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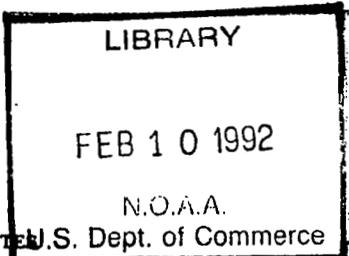
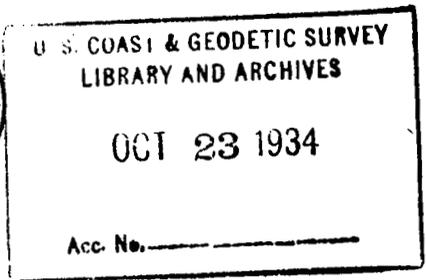
U.S. DEPARTMENT OF COMMERCE
DANIEL C. ROPER, Secretary
COAST AND GEODETIC SURVEY
R. S. PATTON, Director

Special Publication No. 185

LEVELING IN FLORIDA

By

HOWARD S. RAPPLEYE
MATHEMATICIAN



UNITED STATES GOVERNMENT PRINTING OFFICE
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National Oceanic and Atmospheric Administration

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LEVELING IN FLORIDA

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GENERAL STATEMENT

This publication contains the descriptions and elevations of bench marks, in the State of Florida, the elevations of which have been determined by first-order leveling executed by the Coast and Geodetic Survey. Approximately 2,050 miles of first-order leveling have been run within the limits of this State.

The several lines are listed below, together with the years in which the field work was done:

Line 1, Gainesville to Fernandina, Fla.....	1916
Line 2, Jacksonville to St. Augustine, Fla.....	1916
Line 3, Baldwin to River Junction, Fla.....	1916
Line 4, Tallahassee, Fla., to Atlanta, Ga. (part).....	1916
Line 5, Jacksonville, Fla., to Waycross, Ga. (part).....	1917
Line 6, Albany, Ga., to Callahan, Fla. (part).....	1917

Line 8, Biloxi, Miss., to River Junction, Fla. (part)-----	1918
Line 9, Cedar Keys to St. Augustine, Fla-----	1932-33
Line 10, New Smyrna to Tampa, Fla-----	1933
Line 11, Palatka to Port Inglis, Fla-----	1933
Line 12, Dunnellon to Archer, Fla-----	1933
Line 13, Fort Pierce to Punta Gorda, Fla-----	1933
Line 14, Mayport to Miami, Fla-----	1932-33
Line 15, Miami to Dunnellon, Fla-----	1933

A short paragraph descriptive of each line will be found at the beginning of the list of descriptions and elevations of the bench marks along the line.

INSTRUMENTS AND FIELD METHODS

The first-order leveling by the Coast and Geodetic Survey in Florida was all run with instrumental equipment either exactly like, or very similar to, that described in Coast and Geodetic Survey Special Publication No. 129, Geodetic Level and Rod. The field work was done in accordance with the instructions and specifications given in Coast and Geodetic Survey Special Publication No. 140, Manual of First-order Leveling.

COMPUTATIONS AND ADJUSTMENTS

The office computation of the leveling done by this Bureau in Florida was carried out in accordance with the instructions given in Special Publication No. 140, Manual of First-order Leveling. Rod and temperature corrections were applied to the observed differences and, in cases where it was necessary, the level corrections and the corrections for index errors of the rods were also applied.

These corrections, with modern leveling equipment, especially with well-graduated invar rods, are very small and usually are of small moment except in mountainous country where large differences are encountered.

The computations and corrections for the Coast and Geodetic Survey leveling were carried to four decimal places in meters until the final elevations were derived, when they were rounded off to the nearest millimeter for publication. The elevations in feet were determined by converting the metric elevations, using the factor, 1 meter=3.2808333 feet.

ORTHOMETRIC CORRECTION

Owing to the fact that the earth is an oblate spheroid, level surfaces at different elevations are not parallel but tend to converge slightly toward the poles of the earth. This necessitates the application of an orthometric correction to the observed difference of elevations in order that the resulting elevations of the bench marks may represent their true heights above mean sea level. The orthometric correction and the methods used in computing it are discussed in detail in Special Publication No. 140, Manual of First-order Leveling.

The orthometric correction reaches a maximum on north-and-south lines run at high elevations, and it is zero on east-and-west lines. The orthometric correction has been applied to the leveling included in this publication. In order that persons using this pub-

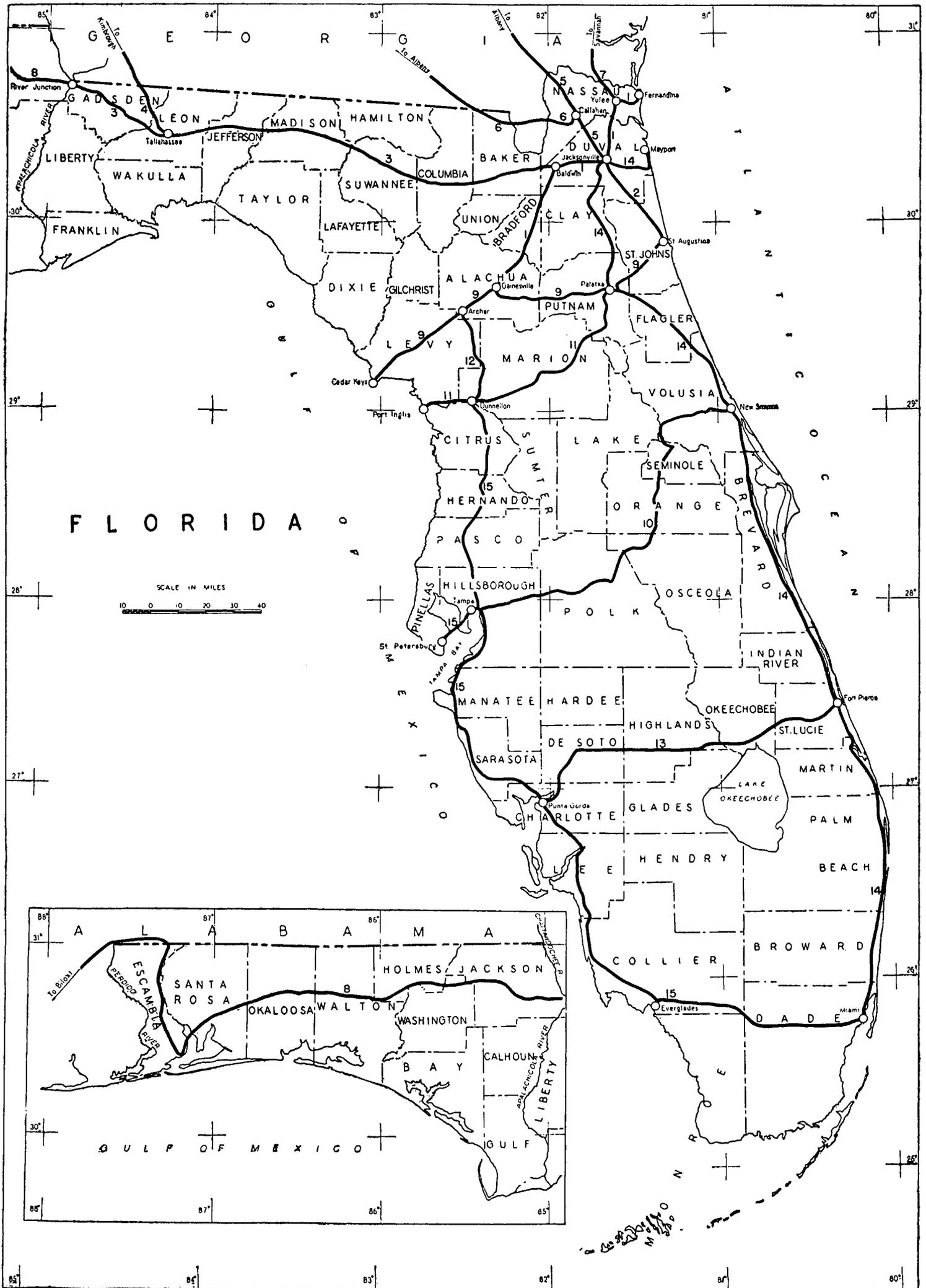


FIGURE 1.—Index map, showing leveling in Florida.

lication may form an idea as to the order of size of the orthometric correction, the following example is cited:

The difference in elevation between two bench marks at about the latitude of Orlando, Fla., in such locations that their geographic latitudes would differ by 2 minutes and the average elevation of the line of levels connecting them would be 100 feet, would require an orthometric correction of 0.0003 foot. This correction varies directly with the average elevation and with the difference in latitude between the marks and depends slightly upon the latitude. Tables for use in computing the orthometric correction are given in Special Publication No. 140.

THE 1929 GENERAL ADJUSTMENT

From time to time adjustments of the first-order level net of the United States have been made for the purpose of obtaining elevations which were, from a theoretical standpoint, nearer the exact truth than those derived from unadjusted observations or the arbitrary fitting of new lines to old adjusted values of junction points. In 1898 the first adjustment of the net was made and in 1903 there was another general adjustment. In 1907 and in 1912, adjustments of the first-order level net were made. These last two adjustments cannot be considered as strictly general adjustments for the reason that portions of the net as adjusted in 1903 were held fixed in the adjustments of 1907 and 1912.

By 1929 so much additional leveling had been run throughout the United States that a new general adjustment was needed. It was believed that the net would be considerably strengthened by the introduction of the first-order leveling of Canada. Upon request, the Geodetic Survey of Canada kindly placed at the disposal of this Bureau the results of some 20,000 miles of first-order leveling in the Dominion of Canada. This leveling, combined with about 40,000 miles of leveling in the United States, was all adjusted in a single least-squares adjustment in which mean sea level was held at zero, as observed at 26 tidal stations (21 in the United States and 5 in Canada). The elevations resulting from the general adjustment are the best elevations obtainable from the data available at the time of the adjustment.

