 132 F 1929"-----	771.906
Reference mark, 15 ft. S. and 75 ft. E. from tablet, in root on W. side of 18-in. maple tree; copper nail and washer-----	771.75
Osco Center School, 3.0 mi. W. thence 0.5 mi. N. from, near E $\frac{1}{4}$ cor. sec. 13, T. 16 N., R. 1 E., on top of N. end of W. head wall of concrete culvert; chiseled square-----	731.86
Osco Center School, 3.0 mi. W. thence 1.0 mi. N. from, 2.0 mi. N. and 3.2 mi. E. from Orion, near SE. cor. sec. 12, T. 16 N., R. 1 E., 30 ft. N. and 105 ft. W. from junction of T-rd. W., in root on SE. side of 40-in. maple tree; copper nail and washer-----	751.82
Orion, 2.0 mi. N. and 2.2 mi. E. from, near NW. cor. sec. 13, T. 16 N., R. 1 E., 20 ft. S. and 40 ft. E. from crossroads, in root on N. side of 45-in. soft-maple tree; copper nail and washer-----	747.17
Orion, 2.0 mi. N. and 1.2 mi. E. from, 185 ft. E. of SW. cor. sec. 11, T. 16 N., R. 1 E., on top of NE. wing wall of concrete bridge; chiseled square-----	708.61
Orion, 2.0 mi. N. and 0.7 mi. E. from, near N $\frac{1}{4}$ cor. sec. 15, T. 16 N., R. 1 E., 20 ft. S. and 60 ft. E. from crossroads, in concrete post; standard tablet stamped "T T 133 F 1929" <sup>80</sup> -----	753.293
Reference mark, 10 ft. S. and 95 ft. E. from tablet, in root on N. side of 18-in. basswood tree; copper nail and washer-----	753.86
Orion, 2.2 mi. NE. of along Chicago, Burlington & Quincy R. R., 0.17 mi. E. of NW. cor. sec. 15, T. 16 N., R. 1 E., 75 ft. W. of track, on SW. wing wall of rd. bridge; chiseled square <sup>81</sup> -----	689.31
Orion, 2.0 mi. N. and 0.3 mi. W. from, near N $\frac{1}{4}$ cor. sec. 16, T. 16 N., R. 1 E., 30 ft. S. and 60 ft. E. from junction of T-rd. S., in root on NE. side of 20-in. hackberry tree; copper nail and washer-----	751.72
Orion, 2.0 mi. N. and 0.7 mi. W. from, near SW. cor. sec. 9, T. 16 N., R. 1 E., 60 ft. N. and 35 ft. E. from crossroads, in root on SE. side of 12-in. maple tree; copper nail and washer-----	735.36
Orion, 1.3 mi. N. and 0.7 mi. W. from, 0.25 mi. N. of SW. cor. sec. 16, T. 16 N., R. 1 E., 27 ft. N. and 25 ft. E. from crossroads, in concrete post; standard tablet stamped "T T 134 F 1929"-----	767.334
Orion, 1.3 mi. NW. of, 60 ft. S. and 20 ft. W. from crossing of Chicago, Rock Island & Pacific Ry. and N.-S. rd., on top of concrete head wall of culvert; chiseled square <sup>82</sup> -----	770.62
Orion, 1.2 mi. W. thence 1.1 mi. N. from, near N $\frac{1}{4}$ cor. sec. 20, T. 16 N., R. 1 E., 25 ft. S. and 30 ft. E. from junction of T-rd. W., in root on W. side of 18-in. maple tree; copper nail and washer-----	769.57
Orion, 1.1 mi. N. and 1.6 mi. W. from, near SW. cor. sec. 17, T. 16 N., R. 1 E., 675 ft. E. of junction of T-rd. N., on W. end of N. head wall of bridge; chiseled square-----	729.89

<sup>80</sup> In 1941 this bench mark was tied to U. S. C. & G. S. standard disk stamped "G 53 1934," elevation 689.457 ft.

<sup>81</sup> In 1936 and 1941 this bench mark was tied to U. S. C. & G. S. standard disk stamped "G 53 1934," elevation 689.457 ft.

<sup>82</sup> Established as a reference mark to standard iron post with bronze cap stamped "771," described in line 2.

Orion, 1.1 mi. N. and 2.1 mi. W. from, 0.15 mi. E. of N $\frac{1}{4}$ cor. sec. 19, T. 16 N., R. 1 E., on SE. wing wall of concrete bridge; chiseled square--	Feet 720.02
Orion, 1.1 mi. N. and 2.7 mi. W. from, 1.8 mi. E. of Beulah Church, 40 ft. N. and 43 ft. E. from W. cor. secs. 18 and 19, T. 16 N., R. 1 E., on N. side of rd., 3 ft. W. of fence corner, in concrete post; standard tablet stamped "T T 135 F 1929"-----	734.078
Reference mark, 580 ft. W. of tablet, on NW. wing wall of concrete bridge; chiseled square-----	711.09
Beulah Church, 0.8 mi. E. of, near SW. cor. sec. 13, T. 16 N., R. 1 W., 75 ft. N. and 25 ft. E. from crossroads, in root on S. side of 30-in. maple tree; copper nail and washer-----	751.46
Beulah Church, 0.25 mi. E. of SW. cor. sec. 14, T. 16 N., R. 1 W., in NW. angle of crossroads, in SE. corner of churchyard, in root on S. side of 18-in. maple tree; copper nail and washer-----	757.73
Beulah Church, 1.3 mi. W. of, near NW. corner sec. 22, T. 16 N., R. 1 W., 0.1 mi. E. of offset crossroads, 565 ft. E. of iron post, on SE. wing wall of concrete bridge; chiseled square <sup>83</sup> -----	712.51
Beulah Church, 1.3 mi. W. thence 1.0 mi. S. from, near SE. cor. sec. 21, T. 16 N., R. 1 W., 40 ft. N. and 80 ft. W. from rd. junction, in root on SE. side of 20-in. maple tree; copper nail and washer-----	777.35
Beulah Church, 1.3 mi. W. thence 1.5 mi. S. from, 0.8 mi. NE. thence 1.7 mi. N. from Sherrard, 475 ft. N. and 50 ft. E. from W $\frac{1}{4}$ cor. sec. 27, T. 16 N., R. 1 W., 20 ft. inside fence, in root on W. side of 18-in. maple tree; copper nail and washer-----	780.20
Sherrard, 0.8 mi. NE. thence 1.2 mi. N. from, near W. cor. secs. 27 and 34, T. 16 N., R. 1 W., 40 ft. E. of N.-S. rd., in line with rd. W.; standard iron post with bronze cap stamped "Prim Trav Sta No 30 1910"-----	781.931
Sherrard, 0.8 mi. NE. thence 0.8 mi. N. from, 0.1 mi. N. of E $\frac{1}{4}$ cor. sec. 33, T. 16 N., R. 1 W., on NW. wing wall of concrete bridge; chiseled square-----	729.48
9. From Beulah Church north and northwest along roads to road junction 1.5 miles southwest of Coal Valley (by M. W. Clark in 1930)	
Beulah Church, 1.0 mi. N. of, 0.25 mi. E. of NW. cor. sec. 14, T. 16 N., R. 1 W., 160 ft. S. and 75 ft. E. from crossroads, on N. side of driveway to house, in root on SW. side of 36-in. maple tree; copper nail and washer-----	750.22
Beulah Church, 2.1 mi. N. of, 0.25 mi. E. and 0.11 mi. N. from SW. cor. sec. 2, T. 16 N., R. 1 W., 580 ft. N. of crossroads, on W. side of rd., inside fence, in root on E. side of large cottonwood tree; copper nail and washer-----	737.24

<sup>83</sup> Established as a reference mark to standard iron post with bronze cap stamped "1909 724" and "Prim Trav Sta No 29 1910," described in line 1.

# OTTAWA QUADRANGLE

[Latitude 41°15'–41°30'; longitude 88°45'–89°00']

## LA SALLE COUNTY

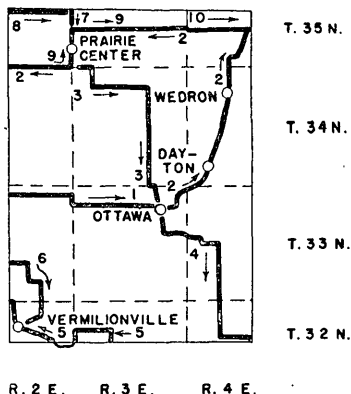


FIGURE 265.—Lines of leveling in Ottawa quadrangle.

1. From point 1.4 miles north and 0.5 mile east from Utica along roads alternately east and south to Ottawa (by R. G. Clinite in 1911)

[Connects with line 1 in La Salle quadrangle]

Utica, 1.4 mi. N. thence 1.0 mi. E. from, near W $\frac{1}{4}$ cor. sec. 3, T. 33 N., R. 2 E., in SE. angle of crossroads, in root of 54-in. double-trunked cottonwood tree; copper nail and washer-----	<i>Feet</i> 611.99
Utica, 1.4 mi. N. thence 2.0 mi. E. from, near E $\frac{1}{4}$ cor. sec. 3, T. 33 N., R. 2 E., in NW. angle of crossroads, on large boulder; chiseled square-----	627.98
Utica, 1.4 mi. N. thence 3.0 mi. E. from, near E $\frac{1}{4}$ cor. sec. 2, T. 33 N., R. 2 E., in SW. angle of crossroads, 1.6 ft. E. of fence corner; standard iron post with bronze cap stamped "628"-----	627.927
Reference mark, 60 ft. NE. of iron post, in NE. angle of crossroads, on NW. wing wall of stone bridge; chiseled square-----	627.34
Utica, 0.9 mi. N. and 5.0 mi. E. from, 3.5 mi. W. of La Salle County courthouse at Ottawa, near NE. cor. sec. 7, T. 33 N., R. 3 E., in SW. angle of crossroads, 6 ft. NE. of corner of hedgerows; standard iron post with bronze cap stamped "601"-----	600.830
Ottawa, 2.5 mi. W. of, near SE. cor. sec. 5, T. 33 N., R. 3 E., in NW. angle of junction of T-rd. N., on large boulder; chiseled square-----	595.94
Ottawa, 1.5 mi. W. of, at cor. secs. 3, 4, 9, and 10, T. 33 N., R. 3 E., on stone marking section corner; chiseled square-----	581.90
Ottawa, 1.1 mi. W. of, 0.1 mi. W. of S $\frac{1}{4}$ cor. sec. 3, T. 33 N., R. 3 E., in NE. angle of junction of rd. NW., on boulder; chiseled square-----	499.44
Ottawa, in W. wall of La Salle County courthouse, 1.5 ft. above sidewalk; aluminum tablet stamped "486"-----	485.252

Ottawa, in SE. corner of Washington Park, 10 ft. W. of sidewalk intersection, 0.6 ft. inside low stone wall; standard iron post with bronze cap stamped "483"-----	<i>Feet</i> 482.924
2. From Ottawa northeast along Chicago, Burlington & Quincy Railroad to Wedron, thence along roads to road junction 1 mile west of Serena, thence alternately west and south to point 3 miles south and 1.1 miles east from Triumph (by R. G. Clinite in 1911)	
Ottawa, 1.5 mi. NE. of, 2.5 mi. SW. of Dayton, in NW. angle of rd. crossing, on large boulder; chiseled square-----	494.80
Dayton, 210 ft. SE. of sta., on SE. side of right-of-way, 1 ft. S. of garden fence; standard iron post with bronze cap stamped "542"-----	541.694
Dayton, in front of sta.; top of rail-----	541.8
Wedron, 3.8 mi. NE. of Dayton, at SE. side of sta. platform; standard iron post with bronze cap stamped "521"-----	521.283
Wedron, in front of sta.; top of rail-----	523.5
Wedron, 0.5 mi. N. of, in SE $\frac{1}{4}$ sec. 4, T. 34 N., R. 4 E., at N. abutment of vehicular bridge over Indian Creek, on fourth course below top of W. end of abutment; chiseled square-----	518.06
Wedron, about 4 mi. NE. of, 1.0 mi. W. of Serena, 0.25 mi. E. of N $\frac{1}{4}$ cor. sec. 27, T. 35 N., R. 4 E., in SE. angle of offset crossroads, 38 ft. S. and 31 ft. E. from junction of rd. SW.; standard iron post with bronze cap stamped "629" (recovered in 1934) <sup>84</sup> -----	629.379
Serena, 4.3 mi. W. of, near SW. cor. sec. 19, T. 35 N., R. 4 E., in NW. angle of offset crossroads, 220 ft. N. of rd. E., on N. side of rd. W., 16 ft. W. of fence corner; standard iron post with bronze cap stamped "642" (recovered in 1934)-----	642.121
Serena, 4.8 mi. W. of, near S $\frac{1}{4}$ cor. sec. 24, T. 35 N., R. 3 E., in NW. angle of crossroads, in SE. corner of schoolyard, in root of 18-in maple tree; copper nail and washer-----	640.68
Serena, 5.8 mi. W. of, 1.0 mi. N. thence 4.7 mi. E. from Prairie Center, near S $\frac{1}{4}$ cor. sec. 23, T. 35 N., R. 3 E., in NW. angle of crossroads, 1 ft. S. of fence corner, on boulder; chiseled square-----	643.41
Prairie Center, 1.0 mi. N. thence 3.7 mi. E. from, near S $\frac{1}{4}$ cor. sec. 22, T. 35 N., R. 3 E., on N. side of rd., 3.6 ft. S. of fence, on boulder; chiseled square-----	649.40
Prairie Center, 1.0 mi. N. thence 2.7 mi. E. from, 0.2 mi. E. of N $\frac{1}{4}$ cor. sec. 28, T. 35 N., R. 3 E., in SE. angle of crossroads, 1 ft. NE. of fence corner; standard iron post with bronze cap stamped "661" (recovered in 1930)-----	660.792
Prairie Center, 1.0 mi. N. thence 1.5 mi. E. from, 0.2 mi. W. of S $\frac{1}{4}$ cor. sec. 20, T. 35 N., R. 3 E., on stone in masonry head wall at N. end of culvert; chiseled square-----	654.21
Prairie Center, 1.0 mi. N. thence 1.0 mi. E. from, near NW. cor. sec. 29, T. 35 N., R. 3 E., on S. concrete head wall of culvert; chiseled square-----	669.92
Prairie Center, 1.0 mi. N. of, near SE. cor. sec. 24, T. 35 N., R. 2 E., in NW. angle of crossroads, 2 ft. W. of fence corner; standard iron post with bronze cap stamped "672" <sup>85</sup> -----	671.925

<sup>84</sup> In 1931 this bench mark was moved 10.5 ft. south and 4 ft. east from its original location and reset 0.359 ft. higher in elevation. The revised description applies to its present location.

<sup>85</sup> In 1930 this bench mark was moved 5 ft. northwest of its original location and reset 0.012 ft. lower in elevation. The figures given represent the new elevation.

# 1588 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Reference mark, 55 ft. E. of iron post, on top of E. end of N. head wall of concrete culvert; chiseled square (established in 1930)-----	<i>Feet</i> 672.68
Prairie Center, 10 mi. S. and 1.0 mi. W. from, near NE cor. sec. 2, T. 34 N., R. 2 E., in SW. angle of junction of T-rd. S., 2 ft. N. and 4 ft. W. from fence corner; standard iron post with bronze cap stamped "658" (recovered in 1930)-----	657.883
Prairie Center, 1.0 mi. S. and 3.0 mi. W. from, 3.0 mi. S. and 1.4 mi. E. from Triumph, at S. cor. secs. 33 and 34, T. 35 N., R. 2 E., at W. end of jog in offset crossroads, on stone marking section corner; chiseled square-----	702.51
[Connects with line 3 in La Salle quadrangle]	
3. From crossroads 1 mile south of Prairie Center along roads alternately east and south to Ottawa (by R. G. Clinite in 1911)	
Prairie Center, 1.0 mi. S. and 1.0 mi. E. from, at N. cor. secs. 5 and 6, T. 34 N., R. 3 E., on stone marking section corner; chiseled square---	637.19
Prairie Center, 2.0 mi. S. and 1.0 mi. E. from, near SE. cor. sec. 6, T. 34 N., R. 3 E., in NW. angle of crossroads, 3 ft. E. of fence corner; standard iron post with bronze cap stamped "630"-----	629.986
Prairie Center, 2.0 mi. S. and 4.0 mi. E. from, 6.5 mi. N. of Ottawa, near SE. cor. sec. 3, T. 34 N., R. 3 E., in NW. angle of crossroads, 1.6 ft. SE. of fence corner; standard iron post with bronze cap stamped "625"-----	625.112
Ottawa, 3.5 mi. N. of, near SE. cor. sec. 22, T. 34 N., R. 3 E., in NW. angle of junction of T-rd. W., 1.5 ft. NE. of fence corner; standard iron post with bronze cap stamped "623"-----	623.047
Ottawa, 2.5 mi. N. of, near NE. cor. sec. 34, T. 34 N., R. 3 E., in SW. angle of crossroads, on S. head wall of concrete culvert; chiseled circle-----	623.73
Ottawa, 1.3 mi. N. and 0.4 mi. W. from, at S. cor. secs. 34 and 35, T. 34 N., R. 3 E., at junction of T-rd. N., on stone marking section corner; chiseled square-----	616.01
Ottawa, at La Salle Street bridge over Illinois and Michigan Canal, on top course at E. end of N. masonry abutment; chiseled square--	490.90
4. From Ottawa along roads alternately south and east to point 1 mile north and 4.2 miles east from Grand Ridge (by R. G. Clinite in 1911)	
Ottawa, at S. end of W. stone abutment of Main Street bridge over Fox River, in top of coping stone; copper bolt (U. S. C. E. B. M. 84) <sup>88</sup> -----	473.562
Ottawa, at E. end of N. stone abutment of C. B. & Q. R. R. bridge over Illinois River, in top of coping stone; copper bolt (U. S. C. E. B. M. 83)-----	473.365
Ottawa, at E. end of first pier S. of N. abutment of C. B. & Q. R. R. bridge over Illinois River, 8 in. W. of cutwater angle of coping; highest point in circle cut on top of coping stone (U. S. C. E. B. M. 64)-----	476.420
Ottawa, 3.5 mi. SE. of, near NW. cor. sec. 20, T. 33 N., R. 4 E., in SE. angle of junction of T-rd. E., 6.5 ft. NE. of corner of hedgerows; standard iron post with bronze cap stamped "610"-----	609.770

<sup>88</sup> In 1934 it was reported that this bench mark had been destroyed.

Ottawa, 4.5 mi. SE. of, near NW. cor. sec. 21, T. 33 N., R. 4 E., in SE angle of junction of rd. S., on stone at S. end of culvert; chiseled circle-----	<i>Feet</i> 638.75
Ottawa, 5.5 mi. SE. of, near SW. cor. sec. 21, T. 33 N., R. 4 E., on E side of rd., at junction of T-rd. W., on wing wall at SE corner of bridge; chiseled circle-----	617.87
Ottawa, 6.5 mi. SE. of, near NW. cor. sec. 33, T. 33 N., R. 4 E., in SE angle of crossroads, 6 ft. S. and 3 ft. W. from fence corner; standard iron post with bronze cap stamped "618"-----	617.817
Ottawa, 7.5 mi. SE. of, at S. cor. secs. 32 and 33, T. 33 N., R. 4 E., at offset crossroads, in line with rd. N., on stone marking section corner; chiseled circle-----	607.68
Ottawa, 8.5 mi. SE. of, at cor. secs. 4, 5, 8, and 9, T. 32 N., R. 4 E., at crossroads, on stone marking section corner; chiseled circle-----	623.98
Ottawa, 9.5 mi. SE. of, 1.0 mi. N. and 2.7 mi. E. from Grand Ridge, near SW. cor. sec. 9, T. 32 N., R. 4 E., in NE. angle of crossroads, 1.6 ft. SW. of fence corner; standard iron post with bronze cap stamped "614"-----	613.714
Grand Ridge, 1.0 mi. N. and 3.7 mi. E. from, at cor. secs. 9, 10, 15, and 16, T. 32 N., R. 4 E., at crossroads, on stone marking section corner; chiseled circle-----	629.22

[Continued in Marseilles quadrangle, line 1]

5. From point 1 mile north and 3.3 miles west from Grand Ridge along roads alternately north and west to point 1.3 miles north and 0.5 mile west from Vermilionville (by R. G. Clinite in 1911)

[Continued from Streator quadrangle, line 1]

Grand Ridge, 1.5 mi. N. and 3.3 mi. W. from, 5.0 mi. in air line E. of Vermilionville, near E¼ cor. sec. 8, T. 32 N., R. 3 E., in SW. angle of crossroads, 3.6 ft. E. of corner of hedgerows; standard iron post with bronze cap stamped "649"-----	648.690
Vermilionville, 4.0 mi. E. of, 80 ft. S. and 30 ft. W. from E¼ cor. sec. 7, T. 32 N., R. 3 E., in SW. angle of crossroads, on concrete retaining wall; chiseled circle-----	657.60

[Jogs into Streator quadrangle, line 2]

Vermilionville, in S. angle of junction of Chicago and Farm Ridge rds., 0.2 mi. NE. of W¼ cor. sec. 10, T. 32 N., R. 2 E., 2 ft. E. of fence corner, 1 ft. N. of fence; standard iron post with bronze cap stamped "644"-----	644.013
---	---------

[Connects with line 2 in La Salle quadrangle]

6. From point 1 mile southwest of Starved Rock along roads alternately east and south to Chicago road, thence southwest to Vermilionville (by R. G. Clinite in 1911)

[Connects with line 1 in La Salle quadrangle]

Starved Rock, 0.8 mi. S. and 0.6 mi. E. from, 2.2 mi. S. and 1.5 mi. E. from Utica, near S¼ cor. sec. 22, T. 33 N., R. 2 E., on N. side of E.-W. rd., at junction of rd. S., just W. of junction of rd. NE. to Illini Park, in root of 18-in. hickory tree; copper nail and washer-----	627.28
Starved Rock, 3.2 mi. SE. of, 1.3 mi. NE. thence 1.7 mi. N. from Vermilionville, 0.25 mi. E. of SW. cor. sec. 26, T. 33 N., R. 2 E., on N. side of rd., opposite junction of rd. S., 1.3 ft. S. of fence; standard iron post with bronze cap stamped "663"-----	662.573

# 1590 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

7. From point 2.1 miles north of Prairie Center south along range-line road 1.1 miles (by G. W. Moore in 1930)

[Continued from Earlville quadrangle, line 3]

Prairie Center, 2.0 mi. N. of, 6.5 mi. S. of Earlville, near SW. cor. sec. 18, T. 35 N., R. 3 E., in NE. angle of offset crossroads, 27 ft. N. and 57 ft. E. from junction of rd. E., 57 ft. N. and 57 ft. E. from junction of rd. W., inside fence, in root on W. side of 24-in. maple tree; copper nail and washer-----	Feet 675.82
---	----------------

8. From point 1.1 miles east of Triumph east along road to crossroads 2 miles north of Prairie Center (by G. W. Moore in 1930)

[Continued from La Salle quadrangle, line 8]

Triumph, 1.5 mi. E. of, near SE. cor. sec. 16, T. 35 N., R. 2 E., in NW. angle of crossroads, on top of S. end of W. head wall of concrete culvert; chiseled square-----	670.15
--	--------

Triumph, 2.5 mi. E. of, near SE. cor. sec. 15, T. 35 N., R. 2 E., 32 ft. N. and 290 ft. W. from junction of T-rd. S., 7 ft. N. and 16 ft. W. from fence corner, in root on S. side of 16-in. cherry tree; copper nail and washer-----	684.77
---	--------

Triumph, 3.0 mi. E. of, near S $\frac{1}{4}$ cor. sec. 14, T. 35 N., R. 2 E., 32 ft. N. and 120 ft. W. from crossroads, 75 ft. S. of SE. corner of house, in yard, in root on S. side of 18-in. boxelder tree; copper nail and washer-----	674.72
--	--------

Triumph, 3.5 mi. E. of, 2.0 mi. N. and 1.0 mi. W. from Prairie Center, near SE. cor. sec. 14, T. 35 N., R. 2 E., 230 ft. W. of junction of T-rd. N., on top at W. end of N. head wall of concrete culvert; chiseled square-----	669.18
---	--------

9. From road junction 1 mile south and 1 mile west from Prairie Center along roads alternately east and north to crossroads 1 mile north and 2.7 miles east from Prairie Center (by S. R. Archer in 1930)

Prairie Center, 0.4 mi. S. of, 0.15 mi. N. of E $\frac{1}{4}$ cor. sec. 36, T. 35 N., R. 2 E., on top of W. wing wall of S. abutment of concrete bridge; chiseled square-----	654.41
---	--------

Prairie Center, in NW. angle of crossroads, on top of N. end of W. head wall of concrete culvert under N.-S. rd.; chiseled square-----	672.88
--	--------

Prairie Center, 1.0 mi. N. and 0.8 mi. E. from, 0.3 mi. W. of SE. cor. sec. 19, T. 35 N., R. 3 E., on N. side of rd., 10 ft. W. of fence corner, in root on SE. side of 36-in. cottonwood tree; copper nail and washer-----	666.94
---	--------

Prairie Center, 1.0 mi. N. and 1.8 mi. E. from, 0.2 mi. E. of N $\frac{1}{4}$ cor. sec. 29, T. 35 N., R. 3 E., on S. end of concrete wing wall of culvert; chiseled square-----	646.79
---	--------

Prairie Center, 1.0 mi. N. and 2.3 mi. E. from, 0.22 mi. E. of NW. cor. sec. 28, T. 35 N., R. 3 E., at bridge over East Fork of Buck Creek, on SW. corner of concrete floor; chiseled square-----	648.54
---	--------

10. From crossroads 4.3 miles west of Serena east along road 3.4 miles (by C. G. Dickinson in 1934; leveled twice)

Serena, 3.5 mi. W. of, 0.25 mi. E. of NW. cor. sec. 29, T. 35 N., R. 4 E., on S. side of rd., at junction of T-rd. N., on E. head wall of small culvert; chiseled square-----	639.17
---	--------

Serena, 2.8 mi. W. of, near NE. cor. sec. 29, T. 35 N., R. 4 E., 20 ft. S. and 175 ft. W. from crossroads, on S. head wall of small culvert; chiseled square-----	<i>Feet</i> <b>636.61</b>
Serena, 2.2 mi. W. of, 0.15 mi. E. of S $\frac{1}{4}$ cor. sec. 21, T. 35 N., R. 4 E., on N. end of W. abutment of bridge over Indian Creek; chiseled square-----	<b>600.02</b>
Serena, 1.8 mi. W. of, near NE. cor. sec. 28, T. 35 N., R. 4 E., 24 ft. S. and 15 ft. W. from junction of farm rd. N., on top of E. end of head wall of small culvert; chiseled square-----	<b>633.86</b>

[Continued in Marseilles quadrangle, line 7]

# PECATONICA QUADRANGLE

[Latitude 42°15'–42°30'; longitude 89°15'–89°30']

STEPHENSON AND WINNEBAGO COUNTIES

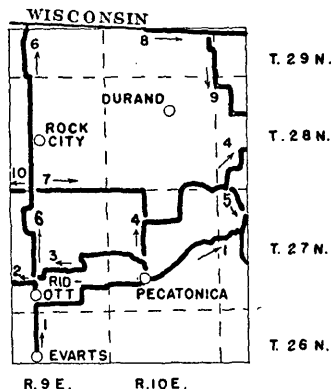


FIGURE 266.—Lines of leveling in Pecatonica quadrangle.

1. From point 0.2 mile south of Evarts north along road to Ridott, thence along roads alternately east and north by way of Pecatonica to point 1 mile southeast of Trask Bridge over Pecatonica River (by J. M. Perkins in 1915)

[Continued from Oregon quadrangle, line 1]

Evarts, 1.5 mi. N. of, 1.5 mi. S. of Ridott, 0.15 mi. N. of SE. cor. sec. 5, T. 26 N., R. 9 E., in NW. angle of crossroads, near fence corner; standard iron post with bronze cap stamped "1915 840"-----	Feet 839.046
Ridott, at S. limits of village, in SW. angle of crossroads, in root of boxelder tree; copper nail and washer-----	753.51
Ridott, 1.0 mi. E. of, near E¼ cor. sec. 33, T. 27 N., R. 9 E., in SW. angle of crossroads, in root of boxelder tree; copper nail and washer-----	772.79
Ridott, 2.5 mi. E. of, near center of sec. 35, T. 27 N., R. 9 E., in SE. angle of crossroads, near fence corner; standard iron post with bronze cap stamped "1915 804"-----	803.513
Ridott, 2.5 mi. E. and 0.7 mi. N. from, 0.4 mi. S. and 3.5 mi. W. from Pecatonica, 0.5 mi. S. of Farwell Bridge over Pecatonica River, 0.25 mi. S. of center of sec. 26, T. 27 N., R. 9 E., in SE. angle of junction of T-rd. E., near fence corner, in root of elm tree; spike-----	787.05
Pecatonica, 0.4 mi. S. and 1.0 mi. W. from, 0.15 mi. S. of W¼ cor. sec. 29, T. 27 N., R. 10 E., 40 ft. E. of junction of T-rd. S., in root of large maple tree; copper nail and washer-----	804.59
Pecatonica, at Woodman Opera House, on N. end of lower stone step at front door; chiseled square (recovered by U. S. C. & G. S. in 1920)-----	791.770
Pecatonica, 1.0 mi. NE. of, 0.15 mi. S. of NE. cor. sec. 28, T. 27 N., R. 10 E., in SW. angle of junction of rd. S., near fence corner; standard iron post with bronze cap stamped "1915 743"-----	742.135

Pecatonica, 4.3 mi. NE. of, 2.5 mi. in air line SW. of Trask Bridge, 0.15 mi. E. of center of sec. 13, T. 27 N., R. 10 E., at junction of rd. SE., 20 ft. N. of milk-loading platform, 2 ft. W. of fence; standard iron post with bronze cap stamped "1915 744"-----	<i>Feet</i> 743.564
Trask Bridge, 1.8 mi. S. and 0.5 mi. W. from, 0.25 mi. N. of center of sec. 18, T. 27 N., R. 11 E., at junction of T-rd. S., in root of wild-cherry tree; copper nail and washer-----	824.15

[Continued in Rockford quadrangle, line 1]

2. From Ridott along roads north and west to point 1.3 miles west of Ridott Bridge over Pecatonica River (by J. M. Perkins in 1915)

Ridott, 0.8 mi. N. of, near W $\frac{1}{4}$ cor. sec. 28, T. 27 N., R. 9 E., at N. abutment of Ridott Bridge, on NE. wing wall, on N. end of top stone; chiseled square (recovered in 1932)-----	751.86
Ridott, 0.8 mi. N. and 1.0 mi. W. from, near quarter cor. between secs. 29 and 30, T. 27 N., R. 9 E., on S. side of rd., opposite junction of T-rd. N., 2 ft. from fence; standard iron post with bronze cap stamped "1915 763" (recovered in 1932)-----	762.386
Reference mark, in NE. angle of junction of T-rd. N., on E. head wall of concrete culvert; chiseled square (established in 1932)-----	765.51

[Continued in Freeport quadrangle, line 1]

3. From Pecatonica generally west along roads on north side of Pecatonica River to Ridott Bridge (by W. S. Gehres in 1915)

Pecatonica, 0.3 mi. N. of, at N. end of concrete bridge over Pecatonica River, on top of E. concrete guard wall; chiseled square-----	750.75
Pecatonica, 0.8 mi. N. of, near W $\frac{1}{4}$ cor. sec. 21, T. 27 N., R. 10 E., at junction of T-rd. W., on E. side of N-S. rd., in line with N. right-of-way fence along E-W. rd.; standard iron post with bronze cap stamped "742"-----	741.608
Pecatonica, 1.0 mi. N. and 1.0 mi. W. from, near NW. cor. sec. 20, T. 27 N., R. 10 E., 30 ft. SE. of rd. junction, on N. end of E. retaining wall of culvert; chiseled square-----	746.68
Pecatonica, 1.0 mi. N. and 2.0 mi. W. from, near SW. cor. sec. 18, T. 27 N., R. 10 E., 100 ft. N. of junction of T-rd. E., in base of 42-in. elm tree; copper nail and washer-----	746.68
Pecatonica, 1.0 mi. N. and 2.8 mi. W. from, near NW. cor. sec. 24, T. 27 N., R. 9 E., at bridge over Pink Creek, on SW. corner of concrete floor; chiseled square-----	479.35
Pecatonica, 0.5 mi. N. and 3.2 mi. W. from, 0.5 mi. N. of Farwell Bridge, near center of SE $\frac{1}{4}$ sec. 23, T. 27 N., R. 9 E., 75 ft. S. of center line of rd. W., in yard of dwelling of J. R. Reider; standard iron post with bronze cap stamped "747"-----	746.394
Farwell Bridge, 0.5 mi. N. and 2.1 mi. W. from, 0.7 mi. N. and 0.5 mi. E. from Ridott Bridge, 0.25 mi. S. of center of sec. 21, T. 27 N., R. 9 E., in SE. angle of junction of T-rd. E., in base of oak tree; copper nail and washer-----	822.92

4. From road junction 0.8 mile north of Pecatonica along roads alternately north and east to point 1.3 miles south and 2.8 miles west from Harrison (by W. S. Gehres in 1915)

Pecatonica, 2.3 mi. N. of, near SW. cor. sec. 9, T. 27 N., R. 10 E., in NE. angle of junction of T-rd. E., in base of hickory tree; copper nail and washer-----	820.59
---	--------

# 1594 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Pecatonica, 2.8 mi. N. of, at Brick School, near W $\frac{1}{4}$ cor. sec. 9, T. 27 N., R. 10 E., in NE. angle of crossroads, on SW. corner of concrete floor of porch of schoolhouse; chiseled square (recovered in 1932)-----	Feet 870.63
Pecatonica, 2.8 mi. N. and 1.0 mi. E. from, near W $\frac{1}{4}$ cor. sec. 10, T. 27 N., R. 10 E., in NE. angle of junction of T-rd. N.; standard iron post with bronze cap stamped "813"-----	812.468
Pecatonica, 2.8 mi. N. and 2.0 mi. E. from, near E $\frac{1}{4}$ cor. sec. 10, T. 27 N., R. 10 E., on SE. side of rd., at angle in rd. from NE. to N., in base of linden tree; spike-----	745.71
T. 27 N., R. 10 E., near SW. cor. sec. 2, on E. side of rd., at jog, in base of oak tree; copper nail and washer-----	770.57
T. 28 N., R. 10 E., 0.2 mi. SW. of center of sec. 35, 450 ft. W. of N-S. quarter-section line, on NE. end of retaining wall of concrete bridge; chiseled square-----	750.93
T. 28 N., R. 10 E., 0.2 mi. N. of SW. cor. sec. 36, 2.2 mi. NW. of Trask Bridge, in NE. angle of junction of rd. N.; standard iron post with bronze cap stamped "Prim Trav Sta No 2 1915 752"-----	751.407
Trask Bridge, 0.5 mi. NW. of, near S $\frac{1}{4}$ cor. sec. 31, T. 28 N., R. 11 E., in NE. angle of junction of rd. N., in base of elm tree; copper nail and washer-----	760.52
Trask Bridge, 0.5 mi. NW. thence 1.0 mi. N. from, near S $\frac{1}{4}$ cor. sec. 30, T. 28 N., R. 11 E., in NE. angle of crossroads; standard iron post with bronze cap stamped "792"-----	791.445
Trask Bridge, 1.2 mi. N. and 0.3 mi. E. from, 0.25 mi. E. of SW. cor. sec. 29, T. 28 N., R. 11 E., at right-angle turn from E. to N. in rd., 125 ft. N. of center line of rd. W., 35 ft. E. of center line of rd. N., in base of oak tree; copper nail and washer-----	756.39
Trask Bridge, 2.3 mi. N. and 0.3 mi. E. from, 1.4 mi. S. and 3.2 mi. W. from Harrison, 0.25 mi. E. of SW. cor. sec. 20, T. 28 N., R. 11 E., on NW. side of junction of T-rd. S., in base of maple tree; copper nail and washer-----	796.64

[Continued in Rockford quadrangle, line 3]

5. From road junction 0.5 mile northwest of Trask Bridge southeast along road to point 1 mile southeast of Trask Bridge (by W. S. Gehres in 1915)

Trask Bridge over Pecatonica River, in NE $\frac{1}{4}$ sec. 6, T. 27 N., R. 11 E., at NW. end of bridge, in base of elm tree; copper nail and washer----	737.87
Trask Bridge, 0.8 mi. SE. of, 0.1 mi. W. of S $\frac{1}{4}$ cor. sec. 5, T. 27 N., R. 11 E., at SW. corner of bridge over small drain; top of eyebar-----	733.96

6. From Ridott generally north along roads to point in northeast quarter fractional sec. 20, T. 29 N., R. 9 E. (by S. R. Archer in 1932)

U. S. C. & G. S. standard disk stamped "S 6 1920"-----	757.174
Ridott, 1.8 mi. N. of, near W $\frac{1}{4}$ cor. sec. 21, T. 27 N., R. 9 E., in NE. angle of offset crossroads, on N. head wall of concrete culvert; chiseled square-----	784.80
Ridott, 2.4 mi. N. of, near SW. cor. sec. 16, T. 27 N., R. 9 E., 140 ft. N. of crossroads, on E. side of rd., on W. face at SW. corner of concrete foundation of barn; chiseled cross-----	879.30

Ridott, 3.4 mi. N. of, 0.07 mi. W. of SE. cor. sec. 8, T. 27 N., R. 9 E., 395 ft. W. of junction of T-rd. S., on N. side of rd., 6 ft. W. of W. end of gate at private rd. N., 15 ft. N. and 8 ft. E. from E. end of N. head wall of concrete culvert, on E. side of fence line N., in concrete post; standard tablet stamped "12 A 1932"-----	<i>Feet</i> 822.168
Reference mark, 15 ft. S. and 15 ft. W. from tablet, on N. head wall of concrete culvert; chiseled square-----	823.03
Ridott, 4.1 mi. N. and 0.5 mi. W. from, 0.3 mi. N. of center of sec. 8, T. 27 N., R. 9 E., 0.2 mi. S. of rd. junction, on N. end of W. head wall of concrete culvert; chiseled square-----	829.35
Ridott, 4.7 mi. N. of, 3.0 mi. S. and 0.4 mi. W. from Rock City, near W $\frac{1}{4}$ cor. sec. 4, T. 27 N., R. 9 E., on E. side of rd., 160 ft. N. of bridge over Brown Creek, on N. head wall of concrete culvert under private rd. E.; chiseled square-----	775.61
Rock City, 2.5 mi. S. and 0.4 mi. W. from, near NW. cor. sec. 4, T. 27 N., R. 9 E., in SE. angle of offset crossroads, 30 ft. S. and 135 ft. E. from junction of T-rd. S., 30 ft. S. and 15 ft. W. from junction of T-rd. N.; standard iron post with bronze cap stamped "Prim Trav Sta No 30 1911" (recovered in 1934)-----	845.155
Reference mark, in NE. angle of junction of T-rd. N., on N. head wall of concrete culvert under E.-W. rd.; chiseled square-----	846.55
Rock City, 1.5 mi. S. and 0.4 mi. W. from, near SE. cor. sec. 29, T. 28 N., R. 9 E., in NW. angle of crossroads, on W. head wall of concrete culvert; chiseled square-----	867.44
Rock City, 1.0 mi. S. and 0.4 mi. W. from, near E $\frac{1}{4}$ cor. sec. 29, T. 28 N., R. 9 E., in NW. angle of crossroads, on W. head wall of concrete culvert; chiseled square-----	847.84
Rock City, 0.5 mi. S. and 0.4 mi. W. from, near NW. cor. sec. 28, T. 28 N., R. 9 E., on E. side of rd., 210 ft. N. of crossroads, on E. side of fence, in root on SW. side of forked maple tree; copper nail and washer-----	892.78
Rock City, 0.4 mi. W. of, near E $\frac{1}{4}$ cor. sec. 20, T. 28 N., R. 9 E., in SW. angle of crossroads, on S. side of Chicago, Milwaukee, St. Paul & Pacific R. R., on W. head wall of concrete culvert; chiseled square-----	940.82
Rock City, 0.5 mi. N. and 0.4 mi. W. from, near W. cor. secs. 16 and 21, T. 28 N., R. 9 E., on S. side of driveway to dwelling, 2 ft. SW. of fence corner, in concrete post; standard tablet stamped "14 A 1932"-----	921.654
Rock City, 0.9 mi. N. and 0.4 mi. W. from, 0.06 mi. S. of E $\frac{1}{4}$ cor. sec. 17, T. 28 N., R. 9 E., 325 ft. S. of crossroads, 2 ft. S. of N. end of W. head wall of concrete culvert; chiseled square-----	880.06
Rock City, 1.5 mi. N. and 0.4 mi. W. from, near SE. cor. sec. 8, T. 28 N., R. 9 E., on W. side of rd., 25 ft. N. of section line, on W. head wall of concrete culvert; chiseled square-----	887.81
Rock City, 2.5 mi. N. and 0.4 mi. W. from, near SW. cor. sec. 4, T. 28 N., R. 9 E., in NE. angle of crossroads, on N. head wall of concrete culvert; chiseled square-----	909.67
Rock City, 3.5 mi. N. and 0.4 mi. W. from, near SE. cor. sec. 32, T. 29 N., R. 9 E., 120 ft. W. of junction of T-rd. S., on N. side of rd., at SW. corner of yard of farmhouse, 18 ft. of E. end of barnyard gate, in concrete post; standard tablet stamped "15 A 1932"-----	951.688
Reference mark, 45 ft. S. and 22 ft. E. from tablet, on S. head wall of concrete culvert; chiseled square-----	953.82

# 1596 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Rock City, 4.3 mi. N. and 0.6 mi. W. from, near center of NE $\frac{1}{4}$ sec. 32, T. 29 N., R. 9 E., on NW. end of NW. wing wall of bridge; chiseled square-----	Feet 925.57
Rock City, 5.5 mi. N. and 0.8 mi. W. from, at Pleasant View School, near N $\frac{1}{4}$ cor. sec. 29, T. 29 N., R. 9 E., on N. side of rd., at junction of rd. S., at SE. corner of schoolhouse, on NE. corner of lower step of concrete porch; chiseled square-----	1,029.52
[Connects with line 1 in Brodhead quadrangle]	
7. From crossroads 2.6 miles south and 0.4 mile west from Rock City east along township-line road 6 miles, thence south to crossroads 2.8 miles north of Pecatonica (by S. R. Archer in 1932)	
Rock City, 2.5 mi. S. and 0.6 mi. E. from, near SE. cor. sec. 33, T. 28 N., R. 9 E., in NW. angle of junction of T-rd. N., in fence corner, in root on SW. side of forked oak tree; copper nail and washer-----	811.13
T. 28 N., R. 9 E., 0.2 mi. E. of S $\frac{1}{4}$ cor. sec. 34, at W. abutment of steel bridge over dredged channel of Rock Run, on N. wing wall; chiseled square-----	769.15
T. 27 N., R. 9 E., near N $\frac{1}{4}$ cor. sec. 2, at Centennial School, 235 ft. E. of crossroads, 70 ft. E. and 40 ft. N. from NE. corner of schoolhouse, 2 ft. E. of corner post at NE. corner of schoolyard, in concrete post; standard tablet stamped "13 A 1932"-----	890.430
Reference mark, on NE. corner of concrete porch, at entrance to schoolhouse; chiseled square-----	889.13
T. 28 N., R. 9 E., near S $\frac{1}{4}$ cor. sec. 36, in NE. angle of crossroads, on E. head wall of concrete culvert; chiseled square-----	861.05
T. 27 N., R. 10 E., near NW. cor. sec. 6, in SE. angle of crossroads, on top of NW. corner of large concrete corner fence post; chiseled triangle-----	850.12
T. 27 N., R. 10 E., 35 ft. S. and 45 ft. E. from N. cor. secs. 5 and 6, 0.2 mi. N. of Blake School, in SE. angle of crossroads, in fence corner; standard iron post with bronze cap stamped "Prim Trav Sta No 3 1915"-----	870.812
T. 28 N., R. 10 E., near SE. cor. sec. 32, 4.2 mi. N. of Pecatonica, in NW. angle of crossroads, on N. head wall of concrete culvert; chiseled square-----	829.12
Pecatonica, 3.8 mi. N. of, 0.08 mi. N. of E $\frac{1}{4}$ cor. sec. 5, T. 27 N., R. 10 E., on S. end of W. head wall of concrete culvert; chiseled square-----	810.94
8. From point 4.4 miles north and 0.5 mile west from Durand east along Illinois-Wisconsin State line to point near northeast corner fractional section 20, T. 29 N., R. 11 E. (by S. R. Archer in 1932)	
[Continued from Brodhead quadrangle, line 2]	
Durand, 4.4 mi. N. thence 0.5 mi. W. from, near N. cor. fractional secs. 21 and 22, T. 29 N., R. 10 E., 25 ft. S. and 27 ft. W. from junction of State-line rd. and rd. S., 4 ft. W. of fence corner, in concrete post; standard tablet stamped "17 A 1932"-----	861.102
Durand, 4.4 mi. N. of, near N $\frac{1}{4}$ cor. fractional sec. 22, T. 29 N., R. 10 E., in SW. angle of junction of State-line rd. and rd. S., on SE. wing wall of concrete bridge; chiseled square-----	777.68
Durand, 4.4 mi. N. thence 0.5 mi. E. from, near NE. cor. fractional sec. 22, T. 29 N., R. 10 E., 110 ft. W. of rd. junction, on S. head wall of concrete culvert; chiseled square-----	776.59

Durand, 4.4 mi. N. thence 1.5 mi. E. from, 0.15 mi. E. of SW. cor. sec. 34, T. 1 N., R. 10 E., on N. side of State-line rd., opposite N. cor. fractional secs. 23 and 24, T. 29 N., R. 10 E. (Ill.), at Fairview School, in NW. angle of junction of rd. NE., at W. end of schoolhouse, on N. end of top concrete step of basement entrance; chiseled square <sup>89</sup> -----	Feet 790.42
T. 29 N., R. 10 E., 0.25 mi. W. of NE. cor. fractional sec. 24, 30 ft. S. and 42 ft. W. from right-angle turn in rd. from E. to S., 30 ft. S. of Illinois-Wisconsin State line; standard iron post with bronze cap stamped "Prim Trav Sta No 4 1915"-----	748.445
T. 29 N., R. 11 E., 0.1 mi. E. of NW. cor. fractional sec. 20, on W. bank of Sugar River, 100 ft. S. of Illinois-Wisconsin State line, 80 ft. S. of drainage ditch, in root on NW. side of 30-in. elm tree with triangular blaze; copper nail and washer-----	740.63

[Continued in Rockford quadrangle, line 13]

9. From point on Illinois-Wisconsin State line near northeast corner fractional sec. 24, T. 29 N., R. 10 E., along roads alternately south and east to point 4.2 miles east of Durand (by S. R. Archer in 1932)

T. 29 N., R. 11 E., near W $\frac{1}{4}$ cor. sec. 30, on E. side of range-line rd., 15 ft. S. of junction of rd. W., in root on NW. side of 15-in. elm tree; copper nail and washer-----	755.26
T. 29 N., R. 10 E., near E $\frac{1}{4}$ cor. sec. 36, in SW. angle of crossroads, in fence corner, in root on E. side of 36-in. maple tree; copper nail and washer-----	760.92
T. 29 N., R. 11 E., near SW. cor. sec. 31, 115 ft. E. of crossroads, on N. side of rd., inside fence, in root on NW. side of 30-in. walnut tree; copper nail and washer-----	783.20
T. 28 N., R. 11 E., near W $\frac{1}{4}$ cor. sec. 6, in NE. angle of offset crossroads, 175 ft. E. of junction of T-rd. E., on N. side of rd., 13 ft. S. and 45 ft. E. from SE. corner of cheese factory, at SE. corner of lot, 2 ft. S. of fence corner, in concrete post; standard tablet stamped "18 A 1932"--	816.575
Reference mark, 5 ft. N. and 20 ft. W. from tablet, in root on S. side of 18-in. hickory tree; copper nail and washer-----	817.16
T. 28 N., R. 11 E., 0.25 mi. E. of center of sec. 6, 350 ft. W. of junction of rd. S., on N. side of rd., on W. side of driveway to farmhouse, in root on SW. side of 24-in. maple tree; copper nail and washer-----	746.91
T. 28 N., R. 11 E., near center of NE $\frac{1}{4}$ sec. 7, 160 ft. N. of small bridge, at fence line on W. side of rd., in root on W. side of small forked oak tree; copper nail and washer-----	739.70
T. 28 N., R. 11 E., near center of SE $\frac{1}{4}$ sec. 7, 3.2 mi. E. of Durand, 30 ft. N. of crossing of C. M. St. P. & P. R. R., on top of W. end of 36-in. concrete tile culvert under N.-S. rd.; chiseled square-----	744.85

[Connects with line 3 in Rockford quadrangle]

10. From crossroads 2.5 miles south and 0.4 mile west from Rock City west along township-line road to point 1 mile south and 1.2 miles east from Dakota (by F. C. Pinch in 1934; leveled twice)

Rock City, 2.5 mi. S. and 0.9 mi. W. from, near N $\frac{1}{4}$ cor. sec. 5, T. 27 N., R. 9 E., on SE. wing wall of SW. abutment of bridge over Brown Creek; chiseled square-----	787.08
Rock City, 2.5 mi. S. and 1.1 mi. W. from, 1.0 mi. S. and 1.6 mi. E. from Dakota, 0.2 mi. E. of SW. cor. sec. 32, T. 28 N., R. 9 E., on N. side of rd., in root of tree; spike and washer-----	860.33

[Continued in Freeport quadrangle, line 3]

<sup>89</sup> This bench mark is in Wisconsin.

# PEOTONE QUADRANGLE<sup>87</sup>

[Latitude 41°15'–41°30'; longitude 87°45'–88°00']

COOK, KANKAKEE, AND WILL COUNTIES

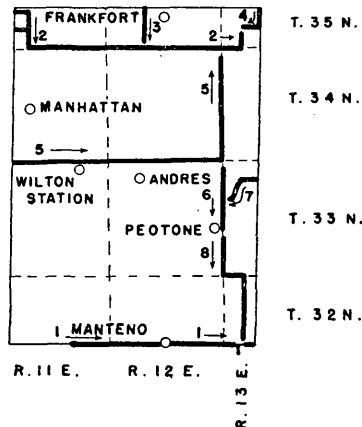


FIGURE 267.—Lines of leveling in Peotone quadrangle.

1. From point about 2 miles east of Deselm east along road to crossroads 3.8 miles east of Manteno, thence south 0.1 mile (by H. S. Senseney in 1922; releveled by W. C. Elledge in 1940)

[Continued from Kankakee quadrangle, line 1]

Deselm, 2.8 mi. E. of, 4.5 mi. W. of Manteno, 0.25 mi. W. of NE. cor. sec. 23, T. 32 N., R. 11 E., 14 ft. S. and 33 ft. E. from junction of T-rd. S., on S. head wall of concrete culvert; chiseled square (established in 1940)	Feet 649.71
Manteno, 3.2 mi. W. of, near NE. cor. sec. 24, T. 32 N., R. 11 E., 25 ft. S. and 16 ft. W. from junction of T-rd. S., on W. head wall of concrete culvert; chiseled square (established in 1940)	656.69
Manteno, 2.2 mi. W. of, near NE. cor. sec. 19, T. 32 N., R. 12 E., 25 ft. S. and 30 ft. W. from crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 32 W 1921 3 S" <sup>87a</sup>	666.938
Reference mark, 85 ft. SW. of iron post, on lower step of brick school-house; chiseled square (established in 1936)	668.19
Manteno, 1.0 mi. W. of, near SW. cor. sec. 16, T. 32 N., R. 12 E., 17 ft. N. and 24 ft. E. from crossroads, 1 ft. N. of angle of concrete culvert; chiseled square (established in 1940)	671.47
Manteno, 100 ft. SE. of Illinois Central R. R. sta., at NE. corner of street intersection, 6 ft. SW. of SW. corner of building, on concrete sidewalk; chiseled square (established in 1940)	692.51

<sup>87</sup> Subdivided into 7½-minute quadrangles Frankfort and Brisbane, which are partially mapped on a larger scale.

<sup>87a</sup> In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "E 26 1934," elevation 661.213 ft.