THE FLORIDA SUPPLEMENTARY ADJUSTMENT

In 1932 and 1933 an intensive campaign of control leveling was carried out in Florida. Prior to the 1929 general adjustment, no leveling had been run in Florida south of the line from Cedar Keys to St. Augustine, and this line was rerun in 1932-33, giving new elevations throughout the line and superseding the values derived from the 1929 general adjustment.

Rather than to fit the new leveling to the 1929 general adjustment by fitting in the lines, one at a time, as they were run, it was decided to fit the new leveling in by means of a supplementary least-squares adjustment. The elevations held fixed in this adjustment, as listed below, were those of several junction bench marks from the 1929 general adjustment and those of tidal bench marks, the elevations of which above mean sea level were furnished by the

Division of Tides and Currents from varying periods of tidal observations.

Table of junction elevations held fixed in the Florida supplementary adjustment

Place	Bench mark	Elevation
Bench marks from the 1929 general adjustment:		<i>Meters</i>
Baldwin.....	M 2.....	28.4709
Callahan.....	G 7.....	6.8217
Yulee.....	A 3.....	10.9508
Tidal bench marks:		
Mayport.....	Tidal 11.....	2.0300
Miami Beach.....	Tidal 3.....	2.2616
St. Augustine.....	Tidal 8.....	1.9355
Punta Rassa.....	Tidal 5.....	1.4448
St. Petersburg.....	Tidal 1.....	1.4082
Cedar Keys.....	Tidal 11.....	2.0208

The first-order leveling in Florida was adjusted to the above-mentioned fixed points by the method of least squares. The supplementary adjustment gave elevations for all of the junction bench marks at the intersections of the various lines of leveling. Corrections were then distributed throughout the various lines in proportion to distance to obtain the final elevations of all bench marks.

As a result of this process of adjustment, the elevations of all bench marks given in this publication are in harmony with the results of the 1929 general adjustment and are the best elevations obtainable from the data available at present.

BENCH MARKS

The standard bench-mark disk now used by the Coast and Geodetic Survey is shown in figures 2 and 3. These disks are set in existing structures, in concrete posts cast in place for the special purpose, and in outcrops of rock where such outcrops are available. The concrete posts extend deep enough below the surface of the ground to be reasonably free from disturbance from frost action. They usually project a few inches above the ground to aid in their recovery.

In this publication will be found the descriptions and elevations for many points not marked with the standard disks of this Bureau. The United States Geological Survey established many of the bench marks which are included in this publication. A standard disk, somewhat similar to that used by the Coast and Geodetic Survey, forms the standard type of mark used by that Bureau. For marks of other organizations, the character of the mark is given with the description.

In starting new leveling, difficulty is sometimes encountered by field parties in connecting with bench marks which are disks set vertically in walls or which are small chiseled squares with the elevations referred to the bottoms of the holes. The wall bench marks present no difficulty if the levelman uses a tape instead of a rod in taking the sight on the bench mark. If the mark is high on the wall, a tape can be allowed to hang down from the mark, giving a "minus backsight" or a "plus foresight."

In connecting with the bottom of a chiseled square which is too small to admit the foot of an ordinary level rod, a small block can

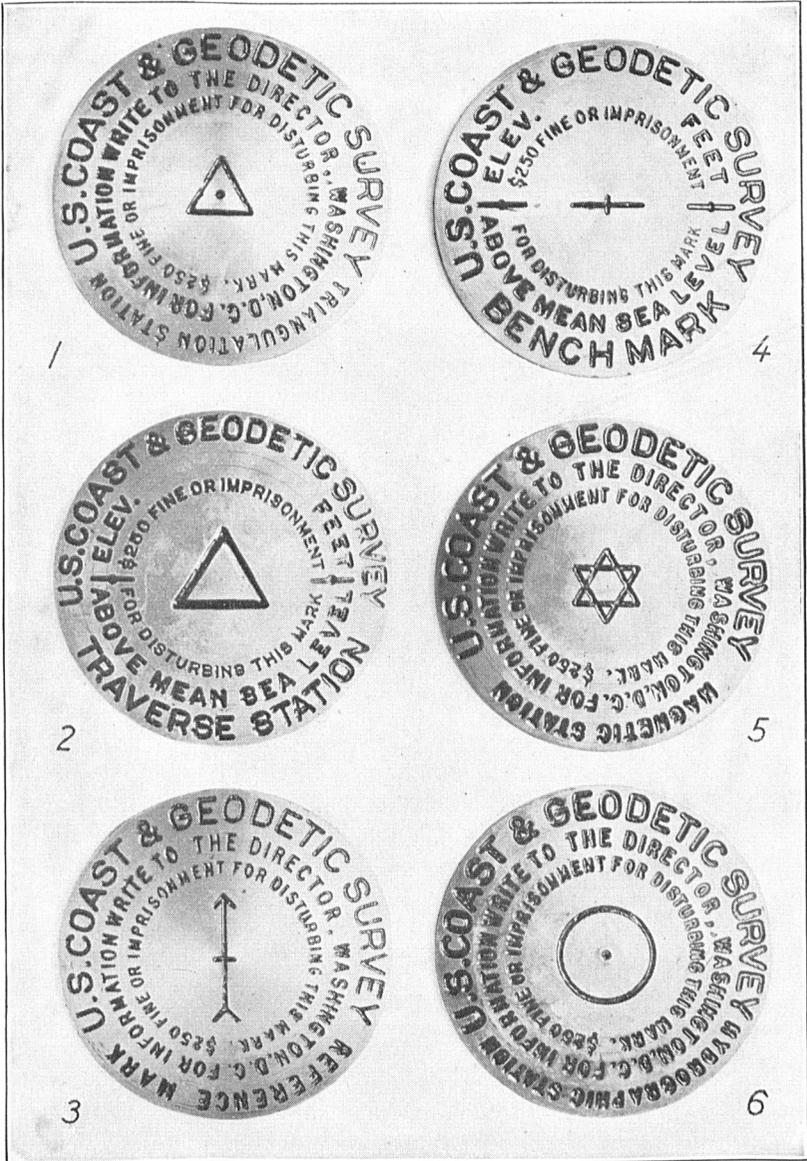


FIGURE 2.—STANDARD MARKS OF THE U.S. COAST AND GEODETIC SURVEY.

1. Triangulation station mark.
2. Traverse station mark.
3. Reference mark.

4. Bench mark.
5. Magnetic station mark.
6. Hydrographic station mark.

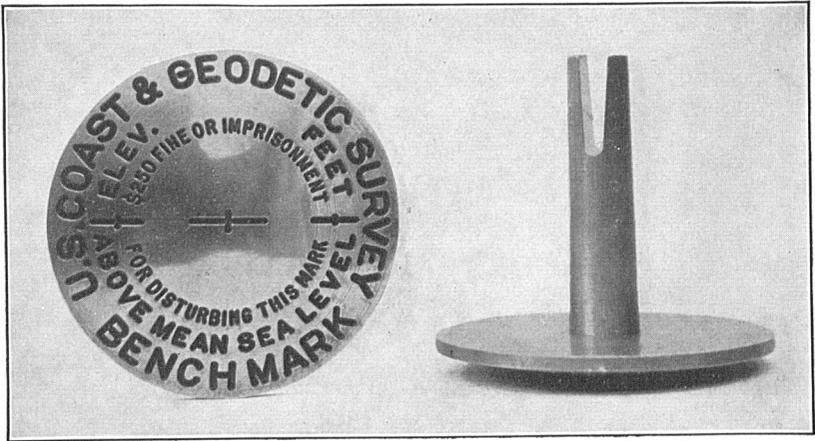


FIGURE 3.—STANDARD BENCH MARK DISK, SHOWING SHANK BY WHICH IT IS FASTENED IN PLACE.

be put in the hole. The rod is held on it for the backsight and the same block is carried forward and placed on the first turning point while the foresight is being taken. Then, if the block is removed from the first turning point before the next backsight is taken, the elevation carried forward will be the same as if the rod had been held directly on the bottom of the square. A $\frac{3}{4}$ -inch length of $\frac{1}{2}$ - or $\frac{5}{8}$ -inch dowel stick, or a similar piece of metal rod, makes an excellent block for use in small chiseled squares.

COOPERATION IN THE PRESERVATION OF BENCH MARKS

A bench mark is useful only as long as it is recoverable. When changes occur, as they often do, in the surrounding natural and cultural features with relation to which the mark is described, it becomes increasingly difficult to find the mark by means of the published description. Engineers and others who have occasion to visit

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
FORM 685
24. Oct., 1928

R

REPORT ON CONDITION OF BENCH MARK

Designation of mark F 14 State Texas County Mitchell
 Mark searched for or recovered by—(Name) Robert Muldrow
 Date June 14, 1929 (Occupation) Engineer
 (Address) Mims Bldg., Abilene, Tex.
 Present condition of the mark Good
 Letters or numbers found stamped on (not cast in) the mark None

Use the following space for reporting upon the thoroughness of the search in case mark was not recovered, or for suggesting needed changes in the published description, if the mark was recovered

This mark in good condition and has not been disturbed. The railroad station mentioned in the description has been moved one and one-half miles east.

U. S. GOVERNMENT PRINTING OFFICE: 1928

Signed Robert Muldrow

FIGURE 4.—Facsimile of form 685, Report on Condition of Bench Mark.

any bench marks established by this Bureau or other Government organizations will be doing a public service if they will report the condition of the marks and make suggestions as to needed changes in the descriptions.

Form 685, Report on Condition of Bench Mark (see fig. 4), is a 5- by 8-inch card with blanks to be filled in regarding the condition of the mark. Copies of this form will be furnished on request to anyone who may have occasion to visit any of these marks. Envelopes addressed to the Director, United States Coast and Geodetic Survey, Washington, D.C., and requiring no postage, will also be furnished for returning these reports.