Manteno, 0.8 mi. E. of, near SE. cor. sec. 15, T. 32 N., R. 12 E., 40 ft. N. and 40 ft. W. from crossroads, in concrete post; aluminum tablet stamped "Prim Trav Sta No 33 W 1921 4 S" (not recovered in 1940) —	<i>Feet</i> 663.060
Manteno, 0.9 mi. E. of, 0.1 mi. E. of NW. cor. sec. 23, T. 32 N., R. 12 E., 500 ft. E. of crossroads, in SE wing wall of steel bridge over South Branch Rock Creek; standard tablet stamped "13 E 1940 669" (established in 1940) —	669.677
Manteno, 1.8 mi. E. of, near NW. cor. sec. 24, T. 32 N., R. 12 E., in SE. angle of crossroads, at entrance to schoolhouse, on N. end of bottom step; chiseled square (established in 1940) —	677.33
Manteno, 2.8 mi. E. of, near NE. cor. sec. 24, T. 32 N., R. 12 E., 24 ft. S. and 18 ft. W. from crossroads, on W. head wall of concrete culvert; chiseled square —	693.77
Manteno, 3.8 mi. E. of, 1.8 mi. W. of Whitaker, near NE cor. sec. 19, T. 32 N., R. 13 E., 25 ft. S. and 35 ft. W. from crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 34 W 1921 S 5" —	679.821
Reference mark, 125 ft. S. of iron post, on W. side of rd., in root of ash tree; spike (not recovered in 1940) —	678.78
[Continued in Kankakee quadrangle, line 2]	
2. From point near southwest corner sec. 20, T. 35 N., R. 11 E., along roads alternately east and south to road junction 1 mile east of corner of Cook and Will Counties, thence north along Ridgeland Avenue to crossroads 1 mile south and 4.2 miles east from Frankfort (by W. R. Broadus in 1924)	
[Continued from Wilmington quadrangle, line 6]	
Brisbane, 0.3 mi. N. and 1.2 mi. W. from, near NW. cor. sec. 28, T. 35 N., R. 11 E., 430 ft. S. and 15 ft. E. from junction of T-rd. S., in root on NW. side of 36-in. cottonwood tree; copper nail and washer —	666.13
Brisbane, 0.6 mi. S. and 1.2 mi. W. from, near NE. cor. sec. 32, T. 35 N., R. 11 E., 30 ft. S. and 20 ft. W. from crossroads, 10 ft. S. of fence corner, in root on NE. side of 14-in. hedge tree; copper nail and washer (recovered in 1925) —	680.50
Brisbane, 1.6 mi. S. and 1.2 mi. W. from, about 3 mi. N. of Manhattan, near SW. cor. sec. 33, T. 35 N., R. 11 E., 15 ft. N. and 20 ft. E. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 22 Y 1924 B 54" —	684.290
Reference mark, in SW. angle of crossroads, on top of concrete corner fence post; chiseled square —	690.63
Brisbane, 1.6 mi. S. and 0.3 mi. W. from, near NE. cor. sec. 4, T. 34 N., R. 11 E., 540 ft. W. of crossroads, on SE. stone wing wall of small bridge; chiseled square —	686.82
Brisbane, 1.6 mi. S. and 1.0 mi. E. from, 2.0 mi. S. of Spencer, 0.25 mi. E. of SW. cor. sec. 35, T. 35 N., R. 11 E., 22 ft. N. and 49 ft. W. from junction of T-rd. N., in concrete post; standard tablet stamped "Prim Trav Sta No 21 Y B 55" —	717.987
Reference mark, 660 ft. N. and 25 ft. E. from rd. junction, 22 ft. N. of gate to field, in root on W. side of 18-in. ash tree; copper nail and washer —	718.00

# 1600 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Brisbane, 1.6 mi. S. and 1.8 mi. E. from, near SE. cor. sec. 35, T. 35 N., R. 11 E., 10 ft. N. and 30 ft. W. from crossroads, at N. end of culvert, 15 in. E. of center of steel-plate wing wall; section of edge between two notches-----	Feet 719.63
Brisbane, 1.6 mi. S. and 2.8 mi. E. from, 2.0 mi. S. and 2.8 mi. W. from Frankfort, near NE. cor. sec. 1, T. 34 N., R. 11 E., 22 ft. S. and 45 ft. W. from crossroads, 2 ft. from fence, in concrete post; standard tablet stamped "Prim Trav Sta No 20 Y 1924 B 56"-----	734.927
Reference mark, 790 ft. W. of tablet, on S. head wall of concrete culvert; chiseled square-----	724.28
Frankfort, 2.0 mi. S. and 2.4 mi. W. from, near N $\frac{1}{4}$ cor. sec. 6, T. 34 N., R. 12 E., 13 ft. S. of junction of T-rd. N., on NW. wing wall of concrete culvert under private rd. S.; chiseled square <sup>89</sup> -----	724.77
Frankfort, 2.0 mi. S. and 1.7 mi. W. from, 0.25 mi. E. of SW. cor. sec. 32, T. 35 N., R. 12 E., 25 ft. N. and 35 ft. E. from crossroads, 4 ft. NE. of fence corner, in root on S. side of 14-in. maple tree; copper nail and washer-----	749.74
Frankfort, 2.0 mi. S. and 0.9 mi. W. from, 0.12 mi. W. of NE. cor. sec. 5, T. 34 N., R. 12 E., 19 ft. S. and 15 ft. W. from junction of T-rd. N., 1 ft. from fence, in concrete post; standard tablet stamped "Prim Trav Sta No 19 Y 1924 B 47" <sup>89</sup> -----	765.892
Reference mark, 12 ft. N. and 300 ft. W. from rd. junction, 55 ft. S. and 33 ft. E. from SE. corner of farmhouse, in root on N. side of 24-in. cottonwood tree; copper nail and washer-----	780.42
Frankfort, 2.0 mi. S. of, 0.15 mi. W. of SE. cor. sec. 33, T. 35 N., R. 12 E., 800 ft. W. of junction of T-rd. N., 40 ft. W. of silo, in root on W. side of 30-in. cottonwood tree; copper nail and washer-----	778.55
Frankfort, 2.0 mi. S. and 1.3 mi. E. from, 0.15 mi. E. of SW. cor. sec. 35, T. 35 N., R. 12 E., 23 ft. N. from junction of T-rd. S., 1 ft. from fence, in concrete post; standard tablet stamped "Prim Trav Sta No 18 Y 1924 B 57"-----	777.020
Reference mark, 25 ft. S. and 150 ft. E. from junction of T-rd. S., in root on NW. side of 24-in. cottonwood tree; copper nail and washer-----	776.06
Frankfort, 2.0 mi. S. and 2.3 mi. E. from, 0.09 mi. E. of SW. cor. sec. 36, T. 35 N., R. 12 E., 480 ft. E. of junction of T-rd. N., 320 ft. W. of junction of T-rd. S., 20 ft. N. of rd., in root on W. side of 12-in. wild-cherry tree; copper nail and washer-----	778.82
Frankfort, 2.0 mi. S. and 3.2 mi. E. from, near SE. cor. sec. 36, T. 35 N., R. 12 E., at corner of Cook and Will Counties, 24 ft. N. and 28 ft. W. from junction of Harlem Avenue and Steger rd., in concrete post; standard tablet stamped "Prim Trav Sta No 17 Y 1924 B 58" (recovered in 1934)-----	742.495
Reference mark, 54 ft. S. and 75 ft. E. from tablet, 1 ft. N. of fence, in fork of small wild-cherry tree; copper nail and washer-----	741.32
Frankfort, 1.0 mi. S. and 4.2 mi. E. from, near SE. cor. sec. 30, T. 35 N., R. 13 E., 29 ft. N. and 39 ft. W. from intersection of Ridgeland Avenue and Sauk Trail, in concrete post; standard tablet stamped "Prim Trav Sta No 16 Y 1924 B 59" (recovered in 1925)-----	746.837
Reference mark, 400 ft. S. and 30 ft. W. from intersection, 1 ft. W. of fence, in root on SE. side of 18-in. cottonwood tree; copper nail and washer (recovered in 1925)-----	757.05

<sup>89</sup> In 1940 this bench mark was tied to U. S. C. & G. S. standard disk stamped "P 26 1934," elevation 751.472 ft.

3. From point 1 mile west of Frankfort south along road 2 miles  
(by W. R. Broadus in 1924)

[Continued from Des Plaines quadrangle, line 5]

Frankfort, 1.0 mi. W. of, near E. cor. secs. 20 and 29, T. 35 N., R. 12 E., 45 ft. N. of Michigan Central R. R., 32 ft. W. of junction of T-rd. E., in concrete post; standard tablet stamped "Prim Trav Sta No 23 Y 1924 B 46" (recovered by U. S. C. & G. S. in 1935)-----	Feet 748.949
Reference mark, 105 ft. S. and 25 ft. E. from R. R. crossing, in root on SW. side of 12-in. maple tree; copper nail and washer-----	752.63

4. From point 5 miles east of Frankfort south along Central Avenue 1.1 miles and west along Sauk Trail to crossroads 1 mile south and 4.2 miles east from Frankfort (by S. R. Archer in 1925)

[Continued from Des Plaines quadrangle, line 12]

Frankfort, 5.0 mi. E. of, 2.8 mi. W. of Matteson, 65 ft. S. and 26 ft. E. from N. cor. secs. 28 and 29, T. 35 N., R. 13 E., 113 ft. S. of crossing of Michigan Central R. R. and Central Avenue, 2 ft. W. of fence, in concrete post; standard tablet stamped "Prim Trav Sta No 15 Y 1924" <sup>80</sup> -----	717.168
Frankfort, 1.0 mi. S. and 5.0 mi. E. from, near SE. cor. sec. 29, T. 35 N., R. 13 E., 165 ft. W. of junction of Central Avenue and Sauk Trail, on top of collar at N. end of tile culvert; chiseled square-----	724.72

5. From point 3 miles south and 0.8 mile west from Manhattan east along township-line road to crossroads 3.5 miles north and 0.4 mile east from Peotone, thence north along range-line road to Cook-Will county line (by Fred Freshour in 1934; releveled along township-line road by W. C. Elledge in 1940)

[Continued from Wilmington quadrangle, line 8]

Manhattan, 3.0 mi. S. and 0.7 mi. W. from, 0.5 mi. N. and 3.3 mi. W. from Wilton Sta., near SW. cor. sec. 32, T. 34 N., R. 11 E., 30 ft. N. and 20 ft. W. from junction of T-rd. S.; standard iron post with bronze cap stamped "Prim Trav Sta No 19 1915"-----	653.082
Wilton Sta., 0.5 mi. N. and 1.8 mi. W. from, near S $\frac{1}{4}$ cor. sec. 33, T. 34 N., R. 11 E., 18 ft. N. of rd., 9 ft. E. of fence; standard iron post with bronze cap stamped "23 1 1934"-----	684.382
Wilton Sta., 0.5 mi. N. and 0.3 mi. W. from, near SE. cor. sec. 34, T. 34 N., R. 11 E., 40 ft. N. and 20 ft. W. from junction of T-rd. N., in concrete post; standard tablet stamped "Prim Trav Sta No 78 S 1922"-----	685.906
Wilton Sta., 0.5 mi. N. of, 0.2 mi. W. of N $\frac{1}{4}$ cor. sec. 2, T. 33 N., R. 11 E., 35 ft. S. and 16 ft. E. from junction of T-rd. S., on top of E. head wall of concrete culvert under N.-S. rd.; chiseled square-----	691.46
Wilton Sta., 0.5 mi. N. and 0.9 mi. E. from, 0.25 mi. E. of SW. cor. sec. 36, T. 34 N., R. 11 E., 20 ft. N. and 40 ft. E. from junction of T-rd. N.; standard iron post with bronze cap stamped "23 2 1934" (recovered in 1941)-----	707.300
Wilton Sta., 0.5 mi. N. and 1.4 mi. E. from, 1.0 mi. N. and 1.0 mi. W. from Andres, near NE. cor. sec. 1, T. 33 N., R. 11 E., 30 ft. S. and 65 ft. W. from crossroads, in root on N. side of 16-in. oak tree; spike-----	709.36

\* In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "B 27 1934," elevation 716.048 ft.

# 1602 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Andres, 1.0 mi. N. of, near NW. cor. sec. 5, T. 33 N., R. 12 E., 20 ft. S. and 50 ft. E. from crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 77 S 1922" (recovered in 1941) <sup>61</sup> -----	<i>Feet</i> 723.888
Reference mark, 10 ft. N. and 5 ft. E. from iron post, on S. head wall of concrete culvert; chiseled square (established in 1940; recovered in 1941)-----	722.41
Andres, 1.0 mi. N. and 1.0 mi. E. from, 0.07 mi. E. of NW. cor. sec. 4, T. 33 N., R. 12 E., 28 ft. S. and 352 ft. E. from crossroads, in root on NW. side of 12-in. boxelder tree; spike (recovered in 1941)-----	717.38
Andres, 1.0 mi. N. and 1.5 mi. E. from, near N¼ cor. sec. 4, T. 33 N., R. 12 E., 25 ft. S. of rd., 10 ft. E. of fence, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "23 3 1934" (recovered in 1941)-----	730.234
Andres, 1.0 mi. N. and 2.0 mi. E. from, near NE. cor. sec. 4, T. 33 N., R. 12 E., 25 ft. S. and 200 ft. W. from crossroads, in root on NW. side of 12-in. ash tree; wire staple-----	734.36
Andres, 1.0 mi. N. and 2.5 mi. E. from, 110 ft. W. of S¼ cor. sec. 34, T. 34 N., R. 12 E., 25 ft. N. of rd., in root on SW side of 14-in. hedge tree; copper nail and washer-----	733.19
Andres, 1.0 mi. N. and 3.0 E. from, near NE. cor. sec. 3, T. 33 N., R. 12 E., 25 ft. S. and 55 ft. W. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 76 S 1922"-----	726.696
Andres, 1.0 mi. N. and 3.3 mi. E. from, 0.16 mi. W. of S¼ cor. sec. 35, T. 34 N., R. 12 E., on NW. wing wall of concrete bridge over Rock Creek; chiseled square-----	721.91
Andres, 1.0 mi. N. and 4.0 mi. E. from, near NW. cor. sec. 1, T. 33 N., R. 12 E., 25 ft. S. and 45 ft. E. from crossroads, at fence line, on top of boulder; chiseled square-----	759.86
Andres, 1.0 mi. N. and 4.7 mi. E. from, 0.25 mi. E. of S¼ cor. sec. 36, T. 34 N., R. 12 E., 24 ft. N. and 50 ft. W. from sixteenth corner, in root on SW. side of cherry tree; spike and washer (not recovered in 1940)-----	773.66
Andres, 1.0 mi. N. and 5.0 mi. E. from, 3.6 mi. N. of Peotone, 2.3 mi. S. and 2.0 mi. W. from Monee, near SW. cor. sec. 31, T. 34 N., R. 13 E., 60 ft. N. and 25 ft. E. from crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No. 75 S 1922"-----	766.124
Monee, 1.3 mi. S. and 2.0 mi. W. from, 0.06 mi. S. of NE. cor. sec. 36, T. 34 N., R. 12 E., 305 ft. S. and 30 ft. W. from crossroads, in root on E. side of maple tree; spike and washer-----	776.94
Monee, 0.9 mi. S. and 2.0 mi. W. from, 0.15 mi. S. of W¼ cor. sec. 30, T. 34 N., R. 13 E., on E. head wall of concrete culvert; chiseled square-----	769.15
Monee, 0.3 mi. S. and 2.0 mi. W. from, near SW. cor. sec. 19, T. 34 N., R. 13 E., 55 ft. N. and 25 ft. E. from crossroads, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "23 4 1934"-----	774.958
Monee, 0.2 mi. N. and 2.0 mi. W. from, 0.17 mi. N. of W¼ cor. sec. 19, T. 34 N., R. 13 E., 28 ft. E. of rd., 3 ft. W. of fence, on top of boulder; chiseled square-----	790.46
Monee, 0.7 mi. N. and 2.0 mi. W. from, near SE. cor. sec. 13, T. 34 N., R. 12 E., 72 ft. N. and 11 ft. W. from crossroads, on SW. wing wall of concrete bridge; chiseled square-----	756.21

<sup>61</sup> In 1936 and 1940 this bench mark was tied to U. S. C. & G. S. standard disk stamped "K 26 1934," elevation 725.307 ft.

Monee, 1.0 mi. N. and 2.0 mi. W. from, 0.2 mi. S. of E $\frac{1}{4}$ cor. sec. 13, T. 34 N., R. 12 E., 20 ft. W. of rd., in fence line, in root on NE. side of apple tree; spike and washer-----	<i>Feet</i> 774.89
Monee, 1.7 mi. N. and 2.0 mi. W. from, near SE. cor. sec. 12, T. 34 N., R. 12 E., 50 ft. N. and 20 ft. W. from crossroads; standard iron post with bronze cap stamped "23 5 1934"-----	747.130
Monee, 2.7 mi. N. and 2.0 mi. W. from, 3.0 mi. S. and 3.2 mi. E. from Frankfort, near NW. cor. sec. 7, T. 34 N., R. 13 E., 140 ft. S. and 30 ft. E. from crossroads, in root on W. side of hedge tree; spike and washer-----	761.94
6. From crossroads 3.6 miles north of Peotone south along range-line road to Peotone (by Fred Freshour in 1934; releveled by W. C. Elledge in 1940)	
Peotone, 3.1 mi. N. of, 0.2 mi. S. of W $\frac{1}{4}$ cor. sec. 6, T. 33 N., R. 13 E., 12 ft. E. of rd., on top of SE. wing wall of bridge; chiseled square-----	719.71
Peotone, 2.1 mi. N. of, near E $\frac{1}{4}$ cor. sec. 12, T. 33 N., R. 12 E., 28 ft. S. of fence, on NW. wing wall of concrete bridge; chiseled square-----	704.92
Peotone, 1.6 mi. N. of, near SW. cor. sec. 7, T. 33 N., R. 13 E., 42 ft. N. and 25 ft. E. from crossroads, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "23 6 1934"-----	710.589
Peotone, 0.7 mi. N. of, 600 ft. N. of SW. cor. sec. 18, T. 33 N., R. 13 E., 40 ft. E. of N.-S. rd., on top of W. end of concrete culvert under State Highway 49; chiseled square-----	718.51
Peotone, on E. side of town, near W $\frac{1}{4}$ cor. sec. 19, T. 33 N., R. 13 E., 30 ft. N. and 35 ft. E. from crossroads, on head wall of concrete culvert; chiseled square-----	702.26
Peotone, in SE. part of town, near SW. cor. sec. 19, T. 33 N., R. 13 E., 45 ft. N. and 25 ft. E. from junction of T-rd. W., in concrete post; standard tablet stamped "Prim Trav Sta No 74 S 1922"-----	688.985
7. From point 3.2 miles south of Monee along roads generally southwest to crossroads 1.6 miles north of Peotone (by W. C. Elledge in 1940)	
[Continued from Crete quadrangle, line 5]	
Peotone, about 3.0 mi. NE. of, 3.7 mi. SW. of Monee along State Highway 49, 0.2 mi. W. of NE. cor. sec. 7, T. 33 N., R. 13 E., 18 ft. S. thence 36 ft. E. from crossroads, on S. head wall of concrete culvert; chiseled square-----	724.02
8. From Peotone along roads alternately south and east to crossroads 3.8 miles east of Manteno (by W. C. Elledge in 1940)	
Peotone, 1.3 mi. S. of, near SE. cor. sec. 25, T. 33 N., R. 12 E., 17 ft. N. and 20 ft. W. from crossroads, on N. end of concrete culvert; chiseled square-----	688.60
Peotone, 2.3 mi. S. of, near SE. cor. sec. 36, T. 33 N., R. 12 E., 18 ft. N. and 20 ft. W. from junction of T-rd. N., on W. head wall of concrete culvert; chiseled square-----	684.91
Peotone, 2.3 mi. S. and 1.0 mi. E. from, near S. cor. secs. 31 and 32, T. 33 N., R. 13 E., on Kankakee-Will county line, 25 ft. N. of junction of T-rd. S.; standard iron post with bronze cap stamped "Prim Trav Sta No 73 S 1922 693"-----	693.262

# 1604 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Peotone, 3.3 mi. S. and 1.2 mi. E. from, near SW. cor. sec. 5, T. 32 N., R. 13 E., 72 ft. N. and 30 ft. E. from crossroads, in schoolyard, in root on W. side of double-trunked hedge tree, third in row from S. end; copper nail and washer-----	<i>Feet</i> 687.38
Peotone, 4.3 mi. S. and 1.2 mi. E. from, 1.0 mi. N. and 3.8 mi. E. from Manteno, near SW. cor. sec. 8, T. 32 N., R. 13 E., 200 ft. N. of crossroads, on E. side of rd., at fence line, in root on SW. side of 30-in. maple tree; copper nail and washer-----	687.99

# PLANO QUADRANGLE

[Latitude 41°30'–41°45'; longitude 88°30'–88°45']

DE KALB, KANE, KENDALL, AND LA SALLE COUNTIES

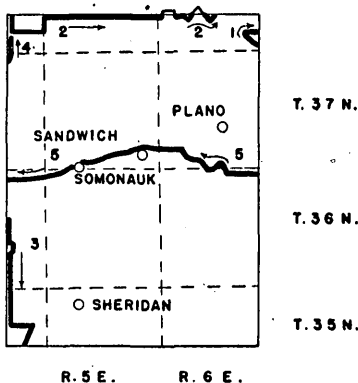


FIGURE 268.—Lines of leveling in Plano quadrangle.

1. Along roads northwest and east in secs. 35 and 36, T. 38 N., R. 6 E. (by S. R. Archer in 1923; releveled by H. S. Hall in 1941)

[A jog from Yorkville quadrangle, line 2]

T. 38 N., R. 6 E., 0.15 mi. S. of NE. cor. sec. 35, in SW. angle of rd. junction, in root on W. side of 10-in. apple tree; copper nail and washer—	Feet 661.78
--	----------------

[Continued in Yorkville quadrangle, line 2]

2. From point 1.3 miles south and 1.3 miles east from Waterman generally east along roads to point 0.9 mile south and 0.6 mile east from Big Rock (by G. F. Williams in 1923)

[Continued from Sycamore quadrangle, line 4]

Waterman, 1.6 mi. S. and 1.3 mi. E. from, 0.25 mi. E. of NW. cor. sec. 26, T. 38 N., R. 4 E., about 900 ft. S. of crossroads, on E. side of rd., 30 ft. S. and 10 ft. E. from SW. corner of field fence, 30 ft. N. of concrete sidewalk to dwelling, in yard, in root on E. side of 48-in. maple tree; copper nail and washer—	788.48
--	--------

Waterman, 2.6 mi. S. and 1.3 mi. E. from, 5.7 mi. E. of Shabbona Grove, 0.25 mi. E. of NW. cor. sec. 35, T. 38 N., R. 4 E., in SW. angle of offset crossroads, 25 ft. S. of center of E.-W. rd., in line with rd. N., 30 ft. W. of center line of rd. S., 3 ft. N. of fence corner; standard iron post with bronze cap stamped "Prim Trav Sta No 27 1914 W 22" (recovered in 1934)—	750.863
---	---------

Reference mark, in SE. angle of offset crossroads, in NW. corner of field fence, in root on S. side of 12-in. maple tree; copper nail and washer (recovered in 1934)—	751.14
---	--------

T. 38 N., R. 4 E., 0.25 mi. E. of NW. cor. sec. 36, on S. side of rd., 150 ft. E. of corner of pasture fence, inside fence, in root on NE. side of 24-in. maple tree; copper nail and washer—	756.69
---	--------

# 1606 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

T. 38 N., R. 5 E., near SW. cor. sec. 30, in NE. angle of crossroads, on N. end of E. head wall of concrete bridge over creek; chiseled square-----	<i>Feet</i> 739.58
T. 38 N., R. 4 E., near SE. cor. sec. 24, in NW. angle of crossroads, 3 ft. W. of fence corner, in concrete post; standard tablet stamped "23 W 1923"-----	764.301
Reference mark, in SE. angle of crossroads, 10 ft. E. of fence corner, in root on N. side of 12-in. maple tree; copper nail and washer-----	765.56
T. 38 N., R. 5 E., near SW. cor. sec. 20, on NW. wing wall of W. limestone abutment of iron bridge over Somonauk River; chiseled square-----	740.87
T. 38 N., R. 5 E., 0.1 mi. E. of NW. cor. sec. 28, on S. side of rd., 2 ft. E. of E. end of gate of driveway to barnyard, in barnyard, in root on N. side of 18-in. maple tree; copper nail and washer-----	745.09
T. 38 N., R. 5 E., near SE. cor. sec. 21, on E. side of driveway, 35 ft. N. of entrance to yard of dwelling, in root on W. side of 30-in. maple tree; copper nail and washer-----	738.27
T. 38 N., R. 5 E., near S $\frac{1}{4}$ cor. sec. 22, 1.5 mi. S. and 0.5 mi. W. from Hinckley, in NE. angle of crossroads, 5 ft. N. of fence corner, in concrete post; standard tablet stamped "24 W 1923"-----	743.518
Reference mark, in SW. angle of crossroads, 15 ft. S. of corner of hedge-rows, on W. side of 24-in. maple tree; copper nail and washer-----	744.50
T. 38 N., R. 5 E., near N $\frac{1}{4}$ cor. sec. 26, 1.5 mi. S. and 0.5 mi. E. from Hinckley, 340 ft. W. of junction of T-rd. S., on S. side of rd., 3 ft. W. and 3 ft. S. from NE. corner of yard fence of dwelling, in root on E. side of 8-in. cottonwood tree; copper nail and washer-----	732.45
T. 38 N., R. 5 E., near N $\frac{1}{4}$ cor. sec. 25, 105 ft. S. of crossroads, on W. side of N.-S. rd., on S. end of W. limestone head wall of culvert; chiseled square-----	716.40
T. 38 N., R. 6 E., near N $\frac{1}{4}$ cor. sec. 30, in yard of dwelling, on S. side of rd., in line with fence on W. side of rd. N., in root on NW. side of 15-in. maple tree; copper nail and washer-----	727.14
[Jogs into Sycamore quadrangle, line 5]	
T. 38 N., R. 6 E., near quarter corner between secs. 21 and 28, 1.0 mi. S. and 0.5 mi. W. from Big Rock, on SE. side of rd., 0.15 mi. NE. of junction of NW.-SE. rd., in root on N. side of 36-in. oak tree; copper nail and washer-----	700.60
[Jogs into Sycamore quadrangle, line 6]	
T. 38 N., R. 6 E., near center of section 27, 1.3 mi. S. and 0.3 mi. E. from Big Rock, on SE. side of rd., in line with center of rd. NW., 6 ft. SW. of W. post of gate to field, 5 ft. S. and 1 ft. W. of danger signal, in concrete post; standard tablet stamped "26 W 1923"-----	682.116
Reference mark, in N. angle of rd. junction, 60 ft. NE. thence 20 ft. N. from SW. corner of woodland fence, in root on S. side of 18-in. white oak tree; copper nail and washer-----	684.46
[Continued in Sycamore quadrangle, line 7]	
3. From point 1.4 miles south and 2.5 miles east of Leland generally south along roads to point 2 miles south and 2.7 miles west from Sheridan (by C. G. Dickinson in 1934)	
[Continued from Earlville quadrangle, line 4]	
Leland, 1.9 mi. S. and 2.5 mi. E. from, near SE. cor. sec. 15, T. 36 N., R. 4 E., 375 ft. N. of junction of T-rd. N., on W. side of rd., at fence line, in root on E. side of 24-in. oak tree; spike-----	675.10

Leland, 2.9 mi. S. and 2.5 mi. E. from, near NE. cor. sec. 27, T. 36 N., R. 4 E., 34 ft. S. and 23 ft. W. from junction of T-rd. N; standard iron post with bronze cap stamped "Prim Trav Sta No 30 W 1921"-----	<i>Feet</i> 668.734
T. 36 N., R. 4 E., 0.25 mi. E. of W $\frac{1}{4}$ cor. sec. 26, in W. end of NE. abutment of bridge over Little Indian Creek; monel-metal rivet-----	649.08
T. 36 N., R. 4 E., 0.25 mi. S. of N. cor. secs. 34 and 35, in NW. corner of concrete floor of bridge over Little Indian Creek; monel-metal rivet---	631.26
T. 35 N., R. 4 E., near NE. cor. sec. 2, 123 ft. S. and 26 ft. E. from junction of T-rd. S., 12 ft. N. of 30-in. oak tree, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "4 4 1934"-----	650.529
T. 35 N., R. 4 E., near W $\frac{1}{4}$ cor. sec. 2, 0.5 mi. N. and 3.5 mi. W. from Sheridan, 60 ft. SW. of dwelling of H. Brandenburg, at S. end of row of trees, in root on W. side of 15-in. maple tree; spike-----	658.75
Sheridan, 0.5 mi. S. and 3.5 mi. W. from, about 550 ft. N. of W $\frac{1}{4}$ cor. sec. 11, T. 35 N., R. 4 E., on E. side of rd., at fence line, in root on W. side of lone 20-in. walnut tree; spike-----	652.73
Sheridan, 1.0 mi. S. and 3.5 mi. W. from, near NW. cor. sec. 14, T. 35 N., R. 4 E., 20 ft. S. and 55 ft. E. from crossroads, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "4 5 1934"-----	644.223
Sheridan, 1.0 mi. S. and 2.3 mi. W. from, about 2.0 mi. in air line NE. of Serena, 0.19 mi. E. of NW. cor. sec. 13, T. 35 N., R. 4 E., 20 ft. S. and 25 ft. E. from crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 2 1911" <sup>a</sup> -----	637.589
Serena, 1.3 mi. in air line N. of, near E $\frac{1}{4}$ cor. sec. 14, T. 35 N., R. 4 E., in S. end of W. head wall of concrete culvert; monel-metal rivet----	637.63

[Continued in Marseilles quadrangle, line 8]

4. From point about 3 miles north of Victor northeast and north to crossroads 2.6 miles south and 1.3 miles east from Waterman (by C. G. Dickinson in 1934)

[Continued from Earlville quadrangle, line 5]

Victor, 3.0 mi. N. and 0.3 mi. E. from, 3.6 mi. S. and 1.3 mi. E. from Waterman, 0.2 mi. E. of SW. cor. sec. 35, T. 38 N., R. 4 E., 35 ft. N. and 30 ft. E. from crossroads, on N. end of N. wing wall of culvert; chiseled square-----	751.53
---	--------

5. From point 0.3 mile northwest of Fox generally west along roads and U. S. Highway 34 by way of Sandwich and Somonauk to road junction 0.6 mile north and 2.5 miles east from Leland (by E. W. Martin in 1934)

[Connects with line 1 in Yorkville quadrangle]

Fox, 0.3 mi. N. and 1.0 mi. W. from, 0.3 mi. N. of center of sec. 2, T. 36 N., R. 6 E., on S. river rd., in W. end of N. head wall of culvert; monel-metal rivet-----	628.46
Fox, 2.5 mi. NW. of, 2.0 mi. S. of Plano, near S $\frac{1}{4}$ cor. sec. 34, T. 37 N., R. 6 E., at highway bridge over Fox River, on E. side of S. abutment, in top of third step below top; monel-metal rivet-----	570.75
Plano, 2.5 mi. SW. of, 4.2 mi. SE. of Sandwich, near S. cor. secs. 33 and 34, T. 37 N., R. 6 E., 20 ft. N. and 29 ft. E. from junction of rd. W., in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "5 2 1934"-----	586.208

<sup>a</sup> In 1943 it was reported that this bench mark had obviously been disturbed as it was out of plumb, and was to be reset. No further information is available.

# 1608 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Sandwich, 3.8 mi. SE. of, 0.25 mi. SE. of center of sec. 33, T. 37 N., R. 6 E., in NE. head wall of culvert; monel-metal rivet-----	Feet 636.32
Sandwich, 3.0 mi. SE. of, near W¼ cor. sec. 33, T. 37 N., R. 6 E., 16 ft. E. of section line, in NE. head wall of concrete culvert; monel-metal rivet-----	634.36
Sandwich, 2.6 mi. E. of, 0.25 mi. S. of N¼ cor. sec. 32, T. 37 N., R. 6 E., 550 ft. SE. of N-S. quarter section line, on NE. head wall of concrete culvert; chiseled square-----	639.45
Sandwich, 2.5 mi. E. of, 0.25 mi. S. of N¼ cor. sec. 32, T. 37 N., R. 6 E., 80 ft. NW. of N-S. quarter-section line, on S. end of W. head wall of concrete culvert; chiseled square-----	630.79
Sandwich, 2.4 mi. E. of, 0.1 mi. W. of quarter corner between secs. 29 and 32, T. 37 N., R. 6 E., at rd. fork, in root on S. side of 24-in. oak tree; copper nail and washer-----	647.55
Sandwich, 2.0 mi. E. of, near SW. cor. sec. 29, T. 37 N., R. 6 E., 36 ft. N. and 34 ft. E. from crossroads, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "5 3 1934" <sup>82</sup> -----	640.582
Sandwich, 1.5 mi. E. of, near S¼ cor. sec. 30, T. 37 N., R. 6 E., on E. end of N. head wall of concrete culvert; chiseled square-----	639.91
Sandwich, 29 ft. S. and 34 ft. W. from intersection of South Main and Church Streets, at intersection of sidewalks, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "5 4 1934" <sup>83</sup> -----	666.526
Reference mark 1, 25 ft. S. and 166 ft. E. from intersection of South Main and Church Streets, in root on N. side of 36-in. elm tree; copper nail and washer <sup>83</sup> -----	666.95
Reference mark 2, 15 ft. N. and 434 ft. W. from intersection of South Main and Church Streets, on curb on N. side of Church Street; chiseled square-----	662.38
Sandwich, 0.8 mi. SW. of, near center of NW¼ sec. 35, T. 37 N., R. 5 E., 415 ft. E. of crossroads, in S. head wall of concrete culvert; monel-metal rivet-----	673.22
Sandwich, 1.6 mi. SW. of, 1.5 mi. NE. of Somonauk, near center of sec. 34, T. 37 N., R. 5 E., 32 ft. W. of E. end of bridge over Somonauk River, in N. brick and concrete parapet; monel-metal rivet-----	660.00
Somonauk, 0.8 mi. NE. of, 0.2 mi. SW. of line between secs. 33 and 34, T. 37 N., R. 5 E., on N. head wall of concrete culvert; chiseled square-----	679.42
Somonauk, 0.7 mi. NE. of, near center of sec. 33, T. 37 N., R. 5 E., 65 ft. W. of N-S. quarter-section line, on N. head wall of concrete culvert; chiseled square-----	680.92
Somonauk, 27 ft. N. and 33 ft. E. from crossing of U. S. Highway 34 and N-S. street, 0.2 mi. S. of W¼ cor. sec. 33, T. 37 N., R. 5 E., at sidewalk intersection, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "5 5 1934" <sup>84</sup> -----	685.166
Reference mark, 290 ft. W. of standard disk, 58 ft. N. of highway, in root on S. side of 24-in. elm tree; copper nail and washer <sup>84</sup> -----	685.00
Somonauk, 0.6 mi. SW. of, near S¼ cor. sec. 32, T. 37 N., R. 5 E., on N. head wall of concrete culvert; chiseled square-----	686.83

<sup>82</sup> In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "X X 49 1934," elevation 643.181 ft.

<sup>83</sup> In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "X 49 1934," elevation 670.300 ft.

<sup>84</sup> In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "U 49 1934," elevation 686.974 ft.

Somonauk, 1.0 mi. SW. of, near NE. cor. sec. 6, T. 36 N., R. 5 E., 350 ft. W. of crossroads, on S. head wall of concrete culvert; chiseled square-----	<i>Feet</i> 681.36
Somonauk, 2.0 mi. SW. of, near N. cor. secs. 1 and 6, T. 36 N., Rs. 4 and 5 E., 28 ft. S. of highway, 5 ft. S. and 1 ft. W. from W. end of culvert under driveway to field, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "5 6 1934"-----	686.143
Somonauk, 2.2 mi. SW. of, in NE $\frac{1}{4}$ sec. 1, T. 36 N., R. 4 E., in NE. angle of crossroads, on E. head wall of concrete culvert; chiseled square-----	682.93
Somonauk, 2.6 mi. SW. of, near center of sec. 1, T. 36 N., R. 4 E., on N. head wall of concrete culvert; chiseled square-----	681.31
Somonauk, 3.0 mi. SW. of, near E $\frac{1}{4}$ cor. sec. 2, T. 36 N., R. 4 E., 14 ft. N. and 22 ft. W. from crossroads, on N. head wall of concrete culvert; chiseled square-----	683.88
Somonauk, 3.3 mi. SW. of, 0.25 mi. E. of center of sec. 2, T. 36 N., R. 4 E., on S. head wall of concrete culvert; chiseled square-----	683.30

[Connects with line 4 in Earlville quadrangle]

# PROPHETSTOWN QUADRANGLE

[Latitude 41°30'–41°45'; longitude 89°45'–90°00']

BUREAU, HENRY, AND WHITESIDE COUNTIES

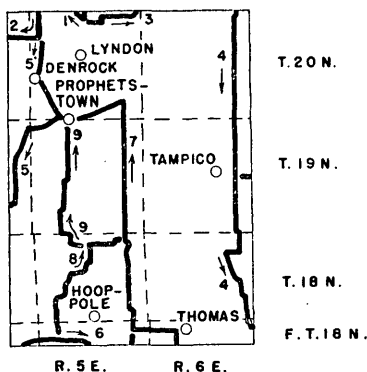


FIGURE 269.—Lines of leveling in Prophetstown quadrangle.

1. From point 2.4 miles north of Lyndon along roads south 0.2 mile, thence northwest 0.5 mile (by H. S. Senseney in 1927)

[A jog from Morrison quadrangle, line 1]

Lyndon, 2.2 mi. N. of, 0.25 mi. N. of SW. cor. sec. 3, T. 20 N., R. 5 E., 90 ft. S. of junction of rd. NW., on E. side of rd., in root of tree; copper nail and washer-----

Feet  
667.72

Lyndon, 2.2 mi. N. thence 0.5 mi. NW. from, near center of sec. 4, T. 20 N., R. 5 E., in NW. corner of rd. junction, in root of tree; copper nail and washer-----

666.52

[Continued in Morrison quadrangle, line 1]

2. From point 4 miles south of Morrison south along State Highway 78 to road junction 0.9 mile north and 2.5 miles west from Lyndon, thence west along road to point 1.6 miles east of Fenton (by H. S. Senseney in 1927)

[Continued from Morrison quadrangle, line 1]

Morrison, 4.5 mi. S. of, 1.9 mi. N. and 2.5 mi. W. from Lyndon, near quarter corner between secs. 6 and 7, T. 20 N., R. 5 E., at junction of T-rd. W., on E. edge of paved rd., in line with fence E.; chiseled square-----

624.02

Lyndon, 0.9 mi. N. and 2.5 mi. W. from, 3.3 mi. E. of Fenton, near S¼ cor. sec. 7, T. 20 N., R. 5 E., 50 ft. N. of crossroads, on W. side of highway, in concrete post; standard tablet stamped "14 S 1927"-----

622.309

Reference mark, 31 ft. S. of tablet, on culvert; chiseled square-----

625.46

Fenton, 2.0 mi. E. of, about 0.25 mi. W. of S¼ cor. sec. 12, T. 20 N., R. 4 E., on N. side of rd., 160 ft. E. of gate to residence of A. C. Roselieb, in root of tree; copper nail and washer-----

600.17

[Continued in Joslin quadrangle, line 5]

3. From road junction 2.2 miles north of Lyndon generally east along roads to point on Chicago, Burlington & Quincy Railroad 0.5 mile southwest of Sands, thence northeast along railroad 0.3 mile (by H. S. Senseney in 1927)

Lyndon, 1.9 mi. N. of, near SE. cor. sec. 4, T. 20 N., R. 5 E., near school-house, 12 ft. N. and 25 ft. W. from junction of T-rd. E., in concrete post; standard tablet stamped "T T Sta No 80 JLS 1927"-----	<i>Feet</i> 642.667
Lyndon, 1.9 mi. N. thence 1.0 mi. E. from, near W. cor. secs. 2 and 11, T. 20 N., R. 5 E., at junction of T-rd. W., on E. side of rd., in root of tree; copper nail and washer-----	620.49
Lyndon, 2.2 mi. N. and 2.0 mi. E. from, 0.5 mi. SW. thence 0.6 mi. W. from Sands, 0.25 mi. N. of S. cor. secs. 1 and 2, T. 20 N., R. 5 E., on S. side of rd., 30 ft. E. of fence line S., in root of tree; copper nail and washer-----	627.65

[Continued in Morrison quadrangle, line 5]

4. From point 1.3 miles south and 0.1 mile west from Como generally south along roads to point 0.2 mile south and 1.5 miles west from New Bedford (by H. S. Senseney in 1927)

[Continued from Morrison quadrangle, line 6]

Como, 1.7 mi. S. and 0.3 mi. W. from, 1.0 mi. E. thence 8.0 mi. N. from Tampico, near W. cor. secs. 1 and 12, T. 20 N., R. 6 E., at junction of rd. W., on E. side of rd., in root of tree; copper nail and washer-----	616.69
Tampico, 1.0 mi. E. thence 6.8 mi. N. from, 0.25 mi. S. of NW. cor. sec. 13, T. 20 N., R. 6 E., 120 ft. S. of T-rd. E., on E. side of rd., in root of tree; copper nail and washer-----	635.08
Tampico, 1.0 mi. E. thence 6.0 mi. N. from, near NE. cor. sec. 23, T. 20 N., R. 6 E., 40 ft. S. and 12 ft. W. from crossroads, in concrete post; standard tablet stamped "22 S 1927" and "T T Sta No 134 JLS 1927"---	635.440
Reference mark, 450 ft. S. of tablet, on W. side of rd., in root of tree; copper nail and washer-----	635.69
Tampico, 1.0 mi. E. thence 4.0 mi. N. from, near SW. cor. sec. 25, T. 20 N., R. 6 E., 210 ft. N. of crossroads, on E. side of rd., in root of tree; copper nail and washer-----	633.61
Tampico, 1.0 mi. E. thence 3.0 mi. N. from, near NW. cor. sec. 1, T. 19 N., R. 6 E., 35 ft. S. and 40 ft. E. from small jog in rd., 80 ft. NE. of residence of J. L. Kophamer, 35 ft. S. of fence line E., in concrete post; standard tablet stamped "23 S 1927" and "T T Sta No 133 JLS 1927"---	627.944
Reference mark, 900 ft. S. of tablet, in top of SW. pier of small bridge; bolt-----	626.75
Tampico, 1.0 mi. E. thence 1.9 mi. N. from, 825 ft. S. of NE. cor. sec. 11, T. 19 N., R. 6 E., on W. side of rd., in root of tree; copper nail and washer-----	626.13
Tampico, 1.0 mi. E. thence 1.0 mi. N. from, near NW. cor. sec. 13, T. 19 N., R. 6 E., 115 ft. S. of crossroads, on E. side of rd., in hedge root; copper nail and washer-----	636.35
Tampico, 1.0 mi. E. of, at Maple Hill School, near NW. cor. sec. 24, T. 19 N., R. 6 E., 25 ft. S. and 35 ft. E. from crossroads, in concrete post; standard tablet stamped "24 S 1927" and "T T Sta No 132 JLS 1927" (recovered in 1930)-----	657.270
Reference mark, 140 ft. N. of tablet, on E. side of rd., in root of tree; copper nail and washer (recovered in 1930)-----	653.46
Tampico, 1.0 mi. E. thence 1.0 mi. S. from, near NW. cor. sec. 25, T. 19 N., R. 6 E., 200 ft. S. of crossroads, on E. side of rd., in root of tree; copper nail and washer-----	655.37

# 1612 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Tampico, 1.0 mi. E. thence 2.0 mi. S. from, near SE. cor. sec. 26, T. 19 N., R. 6 E., 150 ft. N. of crossroads, on W. side of rd., in root of tree; copper nail and washer-----	Feet 637.72
Tampico, 1.0 mi. E. thence 3.0 mi. S. from, near SE. cor. sec. 35, T. 19 N., R. 6 E., in NW. angle of junction of Bureau-Whiteside county-line rd., in root of tree; copper nail and washer-----	641.34
Tampico, 3.0 mi. S. and 1.1 mi. E. from, 4.5 mi. E. thence 1.0 mi. N. from Yorktown, near Bureau-Whiteside county line, about 600 ft. E. of SW. cor. sec. 36, T. 19 N., R. 6 E., near N. cor. secs. 1 and 2, T. 18 N., R. 6 E., 18 ft. N. of junction of T-rd. S., on E. side of fence, in concrete post; standard tablet stamped "25 S 1927" and "T T Sta No 131 JLS 1927"-----	644.877
Yorktown, 4.5 mi. E. of, near NE. cor. sec. 11, T. 18 N., R. 6 E., 100 ft. W. of junction of E-W. rd., on S. side of rd., in root of tree; copper nail and washer-----	635.71
Yorktown, 4.3 mi. E. of, at bridge 56 over Illinois and Mississippi Canal feeder; top of SW. pier-----	645.68
Yorktown, 3.7 mi. E. of, 0.25 mi. E. of NW. cor. sec. 11, T. 18 N., R. 6 E., in SW. angle of crossroads, in root of tree; copper nail and washer-----	636.46
Yorktown, 3.7 mi. E. thence 1.6 mi. SE. from, 0.25 mi. NW. of E $\frac{1}{4}$ cor. sec. 14, T. 18 N., R. 6 E., at bridge over Illinois and Mississippi Canal feeder, on S. end of E. abutment; chiseled square-----	648.13
Yorktown, 3.7 mi. E. thence 1.9 mi. SE. from, 2.3 mi. N. and 2.1 mi. W. from New Bedford, near E $\frac{1}{4}$ cor. sec. 14, T. 18 N., R. 6 E., 60 ft. W. of junction of rd. S., on S. side of rd., in concrete post; standard tablet stamped "26 S 1927" and "T T Sta No 130 JLS 1927"-----	669.794
New Bedford, 1.4 mi. N. and 2.1 mi. W. from, 0.1 mi. N. of quarter corner between secs. 23 and 24, T. 18 N., R. 6 E., at junction of E-W. rd., on S. side of rd., in root of tree; copper nail and washer-----	636.29
New Bedford, 1.3 mi. N. and 1.9 mi. W. from, 0.25 mi. E. of W $\frac{1}{4}$ cor. sec. 24, T. 18 N., R. 6 E., in SW. angle of junction of rd. S., in root of tree; copper nail and washer-----	643.14
New Bedford, 1.9 mi. W. of, near center of SW $\frac{1}{4}$ sec. 25, T. 18 N., R. 6 E., 110 ft. E. of right-angle bend in rd., 55 ft. N. of rd., in root of apple tree; copper nail and washer-----	632.58
New Bedford, 0.2 mi. S. and 1.3 mi. W. from, at Fairfield Church, near S $\frac{1}{4}$ cor. sec. 25, T. 18 N., R. 6 E., in NW. angle of junction of E-W. rd., in root of tree; copper nail and washer-----	641.48

[Continued in Walnut quadrangle, line 2]

5. From road junction 0.9 mile north and 2.5 miles west from Lyndon south along State Highway 78 and road to Denrock, thence southeast along Chicago, Burlington & Quincy Railroad to Prophets-town, thence southwest along roads to point 0.5 mile south and 2.3 miles east from Spring Hill (by J. A. Shumate in 1927)

Lyndon, 0.4 mi. N. and 2.5 mi. W. from, 1.7 mi. N. of Denrock, near center of sec. 18, T. 20 N., R. 5 E., 115 ft. S. and 30 ft. E. from junction of T-rd. E., in root on W. side of 15-in. maple tree; copper nail and washer-----	627.75
Denrock, 0.7 mi. N. of, near center of sec. 19, T. 20 N., R. 5 E., 110 ft. S. and 25 ft. E. from highway intersection, at N. point of wye, on S. head wall of concrete culvert under private rd. E.; chiseled square-----	624.65

Denrock, about 0.25 mi. E. of sta., 2.6 mi. NW. of Prophetstown, 75 ft. N. of R.R. crossing, 24 ft. W. of rd., near large maple tree, in concrete post; standard tablet stamped "T T Sta No 119 JLS 1927"-----	<i>Feet</i> 595.555
Reference mark, 8 ft. SW. of tablet, in E. side of 28-in. maple tree; copper nail and washer-----	597.53
Prophetstown, 1.4 mi. NW. of, near E. cor. secs. 30 and 31, T. 20 N., R. 5 E., at R. R. bridge over Rock River, on W. end of N. abutment, 7.5 ft. below top of rail; chiseled square-----	599.12
Rock River, surface of water Oct. 18, 1927-----	588.4
Prophetstown, 0.25 mi. W. of sta., 40 ft. N. and 20 ft. W. from intersection of R. R. and Grove Street, near elm tree, in concrete post; standard tablet stamped "T T Sta No 120 JLS 1927" (recovered in 1928) -----	617.927
Reference mark, 23 ft. W. of tablet, in root on N. side of 10-in. elm tree; copper nail and washer-----	617.08
Prophetstown, 0.5 mi. W. of, in NW $\frac{1}{4}$ sec. 5, T. 19 N., R. 5 E., in SW. angle of junction of Y-rd. S., on top near center of head wall of concrete culvert; chiseled square-----	606.38
Prophetstown, 1.4 mi. SW. of, 0.6 mi. E. of Portland Corners, near center of sec. 6, T. 19 N., R. 5 E., 700 ft. W. of angle in rd., on W. head wall of concrete culvert under private driveway S.; chiseled square -----	619.26
Prophetstown, 2.2 mi. SW. of, 0.25 mi. SW. of Portland Corners, in SE $\frac{1}{4}$ sec. 1, T. 19 N., R. 4 E., 90 ft. S. of rd. fork, 300 ft. N. of residence of L. L. Lawrence, midway between rds., in concrete post; standard tablet stamped "T T Sta No 121 JLS 1927"-----	624.790
Reference mark, 110 ft. N. of tablet, in NW. angle of rd. junction, on W. head wall of concrete culvert; chiseled square-----	624.47
Prophetstown, 3.1 mi. SW. of, near center of sec. 12, T. 19 N., R. 4 E., at SW. corner of steel bridge over Coon Creek, on steel pier; notched rivet head-----	605.24
Prophetstown, 4.1 mi. SW. of, 0.25 mi. N. of W $\frac{1}{4}$ cor. sec. 13, T. 19 N., R. 4 E., 22 ft. S. and 50 ft. E. from junction of rd. S., in root on W. side of 24-in. triple maple tree; copper nail and washer-----	627.51
Prophetstown, 4.6 mi. SW. of, 0.25 mi. S. of E $\frac{1}{4}$ cor. sec. 14, T. 19 N., R. 4 E., in NW. angle of crossroads, 1 ft. S. and 1 ft. E. from fence corner; iron T-bar-----	617.83
Prophetstown, 6.1 mi. SW. of, 0.2 mi. S. and 2.5 mi. E. from Spring Hill, 0.25 mi. S. of NE. cor. sec. 26, T. 19 N., R. 4 E., 0.25 mi. N. of old house, 30 ft. W. of rd., at fence W., in concrete post; standard tablet stamped "T T Sta No 122 JLS 1927"-----	613.977
Reference mark, 62 ft. E. of tablet, in root on W. side of 10-in. triple cherry tree; copper nail and washer-----	614.25

[Continued in Joslin quadrangle, line 7]

6. From point 0.2 mile north of south corner secs. 35 and 36, T. 18 N., R. 4 E., east along road to point 1.5 miles south and 0.3 mile west from Hoopole (by J. A. Shumate in 1927)

[Continued from Geneseo quadrangle, line 2]<sup>95</sup>

<sup>95</sup> This line crosses the northwest corner of Annawan quadrangle but no bench marks were established along that portion of the line.

# 1614 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

T. 18 N., R. 4 E., 0.2 mi. N. of S. cor. secs. 35 and 36, 1.5 mi. S. and 4.0 mi. W. from Hooppole, on N. side of rd., 100 ft. E. of private driveway N. to silo, in root on N. side of 12-in. hackberry tree; copper nail and washer-----	<i>Feet</i> 610.86
Hooppole, 1.3 mi. S. and 3.0 mi. W. from, near quarter corner between secs. 31 and 36, T. 18 N., Rs. 4 and 5 E., SW. of junction of T-rd. N., 1 ft. S. and 1.5 ft. E. from high-line pole; top of iron T-bar-----	606.67
Hooppole, 1.3 mi. S. and 1.9 mi. W. from, 800 ft. E. of W $\frac{1}{4}$ cor. sec. 32, T. 18 N., R. 5 E., 25 ft. N. and 36 ft. E. from crossroads, in concrete post; standard tablet stamped "T T Sta No 126 JLS 1927" (recovered in 1928)-----	627.309
Reference mark, 78 ft. S. 45° W. from tablet, in root on N. side of 12-in. cherry tree; copper nail and washer-----	624.49
Hooppole, 1.3 mi. S. and 0.6 mi. W. from, near center of sec. 33, T. 18 N., R. 5 E., 30 ft. S. and 130 ft. E. from junction of rd. N., in root on NE. side of 20-in. hackberry tree; copper nail and washer--	615.16
[Continued in Annawan quadrangle, line 5]	
7. From point 0.8 mile south and 0.5 mile west from Thomas along roads alternately north and west to State Highway 226, thence southwest along highway 3.4 miles to Prophetstown (by H. S. Senseney in 1927)	
[Continued from Annawan quadrangle, line 4]	
Thomas, 0.5 mi. W. of, near S $\frac{1}{4}$ cor. sec. 29, T. 18 N., R. 6 E., 95 ft. W. of junction of T-rd. S., on N. side of rd., in root of tree; copper nail and washer-----	619.81
Thomas, 0.8 mi. W. of, 0.8 mi. S. and 4.1 mi. E. from Hooppole, 0.25 mi. E. of SW. cor. sec. 29, T. 18 N., R. 6 E., 25 ft. N. and 70 ft. W. from junction of T-rd. N., in concrete post; standard tablet stamped "T T Sta No 128 JLS 1927"-----	633.622
Hooppole, 0.8 mi. S. and 2.9 mi. E. from, 245 ft. W. of NE. cor. sec. 36, T. 18 N., R. 5 E., on S. side of rd., in root of tree; copper nail and washer-----	615.06
Hooppole, 0.8 mi. S. and 1.9 mi. E. from, at Ringel School, near SW cor. sec. 25, T. 18 N., R. 5 E., 230 ft. N. of crossroads, on E. side of rd., in root of tree; copper nail and washer-----	618.48
Hooppole, 0.5 mi. N. and 1.8 mi. E. from, 0.25 mi. N. of SE. cor. sec. 23, T. 18 N., R. 5 E., 190 ft. W. of junction of T-rd. W., on N. side of rd., in root of tree; copper nail and washer-----	619.54
Hooppole, 0.8 mi. N. and 1.8 mi. E. from, near W $\frac{1}{4}$ cor. sec. 24, T. 18 N., R. 5 E., in SE. angle of junction of T-rd. E., in root of tree; copper nail and washer-----	623.32
Hooppole, 1.3 mi. N. and 1.8 mi. E. from, 1.5 mi. W. thence 2.0 mi. S. from Yorktown, at Brown School, near NE. cor. sec. 23, T. 18 N., R. 5 E., 35 ft. S. and 20 ft. W. from crossroads, in concrete post; standard tablet stamped "28 S 1927" and "T T Sta No 136 JLS 1927"-----	636.742
Yorktown, 1.5 mi. W. thence 1.0 mi. S. from, near SE. cor. sec. 11, T. 18 N., R. 5 E., on W. side of rd., 275 ft. N. of fence W., in root of tree; copper nail and washer-----	625.34
Yorktown, 0.5 mi. N. and 1.3 mi. W. from, 0.25 mi. W. of center of sec. 1, T. 18 N., R. 5 E., in SE. angle of rd. junction, in root of tree; copper nail and washer-----	640.12

Yorktown, 1.0 mi. N. and 1.5 mi. W. from, 3.4 mi. NE. thence 6.8 mi. S. from Prophetstown, near NE. cor. sec. 2, T. 18 N., R. 5 E., near Henry-Whiteside county line, 40 ft. S. and 18 ft. W. from crossroads, in concrete post; standard tablet stamped "29 S 1927" and "T T Sta No 137 JLS 1927" (recovered in 1928)-----	<i>Feet</i> 632.570
Reference mark, 1,140 ft. N. of tablet, on E. side of rd., in root of tree; copper nail and washer-----	628.19
Prophetstown, 3.4 mi. NE. thence 5.8 mi. S. from, near SW. cor. sec. 25, T. 19 N., R. 5 E., in NE. angle of crossroads, in root of tree; copper nail and washer-----	634.26
Prophetstown, 3.4 mi. NE. thence 4.8 mi. S. from, near SE. cor. sec. 23, T. 19 N., R. 5 E., 70 ft. N. of junction of T-rd. E., on W. side of rd., in root of tree; copper nail and washer-----	624.47
Prophetstown, 3.4 mi. NE. thence 3.8 mi. S. from, near W. cor. secs. 13 and 24, T. 19 N., R. 5 E., on top of NE. pier of bridge over ditch; bolt-----	616.13
Prophetstown, 3.4 mi. NE. thence 3.3 mi. S. from, near W $\frac{1}{4}$ cor. sec. 13, T. 19 N., R. 5 E., 45 ft. N. and 25 ft. E. from crossroads, in concrete post; standard tablet stamped "30 S 1927" and "T T Sta No 138 JLS 1927"-----	616.120
Reference mark, 300 ft. N. of tablet, on E. side of rd., in root of tree; copper nail and washer-----	617.71
Prophetstown, 3.4 mi. NE. thence 2.5 mi. S. from, about 0.3 mi. N. of S. cor. secs. 11 and 12, T. 19 N., R. 5 E., on top of NE. pier of bridge over ditch; bolt-----	615.48
Prophetstown, 3.4 mi. NE. thence 1.8 mi. S. from, near SE. cor. sec. 2, T. 19 N., R. 5 E., in NW. angle of crossroads, in root of tree; copper nail and washer-----	614.38
Prophetstown, 3.4 mi. NE. thence 0.8 mi. S. from, near SE. cor. sec. 35, T. 20 N., R. 5 E., 21 ft. N. of fence line W., on W. side of rd., in root of tree; copper nail and washer-----	615.83
Prophetstown, 3.4 mi. NE. of, 0.2 mi. S. of NW. cor. sec. 36, T. 20 N., R. 5 E., 25 ft. N. and 35 ft. E. from junction of State Highway 226, in concrete post; standard tablet stamped "31 S 1927" and "T T Sta No 139 JLS 1927"-----	623.792
Prophetstown, 3.2 mi. NE. of, at Jackson Street School, in NE $\frac{1}{4}$ sec. 35, T. 20 N., R. 5 E., in NE. angle of junction of rd. N., in root of tree; copper nail and washer-----	621.17
Prophetstown, 1.9 mi. NE. of, about 0.2 mi. S. of center of sec. 34, T. 20 N., R. 5 E., at junction of rd. S., on N. side of rd., in root of tree; copper nail and washer-----	610.15
Prophetstown, 1.3 mi. NE. of, near SW. cor. sec. 34, T. 20 N., R. 5 E., on top of SE. pier of bridge over Coon Creek; bolt-----	603.76
Prophetstown, at intersection of Washington and Third Streets; top of NE. corner of concrete base of Soldiers Monument-----	622.87
8. From crossroads 1.3 miles south and 1.9 miles west from Hooppole alternately north and east along roads to crossroads 1 mile north and 1.5 miles west from Yorktown (by L. V. Johnson in 1928)	
Hooppole, 2.0 mi. W. thence 0.7 mi. N. from, 0.25 mi. N. of SW. cor. sec. 20, T. 18 N., R. 5 E., 10 ft. S. and 30 ft. E. from junction of T-rd. W., 1 ft. E. of S. gatepost, in root on W. side of 24-in. boxelder tree; copper nail and washer-----	627.97

# 1616 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Hooppole, 2.2 mi. N. and 0.6 mi. W. from, near S $\frac{1}{4}$ cor. sec. 9, T. 18 N., R. 5 E., 30 ft. N. and 80 ft. W. from junction of T-rd. S., on top of 3-ft. bank, in root on N. side of 40-in. willow tree; copper nail and washer-----	<i>Feet</i> 645.64
Hooppole, 2.8 mi. N. and 0.1 mi. W. from, near E $\frac{1}{4}$ cor. sec. 9, T. 18 N., R. 5 E., 20 ft. S. and 70 ft. W. from junction of T-rd. N., in root on N. side of 30-in. maple tree; copper nail and washer-----	620.59
Hooppole, 3.8 mi. N. and 0.1 mi. W. from, near W $\frac{1}{4}$ cor. sec. 3, T. 18 N., R. 5 E., 30 ft. N. and 40 ft. E. from crossroads, 10 ft. E. of fence corner, in top of stump of 6-in. elm tree; copper nail and washer----	631.06
Hooppole, 3.8 mi. N. and 0.6 mi. E. from, 2.8 mi. W. thence 0.5 mi. N. from Yorktown, 0.25 mi. E. of center of sec. 3, T. 18 N., R. 5 E., 50 ft. N. and 35 ft. E. from crossroads, in root on W. side of 40-in. maple tree; copper nail and washer-----	625.11
9. From crossroads 3.8 miles north and 0.1 mile west from Hooppole along roads west 1 mile, thence generally north to Prophetstown (by L. V. Johnson in 1928)	
Hooppole, 3.8 mi. N. and 1.1 mi. W. from, 6.5 mi. S. of Prophetstown, about 600 ft. N. of quarter corner between secs. 4 and 5, T. 18 N., R. 5 E., 70 ft. E. of N-S. fence line, in root on N. side of double-trunked poplar tree; copper nail and washer-----	610.16
Prophetstown, 4.7 mi. S. and 0.2 mi. W. from, near center of SE $\frac{1}{4}$ sec. 29, T. 19 N., R. 5 E., 40 ft. N. and 40 ft. W. from junction of Old Indian Trail and rd. N., in root on N. side of 18-in. walnut tree; copper nail and washer-----	619.16
Prophetstown, 2.5 mi. S. of, near E $\frac{1}{4}$ cor. sec. 17, T. 19 N., R. 5 E., 30 ft. N. and 40 ft. W. from crossroads, in root on S. side of 6-in. wild-cherry tree; copper nail and washer-----	612.67
Prophetstown, 1.5 mi. S. of, near quarter corner between secs. 8 and 9, T. 19 N., R. 5 E., in front of farmhouse, in root on W. side of 24-in. boxelder tree; copper nail and washer-----	623.62

# RIVERSIDE QUADRANGLE<sup>65</sup>

[Latitude 41°45'–42°00'; longitude 87°45'–88°00']

## COOK AND DU PAGE COUNTIES

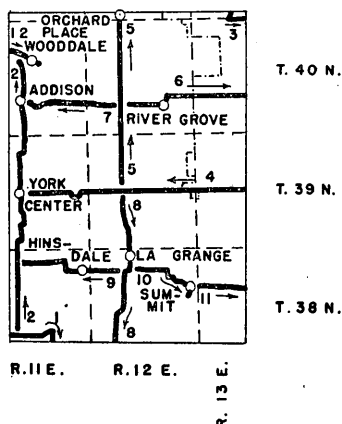


FIGURE 270.—Lines of leveling in Riverside quadrangle.

1. From point 3 miles south and 0.4 mile east from Downers Grove east and northeast to crossroads 0.7 mile northeast of Lace, thence south 0.5 mile to point near quarter corner between sections 26 and 27, T. 38 N., R. 11 E. (by S. R. Archer in 1924)

[Continued from Wheaton quadrangle, line 6]

Downers Grove, 3.0 mi. S. and 0.7 mi. E. from, 1.4 mi. W. of Lace, 400 ft. W. of E $\frac{1}{4}$ cor. sec. 29, T. 38 N., R. 11 E., 400 ft. W. of junction of Fairview Avenue, on N. side of rd., in yard of dwelling of J. Klein, 10 ft. W. of gate and walk leading to front entrance, in root on S. side of 12-in. elm tree; copper nail and washer-----	Feet 783.04
Lace, 0.3 mi. W. of, near W $\frac{1}{4}$ cor. sec. 27, T. 38 N., R. 11 E., 30 ft. N. and 30 ft. E. from crossroads, 65 ft. W. of Lace Church, in concrete post; standard tablet stamped "Prim Trav Sta No 1 K 1924 A, 60"-----	756.196
Reference mark, 25 ft. N. and 60 ft. W. from tablet, 55 ft. N. and 30 ft. W. from crossroads, in root on S. side of 12-in. boxelder tree; copper nail and washer-----	755.67
Lace, 35 ft. NE. of rd. junction, 0.15 mi. W. of center of sec. 27, T. 38 N., R. 11 E., on SE. side of Plainfield rd., at fence corner, in root on NW. side of 24-in. maple tree; copper nail and washer-----	738.71
Lace, 0.7 mi. NE. of, 0.13 mi. S. of NE. cor. sec. 26, T. 38 N., R. 11 E., in SE. angle of crossroads, at fence corner, in root on S. side of 10-in. boxelder tree; copper nail and washer-----	723.00

[Continued in Des Plaines quadrangle, line 10]

<sup>65</sup> Subdivided into 7½-minute quadrangles River Forest, Elmhurst, Hinsdale, and Berwyn, which are mapped on a larger scale.

# 1618 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

2. From road junction 1.3 miles west of Lace north along Fairview Avenue and roads by way of Downers Grove, York Center, and Addison to Irving Park Boulevard at point 0.6 mile northwest of Wooddale, thence northwest to point 0.8 mile southeast of Itasca (by S. R. Archer in 1924)

Downers Grove, 2.3 mi. S. of Fairview Avenue sta. of Chicago, Burlington & Quincy R. R., 1.3 mi. W. thence 0.7 mi. N. from Lace, 0.21 mi. N. of SE. cor. sec. 20, T. 38 N., R. 11 E., on W. head wall of concrete culvert; chiseled square-----	<i>Feet</i> 763.32
Downers Grove, 1.5 mi. S. of, near SE. cor. sec. 17, T. 38 N., R. 11 E., 32 ft. N. and 27 ft. W. from crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 11 K 1924 A 65"-----	758.255
Reference mark, 15 ft. E. of fence corner, in SE. angle of crossroads, in root on W. side of 36-in. cottonwood tree; copper nail and washer---	754.17
Downers Grove, 0.6 mi. S. of, 0.13 mi. S. of NE. cor. sec. 17, T. 38 N., R. 11 E., 685 ft. S. of crossroads, on top of W. head wall of concrete culvert; chiseled square-----	721.03
Downers Grove, 0.5 mi. S. of, near SW. cor. sec. 9, T. 38 N., R. 11 E., in NE. angle of crossroads, in root 1 ft. from trunk on SW. side of 10-in. ash tree; copper nail and washer-----	721.84
Downers Grove, 120 ft. S. and 150 ft. W. from Fairview Avenue sta. of C. B. & Q. R. R., in SW. corner of intersection of South Fairview and East Burlington Avenues, on top at S. end of concrete doorsill of entrance to brick store building of J. J. Hurt; chiseled square (recovered in 1925)-----	733.90
Downers Grove, 55 ft. SW. and 30 ft. S. from intersection of Fairview Avenue and East Maple Street, 0.1 mi. N. of C. B. & Q. R. R. crossing, in concrete post; standard tablet stamped "Prim Trav Sta No 10 K 1924 A 66" <sup>95a</sup> -----	731.214
Downers Grove, 1.0 mi. N. of, near quarter corner between secs. 4 and 5, T. 38 N., R. 11 E., 23 ft. N. and 65 ft. W. from intersection of Fairview and Ogden Avenues, in root on N. side of 24-in. maple tree; copper nail and washer-----	764.44
Downers Grove, 2.0 mi. N. of, near W $\frac{1}{4}$ cor. sec. 33, T. 39 N., R. 11 E., on SE. side of right-angle turn in rd., in field, 10 ft. E. of fence corner, in root on S. side of 12-in. oak tree; copper nail and washer---	728.22
Downers Grove, 2.0 mi. N. thence 0.2 mi. E. from, 2.5 mi. S. of York Center, 0.25 mi. E. of W $\frac{1}{4}$ cor. sec. 33, T. 39 N., R. 11 E., on S. side of E.-W. rd., in line with center of rd. N., at fence line, in concrete post; standard tablet stamped "Prim Trav Sta No 17 K 1924 A 67"-----	723.322
York Center, 2.0 mi. S. of, 0.25 mi. E. of SW. cor. sec. 28, T. 39 N., R. 11 E., 180 ft. N. of junction of T-rd. E., on E. side of rd., in field, in root on W. side of 24-in. oak tree; copper nail and washer-----	699.33
York Center, 1.2 mi. S. of, near center of NW $\frac{1}{4}$ sec. 28, T. 39 N., R. 11 E., at Utopia School, 45 ft. N. and 25 ft. W. from crossroads, 15 ft. N. of SE. corner of schoolyard, in root 5 in. underground on E. side of 6-in. boxelder tree; copper nail and washer-----	722.60
York Center, 30 ft. N. and 120 ft. E. from intersection of Roosevelt and Meyers rds., 0.25 mi. E. of SW. cor. sec. 16, T. 39 N., R. 11 E., at SW. corner of cemetery, in concrete post; standard tablet stamped "Prim Trav Sta No 16 K 1924 A 68"-----	716.106

<sup>95a</sup> In 1942 it was reported that the concrete post was leaning slightly.

Reference mark, 10 ft. N. and 65 ft. W. from tablet, 40 ft. N. and 55 ft. E. from crossroads, 23 ft. S. and 3 ft. E. from SW. corner of school-house, in root on S. side of 24-in. boxelder tree; copper nail and washer-----	<i>Feet</i> 714.39
York Center, 1.0 mi. N. of, 0.5 mi. S. of Westmore sta. of Chicago, Aurora & Elgin electric ry., 0.25 mi. E. of SW. cor. sec. 9, T. 39 N., R. 11 E., 25 ft. N. and 45 ft. W. from intersection of Madison Street and Meyers rd., in root on W. side of 24-in. maple tree; copper nail and washer-----	726.18
Westmore sta., 100 ft. N. and 40 ft. E. from crossing of C. A. & E. electric ry. and Meyers rd., on N. side of E.-W. street, 8 ft. S. and 4 ft. W. from SW. corner of store of O. J. Roath, in root on SW. side of 12-in. poplar tree; copper nail and washer-----	710.83
Westmore sta., 0.5 mi. N. of, 0.25 mi. E. of SW. cor. sec. 4, T. 39 N., R. 11 E., 30 ft. N. and 50 ft. E. from intersection of St Charles and Meyers rds, in root on SE. side of 24-in. maple tree; copper nail and washer-----	716.74
Westmore sta., 0.5 mi. N. and 0.3 mi. E. from, 1.1 mi. S. of South Addison, near S¼ cor. sec. 4, T. 39 N., R. 11 E., 50 ft. N. and 75 ft. W. from intersection of Addison Avenue and St. Charles rd., on W. end of concrete doorsill at front entrance of brick garage; chiseled square	702.77
Lombard triangulation sta. (U. S. Lake Survey), 0.2 mi. S. and 0.09 mi. W. from N¼ cor. sec. 4, T. 39 N., R. 11 E., 470 ft. W. of Addison rd., 400 ft. S. and 115 ft. E. from farmhouse, 200 ft. S. and 105 ft. E. from SE. corner of barn, in field, on top of stone post set 3 ft. underground; directly over hole in center of stone-----	713.423
Lombard triangulation sta. reference mark (U. S. Lake Survey), 492 ft. N.85°11'E. from sta., 950 ft. S. of Illinois Central R. R. crossing, on E. side of Addison rd.; on top of granite post directly over hole in stone-----	713.500
South Addison, 1.1 mi. N. of, 0.8 mi. S. of Addison, 0.08 mi. N. of S¼ cor. sec. 28, T. 40 N., R. 11 E., 400 ft. N. of junction of T-rd. W., on E. side of rd., in root on SW. side of 24-in. poplar tree; copper nail and washer-----	685.23
Addison, 40 ft. S. and 25 ft. W. from intersection of Lake and Central Streets, 55 ft. S. and 50 ft. E. from Lake Street crossing of I. C. R. R., in NE. corner of sta. grounds, 10 ft. S. of sidewalk along S. side of Lake Street, in concrete post; standard tablet stamped "Prim Trav Sta No 23 K 1924 K 49"-----	691.363
Reference mark, 275 ft. N. of tablet, on E. side of street, at W. edge of sidewalk, in root on SE. side of 12-in. boxelder tree; copper nail and washer-----	687.14
Addison, 1.1 mi. N. of, 1.1 mi. S. and 0.5 mi. W. from Wooddale, 0.13 mi. S. of N¼ cor. sec. 21, T. 40 N., R. 11 E., on W. side of rd., at NE. corner of yard, in front of dwelling of Albert Meyers, in root on SE. side of 24-in. forked boxelder tree; copper nail and washer-----	686.48
Wooddale, 0.6 mi. NW. of, 1.3 mi. SE. of Itasca, 0.2 mi. NW. of S¼ cor. sec. 9, T. 40 N., R. 11 E., 135 ft. S. of junction of Irving Park Boulevard and rd. S., on E. side of rd., in root on NW. side of 12-in. wild-cherry tree; copper nail and washer-----	687.91

[Continued in Wheaton quadrangle, line 7]

# 1620 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

3. From point 2 miles south of Niles Center southwest along Carpenter road (Lillard Avenue) and east along Devon Avenue to point near intersection of Cicero Avenue (by S. R. Archer in 1924)

[Continued from Highwood quadrangle, line 5]

T. 40 N., R. 13 E., near NW. cor. sec. 4, at SW. corner of intersection of Lillard and Devon Avenues, 15 ft. S. of corner of sidewalk, in root on SE. side of 12-in. elm tree; copper nail and washer-----	Feet 618.57
T. 40 N., R. 13 E., near NW. cor. sec. 4, 15 ft. E. and 35 ft. NE. from intersection of Caldwell and Lillard Avenues, 260 ft. SW. of intersection of Devon and Lillard Avenues, in concrete monument; copper bolt (Chicago City B. M. 186)-----	615.808

[Continued in Chicago quadrangle, line 5]

4. From point 0.2 mile east of intersection of South Laramie Avenue and Roosevelt road west along Roosevelt road to York Center (by F. D. Kramer in 1924)

[Continued from Chicago quadrangle, line 2]

Chicago, 83 ft. N. of center line of Roosevelt rd., 62 ft. E. of W. line of Austin Avenue, in concrete monument; copper bolt (Chicago City B. M. 172)-----	613.526
Chicago, 16 ft. S. of S. curb of Roosevelt rd. and 7.8 ft. E. of E. curb of Harlem Avenue, in sidewalk, in concrete post; standard tablet stamped "Prim Trav Sta No 32 K 1924 K 37" (recovered in 1925)---	619.777
Reference mark, on curb, 18 ft. W. of SW. corner; chiseled square-----	620.08
Des Plaines River, under Roosevelt rd. bridge; surface of water Oct. 20, 1924-----	605.4
Maywood, at NW. corner of intersection of South First Avenue and Roosevelt rd., on concrete head wall of culvert; chiseled square <sup>66</sup> ---	624.56
Maywood, at SW. corner of intersection of South Ninth Avenue and Roosevelt rd., near NE. cor. sec. 22, T. 39 N., R. 12 E., in concrete post; standard tablet stamped "Prim Trav Sta No 31 K 1924 K 38" <sup>66</sup> ---	625.075
Reference mark, in SE. angle of intersection, on concrete base of light pole; chiseled square-----	626.94
Broadview, at NW. corner of intersection of South Fourteenth Avenue and Roosevelt rd., in front of Broadview Garage, on concrete head wall of culvert; chiseled square-----	630.54
Broadview, in W. part of, in NW. angle of junction of Lyman Avenue and Roosevelt rd., near SE. cor. sec. 16, T. 39 N., R. 12 E., on concrete head wall of culvert; chiseled square-----	628.79
Broadview, near W. limits of, 0.8 mi. E. of Hillside, 0.25 mi. W. of SE. cor. sec. 16, T. 39 N., R. 12 E., in NE. angle of crossroads, on concrete head wall of culvert; chiseled square-----	627.88
Hillside, in NW. angle of intersection of Mannheim and Roosevelt rds., near SE. cor. sec. 17, T. 39 N., R. 12 E., in concrete post; standard tablet stamped "Prim Trav Sta No 13 K 1924 K 39" (reported destroyed)-----	627.074
Reference mark, in SE. angle of intersection, on concrete head wall of culvert; chiseled square-----	625.32
Hillside, in SW. part of, near NW. cor. sec. 20, T. 39 N., R. 12 E., at SE. corner of intersection of Roosevelt and Wolf rds., on concrete head wall of culvert; chiseled square (reported destroyed)-----	648.63

<sup>66</sup> In 1941 this bench mark was reported destroyed.

Hillside, 1.8 mi. W. of, 0.2 mi. E. of NW. cor. sec. 19, T. 39 N., R. 12 E., 0.2 mi. E. of Cook-Du Page county line, on S. side of rd., near gate to farmyard, in concrete post; standard tablet stamped "Prim Trav Sta No 14 K 1924 K 58" (reported destroyed)-----	<i>Feet</i> 685.474
Reference mark, 53 ft. N. of tablet, on N. side of rd., in root of 6-in. black-oak tree; copper nail and washer (reported destroyed)-----	685.18
Hillside, 2.4 mi. W. of, 3.4 mi. E. of York Center, 0.1 mi. SE. of N $\frac{1}{4}$ cor. sec. 24, T. 39 N., R. 11 E., on E. side of rd. junction, on W. corner of concrete base of gasoline service sta.; chiseled square-----	679.10
York Center, 2.7 mi. E. of, about 0.1 mi. W. of SE. cor. sec. 14, T. 39 N., R. 11 E., on N. side of rd., on W. concrete wall of culvert; chiseled square-----	661.07
Salt Creek, under Roosevelt rd. bridge; surface of water Nov. 15, 1924--	652.1
York Center, 1.9 mi. E. of, at Salt Creek School, 0.15 mi. E. of SW. cor. sec. 14, T. 39 N., R. 11 E., in NE. angle of intersection of Roosevelt and Butterfield rds., in corner of schoolyard, in concrete post; standard tablet stamped "Prim Trav Sta No 15 K 1924 K 59" <sup>a</sup> -----	671.765
Reference mark, in NW. angle of crossroads, on SW. end of NW. head wall of concrete culvert; chiseled square-----	670.73
York Center, 1.5 mi. E. of, 0.25 mi. W. of NE. cor. sec. 22, T. 39 N., R. 11 E., on S. side of rd., near top of hill, near entrance to Green Ridge Cemetery, on top of concrete rim on W. side of manhole cover; chiseled square-----	688.86
York Center, 0.6 mi. E. of, 0.13 mi. W. of SE. cor. sec. 16, T. 39 N., R. 11 E., on N. side of rd., on concrete head wall of culvert; chiseled square-----	703.68

5. From Hillside north along Mannheim road to Orchard Place (by F. D. Kramer in 1924)

Bellwood, in SW. part of, 1.0 mi. N. of intersection of Mannheim and Roosevelt rds. in Hillside, near SW. cor. sec. 9, T. 39 N., R. 12 E., in NE. angle of intersection of Madison Street and Mannheim rd., 30 ft. E. of trolley line, in concrete post; standard tablet stamped "Prim Trav Sta No 18 K 1924 K 40"-----	634.691
Reference mark, in SE. angle of intersection on S. side of Madison Street, in root of 32-in. willow tree; copper nail and washer-----	633.66
Bellwood, 0.25 mi. N. of intersection of Butterfield and Mannheim rds., 0.1 mi. N. of E $\frac{1}{4}$ cor. sec. 8, T. 39 N., R. 12 E., on W. side of rd., on concrete head wall of culvert; chiseled square-----	635.20
Bellwood, 1.1 mi. N. of, 2.2 mi. S. of Mannheim School, near quarter corner between secs. 4 and 5, T. 39 N., R. 12 E., on W. side of rd., in root of 28-in. willow tree; copper nail and washer-----	636.83
Mannheim School, 1.5 mi. S. of, near NE. cor. sec. 5, T. 39 N., R. 12 E., in SW. angle of intersection of Mannheim rd. and North Avenue, in concrete post; standard tablet stamped "Prim Trav Sta No 19 K 1924 K 41" <sup>a</sup> -----	637.860
Reference mark, 300 ft. NE. of intersection, on E. side of rd., in root of 27-in. willow tree; copper nail and washer-----	638.82

<sup>a</sup> In 1930 this bench mark was moved 150 ft. northeast of its original position and reset at the same elevation.

<sup>a</sup> In 1942 this bench mark was reported to have been covered by a fill during construction of a new highway bridge; the reference mark was also probably destroyed.

# 1622 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Mannheim School, 0.3 mi. S. of, 0.15 mi. N. of SE. cor. sec. 29, T. 40 N., R. 12 E., on W. side of rd., on S. end of W. head wall of culvert; chiseled square	<i>Feet</i> 641.04
Mannheim School, 0.1 mi. N. of E $\frac{1}{4}$ cor. sec. 29, T. 40 N., R. 12 E., in SW. angle of intersection of Grand Avenue and Mannheim rd., in concrete post; standard tablet stamped "Prim Trav Sta No 20 K 1924 K 42" <sup>88</sup>	642.235
Reference mark, in SW. angle of intersection, in schoolyard, 30 ft. N. of NE. corner of schoolhouse, in root of 20-in maple tree; copper nail and washer	642.02
Mannheim School, 0.7 mi. N. of, 0.25 mi. N. of SW. cor. sec. 21, T. 40 N., R. 12 E., near S. end of viaduct over Chicago, Milwaukee, St. Paul & Pacific R. R. tracks, on E. side of N-S. rd., opposite center line of rd. NW. to Bensenville, in front of parsonage of Lutheran Church, on NW. corner of concrete walk; chiseled square	647.93
Mannheim School, 1.9 mi. N. of, 3.0 mi. S. of Orchard Place, near E $\frac{1}{4}$ cor. sec. 17, T. 40 N., R. 12 E., in NW. angle of intersection of Irving Park Boulevard and Mannheim rd., in concrete post; standard tablet stamped "Prim Trav Sta No 24 K 1924 K 45"	642.692
Reference mark, 850 ft. N. of tablet, on NW. wing wall of concrete bridge; chiseled square	641.62
Orchard Place, 1.8 mi. S. of, 0.15 mi. N. of W $\frac{1}{4}$ cor. sec. 9, T. 40 N., R. 12 E., on E. side of rd., in lawn in front of dwelling of B. H. Finke, in root of 18-in. maple tree; copper nail and washer	645.16
Orchard Place, 1.4 mi. S. of, near SE. cor. sec. 5, T. 40 N., R. 12 E., in NW. angle of intersection of Bryn Mawr Avenue and Mannheim rd., in concrete post; standard tablet stamped "Prim Trav Sta No 25 K 1924 K 46" <sup>88a</sup>	642.565
Orchard Place, in SW. part of, 0.2 mi. N. of SE. cor. sec. 32, T. 41 N., R. 12 E., on S. side of Higgins rd., 120 ft. W. of Mannheim rd., in root of 36-in. poplar tree; copper nail and washer	639.96
Orchard Place, in S. part of, 0.25 mi. N. and 0.12 mi. E. from SW. cor. sec. 33, T. 41 N., R. 12 E., on NE. wing wall of concrete bridge over Willow Creek; chiseled square	635.93
[Connects with line 5 in Highwood quadrangle]	
6. From Mannheim School east along Grand Avenue to River Grove, thence north 0.6 mile, thence east along Belmont Avenue to point 0.15 mile west of intersection of Cicero Avenue (by F. D. Kramer in 1924)	
Mannheim School, 1.0 mi. E. of, in Franklin Park, in NW. angle of intersection of Grand Avenue and Rose Street, on SW. corner of concrete sidewalk; chiseled square	640.81
Franklin Park, in SE. part of, in W. part of River Grove, in SE. angle of junction of Grand Avenue and street S., in concrete post; standard tablet stamped "Prim Trav Sta No 33 K 1924 K 43" <sup>89</sup>	628.615
Reference mark, 330 ft. NE. of tablet, on N. side of Grand Avenue, in root of 32-in. elm tree; copper nail and washer	628.42
Des Plaines River, under Grand Avenue bridge; surface of water Oct. 28, 1924	607.4

<sup>88</sup> In 1942 it was reported that this bench mark had not been found by the State Water Survey engineer and had probably been covered by a fill.

<sup>88a</sup> In 1926 this bench mark was reported destroyed.

River Grove, in NW. angle of intersection of Grand Avenue and School Street, on S. edge of concrete walk; chiseled square <sup>90</sup> -----	<i>Feet</i> 629.39
River Grove, in N. part of, near quarter corner between secs. 23 and 26, T. 40 N., R. 12 E., in NE. angle of junction of Belmont Avenue and Thatcher rd., in concrete post; standard tablet stamped "Prim Trav Sta No 34 K 1924 K 44"-----	628.898
Reference mark, in SE. angle of junction of Belmont Avenue and rd. SW., in root of 20-in. poplar tree; copper nail and washer-----	628.74
Elmwood Park, 0.1 mi. E. of intersection of Beach and Belmont Avenues, 470 ft. E. of quarter corner between secs. 24 and 25, T. 40 N., R. 12 E., on N. side of Belmont Avenue, in root of silver-poplar tree; copper nail and washer-----	639.77
Chicago, in SE. angle of intersection of Barry and Neva Avenues, in concrete monument; copper bolt (Chicago City B. M. 226) <sup>1</sup> -----	642.869
Chicago, in NE. corner of intersection of Belmont and Narragansett Avenues, in concrete monument; copper bolt (Chicago City B. M. 180)-----	635.754
Chicago, at SW. corner of Belmont and Central Avenues, in concrete monument; copper bolt (Chicago City B. M. 56)-----	618.287

[Continued in Chicago quadrangle, line 4]

7. From Mannheim School west along Grand Avenue and Lake Street to Addison (by F. D. Kramer in 1924)

Mannheim School, 1.0 mi. W. of, 4.4 mi. E. of Addison, 0.15 mi. N. of W $\frac{1}{4}$ cor. sec. 29, T. 40 N., R. 12 E., in SE. angle of intersection of Grand Avenue and Wolf rd., in root of 20-in. poplar tree; copper nail and washer-----	648.89
Addison, 3.5 mi. E. of, 0.25 mi. S. of NW. cor. sec. 30, T. 40 N., R. 12 E., in NE. angle of intersection of Grand Avenue and Mt. Prospect rd., in concrete post; standard tablet stamped "Prim Trav Sta No 21 K 1924 K 47"-----	666.932
Reference mark, 495 ft. W. of tablet, on N. side of Grand Avenue, on E. end of N. concrete head wall of culvert; chiseled square-----	658.61
Addison, 2.7 mi. E. of, near center of NW $\frac{1}{4}$ sec. 25, T. 40 N., R. 11 E., on N. side of Grand Avenue, at fence near large barn, in root of maple tree; copper nail and washer-----	689.14
Addison, 1.8 mi. E. of, 0.3 mi. S. of Churchville, near center of NW $\frac{1}{4}$ sec. 26, T. 40 N., R. 11 E., in SW. angle of crossroads, in concrete post; standard tablet stamped "Prim Trav Sta No 22 K 1924 K 48"-----	689.356
Reference mark, 97 ft. N.39°W. from tablet, in NW. angle of crossroads, in root of 24-in. black-oak tree; copper nail and washer-----	690.22
Addison, 0.6 mi. SE. of, 0.13 mi. NE. of W $\frac{1}{4}$ cor. sec. 27, T. 40 N., R. 11 E., at SE. end of Lake Street bridge over Salt Creek, on NE. side of street, on NW. end of concrete retaining wall; chiseled square----	672.71

8. From Hillside generally south along Mannheim road, Brainard Avenue, and Willow Springs road to point 0.7 mile northwest thence 0.8 mile north from Willow Springs (by F. D. Kramer in 1924)

Hillside, 1.0 mi. S. of, 2.4 mi. NW. of La Grange, near SW. cor. sec. 21, T. 39 N., R. 12 E., in triangle on N. side of Twenty-second Street and on W. side of Mannheim rd., in root of 24-in. black-oak tree; copper nail and washer (reported destroyed)-----	633.41
---	--------

<sup>90</sup> In 1941 this bench mark was reported destroyed.

<sup>1</sup> In 1936 this bench mark was tied to U. S. C. & G. S. chiseled square designated "T B M 15," elevation 641.511 ft.

La Grange, 1.3 mi. N. of Ashland Avenue crossing of C. B. & Q. R. R., 0.15 mi. W. of N $\frac{1}{4}$ cor. sec. 33, T. 39 N., R. 12 E., in SE. angle of intersection of Mannheim rd. and Thirty-first Street, in concrete post; standard tablet stamped "Prim Trav Sta No 12 K 1924 K 50"-----	<i>Feet</i> 635.050
Reference mark, in SW. angle of intersection, on concrete head wall of culvert; chiseled square (reported destroyed)-----	635.33
La Grange, at intersection of Ashland and Brewster Avenues; top of manhole cover-----	642.98
La Grange, 0.7 mi. S. of Ashland Avenue crossing of C. B. & Q. R. R., at NE. corner of intersection of Ashland Avenue and Forty-seventh Street, on curb; chiseled square (reported destroyed)-----	650.43
La Grange, at SE. corner of intersection of Brainard Avenue and Forty-seventh Street, near NW. cor. sec. 9, T. 38 N., R. 12 E., 33 ft. S. of center line of Forty-seventh Street, 93 ft. E. of NE. corner of St. Johannes Church, in concrete post; standard tablet stamped "Prim Trav Sta No 5 K 1924 K 51" <sup>1a</sup> -----	660.114
Reference mark, 175 ft. S. of intersection, on W. side of Brainard Avenue, in root of 20-in. elm tree; copper nail and washer-----	658.97
La Grange, 1.6 mi. S. of Brainard Avenue crossing of C. B. & Q. R. R., near SE. cor. sec. 8, T. 38 N., R. 12 E., on W. side of Brainard Avenue, in NW. angle of junction of private rd. NW., near corner of hedge fence, in root of 22-in. maple tree; copper nail and washer-----	668.73
La Grange, 2.7 mi. S. of Brainard Avenue crossing of C. B. & Q. R. R., 0.1 mi. S. of NE. cor. sec. 20, T. 38 N., R. 12 E., in SW. angle of intersection of Brainard Avenue and Joliet rd., in concrete post; standard tablet stamped "Prim Trav Sta No 4 K 1924 K 52"-----	695.126
Reference mark, 200 ft. SW. of crossroads, on SE. side of Joliet rd., NE. of gate, in root of 20-in. maple tree; copper nail and washer-----	698.02
La Grange, 2.7 mi. S. thence 0.6 mi. SW. from Brainard Avenue crossing of C. B. & Q. R. R., 2.9 mi. NW. of Willow Springs, 0.1 mi. N. of center of sec. 20, T. 38 N., R. 12 E., in SE. angle of intersection of Joliet and Willow Springs rds., on concrete head wall of culvert; chiseled square (reported destroyed)-----	702.27
Willow Springs, 2.1 mi. NW. of, 0.15 mi. S. of N $\frac{1}{4}$ cor. sec. 29, T. 38 N., R. 12 E., in NE. angle of junction of Fifth Avenue and Willow Springs rd., on concrete head wall of culvert; chiseled square (reported destroyed)-----	679.72

[Connects with line 10 in Des Plaines quadrangle]

9. From intersection of Brainard Avenue and Forty-seventh Street in La Grange west along Forty-seventh Street and Ogden Avenue to intersection of Fairview and Ogden Avenues in Downers Grove (by F. D. Kramer in 1924)

La Grange, 1.0 mi. along Forty-seventh Street W. of Brainard Avenue, in Western Springs, in NE. angle of intersection of Forty-seventh Street and Wolf rd., on curb; chiseled square (reported destroyed)-----	666.73
Western Springs, on S. side of Forty-seventh Street, 0.4 mi. W. of Wolf rd., 1.0 mi. E. of Garfield Avenue crossing of C. B. & Q. R. R. in Hinsdale, near N $\frac{1}{4}$ cor. sec. 7, T. 38 N., R. 12 E., on E. end of concrete coping of bridge over ditch; chiseled square (reported destroyed)-----	645.60

<sup>1a</sup> In 1942 it was reported that the tablet had been torn off, although the post remained. The reference mark was buried.

Hinsdale, 0.4 mi. E. of Garfield Avenue crossing of C. B. & Q. R. R., in SE. angle of intersection of Forty-seventh and Oak Streets, 640 ft. W. of NE. cor. sec. 12, T. 38 N., R. 11 E., in concrete post; standard tablet stamped "Prim Trav Sta No 7 K 1924 K 53"-----	<i>Feet</i> 677.353
Hinsdale, at NW. corner of intersection of Chicago Avenue and Madison Street, on curb; chiseled square-----	699.06
Hinsdale, 0.7 mi. W. thence 0.6 mi. N. from Garfield Avenue crossing of C. B. & Q. R. R., 0.25 mi. NE. of center of sec. 2, T. 38 N., R. 11 E., in NE. angle of Adams Street and Ogden Avenue, in concrete post; standard tablet stamped "Prim Trav Sta No 8 K 1924 K 54"-----	701.037
Reference mark, 345 ft. SW. of tablet, on NW. side of Ogden Avenue, on concrete head wall of culvert; chiseled square-----	697.28
Hinsdale, 1.0 mi. W. thence 0.5 mi. N. from, 1.0 mi. N. and 2.5 mi. E. from Downers Grove, near center of sec. 2, T. 38 N., R. 11 E., on N. side of Ogden Avenue, at junction of rd. S., on SW. corner of concrete sidewalk; chiseled square-----	707.50
Downers Grove, 1.0 mi. N. and 1.6 mi. E. from, 0.1 mi. E. of center of sec. 3, T. 38 N., R. 11 E., on S. side of Ogden Avenue, 57 ft. E. of junction of street S., in root of wild-cherry tree; copper nail and washer-----	746.62
Downers Grove, 1.0 mi. N. and 1.0 mi. E. from, near E $\frac{1}{4}$ cor. sec. 4, T. 38 N., R. 11 E., in NW. angle of intersection of Ogden Avenue and N.-S. rd., in concrete post; standard tablet stamped "Prim Trav Sta No 9 K 1924 K 55"-----	744.902
Reference mark, 310 ft. W. of crossroads, on S. side of Ogden Avenue, in root of 36-in. poplar tree; copper nail and washer-----	744.52
10. From La Grange east along Forty-seventh Street and southeast along Lawndale Avenue to Summit (by F. D. Kramer in 1924)	
La Grange, on N. side of Forty-seventh Street, 0.3 mi. E. of Ashland Avenue, in NW. angle of junction of street N., on E. end of sidewalk; chiseled square-----	640.99
Brookfield, in SW. part of, 0.9 mi. E. of Ashland Avenue, La Grange, 80 ft. W. of junction of Raymond Avenue, on N. side of Forty-seventh Street, on N. edge of concrete sidewalk; chiseled square-----	623.90
Brookfield, in S. part of, 0.15 mi. E. of S $\frac{1}{4}$ cor. sec. 3, T. 38 N., R. 12 E., in NE. angle of intersection of Forty-seventh Street and Plainfield rd., in concrete post; standard tablet stamped "Prim Trav Sta No 6 K 1924 K 56"-----	621.659
Reference mark, in NW. angle of crossroads, in lawn of dwelling, at base of 42-in. willow tree, on boulder; chiseled square-----	623.82
Brookfield, 0.8 mi. E. of intersection of Forty-seventh Street and Plainfield rd., 0.9 mi. N. of McCook, near N $\frac{1}{4}$ cor. sec. 11, T. 38 N., R. 12 E., 340 ft. S. of junction of Forty-seventh Street and Riverside Avenue, on W. side of rd., in root of silver-poplar tree; copper nail and washer-----	612.78
Wentworth triangulation sta. (Sanitary District of Chicago 1893), 0.5 mi. N. of McCook, 220 ft. N. and 415 ft. W. from center of sec. 11, T. 38 N., R. 12 E., on SE. side of Joliet rd., in line with Riverside Avenue; top of granite monument-----	610.610
Des Plaines River, under Lawndale Avenue bridge; surface of water Nov. 12, 1924-----	587.8
Chicago Sanitary and Ship Canal, under Lawndale Avenue bridge; surface of water Nov. 12, 1924-----	575.4

# 1626 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

McCook, 1.2 mi. in air line E. of, 0.5 mi. NE. of Summit, 0.1 mi. E. of quarter corner between secs. 12 and 13, T. 38 N., R. 12 E., in SE. angle of junction of Archer Avenue and Lawndale Avenue, on curb; chiseled square-----	<i>Feet</i> 617.81
Chicago West Base, U. S. Lake Survey (1877), near Summit, near center of sec. 13, T. 38 N., R. 12 E., on E. side of Archer Avenue, on N. side of Indiana Harbor Belt Line R. R., 82 ft. S. of S. wall of Zion Church, 69 ft. W. of NW. corner of greenhouse, in brass cylinder leaded in top of granite block; top of agate hemisphere <sup>2</sup> -----	615.908
Chicago West Base reference mark, 174.3 ft. S.82°53'W. from sta., on W. side of Archer Avenue, near bridge over Indiana Harbor Belt Line R. R.; top of stone post-----	613.569
11. From Summit east along Archer Avenue and Fifty-fifth Street to Latrobe Avenue (by F. D. Kramer in 1924)	
Chicago, at SW. corner of intersection of Neva Avenue and Fifty-sixth Street, in concrete monument; copper bolt (Chicago City B. M. 211)-----	614.223
Reference mark, in SE. corner of Archer and Neva Avenues, on top of concrete walk; chiseled square-----	622.88
Chicago, at SW. corner of Nagle Avenue and Fifty-sixth Street, in concrete monument; copper bolt (Chicago City B. M. 210)-----	613.190
Chicago, at SE. corner of intersection of Archer and Narragansett Avenues, near red brick entrance post, in concrete post; standard tablet stamped "Prim Trav Sta No 5 Y 1924 K 57"-----	610.301
Reference mark, 210 ft. E. of intersection of Archer and Narragansett Avenues, on S. side of Archer Avenue, on NW. corner of concrete walk; chiseled square-----	609.82
Chicago, at NE. corner of Austin Avenue and Fifty-fifth Street, in concrete post; bronze washer-----	606.00
Chicago, at NW. corner of Fifty-fifth Street and Luna Avenue, in concrete monument; copper bolt (Chicago City B. M. 208)-----	604.899
[Continued in Chicago quadrangle, line 3]	
12. From point 0.8 mile southeast of Itasca east about 1.5 miles along road and Chicago, Milwaukee, St. Paul & Pacific Railroad to point 0.5 mile east of Wooddale (by E. W. Gouchenour in 1938; leveled twice)	
[Connects with line 7 in Wheaton quadrangle]	
Itasca, 1.2 mi. SE. of, 0.6 mi. W. of Wooddale, near S¼ cor. sec. 9, T. 40 N., R. 11 E., 200 ft. W. of junction of rd. S., on S. head wall of concrete culvert; chiseled square-----	684.85 <sup>2</sup>
U. S. C. & G. S. B. M. designated "T B M 11"-----	701.872

<sup>2</sup> In 1935 it was reported that this bench mark had been destroyed.

# ROCHELLE QUADRANGLE

[Latitude 41°45'–42°00'; longitude 89°00'–89°15']

## LEE AND OGLE COUNTIES

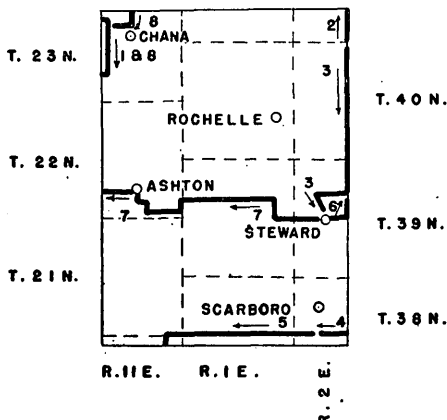


FIGURE 271.—Lines of leveling in Rochelle quadrangle.

1. From point 0.3 mile north and 1.5 miles east from Honey Creek along roads east 0.3 mile, thence south about 3.5 miles and west 0.3 mile to point 2.4 miles south and 1.5 miles west from Chana (by H. S. Senseney in 1916)

[A jog from Dixon quadrangle, line 1]

Honey Creek, 0.1 mi. S. and 1.8 mi. E. from, 0.6 mi. N. thence 1.2 mi. W. from Chana, near NW. cor. sec. 16, T. 23 N., R. 11 E., 45 ft. S. and 25 ft. E. from junction of rd. E.; standard iron post with bronze cap stamped "Prim Trav Sta No 37 1911 761" (recovered in 1934)---	Feet 760.536
Chana, 0.9 mi. S. thence 1.2 mi. W. from, near E¼ cor. sec. 20, T. 23 N., R. 11 E., at junction of rd. E., on W. side of rd., on boulder; chiseled square -----	707.06
Kyte River; surface of water July 17, 1916-----	682.1
Chana, 1.9 mi. S. and 1.2 mi. W. from, near E¼ cor. sec. 29, T. 23 N., R. 11 E., in SW. angle of junction of rd. W., in root of tree; copper nail and washer-----	747.10

[Continued in Dixon quadrangle, line 1]

2. From point near northwest corner sec. 3, T. 40 N., R. 2 E., north along road 1.5 miles to point 3.5 miles south and 1.5 miles east from Lindenwood (by G. F. Williams in 1923)<sup>2a</sup>

[Continued from De Kalb quadrangle, line 3]

T. 40 N., R. 2 E., near NW. cor. sec. 3, 5.0 mi. S. and 1.5 mi. E. from Lindenwood, 130 ft. E. of junction of T-rd. S., on S. side of rd., in line with rd. N. between secs. 33 and 34, T. 41 N., R. 2 E., in concrete post; standard tablet stamped "35 W 1923"-----	799.706
---	---------

<sup>2a</sup> The bench marks described in this line are shown also in De Kalb quadrangle as the end of line 3.

# 1628 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Reference mark, in NE. angle of junction of rd. N., in SW. corner of field fence, in root on W. side of 60-in. cottonwood tree; copper nail and washer-----	<i>Feet</i> 799.74
Lindenwood, 4.5 mi. S. and 1.5 mi. E. from, near W¼ cor. sec. 34, T. 41 N., R. 2 E., on E. side of rd., opposite junction of T-rd. W., in root on W. side of 36-in. cottonwood tree; copper nail and washer---	800.86
Lindenwood, 3.7 mi. S. and 1.5 mi. E. from, 0.19 mi. S. of E¼ cor. sec. 28, T. 41 N., R. 2 E., on W. side of rd., in yard of residence, 3 ft. W. of SE. fence corner, in root on W. side of forked maple tree; copper nail and washer-----	786.10
[Connects with line 4 in Kings quadrangle]	
3. From point near northwest corner sec. 3, T. 40 N., R. 2 E., along roads south to crossroads 1 mile north and 1 mile east from Steward, thence west 1.5 miles and south 0.5 mile to Steward Junction (by G. F. Williams in 1923) <sup>a</sup>	
T. 40 N., R. 2 E., near E. cor. secs. 4 and 9, 2.3 mi. N. and 1.7 mi. W. from Creston, on W. side of rd., at fence corner, 2 ft. W. of fence N., in line with fence S., on concrete base of 4-in. iron post; chiseled square-----	807.91
Creston, 1.3 mi. N. and 1.7 mi. W. from, near NW. cor. sec. 15, T. 40 N., R. 2 E., in SE. angle of crossroads, on S. end of E. head wall of culvert; chiseled square-----	818.79
Creston, 0.3 mi. N. and 1.7 mi. W. from, 0.8 mi. N. thence 3.6 mi. E. from Rochelle, near NW. cor. sec. 22, T. 40 N., R. 2 E., 75 ft. S. and 30 ft. E. from intersection of U. S. Highway 30, 45 ft. S. of fence corner, in concrete post; standard tablet stamped "36 W 1923"-----	861.944
Reference mark, in SW. angle of crossroads, on S. end of W. head wall of concrete culvert; chiseled square-----	862.05
Rochelle, 0.2 mi. S. thence 3.6 mi. E. from, 0.7 mi. S. and 1.7 mi. W. from Creston, near SE. cor. sec. 21, T. 40 N., R. 2 E., in NW. angle of crossroads, on W. head wall of concrete culvert; chiseled square---	832.81
Rochelle, 1.2 mi. S. and 3.6 mi. E. from, 1.7 mi. S. and 1.7 mi. W. from Creston, near SE. cor. sec. 28, T. 40 N., R. 2 E., 180 ft. N. of junction of T-rd. W., on W. side of rd., 25 ft. S. of SE. corner of fence of yard of residence, in field, in root on E. side of 30-in. maple tree; copper nail and washer-----	828.17
Rochelle, 1.7 mi. S. and 3.6 mi. E. from, 2.2 mi. S. and 1.7 mi. W. from Creston, near E¼ cor. sec. 33, T. 40 N., R. 2 E., 45 ft. N. and 45 ft. W. from crossroads, in SE. corner of yard of residence, in root on E. side of 12-in. tree, southernmost of two maple trees standing close together; copper nail and washer-----	857.96
Rochelle, 2.2 mi. S. and 3.6 mi. E. from, 2.7 mi. S. and 1.7 mi. W. from Creston, 1.0 mi. E. thence 3.0 mi. N. from Steward, at Lee-Ogle county line, near S. cor. secs. 33 and 34, T. 40 N., R. 2 E., at offset crossroads, on N. side of county-line rd., 25 ft. E. of junction of T-rd. S., 2 ft. S. of fence post with iron-pipe supports, in concrete post; standard tablet stamped "37 W 1923"-----	835.677
Reference mark, on W. head wall of concrete culvert under rd. S.; chiseled square-----	837.42

<sup>a</sup> The first part of this line appears in De Kalb quadrangle as line 4.