The Coast and Geodetic Survey proposes to issue from time to time, probably in the form of mimeographed sheets, supplements to this publication and to other State leveling publications, in which will be given such changes in description as may be reported to this office by engineers and others who have visited any of the marks and

found the descriptions to be in need of revision. Persons or organizations who have copies of this publication and who wish to receive the supplements as they are issued should write to the Director, United States Coast and Geodetic Survey, Washington, D. C., stating the title and number of the publication for which the supplements are desired.

RAIL ELEVATIONS

Interspersed throughout the descriptions and elevations of bench marks will be found the descriptions and elevations, in tenths of feet, of tops of rails opposite railroad stations or at railroad and highway crossings. These elevations are approximate only, since the track does not accurately maintain a constant elevation for any great length of time.

DESCRIPTIONS AND ELEVATIONS OF BENCH MARKS

LINE 1, GAINESVILLE TO FERNANDINA, FLA.

[First-order leveling]

This line follows the Seaboard Air Line Railway from Gainesville, through Waldo, Starke, Baldwin, Jacksonville, and Yulee, to Fernandina. The field work was done, during the spring of 1916, by a party in charge of G. D. Cowie, assistant.

For bench marks in the vicinity of Gainesville, see pages 34 and 35.

U 1.—About 3.6 miles northeast along the Seaboard Air Line Railway from the station at Gainesville, Alachua County, about 80 yards north of milepost 95, opposite an old still, near a crossing, about 25 yards west of the track, in line with a row of poles. A standard disk, set in the top of a concrete post. (49.205 meters or 161.433 feet.)

V 1.—At Fairbanks, Alachua County, about 23 yards south of the Seaboard Air Line Railway station, and 10 yards west of the track, in line with a row of poles. A standard disk, set in the top of a concrete post. (49.509 meters or 162.431 feet.)

Fairbanks, top of rail opposite the Seaboard Air Line Railway station. (161.5 feet.)

W 1=P.T.S. 55 (U.S.G.S.).—At Fairbanks, Alachua County, about 450 feet north of the Seaboard Air Line Railway station, at the post office, 10 feet southwest of the southwest corner of the building, in the southeast corner of the enclosure. A United States Geological Survey standard cap, stamped "163 PRIM. TRAV. STA. 55" and riveted on the top of a 3½-inch iron pipe. (49.521 meters or 162.470 feet.)

X 1=P.T.S. 56 (U.S.G.S.).—About 3 miles northeast along the Seaboard Air Line Railway from the station at Fairbanks, Alachua County, near Milligan's still, about 150 feet southwest of the east end of a switch, in the southwest corner of the crossing. A United States Geological Survey standard cap, stamped "157 PRIM. TRAV. STA. 56" and riveted on the top of a 3½-inch iron pipe. (47.870 meters or 157.053 feet.)

Y 1.—At Waldo, Alachua County, about 13 yards north of a point 30 yards west of the Seaboard Air Line Railway station, about 16 yards from the corner of the Waldo Hotel, and about 9 yards east of the street. A standard disk, set in the top of a concrete post. (47.360 meters or 155.380 feet.)

Z 1=P.T.S. 57 (U.S.G.S.).—At Waldo, Alachua County, at the southeast corner of the school building. A United States Geological Survey standard cap, stamped "PRIM. TRAV. STA. 57" and riveted on the top of a 3½-inch iron pipe. (47.719 meters or 156.558 feet.)

A 2.—About 2.8 miles northeast along the Seaboard Air Line Railway from the station at Waldo, Alachua County, about 100 yards north of milepost 82, near a road crossing, about 20 yards west of the track, in line with a row

of poles. A standard disk, set in the top of a concrete post. (43.205 meters or 141.945 feet.)

B 2=P.T.S. 79 (U.S.G.S.).—At Hampton, Bradford County, about 150 feet east of the northeast corner of the Seaboard Air Line Railway station, 50 feet south of the northwest corner of the hotel, 8 feet north of the pavement, and 2 feet south of an old concrete well top. A United States Geological Survey standard cap, stamped "150 PRIM. TRAV. STA. NO. 79" and riveted on the top of a 3½-inch iron pipe. (43.992 meters or 144.330 feet.)

C 2.—At Hampton, Bradford County, about 50 yards southwest of the Seaboard Air Line Railway station, about 40 yards south of a house, and about 20 yards west of the track, in line with a row of poles. A standard disk, set in the top of a concrete post. (45.172 meters or 148.202 feet.)

D 2.—About 3 miles northeast along the Seaboard Air Line Railway from Hampton, Bradford County, about 0.2 mile south of milepost 76, near an irrigation ditch, about 15 yards west of the track, near the fence line. A standard disk, set in the top of a concrete post. (47.513 meters or 155.882 feet.)

E 2.—Destroyed. (50.326 meters or 165.111 feet.)

F 2=P.T.S. 69 (U.S.G.S.).—About 2.4 miles south along the Seaboard Air Line Railway from the station at Lawtey, Bradford County, at Saxton, about 400 feet north of a crossing, 50 feet northeast of a one-story frame house, and 30 feet west of the track, at the outer corner of a fence. A United States Geological Survey standard cap, stamped "165 PRIM. TRAV. STA. 69" and riveted on the top of a 3½-inch iron pipe. (50.164 meters or 164.580 feet.)

Lawtey, top of rail opposite the Seaboard Air Line Railway station. (163.0 feet.)

G 2.—At Lawtey, Bradford County, about 20 yards west of the Seaboard Air Line Railway station, and about 20 yards east of the Lawtey State Bank. A standard disk, set in the top of a concrete post. (49.126 meters or 161.174 feet.)

H 2.—In Bradford County, about 1½ miles south along the Seaboard Air Line Railway from the station at Highland, Clay County, at milepost 63, about 20 yards west of the track. A standard disk, set in the top of a concrete post. (63.274 meters or 174.783 feet.)

Highland, top of rail opposite the Seaboard Air Line Railway station. (206.1 feet.)

I 2.—About 2 miles north along the Seaboard Air Line Railway from the station at Highland, Clay County, about ½ mile south of milepost 59, and about 120 yards north of bridge 59.6, near an abandoned road crossing, about 12 yards west of the track. A standard disk, set in the top of a concrete post. (51.476 meters or 168.884 feet.)

J 2.—In Clay County, about 2¼ miles south along the Seaboard Air Line Railway from Maxville, Duval County, about ¼ mile south of milepost 56, near a road crossing, and 50 feet west of the track. A standard disk, set in the top of a concrete post. (31.160 meters or 102.231 feet.)

Maxville, top of rail opposite the Seaboard Air Line Railway station. (95.6 feet.)

K 2.—About 1 mile north along the Seaboard Air Line Railway from Maxville, Duval County, about ½ mile south of milepost 53, opposite "Station one mile" sign, and about 15 yards west of the track. A standard disk, set in the top of a concrete post. (27.596 meters or 90.538 feet.)

L 2.—At Fiftone, Duval County, opposite an old sawmill, about 15 yards east of the Seaboard Air Line Railway track, in line with an old fence, on a high ridge about 50 yards south of a road crossing. A standard disk, set in the top of a concrete post. (27.683 meters or 90.823 feet.)

Fiftone, top of rail opposite the Seaboard Air Line Railway station. (91.2 feet.)

M 2.—At Baldwin, Duval County, about 40 yards southwest of the Seaboard Air Line Railway station, and about 13 yards north of the south end of the station shed, midway between the tracks, near a pole. A standard disk, set in the top of a concrete post. (26.477 meters or 86.867 feet.)

Baldwin, top of rail at the intersection of the two branches of the Seaboard Air Line Railway. (87.0 feet.)

For additional bench marks in the vicinity of Baldwin, see page 12.

N 2.—About 4 miles west along the Seaboard Air Line Railway from the station at Whitehouse, Duval County, near milepost C 194, and 20 feet north of the tracks. A standard disk, set in the top of a concrete post. (26.040 meters or 85.433 feet.)

Millerton, top of rail opposite the Seaboard Air Line Railway station. (92.9 feet.)

O 2.—At **Whitehouse**, Duval County, about 24 yards west of the Seaboard Air Line Railway station, about 8 yards south of the tracks, near a crossing sign. A standard disk, set in the top of a concrete post. (26.022 meters or 85.374 feet.)

Whitehouse, top of rail opposite the Seaboard Air Line Railway station. (85.3 feet.)

P 2.—About 6½ miles west along the Seaboard Air Line Railway from **Jacksonville**, Duval County, about ½ mile east of **Marietta**, 7 poles west of milepost 7, and about 15 yards south of the track. A standard disk, set in the top of a concrete post. (14.488 meters or 47.533 feet.)

Q 2.—About 4 miles west along the Seaboard Air Line Railway from **Jacksonville**, Duval County, about 3 yards north of milepost 4, and about 10 yards north of the track. A standard disk, set in the top of a concrete post. (7.156 meters or 23.478 feet.)

R 2.—At **Jacksonville**, Duval County, at the Hotel Mayflower on Bay Street, in the south face near the southeast corner. A standard disk, stamped "R 2." (4.456 meters or 14.619 feet.)

S 2.—At **Jacksonville**, Duval County, at 32 to 44 West Bay Street, at the S. B. Hubbard Co. Store, at the north entrance, in the west face of the west pillar. A standard disk, stamped "S 2." (2.982 meters or 9.783 feet.)

T 2.—At **Jacksonville**, Duval County, at the old county courthouse, in the east face near the northeast corner. A standard disk, stamped "T 2." (6.609 meters or 21.683 feet.)

For additional bench marks in the vicinity of Jacksonville, see pages 10, 18, 70, and 71.

U 2.—Destroyed. (7.795 meters or 25.574 feet.)