Steward, 1.0 mi. E. thence 1.7 mi. N. from, 0.2 mi. N. of W $\frac{1}{4}$ cor. sec. 10, T. 39 N., R. 2 E., on E. side of rd., 80 ft. N. and 6 ft. E. from SW. corner of barnyard fence, in root on W. side of 12-in. maple tree; copper nail and washer-----	<i>Feet</i> 880.39
Steward, 1.0 mi. E. thence 1.0 mi. N. from, 0.5 mi. N. thence 1.5 mi. E. from Steward Junction, 220 ft. S. and 25 ft. W. from NE. cor. sec. 16, T. 39 N., R. 2 E., in SW. angle of crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 3 1912" (recovered in 1934)-----	895.690
Reference mark, in NE. angle of crossroads, in root on W. side of 18-in. maple tree, corner tree of fence; copper nail and washer (recovered in 1934)-----	891.60
Steward Junction, 0.5 mi. N. of, on E. side of rd., 30 ft. N. of driveway, 20 ft. N. and 10 ft. E. from fence post of gate to driveway, in root on SW. side of 24-in. maple tree; copper nail and washer-----	823.90
U. S. C. & G. S. standard disk stamped "Steward 1920"-----	819.142

4. From point 1.5 miles south and 1.5 miles east from Scarboro west along road to Chicago, Milwaukee, St. Paul & Pacific Railroad, thence north along railroad to point 1.2 miles south of Scarboro (by G. F. Williams in 1923)

[Continued from De Kalb quadrangle, line 5]

Scarboro, 1.5 mi. S. and 0.5 mi. E. from, near NW. cor. sec. 21, T. 38 N., R. 2 E., in SE. angle of crossroads, 10 ft. S. of fence corner, in root on NE. side of 10-in. maple tree; copper nail and washer-----	830.70
Scarboro, 1.5 mi. S. of, at C. M. St. P. & P. R. R. crossing; top of W. rail-----	821.8
U. S. C. & G. S. standard disk stamped "Fred 1920"-----	817.571
5. From point on Chicago, Milwaukee, St. Paul & Pacific Railroad 1.2 miles south of Scarboro south along railroad 0.3 mile, thence along roads west about 8 miles, thence south 0.5 mile to point 3.7 miles north and 2 miles west from West Brooklyn (by G. W. Moore in 1930)	

U. S. C. & G. S. standard reference disk designated "R M Fred"-----	816.728
Scarboro, 1.5 mi. S. and 0.3 mi. W. from, 0.25 mi. E. of NW. cor. sec. 20, T. 38 N., R. 2 E., in SE. angle of crossroads, on S. end of V-shaped culvert; chiseled square-----	844.21
Scarboro, 1.5 mi. S. and 1.1 mi. W. from, 0.1 mi. W. of probable quarter corner between secs. 18 and 19, 0.2 mi. E. of cor. secs. 13, 18, 19, and 24, T. 38 N., Rs. 1 and 2 E., 190 ft. E. of farmhouse of J. M. Willman, 30 ft. N. of rd., in root on SW. side of 14-in. maple tree, southeasternmost tree in garden; copper nail and washer-----	855.63
Scarboro, 1.5 mi. S. and 1.8 mi. W. from, near S $\frac{1}{4}$ cor. sec. 13, T. 38 N., R. 1 E., 75 ft. N. and 35 ft. E. from crossroads, in schoolyard, in concrete post; standard tablet stamped "6 M 1930"-----	818.103
Reference mark, 22 ft. S. and 87 ft. E. from tablet, on SW. corner of concrete platform of schoolhouse; chiseled square-----	823.72
Scarboro, 1.5 mi. S. and 2.8 mi. W. from, near S $\frac{1}{4}$ cor. sec. 14, T. 38 N., R. 1 E., 22 ft. N. and 95 ft. E. from intersection of U. S. Highway 51, on S. end of concrete retaining wall; chiseled square-----	782.46
Scarboro, 1.5 mi. S. and 3.8 mi. W. from, near N $\frac{1}{4}$ cor. sec. 22, T. 38 N., R. 1 E., 25 ft. S. and 35 ft. E. from crossroads, on E. end of S. head wall of concrete culvert; chiseled square-----	765.58

## 1630 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Scarboro, 1.5 mi. S. and 4.3 mi. W. from, 4.2 mi. N. thence 2.0 mi. E. from West Brooklyn, 26 ft. N. and 30 ft. E. from SW. cor. sec. 15, T. 38 N., R. 1 E., in NE. angle of crossroads, at fence corner, 2 ft. from telephone pole; standard iron post with bronze cap stamped "Prim Trav Sta No 5 1912"-----	<i>Feet</i> 762.454
Reference mark, 148 ft. S. and 100 ft. W. from iron post; 118 ft. S. and 70 ft. W. from crossroads, at entrance to schoolhouse, on NE. corner of concrete platform; chiseled square-----	764.36
West Brooklyn, 4.2 mi. N. thence 1.0 mi. E. from, near SW. cor. sec. 16, T. 38 N., R. 1 E., in NE. angle of crossroads, on S. end of E. head wall of concrete culvert; chiseled square-----	759.24
West Brooklyn, 4.2 mi. N. of, near SE. cor. sec. 18, T. 38 N., R. 1 E., in NW. angle of crossroads, on S. end of W. head wall of concrete bridge over ditch; chiseled square-----	756.64
West Brooklyn, 4.2 mi. N. thence 0.9 mi. W. from, near E. cor. secs. 1 and 36, Tps. 20 and 21 N., R. 11 E., 35 ft. S. and 90 ft. W. from junction of T-rd. N., in concrete post; standard tablet stamped "7 M 1930"-----	751.950
Reference mark, 105 ft. NE. of tablet, in NE. angle of rd. junction, 350 ft. S. and 10 ft. E. from W. cor. secs. 18 and 19, T. 38 N., R. 1 E., on top near center of wing of retaining wall between two iron bridges; chiseled square-----	753.36
West Brooklyn, 4.2 mi. N. thence 1.9 mi. W. from, 0.14 mi. E. of SW. cor. sec. 36, T. 21 N., R. 11 E., 60 ft. N. of rd., in schoolyard, 13.5 ft. S. of schoolhouse, on NW. corner of pump platform; chiseled square-----	751.95
[Continued in Mendota quadrangle, line 3]	
6. From Steward Junction along roads south and east to crossroads 1 mile east of Steward, thence north 1 mile (by E. W. Gouchenour in 1934)	
U. S. C. & G. S. standard reference disk designated "R M Steward"-----	819.126
Steward, at crossroads, 0.25 mi. W. of SE. cor. sec. 17, T. 39 N., R. 2 E., on N. head wall of concrete culvert under rd. W.; chiseled square-----	817.66
Steward, at E. edge of, 240 ft. E. of quarter corner between secs. 16 and 21, T. 39 N., R. 2 E., on N. wing wall of E. abutment of highway bridge; chiseled square-----	825.58
Steward, 1.0 mi. E. of, near S. cor. secs. 15 and 16, T. 39 N., R. 2 E., at crossroads, on N. end of W. wall of concrete bridge under rd. N.; chiseled square-----	836.30
[Continued in De Kalb quadrangle, line 10]	
7. From Steward along roads generally west to point 1.7 miles west of Ashton (by U. K. Sick in 1934)	
Steward, 1.2 mi. W. of, 800 ft. W. of E. cor. secs. 18 and 19, T. 39 N., R. 2 E., in S. wing wall of E. abutment of bridge; monel-metal rivet-----	802.68
Steward, 1.8 mi. W. of, near SW. cor. sec. 18, T. 39 N., R. 2 E., 32 ft. N. and 180 ft. E. from crossroads, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "3 5 1934"-----	793.122
Steward, 2.5 mi. W. of, 0.22 mi. W. of quarter corner between secs. 13 and 24, T. 39 N., R. 1 E., 0.28 mi. E. of crossroads, in top of N. head wall of concrete culvert; monel-metal rivet-----	786.40
Steward, 2.8 mi. W. thence 0.2 mi. N. from, 0.17 mi. N. of SW. cor. sec. 13, T. 39 N., R. 1 E., in top of E. head wall of culvert; monel-metal rivet-----	783.42

Steward, 2.8 mi. W. thence 1.0 mi. N. from, 0.5 mi. S. and 7.4 mi. E. from Ashton, near SE. cor. sec. 11, T. 39 N., R. 1 E., 113 ft. N. and 37 ft. W. from crossroads, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "3 4 1934"-----	Feet 777.291
Reference mark, in SW. angle of crossroads, on S. head wall of concrete culvert; chiseled square-----	780.17
Ashton, 0.5 mi. S. and 6.3 mi. E. from, near NE. cor. sec. 15, T. 39 N., R. 1 E., 32 ft. S. and 340 ft. W. from junction of T-rd. N., on W. edge of driveway, in root of 30-in. maple tree; machine bolt-----	783.18
Ashton, 0.5 mi. S. and 5.4 mi. E. from, near SW. cor. sec. 10, T. 39 N., R. 1 E., 25 ft. N. and 35 ft. E. from junction of T-rd. N.; standard iron post with bronze cap stamped "Prim Trav Sta No 86 1912"-----	783.117
Ashton, 0.5 mi. S. and 4.4 mi. E. from, near NW. cor. sec. 16, T. 39 N., R. 1 E., 30 ft. S. and 130 ft. E. from crossroads, in root of 36-in. cottonwood tree; carriage bolt-----	783.94
Ashton, 0.5 mi. S. and 4.3 mi. E. from, 730 ft. W. of SE. cor. sec. 8, T. 39 N., R. 1 E., in top of N. head wall of concrete culvert; monel-metal rivet-----	785.20
Ashton, 0.5 mi. S. and 3.4 mi. E. from, near SW. cor. sec. 8, T. 39 N., R. 1 E., 28 ft. N. and 109 ft. E. from crossroads, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "3 3 1934"-----	776.523
Ashton, 0.5 mi. S. and 2.5 mi. E. from, near NE. cor. sec. 36, T. 22 N., R. 11 E., 105 ft. S. of T-junction of N.-S. rd., in concrete floor along W. rail of concrete bridge; monel-metal rivet-----	779.55
Ashton, 1.0 mi. S. and 2.5 mi. E. from, near W¼ cor. sec. 18, T. 39 N., R. 1 E., 155 ft. N. and 35 ft. E. from junction of T-rd. W., on N. side of lane, in root of 20-in. boxelder tree; nail and washer-----	793.87
Ashton, 1.0 mi. S. and 1.5 mi. E. from, near W¼ cor. sec. 36, T. 22 N., R. 11 E., 114 ft. S. and 30 ft. E. from junction of T-rd. S., in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "3 2 1934"-----	792.628
Ashton, 1.0 mi. S. and 1.2 mi. E. from, 0.25 mi. E. of center of sec. 35, T. 22 N., R. 11 E., 0.25 mi. W. of junction of T-rd. S., at E. end of bridge, on N. curb; chiseled square-----	787.17
Ashton, 1.0 mi. S. and 0.5 mi. E. from, near W¼ cor. sec. 35, T. 22 N., R. 11 E., 25 ft. S. and 68 ft. E. from junction of N.-S. rd., in root of tree; nail and washer-----	798.27
Ashton, 0.5 mi. S. thence 0.5 mi. E. from, near E. cor. secs. 27 and 34, T. 22 N., R. 11 E., at right-angle bend W. in rd., 195 ft. W. of center line of rd. S., on N. head wall of concrete culvert; chiseled square--	793.77
Ashton, 0.5 mi. S. of, near S¼ cor. sec. 27, T. 22 N., R. 11 E., 675 ft. N. of right-angle turn N. in rd., on E. head wall of concrete culvert; chiseled square-----	794.63
Ashton, 174 ft. E. of junction of T-rd. W., 27 ft. N. of N. rail of N. track of Chicago & North Western Ry., in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "3 1 1934"-----	810.357
Ashton, 0.7 mi. W. of, 0.23 mi. W. of E¼ cor. sec. 28, T. 22 N., R. 11 E., 1,200 ft. W. of intersection of Richardson Avenue and Lincoln Highway in Ashton, on N. head wall of concrete culvert; chiseled square--	815.87

# 1632 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Ashton, 1.5 mi. W. of, 30 ft. N. and 25 ft. E. from W $\frac{1}{4}$  cor. sec. 28,  
T. 22 N., R. 11 E., in NE. angle of junction of T-rd. N.; standard iron Feet  
post with bronze cap stamped "Prim Trav Sta No 40 1911"----- 824.630

[Continued in Dixon quadrangle, line 6]

8. From point 1.3 miles north of Chana alternately south and west  
along roads to point 2.4 miles south and 1.5 miles west from  
Chana (by U. K. Sick in 1934)

[Continued from Kings quadrangle, line 8]

Chana, 0.6 mi. N. of, 0.25 mi. E. of SW. cor. sec. 10, T. 23 N., R. 11 E.,  
in NW. angle of crossroads, on W. head wall of concrete culvert  
under rd. N.; chiseled square----- 774.80

Chana, 0.6 mi. N. thence 1.0 mi. W. from, 0.2 mi. E. of W. cor. secs.  
9 and 16, T. 23 N., R. 11 E., 0.2 mi. E. of junction of N-S. rd., on  
N. head wall of concrete culvert; chiseled square----- 759.02

Chana, 0.4 mi. S. and 1.2 mi. W. from, 650 ft. S. of NW. cor. sec. 21, T.  
23 N., R. 11 E., on E. head wall of N. abutment of bridge; chiseled  
square----- 716.63

Chana, 1.1 mi. S. and 1.2 mi. W. from, 0.25 mi. S. of quarter corner  
between secs. 20 and 21, T. 23 N., R. 11 E., at bridge over Kyte River,  
on E. wing wall of N. abutment; chiseled square----- 695.48

Chana, 2.4 mi. S. and 1.2 mi. W. from, near SW. cor. sec. 28, T. 23 N.,  
R. 11 E., 125 ft. N. and 25 ft. E. from junction of E-W. rd., on S. end of  
concrete-pipe culvert under driveway to schoolhouse; chiseled  
square----- 757.65

[Continued in Dixon quadrangle, line 7]

# ROCKFORD QUADRANGLE

[Latitude 42°15'–42°30'; longitude 89°00'–89°15']

## WINNEBAGO COUNTY

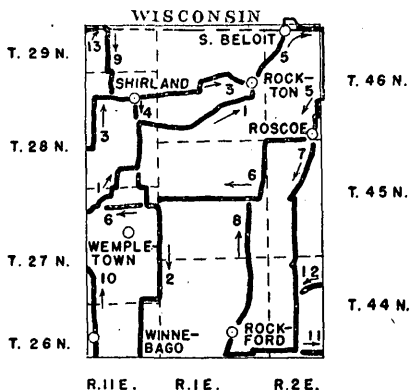


FIGURE 272.—Lines of leveling in Rockford quadrangle.

1. From point 1 mile southeast of Trask Bridge over Pecatonica River along roads generally northeast by way of Harrison to Rockton (by J. M. Perkins in 1915)

[Continued from Pecatonica quadrangle, line 1]

Trask Bridge, 1.1 mi. SE. of, 2.5 mi. NW. of Wempletown, in NE¼ sec. 8, T. 27 N., R. 11 E., 90 ft. SE. of junction of rd. SW., 160 ft. NW. of junction of rd. NE., on NE. parapet of concrete bridge; painted square (recovered in 1917 and probably remarked by chiseled square) -----	<b>Feet</b> 737.05
Wempletown, 2.5 mi. NW. thence 0.5 mi. NE. from, 4.3 mi. S. and 2.4 mi. W. from Harrison, near Mud School, 0.25 mi. E. of SW. cor. sec. 4, T. 27 N., R. 11 E., in NW. angle of junction of rd. N., near fence corner; standard iron post with bronze cap stamped "1915 757" (recovered in 1917) -----	755.813
Harrison, 3.3 mi. S. and 1.2 mi. W. from, 0.25 mi. E. of SW. cor. sec. 34, T. 28 N., R. 11 E., 60 ft. N. of junction of T-rd. N., in root of large willow tree; copper nail and washer. -----	743.13
Harrison, 2.3 mi. S. of, near quarter corner between secs. 26 and 35, T. 28 N., R. 11 E., at Youngs School, on E. side of rd., opposite junction of T-rd. W., in schoolyard, 20 ft. N. of pump; standard iron post with bronze cap stamped "1915 746" -----	744.704
Harrison, 1.3 mi. S. of, near N¼ cor. sec. 26, T. 28 N., R. 11 E., at junction of T-rd. E., in root of large boxelder tree; copper nail and washer -----	758.77
Harrison, 550 ft. E. of bridge over Pecatonica River, on N. side of E.-W. rd., in line with center of rd. S.; standard iron post with bronze cap stamped "734" -----	733.071

# 1634 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Harrison, 1.0 mi. SE. of, near NW. cor. sec. 31, T. 46 N., R. 1 E., at junction of rd. S. along Third Principal Meridian, 40 ft. S. of rd. junction, in root of elm tree; copper nail and washer-----	Feet 732.41
Harrison, 2.4 mi. SE. of, 4.9 mi. SW. of Rockton, opposite Bates School, 0.2 mi. N. of center of sec. 32, T. 46 N., R. 1 E., in SW. angle of junction of rd. S., near fence corner; standard iron post with bronze cap stamped "1915 741"-----	740.149
Rockton, 1.0 mi. S. and 1.3 mi. W. from, near NW. cor. sec. 26, T. 46 N., R. 1 E., in SE. angle of junction of rd. S., near fence corner; standard iron post with bronze cap stamped "1915 743" <sup>4</sup> -----	742.274
Rockton, on E. side of highway bridge over Rock River, in line with northernmost of two small islands; top of bolt-----	728.04
Rock River, under highway bridge; surface of water Aug. 19, 1915.---	712.8.
Rockton, in NE. corner of yard of Town Hall; standard iron post with bronze cap stamped "1915 741" <sup>5</sup> -----	740.247

## 2. From road junction 2.3 miles south of Harrison generally south along roads to point 1 mile south and 2.5 miles east from Winnebago (by J. M. Perkins in 1915)

Harrison, 3.3 mi. S. of, near S $\frac{1}{4}$ cor. sec. 35, T. 28 N., R. 11 E., at junction of T-rd. N., in root of large cottonwood tree; copper nail and washer.	766.47
Harrison, 4.3 mi. S. and 0.5 mi. E. from, near NW. cor. fractional sec. 12, T. 27 N., R. 11 E., in SE. angle of crossroads, near fence corner, in root of locust tree; copper nail and washer.-----	790.74
Harrison, 4.3 mi. S. and 1.0 mi. E. from, 1.4 mi. N. and 1.5 mi. E. from Wempletown, 0.25 mi. S. of NW. cor. sec. 19, T. 45 N., R. 1 E., 15 ft. S. and 25 ft. E. from E. cor. secs. 1 and 12, T. 27 N., R. 11 E., on E. side of rd. along Third Principal Meridian, 15 ft. S. of junction of T-rd. W.; standard iron post with bronze cap stamped "Prim Trav Sta No 9 1915 825" (recovered in 1917)-----	824.260
Wempletown, 0.7 mi. S. and 1.5 mi. E. from, near NE. cor. fractional sec. 24, T. 27 N., R. 11 E., at crossroads, in SW. corner of yard of dwelling of J. N. Lillie, in root of maple tree; copper nail and washer.-----	810.48
Wempletown, 2.0 mi. S. and 1.5 mi. E. from, 3.1 mi. N. and 3.5 mi. E. from Winnebago, near E $\frac{1}{4}$ cor. fractional sec. 25, T. 27 N., R. 11 E., in NW. angle of junction of rd. along Third Principal Meridian and rd. W., near fence corner; standard iron post with bronze cap stamped "1915 800"-----	799.024
Winnebago, 1.0 mi. N. and 2.5 mi. E. from, 0.25 mi. S. of center of sec. 2, T. 26 N., R. 11 E., at intersection of N-S rd. and U. S. Highway 20, in root of maple tree; copper nail and washer.-----	815.37
Winnebago, 0.3 mi. S. and 2.5 mi. E. from, near N $\frac{1}{4}$ cor. sec. 14, T. 26 N., R. 11 E., in SW. angle of crossroads, near fence corner; standard iron post with bronze cap stamped "1915 800"-----	799.351

[Continued in Kings quadrangle, line 1]

<sup>4</sup>In 1923 this bench mark was tied to U. S. C. & G. S. standard triangulation disk stamped "Bond 1920," elevation 730.726 ft. In 1929 this iron post was moved 12 ft. south of its original location and reset at an elevation 0.490 ft. higher than originally determined. The figures given represent the new elevation.

<sup>5</sup>In 1923 this bench mark was tied to U. S. C. & G. S. standard triangulation disk stamped "Rockton 1920," elevation 746.442 ft. and standard triangulation reference disk stamped "Rockton 1920," elevation 745.881 ft.

3. From point 1.3 miles south and 2.8 miles west from Harrison along roads alternately east and north by way of Shirland to Rockton (by W. S. Gehres in 1915) .

[Continued from Pecatonica quadrangle, line 4]

Harrison, 1.3 mi. S. and 2.5 mi. W. from, 2.5 mi. N. and 1.0 mi. E. from Trask Bridge over Pecatonica River, near NW. cor. sec. 28, T. 28 N., R. 11 E., on S. right-of-way line of E.-W. rd., 70 ft. E. of center line of T.-rd. N., in base of maple tree; copper nail and washer-----	Feet 786.80
Harrison, 0.5 mi. S. and 2.5 mi. W. from, 0.1 mi. S. of NE. cor. sec. 20, T. 28 N., R. 11 E., on S. end of W. retaining wall of culvert; chiseled square-----	756.57
Harrison, 0.7 mi. N. and 2.5 mi. W. from, 0.6 mi. S. and 2.3 mi. W. from Shirland, near SE. cor. sec. 8, T. 28 N., R. 11 E., in NW angle of junction of T.-rd. W.; standard iron post with bronze cap stamped "736" (recovered in 1932)-----	734.564
Shirland, 1.9 mi. W. of, 0.25 mi. N. of center of sec. 9, T. 28 N., R. 11 E., in N. end of E. abutment of bridge over Sugar River; top of bolt (recovered in 1917)-----	736.77
Shirland, 180 ft. S. of crossing of Chicago, Milwaukee, St. Paul & Pacific R. R., on W. side of street, in front of post office, on SE. corner of concrete sidewalk; chiseled square-----	733.10
Shirland, 1.1 mi. along rd. NE. of, 0.2 mi. S. of NE. cor. fractional sec. 12, T. 28 N., R. 11 E., at intersection of S. right-of-way line of rd. E. and SE. right-of-way line of NE.-SW. rd.; standard iron post with bronze cap stamped "824"-----	822.986
Shirland, 0.3 mi. N. and 2.6 mi. E. from, near center of sec. 20, T. 46 N., R. 1 E., 0.15 mi. W. of crossing of C. M. St. P. & P. R. R. and E.-W. rd., on N. side of rd. opposite private rd. S. to dwelling, in base of elm tree; copper nail and washer-----	731.04
Shirland, 0.3 mi. N. and 3.4 mi. E. from, 0.25 mi. E. of W $\frac{1}{4}$ cor. sec. 21, T. 46 N., R. 1 E., on S. side of rd., in base of oak tree; copper nail and washer-----	726.25
Shirland, 0.3 mi. N. and 3.6 mi. E. from, about 3 mi. in air line W. of Rockton, near center of sec. 21, T. 46 N., R. 1 E., 0.15 mi. S. of crossing of C. M. St. P. & P. R. R. and N.-S. rd., in NW. angle of junction of T.-rd. N., in base of hickory tree; copper nail and washer-----	725.72
Rockton, 0.2 mi. N. and 2.8 mi. W. from, 0.2 mi. N. of S $\frac{1}{4}$ cor. sec. 16, T. 46 N., R. 1 E., in SW. angle of junction of rd. S.; standard iron post with bronze cap stamped "731"-----	729.755
Rockton, 1.4 mi. NW. of, near E $\frac{1}{4}$ cor. sec. 15, T. 46 N., R. 1 E., in NW. angle of rd. junction, in base of maple tree; copper nail and washer-----	759.74
Rockton, 1.2 mi. NW. of, in SW $\frac{1}{4}$ sec. 14, T. 46 N., R. 1 E., on SW. end of NW. abutment of highway bridge over Rock River; chiseled square-----	726.61
4. From Shirland south along road to Harrison (by W. S. Gehres in 1915)	
Shirland, 0.5 mi. S. of, 0.7 mi. NW. of Harrison, 0.2 mi. W. of S $\frac{1}{4}$ cor. sec. 11, T. 28 N., R. 11 E., on W. end of N. abutment of bridge over Sugar River; chiseled square-----	729.79

5. From Rockton northeast and east along roads to point on Illinois-Wisconsin State line 0.6 mile north and 1.9 miles east from South Beloit, thence south and west to Roscoe (by C. H. Semper in 1917) \*

Rockton, 3.5 mi. NE. of, in South Beloit, at NE. corner of highway bridge over Turtle Creek, 2 ft. E. of bridge, in retaining wall; standard tablet stamped "745" ?-----	Feet 743.947
--	-----------------

[Jogs into Wisconsin]

South Beloit, 0.6 mi. N. and 1.9 mi. E. from, 5.5 mi. N. and 0.5 mi. E. from Roscoe, at Illinois-Wisconsin State line, 0.4 mi. W. of SE. cor. sec. 31, T. 1 N., R. 13 E. (Wis.), on N. side of rd., at junction of T-rd. S., 35 ft. N. of N. cor. fractional secs. 3 and 4, T. 46 N., R. 2 E. (Ill.); standard iron post with bronze cap stamped "Prim Trav Sta No 7 1915 799"-----	798.710
---	---------

Roscoe, 3.8 mi. N. and 0.5 mi. E. from, near SW. cor. sec. 10, T. 46 N., R. 2 E., 50 ft. N. of crossroads, on SE. wing wall of concrete bridge over Dry Creek; chiseled square-----	767.27
---	--------

Roscoe, 2.8 mi. N. and 0.5 mi. E. from, near NE. cor. sec. 21, T. 46 N., R. 2 E., in SW. angle of crossroads; standard iron post with bronze cap stamped "785"-----	783.782
---	---------

Roscoe, 0.8 mi. N. and 0.3 mi. E. from, 0.15 mi. W. of SE. cor. sec. 28, T. 46 N., R. 2 E., at junction of T-rd. N., on head wall of culvert; chiseled square-----	750.12
--	--------

Roscoe, in E. end of N. abutment of bridge over Kinnikinnick Creek; aluminum tablet stamped "728" (probably destroyed)-----	727.648
---	---------

6. From Roscoe along roads west and south to Latham Park, thence west to road junction 1.4 miles north and 1.7 miles west from Wempletown (by C. H. Semper in 1917)

Roscoe, 2.5 mi. W. and 1.3 mi. S. from, 2.0 mi. N. of Latham Park, near NE. cor. sec. 12, T. 45 N., R. 1 E., at crossroads; standard iron post with bronze cap stamped "806"-----	805.394
---	---------

Latham Park, 1.0 mi. W. of, 2.0 mi. E. of Owen Center, near NW. cor. sec. 24, T. 45 N., R. 1 E., at crossroads; standard iron post with bronze cap stamped "805"-----	803.911
---	---------

Owen Center, 1.0 mi. W. of, 1.7 mi. N. and 3.5 mi. E. from Wempletown, near SW. cor. sec. 16, T. 45 N., R. 1 E., at crossroads; standard iron post with bronze cap stamped "848"-----	847.080
---	---------

Wempletown, 1.4 mi. N. and 1.0 mi. W. from, near NW. cor. sec. 10, T. 27 N., R. 11 E., at crossroads, on boulder; chiseled square-----	821.93
--	--------

7. From Roscoe generally south along roads to State Highway 5 at six-way road fork, thence west and north to Rockford (by C. H. Semper in 1917)

Roscoe, in S. part of village, near N $\frac{1}{4}$ cor. sec. 4, T. 45 N., R. 2 E., in SE. corner of intersection of Bridge and Main Streets; standard iron post with bronze cap stamped "Prim Trav Sta No 8 1915 742"-----	741.426
---	---------

Roscoe, 1.8 mi. SW. of, in SW $\frac{1}{4}$ sec. 9, T. 45 N., R. 2 E., on W. side of twin culverts, 4 ft. N. of center; chiseled square-----	729.21
--	--------

\* Portion of line north of Roscoe appears also in Belvidere quadrangle, line 1.

\* In 1931 this bench mark was tied to U. S. C. & G. S. standard triangulation-station disk stamped "State Line 1920," elevation 742.239 ft.

Roscoe, 3.4 mi. SW. of, 1.6 mi. E. of Latham Park, near S $\frac{1}{4}$ cor. sec. 17, T. 45 N., R. 2 E.; standard iron post with bronze cap stamped "739" <sup>8</sup> -----	<i>Feet</i> 737.809
Roscoe, 3.6 mi. SW. of, 0.25 mi. S. of N $\frac{1}{4}$ cor. sec. 20, T. 45 N., R. 2 E., near crossroads, on S. head wall of concrete culvert; chiseled square-----	736.74
Roscoe, 4.4 mi. SW. of, 3.0 mi. N. and 1.5 mi. E. from Loves Park, near N $\frac{1}{4}$ cor. sec. 29, T. 45 N., R. 2 E., on S. side of Willow Creek, in root of large tree; copper nail and washer-----	739.66
Loves Park, 1.0 mi. N. and 1.5 mi. E. from, near S $\frac{1}{4}$ cor. sec. 32, T. 45 N., R. 2 E., at crossroads; standard iron post with bronze cap stamped "747"-----	746.297
Loves Park, 1.0 mi. S. and 1.5 mi. E. from, 1.7 mi. N. and 3.5 mi. E. from Winnebago County courthouse in Rockford, near N $\frac{1}{4}$ cor. sec. 17, T. 44 N., R. 2 E., at five-way rd. fork, 65 ft. E. of N.-S. rd., in root of 36-in. oak tree; copper nail and washer-----	786.77
Rockford, 0.7 mi. N. and 3.5 mi. E. from, near N $\frac{1}{4}$ cor. sec. 20, T. 44 N., R. 2 E., at junction of rd. E.; standard iron post with bronze cap stamped "846"-----	845.303
Rockford, 1.3 mi. S. and 3.5 mi. E. from, near N $\frac{1}{4}$ cor. sec. 32, T. 44 N., R. 2 E., 20 ft. S. and 20 ft. W. from crossroads, on NE. side of State rd., at six-way rd. fork; standard iron post with bronze cap stamped "Prim Trav Sta No 3 1917 864"-----	863.204
Rockford, 1.3 mi. S. and 2.0 mi. E. from, at E. corporate limits, near NE. cor. sec. 36, T. 44 N., R. 1 E., 4 ft. E. of concrete walk; standard iron post with bronze cap stamped "779"-----	777.690
Reference mark, 500 ft. E. of iron post, on S. head wall of concrete culvert; chiseled square-----	770.26
Rockford, at intersection of Fourteenth Avenue and Kishwaukee Street; top of hydrant-----	742.84
Rockford, in E. face of post office building, on S. side of entrance; aluminum tablet stamped "720" (recovered by U. S. C. & G. S. in 1920)-----	719.615
8. From Rockford northeast and north along roads to crossroads 1 mile west of Latham Park (by C. H. Semper in 1917)	
Rockford, at intersection of Main Street and Harlem Boulevard; top of hydrant-----	728.99
Rockford, 4.0 mi. NE. of post office, 1.4 mi. S. of Genet, 3.0 mi. S. and 1.0 mi. W. from Latham Park, near NE. cor. sec. 2, T. 44 N., R. 1 E.; standard iron post with bronze cap stamped "728"-----	727.589
9. From point on Illinois-Wisconsin State line near northeast corner of fractional section 21, T. 29 N., R. 11 E., south along roads to road junction 1.3 miles west of Shirland, thence west 0.5 mile to highway bridge over Sugar River (by C. H. Semper in 1917)	
[Continued from Wisconsin]	
Shirland, 3.7 mi. N. and 1.5 mi. W. from, on Illinois-Wisconsin State line, at S. cor. secs. 31 and 32, T. 1 N., R. 11 E. (Wis.), on stone marking sec. corner; chiseled square (recovered in 1919)-----	865.06
Shirland, 3.4 mi. N. and 1.4 mi. W. from, near SW. cor. fractional sec. 22, T. 29 N., R. 11 E., in root of oak tree; copper nail and washer-----	895.22

<sup>8</sup> In 1939 this bench mark was reported destroyed.

# 1638 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Shirland, 1.4 mi. N. and 1.5 mi. W. from, near NE. cor. sec. 4, T. 28 N., R. 11 E., in SW. angle of junction of T-rd. S.; standard iron post with bronze cap stamped "864"-----	<i>Feet</i> 863.141
10. From point 1 mile south of Winnebago along roads north and northwest to point 3.5 miles north and 0.4 mile west from Winnebago (by C. H. Semper in 1917)	
[Continued from Kings quadrangle, line 6]	
Winnebago, at S. corporate limits of, near NW. cor. sec. 16, T. 26 N., R. 11 E.; standard iron post with bronze cap stamped "885" <sup>9</sup> -----	884.220
Winnebago, 1.0 mi. N. of, 0.1 mi. S. of W¼ cor. sec. 4, T. 26 N., R. 11 E., at intersection of U. S. Highway 20 and N-S. rd., on N. head wall of culvert; chiseled square-----	842.05
Winnebago, 3.0 mi. N. of, 6.0 mi. in air line E. of Pecatonica, near E¼ cor. sec. 29, T. 27 N., R. 11 E.; standard iron post with bronze cap stamped "859"-----	858.977
[Connects with line 1 in Pecatonica quadrangle]	
11. From point in southeast part of Rockford east along road to point 1.2 miles north and 2.5 miles west from Cherry Valley (by F. A. Danforth in 1917)	
[Continued from Kings quadrangle, line 2]	
Rockford, in NE. corner of intersection of Eleventh Street and Fourteenth Avenue; top of hydrant-----	735.90
Rockford, 1.3 mi. S. and 3.0 mi. E. from Winnebago County courthouse, near SE. cor. sec. 30, T. 44 N., R. 2 E., in center of N. head wall of culvert; aluminum tablet stamped "813" <sup>10</sup> -----	810.759
Rockford, 1.3 mi. S. and 3.5 mi. E. from, near S¼ cor. sec. 29, T. 44 N., R. 2 E., in NW. angle of intersection of E-W. rd. and State rd. NW-SE., at six-way rd. fork, at base of metal signboard, on concrete; chiseled square-----	857.20
[Continued in Belvidere quadrangle, line 3]	
12. From point 1.5 miles north of Guilford Center School southwest along road to five-way road fork 1 mile south and 1.5 miles east from Loves Park (by S. L. Parker in 1917)	
[Continued from Belvidere quadrangle, line 10]	
Guilford Center School, 1.5 mi. N. and 0.5 mi. W. from, 0.5 mi. S. and 2.5 mi. E. from Loves Park, near center of sec. 9, T. 44 N., R. 2 E., 200 ft. W. of Marsh School, on N. side of rd., at fence line, in root on E. side of 20-in. elm tree; copper nail and washer-----	854.67
13. East along Illinois-Wisconsin State line on north side of fractional sections 20 and 21, T. 29 N., R. 11 E. (by S. R. Archer in 1932)	
[Continued from Pecatonica quadrangle, line 8]	
T. 29 N., R. 11 E., 0.15 mi. W. of N. cor. secs. 20 and 21, near S. cor. secs. 36 and 31, T. 1 N., Rs. 10 and 11 E. (Wis.), at W. end of lane along Illinois-Wisconsin State line, 0.8 mi. E. of Sugar River, on N. side of lane, 10 ft. W. of gate, in root 24 in. from trunk on SW. side of 30-in. elm tree; copper nail and washer <sup>11</sup> -----	745.81
[Continued in Wisconsin]	

<sup>9</sup> In 1932 this bench mark was tied to U. S. C. & G. S. standard disk stamped "N 6 1920," elevation 869.575 ft.

<sup>10</sup> In 1926 this bench mark was reset at an elevation 1.150 ft. lower than that originally determined. The figures given represent the new elevation.

<sup>11</sup> This bench mark is in Wisconsin.

# SAVANNA QUADRANGLE

[Latitude 42°00'–42°15'; longitude 90°00'–90°15']

## CARROLL AND JO DAVIESS COUNTIES

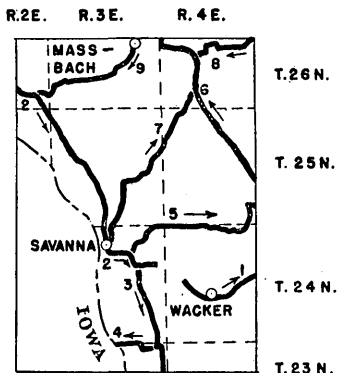


FIGURE 273.—Lines of leveling in Savanna quadrangle.

1. From point 1 mile northwest of Hickory Grove southeast and north-east along Chicago, Milwaukee, St. Paul & Pacific Railroad to point about 2.5 miles northeast of Wacker (by C. E. Walker in 1927)

Hickory Grove, 1.0 mi. NW of, 984 ft. N. of milepost 1, at barn on property of J. Fish, in E. side of stone foundation wall, 5 ft. S. of door, 3 ft. above ground; center mark of copper bolt leaded horizontally (U. S. C. E. B. M. 65)-----	<i><b>Feet</b></i> <b>673.539</b>
Hickory Grove, at sta., 450 ft. E. of rd. crossing, on S. side of track, on NE. corner of concrete base of semaphore tower; chiseled square-----	<b>698.43</b>
Wacker, at S. edge of, at R. R. trestle over rd., on NW corner of concrete wing wall, 8 ft. N. of N. rail; chiseled square-----	<b>720.13</b>
Wacker, 1.0 mi. in air line E. of, near center of sec. 22, T. 24 N., R. 4 E., in NW. angle of rd. crossing, 40 ft. N. of N. rail, in fence line, in concrete post; standard tablet stamped "29 WA 1927"-----	<b>795.167</b>
Reference mark, 60 ft. W. of crossing, on NE. corner of concrete base of semaphore tower; chiseled square-----	<b>790.86</b>

[Continued in Mount Carroll quadrangle, line 2]

2. From point 1.2 miles south and 3 miles east from Whitton along roads southeast to Savanna, thence alternately east and south to point on Chicago, Milwaukee, St. Paul & Pacific Railroad 2.5 miles east of Savanna (by S. R. Archer in 1934)

[Continued from Miles quadrangle, line 1]

Whitton, 1.5 mi. S. and 3.3 mi. E. from, 9.4 mi. NW. of post office in Savanna, 0.12 mi. NE. of center of sec. 35, T. 26 N., R. 2 E., 200 ft. SE. of junction of rd. E., on W. side of highway, on S. wall of angular head wall of flume down embankment; chiseled square-----	<b>642.05</b>
--	---------------

# 1640 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Savanna, 8.7 mi. NW. of, near center of SW $\frac{1}{4}$ sec. 36, T. 26 N., R. 2 E., in NE. angle of junction of rd. N., on E. head wall of concrete culvert; chiseled square-----	Feet 637.01
Savanna, 8.2 mi. NW. of, 0.25 mi. W. of SE. cor. sec. 36, T. 26 N., R. 2 E., 290 ft. S. of rd. junction, 25 ft. N. of Carroll-Jo Daviess county line, 50 ft. W. of highway, in concrete post; standard tablet stamped "T T Sta No 109 JLS 1927 635"-----	635.092
Savanna, 7.6 mi. NW. of, near quarter corner between secs. 1 and 6, T. 25 N., Rs. 2 and 3 E., in SW. angle of junction of rd. W. to Savanna Proving Ground, at fence corner, in 6- by 6-in. concrete post; bronze tablet marking right-of-way corner of Government reservation-----	640.92
Savanna, 6.7 mi. NW. of, 0.2 mi. N. of center of sec. 7, T. 25 N., R. 3 E., in SW. angle of junction of rd. W., on S. head wall of concrete culvert; chiseled square-----	629.12
Savanna, 5.8 mi. NW. of, 960 ft. S. of N. cor. secs. 17 and 13, T. 25 N., R. 3 E., 50 ft. S. and 20 ft. E. from junction of rd. S., in concrete post; standard tablet stamped "T T Sta No 110 JLS 1927 631"-----	631.155
Savanna, 5.1 mi. NW. of, in SE $\frac{1}{4}$ sec. 17, T. 25 N., R. 3 E., at concrete bridge over Rush Creek, at foot of W. end of N. side wall, on N. wing wall of W. abutment; chiseled square-----	602.74
Savanna, 4.8 mi. NW. of, in SE $\frac{1}{4}$ sec. 17, T. 25 N., R. 3 E., 0.25 mi. E. of concrete bridge over Rush Creek, 85 ft. SE. of rd. junction, on SE. end of NE. head wall of concrete culvert; chiseled square-----	599.73
Savanna, 4.0 mi. NW. of, 3.2 mi. NW. of Savanna-Sabula bridge over Mississippi River, 0.2 mi. NW. of schoolhouse, out from foot of first point of bluff below point on which Mississippi River Comm. triangulation sta. "Miller" is located, 300 ft. NW. of driveway to farmhouse on E. side of highway, on SE. end of NE. head wall of concrete culvert; chiseled square-----	606.97
Savanna, 3.3 mi. NW. of, 2.5 mi. NW. of Savanna-Sabula bridge, near quarter corner between secs. 21 and 28, T. 25 N., R. 3 E., on W. parapet of N. abutment of concrete bridge; chiseled square-----	599.45
Savanna, 3.3 mi. NW. of, 2.5 mi. NW. of Savanna-Sabula bridge, 1.8 mi. SE. of Marcus, 35 ft. N. of N. end of Chicago, Burlington & Quincy R. R. bridge 148.59, 33 ft. W. of center line of W. track, 5 ft. E. of W. right-of-way fence, on W. bank of small ditch; Mississippi River Comm. B. M. 332-333	
cap on iron pipe-----	593.283
bolt in tile-----	589.274
Savanna, 2.9 mi. N. of, 2.1 mi. N. of Savanna-Sabula bridge, 0.3 mi. N. of N. boundary of Palisades State Park, 700 ft. N. of C. B. & Q. R. R. milepost 148, 90 ft. E. of track, on E. side of highway, 40 ft. N. of point in line with N. side of service sta., 10 ft. N. of fence corner, in concrete post; standard tablet stamped "T T Sta No 111 JLS 1927 600"-----	600.149
Savanna, 2.0 mi. N. of, 1.2 mi. N. of Savanna-Sabula bridge, 0.6 mi. S. of main entrance to Palisades State Park, 45 ft. N. of rd. into park, at mouth of valley between Twin Sisters and Indian Head Rocks, on E. side of highway, on N. end of E. head wall of concrete culvert; chiseled square-----	596.76
Savanna, 1.3 mi. N. of, 0.5 mi. N. of Savanna-Sabula bridge, at entrance to Palisades State Park, at rd. to rock quarry, on E. side of highway, on S. end of concrete culvert under entrance; chiseled square--	604.30

Savanna, at N. edge of, at E. end of Savanna-Sabula bridge over Mississippi River, on N. end of N. circular concrete pier; chiseled square.	<i>Feet</i> 630.08
Savanna, 600 ft. S. of Savanna-Sabula bridge, 250 ft. S. of C. B. & Q. R. R. milepost 146, 130 ft. N. of N. end of R. R. culvert 145.93, 17 ft. E. of E. rail of E. track; Mississippi River Comm. B. M. 167/2	
cap on iron pipe-----	595.280
bolt in tile-----	591.270
Savanna, at NW. corner of intersection of Clay and Main Streets, 10 ft. SE. of SE. corner of residence of James Yates, 11 ft. N. of N. curb, 1 ft. W. of sidewalk, in concrete post, flush with ground; standard tablet stamped "T T Sta No 112 JLS 1927 600"-----	600.349
Savanna, at SW. corner of intersection of Third and Madison Streets, on N. side of NE. corner of post office, in stone water table; standard tablet stamped "1934 606"-----	606.320
Savanna, about 200 ft. above foot of Madison Street, on bank of Mississippi River, at S. end of old C. M. St. P. & P. R. R. elevator, now operated by John Kellogg, at engine room, at S. end of S. door on E. side, in doorsill; copper bolt leaded vertically (U. S. C. E. B. M. 62) <sup>12</sup> -----	591.757
Savanna, at SE. corner of intersection of Third Street and Chicago Avenue, 15 ft. S. of intersection of tangents of concrete curbs, 2 ft. N. of fireplug, on top of curb; chiseled square-----	600.80
Savanna, at SE. corner of intersection of Chicago Avenue and Pike Street, at junction of brick and concrete pavements, on NW. corner of concrete watering trough; chiseled square-----	620.35
Savanna, in SE. part of, in SW. angle of junction of State Highways 27 and 80, in front of Shell service sta., at E. end of concrete base of gasoline pumps, on top of triangular wheel guard; chiseled square.	635.98
Savanna, 0.4 mi. S. of junction of State Highways 27 and 80, near center of SW $\frac{1}{4}$ sec. 11, T. 24 N., R. 3 E., at E. side of overhead highway bridge over C. B. & Q. R. R., on S. side of driveway under bridge, 7 ft. NE. of E. end of southernmost of two timber bent supports, on N. side of main track; top of section of rail set vertically--	603.58
Savanna, 0.7 mi. S. of, 0.25 mi. W. of quarter corner between secs. 11 and 14, T. 24 N., R. 3 E., on W. side of highway, opposite rd. E., at NE. corner of cemetery, on S. concrete head wall of culvert under driveway W.; chiseled square-----	620.22
Savanna, about 2.5 mi. E. of Junction House, 164 ft. S. of main line of C. M. St. P. & P. R. R., at wagon bridge over Plum River, in W. end of N. stone abutment; top of copper bolt leaded vertically (U. S. C. E. B. M. 64)-----	593.424
3. From point 0.7 mile south of junction of State Highways 27 and 80 in Savanna generally south along roads to point 2.3 miles north of Thomson (by S. R. Archer in 1934)	
Savanna, 1.0 mi. S. of, 0.25 mi. N. of center of sec. 14, T. 24 N., R. 3 E., at bridge over Plum River, on E. parapet of N. concrete abutment; chiseled square-----	597.74
Savanna, 1.5 mi. S. of, 0.25 mi. S. of center of sec. 14, T. 24 N., R. 3 E., in NW. corner of junction of T-rd. W., on N. head wall of concrete culvert; chiseled square-----	591.27

<sup>12</sup> In 1934 it was reported that the elevator had been enlarged and that the bench mark was inside the building.