V 2.—At **Panama Park**, Duval County, opposite the Seaboard Air Line Railway station, about 20 yards east of the tracks. A standard disk, set in the top of a concrete post. (5.321 meters or 17.457 feet.)

Panama Park, top of rail opposite the Seaboard Air Line Railway station. (14.6 feet.)

W 2.—About 3½ miles south along the Seaboard Air Line Railway from **Duval**, Duval County, 604 feet south of the south end of a trestle, 29 feet west of the west rail, and 32 feet east of the center line of a dirt road. A standard disk, stamped "W 2" and set in the top of a concrete post projecting about 7 inches above ground. (5.228 meters or 17.152 feet.)

Broward, top of rail opposite the Seaboard Air Line Railway station. (33.8 feet.)

X 2.—At **Duval**, Duval County, on the Seaboard Air Line Railway, about 0.4 mile north of milepost 623, about 1,750 feet north of automatic semaphore 6228, opposite a switch stand, and 49 feet east of the west rail. A standard disk, stamped "X 2" and set in the top of a concrete post. (11.761 meters or 38.586 feet.)

NOTE.—A report, dated February 1933, stated that the concrete post projected about 2½ feet above ground, and was very loose. This bench mark should not be used to control important leveling without checking against additional bench marks.

Duval, top of rail opposite the Seaboard Air Line Railway station. (39.7 feet.)

Y 2.—At **Tisonia**, Duval County, about 70 yards north of the Seaboard Air Line Railway station, and about 20 yards east of the tracks. A standard disk, set in the top of a concrete post. (9.279 meters or 30.443 feet.)

Tisonia, top of rail opposite the Seaboard Air Line Railway station. (30.6 feet.)

Z 2.—About 2.9 miles south along the Seaboard Air Line Railway from **Yulee**, Nassau County, about ⅓ mile north of a shack in a clump of trees on the north side of a large swamp, and 13 yards east of the tracks. A standard disk, set in the top of a concrete post. (3.486 meters or 11.437 feet.)

A 3.—At **Yulee**, Nassau County, about 70 yards east of a water tank, about 18 yards northeast of the Savannah-Jacksonville branch of the Seaboard Air Line Railway, and about 35 yards southeast of the Baldwin-Fernandina branch. A standard disk, set in the top of a concrete post. (10.951 meters or 35.928 feet.)

For additional bench marks in the vicinity of Yulee, see page 21.

B 3.—About $\frac{1}{2}$ mile west along the Seaboard Air Line Railway from **Lifton**, Nassau County, about 100 yards west of milepost 9, and about 13 yards south of the tracks. A standard disk, set in the top of a concrete post. (10.472 meters or 34.357 feet.)

Lifton, top of rail opposite the Seaboard Air Line Railway station. (32.6 feet.)

C 3.—At **O'Neill**, Nassau County, about 5 yards west of the southwest corner of the Seaboard Air Line Railway station, in line with the row of poles. A standard disk, set in the top of a concrete post. (4.160 meters or 13.648 feet.)

O'Neill, top of rail opposite the Seaboard Air Line Railway station. (13.4 feet.)

D 3.—About 3 miles south along the Seaboard Air Line Railway from **Fernandina**, Nassau County, near the "Drawbridge one mile" sign, about 3 yards west of milepost 3, and about 12 yards west of the tracks. A standard disk, set in the top of a concrete post. (3.392 meters or 11.129 feet.)

Tidal 22.—At **Fernandina**, Nassau County, at the northeast corner of Sixth and Beach Streets, inside the fence at the southwest corner of the Egmont Block, 8 inches south of the brick pier supporting the southwest corner of the southwest house in the block. The center of the top of a granite post 6 inches square, marked "U.S.C.S.", and set on a cemented brick foundation. (5.971 meters or 19.590 feet.)

Tidal 21.—At **Fernandina**, Nassau County, at the corner of Sixth and Beach Streets, on the cap of the hydrant. The top of the north nut. (6.272 meters or 20.577 feet.)

Tidal 20.—At **Fernandina**, Nassau County, at the corner of Sixth and Ash Streets, on the cap of the hydrant. The top of the south nut. (6.100 meters or 20.013 feet.)

Tidal 19.—At **Fernandina**, Nassau County, at the corner of Fifth and Ash Streets, on the cap of the hydrant. The top of the northeast nut. (5.502 meters or 18.051 feet.)

Tidal 16.—At **Fernandina**, Nassau County, at the corner of Fifth and Center Streets, on the cap of the hydrant. The top of the southeast nut. (5.529 meters or 18.140 feet.)

Tidal 17.—At **Fernandina**, Nassau County, at the corner of Fifth and Center Streets, on the east side of the county courthouse, on the north end of the steps, and about 1 yard from the brick wall. The top of the granite coping stone, marked "B.M. 17." (5.752 meters or 18.871 feet.)

Tidal 29.—At **Fernandina**, Nassau County, at the southwest corner of Fifth and Center Streets, in the yard of the county courthouse, 28 feet west of the building, and 40 feet from the sidewalk on Center Street, on the top of a 3- by $1\frac{1}{2}$ -foot concrete pier extending $3\frac{1}{2}$ feet above ground. The "0" of the inscription "U.S.C.G.S. 07." (5.362 meters or 17.592 feet.)

Tidal 28.—At **Fernandina**, Nassau County, at the northeast corner of Fourth and Center Streets, on the Center Street side of the post office, 2 feet east of the siding of the entrance steps, 2 feet higher than the ground, and 2.7 feet below a ledge or water table. The highest point of a small water pipe extending about $3\frac{1}{4}$ inches out from the south wall. (5.645 meters or 18.520 feet.)

E 3.—At **Fernandina**, Nassau County, at the northeast corner of Fourth and Center Streets, on the Center Street side of the post office, $\frac{1}{2}$ foot from the Fourth Street side, and 2 feet below the water table. A standard disk. (5.788 meters or 18.989 feet.)

Tidal 15.—At **Fernandina**, Nassau County, at the corner of Fourth and Center Streets, on the cap of the hydrant. The top of the southeast nut. (4.510 meters or 14.797 feet.)

Tidal 12.—At **Fernandina**, Nassau County, at the corner of Second and Alachua Streets, on the cap of the hydrant. The top of the northeast nut. (3.088 meters or 10.131 feet.)

Tidal 11.—At **Fernandina**, Nassau County, at the corner of Second and Broome Streets, on the cap of the hydrant. The top of the southeast nut. (3.359 meters or 11.020 feet.)

Tidal 9.—At **Fernandina**, Nassau County, at the corner of Second and Calhoun Streets, on the cap of the hydrant. The top of the southwest nut. (4.445 meters or 14.583 feet.)

Tidal 7.—At **Fernandina**, Nassau County, at the corner of Second and DeSoto Streets, on the cap of the hydrant. The top of the east nut. (4.879 meters or 16.007 feet.)

Tidal 27.—At **Fernandina**, Nassau County, near the northeast corner of Front and DeSoto Streets, 34 feet north of the center line of DeSoto Street, 33 feet east of the nearest rail of the railroad track, and 53 feet north of a fire hydrant at the southeast corner of the street intersection. The center of a cross cut in a circle on a brass cap fastened to an iron pipe, and set nearly flush with the ground. (3.033 meters or 9.951 feet.)

Tidal 8=Conant B.M.—At **Fernandina**, Nassau County, at the southeast corner of Second and DeSoto Streets, 25 feet south of DeSoto Street, and 10 feet east of Second Street, near the south side of the southeast corner house, in the root on the northwest side of a cedar stump 10 feet high. A bolt driven vertically. (4.563 meters or 14.970 feet.)

Tidal 25.—At **Fernandina**, Nassau County, on the west side of Front Street, at the foot of DeSoto Street, on a heavy board nailed to a pile just south of the tide house. The top of the metal plates upon which the portable tide staff is supported when in use. (2.265 meters or 7.431 feet.)

Tidal 26.—At **Fernandina**, Nassau County, near the southwest corner of Front and DeSoto Streets, 25 feet south of the center line of DeSoto Street, 100 feet east of the water's edge, 43 feet east of a railroad track, 35 feet west of another, and 79½ feet west of the northwest corner of the freight-house platform. A straight line cut within a circle on a brass cap, fastened to an iron pipe, and set nearly flush with the ground. (1.670 meters or 5.479 feet.)

LINE 2, JACKSONVILLE TO ST. AUGUSTINE, FLA.

[First-order leveling]

This line follows the Florida East Coast Railway from Jacksonville to St. Augustine. The field work was done, during the spring of 1916, by a party in charge of G. D. Cowie, assistant.

For additional bench marks in the vicinity of Jacksonville, see pages 8, 18, 70, and 71.

F 3.—At **Jacksonville**, Duval County, on the Florida East Coast Railway, at the railroad bridge over St. Johns River, in the south abutment. A brass screw, set in concrete and surrounded by the marking "B.M. ELEV. 11.02 FT." (3.448 meters or 11.312 feet.)

G 3.—At **Jacksonville**, Duval County, at the northeast corner of Kings Avenue and Louisa Street, in the west wall of the Thomas Building, 21.1 feet north of the north property line of Louisa Street. A standard disk, set vertically. (2.910 meters or 9.547 feet.)

H 3.—At **Jacksonville**, Duval County, at the northwest corner of St. Johns and Hendricks Avenues, in the south face of the building formerly occupied by the Bank of South Jacksonville, 9.4 feet west of the west property line of Hendricks Avenue. A standard disk, set vertically. (3.106 meters or 10.190 feet.)

Jacksonville, top of rail opposite the Florida East Coast Railway station. (8.0 feet.)

Top of rail opposite Florida East Coast Railway milepost 3. (31.4 feet.)

Top of rail opposite Florida East Coast Railway milepost 4. (30.9 feet.)

I 3.—Destroyed. (8.334 meters or 27.342 feet.)