# 1642 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Savanna, 1.8 mi. S. of, near quarter corner between secs. 14 and 23, T. 24 N., R. 3 E., at angle SE. in Fulton highway, 58 ft. N. of R. R., 15 ft. N. of fence corner, in concrete post; standard tablet stamped "T T Sta No 113 JLS 1927 590"-----	<i>Feet</i> 589.569
Savanna, 3.0 mi. S. of, near W. cor. secs. 24 and 25, T. 24 N., R. 3 E., 280 ft. S. of crossroads, on E. side of highway, 6 in. underground, in W. side of 12-in. poplar tree; top of head of rail spike driven horizontally-----	610.32
Savanna, 3.7 mi. S. of, in SW¼ sec. 25, T. 24 N., R. 3 E., 0.25 mi. N. of crossroads, at NW. end of curve SE. in highway, on S. end of E. head wall of concrete culvert; chiseled square-----	609.31
Savanna, 4.6 mi. S. of, near center of sec. 36, T. 24 N., R. 3 E., at NW. corner of triangle at rd. junction, on E. side of highway, at fence corner, in root on NE. side of 10-in. locust tree; copper nail and washer-----	609.91
Savanna, 5.4 mi. S. of, 4.0 mi. N. of Thomson, 0.25 mi. S. of N¼ cor. sec. 1, T. 23 N., R. 3 E., 200 ft. W. of crossroads, 20 ft. S. of junction of old rd. N., in concrete post; standard tablet stamped "T T Sta No 114 JLS 1927 609"-----	609.257
Reference mark, 540 ft. N. of tablet, near NW. end of curve SE. in highway, on N. end of W. head wall of concrete culvert; chiseled square-----	606.63
Thomson, 3.0 mi. N. of, 0.25 mi. E. of N¼ cor. sec. 12, T. 23 N., R. 3 E., 30 ft. S. of crossroads, at E. edge of concrete pavement, in line with S. fence line of E.-W. rd., 60 ft. N. of highway sta. 349.99, 38 ft. S. of expansion joint, on E. edge of pavement; chiseled square-----	601.26
[Continued in Clinton quadrangle, line 5]	
4. From crossroads 4 miles north of Thomson west 1.9 miles to point about 0.5 mile east of Mississippi River (by S. R. Archer in 1934)	
Thomson, 4.0 mi. N. thence 0.9 mi. W. from, 0.25 mi. S. and 0.12 mi. E. from N¼ cor. sec. 2, T. 23 N., R. 3 E., in NE. angle of rd. junction, in root on E. side of 40-in. elm tree; copper nail and washer---	607.14
Thomson, about 4 mi. NW. of, near N. cor. secs. 2 and 3, T. 23 N., R. 3 E., about 1 mi. W. of Chicago, Burlington & Quincy R. R., 0.5 mi. from river bank, 853 ft. E. of E. bank of Big Lake Slough, 246 ft. S. of pumping sta., 115 ft. S. of levee, 240 ft. W. of rd. across levee to pumping sta., 135 ft. E. of fence corner, 3 ft. N. of fence along S. side of township-line rd.; Mississippi River Comm. B. M. 165/1	
cap on iron pipe-----	583.280
bolt in tile-----	579.270
5. From junction of State Highways 27 and 80 in Savanna north-east and east along roads to point 1.5 miles north and 1.1 miles west from Mount Carroll (by S. R. Archer in 1934)	
Savanna, 0.7 mi. NE. of highway junction, near E. side SW¼ sec. 2, T. 24 N., R. 3 E., at steel bridge over Plum River, on N. parapet of W. concrete abutment; chiseled square-----	607.30
Savanna, 1.3 mi. NE. of, 0.25 mi. N. of S. cor. secs. 1 and 2, T. 24 N., R. 3 E., in NE. corner of crossroads, on E. end of N head wall of concrete culvert; chiseled square-----	632.78

Savanna, 2.1 mi. NE. of, 0.2 mi. SW. of N $\frac{1}{4}$ cor. sec. 1, T. 24 N., R. 3 E., 0.12 mi. SW. of angle E. in rd., on E. parapet of N. abutment of concrete bridge; chiseled square-----	<i>Feet</i> 609.47
Savanna, 2.1 mi. NE. thence 0.7 mi. E. from, near NE. cor. sec. 1, T. 24 N., R. 3 E., 30 ft. S. and 27 ft. W. from junction of T-rd. S., 2 ft. W. of fence corner, in concrete post; standard tablet stamped "1934 639"-----	638.722
Savanna, 2.1 mi. NE. thence 1.6 mi. E. from, near NE. cor. sec. 6, T. 24 N., R. 4 E., 12 ft. SW. of SW. corner of bridge, on S. side of rd., in knot on N. side of trunk of large willow tree; copper nail and washer-----	618.12
Savanna, 2.1 mi. NE. thence 2.1 mi. E. from, near center of NW $\frac{1}{4}$ sec. 5, T. 24 N., R. 4 E., 185 ft. W. of top of hill and driveway to farmhouse on N. side of rd., on SW. side of rd., 40 ft. NW. of angle, in root on SE. side of 12-in. oak tree; copper nail and washer-----	735.52
Savanna, 2.1 mi. NE. thence 2.7 mi. E. from, 0.15 mi. S. of N. cor. secs. 4 and 5, T. 24 N., R. 4 E., 120 ft. W. of rd. junction, on W. side of Carroll Creek, on S. side of rd., at fence line, in root on SE. side of 40-in. maple tree; copper nail and washer-----	613.94
Savanna, 2.1 mi. NE. thence 2.9 mi. E. from, in NW. part of NW $\frac{1}{4}$ sec. 4, T. 24 N., R. 4 E., in NW. angle of junction of rd. N., 60 ft. E. of junction of private rd. S., in root on S. side of 40-in. elm tree; copper nail and washer-----	620.80
Savanna, 2.1 mi. NE. thence 3.9 mi. E. from, in SW. part of NW $\frac{1}{4}$ sec. 3, T. 24 N., R. 4 E., at NW. circular pier of bridge over Carroll Creek, at foot of N. end of W. steel truss, on outside of truss, on top of northernmost rivet head of guard for expansion plate; chiseled cross-----	642.30
Savanna, 2.1 mi. NE. thence 4.2 mi. E. from, 0.3 mi. N. and 2.7 mi. W. from Carroll County courthouse at Mount Carroll, near center of NW $\frac{1}{4}$ sec. 3, T. 24 N., R. 4 E., 35 ft. S. and 27 ft. W. from junction of rd. S., 20 ft. S. of intersection of fence lines, 6 ft. N. and 7 ft. E. from well under windmill, in concrete post; standard tablet stamped "1934 645"-----	644.882
Mount Carroll, 0.2 mi. N. and 2.5 mi. W. from, 0.15 mi. N. of center of sec. 3, T. 24 N., R. 4 E., 130 ft. E. of junction of rd. N., on S. side of rd., in root on N. side of 48-in. tree, westernmost of two large elm trees; copper nail and washer-----	653.48
Mount Carroll, 0.5 mi. N. and 1.5 mi. W. from, near N $\frac{1}{4}$ cor. sec. 2, T. 24 N., R. 4 E., 65 ft. E. of junction of rd. S., on S. side of rd., in root 2 ft. from trunk on N. side of 12-in. hickory tree; copper nail and washer---	826.26
Mount Carroll, 0.7 mi. N. and 1.3 mi. W. from, 0.25 mi. S. and 0.2 mi. E. from center of sec. 35, T. 25 N., R. 4 E., 90 ft. N. of junction of rd. SE., on W. side of rd., at yard fence, 10 ft. S. of small gate, in root on NE. side of 10-in. catalpa tree; copper nail and washer-----	839.40
Mount Carroll, 1.5 mi. N. and 1.5 mi. W. from, at Woodland School, near N $\frac{1}{4}$ cor. sec. 35, T. 25 N., R. 4 E., 25 ft. S. and 75 ft. E. from rd. junction, in NW. corner of schoolyard, in concrete post; standard tablet stamped "T T Sta No 117 JLS 1927 873"-----	872.764

[Connects with line 6 in Mount Carroll quadrangle]

# 1644 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

6. From point 3.4 miles northwest of Mount Carroll generally north-west along roads to point 0.2 mile north and 1.2 miles east from Massbach (by S. R. Archer in 1934)

[Continued from Mount Carroll quadrangle, line 6]

Mount Carroll, 3.3 mi. N. and 1.4 mi. W. from, in W. part of NE¼ sec. 23, T. 25 N., R. 4 E., 25 ft. N. and 28 ft. W. from junction of rd. W., 3 ft. W. of fence corner, in concrete post; standard tablet stamped "858"-----	Feet 857.717
Reference mark, 60 ft. N. of tablet, 100 ft. N. of rd. junction, on W. side of rd., on E. side of fence, in root on W. side of 12-in. oak tree; copper nail and washer-----	856.11
T. 25 N., R. 4 E., 0.25 mi. W. of center of sec. 14, 55 ft. S. of junction of private rd. W., on E. side of rd., in root on NW. side of 15-in. oak tree; copper nail and washer-----	809.22
T. 25 N., R. 4 E., 0.25 mi. S. of center of sec. 10, at bridge over Plum River, on NW. end of NE. stone abutment; chiseled square-----	627.17
T. 25 N., R. 4 E., 0.25 mi. W. of center of sec. 10, 75 ft. SE. of junction of rd. SW., on NE. side of rd., at NW. corner of yard of Palsgrove School, on S. side of quarter-section-line fence, at fence corner, in concrete post; standard tablet stamped "640"-----	640.173
Reference mark, on NE. side of rd., 3 ft. SE. of S. corner of schoolhouse, 5 ft. NE. of pump, on E. corner of concrete porch; chiseled square-----	635.60
T. 25 N., R. 4 E., near S¼ cor. sec. 4, 180 ft. SE. of angle N. in rd., on NE. side of rd., 80 ft. NW. of front of farmhouse on N. side of rd., 15 ft. NW. of W. corner of yard, in root on S. side of 30-in. walnut tree; copper nail and washer-----	833.37
T. 25 N., R. 4 E., 0.25 mi. E. of NW. cor. sec. 4, 60 ft. SE. of intersection of rd. and Carroll-Jo Daviess county line, on E. side of rd., at fence line, in root on W. side of 24-in. walnut tree; copper nail and washer-----	898.90
T. 26 N., R. 4 E., 0.15 mi. N. of center of NE¼ sec. 32, 10.7 mi. NE. of Savanna, at junction of rd. SW., on E. side of rd., at fence line, in root on W. side of 24-in. wild-cherry tree; copper nail and washer-----	930.53
T. 26 N., R. 4 E., in SE¼ sec. 29, in SE. angle of junction of rd. SE., in field, in root on N. side of 24-in. oak tree; copper nail and washer-----	940.91
T. 26 N., R. 4 E., 0.25 mi. W. of E. cor. secs. 20 and 29, 1.4 mi. S. and 3.0 mi. E. from Massbach, 25 ft. N. and 25 ft. W. from junction of rd. W., 4 ft. N. of fence corner, in concrete post; standard tablet stamped "933"-----	932.772
Reference mark, 25 ft. S. and 20 ft. E. from rd. junction, in root on NE. side of 24-in. walnut tree; copper nail and washer-----	931.82
Massbach, 0.6 mi. S. and 3.0 mi. E. from, in E. part of NE¼ sec. 20, T. 26 N., R. 4 E., 85 ft. N. of crossroads, on E. side of rd., at fence line, in root on W. side of 24-in. wild-cherry tree; copper nail and washer (recovered in 1935)-----	952.73
Massbach, 0.4 mi. S. and 2.4 mi. E. from, 0.16 mi. E. of W. cor. secs. 17 and 20, T. 26 N., R. 4 E., on E. end of S. head wall of concrete culvert; chiseled square-----	934.54
Massbach, 0.4 mi. S. and 1.5 mi. E. from, 0.25 mi. W. of S¼ cor. sec. 18, T. 26 N., R. 4 E., at W. end of concrete culvert over Camp Creek, on W. end of S. wing and retaining wall; chiseled square-----	776.18

Massbach, 0.4 mi. S. and 1.2 mi. E. from, at Camp Creek School, near SE. cor. sec. 13, T. 26 N., R. 3 E., 60 ft. W. of junction of T-rd. W., on N. side of rd., in SE. corner of schoolyard, 81 ft. SE. of SE. corner of schoolhouse, 52 ft. SW. of 24-in. oak tree; standard iron post with bronze cap stamped "Prim Trav Sta No 20 1906 824"-----	<i>Feet</i> 823.628
Reference mark, 90 ft. NW. of iron post, on S. side of schoolhouse, near SW. corner, on NE. corner of concrete step; chiseled square-----	827.39

[Connects with line 3 in Elizabeth quadrangle]

7. From intersection of Clay and Main Streets in Savanna north-east along roads 10.7 miles (by S. R. Archer in 1934)

Savanna, 0.7 mi. N. of, 67 ft. E. of W $\frac{1}{4}$ cor. sec. 3, T. 24 N., R. 3 E., 352 ft. NW. of junction of private rd. E., 600 ft. SE. of angle NE. in rd., at highest point on bluff rd., on SW. side of rd., in root on W. side of 15-in. oak tree; copper nail and washer <sup>13</sup> -----	857.74
Savanna, 1.5 mi. N. of, 0.25 mi. S. of center of sec. 34, T. 25 N., R. 3 E., 200 ft. NE. of rd. junction, on W. side of rd., at angle N., at fence line, in root on S. side of 30-in elm tree; copper nail and washer-----	861.44
Savanna, 2.8 mi. N. of, 0.25 mi. E. of center of sec. 27, T. 25 N., R. 3 E., 0.25 mi. N. of farmhouse of Leo Hebling, 40 ft. S. and 40 ft. E. from junction of rd. E., in concrete post; standard tablet stamped "T T Sta No. 115 JLS 1927 875" <sup>14</sup> -----	871.704
Savanna, 3.7 mi. N. of, near center of SE $\frac{1}{4}$ sec. 22, T. 25 N., R. 3 E., 160 ft. N. of rd. fork, on W. side of rd., in root on NW. side of 25-in. oak tree; copper nail and washer-----	857.01
Savanna, 4.6 mi. NE. of, 0.12 mi. E. of center of sec. 23, T. 25 N., R. 3 E., at S. concrete abutment of bridge over Camp Creek, 8 ft. SE. of S. end of E. steel truss, on E. wing and retaining wall, 10 ft. NW. of SE. end; chiseled square-----	627.99
Savanna 4.9 mi. NE. of, near center of NE $\frac{1}{4}$ sec. 23, T 25 N., R. 3 E., on N. side of rd., on W. side of private rd. N., at W. side of entrance to schoolhouse, on NW. corner of concrete porch; chiseled square-----	637.06
Savanna, 6.0 mi. NE. of, 0.12 mi. SW. of center of sec. 13, T. 25 N., R. 3 E., on S. side of rd., opposite rd. NW., at fence line, 10 ft. E. of telephone pole, 5 ft. E. of 15-in. white-oak tree, in concrete post; standard tablet stamped "Reset 1939" <sup>15</sup> -----	825.325
Savanna, 6.9 mi. NE. of, 0.1 mi. S. of cor. secs. 7, 12, 13, and 18, T. 25 N., Rs. 3 and 4 E., 580 ft. SW. of junction of rd. E., on NW. side of rd., at SE. corner of yard of farmhouse, in root on SE. side of 40-in. oak tree; copper nail and washer-----	867.47
Savanna, 8.1 mi. NE. of, 0.2 mi. S. of Zion Church, near quarter corner between secs. 6 and 7, T. 25 N., R. 4 E., 120 ft. S. of rd. junction, on W. side of rd., in root on E. side of 48-in. oak tree; copper nail and washer-----	903.08

<sup>13</sup> Established in 1941 to replace temporary bench mark 100 ft. southeast of this position.

<sup>14</sup> In 1937 this bench mark was moved 16 ft. east of this position and reset at an elevation 2.973 ft. lower than that originally determined. The figures given represent the new elevation.

<sup>15</sup> In 1939 this bench mark was moved to a point 83 ft. north of improved State road, on east side of road northwest, 28 ft. N.88°W. from 18-inch double white oak tree, and reset at an elevation 4.007 ft. higher than that originally determined. The figures given represent the new elevation.

# 1646 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Savanna, 8.7 mi. NE. of, 0.12 mi. E. of center of sec. 6, T. 25 N., R. 4 E.,  
in NW. angle of rd. junction, in top of NE. concrete head wall of cul-  
vert under rd. W.; standard tablet stamped "900"----- Feet  
900.134

Savanna, 9.4 mi. NE. of, 0.1 mi. N. of center of NW¼ sec. 5, T. 25 N.,  
R. 4 E., 0.15 mi. S. of Carroll-Jo Daviess county line, 160 ft. N. of  
right-angle turn N. in rd., on S. end of E. head wall of concrete cul-  
vert; chiseled square----- 888.65

8. From point 4 miles south and 1 mile west from Morseville gener-  
ally southwest along roads to road junction 0.6 mile south and  
3 miles east from Massbach (by S. R. Archer in 1935)

[Continued from Lena quadrangle, line 6]

Morseville, 4.3 mi. S. and 1.3 mi. W. from, in SW. part of SE¼ sec. 14,  
T. 26 N., R. 4 E., 170 ft. NE. of junction of rd. SE., on NE. end of  
SE. head wall of concrete culvert under rd. NE.; chiseled square----- 704.36

T. 26 N., R. 4 E., in SE¼ sec. 15, 0.1 mi. E. of jog S. in rd., on W. end  
of N. head wall of concrete culvert; chiseled square----- 700.45

T. 26 N., R. 4 E., 0.12 mi. E. of W. cor. secs. 15 and 22, 25 ft. S. and  
105 ft. E. from rd. junction, 2 ft. S. of highway right-of-way concrete  
post, 10 ft. N. of telephone pole, in concrete post; standard tablet  
stamped "673"----- 673.166

Reference mark, in NE. corner of rd. junction, on N. head wall of con-  
crete culvert under rd. E.; chiseled square----- 674.61

T. 26 N., R. 4 E., in E. part of SE¼ sec. 16, 725 ft. W. of junction of  
State highway and rd. W., at concrete bridge over West Branch of  
Plum River; chiseled square----- 681.81

T. 26 N., R. 4 E., 0.25 mi. N. of center of sec. 21, 0.6 mi. S. and 3.7 mi.  
E. from Massbach, 150 ft. E. of rd. junction, 80 ft. N. of right-angle  
turn in rd., on S. side of rd., in root on N. side of 10-in. hickory tree;  
copper nail and washer----- 911.68

9. From point 0.2 mile northeast of Massbach southwest and west  
along roads to road junction 9.4 miles northwest of Savanna  
(by S. R. Archer in 1935)

[Continued from Elizabeth quadrangle, line 5]

Massbach, at SE. corner of store, on W. side of highway, on SW. corner  
of concrete porch floor; chiseled square----- 951.56

Massbach, 1.1 mi. SW. of, in SW¼ sec. 23, T. 26 N., R. 3 E., in E.  
corner of junction of rd. SE., at fence corner, in center of large  
triangular blaze on SW. side of trunk of 30-in. oak tree; copper nail  
and washer----- 938.58

Massbach, 2.3 mi. SW. of, 0.25 mi. N. of center of sec. 27, T. 26 N.,  
R. 3 E., 35 ft. S. of crossroads, on W. side of rd., 13 ft. S. of fence  
corner, 4 ft. S. of telephone pole, in concrete post; standard tablet  
stamped "962"----- 962.173

T. 26 N., R. 3 E., near center of sec. 28, 175 ft. W. of T-rd. S., on S. side  
of rd., at fence line, in root on S. side of 8-in. wild-cherry tree;  
copper nail and washer----- 963.03

T. 26 N., R. 3 E., near quarter corner between secs. 28 and 29, on S. side  
of rd., at junction of T-rd. N., at E. entrance to schoolhouse, at foot  
of concrete steps, on N. end of first step above landing; chiseled  
square----- 938.45

T. 26 N., R. 3 E., near line between secs. 29 and 30, 100 ft. from top of bluff, 50 ft. W. of fence lines N. and S., on S. side of rd., in root on W. side of 25-in. tree, easternmost of two oak trees 30 ft. apart; copper nail and washer-----	<i>Feet</i> 878.38
T. 26 N., R. 3 E., 0.25 mi. S. of center of sec. 30, on S. side of rd., at junction of T-rd. N., inside fence, 8 ft. E. of two small walnut trees, in concrete post; standard tablet stamped "628"-----	627.468
T. 26 N., R. 2 E., near E. cor. secs. 25 and 36, 75 ft. W. of junction of T-rd. W., on N. side of rd., at fence line, in root on N. side of 36-in. elm tree; copper nail and washer-----	634.00
T. 26 N., R. 2 E., 0.15 mi. E. of center of NW¼ sec. 36, 9.4 mi. NW. thence 0.9 mi. E. from Savanna, 0.15 mi. E. of crossroads, on S. side of rd., at fence line, in root on S. side of 12-in. oak tree; copper nail and washer-----	636.68

# SOUTH WAYNE QUADRANGLE

[Latitude 42°30'—42°45'; longitude 89°45'—90°00']

JO DAVIESS AND STEPHENSON COUNTIES

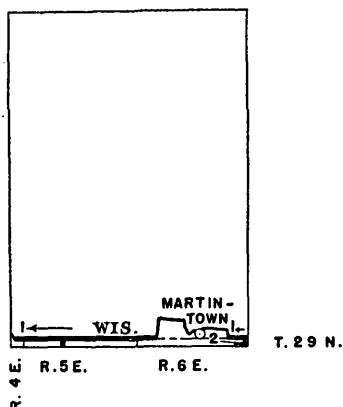


FIGURE 274.—Lines of leveling in South Wayne quadrangle.

1. From point 0.2 mile south and 2.6 miles east from Martintown, Wis., along roads generally west to point 0.9 mile north and 0.7 mile west from Warren (by R. G. Clinite in 1919)<sup>16</sup>

[Continued from Monroe quadrangle, line 2]

Martintown, 220 ft. SE. of Illinois Central R. R. sta., 70 ft. E. of track; standard iron post with bronze cap stamped "1919 Wis 776" (recovered by U. S. C. & G. S. in 1920)-----	<i>Feet</i> 777.426
Martintown, 1.6 mi. NW. thence 1.5 mi. W. from, near S¼ cor. sec. 25, T. 1 N., R. 5 E., in NW. angle of crossroads, on top of concrete wall of bridge; chiseled square-----	865.74
Martintown, 0.2 mi. S. and 3.9 mi. W. from, 0.7 mi. N. and 5.6 mi. E. from Warren, 20 ft. S. and 40 ft. W. from N¼ cor. fractional sec. 13, T. 29 N., R. 5 E., in SW. angle of crossroads, 20 ft. S. of Illinois-Wisconsin State line; standard iron pipe with bronze cap stamped "Prim Trav Sta No 22 1911 933"-----	933.963
Warren, 0.7 mi. N. and 3.1 mi. E. from, near S¼ cor. sec. 32, T. 1 N., R. 5 E., in NW. angle of offset crossroads, on head wall of small concrete bridge; chiseled square-----	900.68
Warren, 0.7 mi. N. and 2.1 mi. E. from, near S¼ cor. sec. 31, T. 1 N., R. 5 E., in NE. angle of offset crossroads; standard iron post with bronze cap stamped "1910 Wis 044" (recovered in 1935)-----	911.700
Warren, 0.9 mi. N. and 0.7 mi. W. from, in SE¼ sec. 34, T. 1 N., R. 4 E., 110 ft. N. and 25 ft. W. from Chicago, Milwaukee, St. Paul & Pacific R. R. crossing, in root of 26-in. cottonwood tree; copper nail and washer-----	1,034.89

[Connects with line 1 in Darlington quadrangle]

<sup>16</sup> All marks described in this line are in Wisconsin with the exception of the bench mark stamped "Prim Trav Sta No 22 1911 933."

2. From point 1.9 miles northeast of Winslow along roads northeast 0.2 mile, thence north 0.2 mile (by W. M. Hay and W. J. Drath in 1934)

[Continued from Lena quadrangle, line 2]

Winslow, 2.1 mi. NE. of, 0.12 mi. SW. of NE. cor. sec. 24, T. 29 N., R. 6 E., 520 ft. SW. of range line crossing highway, on E. corner of NE. end of SE. head wall of concrete culvert; chiseled square-----	Feet 807.69
Winslow, 2.1 mi. NE. thence 0.2 mi. N. from, 0.2 mi. S. and 2.5 mi. E. from Martintown, Wis., 200 ft. W. of NE. cor. fractional sec. 13, T. 29 N., R. 6 E., on SE. corner of S. head wall of concrete culvert under Illinois-Wisconsin State-line rd.; chiseled square-----	868.64

[Continued in Monroe quadrangle, line 3]

# SYCAMORE QUADRANGLE

[Latitude 41°45'–42°00' ; longitude 88°30'–88°45']

## DE KALB AND KANE COUNTIES

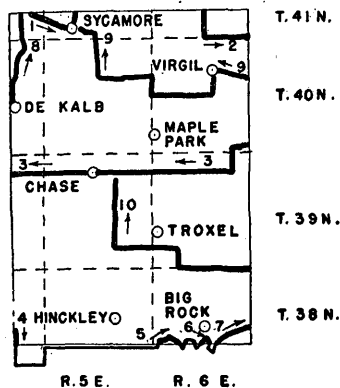


FIGURE 275.—Lines of leveling in Sycamore quadrangle.

1. From point 0.7 mile north and 2.4 miles west from Sycamore southeast along State Highway 64 to Sycamore, thence north-east 0.8 mile along State Highway 23 (by S. R. Archer in 1923)

[A jog from Genoa quadrangle, line 4]

Sycamore, 2.1 mi. NW. of, 1.0 mi. SE. of Five Points, 0.15 mi. NE. of S¼ cor. sec. 25, T. 41 N., R. 4 E., at highway bridge over South Branch of Kishwaukee River, on S. wing wall of E abutment; chiseled square.....	Feet 827.96
Sycamore, 1.0 mi. NW. of, near center of NE¼ sec. 31, T. 41 N., R. 5 E., on SW. side of highway, 20 ft. W. of NE. corner of Mount Carmel Cemetery, in root on N. side of 30-in. maple tree; copper nail and washer.....	845.98
Sycamore, in NW. corner of intersection of State and Main Streets, 18 ft. N. of SE. corner of grounds of De Kalb County courthouse, 13 ft. N. of hydrant, 2 ft. S. of sidewalk, in concrete post; standard tablet stamped "37 A 1923" (recovered by U. S. C. & G. S. in 1935).....	877.269
Reference mark, in SW. corner of intersection of North Main and Exchange Streets, near NE. corner of grounds of courthouse, on curb; chiseled square.....	872.43
Sycamore, in SE. corner of intersection of State and Main Streets, at main entrance to post-office building, at NW. corner of alcove, at base on W. side of E. stone column; standard tablet stamped "38 A 1923" (recovered by U. S. C. & G. S. in 1935).....	880.070
Sycamore, 0.7 mi. NE. of, near center of SE¼ sec. 29, T. 41 N., R. 5 E., in SE. angle of junction of rd. SE., on S. head wall of concrete culvert; chiseled square.....	832.92

[Continued in Genoa quadrangle, line 4]

2. From point 3.5 miles south of Burlington south along road 1.2 miles to crossroads, thence east 2.4 miles along township-line road to point 1.7 miles north and 2 miles east from Virgil (by S. R. Archer in 1923)

[Continued from Genoa quadrangle, line 4]

Burlington, 4.1 mi. S. of, 0.5 mi. W. thence 2.3 mi. N. from Virgil, 0.13 mi. N. of E $\frac{1}{4}$ cor. sec. 33, T. 41 N., R. 6 E., about 600 ft. N. of bridge over drainage ditch, 25 ft. N. of fence line E., on W. side of rd., at fence, in base on W. side of 12-in. willow tree; copper nail and washer-----	Feet 870.78
Virgil, 0.5 mi. W. thence 1.7 mi. N. from, near NE. cor. sec. 4, T. 40 N., R. 6 E., 30 ft. S. and 15 ft. W. from junction of T-rd. N., 45 ft. W. of fence line S., in concrete post; aluminum tablet stamped "Prim Trav Sta No 22 W 1921 A 41" <sup>17</sup> -----	870.521
Reference mark, 80 ft. N. and 30 ft. W. from rd. junction, 50 ft. N. of fence corner, in field, in root on E. side of 24-in. oak tree; copper nail and washer-----	871.68
Virgil, 1.7 mi. N. and 0.4 mi. W. from, 0.1 mi. E. of NW. cor. sec. 3, T. 40 N., R. 6 E., at SE. corner of bridge over Virgil Ditch No. 3, on W. end of S. wing wall of E. concrete abutment, 1 ft. above bridge seat; chiseled square-----	870.28
Virgil, 1.7 mi. N. and 0.5 mi. E. from, near NE. cor. sec. 3, T. 40 N., R. 6 E., 40 ft. S. of junction of T-rd. S., on W. head wall of concrete culvert; chiseled square-----	877.96
Virgil, 1.7 mi. N. and 1.5 mi. E. from, near NW. cor. sec. 1, T. 40 N., R. 6 E., 35 ft. S. and 35 ft. E. from junction of T-rd. N., in field, 5 ft. S. and 8 ft. E. from fence corner, in root on N. side of 8-in. hickory tree; copper nail and washer-----	916.05

[Continued in Geneva quadrangle, line 12]

3. From point 0.6 mile north and 1.5 miles west from Elburn along roads west and south to road junction at quarter corner between secs. 2 and 11, T. 39 N., R. 6 E., thence west to point 3.5 miles south of De Kalb (by G. F. Williams in 1923)

[Continued in Geneva quadrangle, line 12]

Elburn, 0.5 mi. N. and 1.6 mi. W. from, near center of SW $\frac{1}{4}$ sec. 36, T. 40 N., R. 6 E., on S. side of U. S. Highway 30, 25 ft. S. and 15 ft. W. from junction of rd. N., at concrete culvert under driveway of lane S., on top near center of E. head wall; chiseled square-----	884.82
T. 40 N., R. 6 E., 0.25 mi. N. of S $\frac{1}{4}$ cor. sec. 35, near Moore School, 20 ft. N. and 20 ft. E. from intersection of U. S. Highway 30 and N.-S. rd.; standard iron post with bronze cap stamped "Prim Trav Sta No 24 W 1921 W 15"-----	887.040
Reference mark, 60 ft. S. and 40 ft. E. from intersection, in NW. corner of schoolyard, 35 ft. S. of fence corner, in root on NW. side of 18-in. maple tree; copper nail and washer-----	887.57
T. 39 N., R. 6 E., near S $\frac{1}{4}$ cor. sec. 2, in NW. angle of junction of T-rd. N., on N. end of W. head wall of concrete culvert under N.-S. rd.; chiseled square-----	842.44
T. 39 N., R. 6 E., near NE. cor. sec. 10, in SW. angle of junction of T-rd. S., on SW. corner of W. head wall of concrete culvert under N.-S. rd.; chiseled square-----	840.38

<sup>17</sup> In 1929 this bench mark was reported destroyed.

# 1652 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

T. 39 N., R. 6 E., 0.22 mi. E. of SW. cor. sec. 3, on N. side of rd., 80 ft. E. of SW. corner of yard fence of dwelling, 30 ft. E. of gate to driveway, 2 ft. N. of fence, in root on S. side of 18-in. maple tree; copper nail and washer-----	<i>Feet</i> 846.05
T. 39 N., R. 6 E., 0.25 mi. E. of NW. cor. sec. 9, 30 ft. S. and 60 ft. E. from crossroads, 30 ft. E. of fence corner; standard iron post with bronze cap stamped "16 W 1923"-----	869.481
Reference mark, 420 ft. W. of crossroads, on E. end of N. head wall of concrete culvert; chiseled square-----	851.24
T. 39 N., R. 6 E., near NW. cor. sec. 8, 240 ft. E. of crossroads, on S. side of rd., in root on N. side of 8-in. hedge tree; copper nail and washer-----	843.24
T. 39 N., R. 5 E., near SE. cor. sec. 1, 2.0 mi. S. of Maple Park, at De Kalb-Kane county line, in NW. angle of offset crossroads, 30 ft. N. of junction of rd. E., 65 ft. N. of junction of rd. W., on W. side of county-line rd., in root on N. side of 12-in. willow tree; copper nail and washer-----	861.51
T. 39 N., R. 5 E., 0.13 mi. E. of S $\frac{1}{4}$ cor. sec. 2, 1.8 mi. E. of Chase, on top near center of N. head wall of concrete culvert; chiseled square-----	871.25
Chase, 1.2 mi. E. of, near SE. cor. sec. 3, T. 39 N., R. 5 E., in NW. angle of crossroads, 1 ft. N. of fence corner, in concrete post; standard tablet stamped "17 W 1923"-----	847.062
Reference mark, 35 ft. E. of crossroads, on end of NW. wing wall of N. abutment of concrete culvert; chiseled square-----	847.95
Chase, 0.2 mi. E. of, near SW. cor. sec. 3, T. 39 N., R. 5 E., in NE. angle of crossroads, 35 ft. E. of fence corner, on SW. side of 12-in. maple tree; copper nail and washer-----	861.23
Chase, 0.9 mi. W. of, 0.08 mi. W. of SE. cor. sec. 5, T. 39 N., R. 5 E., on N. side of rd., 170 ft. E. of driveway, in yard of dwelling, in root on SE. side of 10-in. maple tree; copper nail and washer----	885.60
Chase, 1.3 mi. W. of, near N $\frac{1}{4}$ cor. sec. 8, T. 39 N., R. 5 E., at Gormley School, in SE. angle of crossroads, in NW. corner of schoolyard, 20 ft. S. of fence, in root on W. side of 30-in. maple tree; copper nail and washer-----	879.44
Chase, 2.3 mi. W. of, 0.35 mi. E. of SW. cor. sec. 6, T. 39 N., R. 5 E., 40 ft. N. and 25 ft. W. from crossroads, 10 ft. N. of fence corner, in concrete post; standard tablet stamped "18 W 1923"-----	880.318
Reference mark, in SE. angle of crossroads, 30 ft. S. of fence corner, in root on E. side of forked wild-cherry tree; copper nail and washer-----	883.74
Chase, 3.6 mi. W. of, 3.5 mi. S. and 0.8 mi. E. from De Kalb, at Alsthor School, near SE. cor. sec. 2, T. 39 N., R. 4 E., 80 ft. N. and 60 ft. W. from crossroads, 10 ft. S. and 8 ft. W. from SE. corner of schoolhouse, on E. end of first step of entrance to schoolhouse; chiseled square-----	894.58

[Continued in De Kalb quadrangle, line 1]

4. From point 0.5 mile south and 1.2 miles east from Waterman east and south along roads to point 1.3 miles south and 1.3 miles east from Waterman (by G. F. Williams in 1923)

[Continued from De Kalb quadrangle, line 1]

Waterman, 0.6 mi. S. and 1.3 mi. E. from, 0.25 mi. E. and 0.08 mi. S. from NW. cor. sec. 23, T. 38 N., R. 4 E., 420 ft. S. of junction of T-rd. S., at Henderson Bridge, on NE. concrete wing wall of N. abutment; chiseled square----- Feet  
783.63

[Continued in Plano quadrangle, line 2]

5. From point 1.3 miles south and 2.3 miles east from Hinckley along roads northeast and southeast to point 0.9 mile south and 1.4 miles west from Big Rock (by G. F. Williams in 1923)

[A jog from Plano quadrangle, line 2]

Hinckley, 1.0 mi. S. and 3.0 mi. E. from, 0.5 mi. S. and 1.9 mi. W. from Big Rock, in SW $\frac{1}{4}$  sec. 20, T. 38 N., R. 6 E., in NW. angle of rd. junction, 1 ft. N. of fence corner, in concrete post; standard tablet stamped "25 W 1923"----- 721.636

Reference mark, on E. side of rd. junction, on S. end of E. head wall of concrete culvert under NW-SE. rd.; chiseled square----- 722.02

Big Rock, 0.7 mi. S. and 1.5 mi. W. from, 0.15 mi. N. of S $\frac{1}{4}$  cor. sec. 20, T. 38 N., R. 6 E., in S. angle of junction of rd. SW., 40 ft. SE. of fence corner, in root on NW. side of 3-in. wild-cherry tree; copper nail and washer----- 716.80

[Continued in Plano quadrangle, line 2]

6. Northeast and southeast along roads near Big Rock (by G. F. Williams in 1923)

[A jog from Plano quadrangle, line 2]

Big Rock, 0.5 mi. S. of, near W $\frac{1}{4}$  cor. sec. 22, T. 38 N., R. 6 E., on NE. side of rd., in line with rd. SW., 45 ft. N. of fence corner, in root on S. side of 15-in. oak tree; copper nail and washer----- 702.13

[Continued in Plano quadrangle, line 2]

7. From point 0.9 mile south and 0.6 mile east from Big Rock northeast along road to point 2.4 miles east of Big Rock (by G. F. Williams in 1923)

[Continued from Plano quadrangle, line 2]

Big Rock, 0.6 mi. S. and 0.8 mi. E. from, in SE $\frac{1}{4}$  sec. 22, T. 38 N., R. 6 E., on SE. side of rd., 50 ft. NE. of driveway, 15 ft. S. and 10 ft. W. from fence corner, at NE. corner of yard of dwelling, at end of E. row of pine trees, in root on E. side of 12-in. pine tree; copper nail and washer----- 701.36

Big Rock, about 2 mi. E. of, 0.25 mi. S. of NW. cor. sec. 24, T. 38 N., R. 6 E., in SE. corner of triangular plot of schoolyard, 60 ft. W. of rd. fork, 20 ft. N. of rd. SW., in second tree in S. row of four oak trees, in root on E. side of 12-in. oak tree; iron screw and copper washer----- 702.11

[Connects with line 7 in Geneva quadrangle]

8. From De Kalb northeast and north along roads to Chicago Great Western Railway station at Five Points (by G. F. Williams in 1923)

[Continued from De Kalb quadrangle, line 2]

De Kalb, in SW. corner of intersection of First Street and Lincoln Highway, at front entrance to post office, in top of E. side of SE. limestone lamp pedestal, about 3 ft. higher than walk; standard tablet stamped "28 W 1923" (recovered by U. S. C. & G. S. in 1935) -- 878.417

Reference mark, on S. side of Lincoln Highway at First Street, 10 ft. N. of center of sidewalk E., 5 ft. W. of center of sidewalk S., at NW. corner of base of street light pedestal, on curb; chiseled square	Feet 876.65
De Kalb, at De Kalb Township High School, 30 ft. N. and 30 ft. E. from center of intersection of De Kalb and Sycamore Avenues, at SW. corner of schoolyard, 1 ft. E. of 2- by 2-ft. brick gatepost, in concrete post; standard tablet stamped "29 W 1923" (recovered by U. S. C. & G. S. in 1935)	855.087
Reference mark, on S. side of Sycamore Avenue, 45 ft. W. of intersection of De Kalb Avenue, 15 ft. W. of sidewalk S., 15 ft. N. of sidewalk W., on curb; chiseled square	854.34
De Kalb, 1.4 mi. NE. of, near S $\frac{1}{4}$ cor. sec. 11, T. 40 N., R. 4 E., 270 ft. N. of junction of rd. W., on NW. side of rd., in root on NE. side of 30-in. boxelder tree; copper nail and washer	881.74
De Kalb, 2.3 mi. NE. of, near N $\frac{1}{4}$ cor. sec. 11, T. 40 N., R. 4 E., 240 ft. NE. of crossing of Chicago, Milwaukee, St. Paul & Pacific R. R., on S. end of NW. head wall of concrete culvert; chiseled square	852.92
De Kalb, 2.9 mi. NE. of, at Coltonville School, near E $\frac{1}{4}$ cor. sec. 2, T. 40 N., R. 4 E., in SW. angle of junction of rd. W., in NE. corner of schoolyard, in root on E. side of 15-in. maple tree; copper nail and washer	849.43
De Kalb, 3.0 mi. NE. of, 1.9 mi. S. of C. G. W. Ry. sta. at Five Points, 2.7 mi. SW. of Sycamore, 0.16 mi. NE. of Coltonville School, near W $\frac{1}{4}$ cor. sec. 1, T. 40 N., R. 4 E., 85 ft. NE. thence 50 ft. N. from junction of rd. N., 15 ft. E. of post at SE. end of gate in field fence, in concrete post; standard tablet stamped "30 W 1923"	850.422
Reference mark, 125 ft. N. and 30 ft. W. from junction of rd. N., in field, 10 ft. N. and 3 ft. W. from fence corner, in root on E. side of 12-in. maple tree; copper nail and washer	846.43
Five Points, 0.8 mi. S. of, 0.3 mi. NE. of center of sec. 35, T. 41 N., R. 4 E., 265 ft. S. of junction of rd. W., on W. side of rd., in root on SE. side of 36-in. elm tree; copper nail and washer	862.08
[Connects with line 4 in Genoa quadrangle]	
9. From point 2 miles southeast of Virgil along roads west and north to Sycamore (by J. F. Barksdale in 1923)	
[Continued from Geneva quadrangle, line 10]	
Virgil, 1.5 mi. SE. of, 1.7 mi. NW. of Lily Lake, near SE. cor. sec. 11, T. 40 N., R. 6 E., 150 ft. N. and 100 ft. W. from junction of rd. N., in root on S. side of forked boxelder tree; copper nail and washer	880.85
Virgil, 0.4 mi. E. of, 0.2 mi. N. of SE. cor. sec. 10, T. 40 N., R. 6 E., on S. wing wall of E. abutment of bridge over Virgil Ditch No. 2, 1 ft. S. of E. parapet; chiseled square	867.54
Virgil, 40 ft. W. of junction of T-rd. S., on N. side of E.-W. rd., on first step of concrete platform, in front of store, 6 in. E. of abutting section of platform; chiseled square	873.26
Virgil, 0.9 mi. S. of, 0.1 mi. S. of center of sec. 15, T. 40 N., R. 6 E., 40 ft. N. and 18 ft. E. from crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 23 W 1921 B 2"	873.448
Virgil, 1.3 mi. S. of, near S $\frac{1}{4}$ cor. sec. 15, T. 40 N., R. 6 E., 90 ft. N. and 35 ft. E. from junction of T-rd. W., 4 ft. E. of fence, in root on SW. side of 18-in. maple tree; copper nail and washer	878.39

Virgil, 1.3 mi. S. and 0.7 mi. W. from, 0.2 mi. W. of NE. cor. sec. 21, T. 40 N., R. 6 E., on S. side of rd., 140 ft. W. of driveway to dwelling, 1 ft. inside fence, in root on N. side of 24-in. poplar tree; copper nail and washer -----	Feet 868.72
T. 40 N., R. 6 E., 0.25 mi. W. of SE. cor. sec. 17, 50 ft. N. and 35 ft. E. from junction of T-rd. N., in concrete post; aluminum tablet stamped "3 B 1923" -----	875.537
Reference mark, 35 ft. S. and 30 ft. E. from rd. junction, 1 ft. inside fence, in root on W. side of 12-in. hickory tree; copper nail and washer -----	873.27
T. 40 N., R. 6 E., near SE. cor. sec. 18, 2.0 mi. N. and 1.0 mi. E. from Maple Park, on N. side of rd., 100 ft. W. of section line, 15 ft. N. of fence, in root on S. side of 12-in. hickory tree; copper nail and washer -----	860.68
Maple Park, 2.0 mi. N. of, near SE. cor. sec. 13, T. 40 N., R. 5 E., at De Kalb-Kane county line, 90 ft. N. and 35 ft. W. from junction of T-rd. E., 10 ft. E. of fence, in root on E. side of 36-in. maple tree; copper nail and washer -----	851.80
Maple Park, 3.0 mi. N. of, near NW. cor. sec. 18, T. 40 N., R. 6 E., 35 ft. S. and 30 ft. E. from crossroads, 1 ft. W. of N.-S. fence, in concrete post; standard tablet stamped "4 B 1923" <sup>18</sup> -----	867.866
Maple Park, 3.0 mi. N. of, near NW. cor. sec. 18, T. 40 N., R. 6 E., 90 ft. S. and 30 ft. E. from junction of T-rd. E., at fifth post from corner of fence, in concrete post; standard tablet stamped "4 B 1923" (as reset in 1934) -----	868.820
Reference mark 1, 970 ft. S. of tablet, 20 ft. W. of center line of rd., in root on E. side of 24-in. elm tree; copper nail and washer (established in 1934) -----	865.59
Reference mark 2, 1,020 ft. S. of tablet, 20 ft. W. of center line of rd., in root on N. side of 30-in. elm tree; copper nail and washer (established in 1934) -----	866.83
Maple Park, 3.0 mi. N. and 0.6 mi. W. from, 0.1 mi. W. of S $\frac{1}{4}$ cor. sec. 12, T. 40 N., R. 5 E., 20 ft. W. of junction of T-rd. N., on N. head wall of concrete culvert; chiseled square -----	852.54
Maple Park, 3.0 mi. N. and 1.0 mi. W. from, near NW. cor. sec. 13, T. 40 N., R. 5 E., 25 ft. S. and 35 ft. E. from junction of T-rd. S., 6 ft. E. of fence corner, 8 ft. N. of fence, in root on N. side of 20-in. oak tree; copper nail and washer -----	855.41
Maple Park, 3.0 mi. N. and 1.5 mi. W. from, near S $\frac{1}{4}$ cor. sec. 11, T. 40 N., R. 5 E., 25 ft. N. and 30 ft. W. from junction of rd. N., 35 ft. E. of SE. corner of barn, in root on S. side of 12-in. elm tree; copper nail and washer -----	856.79
Maple Park, 3.0 mi. N. and 2.8 mi. W. from, 2.7 mi. S. and 1.5 mi. E. from Sycamore, in NW $\frac{1}{4}$ sec. 15, T. 40 N., R. 5 E., 30 ft. N. and 35 ft. E. from crossroads, 8 ft. N. of fence corner, in concrete post; standard tablet stamped "5 B 1923" -----	857.598
Reference mark, 30 ft. S. and 150 ft. E. from crossroads, 120 ft. E. of fence corner, 3 ft. S. of fence, in root on N. side of 36-in. cottonwood tree; copper nail and washer -----	860.22

<sup>18</sup> In 1934 this bench mark was moved. See following description for new location and elevation.

# 1656 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Sycamore, 1.8 mi. S. and 1.5 mi. E. from, near NW. cor. sec. 10, T. 40 N., R. 5 E., 75 ft. S. and 30 ft. E. from crossroads, 50 ft. S. of fence corner, 1 ft. E. of fence, in root on NW. side of 18-in. wild-cherry tree; copper nail and washer-----	<i>Feet</i> 843.49
Sycamore, 1.3 mi. S. and 1.4 mi. E. from, 0.15 mi. SE. of W $\frac{1}{4}$ cor. sec. 3, T. 40 N., R. 5 E., 200 ft. N. and 40 ft. W. from junction of rd. E., 8 ft. W. of fence, in root on E. side of 12-in. wild-cherry tree; copper nail and washer-----	856.61
Sycamore, 1.1 mi. E. of, near center of SE $\frac{1}{4}$ sec. 33, T. 41 N., R. 5 E., 0.3 mi. W. of junction of T-rd. S., 1 ft. W. of E. end of S. head wall of concrete culvert under highway; chiseled square-----	835.11
10. From point on township-line road 1.9 miles south and 1.1 miles east from Kaneville along roads alternately west and north to road junction 1.2 miles east of Chase (by J. F. Barksdale in 1923)	
[Continued from Geneva quadrangle, line 11]	
Kaneville, 1.9 mi. S. and 0.8 mi. E. from, 0.1 mi. E. of NW. cor. sec. 1, T. 38 N., R. 6 E., on top near center of S. head wall of concrete culvert; chiseled square-----	736.10
Kaneville, 1.9 mi. S. and 0.3 mi. W. from, near White School, 20 ft. S. and 74 ft. W. from N. cor. secs. 2 and 3, T. 38 N., R. 6 E., in SW. angle of crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No 26 W 1921 B 6 1923"-----	757.134
Reference mark, in NE. angle of crossroads, 50 ft. N. of SE corner of schoolyard, in root on W. side of 24-in. Osage-orange tree; copper nail and washer-----	757.80
Kaneville, 1.9 mi. S. and 1.3 mi. W. from, near NW. cor. sec. 3, T. 38 N., R. 6 E., 25 ft. S. and 35 ft. E. from junction of T-rd. S., 10 ft. N. of fence corner, in root on N. side of 40-in. willow tree; copper nail and washer-----	746.13
Kaneville, 1.9 mi. S. and 2.3 mi. W. from, near SE. cor. sec. 32, T. 39 N., R. 6 E., on N. side of rd., 200 ft. W. of dwelling, near W. end of top of head wall of concrete culvert; chiseled square-----	759.11
Kaneville, 1.9 mi. S. and 2.8 mi. W. from, 1.9 mi. S. and 1.0 mi. E. from Troxel, near S $\frac{1}{4}$ corner sec. 32, T. 39 N., R. 6 E., 30 ft. N. and 50 ft. E. from crossroads, 5 ft. E. of fence corner, in concrete post; standard tablet stamped "7 B 1923"-----	771.358
Reference mark, 30 ft. S. and 330 ft. E. from crossroads, 1 ft. S. of fence, in root on W. side of 48-in. cottonwood tree; copper nail and washer-----	770.87
Troxel, 0.9 mi. S. and 1.0 mi. E. from, near S $\frac{1}{4}$ cor. sec. 29, T. 39 N., R. 6 E., 35 ft. N. and 65 ft. W. from junction of rd. S., 50 ft. W. of driveway, 2 ft. inside fence, at second tree W. of driveway, in root on W. side of 30-in. cottonwood tree; copper nail and washer-----	779.94
Troxel, 0.9 mi. S. and 0.1 E. from, near N $\frac{1}{4}$ cor. sec. 31, T. 39 N., R. 6 E., 640 ft. E. of junction of T-rd. N., 200 ft. W. of driveway to dwelling, 1 ft. inside fence, in root on NE. side of 36-in. maple tree; copper nail and washer-----	770.64
Troxel, 0.9 mi. S. and 0.3 mi. W. from, near SW. cor. sec. 30, T. 39 N., R. 6 E., 35 ft. N. and 90 ft. E. from junction of range-line rd. S., at De Kalb-Kane county line, 50 ft. E. of lane to dwelling, in concrete post; standard tablet stamped "8 B 1923"-----	775.655

Reference mark, 35 ft. S. and 60 ft. E. from rd. junction, on SE. corner of concrete platform of creamery; chiseled square-----	<i>Feet</i> 775.84
Troxel, 0.9 mi. S. and 1.3 mi. W. from, near NE. cor. sec. 35, T. 39 N., R. 5 E., 30 ft. S. and 35 ft. W. from crossroads, in yard of dwelling, in root on N side of 24-in. maple tree; copper nail and washer--	799.25
Troxel, 0.9 mi. S. and 2.3 mi. W. from, 3.5 mi. N. of Hinckley, near SW. cor. sec. 26, T. 39 N., R. 5 E., 30 ft. N. and 350 ft. E. from crossroads, 1 ft. N. of fence, in root on S. side of 24-in. willow tree; copper nail and washer-----	780.47
Troxel, 2.3 mi. W. of, 1.2 mi. E. thence 3.0 mi. S. from Chase, near NW. cor. sec. 26, T. 39 N., R. 5 E., 35 ft. S. and 30 ft. E. from crossroads, 8 ft. S. of fence corner, in concrete post; standard tablet stamped "9 B 1923"-----	809.678
Reference mark, 140 ft. N. and 40 ft. E. from crossroads, 10 ft. E. of fence, in root on W. side of 18-in. maple tree; copper nail and washer-----	809.03
Chase, 1.2 mi. E. thence 2.0 mi. S. from, near SW. cor. sec. 14, T. 39 N., R. 5 E., 140 ft. N. and 30 ft. E. from crossroads, at fence line on E. side of rd., in root on SE. side of 36-in. willow tree; copper nail and washer-----	812.22
Chase, 1.2 mi. E. thence 1.0 mi. S. from, near N. cor. secs. 14 and 15, T. 39 N., R. 5 E., 190 ft. S. of crossroads, on S. wing wall of concrete culvert; chiseled square-----	821.38

# WALNUT QUADRANGLE

[Latitude 41°30'–41°45'; longitude 89°30'–89°45']

BUREAU, LEE, AND WHITESIDE COUNTIES

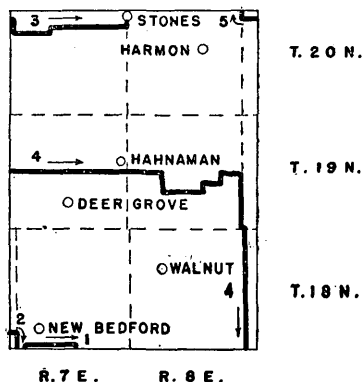


FIGURE 276.—Lines of leveling in Walnut quadrangle.

1. From point 1 mile south and 0.6 mile west from New Bedford along roads north 0.1 mile, thence east 2.7 miles, thence south 0.1 mile to point 3 miles north and 0.5 mile west from Manlius (by E. O. Brooks in 1921)

[Continued from Buda quadrangle, line 4]

New Bedford, 0.9 mi. S. and 0.6 mi. W. from, 0.25 mi. S. of center of sec. 31, T. 18 N., R. 7 E., 8 ft. N. of corner of right-of-way fence E. and fence N., in root of 8-in. white-oak tree; copper nail and washer	Feet 640.74
New Bedford, 0.9 mi. S. and 0.5 mi. E. from, near center of SE¼ sec. 32, T. 18 N., R. 7 E., 75 ft. S. of rd. junction, at NE. corner of steel bridge over Green River, on S. side of steel-capped bridge seat; top of easternmost bolt head	647.36
New Bedford, 0.9 mi. S. and 1.5 mi. E. from, 3.0 mi. N. and about 1 mi. W. from Manlius, in SE¼ sec. 33, T. 18 N., R. 7 E., 115 ft. N. and 165 ft. E. from residence of D. D. Draper, 2 ft. N. of S. right-of-way fence, in root of 18-in. maple tree; copper nail and washer	646.59

[Continued in Buda quadrangle, line 7]

2. From point 0.2 mile south and 1.5 miles west from New Bedford east along road 0.4 mile, thence south along range-line road 0.8 mile (by H. S. Senseney in 1927)

[Continued from Prophetstown quadrangle, line 4]

New Bedford, 0.2 mi. S. and 1.1 mi. W. from, near NE. cor. sec. 36, T. 18 N., R. 6 E., 315 ft. S. of junction of T-rd. S., on W. side of rd., in root of tree; copper nail and washer	643.07
---	--------

[Connects with line 4 in Buda quadrangle]

3. From point 1.5 miles south and 0.5 mile east from Como along roads south, east, and north to point 0.3 mile north of Stones (by G. W. Moore in 1930)

[Connects with line 6 in Morrison quadrangle]

Como, 1.8 mi. S. and 0.7 mi. E. from, about 0.2 mi. S. of NE. cor. sec. 12, T. 20 N., R. 6 E., 330 ft. NW. of junction of N.-S. rd., at SW. end of iron bridge, on top of curb; chiseled square-----	Feet 619.87
T. 20 N., R. 7 E., 0.22 mi. S. of W $\frac{1}{4}$ cor. sec. 7, 165 ft. N. and 25 ft. E. from junction of T-rd. E., in fence, 140 ft. N. of corner post, 1.6 ft. above ground; in E. base of twin willow tree; copper nail and washer-----	637.44
T. 20 N., R. 7 E., near center of SE $\frac{1}{4}$ sec. 7, 33 ft. N. and 33 ft. E. from junction of T-rd. N., 8 ft. N. and 8 ft. E. from fence corner, in root on N. side of 30-in. cottonwood tree; copper nail and washer-----	647.36
T. 20 N., R. 7 E., 0.25 mi. S. of E $\frac{1}{4}$ cor. sec. 8, 27 ft. S. and 38 ft. W. from junction of N.-S. rd., in fence corner, in root on W. side of 23-in. cherry tree; copper nail and washer-----	644.75
T. 20 N., R. 7 E., near W $\frac{1}{4}$ cor. sec. 9, 0.7 mi. S. thence 4.0 mi. W. from Stones, 48 ft. S. and 24 ft. E. from junction of T-rd. E., in concrete post; standard tablet stamped "T T 96 E 1929"-----	653.130
Reference mark, 95 ft. NE. of tablet, 26 ft. S. and 115 ft. E. from rd. junction, in root on SE. side of 16-in. boxelder tree; copper nail and washer-----	648.94
Stones, 0.7 mi. S. thence 3.0 mi. W. from, about 3 mi. S. of Rock Falls, near W $\frac{1}{4}$ cor. sec. 10, T. 20 N., R. 7 E., in NE. angle of crossroads, on E. side of N. head wall of concrete culvert; chiseled square-----	649.11
Stones, 0.7 mi. S. thence 2.0 mi. W. from, near W $\frac{1}{4}$ cor. sec. 11, T. 20 N., R. 7 E., 35 ft. S. and 40 ft. E. from junction of T-rd. S., in root on N. side of 28-in. maple tree; copper nail and washer-----	648.72
Stones, 0.7 mi. S. thence 1.0 mi. W. from, near quarter corner between secs. 11 and 12, T. 20 N., R. 7 E., at offset crossroads, 27 ft. S. and 21 ft. E. from junction of T-rd. S., 27 ft. S. of junction of T-rd. N., in concrete post; standard tablet stamped "T T 97 E 1929"-----	647.306
Reference mark, 23 ft. SE. of tablet, in field, in root on NW. side of 16-in. locust tree; copper nail and washer-----	647.36
Stones, 0.7 mi. S. of, 1.0 mi. N. and 4.0 mi. W. from Harmon, near E $\frac{1}{4}$ cor. sec. 12, T. 20 N., R. 7 E., 123 ft. S. of W $\frac{1}{4}$ cor. sec. 7, T. 20 N., R. 8 E., 33 ft. S. and 36 ft. W. from junction of N.-S. rd., in root on NE. side of 14-in. evergreen tree; copper nail and washer-----	652.87
Stones, 0.2 mi. N. of SW. cor. sec. 6, T. 20 N., R. 8 E., 250 ft. N. and 30 ft. E. from crossing of Chicago, Burlington & Quincy R. R., in SW. corner of yard, in root on W. side of 15-in. boxelder tree; copper nail and washer <sup>19</sup> -----	657.64

[Continued in Woosung quadrangle, line 5]

4. From point 1.8 miles east of Tampico along roads generally east to crossroads 5 miles north and 4 miles east from Walnut, thence south to point 0.3 mile north and 2.4 miles west from Limerick (by G. W. Moore in 1930)

[Connects with line 4 in Prophetstown quadrangle]

<sup>19</sup> In 1941 this bench mark was tied to U. S. C. & G. S. standard disk stamped "F 48 1934," elevation 654.369 ft.

# 1660 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Tampico, 2.0 mi. E. of, 1.5 mi. N. thence 3.0 mi. W. from Deer Grove, near NW. cor. sec. 19, T. 19 N., R. 7 E., 26 ft. S. and 85 ft. E. from crossroads, 4 ft. N. and 60 ft. E. from fence corner, in root on NW. side of 23-in. tree; copper nail and washer-----	<i>Feet</i> 641.48
Deer Grove, 1.5 mi. N. thence 2.0 mi. W. from, near NE. cor. sec. 19, T. 19 N., R. 7 E., 21 ft. S. and 130 ft. W. from crossroads, 4 ft. N. and 100 ft. W. from fence corner, in root on N. side of 18-in. maple tree; copper nail and washer-----	658.48
Deer Grove, 1.5 mi. N. thence 1.0 mi. W. from, near SW. cor. sec. 16, T. 19 N., R. 7 E., 21 ft. N. and 63 ft. E. from junction of T-rd. N., in concrete post; standard tablet stamped "T T 92 E 1929"-----	653.927
Deer Grove, 1.5 mi. N. of, near NW. cor. sec. 22, T. 19 N., R. 7 E., in SE. angle of intersection of State Highway 88, on E. end of S. head wall of concrete culvert; chiseled square-----	647.41
Deer Grove, 1.5 mi. N. thence 1.0 mi. E. from, near NW. cor. sec. 23, T. 19 N., R. 7 E., 25 ft. S. and 340 ft. E. from junction of T-rd. S., in root on NE. side of 12-in. Osage-orange tree; copper nail and washer-----	651.06
Deer Grove, 1.5 mi. N. thence 2.0 mi. E. from, 0.5 mi. S. thence 0.7 mi. W. from Hahnaman, at Island School, near NE. cor. sec. 23, T. 19 N., R. 7 E., 30 ft. S. and 28 ft. W. from crossroads, in NE. corner of schoolyard, in concrete post; standard tablet stamped "T T 93 E 1929" (recovered by U. S. C. & G. S. in 1934)-----	658.831
Reference mark, 125 ft. SW. of tablet, in schoolyard, 28 ft. S. and 13 ft. E. from NW. fence corner, in root on NW. side of 17-in. maple tree; copper nail and washer-----	656.06
Hahnaman, 0.5 mi. S. thence 0.3 mi. E. from, near SE. cor. sec. 13, T. 19 N., R. 7 E., 18 ft. N. and 280 ft. W. from junction of T-rd. S. along Lee-Whiteside county line, in root on S. side of 7-in. hard-maple tree; copper nail and washer-----	654.93
Hahnaman, 0.5 mi. S. thence 1.3 mi. E. from, near SW. cor. sec. 17, T. 19 N., R. 8 E., 30 ft. N. and 50 ft. E. from crossroads, in root on S. side of 6-in. cottonwood tree; copper nail and washer-----	657.69
Hahnaman, 0.5 mi. S. thence 2.3 mi. E. from, 5.0 mi. N. of Walnut, near NW. cor. sec. 21, T. 19 N., R. 8 E., 25 ft. S. and 52 ft. E. from crossroads, in concrete post; standard tablet stamped "T T 94 E 1929"-----	653.302
Reference mark, 150 ft. NE. of tablet, 20 ft. N. and 185 ft. E. from crossroads, in root on W. side of 9-in. cottonwood tree; copper nail and washer-----	651.60
Walnut, 4.0 mi. N. of, near SW. cor. sec. 21, T. 19 N., R. 8 E., 130 ft. E. of crossroads, on E. end of N. head wall of concrete culvert; chiseled square-----	653.14
Walnut, 4.0 mi. N. and 1.0 mi. E. from, near SW. cor. sec. 22, T. 19 N., R. 8 E., 400 ft. E. of N-S. line fence, on N. parapet of E. abutment; chiseled square-----	656.54
Walnut, 4.0 mi. N. and 2.0 mi. E. from, near W. cor. secs. 23 and 26, T. 19 N., R. 8 E., 25 ft. E. of junction of N-S. rd., 20 ft. N. and 2 ft. W. from fence corner, in concrete post; standard tablet stamped "T T Sta 95 E 1929"-----	660.749
Reference mark, 35 ft. S. and 280 ft. W. from tablet, in root on N. side of 42-in. maple tree; copper nail and washer-----	661.74

Walnut, 4.5 mi. N. and 2.0 mi. E. from, near E $\frac{1}{4}$ cor. sec. 22, T. 19 N., R. 8 E., 60 ft. N. and 28 ft. W. from junction of T-rd. E., in root on SE. side of 15-in. elm tree; copper nail and washer-----	Feet 660.68
Walnut, 4.5 mi. N. and 2.9 mi. E. from, 0.14 mi. W. of E $\frac{1}{4}$ cor. sec. 23, T. 19 N., R. 8 E., 25 ft. S. and 745 ft. W. from junction of N.-S. rd., in root on E. side of multiple willow tree; copper nail and washer---	667.54
Walnut, 5.0 mi. N. and 3.0 mi. E. from, near NE. cor. sec. 23, T. 19 N., R. 8 E., 2 ft. S. and 22 ft. W. from junction of T-rd. E., 2 ft. S. and 6 ft. E. from fence corner, on top of N. end of circular concrete drain pipe under rd. to field; chiseled square-----	666.42
Walnut, 5.0 mi. N. and 4.0 mi. E. from, near SE. cor. sec. 13, T. 19 N., R. 8 E., 90 ft. N. and 30 ft. W. from W. cor. secs. 18 and 19, T. 19 N., R. 9 E., 100 ft. N. of NW. corner of crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No. 44 1911"-----	676.398
Walnut, 3.9 mi. N. and 4.0 mi. E. from, 550 ft. S. of NW. cor. sec. 30, T. 19 N., R. 9 E., on E. parapet of N. abutment of large iron bridge; chiseled square-----	685.47
Walnut, 3.0 mi. N. and 4.0 mi. E. from, near SW. cor. sec. 25, T. 19 N., R. 8 E., 30 ft. N. and 30 ft. W. from crossroads, in fence corner, in root on W. side of 6-in. cherry tree; copper nail and washer-----	731.24
Walnut, 2.0 mi. N. and 4.2 mi. E. from, about 950 ft. E. of SW. cor. sec. 31, T. 19 N., R. 9 E., opposite center line of T-rd. S. at N. cor. secs. 1 and 6, T. 18 N., R. 8 and 9 E., 950 ft. E. of T-rd. N., in concrete post; standard tablet stamped "2 M 1930"-----	772.072
Walnut, 1.0 mi. N. and 4.2 mi. E. from, near SE. cor. sec. 1, T. 18 N., R. 8 E., at offset crossroads, 115 ft. N. and 35 ft. W. from junction of T-rd. E., 190 ft. N. of T-rd. W., in root on S. side of 22-in. apple tree; copper nail and washer-----	830.19
Walnut, 0.2 mi. N. and 4.2 mi. E. from, 0.25 mi. N. of SE. cor. sec. 12, T. 18 N., R. 8 E., 25 ft. S. and 35 ft. W. from junction of T-rd. W., in root on N. side of twin maple tree; iron spike and washer (State Highway Dept. B. M.)-----	854.08
Walnut, 4.2 mi. E. of, near SW. cor. sec. 7, T. 18 N., R. 9 E., 125 ft. N. and 20 ft. E. from junction of T-rd. E., 30 ft. SW. of bend in rd. on top of large circular concrete drain; chiseled square-----	817.90
Walnut, 1.0 mi. S. and 4.2 mi. E. from, near NW. cor. sec. 19, T. 18 N., R. 9 E., 30 ft. S. and 45 ft. E. from offset crossroads, in line with center line of rd. W., in concrete post; standard tablet stamped "1 M 1930"-----	851.924
Reference mark, 160 ft. W. of tablet, 120 ft. W. of crossroads, on E. end of S. head wall of concrete culvert; chiseled square-----	848.79
Walnut, 2.0 mi. S. and 4.2 mi. E. from, near SE. cor. sec. 24, T. 18 N., R. 8 E., 30 ft. N. and 20 ft. W. from crossroads, in root on SE. side of 33-in maple tree; copper nail and washer-----	818.71
Walnut, 3.0 mi. S. and 4.2 mi. E. from, 1.0 mi. N. and 2.4 mi. W. from Limerick, near NW. cor. sec. 31, T. 18 N., R. 9 E., 30 ft. S. and 45 ft. E. from crossroads, in root on S. side of 14-in. walnut tree; copper nail and washer-----	774.00

[Connects with lines 1 and 7 in Buda quadrangle]

5. From point 1.5 miles north and 2.8 miles east from Harmon along roads west 0.8 mile, thence north 0.5 mile (by G. W. Moore in 1930)

[Connects with line 3 in Amboy quadrangle]

1662 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Harmon, 1.5 mi. N. and 2.0 mi. E. from, 60 ft. N. and 35 ft. W. from E. cor. secs. 1 and 12, T. 20 N., R. 8 E., 35 ft. W. of W. cor. secs. 6 and 7, T. 20 N., R. 9 E., on W. side of rd., opposite T-rd. E., just inside fence; standard iron post with bronze cap stamped "Prim Trav Sta No 43 1911"-----	<i>Feet</i> 684.442
Reference mark, 295 ft. S. and 45 ft. E. from iron post, on E. parapet of N. abutment of bridge; chiseled square-----	686.13
[Connects with line 5 in Woosung quadrangle]	

# WAUKEGAN QUADRANGLE

[Latitude 42°15'–42°30'; longitude 87°45'–88°00']

## LAKE COUNTY

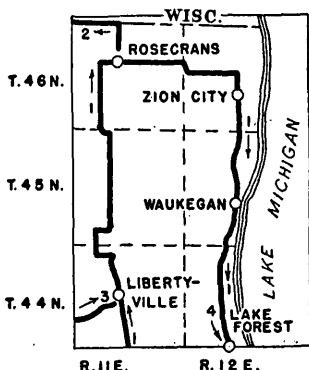


FIGURE 277.—Lines of leveling in Waukegan quadrangle.

1. From point 2.8 miles south of Libertyville along Milwaukee Avenue road and other roads generally north to crossroads 1 mile west of Rosecrans, thence east to Zion City, thence south along Sheridan road (State Highway 42) to Lake Forest (by Henry Bücher in 1905)

[Continued from Highwood quadrangle, line 3]

Libertyville, at SE. corner of town hall, in stone foundation of E. front, 1.3 ft. above ground; aluminum tablet stamped "1905 698 Adj" (recovered in 1919)-----	Feet 698.185
Libertyville, 2.2 mi. N. of, 0.15 mi. E. of W $\frac{1}{4}$ cor. sec. 4, T. 44 N., R. 11 E., on E. side of highway, opposite rd. W., in line with E.-W. line fence, 1 ft. W. of fence, 4 ft. S. of telephone pole; standard iron post with bronze cap stamped "1905 660 Adj"-----	659.464
Libertyville, 3.4 mi. N. and 1.2 mi. W. from, about 8 mi. W. of Waukegan, at Harris Corners, in NW $\frac{1}{4}$ sec. 32, T. 45 N., R. 11 E., in SE. angle of junction of Belvidere rd., on E. side of rd., 21 ft. S. of E.-W. fence line; standard iron post with bronze cap stamped "1905 766 Adj" (recovered in 1919)-----	766.003
Waukegan, 6.8 mi. in air line W. of, at Grange Hall, near E $\frac{1}{4}$ cor. sec. 20, T. 45 N., R. 11 E., in NW. angle of crossroads, in SE. corner of schoolyard, 4 ft. W. of fence corner, 1 ft. N. of fence; standard iron post with bronze cap stamped "1905 760 Adj"-----	759.823
T. 45 N., R. 11 E., near W $\frac{1}{4}$ cor. sec. 4, in NE. angle of crossroads, 40 ft. E. of fence corner, 1 ft. S. of fence; standard iron post with bronze cap stamped "1905 720 Adj"-----	719.483

# 1664 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

T. 46 N., R. 11 E., near N $\frac{1}{4}$ cor. sec. 29, 1.0 mi. W. thence 1.5 mi. S. from Rosecrans, in SE. angle of crossroads, 20 ft. S. of fence corner, 1 ft. W. of fence; standard iron post with bronze cap stamped "1905 763 Adj"-----	<i>Feet</i> 762.560
Rosecrans, near center of sec. 16, T. 46 N., R. 11 E., in NW. angle of crossroads, 11 ft. W. of fence corner, 1 ft. S. of fence; standard iron post with bronze cap stamped "1905 722 Adj" (recovered in 1919)-----	722.268
Rosecrans, 2.5 mi. E. of, 1.5 mi. N. and 4.0 mi. W. from Lake Mound Cemetery in Zion City, near W $\frac{1}{4}$ cor. sec. 13, T. 46 N., R. 11 E., in SE. angle of crossroads, 8 ft. S. of fence corner, 1 ft. W. of fence; standard iron post with bronze cap stamped "1905 701 Adj"-----	700.983
Zion City, 1.0 mi. N. thence 2.3 mi. W. from, 0.3 mi. W. of SE. cor. sec. 18, T. 46 N., R. 12 E., in NW. angle of crossroads, on bank, 2 ft. S. of old board fence, 14 ft. W. of E. line of fence; standard iron post with bronze cap stamped "1905 714 Adj"-----	713.734
Zion City, at Lake Mound Cemetery, in SE. corner of crossroads, 1 ft. W. of cemetery fence; standard iron post with bronze cap stamped "1905 633 Adj" <sup>20</sup> -----	632.466
Zion City, 3.1 mi. S. of, 2.7 mi. N. of Lake County courthouse in Waukegan, 0.2 mi. W. of NE. cor. sec. 9, T. 45 N., R. 12 E., in SW. angle of junction of rd. W., 9 ft. W. of fence corner, 1 ft. N. of fence; standard iron post with bronze cap stamped "1905 647 Adj" <sup>21</sup> -----	646.550
Waukegan, at Lake County courthouse, on N. side of E. entrance, in stone base of two columns; aluminum tablet stamped "1905 669 Adj" (recovered by U. S. C. & G. S. in 1934)-----	668.394
North Chicago, near Eighteenth Street sta. of Chicago & Milwaukee electric railway, at Elgin, Joliet & Eastern Ry. bridge over Chicago & North Western Ry., C. & M. electric railway, and wagon rd., in W. abutment, in top of projection of bottom course of masonry, 4.2 ft. N. of S. end, 1.5 ft. above pavement; aluminum tablet stamped "1905 659 Adj" <sup>22</sup> -----	658.822
Lake Bluff, at C. & N. W. Ry. bridge over wagon rd. and Libertyville Branch of C. & M. electric railway, S. of R. R. sta., in top of stone foundation wall supporting iron columns between electric railway and wagon rd., 3 ft. NW. of SE. end; aluminum tablet stamped "1905 671 Adj" (recovered by U. S. C. & G. S. in 1934)-----	670.770
Lake Forest, at City Hall, in SE. corner of grounds; standard iron post with bronze cap stamped "1905 713 Adj" <sup>23</sup> -----	713.065

[Continued in Highwood quadrangle, line 4]

2. From Rosecrans north along road and U. S. Highway 41 to Illinois-Wisconsin State line, thence west along State-line road to point 1.3 miles east of Pikeville (by S. L. Parker in 1919)

Rosecrans, 1.0 mi. N. of, near center of sec. 9, T. 46 N., R. 11 E., 25 ft. E. of SE. corner of crossroads, 6 ft. N. of wire fence, in root on W. side of 30-in. soft-maple tree; copper nail and washer-----	720.18
---	--------

<sup>20</sup> In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "Zion 1934," elevation 633.591 ft. In 1938 the mark was reported destroyed.

<sup>21</sup> In 1926 this bench mark was reported destroyed.

<sup>22</sup> In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "North Chicago 1934," elevation 662.292 ft.

<sup>23</sup> This bench mark was destroyed prior to 1924, and was replaced by the standard tablet stamped "Prim Trav Sta No 12 1906," described in line 4.

Rosecrans, 2.0 mi. N. of, at Penders Corners, near N $\frac{1}{4}$ cor. sec. 4, T. 46 N., R. 11 E., at Illinois-Wisconsin State line, in SW. angle of rd. junction, in root on N. side of 24-in. white-oak tree; copper nail and washer-----	<i>Feet</i> 759.73
Rosecrans, 2.0 mi. N. thence 1.0 mi. W. from, at Kelley Corners, near N $\frac{1}{4}$ cor. sec. 5, T. 46 N., R. 11 E., 100 ft. E. of crossroads, 3 ft. S. of State line, in root on N. side of 16-in. water-oak tree; copper nail and washer-----	799.35
Rosecrans, 2.0 mi. N. thence 2.0 mi. W. from, 1.8 mi. E. of Pikeville, at Crawford Corners, 50 ft. NE. of SW. cor. sec. 35, T. 1 N., R. 21 E., on N. side of State-line rd., 800 ft. NW. of farmhouse of Charles Crawford; standard iron post with bronze cap stamped "Prim Trav Sta No 1 1904 785" <sup>24</sup> -----	784.615
[Continued in Grays Lake quadrangle, line 1]	
3. From Mundelein northeast along Mechanics Grove road to Libertyville (by S. L. Parker in 1919)	
[Continued from Grays Lake quadrangle, line 2]	
Mundelein, 1.7 mi. NE. of, 1.4 mi. SW. of town hall in Libertyville, about 0.3 mi. N. of center of sec. 20, T. 44 N., R. 11 E., at SE. corner of rd. junction, on corner of concrete sidewalk; chiseled square---	716.82
4. From Lake Bluff south along road to Lake Forest (by S. R. Archer in 1925; leveled twice)	
Lake Bluff, 0.7 mi. S. of R. R. bridge, 1.4 mi. N. of City Hall in Lake Forest, 300 ft. N. of corporation line between Lake Bluff and Lake Forest, in SE. angle of junction of T-rd. E., in root on SE. side of 24-in. oak tree; copper nail and washer-----	691.55
Lake Forest, just E. of intersection of Western and Woodlawn Avenues, at Chicago & North Western Ry. bridge over Woodlawn Avenue, at W. end of subway, on N. side, at foot of SW. side of W. steel column, on curb; chiseled square-----	688.84
Lake Forest, at City Hall, in SE. corner of grounds, in concrete post; standard tablet stamped "Prim Trav Sta No 12 1906" <sup>25</sup> (recovered by U. S. C. & G. S. in 1934)-----	712.676
Reference mark, at steps on E. side of corner entrance to City Hall, on top of ledge at N. end of lower step; chiseled square-----	714.29

<sup>24</sup> This bench mark is in Wisconsin.

<sup>25</sup> In 1927 this bench mark was moved 5 ft. north of this position, to a point 26 in. west of north-south walk and 4.5 ft. north of east-west walk, and reset at an elevation 0.030 ft. lower than that originally determined. The figures given represent the new elevation.

# WHEATON QUADRANGLE

[Latitude 41°45'–42°00'; longitude 88°00'–88°15']

## COOK AND DU PAGE COUNTIES

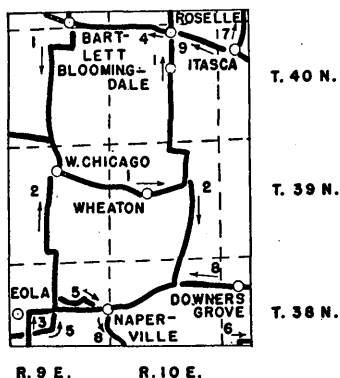


FIGURE 278.—Lines of leveling in Wheaton quadrangle.

1. From Bartlett south along roads to West Chicago, thence east along Chicago & North Western Railway to Glen Ellyn, thence north along roads to Roselle (by R. C. Howard in 1905)

Bartlett, 492 ft. NW. of Chicago, Milwaukee, St. Paul & Pacific R. R. sta., 328 ft. N. of track, in stone foundation of Congregational Church, in E. face of SE. corner; center of copper bolt leaded horizontally (U. S. C. E. B. M. 89; recovered in 1936; also recovered by U. S. C. & G. S. in 1934)	803.256
Bartlett, 1.4 mi. S. and 1.2 mi. W. from, 4.5 mi. N. of Ingaltan, near NE. cor. sec. 9, T. 40 N., R. 9 E., at SE. corner of stone bridge over small stream, in E. wall; aluminum tablet stamped "1905 787"	787.015
Ingaltan, 0.5 mi. NW. of, 2.5 mi. N. of West Chicago, 0.25 mi. W. of SE. cor. sec. 28, T. 40 N., R. 9 E., in S. wall of SW. corner of schoolhouse; aluminum tablet stamped "1905 795" (recovered in 1907) <sup>26</sup>	792.481
West Chicago, in E. wall of City Hall, 2 ft. from SE. corner; aluminum tablet stamped "1905 784"	783.730
Winfield, 2.6 mi. SE. of West Chicago, 2.8 mi. NW. of Wheaton, 150 ft. E. of C. & N. W. Ry. sta., 75 ft. S. of track, on E. side of rd., in stone culvert; aluminum tablet stamped "1905 727"	726.323
Wheaton, at Du Page County courthouse, on N. side of W. entrance; aluminum tablet stamped "1905 753"	752.536
Glen Ellyn, 2.2 mi. E. of Wheaton, 5.5 mi. S. and 0.8 mi. E. from Bloomingtondale, in N. wall of high school building, 6 ft. W. of entrance; aluminum tablet stamped "1905 766" <sup>27</sup>	765.719

<sup>26</sup> In 1928 the schoolhouse was moved 200 ft. southeast of its former location. The bench mark was replaced by a standard tablet stamped "793," set in west face of foundation. at an elevation 1.999 ft. lower than that originally determined. The figures given represent the new elevation. In 1942 it was reported that the tablet had been destroyed but that the location of the tablet still showed on the building.

<sup>27</sup> In 1929 this bench mark was reported destroyed.

Bloomington, 1.7 mi. S. of Roselle, in W. wall of Kolbusch & Hauseminn store building, 35 ft. S. of N. wall; aluminum tablet stamped "1905 771" -----	<i>Feet</i> 770.710
Roselle, at Farmers Elevator Co. building, in SW. corner of intersection of Chicago Street and rd., 260 ft. N. of C. M. St. P. & P. R. R., in N. face of foundation wall, 3 ft. from NE. corner, 2 ft. above ground; center of copper bolt leaded horizontally (U. S. C. E. B. M. 90; recovered in 1936; also recovered by U. S. C. & G. S. in 1934) -----	771.718
2. From Glen Ellyn south along road to Lisle, thence west along Chicago, Burlington & Quincy Railroad to road crossing 3 miles west of Naperville, thence north along roads and Elgin, Joliet & Eastern Railway to West Chicago (by R. C. Howard in 1905)	
Glen Ellyn, 3.5 mi. S. of, 2.0 mi. N. of Lisle, near center of NW $\frac{1}{4}$ sec. 35, T. 39 N., R. 10 E., in W. end of S. abutment of small bridge; aluminum tablet stamped "1905 697" <sup>28</sup> -----	697.204
Lisle, 0.2 mi. W. of, 3.7 mi. NE. of C. B. & Q. R. R. sta. in Naperville, at R. R. bridge over East Branch of Du Page River, in N. end of E. abutment; aluminum tablet stamped "1905 674" <sup>29</sup> -----	674.195
Naperville, at SE. corner of intersection of Van Buren Avenue and Washington Street, at NW. corner of Nichols Library, in W. wall; aluminum tablet stamped "1905 693" (recovered in 1925) -----	693.081
Naperville, 3.0 mi. W. of, 3.0 mi. S. and 0.5 mi. E. from Warrenhurst, 2.0 mi. E. of Eola, near W $\frac{1}{4}$ cor. sec. 15, T. 38 N., R. 9 E., 100 ft. E. of rd. crossing, in N. side of E. abutment of stone culvert under R. R.; aluminum tablet stamped "1905 697" <sup>30</sup> -----	697.054
Warrenhurst, 275 ft. E. of E. J. & E. Ry. track, 50 ft. N. of rd., 10 ft. W. of SE. corner of stone foundation of Daw Bros. house, in S. wall; aluminum tablet stamped "1905 732" -----	732.029
3. From point 0.4 mile north of Frontenac north along Elgin, Joliet & Eastern Railway to point 0.5 mile east of Eola, thence east along Chicago, Burlington & Quincy Railroad to Naperville (by S. L. Parker in 1919)	

[Continued from Joliet quadrangle, line 3]

Frontenac, 2.2 mi. N. of, 0.5 mi. E. of Eola, at overhead crossing of E. J. & E. Ry. and C. B. & Q. R. R., on E. end of S. abutment of bridge, 7 ft. E. of track; chiseled square -----	740.25
Eola, 1.9 mi. E. of, 3.1 mi. W. of Naperville, in NE. angle of rd. crossing, 4 ft. along right-of-way line E. of fence corner; standard iron post with bronze cap stamped "1919 696" (recovered in 1923) -----	695.850
Naperville, 0.4 mi. W. of sta., at viaduct, on S. side of track, on W. end of concrete retaining wall; chiseled square <sup>31</sup> -----	707.82

<sup>28</sup> In 1925 this bench mark was reported destroyed.

<sup>29</sup> In 1924 this bench mark was reported destroyed. It was replaced in 1925 by the standard tablet stamped "682," described in line 8.

<sup>30</sup> In 1919 this bench mark was reported destroyed.

<sup>31</sup> In 1942 this bench mark was reported covered by a block of concrete.

4. From point 1.1 miles north of Roselle south along road to Roselle, thence west along Chicago, Milwaukee, St. Paul & Pacific Railroad to point 1.7 miles northwest of Bartlett (by S. L. Parker in 1919; portion of line north of Roselle leveled twice)

[Continued from Barrington quadrangle, line 5]

Roselle, 1.0 mi. W. of, on S. side of track, on NE. corner of concrete foundation of block signal; chiseled square-----	<i>Feet</i> 798.09
Roselle, 1.7 mi. W. of, 120 ft. W. of rd. crossing, on N. side of track, in SW. corner of concrete foundation of block signal; aluminum tablet stamped "1919 796"-----	796.390
Roselle, 2.7 mi. W. of, 1.1 mi. E. of Ontarioville, on N. side of track, on SE. corner of concrete foundation of block signal; chiseled square--	792.71
Ontarioville, 0.9 mi. W. of, 0.9 mi. E. of Bartlett, on N. side of track, at SE. corner of concrete foundation of block signal; 1-in. iron bolt-----	798.70
Bartlett, 492 ft. NW. of sta., 328 ft. N. of track, at front entrance of Congregational Church, in E. face of concrete foundation of steps, 1.5 ft. above ground; aluminum tablet stamped "1919 807" (recovered in 1936)-----	807.559

[Continued in Barrington quadrangle, line 7]

5. From point 1.1 miles south and 0.4 mile west from Eola along roads alternately east and north to Naperville (by S. R. Archer in 1923)

[Continued from Geneva quadrangle, line 8]

Eola, 1.1 mi. S. of, 4.2 mi. E. of Aurora, 0.15 mi. E. of W $\frac{1}{4}$ cor. sec. 20, T. 38 N., R. 9 E., in NW. angle of junction of T-rd. N., on top of W. head wall of concrete culvert; chiseled square-----	712.86
Eola, 1.1 mi. S. thence 1.0 mi. E. from, near W $\frac{1}{4}$ cor. sec. 21, T. 38 N., R. 9 E., on N. side of rd., at top of hill, 20 ft. E. of driveway, 15 ft. E. of SW. corner of yard, in root on S. side of 10-in. boxelder tree; copper nail and washer-----	720.19
Eola, 1.1 mi. S. thence 1.9 mi. E. from, near E $\frac{1}{4}$ cor. sec. 21, T. 38 N., R. 9 E., in NW. angle of crossroads, on top of S. wall at W. end of concrete culvert under rd. N.; chiseled square-----	694.99
Eola, 0.4 mi. S. and 1.9 mi. E. from, near SE. cor. sec. 16, T. 38 N., R. 9 E., 65 ft. S. and 35 ft. W. from junction of rd. SW., 30 ft. S. of fence corner, inside fence, in root on E. side of 30-in. maple tree; copper nail and washer-----	709.34
Eola, 0.4 mi. N. and 1.9 mi. E. from, 0.4 mi. N. and 3.0 mi. W. from Naperville, 0.14 mi. S. of NE cor. sec. 16, T. 38 N., R. 9 E., in NW. angle of crossroads, in SE. corner of schoolyard, in root on E. side of 24-in. maple tree; copper nail and washer-----	703.78
Naperville, 1.7 mi. NW. of, near center of NW $\frac{1}{4}$ sec. 14, T. 38 N., R. 9 E., 260 ft. NW. of crossroads, on SW. side of rd., at fence line, in root on S. side of 24-in. elm tree; copper nail and washer-----	703.77

6. From point 3.1 miles south and 0.2 mile west from Downers Grove along road north 0.1 mile to crossroads, thence east 0.6 mile (by S. R. Archer in 1924)

[Connects with line 7 in Joliet quadrangle]

Downers Grove, 3.0 mi. S. of, 0.18 mi. E. of W $\frac{1}{4}$ cor. sec. 29, T. 38 N., R. 11 E., 340 ft. W. of junction of T-rd. N., on top of W. end of N. head wall of concrete highway culvert; chiseled square-----	766.21
---	--------

[Continued in Riverside quadrangle, line 1]

7. From point 0.8 mile southeast of Itasca northwest and north to point 2 miles north and 0.5 mile east from Itasca (by S. R. Archer in 1924)

[Continued from Riverside quadrangle, line 2]

Itasca, 0.2 mi. SE. of center of town, in NE. angle of intersection of Wooddale rd. and streets NW. and SW., in SW. corner of yard of dwelling of A. H. Pieper, in root on NE. side of 15-in. maple tree; copper nail and washer-----	Feet 704.49
Itasca, 250 ft. S. and 400 ft. E. from Chicago, Milwaukee, St. Paul & Pacific R. R. sta., on W. side of junction of streets S. and SE., in front of City Hall, on S. side of walk leading to entrance, in corner formed by walk along W. side of street, in concrete post; standard tablet stamped "69 A 1924" (recovered in 1936)-----	686.291
Reference mark, at E. entrance to City Hall, on S. end of stone door-sill; chiseled square (recovered in 1936)-----	686.68
Itasca, 0.5 mi. NE. of, 0.3 mi. N. of center of sec. 8, T. 40 N., R. 11 E., on W. side of rd., at angle N. in rd., in root on E. side of 30-in. maple tree; copper nail and washer-----	703.00
Itasca, 1.2 mi. NE. of, 0.2 mi. E. of center of sec. 5, T. 40 N., R. 11 E., 125 ft. NW. of junction of rd. NW., on NE. side of rd., in root on E. side of 36-in. willow tree; copper nail and washer-----	695.92
Itasca, 2.0 mi. NE. of, 250 ft. N. of center of SE $\frac{1}{4}$ sec. 32, T. 41 N., R. 11 E., 60 ft. N. of dwelling of Henry Schuett, on E. side of rd., on N. side of driveway, in root on SW. side of 8-in. pine tree; copper nail and washer-----	702.26

[Continued in Barrington quadrangle, line 11]

8. From Downers Grove west and southwest along Chicago, Burlington & Quincy Railroad to Naperville, thence south and southeast along road to point 1.6 miles south and 0.8 mile east from Naperville (by S. R. Archer in 1925)

[Connects with line 2 in Riverside quadrangle]

Downers Grove, at N. side of C. B. & Q. R. R. sta., at W. entrance, on W. end of doorsill; chiseled square-----	720.64
Downers Grove, 0.8 mi. W. of, 0.5 mi. E. of Belmont, on S. side of track, on top of NW. corner of concrete base of signal block; chiseled square (reported destroyed)-----	709.18
Belmont, 12 ft. N. and 8 ft. E. from NE. corner of sta., on S. side of track, 45 ft. W. of rd. crossing, on corner of concrete curb around sta. platform; chiseled square (reported destroyed)-----	709.46
Belmont, 0.7 mi. W. of, 1.2 mi. E. of Lisle, 400 ft. W. of N.-S. line between secs. 11 and 12, T. 38 N., R. 10 E., on S. side of track, on NW. corner of concrete base of signal block; chiseled square-----	700.61
Lisle, at R. R. bridge 24-56 over N.-S. rd., on S. side of track, 6 in. W. of W. end of iron railing, on W. end of guard wall; chiseled square-----	682.40
Lisle, 0.2 mi. W. of, at R. R. bridge 24-82 over East Branch of Du Page River, in N. side of E. abutment; standard tablet stamped "682" <sup>31</sup> -----	681.664
Lisle, 0.8 mi. SW. of, 0.12 mi. N. of W $\frac{1}{4}$ cor. sec. 10, T. 38 N., R. 10 E., on S. side of track, at overhead highway bridge, on NW. corner of concrete base of W. steel column; chiseled square-----	694.91

<sup>31</sup> Replaces aluminum tablet stamped "1905 674," described in line 2.

# 1670 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Lisle, 1.4 mi. SW. of, 0.1 mi. W. of center of sec. 9, T. 38 N., R. 10 E., on N. side of track, at overhead highway bridge, on SW. corner of concrete base of W. steel column; chiseled square-----	<i>Feet</i> 713.09
Lisle, 2.4 mi. SW. of, 1.4 mi. NE. of C. B. & Q. R. R. sta. at Naperville, near N $\frac{1}{4}$ cor. sec. 17, T. 38 N., R. 10 E., on N. side of track, on SW. corner of concrete base of signal block; chiseled square (reported destroyed)-----	718.31
Naperville, 0.4 mi. E. of sta., on S. side of track, at overhead highway bridge, on NW. corner of concrete base of W. steel column; chiseled square-----	720.45
Naperville, on E. side of sta., 30 ft. S. and 40 ft. E. from rd. crossing, on N. side of street E., on S. side of W. column of watchman's tower, on concrete base; chiseled square (reported destroyed)-----	716.16
Naperville, 1.3 mi. S. of sta., near E $\frac{1}{4}$ cor. sec. 24, T. 38 N., R. 9 E., on W. side of rd., at top of hill, in yard, on S. side of entrance to Edward Sanatorium, in root on E. side of 24-in. maple tree; copper nail and washer-----	694.17
Naperville, 1.9 mi. S. of, 0.2 mi. W. of quarter corner between secs. 19 and 30, T. 38 N., R. 10 E., 385 ft. SE. of junction of rd. SW., on SW. side of rd., in field, in trunk on W. side of 5-in. cherry tree, second from NW. end of row of trees; copper nail and washer---	683.19

[Continued in Joliet quadrangle, line 11]

9. From Itasca northwest along Chicago, Milwaukee, St. Paul & Pacific Railroad to Roselle (by S. R. Archer in 1925; releveled between Medinah and Roselle by E. W. Gouchenour in 1936)

Itasca, 1.2 mi. NW. of, 0.8 mi. SE. of Medinah, 0.12 mi. N. of center of NE $\frac{1}{4}$ sec. 12, T. 40 N., R. 10 E., 60 ft. E. of private rd. crossing, on S. side of track, on top of NW. corner of concrete base of signal block; chiseled square-----	741.09
Medinah, 50 ft. S. and 55 ft. W. from rd. crossing, at S. right-of-way line, 30 ft. W. of fence corner, in root on NW. side of three-forked poplar tree; copper nail and washer (tree cut down but nail intact in 1936)-----	739.51
Roselle, at R. R. bridge over Irving Park Boulevard, 3 ft. S. of S. rail, on corner of W. abutment; chiseled square (established in 1936)-----	763.00

# WILMINGTON QUADRANGLE

[Latitude 41°15'–41°30'; longitude 88°00'–88°15']

GRUNDY, KANKAKEE, AND WILL COUNTIES

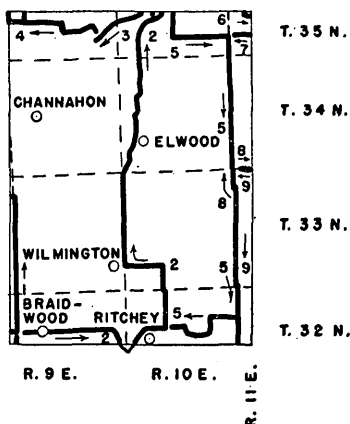


FIGURE 279.—Lines of leveling in Wilmington quadrangle.

1. From point 1.5 miles south and 1.8 miles east from Coal City east 0.2 mile to crossroads 1.5 miles west of Braidwood, thence north along Grundy-Will county-line road to point 5 miles north of Diamond (by E. C. Bibbee in 1914)

[Continued from Morris quadrangle, line 1]

Braidwood, 1.5 mi. W. of Chicago & Alton R. R. crossing, 1.5 mi. N. of Godley, 2.0 mi. S. of Diamond, 1.5 mi. S. and 2.0 mi. E. from Coal City, near SW. cor. sec. 7, T. 32 N., R. 9 E., in NE. angle of crossroads, 7 ft. SW. of fence corner; standard iron post with bronze cap stamped "Prim Trav Sta No 22 1914 579" (recovered in 1941)-----	Feet 578.393
Diamond, 1.0 mi. S. of, near NW. cor. sec. 7, T. 32 N., R. 9 E., in SE. angle of crossroads, on S. end of W. parapet of bridge; chiseled square -----	572.68
Diamond, 0.5 mi. N. of, near E¼ cor. sec. 36, T. 33 N., R. 8 E., 5 ft. N. and 2 ft. E. from fence corner; standard iron post with bronze cap stamped "551" -----	551.004
Diamond, 1.0 mi. N. of, 100 ft. S. and 10 ft. W. from NE. cor. sec. 36, T. 33 N., R. 8 E., on large granite boulder; chiseled square -----	548.18
Chicago & Alton R. R. crossing; top of S. rail -----	549.7
Diamond, 4.0 mi. N. of, 1.7 mi. W. of Lorenzo, near SW. cor. sec. 7, T. 33 N., R. 9 E., 30 ft. N. and 25 ft. E. from crossroads, 5 ft. N. and 2 ft. W. from fence corner; standard iron post with bronze cap stamped "Prim Trav Sta No 23 1914 520" -----	519.552
Diamond, 5.0 mi. N. of, 400 ft. S. of NW. cor. sec. 7, T. 33 N., R. 9 E., on E. end of S. abutment of small bridge; chiseled square -----	505.44

[Continued in Morris quadrangle, line 2]

2. From crossroads 1.5 miles west of Braidwood generally east along roads to road junction 0.5 mile north and 0.7 mile east from Ritchey, thence generally north to Brandon Bridge over Des Plaines River near Rockdale (by R. G. Clinite in 1915)

Braidwood, at crossing of C. & A. R. R., top of rail-----	Feet 584.6
Braidwood, at SE. limits of, 0.5 mi. E. of C. & A. R. R. crossing, in NW. angle of crossroads, on N. concrete head wall of culvert; chiseled square-----	585.21
Braidwood, 1.5 mi. E. of, near NE. cor. sec. 16, T. 32 N., R. 9 E., in SW. angle of junction of T-rd. S., 7 ft. W. of fence corner; standard iron post with bronze cap stamped "588"-----	587.433
Braidwood, 3.5 mi. E. of, 0.5 mi. N. and 2.3 mi. W. from Ritchey, 1.7 mi. NW. of Custer Park, near NW. cor. sec. 13, T. 32 N., R. 9 E., in SE. angle of crossroads, diagonally opposite Johnson School, on top of S. end of concrete culvert; highest point in letter "O" of inscription "C. F. Zilm & Sons"-----	560.37
[Jogs into Herscher quadrangle, line 1]	
Ritchey, 0.5 mi. N. and 0.7 mi. E. from, near SE. cor. sec. 8, T. 32 N., R. 10 E., in NW. angle of junction of T-rd. N., 18 ft. N. of fence corner, in root of forked cherry tree; copper nail and washer-----	583.69
Ritchey, 2.5 mi. N. and 0.7 mi. E. from, 2.5 mi. E. thence 1.3 mi. S. from Wilmington, at N. cor. secs. 4 and 5, T. 32 N., R. 10 E., at angle in rd. from N. to W., 120 ft. E. of crossing of Wabash Ry., on stone marking section corner; chiseled square-----	615.86
Wilmington, 2.5 mi. E. thence 0.7 mi. S. from, near W¼ cor. sec. 33, T. 33 N., R. 10 E., in NE. angle of crossroads, 7 ft. N. of fence corner; standard iron post with bronze cap stamped "619"-----	618.322
Wilmington, 1.6 mi. E. of, 0.25 mi. N. of SW. cor. sec. 29, E. of junction of T-rd. S., W. of junction of rd. NE., on N. side at E. end of stone bridge over Jordan Creek, on top course; chiseled circle-----	570.49
Wilmington, 0.6 mi. E. thence 0.7 mi. N. from, near SE. cor. sec. 24, T. 33 N., R. 9 E., in NW. angle of crossroads, 7 ft. N. of fence corner; standard iron post with bronze cap stamped "558"-----	557.523
Wilmington, 0.6 mi. E. thence 4.7 mi. N. from, 2.0 mi. SW. thence 0.3 mi. W. from Elwood, 20 ft. S. and 50 ft. E. from NW. cor. sec. 6, T. 33 N., R. 10 E., in SE. angle crossroads, 12 ft. E. of fence corner; standard iron post with bronze cap stamped "Prim Trav Sta No 20 1915 626"-----	625.767
Elwood, 0.7 mi. W. thence 0.2 mi. N. from, 0.15 mi. E. of S¼ cor. sec. 19, T. 34 N., R. 10 E., on E. side of rd., at junction of rd. W., 20 ft. N. of E.-W. fence; standard iron post with bronze cap stamped "642"-----	641.526
Elwood, 2.2 mi. N. and 0.2 mi. W. from, at cor. secs. 7, 8, 17, and 18, T. 34 N., R. 10 E., at turn in rd. from E. to N., on stone marking section corner; highest point-----	619.83
Elwood, 3.2 mi. N. and 0.2 mi. W. from, 3.8 mi. SW. of Brandon Bridge, at Troutman Grove School, near SW. cor. sec. 5, T. 34 N., R. 10 E., in NE. angle of crossroads, in SW. corner of schoolyard, 2 ft. E. of fence corner; standard iron post with bronze cap stamped "608"-----	607.315
Brandon Bridge over Des Plaines River, 1,330 ft. SE. of SE. abutment, 1.2 mi. SE. of Rockdale, about 400 ft. N. and 30 ft. E. from SW. cor. sec. 21, T. 35 N., R. 10 E., in SE. angle of crossroads; standard iron post with bronze cap stamped "Prim Trav Sta No. 22 1915 582"-----	581.784

[Continued in Joliet quadrangle, line 1]

3. From point on Channahon road 0.6 mile west of Brandon Bridge southwest along road 2.9 miles to point about 5 miles northeast of Channahon (by R. G. Clinite in 1915)

[Continued from Joliet quadrangle, line 1]

Rockdale, 0.7 mi. S. of, 1.0 mi. in air line W. of Brandon Bridge, between Des Plaines River and Illinois & Michigan Canal, on Channahon rd., 134 ft. NE. of NW. corner of red frame house on Folk farm, 3.6 ft. from NW. fence line of rd., on granite boulder; chiseled square (U. S. C. E. T. B. M. 429) <sup>21</sup> -----	Feet 528.608
Rockdale, 1.7 mi. SW. of, near NE. cor. sec. 25, T. 35 N., R. 9 E., on NW. side of rd., in barnyard of Caleb A. Glasscock, 34 ft. E. of SE. corner of barn, on red granite boulder, 0.7 ft. above ground; chiseled square (U. S. C. E. T. B. M. 427)-----	522.325
Rockdale, 3.3 mi. SW. of, 5.0 mi. NE. of Channahon, 0.18 mi. E. of quarter corner between secs. 26 and 35, T. 35 N., R. 9 E., 725 ft. NE. of bridge over Rock Run, in front yard of dwelling of Michael Meegan; U. S. C. E. B. M. 100 cap on iron pipe----- bolt in limestone block-----	523.628 519.677
4. From point on Channahon road about 5 miles northeast of Channahon along roads alternately north and west to point in southwest quarter sec. 19, T. 35 N., R. 9 E. (by R. G. Clinite in 1915; leveled twice)	
Rockdale, 2.5 mi. SW. of, 5.3 mi. NE. thence 0.7 mi. NW. from Channahon, 0.2 mi. N. of center of sec. 26, T. 35 N., R. 9 E., 0.2 mi. SW. of Red Brick School, on SE. side of rd., 110 ft. SW. of junction of rd. SE., opposite junction of rd. N., 3.8 ft. N. of fence; standard iron post with bronze cap stamped "588"-----	587.996
Channahon, 2.8 mi. NE. thence 2.0 mi. N. from, near W $\frac{1}{4}$ cor. sec. 27, T. 35 N., R. 9 E., in SE angle of junction of T-rd. E., 5 ft. E. of fence corner, on granite boulder; chiseled square-----	586.59
T. 35 N., R. 9 E., near NW. cor. sec. 28, 300 ft. E. of crossroads, at S. end of W. abutment of steel bridge over Du Page River, in stone bridge seat; standard tablet stamped "563" (recovered in 1919)-----	562.840

[Continued in Morris quadrangle, line 5]

5. From crossroads near Brandon Bridge over Des Plaines River northeast 1.5 miles, thence south along Chicago Street 1.5 miles and east along road 3 miles to crossroads 1 mile north of corner of Tps. 34 and 35 N., Rs. 10 and 11 E., thence south along range-line road to east quarter corner sec. 12, T. 32 N., R. 10 E., thence generally west to road junction 0.5 mile north and 0.7 mile east from Ritchey (by R. G. Clinite in 1915; portion 3.5 miles north of corner of Tps. 33 and 34 N., Rs. 10 and 11 E., to township corner releveled by H. S. Hall in 1941)

No bench marks were established in the first part of this line.

[Jogs into Joliet quadrangle, line 2]

Brandon Bridge, 1.1 mi. S. and 1.0 mi. E. from, 1.0 mi. W. of Rose Hill School, near SW. cor. sec. 27, T. 35 N., R. 10 E., in NE. angle of crossroads, at E. end of small culvert, on stone; chiseled circle-----	632.82
Rose Hill School, across rd. from, near NE. cor. sec. 34, T. 35 N., R. 10 E., in SW. angle of crossroads, 5 ft. W. of fence corner; standard iron post with bronze cap stamped "655"-----	654.624

<sup>21</sup> In 1934 it was reported that this bench mark had been destroyed.

# 1674 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Rose Hill School, 2.0 mi. E. of, 0.5 mi. W. thence 2.0 mi. N. from Baker, near SW. cor. sec. 30, T. 35 N., R. 11 E., in NE. angle of crossroads, 5 ft. E. of fence corner; standard iron post with bronze cap stamped "661" (recovered in 1925)-----	<i>Feet</i> 661.023
Baker, 0.5 mi. W. of, near NE. cor. sec. 12, T. 34 N., R. 10 E., 55 ft. S. and 12 ft. W. from junction of T-rd. E., on granite boulder; chiseled square -----	681.57
Baker, 0.5 mi. W. thence 2.0 mi. S. from, 0.5 mi. N. thence 1.8 mi. W. from Manhattan, near W $\frac{1}{4}$ cor. sec. 18, T. 34 N., R. 11 E., in NE. angle of crossroads, 5 ft. N. of fence corner; standard iron post with bronze cap stamped "662" (recovered in 1941)-----	662.195
T. 34 N., R. 10 E., near SE. cor. sec. 25, in NW. angle of junction of T-rd. N., 4 ft. W. of fence corner; standard iron post with bronze cap stamped "640" (recovered in 1934) <sup>33</sup> -----	640.017
T. 33 N., R. 11 E., near NW. cor. sec. 18, 1.5 mi. N. and 2.0 mi. E. from Symerton, in SE. angle of crossroads, 5 ft. E. of fence corner; standard iron post with bronze cap stamped "638" (recovered in 1934) <sup>33</sup> -----	638.060
T. 33 N., R. 10 E., near NE. cor. sec. 36, 1.5 mi. S. and 2.0 mi. E. from Symerton, in SW. angle of crossroads, 2 ft. S. and 2 ft. E. from fence corner; standard iron post with bronze cap stamped "638" (recovered in 1941)-----	637.526
T. 32 N., R. 11 E., near NW. cor. sec. 7, in SE. angle of crossroads, 27 ft. S. of fence corner, in root of 32-in. cottonwood tree; copper nail and washer-----	624.26
T. 32 N., R. 10 E., near E $\frac{1}{4}$ cor. sec. 12, in NW. angle of junction of T-rd. W., 3 ft. E. of fence corner; standard iron post with bronze cap stamped "623" (recovered in 1922)-----	622.559
Ritchey, 0.5 mi. N. and 1.8 mi. E. from, near NE. cor. sec. 16, T. 32 N., R. 10 E., in SW. angle of junction of T-rd. W., 6 ft. S. of fence corner; standard iron post with bronze cap stamped "626"-----	625.864
6. Along roads south and east near southwest corner sec. 20, T. 35 N., R. 11 E. (by W. R. Broadus in 1924)	
[Continued from Joliet quadrangle, line 10]	
T. 35 N., R. 11 E., near SE. cor. sec. 19, 300 ft. N. and 20 ft. W. from crossroads, in root 3 in. underground, on SW. side of 12-in. walnut tree; copper nail and washer-----	659.19
[Continued in Peotone quadrangle, line 2]	
7. From point 0.6 mile south and 2.1 miles west from Brisbane west along road to crossroads 1 mile north of corner of Tps. 34 and 35 N., Rs. 10 and 11 E. (by G. F. Williams in 1925)	
[Connects with line 2 in Peotone quadrangle]	
T. 35 N., R. 11 E., near SW. cor. sec. 29, 250 ft. E. of junction of T-rd. N., on N. side of rd., 2 ft. S. of fence, in root on S. side of 30-in. maple tree; copper nail and washer-----	676.05

<sup>33</sup> In 1941 this bench mark was reported destroyed.

8. From crossroads 1.5 miles north and 2 miles east from Symerton north along range-line road 2 miles, thence east along township-line road 1 mile to point 3 miles south and 0.8 mile west from Manhattan (by Fred Freshour in 1934; releveled by W. C. Elledge in 1940)

T. 33 N., R. 10 E., near NE. cor. sec. 12, 90 ft. S. and 15 ft. W. from junction of rd. E., on top of N. end of W. head wall of concrete culvert; chiseled square (recovered in 1941)-----	<i>Feet</i> 653.62
T. 33 N., R. 11 E., near NW. cor. sec. 6, in SE. angle of crossroads, on boulder; chiseled square-----	645.08
T. 33 N., R. 11 E., 0.2 mi. W. of N $\frac{1}{4}$ cor. sec. 6, 190 ft. W. of crossing of Wabash Ry., on top of SW. wing wall of concrete highway bridge; chiseled square-----	645.88
T. 33 N., R. 11 E., near N $\frac{1}{4}$ cor. sec. 6, 0.2 mi. E. of crossing of Wabash Ry., on low inside projection of S. girder wall of concrete highway bridge; chiseled square-----	648.11

[Continued in Peotone quadrangle, line 5]

9. From point near northeast corner sec. 6, T. 33 N., R. 11 E., west 1 mile along township-line road, thence south along range-line road 5 miles to crossroads 1.5 miles south and 2 miles east from Symerton (by W. C. Elledge in 1940; releveled along range-line road by H. S. Hall in 1941)

[Connects with line 5 in Peotone quadrangle]

T. 34 N., R. 11 E., near SW. cor. sec. 31, 24 ft. N. and 132 ft. E. from junction of T-rd. S., on base of gatepost at entrance to cemetery; chiseled square-----	643.72
T. 33 N., R. 10 E., near SE. cor. sec. 12, 100 ft. N. of crossroads, on NW. wing wall of concrete bridge; chiseled square-----	639.17
T. 33 N., R. 11 E., near SW. cor. sec. 18, 42 ft. N. and 30 ft. E. from crossroads, in root on E. side of 20-in. cottonwood tree; copper nail and washer-----	641.09
T. 33 N., R. 10 E., near NE. cor. sec. 25, in SW. angle of crossroads, in front of school, on NE. corner of concrete platform; chiseled square-----	640.46

# WOOSUNG QUADRANGLE

[Latitude 41°45'–42°00'; longitude 89°30'–89°45']

CARROLL, LEE, OGLE, AND WHITESIDE COUNTIES

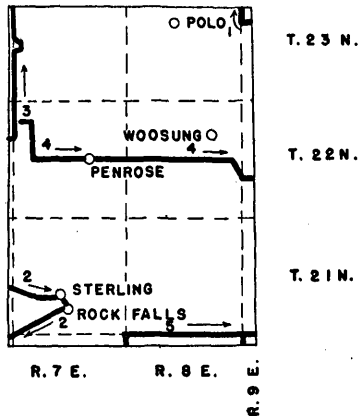


FIGURE 280.—Lines of leveling in Woosung quadrangle.