I 3 (Reset).—At **Bowden**, Duval County, on the Florida East Coast Railway, about 1,000 feet north of milepost Jax 5, near Center Avenue, 96 feet west of the track, opposite a cattle chute. A standard disk, set in the top of a concrete post. (27.19 feet.)

NOTE.—This bench mark was established and its elevation determined by engineers of the Florida East Coast Railway in July 1924.

Top of rail opposite Florida East Coast Railway milepost 5. (30.3 feet.)

Top of rail opposite Florida East Coast Railway milepost 6. (26.7 feet.)

Top of rail opposite Florida East Coast Railway milepost 7. (26.1 feet.)

Top of rail opposite Florida East Coast Railway milepost 8. (23.7 feet.)

Top of rail opposite Florida East Coast Railway milepost 9. (31.3 feet.)

J 3.—At **Sunbeam**, Duval County, about 100 feet north of the Florida East Coast Railway station, and 35 feet east of the track, in line with a row of poles. A standard disk, set in the top of a concrete post. (7.791 meters or 25.561 feet.)

Sunbeam, top of rail opposite the Florida East Coast Railway station. (27.0 feet.)

Top of rail opposite Florida East Coast Railway milepost 10. (34.6 feet.)

Top of rail opposite Florida East Coast Railway milepost 11. (29.3 feet.)

Top of rail opposite Florida East Coast Railway milepost 12. (27.4 feet.)

K 3.—At **Greenland**, Duval County, about 100 feet south of the Florida East Coast Railway station, and 35 feet west of the track, in line with a row of poles. A standard disk, set in the top of a concrete post. (6.521 meters or 21.394 feet.)

Greenland, top of rail opposite the Florida East Coast Railway station. (23.8 feet.)

Top of rail opposite Florida East Coast Railway milepost 13. (20.5 feet.)

Top of rail opposite Florida East Coast Railway milepost 14. (27.8 feet.)

L 3.—At **Bayard**, Duval County, about 50 feet north of the Florida East Coast Railway station, and 35 feet east of the track. A standard disk, set in the top of a concrete post. (7.697 meters or 25.253 feet.)

Top of rail opposite Florida East Coast Railway milepost 15. (26.2 feet.)

Bayard, top of rail opposite the Florida East Coast Railway station. (25.6 feet.)

Top of rail opposite Florida East Coast Railway milepost 16. (28.3 feet.)

Top of rail opposite Florida East Coast Railway milepost 17. (27.5 feet.)

M 3.—About $2\frac{3}{4}$ miles south along the Florida East Coast Railway from **Bayard**, Duval County, 3 feet from milepost Jax 18, and 35 feet west of the track. A standard disk, set in the top of a concrete post. (6.523 meters or 21.401 feet.)

Top of rail opposite Florida East Coast Railway milepost 18. (26.3 feet.)

Top of rail opposite Florida East Coast Railway milepost 19. (24.4 feet.)

Top of rail opposite Florida East Coast Railway milepost 20. (53.0 feet.)

N 3.—At **Durbin**, St. Johns County, on the Florida East Coast Railway, opposite the south end of the station shed, and 35 feet east of the track. A standard disk, set in the top of a concrete post. (18.351 meters or 60.207 feet.)

Top of rail opposite Florida East Coast Railway milepost 21. (60.7 feet.)

Durbin, top of rail opposite the Florida East Coast Railway station. (60.8 feet.)

Top of rail opposite Florida East Coast Railway milepost 22. (56.6 feet.)

Top of rail opposite Florida East Coast Railway milepost 23. (37.8 feet.)

Top of rail opposite Florida East Coast Railway milepost 24. (33.6 feet.)

O 3.—At **Woodlawn**, St. Johns County, on the Florida East Coast Railway, opposite a switch stand at the south end of a siding, near a private-road crossing, and about 35 feet west of the track. A standard disk, set in the top of a concrete post. (12.137 meters or 39.819 feet.)

Top of rail opposite Florida East Coast Railway milepost 25. (46.8 feet.)

Top of rail opposite Florida East Coast Railway milepost 26. (46.4 feet.)

Top of rail opposite Florida East Coast Railway milepost 27. (44.5 feet.)

P 3.—At **Sampson**, St. Johns County, on the Florida East Coast Railway, about 325 feet north of a telegraph booth, and 40 feet east of the track, in line with a row of poles. A standard disk, set in the top of a concrete post. (11.553 meters or 37.903 feet.)

Top of rail opposite the Florida East Coast Railway milepost 28. (37.2 feet.)

Top of rail opposite the Florida East Coast Railway milepost 29. (30.2 feet.)

Top of rail opposite the Florida East Coast Railway milepost 30. (17.3 feet.)

Top of rail opposite the Florida East Coast Railway milepost 31. (14.0 feet.)

Q 3.—About $5\frac{1}{2}$ miles north along the Florida East Coast Railway from **St. Augustine**, St. Johns County, at **Magnolia Grove**, about 450 feet south of the point of switch of a siding leading from the north-bound track, 205 feet south of a private-road crossing, 60 feet west of the center line of State Highway 4, 37 feet east of the east rail of the north-bound track, and 4 inches higher than the ground. A standard disk, set in the top of a concrete post. (3.306 meters or 10.846 feet.)

NOTE.—A report, dated December 1932, states that the disk is stamped "Q 3 1914."

Magnolia Grove, top of rail opposite the Florida East Coast Railway station. (12.0 feet.)

Top of rail opposite Florida East Coast Railway milepost 32. (15.4 feet.)

Top of rail opposite Florida East Coast Railway milepost 33. (15.8 feet.)

R 3.—About $2\frac{1}{2}$ miles north along the Florida East Coast Railway from **St. Augustine**, St. Johns County, 350 feet east of the southeast corner of the railway shops, 5 feet north of milepost **Jax 34**, about 125 feet west of State Highway 4, 12 feet west of the west rail of the main track, and about $1\frac{1}{2}$ feet higher than the ground. A standard disk, set in the top of a concrete post. (2.895 meters or 9.498 feet.)

NOTE.—A report, dated December 1932, states that the disk is stamped "R 3 1914."

For additional bench marks in the vicinity of **St. Augustine**, see pages 39 and 40.

LINE 3, BALDWIN TO RIVER JUNCTION, FLA.

[First-order leveling]

This line follows the Seaboard Air Line Railway from **Baldwin** to **River Junction**. The field work was done, during the summer of 1916, by a party in charge of **G. D. Cowie**, assistant.

NOTE.—A report, dated March 1933, states that the mileposts in the vicinity of **Live Oak, Fla.**, have been changed. On the basis of this report, it would seem that the new mileages can be approximated by adding 633.8 to the old mileage, providing that the mileposts have been changed uniformly throughout the line.

For bench marks in the vicinity of **Baldwin**, see page 7.

W 3.—About $3\frac{1}{2}$ miles west along the Seaboard Air Line Railway from **Baldwin**, Duval County, about $\frac{1}{2}$ mile west of old milepost **J 22**, 25 feet from the dead end of a siding, and 40 feet north of the main track. A standard disk, stamped "W 3" and set in the top of a concrete post. (24.092 meters or 79.042 feet.)

X 3.—About $2\frac{1}{2}$ miles east along the Seaboard Air Line Railway from **McClenny**, Baker County, about 0.4 mile west of old milepost **J 25**, and 25 feet north of the track, in line with a row of poles. A standard disk, stamped "X 3" and set in the top of a concrete post. (46.733 meters or 153.323 feet.)

Y 3.—At **McClenny**, Baker County, about 130 feet west of the Seaboard Air Line Railway station, and 25 feet north of the track, in line with a row of poles. A standard disk, stamped "Y 3" and set in the top of a concrete post. (40.174 meters or 131.804 feet.)

McClenny, top of rail opposite the Seaboard Air Line Railway station. (132.9 feet.)

D 4.—At **McClenny**, Baker County, at the east end of the county courthouse, in the north bay window. A standard disk, stamped "D 4." (41.443 meters or 135.968 feet.)

Glen St. Mary, top of rail opposite Seaboard Air Line Railway station. (134.3 feet.)

Z 3.—About 1 mile west along the Seaboard Air Line Railway from **Glen St. Mary**, Baker County, near old milepost **C 178**, and 25 feet north of the track, in line with a row of poles. A standard disk, stamped "Z 3" and set in the top of a concrete post. (39.072 meters or 128.189 feet.)

A 4.—About 4 miles west along the Seaboard Air Line Railway from **Glen St. Mary**, Baker County, near old milepost **C 175**, and 25 feet north of the track, in line with a row of poles. A standard disk, stamped "A 4" and set in the top of a concrete post. (40.896 meters or 134.173 feet.)

B 4.—At **Sanderson**, Baker County, about 165 feet east of the Seaboard Air Line Railway station, and 25 feet north of the track, in line with a row of poles. A standard disk, stamped "B 4" and set in the top of a concrete post. (47.774 meters or 156.739 feet.)

Sanderson, top of rail opposite the Seaboard Air Line Railway station. (157.5 feet.)

C 4.—About 3 miles west along the Seaboard Air Line Railway from **Sanderson**, Baker County, at old milepost **C 169**, and 25 feet north of the track, in line with a row of poles. A standard disk, stamped "C 4" and set in the top of a concrete post. (51.157 meters or 167.838 feet.)

E 4.—About 6 miles west along the Seaboard Air Line Railway from **Sanderson**, Baker County, at old milepost C 166, and 25 feet north of the track, in line with a row of poles. A standard disk, stamped "E 4" and set in the top of a concrete post. (53.098 meters or 174.206 feet.)

F 4.—At **Olustee**, Baker County, about 40 feet east of the Seaboard Air Line Railway station, 25 feet north of the track, and near old milepost C 162. A standard disk, stamped "F 4" and set in the top of a concrete post. (49.165 meters or 161.302 feet.)