1. From point 4 miles east of Polo along roads west 0.5 mile, thence north 0.8 mile (by E. O. Brooks in 1921)

[Connects with line 5 in Dixon quadrangle]

Polo, 3.5 mi. E. of, near N. cor. secs. 13 and 18, T. 23 N., Rs. 8 and 9 E., at junction of T-rd. N., on S. side of E.-W. rd., 2 ft. N. of right-of-way fence, in 6-in. hedge stump; copper nail and washer—	Feet 855.43
Polo, 3.5 mi. E. thence 0.4 mi. N. from, near W¼ cor. sec. 7, T. 23 N., R. 9 E., at Chicago, Burlington & Quincy R. R. crossing; top of N. rail-----	844.1

[Continued in Forreston quadrangle, line 1]

2. From point 0.5 mile north and 0.6 mile east from Galt southeast and east along State Highway 6 (U. S. Highway 30) to Sterling and Rock Falls, thence southwest 2.8 miles (by H. S. Senseney in 1927)

[Connects with line 5 in Morrison quadrangle]

Galt, 0.7 mi. N. thence 1.2 mi. SE. from, 1.5 mi. W. of intersection of West Fourth Street and Avenue L in Sterling, near center of sec. 19, T. 21 N., R. 7 E., 55 ft. N. of rd. junction, at McCue's service sta., on W. side of rd., in root of tree; copper nail and washer-----	646.09
Sterling, at NE. corner of intersection of West Fourth Street and Avenue L, 1.0 mi. from Avenue G bridge over Rock River, near power transmission line pole, on concrete curb; chiseled square (recovered by U. S. C. & G. S. in 1934)-----	665.340
Rock Falls, at Avenue G bridge over Rock River, on E. end of S. abutment; standard tablet stamped "20 S 1927" (recovered by U. S. C. & G. S. in 1934)-----	640.622

Reference mark, 600 ft. S. of tablet, at NE. corner of intersection of Twelfth Avenue and West Second Street, in root of tree; copper nail and washer-----	<i>Feet</i> 640.46
Rock Falls, 0.8 mi. SW. of, about 0.25 mi. W. of NE. cor. sec. 32, T. 21 N., R. 7 E., on S. side of rd., at rd. junction, in root of tree; copper nail and washer-----	637.38
Rock Falls, 1.8 mi. SW. of, in NE $\frac{1}{4}$ sec. 31, T. 21 N., R. 7 E., in NE. angle of crossroads, in root of tree; copper nail and washer-----	639.14

[Continued in Morrison quadrangle, line 6]

8. From point 2.7 miles east of Coleta along roads east 0.3 mile, thence north to point 0.6 mile south and 0.5 mile west from Elkhorn Grove (by J. A. Shumate in 1927)

[Continued from Morrison quadrangle, line 4]

Coleta, 3.0 mi. E. of, near NW. cor. sec. 18, T. 22 N., R. 7 E., in SE. angle of crossroads, on E. head wall of concrete culvert; chiseled square-----	753.86
Coleta, 3.0 mi. E. thence 1.0 mi. N. from, 1.5 mi. E. thence 3.0 mi. S. from Milledgeville, near SW. cor. sec. 6, T. 22 N., R. 7 E., 60 ft. N. and 30 ft. E. from junction of T-rd. E., in concrete post; standard tablet stamped "T T Sta No 98 JLS 1927" (recovered in 1930)-----	768.526
Reference mark, 95 ft. S.15°E. from tablet, in root on S. side of 10-in walnut tree; copper nail and washer (recovered in 1930)-----	766.53
Milledgeville, 1.5 mi. E. thence 2.5 mi. S. from, near W $\frac{1}{4}$ cor. sec. 6, T. 22 N., R. 7 E., 30 ft. E. of junction of T-rd. W., 0.6 ft. W. of fence, in root on W. side of 24-in. maple tree; copper nail and washer-----	768.96
Milledgeville, 1.5 mi. E. thence 2.0 mi. S. from, near Carroll-Whiteside county line, near NW. cor. sec. 6, T. 22 N., R. 7 E., in SE. angle of crossroads, in bench on W. side of lone cherry tree; copper nail and washer-----	744.27
Milledgeville, 1.5 mi. E. thence 0.5 mi. S. from, near W $\frac{1}{4}$ cor. sec. 30, T. 23 N., R. 7 E., in SE. angle of crossroads, on S. head wall of concrete culvert; chiseled square-----	766.53
Milledgeville, 1.5 mi. E. of, near NE. cor. sec. 25, T. 23 N., R. 6 E., 30 ft. S. and 20 ft. W. from junction of rd. W., in concrete post; standard tablet stamped "T T Sta No 97 JLS 1927"-----	771.876
Reference mark, 130 ft. S. of tablet, on W. head wall of concrete culvert; chiseled square-----	767.59
Milledgeville, 1.5 mi. E. of, at overpass crossing of Chicago, Burlington & Quincy R. R.; top of rail-----	768.7
Milledgeville, 1.0 mi. N. and 1.5 mi. E. from, 0.5 mi. W. thence 2.4 mi. S. from Elkhorn Grove, near E. cor. secs. 13 and 24, T. 23 N., R. 6 E., 30 ft. S. and 10 ft. W. from junction of rd. E., on W. head wall of concrete culvert; chiseled square-----	746.84
Elkhorn Grove, 0.5 mi. W. thence 1.5 mi. S. from, near NE. cor. sec. 13, T. 23 N., R. 6 E., 27 ft. S. and 60 ft. W. from crossroads, in root on S. side of 10-in. cherry tree; copper nail and washer-----	747.18
Elkhorn Grove, 0.5 mi. W. thence 0.9 mi. S. from, about 0.1 mi. N. of quarter corner between secs. 7 and 12, T. 23 N., Rs. 6 and 7 E., 100 ft. S. of junction of rd. E., on W. head wall of concrete culvert; chiseled square-----	751.24

[Connects with line 4 in Forreston quadrangle]

# 1678 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

4. From road junction 1 mile north and 3 miles east from Coleta alternately east and south along roads to point 2 miles north and 0.9 mile west from Dixon (by G. W. Moore in 1930)

Coleta, 4.0 mi. E. thence 1.0 mi. N. from, near NE. cor. sec. 7, T. 22 N., R. 7 E., 35 ft. S. and 45 ft. W. from crossroads, in root on NW. side of twin maple tree; copper nail and washer-----	Feet 817.48
Coleta, 4.0 mi. E. of, near NE. cor. sec. 18, T. 22 N., R. 7 E., 320 ft. S. and 25 ft. W. from crossroads, 22 ft. NE. of State Highway 40, on S. end of N. head wall of concrete culvert under N.-S. rd.; chiseled square-----	744.80
Coleta, 4.0 mi. E. thence 1.0 mi. S. from, 3.0 mi. W. of Penrose, near NW. cor. sec. 20, T. 22 N., R. 7 E., 24 ft. S. and 50 ft. E. from crossroads, in concrete post; standard tablet stamped "T T 100 E 1929"---	752.687
Reference mark, 8 ft. N. and 31 ft. W. from tablet, on W. end of S. head wall of concrete culvert; chiseled square-----	752.49
Penrose, 2.0 mi. W. of, near SE. cor. sec. 17, T. 22 N., R. 7 E., in NW. angle of junction of T-rd. N., on W. end of N. head wall of large concrete culvert; chiseled square-----	671.06
Penrose, 1.0 mi. W. of, near SE. cor. sec. 16, T. 22 N., R. 7 E., 45 ft. N. and 40 ft. W. from crossroads, at schoolhouse, 3 ft. SE. of pump, on SE. end of lower step; chiseled square-----	743.54
Penrose, near NW. cor. sec. 23, T. 22 N., R. 7 E., 20 ft. S. and 30 ft. E. from crossroads, at residence of Floyd Tillman, in NW. corner of lawn, in concrete post; standard tablet stamped "T T 101 E 1929"---	716.980
Reference mark, 120 ft. SE. of tablet, 75 ft. S. and 145 ft. E. from crossroads, on NE. corner of pump platform; chiseled square-----	716.84
Penrose, 1.0 mi. E. of, near SW. cor. sec. 13, T. 22 N., R. 7 E., 35 ft. N. and 30 ft. E. from crossroads, in SW. corner of schoolyard, in root on SW. side of 24-in. maple tree; copper nail and washer-----	777.44
Penrose, 2.0 mi. E. of, near Lee-Whiteside county line, near SW. cor. sec. 18, T. 22 N., R. 8 E., at offset crossroads, 155 ft. N. and 25 ft. E. from junction of rd. E., in fence, in root on SE. side of 16-in. wild-cherry tree; copper nail and washer-----	788.44
Penrose, 3.3 mi. E. of, 1.2 mi. S. and 3.2 mi. W. from Woosung, at Mound School, 0.25 mi. E. of NW. cor. sec. 20, T. 22 N., R. 8 E., 40 ft. S. and 85 ft. E. from crossroads, 1 ft. N. of schoolyard fence, 2 ft. E. of N. walk, in concrete post; standard tablet stamped "T T 102 E 1929"-----	752.470
Reference mark, 80 ft. NW. of tablet, 27 ft. N. and 42 ft. E. from crossroads, 3 ft. S. and 12 ft. E. from fence corner, in root on SW. side of 24-in. maple tree; copper nail and washer-----	753.90
Woosung, 1.2 mi. S. and 2.5 mi. W. from, near N. cor. secs. 20 and 21, T. 22 N., R. 8 E., on S. side of rd., 5 ft. N. and 75 ft. W. from fence corner, 15 ft. W. of fence N. on N. side of rd., in root on NW. side of 10-in. walnut tree; copper nail and washer-----	772.42
Woosung, 1.2 mi. S. and 1.8 mi. W. from, 0.3 mi. W. of NE. cor. sec. 21, T. 22 N., R. 8 E., 360 ft. E. of junction of rd. NW., on S. parapet of E. abutment of concrete bridge; chiseled square-----	720.08
Woosung, 1.2 mi. S. and 1.0 mi. W. from, near N $\frac{1}{4}$ cor. sec. 22, T. 22 N., R. 8 E., 30 ft. S. and 155 ft. W. from crossroads, in root on NE. side of 30-in. elm tree; copper nail and washer-----	802.31

Woosung, 1.2 mi. S. of, 3.0 mi. N. and 3.2 mi. W. from Dixon, near S $\frac{1}{4}$ cor. sec. 14, T. 22 N., R. 8 E., 25 ft. N. and 22 ft. W. from junction of T-rd. S., in concrete post; standard tablet stamped "T T 103 E 1929"-----	<i>Feet</i> 794.973
Reference mark, 210 ft. S. and 8 ft. W. from tablet, 185 ft. S. and 30 ft. W. from rd. junction, in SE. corner of yard, in root outside picket fence, on E. side of 30-in. catalpa tree; copper nail and washer-----	797.87
Dixon, 3.8 mi. NW. of along State Highway 26, near N $\frac{1}{4}$ cor. sec. 24, T. 22 N., R. 8 E., 45 ft. SE. of crossroads, in fence corner, in root on NW. side of 25-in. elm tree; copper nail and washer-----	834.44
Dixon, 2.6 mi. NW. of along State Highway 26, 0.1 mi. E. of NW. cor. sec. 30, T. 22 N., R. 9 E., in SE. angle of crossroads, on E. end of S. head wall of concrete culvert under E.-W. rd.; chiseled square--	753.61

[Connects with line 1 in Dixon quadrangle]

5. From point 0.3 mile north of Stones north along Lee-Whiteside county-line road 0.5 mile, thence east along township-line road 6.8 miles to point 2.5 miles north and 2.8 miles east from Harmon (by G. W. Moore in 1930)

[Continued from Walnut quadrangle, line 3]

Stones, 0.8 mi. N. of, near cor. secs. 1, 6, 31, and 36, Tps. 20 and 21 N., Rs. 7 and 8 E., 21 ft. N. and 12 ft. W. from junction of E.-W. rd., 2 ft. S. of fence, in concrete post; standard tablet stamped "T T 98 E 1929" <sup>34</sup> -----	653.033
Reference mark, 185 ft. E. of county line, 33 ft. S. and 175 ft. E. from junction of T-rd. S., in root on N. side of 10-in. elder tree; copper nail and washer-----	647.85
Stones, 0.8 mi. N. thence 1.0 mi. E. from, near N. cor. secs. 5 and 6, T. 20 N., R. 8 E., 28 ft. S. and 655 ft. E. from Chicago & North Western Ry. crossing, 15 ft. E. of fence line N., 2 ft. N. and 25 ft. E. from gate to dwelling of Paul Steen, in root on NE. side of 15-in. box-elder tree; copper nail and washer-----	674.22
Stones, 0.8 mi. N. thence 1.5 mi. E. from, near N $\frac{1}{4}$ cor. sec. 5, T. 20 N., R. 8 E., at offset crossroads, 48 ft. S. and 36 ft. E. from junction of rd. S., 300 ft. W. of junction of rd. N., in root on NW. side of twin maple tree; copper nail and washer-----	661.79
Stones, 0.8 mi. N. thence 2.5 mi. E. from, near S $\frac{1}{4}$ cor. sec. 33, T. 21 N. R. 8 E., 26 ft. N. and 65 ft. W. from junction of T-rd. N., 195 ft. E. of fence line S., in root on S. side of 8-in. boxelder tree; copper nail and washer-----	669.16
Stones, 0.8 mi. N. thence 3.0 mi. E. from, 2.5 mi. N. thence 1.0 mi. W. from Harmon, near NE. cor. sec. 4, T. 20 N., R. 8 E., 33 ft. S. and 45 ft. W. from junction of T-rd. S., in field, in concrete post; standard tablet stamped "T T 99 E 1929"-----	675.942
Reference mark, 105 ft. E. of tablet, 32 ft. S. and 60 ft. E. from rd. junction, in root on NW. side of 31-in. cottonwood tree; copper nail and washer-----	674.46
Harmon, 2.5 mi. N. of, 60 ft. W. of junction of T-rd. N., at S. cor. secs. 34 and 35, T. 21 N., R. 8 E., 120 ft. E. of junction of T-rd. S. at N. cor. secs. 2 and 3, T. 20 N., R. 8 E., in NE. angle of crossroads, on E. end of N. head wall of concrete culvert; chiseled square-----	678.50

<sup>34</sup> In 1941 this bench mark was tied to U. S. C. & G. S. monel-metal rivet designated "R V 20," elevation 659.791 ft., and U. S. C. & G. S. standard disks stamped "C 46 1934," elevation 657.850 ft., and "F 48 1934," elevation 654.369 ft.

1680 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Harmon, 2.5 mi. N. thence 1.0 mi. E. from, near NW. cor. sec. 1, T. 20 N., R. 8 E., 255 ft. E. of junction of rd. S., 25 ft. S. and 175 ft. E. from junction of rd. N. at S. cor. secs. 35 and 36, T. 21 N., R. 8 E., in root on N. side of 40-in. cottonwood tree; copper nail and washer-----	<i>Feet</i> 682.60
Harmon, 2.5 mi. N. thence 2.0 mi. E. from, 6.5 mi. S. thence 1.0 mi. W. from Dixon, near NE. cor. sec. 1, T 20 N., R. 8 E., 150 ft. S. and 25 ft. W. from junction of N.-S. rd., in root on W. side of 9-in. boxelder tree; copper nail and washer-----	690.82
[Connects with line 4 in Dixon quadrangle]	

# YORKVILLE QUADRANGLE

[Latitude 41°30'–41°45'; longitude 88°15'–88°30']

DU PAGE, KANE, KENDALL, AND WILL COUNTIES

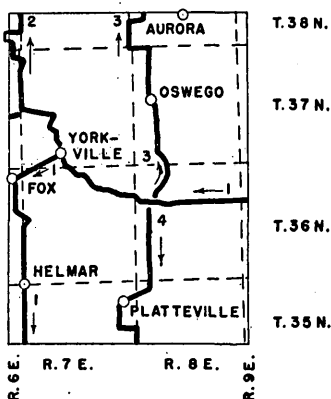


FIGURE 281.—Lines of leveling in Yorkville quadrangle.

1. From point 2.3 miles west of Plainfield northwest along road to Yorkville, thence southwest and south by way of Fox to point 3.1 miles south of Helmar (by S. R. Archer in 1923; portion of line between point 1.1 miles southwest of Yorkville and point 1.3 miles south of Fox releveled by E. W. Martin in 1934)

[Continued from Joliet quadrangle, line 9]

Plainfield, 2.7 mi. W. of, at Kendall-Will county line, near E. cor. secs. 12 and 13, T. 36 N., R. 8 E., on N. side of rd. at curve and junction of rd. S., 80 ft. E. of concrete bridge; standard iron post with bronze cap stamped "Prim Trav Sta No 1 1919 A 21" (destroyed in 1939 and replaced by standard tablet; see following description)-----	Feet 626.403
Plainfield, 2.7 mi. W. of, at Kendall-Will county line, near E. cor. secs. 12 and 13, T. 36 N., R. 8 E., 30 ft. N. of N. edge of pavement, 88 ft. E. of NE. corner and 85 ft. NE. of SE. corner of concrete bridge, in concrete post; standard tablet stamped "Prim Trav Sta No 1 1919 A 21 Reset 1939"-----	626.261
T. 36 N., R. 8 E., near NW. cor. sec. 13, in SE. angle of junction of T-rd. S., 10 ft. E. of fence corner, in fence line, in root on NE. side of westernmost of two willow trees standing together; copper nail and washer-----	655.20
T. 36 N., R. 8 E., 0.2 mi. E. of NW. cor. sec. 14, 30 ft. S. and 20 ft. W. from W. end of bridge over East Aux Sable Creek, in fence line, in root on NW side of 12-in. boxelder tree; copper nail and washer-----	624.75
T. 36 N., R. 8 E., near SW. cor. sec. 10, 30 ft. N. and 40 ft. E. from cross-roads, 20 ft. E. of fence corner, at fence line, in concrete post; standard tablet stamped "22 A 1923"-----	631.821

## 1682 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

Reference mark, in SW. angle of crossroads, 14 ft. W. of fence corner, on E. bank of stream, in trunk on N. side of 30-in. willow tree; copper nail and washer-----	<i>Feet</i> 630.48
T. 36 N., R. 8 E., near NW. cor. sec. 16, 260 ft. E. of section line, in NW. angle of junction of private rd. N., in fence corner, in root on SE. side of 24-in. elm tree; copper nail and washer-----	651.97
T. 36 N., R. 8 E., 0.15 mi. W. of N $\frac{1}{4}$ cor. sec. 17, 60 ft. S. and 30 ft. E. from rd. fork, on E. side of rd., at fence line, in root on S. side of forked cherry tree; copper nail and washer-----	650.60
T. 36 N., R. 8 E., near NE. cor. sec. 18, 150 ft. S. of junction of T-rd. S., on W. side of rd., on N. side of gate to front yard of dwelling, in root on SE. side of 30-in. maple tree; copper nail and washer-----	655.37
T. 36 N., R. 7 E., 0.25 mi. SW. of E $\frac{1}{4}$ cor. sec. 12, 230 ft. W. of angle in rd. and junction of private rd. NW., on top of S. wing wall of E. abutment of concrete bridge; chiseled square-----	627.95
T. 36 N., R. 7 E., 0.15 mi. S. of center of sec. 12, 45 ft. S. and 30 ft. W. from junction of T-rd. S., 20 ft. S. of fence corner, inside fence, in root on NE. side of double maple tree; copper nail and washer-----	654.88
T. 36 N., R. 7 E., 0.2 mi. NW. of E $\frac{1}{4}$ cor. sec. 11, on N. side of E.-W. rd., 5 ft. E. of junction of rd. SW., 14 ft. E. of fence corner; standard iron post with bronze cap stamped "23 A 1923" (destroyed in 1937 and replaced by standard tablet set 30 ft. N. and 2.378 ft. lower; see following description)-----	689.833
T. 36 N., R. 7 E., 0.2 mi. NW. of E $\frac{1}{4}$ cor. sec. 11, at junction of rd. SW., near N. right-of-way line of E.-W. rd., in concrete post; standard tablet stamped "23 A 1923" (replaces standard iron post; see preceding description)-----	687.455
Reference mark, 35 ft. S. and 35 ft. W. from junction of rd. SW., 20 ft. W. of fence corner, inside fence, in root on N. side of 24-in. maple tree; copper nail and washer-----	690.56
T. 36 N., R. 7 E., 0.25 mi. S. of NE. cor. sec. 10, 25 ft. N. and 40 ft. W. from junction of T-rd. S., at fence line, in root on S. side of 12-in. hackberry tree; copper nail and washer-----	715.10
T. 36 N., R. 7 E., 0.23 mi. W. of center of sec. 3, 85 ft. S. and 25 ft. E. from junction of rd. SE., in yard in front of W. side of dwelling, in root 4-in. underground on W. side of 6-in. maple tree; copper nail and washer-----	710.91
T. 37 N., R. 7 E., 0.18 mi. W. of S $\frac{1}{4}$ cor. sec. 33, 60 ft. N. and 25 ft. W. from crossing of Fox & Illinois Union electric ry., on W. right-of-way line, in root on E. side of 36-in. maple tree; copper nail and washer-----	628.99
Yorkville, at SW. corner of yard of Kendall County courthouse, in corner formed by sidewalk intersection, in concrete post; standard tablet stamped "24 A 1923" (recovered by U. S. C. & G. S. in 1935)-----	642.994
Reference mark, 5 ft. N. and 5 ft. E. from tablet, in root on S. side of 36-in. maple tree; copper nail and washer-----	643.62
Yorkville, 1.1 mi. SW. of courthouse, near SE. cor. sec. 31, T. 37 N., R. 7 E., 260 ft. SW. of section-line fence, 200 ft. E. of dwelling of J. R. Burk, 28 ft. E. of fence corner, on NW. side of rd., in concrete post; aluminum tablet stamped "Prim Trav Sta No 95 S 1922 A 25"-----	649.735

Yorkville, 1.8 mi. SW. of, in NW¼ sec. 6, T. 36 N., R. 7 E., 0.19 mi. E. of dwelling standing on S. side of rd., on top of S. head wall of concrete culvert under rd.; chiseled square (established in 1934)-----	<i>Feet</i> 642.52
Yorkville, 1.9 mi. SW. of, 1.0 mi. NE. of Fox, in NW¼ sec. 6, T. 36 N., R. 7 E., 0.23 mi. NE. of junction of T-rd. SE., 300 ft. E. of dwelling standing on S. side of rd., on top of S. head wall of concrete culvert; chiseled square-----	648.98
Fox, 20 ft. N. and 25 ft. W. from rd. fork, near center of sec. 1, T. 36 N., R. 6 E., on W. side of N-S. rd., in root on S. side of 12-in. catalpa tree; copper nail and washer-----	662.08
Fox, 20 ft. N. and 20 ft. W. from rd. fork, near center of sec. 1, T. 36 N., R. 6 E., on W. side of N-S. rd., 2 ft. E. of fence, in concrete post; U. S. C. & G. S. and State Survey standard disk stamped "5 1 1934" (set in 1934)-----	662.691
Fox, 1.0 mi. S. of, 0.11 mi. S. of center of sec. 12, T. 36 N., R. 6 E., on E. side of rd., about 500 ft. S. of creek, at fence line, in root on W. side of large forked apple tree; copper nail and washer <sup>35</sup> -----	683.49
Fox, 1.3 mi. S. of, near N¼ cor. sec. 13, T. 36 N., R. 6 E., 40 ft. S. and 20 ft. E. from crossroads, 14 ft. S. of fence corner; standard iron post with bronze cap stamped "Prim Trav Sta No 96 S 1922 A 26"-----	743.102
Reference mark, 130 ft. E. of crossroads, on top of S. head wall of concrete culvert; chiseled square-----	744.30
Fox, 2.5 mi. SE. of, 3.2 mi. N. of Helmar, near center of SW¼ sec. 18, T. 36 N., R. 7 E., 25 ft. N. and 25 ft. W. from junction of rd. SW., at fence corner, in root on W. side of 24-in. oak tree; copper nail and washer-----	752.68
Helmar, 2.0 mi. N. of, at Needham School, near SW. cor. sec. 19, T. 36 N., R. 7 E., in NE. angle of crossroads, at SW. corner of schoolyard, in fence corner, in root on SW. side of 24-in. boxelder tree; copper nail and washer-----	725.02
Helmar, 1.0 mi. N. of, near SW. cor. sec. 30, T. 36 N., R. 7 E., 40 ft. N. and 20 ft. E. from junction of T-rd. E., 20 ft. N. of fence corner; standard iron post with bronze cap stamped "Prim Trav Sta No 97 S 1922 A 27"-----	705.962
Reference mark, 45 ft. S. and 25 ft. E. from rd. junction, 18 ft. S. of fence corner, inside fence, in root on E. side of 42-in. elm tree; copper nail and washer-----	706.57
Helmar, in NW. angle of crossroads, on top at outside corner of concrete walk around church; chiseled square-----	709.74
Helmar, 0.5 mi. S. of, near E¼ cor. sec. 1, T. 35 N., R. 6 E., in NW. angle of crossroads, in fence corner, in root 6 in. underground on SW. side of 8-in. hedge tree; copper nail and washer-----	700.70
Helmar, 2.5 mi. S. of, at Fourth Ward School, near E¼ cor. sec. 13, T. 35 N., R. 6 E., in SW. angle of crossroads, 5 ft. W. of fence corner; standard iron post with bronze cap stamped "Prim Trav Sta No 10 1912 A 28"-----	684.332
Reference mark, in NW. angle of crossroads, at entrance to schoolhouse, on top of E. end of lower concrete step; chiseled square----	685.11

<sup>35</sup> In 1934 it was reported that the root was decayed and nail was loose.

# 1684 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

[Continued in Morris quadrangle, line 6]

2. From Yorkville northwest and north along roads to point 0.5 mile south and 2.3 miles west from Sugar Grove (by S. R. Archer in 1923; releveled from northwest corner sec. 19, T. 37 N., R. 7 E., by H. S. Hall in 1941)

Yorkville, at SE. corner of intersection of Bridge and Van Emmons Streets, at entrance to Yorkville National Bank, on W. side of steps, on top of NW. corner of capstone of buttress; chiseled square-----	<i>Feet</i> 598.74
Yorkville, at highway bridge over Fox River, on island in center of river; top of E. (upstream) end of N. abutment of S. span (Rivers and Lake Comm. B. M.)-----	583.420
Bristol, at NW. corner of intersection of Church and Center Streets, at main entrance to school building, on top of E. end of lower step; chiseled square-----	629.66
Bristol, 0.5 mi. N. and 0.5 mi. W. from, in NE $\frac{1}{4}$ sec. 29, T. 37 N., R. 7 E., on top of S. end of parapet of E. concrete abutment of highway bridge over Blackberry Creek; chiseled square-----	610.44
T. 37 N., R. 7 E., 0.2 mi. SW. of N $\frac{1}{4}$ cor. sec. 29, 20 ft. S. of junction of rd. NE., 11 ft. S. of S. edge of pavement, in line with center of rd. NE.; standard iron post with bronze cap stamped "Prim Trav Sta No 94 S 1922 A 29"-----	634.148
Reference mark, in E. angle of rd. junction, on top of angular head wall of concrete culvert under rd. NE.; chiseled square-----	636.53
T. 37 N., R. 7 E., 0.2 mi. NE. of center of sec. 20, at N. side of triangular grass plot in center of rd. fork, in root on W. side of 36-in. elm tree; copper nail and washer-----	645.72
T. 37 N., R. 7 E., near center of NE $\frac{1}{4}$ sec. 19, 135 ft. W. of junction of rd. N., on S. side of rd., in front of dwelling, 20 ft. W. of 15-in. poplar tree, in root on N. side of 10-in. maple tree; copper nail and washer-----	647.23
T. 37 N., R. 7 E., near NW. cor. sec. 19, 25 ft. S. and 50 ft. E. from cross-roads, 25 ft. E. of fence corner, in concrete post; aluminum tablet stamped "Prim Trav Sta No 93 S 1922 A 30" <sup>36</sup> -----	650.137
Reference mark, 10 ft. N. and 24 ft. W. from tablet, on S. head wall of concrete culvert; chiseled square (established in 1936)-----	650.42
T. 37 N., R. 6 E., near SE. cor. sec. 12, 30 ft. N. and 30 ft. W. from junction of T-rd. E., in field, in root on SE. side of 24-in. maple tree; copper nail and washer <sup>37</sup> -----	653.47
T. 37 N., R. 7 E., 0.25 mi. W. of center of sec. 6, 175 ft. SW. of junction of rd. SW., on SE side of rd., in root on W. side of 30-in. hackberry tree; copper nail and washer-----	682.13
T. 37 N., R. 6 E., near center of sec. 1, 15 ft. N. and 35 ft. E. from junction of rd. N., 15 ft. E. of fence corner; standard iron post with bronze cap stamped "Prim Trav Sta No 92 S 1922 A 31"-----	677.281
T. 38 N., R. 6 E., near center of sec. 36, 25 ft. S. and 30 ft. E. from right-angle bend in rd. W., on E. side of rd. S., in root on W. side of 12-in. elm tree; copper nail and washer (not recovered in 1941)---	678.02

[Jogs into Plano quadrangle, line 1]

<sup>36</sup> In 1936 this bench mark was tied to U. S. C. & G. S. standard disk stamped "Z 49 1934," elevation 649.156 ft. At that time it was reported to be 0.1 ft. below surface of ground.

<sup>37</sup> In 1941 it was reported that the tree had blown down.

T. 38 N., R. 6 E., near NE. cor. sec. 36, at junction of T-rd. N., 80 ft. S. of center line of rd. E., in line with center of rd. W., 2 ft. W. of fence line S., on E. side of short jog in rd. to N., in concrete post; aluminum tablet stamped "Prim Trav Sta No 91 S 1922 A 32"-----	Feet 696.458
Reference mark, in NE. angle of junction of rd. N., 10 ft. N. and 10 ft. E. from fence corner, in field, in root on NW. side of twin oak tree; copper nail and washer (not recovered in 1941)-----	698.02
Sugar Grove, 0.6 mi. S. and 2.3 mi. W. from, 0.13 mi. S. of NE. cor. sec. 25, T. 38 N., R. 6 E., on W. side of rd., 15 ft. N. of front of dwelling, 3 ft. E. of yard fence, on S. side of gate, in root on W. side of 24-in. oak tree; copper nail and washer (not recovered in 1941)----	703.76
[Connects with line 7 in Geneva quadrangle]	
3. From road junction near quarter corner between secs. 8 and 17, T. 36 N., R. 8 E., generally north along roads by way of Oswego to point about 2 miles southwest of Aurora (by S. R. Archer in 1923)	
T. 36 N., R. 8 E., in NE $\frac{1}{4}$ sec. 8, 0.5 mi. SW. of Cherry School, on NW. side of rd., on N. bank of creek, in root on NE. side of 36-in. elm tree; copper nail and washer-----	687.16
T. 36 N., R. 8 E., near E $\frac{1}{4}$ cor. sec. 5, 0.3 mi. N. of Cherry School, 35 ft. N. and 40 ft. W. from junction of T-rd. E., 8 ft. W. of fence, in field, in root on E. side of 24-in. maple tree; copper nail and washer-----	746.81
T. 37 N., R. 8 E., near center of sec. 32, 3.0 mi. S. of Oswego, 25 ft. S. and 40 ft. E. from rd. junction, 14 ft. E. of fence corner, in concrete post; standard tablet stamped "35 A 1923"-----	717.379
Reference mark, 250 ft. N. of rd. junction, on E. head wall of concrete culvert; chiseled square-----	715.17
Oswego, 2.0 mi. S. of, near center of sec. 29, T. 37 N., R. 8 E., on W. side of rd., in fence corner opposite T-rd. E., in root on NE. side of 36-in. maple tree; copper nail and washer-----	656.88
Oswego, 1.3 mi. S. of, 0.1 mi. N. of S $\frac{1}{4}$ cor. sec. 20, T. 37 N., R. 8 E., 75 ft. N. of front of dwelling of J. O. Pahaly, on E. side of rd., on S. side of driveway, inside of fence, in root on W. side of 24-in. maple tree; copper nail and washer-----	658.31
Oswego, 0.6 mi. SE. of, 0.15 mi. S. of N $\frac{1}{4}$ cor. sec. 20, T. 37 N., R. 8 E., 110 ft. S. of junction of rd. SE., on E. side of N.-S. rd., 15 ft. S. of fence corner, in field, in root 6-in. underground on W. side of small forked cherry tree; copper nail and washer-----	655.67
Oswego, in S. part of town, on W. side of street, on top of S. corner of stone foundation of SE. pier of city water tower; chiseled square.	653.54
Oswego, at NE. corner of intersection of Jackson and Madison Streets, at SW. corner of schoolyard, in corner of sidewalk intersection, in concrete post; standard tablet stamped "33 A 1923"-----	645.769
Oswego, at SW. corner of intersection of Main and Washington Streets, at corner entrance to brick office building of John Herren, on S. end of stone doorsill; chiseled square-----	633.55
Oswego, at NW. end of highway and trolley bridge over Fox River, on N. end of bridge seat of NW. stone abutment; chiseled square----	610.16
Oswego, at NW. end of highway and trolley bridge over Fox River, on N. corner at W. end of N. wing wall of NW. stone abutment; chiseled square-----	610.52

Oswego, 0.9 mi. N. of, near NW. cor. sec. 17, T. 37 N., R. 8 E., 25 ft. S. and 60 ft. W. from crossroads, 35 ft. W. of fence corner, on S. side of rd. W., inside fence, in root on E. side of 24-in. walnut tree; copper nail and washer-----	<i>Feet</i> 638.13
Oswego, 1.6 mi. N. of, 0.15 mi. NE. of W $\frac{1}{4}$ cor. sec. 8, T. 37 N., R. 8 E., 125 ft. N. of junction of rd. W., on W. side of rd., in field, in root on E. side of 30-in. oak tree; copper nail and washer-----	651.81
Oswego, 2.4 mi. N. of, 0.15 mi. SE. of W $\frac{1}{4}$ cor. sec. 5, T. 37 N., R. 8 E., 150 ft. S. of junction of Chicago, Aurora & Elgin electric railway, opposite and 30 ft. N. of concrete highway property line post 196-12, 15 ft. E. of trolley track, on E. side of highway, in SW. corner of yard of dwelling, in root on S. side of 12-in. oak tree; copper nail and washer-----	651.91
Oswego, 2.9 mi. N. of, 480 ft. S. of Kane-Kendall county line, 0.1 mi. S. and 0.2 mi. E. from NW. cor. sec. 5, T. 37 N., R. 8 E., on W. side of old rd., on N. side of concrete highway, in root on W. side of 48-in. oak tree; copper nail and washer-----	657.42
Oswego, 3.0 mi. N. and 1.0 mi. W. from, near NE. cor. sec. 1, T. 37 N. R. 7 E., at Kane-Kendall county line, in SW. angle of junction of T-rd. S., 2 ft. S. of fence corner, in concrete post; standard tablet stamped "34 A 1923"-----	667.214
Reference mark, 0.22 mi. W. of tablet, in NW. angle of junction of T-rd. N., in fence corner, in root on E. side of 36-in. maple tree; copper nail and washer-----	662.17
Oswego, 3.5 mi. N. and 1.2 mi. W. from, near E $\frac{1}{4}$ cor. sec. 36, T. 38 N., R. 7 E., 110 ft. N. of junction of T-rd. E., on W. side of rd., inside fence, in root on SW. side of 12-in. elm tree; copper nail and washer-----	661.74
Oswego, 4.5 mi. N. and 1.2 mi. W. from, near Maple Grove School, near W $\frac{1}{4}$ cor. sec. 30, T. 38 N., R. 8 E., on N. side of rd., at junction of range-line rd. S., in SW. corner of schoolyard, 20 ft. N. and 20 ft. E. from fence corner, in root on S. side of 18-in. maple tree; copper nail and washer-----	671.17
Maple Grove School, 0.8 mi. E. of, 2.4 mi. SW. of Aurora, near W $\frac{1}{4}$ cor. sec. 29, T. 38 N. R. 8 E., 220 ft. N. of junction of T-rd. N., on E. side of rd., in root on W. side of 24-in. cherry tree; copper nail and washer-----	667.77

[Connects with line 8 in Geneva quadrangle]

4. From road junction at north corner secs. 17 and 18, T. 36 N., R. 8 E., along roads alternately south and west by way of Platteville to point 2.1 miles south and 0.7 mile east from Platteville (by G. F. Williams in 1923; leveled twice)	
T. 36 N., R. 8 E., near SW. cor. sec. 17, 0.4 mi. E. of Union School, 65 ft. E. of crossroads, on N. side of E-W. rd., 20 ft. E. of fence corner, in concrete post; standard tablet stamped "1 W 1923"-----	659.648
Reference mark, 180 ft. W. of crossroads, on N. side of E-W. rd., in root on SE. side of 18-in. tree, easternmost of four maple trees in front of dwelling; copper nail and washer-----	662.28
T. 36 N., R. 8 E., near NW. cor. sec. 29, 90 ft. S. of crossroads, on E. side of rd., 50 ft. S. of fence corner, in root on NW. side of 24-in. maple tree; copper nail and washer-----	624.81
T. 36 N., R. 8 E., near SW. corner sec. 29, at Wyne School, 125 ft. E. of crossroads, on N. side of E-W. rd., 60 ft. S. of schoolhouse, in root on SW. side of 15-in. maple tree; copper nail and washer-----	608.71

T. 35 N., R. 8 E., 0.05 mi. S. of NW. cor. sec. 5, 20 ft. N. of driveway to dwelling, 15 ft. S. of fence, on N. side of yard, 10 ft. E. of fence on W. side of yard, in root on W. side of 12-in. elm tree, northernmost in row of trees; copper nail and washer-----	<i>Feet</i> 596.17
Platteville, 1.9 mi. NE. of, near W $\frac{1}{4}$ cor. sec. 5, T. 35 N., R. 8 E., 20 ft. E. of junction of rd. SW., on E. side of rd., 30 ft. S. of fence corner, in concrete post; standard tablet stamped "2 W 1923"-----	590.724
Platteville, 1.3 mi. NE. of, in SW $\frac{1}{4}$ cor. sec. 6, T. 35 N., R. 8 E., on NW. side of rd., 125 ft. E. of fence, in root on SW. side of 12-in. cottonwood tree; copper nail and washer-----	596.53
Platteville, 0.5 mi. NE. of, near quarter corner between secs. 1 and 12, T. 35 N., R. 7 E., on top of parapet at NW. corner of concrete highway bridge; chiseled square-----	590.96
Platteville, 0.2 mi. NE. of crossroads, on SE. side of street, in front of store, 15 ft. E. of entrance, 3 ft. N. of NE. corner of building, on N. end of lower step at E. end of concrete platform; chiseled square---	600.92
Platteville, 0.8 mi. S. of crossroads, near cor. secs. 11, 12, 13, and 14, T. 35 N., R. 7 E. on E. end of S. abutment of masonry bridge over West Aux Sable Creek; chiseled square-----	591.92
Platteville, 1.3 mi. S. of, near W $\frac{1}{4}$ cor. sec. 13, T. 35 N., R. 7 E., 20 ft. S. and 40 ft. E. from crossroads, 10 ft. E. of fence corner, 3 ft. N. of hedgerow; standard iron post with bronze cap stamped "Prim Trav Sta No 25 1914 W 3" <sup>38</sup> -----	597.336
Reference mark 400 ft. S. of crossroads, on W. side of N.-S. rd., 3 ft. W. of gatepost, in yard of old dwelling, in root on SE. side of 20-in. elm tree; copper nail and washer-----	596.77
Platteville, 1.3 mi. S. thence 1.0 mi. E. from, near E $\frac{1}{4}$ cor. sec. 13, T. 35 N., R. 7 E., 125 ft. N. of crossroads, on W. side of rd., 70 ft. N. of NE. corner of building, in root on W. side of 10-in. cottonwood tree, sixth tree from crossroads in row of seven; copper nail and washer--	593.09

[Continued in Morris quadrangle, line 7]

<sup>38</sup> In 1933 this bench mark was reported destroyed.

## SUPPLEMENTAL ELEVATIONS

The following table shows altitudes of well-known features in Northern Illinois, such as summits, water surfaces, and tops of rails at railroad stations, as assembled from the topographic maps and records of the Geological Survey and from other sources. These altitudes, with the exception of some which were determined by spirit leveling along railroads, were obtained by barometric and vertical-angle measurements. The figures given are in accord with the latest information, but they are only approximate and should not be used for accurate work.

*Supplemental elevations in northern Illinois*

Location	Quadrangle	County	Elevation (feet)
Agnew.....	Morrison.....	Whiteside.....	654
Alworth, I. C. R. R.....	Kings.....	Winnebago.....	904
Amboy, I. C. R. R.....	Amboy.....	Lee.....	745
Ament Corners.....	Yorkville.....	Kendall.....	706
Annawan, C. R. I. & P. Ry.....	Annawan.....	Henry.....	631
Argyle.....	Belvidere.....	Boone-Winnebago.....	880
Atkinson, C. R. I. & P. Ry.....	Geneseo.....	Henry.....	652
Baileyville, I. C. R. R.....	Forreston.....	Ogle.....	924
Ballou.....	Wilmington.....	Will.....	600
Bangs Lake.....	Grays Lake.....	Lake.....	773
Beecher, C. & E. I. R. R.....	Crete.....	Will.....	723
Benton Mound.....	Elizabeth.....	Jo Daviess.....	1,220
Big Rock, C. B. & Q. R. R.....	Sycamore.....	Kane.....	709
Blaine.....	Belvidere.....	Boone.....	988
Blodgett, C. & A. R. R.....	Wilmington.....	Will.....	522
Bluff Lake.....	Grays Lake.....	Lake.....	736
Brandenburg Corners.....	Annawan.....	Henry.....	841
Brisbane.....	Peotone.....	Will.....	687
Bristol, C. B. & Q. R. R.....	Yorkville.....	Kendall.....	646
Buda, C. & N. W. Ry.....	Buda.....	Bureau.....	722
Buffalo Prairie.....	Edgington.....	Rock Island.....	754
Butlers Lake.....	Waukegan.....	Lake.....	694
Caledonia.....	Belvidere.....	Boone.....	938
Calumet Lake.....	Calumet.....	Cook.....	579
Cambridge, C. R. I. & P. Ry.....	Geneseo.....	Henry.....	807
Carbon Cliff, C. R. I. & P. Ry.....	Orion.....	Rock Island.....	576
Cedar Bluff.....	Buda.....	Bureau.....	620
Cedar Lake.....	Grays Lake.....	Lake.....	790
Cedar Point.....	La Salle.....	Putnam.....	659
Central.....	Morris.....	Kendall.....	620
Chana, C. B. & Q. R. R.....	Rochelle.....	Ogle.....	782
Channahon.....	Wilmington.....	Will.....	525
Channel Lake.....	Grays Lake.....	Lake.....	736
Charles Mound (highest point in the State thus far determined).....	Darlington.....	Jo Daviess.....	1,241
Chemung, C. & N. W. Ry.....	Harvard.....	McHenry.....	865
Cherry.....	La Salle.....	Bureau.....	680
Cherry Valley, C. & N. W. Ry.....	Kirkland.....	Winnebago.....	737
Chicago Ridge.....	Des Plaines.....	Cook.....	600
Cloverdale, I. C. R. R.....	Wheaton.....	Du Page.....	764
Coal City.....	Morris.....	Grundy.....	570
Coleta.....	Morrison.....	Whiteside.....	815
Colona, C. R. I. & P. Ry.....	Orion.....	Henry.....	590
Colvin Park, I. C. R. R.....	Kirkland.....	De Kalb.....	855
Compton, C. B. & Q. R. R.....	Mendota.....	Lee.....	970
Cortland, C. & N. W. Ry.....	Sycamore.....	De Kalb.....	897
Creston, C. & N. W. Ry.....	De Kalb.....	Ogle.....	903
Crete, C. & E. I. R. R.....	Crete.....	Will.....	724
Crooked Lake.....	Grays Lake.....	Lake.....	767
Crystal Lake.....	Elgin.....	McHenry.....	891
Danway.....	Marseilles.....	La Salle.....	690
Deep Lake.....	Grays Lake.....	Lake.....	778
Deer Grove, C. B. & Q. R. R.....	Walnut.....	Whiteside.....	653
Deer Lake.....	Grays Lake.....	Lake.....	768
Defiance Lake.....	Grays Lake.....	McHenry.....	736
Devils Backbone.....	Dixon.....	Ogle.....	900

## 1690 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

*Supplemental elevations in northern Illinois—Continued*

Location	Quadrangle	County	Elevation (feet)
Diamond Lake.....	Barrington-Grays Lake.	Lake.....	739
Dimmick.....	La Salle.....	La Salle.....	664
Divine.....	Morris.....	Grundy.....	527
Dixon, C. & N. W. Ry.....	Dixon-Woosung.....	Lee.....	725
Dover.....	Hennepin.....	Bureau.....	740
Druce Lake.....	Grays Lake.....	Lake.....	763
Drummond.....	Wilmington.....	Will.....	539
Duck Lake.....	Grays Lake.....	Lake.....	739
Dunns Lake.....	Grays Lake.....	Lake.....	737
Dygerts Mound.....	Galena.....	Jo Daviess.....	1,015
East Moline, C. R. I. & P. Ry.....	Le Claire.....	Rock Island.....	578
Eldena, I. C. R. R.....	Dixon.....	Lee.....	805
Elmerville.....	Elizabeth.....	Jo Daviess.....	722
Elwood.....	Wilmington.....	Will.....	640
Eola.....	Wheaton.....	Du Page.....	714
Fairdale, C. M. St. P. & P. R. R.....	Kirkland.....	De Kalb.....	782
Fairhaven.....	Morrison.....	Carroll.....	795
Fish Lake.....	Grays Lake.....	Lake.....	751
Flag Center, C. B. & Q. R. R.....	Rochelle.....	Ogle.....	830
Forreston, I. C. R. R.....	Forreston.....	Ogle.....	931
Fourth Lake.....	Grays Lake.....	Lake.....	759
Fox Lake.....	Grays Lake.....	Lake.....	736
Frankfort, M. C. R. R.....	Peotone.....	Will.....	754
Fulton, C. B. & Q. R. R.....	Clinton.....	Whiteside.....	587
Fulton, high water June 1880.....	Clinton.....	Whiteside.....	587
Gages Lake.....	Grays Lake-Waukegan.	Lake.....	778
Galt, C. & N. W. Ry.....	Morrison.....	Whiteside.....	640
Geneseo, C. R. I. & P. Ry.....	Geneseo.....	Henry.....	645
Grand Detour.....	Dixon.....	Ogle.....	680
Granger, I. C. R. R.....	Wheaton.....	Du Page.....	785
Grass Lake.....	Grays Lake.....	Lake.....	736
Grassy Lake.....	Barrington.....	Lake.....	757
Gravel Hill.....	Buda.....	Bureau.....	840
Grays Lake.....	Grays Lake.....	Lake.....	787
Green River, C. R. I. & P. Ry.....	Orion.....	Henry.....	584
Griswold Lake.....	Grays Lake.....	McHenry.....	733
Gurnee.....	Waukegan.....	Lake.....	679
Hahnman, C. & N. W. Ry.....	Walnut.....	Whiteside.....	657
Haldane, I. C. R. R.....	Forreston.....	Ogle.....	905
Hallowayville.....	Hennepin.....	Bureau.....	661
Hamlet.....	Milan.....	Mercer.....	807
Harmon, C. B. & Q. R. R.....	Walnut.....	Lee.....	674
Harmony.....	Genoa.....	McHenry.....	924
Hastings Lake.....	Grays Lake.....	Lake.....	765
Henkel, I. C. R. R.....	Mendota.....	Lee.....	852
Herbert, C. & N. W. Ry.....	Kirkland.....	Boone.....	868
Hill Fifteen.....	McHenry.....	McHenry.....	900
Hinkley, C. B. & Q. R. R.....	Sycamore.....	De Kalb.....	740
Holcomb, C. G. W. Ry.....	Kings.....	Ogle.....	827
Honey Lake.....	Barrington.....	Lake.....	782
Hooppole.....	Prophetstown.....	Henry.....	610
Horseshoe Mound.....	Galena.....	Jo Daviess.....	1,065
Hudson Mound.....	Elizabeth.....	Jo Daviess.....	1,170
Hunter.....	Belvidere.....	Boone.....	962
Huntley Lake.....	Grays Lake.....	Lake.....	757

*Supplemental elevations in northern Illinois—Continued*

Location	Quadrangle	County	Elevation (feet)
Illinois City.....	Edgington.....	Rock Island.....	767
Indian Hill.....	Annawan.....	Bureau.....	810
Indian Hill.....	Geneseo.....	Henry.....	672
Irene, I. C. R. R.....	Kirkland.....	Boone.....	821
Johnson Slough.....	Riverside.....	Du Page.....	703
Johnsons Mound.....	Geneva.....	Kane.....	900
Kaneville.....	Sycamore.....	Kane.....	790
Kankakee Bluffs.....	Wilmington.....	Will.....	600
Kasbeer, C. B. & Q. R. R.....	Amboy.....	Bureau.....	746
Kent.....	Lena.....	Stephenson.....	897
Kentland.....	Yorkville.....	Kendall.....	671
Ladd.....	La Salle.....	Bureau.....	645
La Fox, C. & N. W. Ry.....	Geneva.....	Kane.....	803
Lake Catherine.....	Grays Lake.....	Lake.....	736
Lake Marie.....	Grays Lake.....	Lake.....	736
Lake Michigan.....			<sup>1</sup> 579.72
Lake Zurich.....	Barrington.....	Lake.....	843
La Moille, C. B. & Q. R. R.....	Amboy.....	Bureau.....	803
Langley, C. & N. W. Ry.....	Buda.....	Bureau.....	658
Leahy Hill.....	Waukegan.....	Lake.....	760
Lee, C. B. & Q. R. R.....	De Kalb.....	Lee.....	939
Leland, C. B. & Q. R. R.....	Earlville.....	La Salle.....	705
Lightsville.....	Oregon.....	Ogle.....	788
Lily Lake.....	Grays Lake.....	McHenry.....	748
Lily Lake.....	McHenry.....	McHenry.....	916
Lindenwood, C. G. W. Ry.....	Kings.....	Ogle.....	768
Lisbon Center.....	Yorkville.....	Kendall.....	645
Long Lake.....	Grays Lake.....	Lake.....	739
Loon Lake.....	Grays Lake.....	Lake.....	773
Lorenzo, A. T. & S. F. Ry.....	Wilmington.....	Will.....	534
Lost Mound.....	Miles.....	Jo Daviess.....	845
Lyndon, C. B. & Q. R. R.....	Prophetstown.....	Whiteside.....	614
Lynn, C. B. & Q. R. R.....	Orion.....	Henry.....	732
McCullom Lake.....	McHenry.....	McHenry.....	757
McGinnes Slough.....	Des Plaines.....	Cook.....	674
McGirr.....	De Kalb.....	De Kalb.....	889
Malden.....	Hennepin.....	Bureau.....	700
Malvern.....	Morrison.....	Whiteside.....	698
Manhattan.....	Peotone.....	Will.....	682
Manlius, C. & N. W. Ry.....	Buda.....	Bureau.....	705
Maple Park, C. & N. W. Ry.....	Sycamore.....	Kane.....	863
Matherville.....	Milan.....	Mercer.....	760
Mays Lakes (east).....	Riverside.....	Du Page.....	699
Mays Lakes (west).....	Riverside.....	Du Page.....	711
Mendota, C. B. & Q. R. R.....	Mendota.....	La Salle.....	750
Meriden.....	Mendota.....	La Salle.....	733
Milburn.....	Grays Lake.....	Lake.....	744
Millbrook, C. B. & Q. R. R.....	Plano.....	Kendall.....	620
Milledgeville, C. B. & Q. R. R.....	Morrison.....	Carroll.....	758
Millington, C. B. & Q. R. R.....	Plano.....	Kendall.....	565
Millsdale.....	Wilmington.....	Will.....	521
Mineral, C. R. I. & P. Ry.....	Annawan.....	Bureau.....	640
Minooka.....	Morris.....	Grundy.....	614
Mokena, C. R. I. & P. Ry.....	Des Plaines.....	Cook.....	719

<sup>1</sup> Survey of northern and northwestern lakes: U. S. Lake Survey Bull. 51, April 1942. The elevation is referred to mean tide at New York and expressed in terms of the adjusted levels of 1935. The figures given represent the mean stages of water for the period 1900-1941.