Olustee, top of rail opposite the Seaboard Air Line Railway station. (162.5 feet.)

G 4.—About 3 miles west along the Seaboard Air Line Railway from **Olustee**, Baker County, near old milepost C 159, and 25 feet north of the track. A standard disk, stamped "G 4" and set in the top of a concrete post. (62.730 meters or 172.998 feet.)

H 4.—About 6 miles west along the Seaboard Air Line Railway from **Olustee**, Baker County, near old milepost C 156, and 25 feet north of the track. A standard disk, stamped "H 4" and set in the top of a concrete post. (54.711 meters or 179.498 feet.)

I 4.—About 1 mile east along the Seaboard Air Line Railway from **Watertown**, Columbia County, near old milepost C 152, and 25 feet north of the track. A standard disk, stamped "I 4" and set in the top of a concrete post. (61.425 meters or 201.525 feet.)

Watertown, top of rail opposite the Seaboard Air Line Railway station. (191.5 feet.)

Watertown, top of rail at the intersection of the Seaboard Air Line Railway and the Georgia Southern & Florida Railroad. (188.6 feet.)

J 4.—At **Lake City**, Columbia County, about 165 feet east of the Seaboard Air Line Railway station, 35 feet east of the water tank, and 25 feet south of the track, near a pole. A standard disk, stamped "J 4" and set in the top of a concrete post. (59.634 meters or 195.649 feet.)

Lake City, top of rail opposite the Seaboard Air Line Railway station. (196.9 feet.)

K 4.—At **Lake City**, Columbia County, at the Seaboard Air Line Railway station, in the brick wall under the ticket office window. A standard disk, stamped "K 4." (60.829 meters or 199.570 feet.)

L 4.—About 2½ miles west along the Seaboard Air Line Railway from **Lake City**, Columbia County, at old milepost C 147, near the west end of a slight cut, and 25 feet north of the track. A standard disk, stamped "L 4" and set in the top of a concrete post. (42.810 meters or 140.452 feet.)

M 4.—About 5¾ miles west along the Seaboard Air Line Railway from **Lake City**, Columbia County, at **Ogden** siding, near old milepost C 144, and 25 feet north of the track. A standard disk, stamped "M 4" and set in the top of a concrete post. (32.570 meters or 106.857 feet.)

McKinley, top of rail opposite the Seaboard Air Line Railway station. (124.4 feet.)

N 4.—About 8¾ miles west along the Seaboard Air Line Railway from **Lake City**, Columbia County, at old milepost C 141, and 25 feet north of the track. A standard disk, stamped "N 4" and set in the top of a concrete post. (45.718 meters or 149.977 feet.)

O 4.—At **Wellborn**, Suwannee County, on the Seaboard Air Line Railway, about 165 feet southwest of the station, and 35 feet south of the track. A standard disk, stamped "O 4" and set in the top of a concrete post. (58.788 meters or 192.874 feet.)

Wellborn, top of rail opposite the Seaboard Air Line Railway station. (192.6 feet.)

P 4.—About 3½ miles west along the Seaboard Air Line Railway from **Wellborn**, Suwannee County, near old milepost C 135, and 25 feet north of the track. A standard disk, stamped "P 4" and set in the top of a concrete post. (58.870 meters or 189.881 feet.)

Q 4.—At **Houston**, Suwannee County, on the Seaboard Air Line Railway, about 165 feet west of the station, and 25 feet south of the track, in line with a row of poles. A standard disk, stamped "Q 4" and set in the top of a concrete post. (51.882 meters or 170.216 feet.)

Houston, top of rail opposite the Seaboard Air Line Railway station. (170.7 feet.)

R 4.—About 2¾ miles east along the Seaboard Air Line Railway from **Live Oak**, Suwannee County, 165 feet east of old milepost C 130, and 25 feet north

of the track. A standard disk, stamped "R 4" and set in the top of a concrete post. (32.370 meters or 106.201 feet.)

S 4.—At **Live Oak**, Suwannee County, on the Seaboard Air Line Railway, about 230 feet east of the Union Station, 35 feet north of the track, and 3 feet east of the east fence of a formal garden on the right-of-way. A standard disk, stamped "S 4" and set in the top of a concrete post. (31.949 meters or 104.819 feet.)

T 4.—At **Live Oak**, Suwannee County, in the south face of the Union Station, below the ticket office window. A standard disk, stamped "T 4." (32.765 meters or 107.497 feet.)

Live Oak, top of rail opposite the Seaboard Air Line Railway station. (105.0 feet.)

Live Oak, top of rail at the intersection of the Live Oak, Perry & Gulf Railroad and the Seaboard Air Line Railway. (106.8 feet.)

U 4.—At **Live Oak**, Suwannee County, in the east face of the county courthouse, near the northeast corner. A standard disk, stamped "U 4." (32.344 meters or 106.115 feet.)

V 4.—At **Live Oak**, Suwannee County, in the north face of the post office, near the northeast corner. A standard disk, stamped "V 4." (34.428 meters or 112.953 feet.)

W 4.—About 3½ miles west along the Seaboard Air Line Railway from **Live Oak**, Suwannee County, about 1,230 feet east of milepost 719 (formerly 80 feet east of old milepost 85), 40 feet north of the north rail of the track, and 35 feet south of a dirt road which parallels the track. A standard disk, stamped "W 4" and set in the top of a concrete post. (35.187 meters or 115.443 feet.)

X 4.—About 6½ miles west along the Seaboard Air Line Railway from **Live Oak**, Suwannee County, about 1,535 feet east of milepost 722 (formerly near old milepost 88), about 490 feet west of a frog point in a siding, about 35 feet north of the south rail of the main track, about 125 feet from the center line of a concrete culvert head wall under Highway 17, and 60 feet northeast of pole E 51. A standard disk, stamped "X 4" and set in the top of a concrete post. (29.495 meters or 96.768 feet.)

Y 4.—At **Falmouth**, Suwannee County, about 90 feet northeast of the southeast corner of the Seaboard Air Line Railway station, 75 feet northeast of the northeast corner of the station, and 75 feet southeast of the southeast corner of W. A. Nobel's general store. A standard disk, stamped "Y 4" and set in the top of a concrete post projecting about 8 inches above the ground. (28.714 meters or 94.206 feet.)

Falmouth, top of rail opposite the Seaboard Air Line Railway station. (90.3 feet.)

Z 4.—At **Ellaville**, Madison County, about 65 feet south of the Seaboard Air Line Railway station. A standard disk, stamped "Z 4" and set in the top of a concrete post. (18.505 meters or 60.712 feet.)

Ellaville, top of rail opposite the Seaboard Air Line Railway station. (61.1 feet.)

A 5.—About 3 miles west along the Seaboard Air Line Railway from **Ellaville**, Madison County, at old milepost 98, and 25 feet north of the track. A standard disk, stamped "A 5" and set in the top of a concrete post. (25.870 meters or 84.875 feet.)

B 5.—About 6 miles west along the Seaboard Air Line Railway from **Ellaville**, Madison County, at old milepost 101, and 25 feet north of the track. A standard disk, stamped "B 5" and set in the top of a concrete post. (27.210 meters or 89.271 feet.)

Lee, top of rail opposite the Seaboard Air Line Railway station. (93.6 feet.)

C 5.—At **West Farm**, Madison County, about 100 feet west of the Seaboard Air Line Railway station, and 20 feet south of the main track. A standard disk, stamped "C 5" and set in the top of a concrete post. (32.030 meters or 105.035 feet.)

D 5.—About 3 miles east along the Seaboard Air Line Railway from **Madison**, Madison County, 130 feet west of old milepost 107, near a private road crossing, and 25 feet north of the track. A standard disk, stamped "D 5" and set in the top of a concrete post. (40.157 meters or 131.748 feet.)

E 5.—At **Madison**, Madison County, about ¼ mile east of the Seaboard Air Line Railway station, and 200 feet east of a trestle over the track, in an angle of a road, 100 feet north of the track. A standard disk, stamped "E 5" and set in the top of a concrete post. (39.634 meters or 130.033 feet.)

Madison, top of rail opposite the Seaboard Air Line Railway station. (130.8 feet.)

F 5.—About 2 miles west along the Seaboard Air Line Railway from Madison, Madison County, 130 feet west of old milepost 112, near a road crossing, and 25 feet north of the track. A standard disk, stamped "F 5" and set in the top of a concrete post. (36.235 meters or 119.045 feet.)

G 5.—At Champaign, Madison County, on the Seaboard Air Line Railway, about 7 feet east of old milepost 115, and 25 feet north of the track. A standard disk, stamped "G 5" and set in the top of a concrete post. (36.949 meters or 121.224 feet.)

H 5.—About 7 miles east along the Seaboard Air Line Railway from Greenville, Madison County, 410 feet east of old milepost 117, and 25 feet south of the track. A standard disk, stamped "H 5" and set in the top of a concrete post. (30.780 meters or 100.984 feet.)

I 5.—About 4 miles east along the Seaboard Air Line Railway from Greenville, Madison County, at Fraleighs siding, $\frac{1}{4}$ mile east of old milepost 120, and 25 feet south of the track. A standard disk, stamped "I 5" and set in the top of a concrete post. (35.069 meters or 115.056 feet.)

J 5.—About $1\frac{1}{4}$ miles east along the Seaboard Air Line Railway from Greenville, Madison County, 325 feet east of old milepost 122, near a road crossing, and 25 feet south of the track. A standard disk, stamped "J 5" and set in the top of a concrete post. (30.790 meters or 101.017 feet.)

K 5.—At Greenville, Madison County, opposite the Seaboard Air Line Railway station, in the south face of a brick building. A standard disk, stamped "K 5." (30.312 meters or 99.449 feet.)

Greenville, top of rail opposite the Seaboard Air Line Railway station. (103.5 feet.)

L 5 (U.S.G.S.).—At Greenville, Madison County, about 1,000 feet west of the Seaboard Air Line Railway station, in the southeast quarter of the crossing of the Seaboard Air Line Railway and the Atlantic Coast Line Railroad, and 25 feet from each track. A United States Geological Survey standard cap, stamped "PRIM. TRAV. STA." and riveted on the top of a $3\frac{1}{2}$ -inch iron pipe. (29.907 meters or 98.120 feet.)

Greenville, top of rail at the intersection of the South Georgia Railway and the Seaboard Air Line Railway. (97.9 feet.)

M 5.—About $2\frac{1}{4}$ miles west along the Seaboard Air Line Railway from Greenville, Madison County, near old milepost 126, and 25 feet north of the track. A standard disk, stamped "M 5" and set in the top of a concrete post. (28.372 meters or 93.084 feet.)

N 5.—About $4\frac{1}{2}$ miles west along the Seaboard Air Line Railway from Greenville, Madison County, 590 feet east of old milepost 128, near a road crossing, and 25 feet north of the track. A standard disk, stamped "N 5" and set in the top of a concrete post. (27.886 meters or 91.489 feet.)

O 5.—About $\frac{1}{2}$ mile east along the Seaboard Air Line Railway from Aucilla, Jefferson County, and 25 feet south of the track, at the first pole east of a cut. A standard disk, stamped "O 5" and set in the top of a concrete post. (20.090 meters or 65.900 feet.)

P 5 (U.S.G.S.).—At Aucilla, Jefferson County, about 250 feet west of the Seaboard Air Line Railway station, just outside the fence corner west of the first road from the station. A United States Geological Survey standard cap, stamped "PRIM. TRAV. STA." and riveted on the top of a $3\frac{1}{2}$ -inch iron pipe. (25.193 meters or 82.654 feet.)

Aucilla, top of rail opposite the Seaboard Air Line Railway station. (83.5 feet.)

Q 5.—About 3 miles west along the Seaboard Air Line Railway from Aucilla, Jefferson County, at old milepost 134, and 25 feet north of the track. A standard disk, stamped "Q 5" and set in the top of a concrete post. (25.766 meters or 84.534 feet.)

R 5.—About 5 miles west along the Seaboard Air Line Railway from Aucilla, Jefferson County, at old milepost 136, and 25 feet north of the track. A standard disk, stamped "R 5" and set in the top of a concrete post. (27.019 meters or 88.645 feet.)

S 5 (U.S.G.S.).—At Drifton, Jefferson County, opposite the east end of the Seaboard Air Line Railway station, 25 feet south of the track, near a pole. A United States Geological Survey standard cap, stamped "PRIM. TRAV. STA." and riveted on the top of a $3\frac{1}{2}$ -inch iron pipe. (39.561 meters or 129.793 feet.)

Drifton, top of rail opposite the Seaboard Air Line Railway station. (131.7 feet.)

T 5.—At **Braswells**, Jefferson County, about 130 feet northeast of the Seaboard Air Line Railway station, and 165 feet north of the main track, near a pole. A standard disk, stamped "T 5" and set in the top of a concrete post. (57.786 meters or 189.586 feet.)

U 5.—About $3\frac{1}{4}$ miles east along the Seaboard Air Line Railway from **Lloyd**, Jefferson County, about 650 feet east of old milepost 144, near a road crossing, and 25 feet south of the track. A standard disk, stamped "U 5" and set in the top of a concrete post. (45.333 meters or 148.730 feet.)

V 5.—At **Lloyd**, Jefferson County, about 500 feet east of the Seaboard Air Line Railway station, 80 feet west of a road crossing, and 25 feet south of the track. A standard disk, stamped "V 5" and set in the top of a concrete post. (24.495 meters or 80.364 feet.)

Lloyd, top of rail opposite the Seaboard Air Line Railway station. (82.1 feet.)

W 5 (U.S.G.S.).—At **Lloyd**, Jefferson County, opposite the Seaboard Air Line Railway station, and 35 feet south of the main track. A United States Geological Survey standard cap, stamped "PRIM. TRAV. STA." and riveted on the top of a $3\frac{1}{2}$ -inch iron pipe. (25.189 meters or 82.641 feet.)

X 5.—About $2\frac{1}{4}$ miles west along the Seaboard Air Line Railway from **Lloyd**, Jefferson County, at old milepost 150, and 25 feet north of the track. A standard disk, stamped "X 5" and set in the top of a concrete post. (21.617 meters or 70.922 feet.)

Capitola, top of rail opposite the Seaboard Air Line Railway station. (57.3 feet.)

Y 5.—At **Chaires**, Leon County, about 250 feet west of the Seaboard Air Line Railway station, and 50 feet south of the main track. A standard disk, stamped "Y 5" and set in the top of a concrete post. (17.752 meters or 58.241 feet.)

Chaires, top of rail opposite the Seaboard Air Line Railway station. (57.1 feet.)

Z 5.—About $7\frac{1}{4}$ miles east along the Seaboard Air Line Railway from **Tallahassee**, Leon County, at old milepost 158, and 25 feet north of the track. A standard disk, stamped "Z 5" and set in the top of a concrete post. (14.944 meters or 49.029 feet.)

A 6.—Destroyed. (27.250 meters or 89.403 feet.)

B 6.—Destroyed. (24.468 meters or 80.275 feet.)

Tallahassee, top of rail opposite the Seaboard Air Line Railway station. (78.8 feet.)

C 6.—At **Tallahassee**, Leon County, at the Supreme Court building, in the southeast corner. A standard disk, stamped "C 6." (57.333 meters or 188.116 feet.)

D 6.—At **Tallahassee**, Leon County, at the State Capitol building, in the southwest corner. A standard disk, stamped "D 6." (65.514 meters or 214.941 feet.)

E 6.—At **Tallahassee**, Leon County, at the Lewis State Bank, at the southeast corner, in the brick wall. A standard disk, stamped "E 6." (65.852 meters or 216.049 feet.)

For additional bench marks in the vicinity of Tallahassee, see page 18.

F 6.—About 4 miles west along the Seaboard Air Line Railway from **Tallahassee**, Leon County, $\frac{1}{3}$ mile west of old milepost 169, near a private road crossing, and 9 yards north of the track. A standard disk, stamped "F 6" and set in the top of a concrete post. (20.108 meters or 65.971 feet.)

G 6.—About 7.0 miles west along the Seaboard Air Line Railway from **Tallahassee**, Leon County, about $\frac{1}{3}$ mile west of old milepost 172, near a private road crossing, and 9 yards south of the track. A standard disk, stamped "G 6" and set in the top of a concrete post. (41.402 meters or 135.833 feet.)

H 6.—At **Midway**, Gadsden County, about 50 yards west of the Seaboard Air Line Railway station, and 9 yards south of the main track. A standard disk, stamped "H 6" and set in the top of a concrete post. (59.969 meters or 196.748 feet.)

Midway, top of rail opposite the Seaboard Air Line Railway station. (197.3 feet.)

I 6.—About $3\frac{3}{4}$ miles west along the Seaboard Air Line Railway from **Midway**, Gadsden County, 100 yards west of old milepost 181, east of a high

embankment, 9 yards south of the track, and level with the top of the rail. A standard disk, stamped "I 6" and set in the top of a concrete post. (37.302 meters or 122.382 feet.)

J 6.—About 3 miles east along the Seaboard Air Line Railway from Quincy, Gadsden County, about 0.2 mile east of an overhead crossing, 100 yards west of old milepost 186, and 9 yards south of the track. A standard disk, stamped "J 6" and set in the top of a concrete post. (66.496 meters or 218.162 feet.)

K 6.—At Quincy, Gadsden County, opposite the east end of the Seaboard Air Line Railway station, and about 15 yards south of the main track. A standard disk, stamped "K 6" and set in the top of a concrete post. (74.075 meters or 243.028 feet.)

L 6.—About 4 $\frac{1}{4}$ miles west along the Seaboard Air Line Railway from Quincy, Gadsden County, about 0.3 mile west of old milepost 193, near a road crossing, and 9 yards south of the track. A standard disk, stamped "L 6" and set in the top of a concrete post. (84.097 meters or 275.908 feet.)

Gretna, top of rail opposite the Seaboard Air Line Railway station. (290.4 feet.)

M 6.—At Mount Pleasant, Gadsden County, about 30 yards southwest of the Seaboard Air Line Railway station, almost opposite the mail stand, and 9 yards south of the track. A standard disk, stamped "M 6" and set in the top of a concrete post. (90.224 meters or 296.010 feet.)

Mount Pleasant, top of rail opposite the Seaboard Air Line Railway station. (296.3 feet.)

N 6.—About 3 miles west along the Seaboard Air Line Railway from Mount Pleasant, Gadsden County, about 40 yards west of old milepost 201, and 9 yards south of the track. A standard disk, stamped "N 6" and set in the top of a concrete post. (56.618 meters or 185.754 feet.)

O 6.—At River Junction, Gadsden County, on the Seaboard Air Line Railway, about $\frac{1}{4}$ mile east of Union Station, at the railway water tank, in the north-west pillar, and about 2 yards south of the main track. The highest point of a bolt, marked "U.S.B.M." (23.177 meters or 76.040 feet.)

River Junction, top of rail opposite Union Station on the Seaboard Air Line Railway. (78.1 feet.)

P 6.—At River Junction, Gadsden County, on the Seaboard Air Line Railway, about 300 yards east of Union Station, and opposite a 3-story brick building. The highest point of a rail, projecting about 2 $\frac{1}{2}$ feet above the ground and acting as a guard at the corner of the sidewalk. (23.127 meters or 75.876 feet.)

Q 6.—At River Junction, Gadsden County, about 0.2 mile west of Union Station, 100 yards west of the west end of the Seaboard Air Line Railway and the Atlantic Coast Line Railroad freight house, and about 30 yards south of the main track of the Seaboard Air Line Railway. A standard disk, stamped "Q 6" and set in the top of a concrete post. (24.238 meters or 79.521 feet.)