# 1692 SPIRIT LEVELING IN ILLINOIS—PART 4, NORTHERN ILLINOIS

## Supplemental elevations in northern Illinois—Continued

Location	Quadrangle	County	Elevation (feet)
Moline, C. R. I. & P. Ry.....	Davenport-Le Claire.....	Rock Island.....	576
Monroe, I. C. R. R. ....	Crete-Peotone.....	Will.....	803
Morrison, C. & N. W. Ry.....	Morrison.....	Whiteside.....	670
Morristown.....	Orion.....	Henry.....	734
Morseville.....	Lena.....	Jo Daviess.....	864
Mount Sumner.....	Elizabeth.....	Jo Daviess.....	1, 140
Munger, I. C. R. R. ....	Wheaton.....	Du Page.....	782
Nelson, C. & N. W. Ry.....	Woosung.....	Lee.....	655
Neponset, C. B. & Q. R. R. ....	Annawan.....	Bureau.....	827
New Lebanon.....	Genoa.....	De Kalb.....	846
New Lenox, C. R. I. & P. Ry.....	Des Plaines.....	Will.....	628
Normandy, C. & N. W. Ry.....	Walnut.....	Bureau.....	653
North Dixon, I. C. R. R. ....	Dixon.....	Lee.....	705
Ohio, C. B. & Q. R. R. ....	Amboy.....	Bureau.....	917
Ophiem, C. B. & Q. R. R. ....	Orion.....	Henry.....	708
Orion, C. B. & Q. R. R. ....	Orion.....	Henry.....	748
Oseo, C. R. I. & P. Ry.....	Orion.....	Henry.....	773
Owls Head.....	Hennepin.....	Bureau.....	620
Pavilion.....	Yorkville.....	Kendall.....	764
Paw Paw, C. B. & Q. R. R. ....	Earlville.....	Lee.....	928
Pearl City.....	Lena.....	Stephenson.....	823
Perryville, I. C. R. R. ....	Kirkland.....	Winnebago.....	767
Petite Lake.....	Grays Lake.....	Lake.....	736
Pilot Knob.....	Galena.....	Jo Daviess.....	1, 000
Pistakee Lake.....	Grays Lake.....	Lake-McHenry.....	735
Plano, C. B. & Q. R. R. ....	Plano.....	Kendall.....	649
Pleasant Hill.....	Elizabeth.....	Jo Daviess.....	965
Polo, I. C. R. R. ....	Woosung.....	Ogle.....	869
Poplar Grove.....	Belvidere.....	Boone.....	900
Preemption.....	Milan.....	Mercer.....	809
Providence.....	Buda.....	Bureau.....	925
Redhead Lake.....	Grays Lake.....	Lake.....	738
Reynolds, C. R. I. & P. Ry.....	Milan.....	Rock Island.....	813
Rochelle, C. B. & Q. R. R. ....	Rochelle.....	Ogle.....	793
Rollo, C. & N. W. Ry.....	Earlville.....	La Salle.....	754
Round Grove, C. & N. W. Ry.....	Morrison.....	Whiteside.....	687
Round Lake.....	Grays Lake.....	Lake.....	761
Russell.....	Waukegan.....	Lake.....	677
Ruth Lake.....	Riverside.....	Du Page.....	703
Sand Lake.....	Grays Lake.....	Lake.....	775
Saratoga.....	Morris.....	Grundy-Kendall.....	595
Scales Mound.....	Galena.....	Jo Daviess.....	1, 140
Seatonville, N. Y. C. R. R. ....	Hennepin.....	Bureau.....	605
Seneca.....	Marseilles.....	La Salle.....	500
Seward, I. C. R. R. ....	Oregon.....	Winnebago.....	870
Shagbark Lake.....	Highwood.....	Cook.....	622
Shaws, C. B. & Q. R. R. ....	Mendota.....	Lee.....	804
Sheffield, C. R. I. & P. Ry.....	Buda.....	Bureau.....	675
Sheridan, C. B. & Q. R. R. ....	Plano.....	La Salle.....	590
Silver Lake.....	Elgin.....	McHenry.....	813
Silver Lake.....	Grays Lake.....	Lake.....	765
Simmons Mound.....	Lena.....	Jo Daviess.....	1, 082
Ski Hill.....	Barrington.....	McHenry.....	880
Slocum Lake.....	Grays Lake.....	Lake.....	736
Slough Lake.....	Grays Lake.....	Lake.....	775
Solon Mills.....	McHenry.....	McHenry.....	791
Spencer.....	Peotone.....	Will.....	712

*Supplemental elevations in northern Illinois—Continued*

Location	Quadrangle	County	Elevation (feet)
Spring Lake.....	Barrington.....	Cook.....	768
Squirrel Grove Mound.....	Elizabeth.....	Jo Daviess.....	1,194
Starved Rock.....	Ottawa.....	La Salle.....	540
Stavanger.....	Marseilles.....	La Salle.....	672
Sublette, I. C. R. R.....	Mendota.....	Lee.....	920
Sugar Grove.....	Geneva.....	Kane.....	727
Sullivan Lake.....	Grays Lake.....	Lake.....	751
Summit.....	Des Plaines.....	Will.....	720
Sun Lake.....	Grays Lake.....	Lake.....	778
Swallow Cliffs.....	Des Plaines.....	Cook.....	715
Swedona.....	Orion.....	Mercer.....	714
Symerton, Wabash Ry.....	Wilmington.....	Will.....	641
Tampico, C. B. & Q. R. R.....	Prophetstown.....	Whiteside.....	643
Taylor Lake.....	Grays Lake.....	Lake.....	778
Taylor Ridge.....	Milan.....	Rock Island.....	781
Terrapin Ridge.....	Elizabeth.....	Jo Daviess.....	1,041
Third Lake.....	Grays Lake.....	Lake.....	763
Thomas.....	Prophetstown.....	Bureau.....	629
Thunderbolt Hill.....	Prophetstown.....	Whiteside.....	675
Tinley Park.....	Des Plaines.....	Cook.....	700
Troy Grove.....	La Salle.....	Bureau.....	660
Tuma Lake.....	Des Plaines.....	Cook.....	640
Turner Lake.....	Grays Lake.....	Lake.....	739
Ulah, C. R. I. & P. Ry.....	Geneseo.....	Henry.....	727
Union Grove, C. & N. W. Ry.....	Clinton.....	Whiteside.....	677
Van Orin, C. B. & Q. R. R.....	Amboy.....	Bureau.....	807
Van Petten, C. & N. W. Ry.....	Walnut.....	Lee.....	657
Walnut, C. B. & Q. R. R.....	Walnut.....	Bureau.....	714
Walton, C. B. & Q. R. R.....	Amboy.....	Lee.....	723
Warren, I. C. R. R.....	Lena.....	Jo Daviess.....	1,007
Waterman, C. B. & Q. R. R.....	De Kalb.....	De Kalb.....	820
Wauponsee.....	Morris.....	Grundy.....	618
Wayne.....	Wheaton.....	Du Page.....	758
Wenzel Mound.....	Elizabeth.....	Jo Daviess.....	1,060
West Brooklyn, C. B. & Q. R. R.....	Mendota.....	Lee.....	948
Wilmington, C. & A. R. R.....	Wilmington.....	Will.....	543
Wolf Lake.....	Calumet.....	Cook.....	581
Woodbine.....	Elizabeth.....	Jo Daviess.....	860
Wooster Lake.....	Grays Lake.....	Lake.....	742
Woosung, I. C. R. R.....	Woosung.....	Ogle.....	817
Wyanet, C. B. & Q. R. R.....	Buda.....	Bureau.....	658
Wyanet, C. R. I. & P. Ry.....	Buda.....	Bureau.....	602
Yorktown.....	Prophetstown.....	Bureau.....	638
Youngsdale, I. C. R. R.....	Geneva.....	Kane.....	804
Zearing.....	Hennepin.....	Bureau.....	736



# INDEX

A	B
Addison----- 1619, 1623	Baker----- 1674
Adeline----- 1404, 1408, 1573-1574, 1577	Baltimore & Ohio R. R.----- 1323
Adgate, George, leveling by_ 1532-1533, 1554	Barbers Creek, bridge over----- 1514
Adjustment of leveling net----- 1284	Barksdale, J. F., leveling by----- 1352-1354, 1435, 1449, 1450, 1457-1458, 1459, 1525-1526, 1654-1657
Aitken----- 1418	Barreville----- 1388, 1525-1526
Albany----- 1332-1333, 1334-1335, 1443, 1488, 1489, 1491, 1518	Barrington----- 1301, 1302-1303, 1388
Alden----- 1453-1454, 1458, 1528, 1530	Barrington Center----- 1301, 1303
Algonquin----- 1303, 1388-1389, 1394-1395	Barrington quadrangle----- 1299-1305
Alpine----- 1359-1360, 1363	Barstow----- 1516
Alworth----- 1575	Bartlett----- 1303, 1304, 1666, 1668
Amboy----- 1290-1291, 1293	Batavia----- 1432
Amboy quadrangle----- 1290-1293	Beaverton Crossroads----- 1309
Andalusia----- 1543, 1545	Beecher----- 1341, 1342-1343
Andover----- 1425, 1580, 1581	Belden----- 1531
Andres----- 1601-1602	Bellwood----- 1621
Annawan----- 1297-1298	Belmont----- 1669
Annawan quadrangle----- 1294-1298	Belvidere----- 1307, 1308, 1309-1310, 1503, 1504, 1505
Antioch----- 1444-1445, 1448, 1449	Belvidere quadrangle----- 1306-1310
Apple River----- 1344	Bemes----- 1341, 1342
bridge over----- 1547	Bench marks, classes of----- 1284
Aptakisic----- 1465, 1474	forms of----- 1284-1287, pl. 1
Archer, S. R., leveling by----- 1305, 1311-1312, 1324-1326, 1328- 1331, 1332-1333, 1337-1340, 1345-1346, 1363-1366, 1382- 1383, 1386-1387, 1389-1392, 1398, 1399-1402, 1420-1421, 1425-1426, 1429-1435, 1437- 1440, 1443, 1454-1456, 1466- 1468, 1471-1481, 1486-1487, 1487, 1490-1492, 1505, 1512- 1518, 1522-1524, 1544, 1545- 1547, 1553-1554, 1568-1570, 1579-1580, 1581-1583, 1590, 1594-1597, 1601, 1605, 1617- 1620, 1638, 1639-1647, 1650- 1651, 1665, 1668-1670, 1681- 1686.	how set----- 1286-1287
Argyle----- 1309, 1310	preservation and restoration of____ 1287
Arlington----- 1462, 1507, 1509, 1510, 1538	Bergen, Wis----- 1307
Arlington Heights----- 1300, 1465, 1468- 1469, 1471, 1473, 1474-1475	Berger----- 1321
Arlington Heights 7½-minute quad- rangle. (See Highwood quadrangle.)	Berwyn 7½-minute quadrangle. (See Riverside quadrangle.)
Ashton----- 1370, 1373-1374, 1631-1632	Bibbee, E. C., leveling by----- 1536, 1550-1553, 1671
Atkinson----- 1423-1424, 1426, 1427, 1490	Big Foot Prairie----- 1455-1456, 1458
Aurora-- 1432-1433, 1434-1435, 1668, 1686	Big Rock----- 1433, 1606, 1653
Aurora, Elgin & Fox River electric ry----- 1388, 1428	Bills Run, bridge over----- 1533
Aurora, Plainfield & Joliet electric ry----- 1483	Bittles triangulation sta. (S.D.C.)-- 1357
	Black Walnut Creek, bridge over----- 1499
	Blackberry Creek, bridge over----- 1684
	Blanding----- 1419-1420
	Bloomington----- 1666-1667
	Blue Island 7½-minute quadrangle. (See Calumet quad- rangle.)
	Bodell's Four Corners----- 1421
	Bolton----- 1405-1406, 1407, 1408, 1410-1411, 1417, 1568
	Bowes----- 1392, 1429
	Bowmansville----- 1327
	Braeside----- 1478-1479
	Braidwood----- 1671, 1672
	Brandon Bridge over Des Plaines River----- 1482, 1672-1673
	Brisbane----- 1599-1600, 1674

- Brisbane 7½-minute quadrangle. (See Peotone quadrangle.)
- Bristol ----- 1684
- Broadus, W. R., leveling by-- 1319, 1356-1363, 1487, 1599-1601, 1674
- Broadview ----- 1620
- Brodhead quadrangle----- 1311-1312
- Brookfield ----- 1625
- Brooks, E. O., leveling by----- 1294-1295, 1313-1318, 1373, 1403-1404, 1461, 1545, 1573-1577, 1658, 1676.
- Brown Creek, bridge over----- 1595, 1597
- Brush Creek, bridge over----- 1413
- Bücher, Henry, leveling by----- 1313, 1344, 1396-1398, 1418-1420, 1460-1462, 1464-1466, 1507-1510, 1663-1664.
- Buck Creek, East Fork of, bridge over----- 1590
- Buda----- 1314-1315, 1317
- Buda quadrangle----- 1313-1318
- Buffalo Creek, bridge over----- 1474
- Buffalo Grove----- 1473
- Bureau----- 1460, 1462, 1463
- Bureau Creek, bridge over----- 1461, 1463
- Burlington----- 1437-1438, 1651
- Burnham----- 1326
- Byron----- 1496-1497, 1499, 1571, 1572-1573, 1575-1576
- C
- Cable----- 1543, 1544, 1579-1580
- Caledonia ----- 1309
- Calumet City----- 1321, 1326
- Calumet City 7½-minute quadrangle. (See Calumet quadrangle.)
- Calumet Lake 7½-minute quadrangle. (See Calumet quadrangle.)
- Calumet quadrangle----- 1319-1326
- Calumet Sag Channel----- 1357
- bridge over----- 1325, 1357
- Cambridge----- 1422-1423, 1425, 1581
- Camp Creek, bridge over----- 1645
- Capron----- 1308, 1451-1452, 1456, 1457
- Carbon Cliff----- 1512, 1516, 1583
- Carpentersville----- 1390
- Carroll Creek, bridge over----- 1643
- Cary----- 1299, 1302, 1305
- Caton Farm----- 1482-1483
- Cedar Creek, bridge over----- 1413, 1510
- Cedar Point----- 1509, 1510
- Cedarville----- 1411-1412, 1413-1414
- Central----- 1552, 1554
- Chadwick----- 1556, 1564-1565, 1566
- Chana----- 1369-1370, 1373, 1500, 1627, 1632.
- Channahon----- 1555, 1673
- Channel Lake----- 1445
- Charter Grove----- 1438
- Chase----- 1562, 1657
- Chemung----- 1457
- Cherry----- 1507, 1510
- Cherry Valley----- 1307-1308, 1503, 1638
- Chicago----- 1319, 1327-1331, 1399, 1400, 1620, 1623, 1626
- Chicago & Alton R. R.----- 1330, 1357, 1364, 1671, 1672
- Chicago & Eastern Illinois Ry-- 1323, 1342
- Chicago & Interurban Ry----- 1323, 1324
- Chicago & Milwaukee electric ry----- 1664
- Chicago & North Western Ry----- 1300, 1302, 1304, 1307, 1309, 1310, 1315, 1316, 1318, 1328, 1329, 1330, 1331, 1334, 1352, 1378, 1390, 1394, 1419, 1430, 1431, 1442, 1452, 1456, 1457, 1458, 1467, 1469, 1470, 1471, 1472, 1473, 1479, 1480, 1502, 1503, 1504, 1505, 1526, 1631, 1664, 1665, 1666, 1679.
- Chicago, Aurora & Elgin electric ry----- 1619, 1686
- Chicago, Burlington & Quincy R. R.-- 1296, 1314, 1317, 1329, 1334, 1336, 1369, 1371, 1377, 1378, 1379, 1382, 1383, 1418, 1419, 1420, 1433, 1434, 1488, 1493, 1498, 1499, 1500, 1515, 1516, 1535, 1546, 1547, 1561, 1565, 1572, 1579, 1580, 1584, 1587, 1588, 1611, 1612, 1618, 1624, 1625, 1640, 1641, 1642, 1659, 1667, 1669, 1670, 1676, 1677.
- Chicago Great Western Ry----- 1405, 1420, 1428, 1437, 1498, 1501, 1505, 1563, 1571, 1653, 1654.
- Chicago Heights----- 1324, 1340
- Chicago Loop 7½-minute quadrangle. (See Chicago quadrangle.)
- Chicago, Milwaukee & Gary Ry----- 1338
- Chicago, Milwaukee, St. Paul & Pacific R. R.----- 1304, 1332, 1333, 1334, 1342, 1389, 1395, 1404, 1411, 1436, 1440, 1442, 1443, 1465, 1466, 1468, 1472, 1475, 1477, 1480, 1481, 1496, 1497, 1502, 1509, 1513, 1514, 1517, 1538, 1563, 1565, 1566, 1571, 1577, 1595, 1597, 1622, 1626, 1629, 1635, 1639, 1641, 1648, 1654, 1666, 1667, 1668, 1669, 1670.
- Chicago, North Shore & Milwaukee electric R. R.----- 1401, 1402, 1478, 1479
- Chicago quadrangle----- 1327-1331
- Chicago River, North Branch of, bridge over----- 1328, 1476, 1481
- West Fork of North Branch of, bridge over----- 1475
- Chicago, Rock Island & Pacific Ry--- 1295, 1314, 1315, 1317, 1320, 1345, 1346, 1361, 1366, 1425, 1460, 1512, 1516, 1534, 1542, 1551, 1579, 1584.
- Chicago Sanitary and Ship Canal--- 1625
- bridge over----- 1329, 1330
- Chicago West Base (U. S. L. S.)--- 1626

- Chuns (Spring) Creek, bridge over-- 1301  
 Churchville ----- 1623  
 Clare ----- 1501-1502  
 Clarion ----- 1538  
 Clark, M. W., leveling by ----- 1423-1424,  
 1427, 1492-1495, 1518, 1583-  
 1585.  
 Classification of leveling ----- 1283-1284  
 Clinite, R. G., leveling by ----- 1311,  
 1356, 1482, 1484-1486, 1532,  
 1548-1549, 1553, 1579, 1586-  
 1589, 1648, 1672-1674.  
 Clinton quadrangle ----- 1332-1336  
 Coal City ----- 1551, 1553, 1554, 1671  
 Coal Valley ----- 1578, 1579, 1585  
 Coleman ----- 1428  
 Coleta ----- 1560, 1561-1562, 1677, 1678  
 Colona ----- 1583  
 Colvin Park ----- 1505-1506  
 Como ----- 1561, 1562, 1611, 1659  
 Compton ----- 1538, 1540  
 Coon Creek, bridge over ----- 1439,  
 1505, 1613, 1615  
 Cooperation, with Illinois Geological  
 Survey Division, Depart-  
 ment of Registration  
 and Education ----- 1288  
 Copperas Creek, bridge over ----- 1385  
 Coral ----- 1441  
 Cordova ----- 1443, 1517-1518  
 Council Hill ----- 1418-1419  
 Council Hill Sta ----- 1419  
 Crampton (Sunny Hill) ----- 1579  
 Crane Creek, bridge over ----- 1410  
 Crawford Corners ----- 1665  
 Creston ----- 1350, 1628  
 Crete ----- 1341  
 Crete quadrangle ----- 1337-1343  
 Cronin triangulation sta. (S. D. C.) ----- 1364  
 Crystal Lake ----- 1388, 1394, 1526, 1528  
 Culton ----- 1509, 1510-1511  
 Culton triangulation sta. (U. S. C. &  
 G. S.) ----- 1510-1511  
 Custer Park ----- 1672
- D**
- Dakota ----- 1411, 1597  
 Damascus ----- 1412, 1415-1416, 1521  
 Danforth, F. A., leveling by ----- 1307,  
 1497, 1498, 1503, 1638  
 Danway ----- 1534  
 Darlington quadrangle ----- 1344  
 Datum of elevations ----- 1287  
 Davenport quadrangle ----- 1345-1346  
 Davenport, Rock Island & Northwest-  
 ern Ry ----- 1516  
 Daviess triangulation sta. (U. S. C.  
 & G. S.) ----- 1538  
 Davis ----- 1311  
 Davis Junction ----- 1497  
 Dayton ----- 1582-1583, 1587  
 Deer Creek, bridge over ----- 1340  
 Deer Grove ----- 1660  
 Deerfield ----- 1474, 1475-1476, 1480  
 De Kalb ----- 1347, 1348, 1352, 1652, 1653-1654  
 De Kalb quadrangle ----- 1347-1355  
 Denrock ----- 1612-1613
- Derinda Center ----- 1397, 1398  
 Deselm ----- 1598  
 Des Plaines ----- 1464-1465, 1467, 1470  
 Des Plaines quadrangle ----- 1356-1366  
 Des Plaines River ----- 1620, 1622, 1625  
 bridge over ----- 1466, 1467, 1474  
 Brandon Bridge over ----- 1482, 1672-1673  
 Diamond ----- 1551, 1671  
 Diamond Lake ----- 1300, 1446, 1476-1477  
 Dickeyville quadrangle ----- 1367-1368  
 Dickinson, C. G., leveling by ----- 1378-1380,  
 1536, 1590-1591, 1606-1607.  
 Dimmick ----- 1507-1508  
 Divine ----- 1551  
 Dixon ----- 1293, 1370-  
 1371, 1373, 1374, 1679, 1680  
 Dixon quadrangle ----- 1369-1374  
 Dover ----- 1461  
 Downers Grove ----- 1485,  
 1617, 1618, 1625, 1668, 1669  
 Drath, W. J., leveling by ----- 1367-1368,  
 1381-1382, 1408, 1415-1416,  
 1416-1417, 1520-1521, 1521-  
 1522, 1549, 1649.  
 Druce Lake ----- 1446  
 Dry Creek, bridge over ----- 1306, 1307, 1636  
 Du Page River, bridge over ----- 1673  
 East Branch of, bridge over ----- 1485,  
 1487, 1667, 1669  
 West Branch of, bridge over ----- 1487  
 Durand ----- 1312, 1596-1597  
 Dyer, Ind ----- 1340  
 Dyer 7½-minute quadrangle (See  
 Crete quadrangle.)
- E**
- Eagle Lake ----- 1341, 1342  
 Earlville ----- 1377-1378, 1590  
 Earlville quadrangle ----- 1375-1380  
 East Aux Sable Creek, bridge over ----- 1681  
 East Branch of Du Page River, bridge  
 over ----- 1485, 1487, 1667, 1669  
 East Dubuque ----- 1367-1368, 1381, 1382-1383  
 East Dubuque quadrangle ----- 1381-1383  
 East Dundee ----- 1389  
 East Fork of Buck Creek, bridge over ----- 1590  
 East Moline (Watertown) ----- 1513  
 Edgington ----- 1384, 1386, 1543, 1544  
 Edgington quadrangle ----- 1384-1387  
 Edward River, bridge over ----- 1579  
 Egan ----- 1571  
 Elburn ----- 1430, 1434, 1435, 1651  
 Eldena ----- 1291, 1372-1373  
 Eleroy ----- 1416, 1521-1522  
 Elevation, figures of, accuracy of ----- 1285  
 figures of, datum of ----- 1287  
 Elgin ----- 1388, 1389, 1391, 1395  
 Elgin, Joliet & Eastern Ry ----- 1301,  
 1304, 1340, 1482, 1483, 1484,  
 1486, 1551, 1555, 1604, 1667  
 Elgin quadrangle ----- 1388-1395  
 Eliza ----- 1385, 1386  
 Eliza Creek, bridge over ----- 1385  
 Elizabeth quadrangle ----- 1396-1398  
 Elk Grove (Oak Center) ----- 1468-1467, 1469  
 Elkhorn Grove ----- 1404-1405, 1406, 1566, 1677

Elledge, W. C., leveling by----- 1293,  
1337-1338, 1342-1343, 1531,  
1598-1599, 1601-1604, 1675  
Elmhurst 7½-minute quadrangle. (*See*  
Riverside quadrangle.)  
Elmville----- 1397  
Elmwood Park----- 1623  
Elva----- 1347, 1348, 1352, 1354  
Elwood----- 1672  
Emerson----- 1561  
Englewood 7½-minute quadrangle.  
(*See* Chicago quadrangle.)  
Eola----- 1435, 1667, 1668  
Erie----- 1488, 1494  
Esmond----- 1498, 1502  
Evanston----- 1399, 1400-1401  
Evanston quadrangle----- 1399-1402  
Evarts----- 1572, 1574, 1592  
Everett----- 1466, 1476

## F

Fairhaven----- 1556, 1558  
Farb Corner----- 1496, 1499  
Farwell Bridge over Pecatonica River  
1592, 1593  
Feehanville----- 1471  
Fenton----- 1332, 1488, 1489, 1492, 1610  
Five Points----- 1437, 1505, 1650  
Fivemile Bridge over Illinois and  
Michigan Canal----- 1533-1534,  
1535  
Forreston----- 1404, 1407-1408, 1577  
Forreston quadrangle----- 1403-1408  
Fort Sheridan----- 1478  
Fox----- 1607, 1683  
Fox & Illinois Union electric ry----- 1682  
Fox Lake----- 1447, 1448  
Fox River----- 1449, 1535  
bridge over----- 1302,  
1305, 1389, 1390, 1395, 1447,  
1449, 1535, 1566, 1607.  
Rawson Bridge over----- 1299, 1305  
Fox River Grove----- 1301-1302, 1305  
Frankfort. 1339, 1361, 1366, 1600-1601, 1603  
Frankfort 7½-minute quadrangle. *See*  
Peotone quadrangle.)  
Franklin----- 1324  
Franklin Corners----- 1556-1557  
Franklin Grove----- 1370, 1372, 1373  
Franklin Park----- 1622  
Franklin sta----- 1323  
Franklinville----- 1453  
Freeman----- 1393  
Freeport----- 1409-1410, 1414  
Freeport quadrangle----- 1409-1417  
Fremont Center----- 1449  
French, C. R., leveling by----- 1384-  
1386, 1532-1535, 1544  
Freshour, Fred, leveling by----- 1601-  
1603, 1675  
Frontenac----- 1483, 1667  
Fuller Bridge over Somonauk Creek----- 1348  
Fulton----- 1334, 1335

## G

Galena----- 1418, 1419, 1421  
Galena Junction----- 1382,  
1418, 1419, 1420-1421

Galena quadrangle----- 1418-1421  
Galena River, bridge over----- 1418  
Galt----- 1561, 1676  
Garden Plain----- 1335-1336  
Garden Prairie----- 1308,  
1309, 1451, 1456-1457  
Gardner, C. C., leveling by----- 1307-  
1308, 1504-1505  
Gears Ferry----- 1420  
Gehres, W. S., leveling by----- 1593-  
1594, 1635  
Gelbach, W. A., leveling by----- 1388, 1428-1429  
Geneseo----- 1426, 1582  
Geneseo quadrangle----- 1422-1427  
Geneva----- 1431-1432  
Geneva quadrangle----- 1428-1435  
Genoa----- 1440, 1442  
Genoa City, Wis----- 1529  
Genoa quadrangle----- 1436-1442  
Georgetown----- 1567  
German Valley----- 1404,  
1571-1572, 1574  
Gilberts----- 1390-1391, 1392  
Gilmer----- 1300, 1449  
Glen Ellyn----- 1666, 1667  
Glencoe----- 1401, 1479, 1480-1481  
Glenview----- 1400, 1470, 1471-1472, 1479  
Glenwood----- 1324  
Godley----- 1671  
Goeselville----- 1320, 1362  
Goodings Grove----- 1359  
Goose Lake quadrangle----- 1443  
Gorman----- 1550-1551, 1553, 1554  
Gouchenour, E. W., leveling by----- 1354-  
1355, 1395, 1442, 1504-1505,  
1626, 1630, 1670.  
Grand Detour----- 1370  
Grand Trunk Ry----- 1320, 1323  
Grant Park----- 1338  
Granville----- 1462, 1509, 1510  
Grays Lake----- 1446-1447  
Grays Lake quadrangle----- 1444-1450  
Green River, bridge over----- 1316, 1423,  
1537, 1532, 1658  
Greenwood----- 1527, 1530  
Griffin----- 1544, 1579

## H

Hahnman----- 1660  
Halfday----- 1465-1466, 1474, 1476, 1477, 1481  
Hall, H. S., leveling by----- 1334-1336,  
1372-1373, 1374, 1404, 1507-  
1508, 1548-1549, 1554-1555,  
1563-1568, 1605, 1673, 1675,  
1684-1685.  
Hamilton triangulation sta. (U. S. C.  
& G. S.)----- 1500  
Hamlet----- 1544, 1545  
Hammer Creek, bridge over----- 1403  
Hammond, Ind----- 1320, 1326  
Hampshire----- 1439-1440  
Hampton----- 1513-1514  
Hanover----- 1397, 1420  
Hanover triangulation sta. (M. R. C.)----- 1546  
Harmon----- 1292-1293, 1659, 1662, 1679-1680  
Harmony----- 1436, 1441  
Harper----- 1407

Harris, E. E., leveling by----- 1463, 1510  
 Harris Corners----- 1663  
 Harrison----- 1594, 1633-1634, 1635  
 Hartland----- 1452-1453, 1458, 1527, 1528  
 Harvard----- 1454-1455, 1457-1458  
 Harvard quadrangle----- 1451-1459  
 Harvey----- 1323-1324  
 Harvey 7½-minute quadrangle. (*See*  
     Calumet quadrangle.)  
 Hasting triangulation sta. (S. D. C.)- 1357  
 Hay, W. M., leveling by----- 1415-1416,  
     1520-1521, 1549, 1649  
 Hazelhurst----- 1406  
 Hebron----- 1454, 1528-1529, 1530  
 Heebink, G. E., leveling by----- 1345,  
     1542-1544, 1578-1579  
 Hegewisch----- 1326  
 Helmar----- 1554, 1683  
 Henderson Bridge----- 1653  
 Hennepin----- 1462, 1463  
 Hennepin quadrangle----- 1460-1463  
 Henpeck----- 1392-1393, 1395, 1436  
 Herbert----- 1440, 1504, 1505-1506  
 Hickory Grove----- 1639  
 Highland Park----- 1478  
 Highland Park 7½-minute quadrangle.  
     (*See* Highwood quad-  
     rangle.)  
 Highwood----- 1465, 1478, 1480  
 Highwood quadrangle----- 1464-1481  
 Hillsdale----- 1488, 1489, 1491,  
     1492-1493, 1494-1495, 1515  
 Hillside----- 1620-1621, 1623  
 Hinckley----- 1606, 1653, 1657  
 Hinsdale----- 1624-1625  
 Hinsdale 7½-minute quadrangle.  
     (*See* Riverside quad-  
     rangle.)  
 Holbrook----- 1324  
 Holder, C. C., leveling by----- 1497,  
     1498-1499, 1572  
 Homewood----- 1322-1323  
 Honey Creek----- 1369, 1371, 1572, 1627  
     bridge over----- 1520  
 Hoopole----- 1296, 1298, 1614, 1615-1616  
 Howard, R. C., leveling by----- 1666-1667  
 Huntley----- 1393-1394, 1526

## I

Ideal----- 1333, 1558, 1565  
 Illinois and Michigan Canal----- 1357,  
     1461, 1554  
     Fivemile Bridge over-- 1533-1534, 1535  
 Illinois and Mississippi Canal feeder,  
     bridge over----- 1612  
 Illinois Central R. R.----- 1291,  
     1320, 1321, 1322, 1329, 1339,  
     1344, 1381, 1382, 1383, 1392,  
     1396, 1411, 1412, 1414, 1415,  
     1416, 1418, 1419, 1438, 1503,  
     1509, 1521, 1524, 1537, 1539,  
     1548, 1574, 1598, 1619, 1648  
 Illinois City----- 1386  
 Illinois Geological Survey Division,  
     Department of Registra-  
     tion and Education, co-  
     operation with----- 1288

Illinois River----- 1462, 1551, 1553  
     bridge over----- 1508, 1551  
 Illinois Slough, bridge over----- 1384  
 Indian Creek, bridge over----- 1465,  
     1481, 1587, 1591  
 Indiana Harbor Belt R. R.----- 1322,  
     1326, 1330, 1358, 1626  
 Ingaltan----- 1666  
 Irene----- 1503  
 Itasca--- 1305, 1466, 1619, 1626, 1669, 1670

## J

Jackson Park 7½-minute quadrangle.  
     (*See* Chicago quad-  
     rangle.)  
 Johnsonburg----- 1446, 1447, 1449, 1525  
 Johnson, L. V., leveling by----- 1297-1298,  
     1615-1616  
 Johnson Creek, bridge over----- 1333, 1565  
 Joliet----- 1482, 1483, 1484, 1486, 1487  
 Joliet quadrangle----- 1482-1487  
 Jones, H. P., leveling by----- 1395,  
     1449, 1452-1454, 1526-1530  
 Jordan Creek, bridge over----- 1672  
 Joslin----- 1488  
 Joslin quadrangle----- 1488-1495  
 Justice----- 1364

## K

Kaneville----- 1434, 1435, 1656  
 Keller triangulation sta. (S. D. C.)-- 1364  
 Kelley Corners----- 1665  
 Kenilworth----- 1402  
 Kennedy----- 1418, 1421  
 Kent----- 1519  
 Kewanee----- 1296, 1297, 1298  
 Kings----- 1498, 1499-1500  
 Kings quadrangle----- 1496-1500  
 Kings triangulation sta. (U. S. C. &  
     G. S.)----- 1499  
 Kingston----- 1436,  
     1440, 1442, 1501, 1504-1505  
 Kirkland----- 1502-1503  
 Kirkland quadrangle----- 1501-1506  
 Kishwaukee River, bridge over----- 1307,  
     1454, 1497, 1503  
     North Branch of, bridge over----- 1458  
     South Branch of----- 1505, 1650  
     bridge over----- 1352, 1393, 1442  
 Kittredge----- 1563  
 Kramer, F. D., leveling by----- 1327-1328,  
     1620-1626  
 Kyte River----- 1627  
     bridge over----- 1632

## L

Lace----- 1617-1618  
 Ladd----- 1461, 1507  
 La Fox----- 1430-1431  
 La Grange----- 1623-1624, 1625  
 Lake Bluff----- 1664, 1665  
 Lake Forest----- 1466,  
     1476, 1477-1478, 1664, 1665  
 Lake Marie----- 1445  
 Lake Villa----- 1448  
 Lake Zurich----- 1302

Lanark-----	1405,	Marselles quadrangle-----	1532-1536
1563-1564, 1566-1567		Martin, E. W., leveling by-----	1607-1609,
Lansing-----	1323	1681-1683	
La Salle quadrangle-----	1507-1511	Martintown, Wis-----	1549, 1648, 1649
Latham Park-----	1636, 1637	Maryland-----	1403, 1573
Laws Siding-----	1396	Massbach-----	1397,
Leaf River-----	1576-1577	1398, 1644-1645, 1646	
Le Claire quadrangle-----	1512-1518	Matherville-----	1543-1544, 1545
Lee-----	1351, 1376	Matteson-----	1325-1326, 1601
Lee Center-----	1290, 1372, 1537, 1540	Maywood-----	1620
Leland-----	1379-1380, 1606-1607	Mean sea level, definition of-----	1287
Lemont-----	1356-1357,	Medinah-----	1670
1358, 1485-1486		Melody-----	1476, 1477
Lena-----	1521, 1522-1523	Mendota-----	1510, 1538-1539
Lena quadrangle-----	1519-1524	Mendota quadrangle-----	1537-1541
Leveling, adjustment of net of-----	1284	Menominee-----	1368, 1381-1382, 1383, 1421
classification of-----	1283-1284	Menominee River, bridge over-----	1367, 1382
in Illinois, earlier publications		Menominee Sta-----	1382
on-----	1289	Meredosa Slough-----	1332
Libertyville-----	1466, 1477, 1663, 1665	Metcalfe, J. B., Jr., leveling by-----	1307,
Lily Lake-----	1429-1430, 1435, 1654	1436, 1498, 1501-1503	
Limerick-----	1313,	Michigan Central R. R-----	1340, 1601
1318, 1461-1462, 1661,		Midlothian-----	1320
Lindenwood-----	1349,	Milan-----	1543
1498, 1502, 1627-1628		Milan quadrangle-----	1542-1545
Lisbon-----	1535, 1536, 1552, 1554	Miles quadrangle-----	1546-1547
Lisle-----	1667, 1669-1670	Mill Creek, bridge over-----	1398
Little Calumet River, bridge over-----	1321,	Milledgeville-----	1677
1322		Millersburg-----	1384-1385
Little Indian Creek, bridge over-----	1879, 1607	Mineral Creek, bridge over-----	1581
Little Menominee River, bridge over-----	1382,	Minneapolis, St. Paul & Sault Ste.	
1383		Marie Ry-----	1467, 1470, 1471
Lombard triangulation sta. (U. S. L.		Minooka-----	1551-1552, 1553, 1555
S.)-----	1619	Mississippi River, bridge over-----	1383
Long Grove-----	1474, 1476	Savanna-Sabula bridge over-----	1640, 1641
Long Lake-----	1447, 1448, 1449	Mokena-----	1360, 1361
Loran-----	1519, 1567-1568	Mokena 7½-minute quadrangle. (See	
Lorenzo-----	1671	Des Plaines quad-	
Lost Creek, bridge over-----	1405	range.)	
Loves Park-----	1637, 1638	Moline-----	1346, 1542, 1578
Lowell-----	1508	Monroe-----	1343, 1602-1603
Lyndon-----	1557, 1610, 1611, 1612	Monroe Center-----	1498, 1499, 1502, 1503
Lynn-----	1579	Monroe quadrangle-----	1548-1549
M			
McConnell-----	1415, 1521	Moore, G. W., leveling by-----	1291-1293,
McCook-----	1625-1626	1376-1378, 1406-1408, 1410-	
McHenry-----	1460, 1525, 1526-1527	1411, 1510-1511, 1538-1541,	
McHenry quadrangle-----	1525-1531	1577, 1590, 1629-1630, 1659-	
Malden-----	1461	1602, 1678-1680.	
Malta-----	1349.	Morris-----	1552-1553, 1554-1555
1351, 1352-1353, 1354-1355		Morris quadrangle-----	1550-1555
Malvern-----	1560	Morrison-----	1332, 1557-1560, 1581, 1610
Manhattan-----	1509, 1601, 1674, 1675	Morrison quadrangle-----	1556-1562
Manlius-----	1315, 1316, 1318, 1658	Morseville-----	1519-
Mannon-----	1386	1520, 1522, 1523, 1566, 1646	
Manteno-----	1598-1599, 1604	Mosquito Creek, bridge over-----	1504
Maple Park-----	1652, 1655	Mount Carroll-----	1565-1566, 1568, 1643-1644
Maps of quadrangles in northern Illi-		Mount Carroll quadrangle-----	1563-1568
nois, how to obtain-----	1288	Mount Morris-----	1403, 1407, 1573, 1576
Marcus-----	1640	Mount Prospect-----	1470-1471
Marengo-----	1439,	Mud Creek, bridge over-----	1297
1441, 1454, 1457, 1458-1459		Muddy Creek, bridge over-----	1415
Mark-----	1462	Muddy Plum River, bridge over-----	1520, 1523
Marley-----	1360-1361	Mundelein-----	1446, 1665
Marseilles-----	1532-1533, 1534	Muscatine quadrangle-----	1569-1570
		Myrtle-----	1571

## N

Nachusa	1370
Naperville	1487, 1667, 1668, 1670
Negro Creek, bridge over	1507
Nelson City	1449
Neponset	1294-1296
Nettle Creek, bridge over	1535
New Bedford	1296, 1315-1316, 1612, 1658
New Lebanon	1438, 1440, 1442
New Milford	1497, 1499
Newell, G. W., leveling by	1332, 1488-1489
Niles	1467-1468
Niles Center	1399-
	1400, 1464, 1468, 1471, 1620
Nora	1522, 1523-1524
Normantown	1483
North Aurora	1432
North Branch of Chicago River, bridge over	1328, 1476, 1481
West Fork of, bridge over	1475
North Branch of Kishwaukee River, bridge over	1458
North Chicago	1664
North Fork of Plum River, bridge over	1397
North Harvey	1320-1321, 1323
North Northfield	1472-1474, 1475, 1480
North Plato	1392
Northbrook	1464, 1480, 1481
Norway	1534-1535, 1536

## O

Oak Center (Elk Grove)	1466-1467, 1469
Oak Glen	1323
Oak Lawn	1319, 1324-1325, 1358, 1365
Oakley, Wis	1311
Oglesby	1508-1509
Ohio	1291-1292
Ontarioville	1668
Ophiem	1579, 1580, 1581
Orangeville	1412-1413, 1548-1549
Orchard Place	1467, 1470, 1622
Oregon	1371, 1572
Oregon quadrangle	1571-1577
Orion	1579, 1584-1585
Orion quadrangle	1578-1585
Orland Park	1358-1359, 1362
Orland triangulation sta. (U. S. L. S.)	1363
Osborn	1515-1516
Osco	1581, 1583
Oswego	1685-1686
Ottawa	1586-1587, 1588-1589
Ottawa quadrangle	1586-1591
Otter Creek, bridge over	1334
Owen Center	1636

## P

Palatine	1300-1301, 1302, 1304
Palisades State Park	1640
Palos Park 7½-minute quadrangle. (See Des Plaines quadrangle.)	
Park Ridge	1467
Park Ridge 7½-minute quadrangle. (See Highwood quadrangle.)	

Park Ridge triangulation sta	1467
Parker, S. L., leveling by	1299-
	1304, 1309-1310, 1388-1389, 1444-1449, 1482-1484, 1497, 1499, 1525-1526, 1573, 1638, 1664-1665, 1687-1668.
Paw Grove	1377
Paw Paw	1351, 1376-1377, 1540
Pearl City	1416-
	1417, 1522, 1567, 1568
Pecatonica	1592-1594, 1596, 1633
Pecatonica quadrangle	1592-1597
Pecatonica River, bridge over	1415, 1593
Farwell Bridge over	1592, 1593
Ridott Bridge over	1409, 1593
Trask Bridge over	1593,
	1594, 1633, 1635
Pecumsaugan Creek, bridge over	1508
Penders Corners	1665
Pennsylvania Corners	1372
Pennsylvania R. R.	1321, 1323
Penrose	1678
Peotone	1602, 1603-1604
Peotone quadrangle	1598-1604
Perkins, J. M., leveling by	1409-
	1410, 1496-1497, 1571-1572, 1592-1593, 1633-1634.
Perryville	1503
Peru	1510
Peterstown	1509, 1510
Petersville	1385, 1386
Pikeville	1338, 1444, 1665
Pinch, F. C., leveling by	1411-1414,
	1416, 1521, 1597
Pingree Grove	1391, 1395
Pink Creek, bridge over	1593
Piscasaw Creek, bridge over	1456, 1457
Plainfield	1483, 1484, 1486-1487, 1681
Plano	1607
Plano quadrangle	1605-1609
Plato Center	1392
Plato Corners	1429
Platteville	1552, 1554, 1687
Pleasant Valley	1566
Plum Creek, bridge over	1340
Plum River, bridge over	1641, 1642, 1644
North Fork of, bridge over	1397
West Branch of, bridge over	1646
Polk	1342
Polo	1371, 1373, 1403, 1406-1407, 1676
Poplar Grove	1308-1309
Port Byron	1514-1515, 1516-1517
Portland Corners	1613
Prairie Center	1377, 1587-1588, 1590
Prairie View	1476
Princeton	1313, 1317, 1461
Prophetstown	1613, 1615, 1616
Prophetstown quadrangle	1610-1616
Putnam	1462

## Q

Quadrangles in northern Illinois, diagrams of	1288
index map showing	1288, pl. 10
maps of, how to obtain	1288

## R

Rapids City	1514
Ravinia	1478
Ravinia Park	1478
Rawson Bridge over Fox River	1299, 1305
Red Oak	1412, 1414, 1416
Referee Park (Riverview)	1470
Reynolds	1542-1543, 1544
Richland Creek, bridge over	1416
Richmond	1529-1531
Richton Park	1339, 1343
Ridgefield	1526, 1528
Ridott	1410, 1592, 1593, 1594-1595
Ridott Bridge over Pecatonica River	1409, 1593
Riley	1439
Ritchey	1672, 1674
River Forest 7½-minute quadrangle. (See Riverside quadrangle.)	
River Grove	1622-1623
Riverdale	1321-1322
Riverside quadrangle	1617-1626
Riverview (Referee Park)	1470
Rochelle	1350, 1628
Rochelle quadrangle	1627-1632
Rock City	1311, 1595-1596, 1597
Rock Creek, bridge over	1564, 1602
South Branch of, bridge over	1599
Rock Falls	1562, 1659, 1676-1677
Rock Island	1345-1346
Rock River	1371, 1572, 1613, 1634
bridge over	1493, 1497, 1499, 1572, 1573, 1583, 1613, 1635
Rock Run, bridge over	1673
Rockdale	1482, 1672-1673
Rockford	1307, 1496, 1497, 1499, 1503, 1637, 1638
Rockford quadrangle	1633-1638
Rockton	1634, 1635, 1636
Rollins	1447
Rollo	1379
Roscoe	1306, 1308, 1636-1637
Rosecrans	1664-1665
Roselle	1304, 1667, 1668, 1670
Round Lake	1449
Rush	1396
Rush Creek, bridge over	1457, 1458-1459, 1640
Russellville	1308, 1309

## S

Sag Bridge	1357, 1358, 1363
Sag Bridge 7½-minute quadrangle. (See Des Plaines quadrangle.)	
St. Charles	1428, 1429, 1431
Salt Creek	1621
bridge over	1623
Sands	1561, 1611
Sandwich	1607-1608
Saratoga	1552
Savanna	1639-1643, 1644, 1645-1646, 1647
Savanna Proving Grounds	1546, 1547

Savanna quadrangle	1639-1647
Savanna-Sabula bridge over Mississ- sippi River	1640, 1641
Scales Mound	1344, 1396, 1398, 1419, 1420
Scarboro	1351, 1629-1630
Schapville	1397, 1398, 1419
Schaumburg	1303-1304
Schnells Corner	1466, 1469
Scioto Mills	1412, 1414
Scope of report	1283
Sea level, mean, definition of	1287
Seatonville	1461
Semper, C. H., leveling by	1306-1307, 1308-1309, 1452, 1499, 1636-1638
Seneca	1533, 1534
Senseney, H. S., leveling by	1290-1291, 1295-1296, 1308-1309, 1369-1373, 1422-1423, 1451-1452, 1489, 1504-1505, 1509-1510, 1537-1538, 1556-1558, 1561-1562, 1572, 1580, 1598-1599, 1610-1612, 1614-1615, 1627, 1658, 1676-1677
Serena	1535, 1536, 1587, 1590-1591, 1607
Seward	1575
Seymour Bridge over Spring Creek	1301
Shabbona	1351-1352, 1376
Shabbona Grove	1375-1376, 1605
Shannon	1404, 1405, 1407, 1563, 1567
Sharon	1488
Sharon, Wis.	1307, 1452, 1456
Sheffield	1295, 1315, 1316
Sherburnville	1337, 1342
Sheridan	1536, 1607
Shermerville (Northbrook)	1464
Sherrard	1542, 1543, 1578-1579, 1585
Shirland	1635, 1637-1638
Shumate, J. A., leveling by	1296-1297, 1332, 1423, 1462, 1489-1490, 1519-1520, 1518-1560, 1566-1568, 1612-1614, 1677
Sick, U. K., leveling by	1373-1374, 1499-1500, 1630-1632
Silver Lake	1299, 1526
Silvis	1512
Sinsinawa River, bridge over	1382, 1421
Skokie River, bridge over	1476
Smith, E. S., leveling by	1327, 1399, 1464-1465
Somonauk	1379, 1608-1609
Somonauk Creek, Fuller Bridge over	1348
Somonauk River, bridge over	1606, 1608
South Addison	1619
South Beloit	1306, 1307, 1636
South Branch of Kishwaukee River	1505, 1650
bridge over	1352, 1393, 1442
South Branch of Rock Creek, bridge over	1599
South Chicago Heights	1339
South Elgin	1388, 1428
South Rock Island	1543
South Wayne quadrangle	1648-1649
Spaulding	1304, 1389
Spencer	1599
Spring Creek (Geneseo, quadrangle), bridge over	1427

Spring Creek (La Salle quadrangle), bridge over-----	1507
Spring (Chuns) Creek (Barrington quadrangle), bridge over-----	1301
Seymour Bridge over-----	1301
Spring Forest-----	1364
Spring Grove-----	1445-1446, 1449
Spring Hill-----	1489, 1493-1494, 1613
Standard-----	1509
Starks-----	1440
Starved Rock-----	1589
Steger-----	1339-1340, 1341
Steger 7½-minute quadrangle. (See Crete quadrangle.)	
Sterling-----	1676
Stevenson, R. G., leveling by-----	1392- 1395, 1436-1437, 1526
Steward-----	1350, 1354, 1628-1629, 1630-1631
Steward Junction-----	1629, 1630
Stillman Valley-----	1497, 1498, 1499
Stockdale-----	1534
Stockton-----	1396-1397, 1398, 1522, 1523
Stones-----	1659, 1679
Stratford-----	1371-1372, 1373, 1576
Sublette-----	1291, 1537-1538, 1539, 1541
Sugar Grove-----	1433, 1685
Sugar River, bridge over-----	1635, 1637
Summit-----	1361, 1626
Sunny Hill (Crampton)-----	1579
Swedona-----	1580
Sycamore-----	1487, 1650, 1654, 1655-1656
Sycamore quadrangle-----	1650-1657
Symerton-----	1674, 1675

## T

Tampico-----	1611-1612, 1660
Taylor Ridge-----	1543, 1544
Thomas-----	1296, 1614
Thomson-----	1338, 1334, 1642
Thorn Creek, bridge over-----	1323, 1324
Thornton-----	1323
Ticona-----	1508
Tinley Park-----	1322, 1325, 1361-1362, 1363-1366
Tinley Park 7½-minute quadrangle. (See Des Plaines quad- rangle.)	
Tiskilwa-----	1313-1314, 1460-1461
Tomahawk Creek, bridge over-----	1508
Tonica-----	1509
Trask Bridge over Pecatonica River-----	1593, 1594, 1633, 1635
Triumph-----	1509- 1510, 1511, 1588, 1590
Troxel-----	1656-1657
Troy Grove-----	1509

## U

Udina-----	1391, 1392, 1395
Uitti, W. L., leveling by-----	1339-1340, 1341
Union-----	1393, 1436-1437, 1441-1442, 1453
Union Grove-----	1335

Unionville-----	1559
Ustick-----	1335, 1558, 1559
Utica-----	1508, 1509, 1586, 1589

## V

Van Zandt, F. K., leveling by-----	1298, 1423-1425
Vermilion River, bridge over-----	1508
Vermillionville-----	1589
Victor-----	1375, 1380, 1607
Virgil-----	1435, 1438, 1651, 1654-1655
Volo-----	1448

## W

Wabash Ry-----	1325, 1359, 1360, 1672, 1675
Wacker-----	1566, 1639
Waddams Grove-----	1524
Walker, C. E., leveling by-----	1404- 1406, 1563-1568, 1639
Walnut-----	1292, 1660-1661
Walnut quadrangle-----	1658-1662
Walton-----	1292
Warren-----	1344, 1396, 1524, 1648
Warrenhurst-----	1667
Waterman-----	1347-1348, 1375, 1380, 1605, 1607, 1653
Watertown (East Moline)-----	1513
Wauconda-----	1299-1300, 1448
Waukegan-----	1663, 1664
Waukegan quadrangle-----	1663-1665
Waupecan Creek, bridge over-----	1550
Wauponsee-----	1533, 1550, 1554
Wedron-----	1587
Welland-----	1376, 1538-1539, 1540
Wempletown-----	1633, 1634, 1636
Wendel-----	1538
Wentworth triangulation sta. (S. D. C.)-----	1625
West, F. H., leveling by-----	1396, 1418-1419
West Aux Sable Creek, bridge over-----	1687
West Branch of Du Page River, bridge over-----	1487
West Branch of Plum River, bridge over-----	1646
West Brooklyn-----	1540, 1630
West Bureau Creek, bridge over-----	1317
West Chicago-----	1666, 1667
West Dundee-----	1390
West Fork of North Branch of Chi- cago River, bridge over-----	1475
Western Springs-----	1624
Westmore-----	1619
Wheaton-----	1666
Wheaton quadrangle-----	1666-1670
Wheeling-----	1473
Wheeling 7½-minute quadrangle. (See Highwood quad- rangle.)	
Whitaker-----	1338, 1599
Whitton-----	1546-1547, 1639
Wilkinson-----	1437, 1501, 1505