R 6=83 (U.S.E.).—About 1 $\frac{1}{4}$ miles west along the Louisville & Nashville Railroad from the Union Station at River Junction, Gadsden County, about 70 yards west of the west concrete pier of the bridge over the Apalachicola River, and 1 yard north of a trestle. A copper bolt, marked "83" and set in the top of a concrete post. (19.427 meters or 63.737 feet.)

S 6=84 (U.S.E.).—About 1 $\frac{1}{4}$ miles west along the Louisville & Nashville Railroad from the Union Station at River Junction, Gadsden County, 100 yards southwest of the west concrete pier of the bridge over the Apalachicola River, about 3 yards from the river bank, in the triangle formed by three blazed trees, 127 feet from a 10-inch walnut, 100 feet from a 24-inch post oak, and 20 feet from a 20-inch white oak. A copper bolt, marked "84" and set in the top of a concrete post. (19.509 meters or 64.006 feet.)

For additional bench marks in the vicinity of River Junction, see page 28.

LINE 4, TALLAHASSEE, FLA., TO ATLANTA, GA. (PART)

[First-order leveling]

This line follows the Seaboard Air Line Railway from Tallahassee, through Jamieson, Fla., toward Atlanta, Ga. The field work was done, during the fall of 1916, by a party in charge of G. D. Cowie, assistant.

For additional bench marks in the vicinity of Tallahassee, see page 16.

T 6.—About $3\frac{1}{2}$ miles northwest along the Seaboard Air Line Railway from the station at Tallahassee, Leon County, about $\frac{1}{4}$ mile northwest of milepost 53, about 30 yards northwest of a private-road crossing, and about 10 yards northeast of the track. A standard disk, set in the top of a concrete post. (27.238 meters or 89.363 feet.)

U 6.—About 7 miles northwest along the Seaboard Air Line Railway from Tallahassee, Leon County, just south of a cut, and about 9 yards east of the track. A standard disk, set in the top of a concrete post. (31.746 meters or 104.153 feet.)

Gibson, top of rail opposite the Seaboard Air Line Railway station. (139.6 feet.)

V 6.—About $10\frac{1}{2}$ miles northwest along the Seaboard Air Line Railway from Tallahassee, Leon County, about $\frac{1}{2}$ mile north of milepost 60, at the north end of a cut, and about 8 yards east of the track. A copper bolt, set in the top of a concrete post. (34.734 meters or 113.956 feet.)

W 6.—About $3\frac{3}{4}$ miles southeast along the Seaboard Air Line Railway from Havana, Gadsden County, at milepost 63, and about 10 yards east of the tracks. A copper bolt, set in the top of a concrete post. (43.854 meters or 143.878 feet.)

Havana, top of rail opposite Seaboard Air Line Railway station. (246.7 feet.)

X 6.—At Havana, Gadsden County, about 100 yards north of the Seaboard Air Line Railway station, about 2 yards from the north fence around a field, and about 15 yards west of the main track. A copper bolt, set in the top of a concrete post. (75.303 meters or 247.057 feet.)

Hinson, top of rail opposite the Seaboard Air Line Railway station. (255.2 feet.)

Y 6.—At Jamieson, Gadsden County, at the south end of the Seaboard Air Line Railway station and about 2 yards west of the main track. A copper bolt, set in the top of a concrete post. (44.802 meters or 146.988 feet.)

Jamieson, top of rail opposite the Seaboard Air Line Railway station. (147.9 feet.)

The line continues into Georgia.

LINE 5, JACKSONVILLE, FLA., TO WAYCROSS, GA. (PART)

[First-order leveling]

This line follows the Atlantic Coast Line Railroad from Jacksonville, through Boulogne, Fla., toward Waycross, Ga. The field work was done, during the spring of 1917, by a party in charge of C. L. Garner, hydrographic and geodetic engineer.

For bench marks in the vicinity of Jacksonville, see pages 8, 10, 70, and 71.

Z 6.—About 3 miles north along the Atlantic Coast Line Railroad from Jacksonville, Duval County, about $\frac{1}{4}$ mile south of the Moncrief signal tower, about 100 yards south of a road crossing, and about 20 yards west of the north-bound track. A standard disk, set in the top of a concrete post. (7.907 meters or 25.942 feet.)

Moncrief, top of rail opposite the Atlantic Coast Line Railroad station. (28.0 feet.)

Moncrief, top of rail at the intersection of the Georgia Southern & Florida Railway and the Atlantic Coast Line Railroad. (27.7 feet.)

A 7.—At Pickett, Duval County, on the Atlantic Coast Line Railroad, about 30 yards west of the section boss' house, and 20 yards east of the north-bound track. A standard disk, set in the top of a concrete post. (8.475 meters or 27.805 feet.)

B 7.—About 2 miles north along the Atlantic Coast Line Railroad from Pickett, Duval County, about 200 yards north of a road crossing, and 20 yards west of the south-bound track. A standard disk, set in the top of a concrete post. (5.318 meters or 17.447 feet.)

C 7.—At **Dinsmore**, Duval County, about 40 yards northeast of the Atlantic Coast Line Railroad station, 5 yards north of the center of a road crossing, and about 20 yards east of the north-bound track. A standard disk, set in the top of a concrete post. (5.852 meters or 19.199 feet.)

Dinsmore, top of rail opposite the Atlantic Coast Line Railroad station. (20.7 feet.)

D 7.—At **Cary**, Duval County, on the Atlantic Coast Line Railroad, about 200 yards north of milepost 275, about 30 yards northwest of the section boss' house, and about 20 yards east of the north-bound track. A standard disk, set in the top of a concrete post. (7.329 meters or 24.045 feet.)

E 7.—At **Ratliff**, Nassau County, about 20 yards east of the Atlantic Coast Line Railroad station platform, about 10 yards north of a road crossing, and about 1 yard from a fence line. A standard disk, set in the top of a concrete post. (7.169 meters or 23.520 feet.)

XE 7=22.8 (U.S.G.S.).—At **Ratliff**, Nassau County, on the Atlantic Coast Line Railroad, about 2 yards south of a road crossing, and about 1 yard east of a fence line. A United States Geological Survey standard cap, riveted on the top of a 3½-inch iron pipe. (6.962 meters or 22.841 feet.)

Ratliff, top of rail opposite the Atlantic Coast Line Railroad station. (23.8 feet.)

F 7.—About 3 miles north along the Atlantic Coast Line Railroad from **Ratliff**, Nassau County, about 50 yards northeast of semaphore 6255, about 25 yards east of the north-bound track, and about 1 yard west of a fence line. A standard disk, set in the top of a concrete post. (4.927 meters or 16.165 feet.)

G 7.—At **Callahan**, Nassau County, about 20 yards southeast of the junction of the Atlantic Coast Line Railroad and the Seaboard Air Line Railway, and about 200 yards east of the Atlantic Coast Line Railroad north-bound track. A standard disk, set in the top of a concrete post. (6.822 meters or 22.382 feet.)

Callahan, top of rail opposite the Atlantic Coast Line Railroad station. (22.4 feet.)

Callahan, top of rail at the intersection of the Atlantic Coast Line Railroad and the Seaboard Air Line Railway. (23.2 feet.)

For additional bench marks in the vicinity of **Callahan**, see page 21.

H 7.—About 2¼ miles north along the Atlantic Coast Line Railroad from **Callahan**, Nassau County, about 10 yards southwest of milepost 265, and about 30 yards west of the south-bound track. A standard disk, set in the top of a concrete post. (5.458 meters or 17.907 feet.)

I 7=46.9 (U.S.G.S.).—At **Dyal**, Nassau County, about 30 yards southeast of the Atlantic Coast Line Railroad station, and about 20 yards west of the track, in a fence corner. A United States Geological Survey standard cap, riveted on the top of a 3½-inch iron pipe. (14.296 meters or 46.903 feet.)

Dyal, top of rail opposite the Atlantic Coast Line Railroad station. (29.5 feet.)

J 7.—About 3¼ miles north along the Atlantic Coast Line Railroad from **Dyal**, Nassau County, about 250 yards north of milepost 259, about 30 yards west of the south-bound track, and about 1 yard west of a fence line. A standard disk, set in the top of a concrete post. (20.174 meters or 66.188 feet.)

K 7=69.5 (U.S.G.S.).—At **Hilliard**, Nassau County, opposite the Atlantic Coast Line Railroad station, just north of the walk leading west from the station, and near a pole. A United States Geological Survey standard cap, riveted on the top of a 3½-inch iron pipe. (21.177 meters or 69.478 feet.)

Hilliard, top of rail opposite the Atlantic Coast Line Railroad station. (68.9 feet.)

L 7.—At **Hilliard**, Nassau County, about 30 yards southeast of the Atlantic Coast Line Railroad station, and about 1 yard south of the walk leading northeast from the station. A standard disk, set in the top of a concrete post. (20.670 meters or 67.815 feet.)

M 7.—About 2¼ miles north along the Atlantic Coast Line Railroad from **Hilliard**, Nassau County, about 200 yards north of milepost 255, about 100 yards south of semaphore 6116, about 30 yards east of the north-bound track, and about 1 yard west of a fence line. A standard disk, set in the top of a concrete post. (26.326 meters or 86.371 feet.)

N 7.—At **Andrews**, Nassau County, about 30 yards north of the Atlantic Coast Line Railroad station platform, about 25 yards northeast of the north-

bound track, and about 2 yards south of a fence corner. A standard disk, set in the top of a concrete post. (28.613 meters or 93.874 feet.)

Andrews, top of rail opposite the Atlantic Coast Line Railroad station. (94.6 feet.)

O 7.—About $2\frac{1}{2}$ miles north along the Atlantic Coast Line Railroad from **Andrews**, Nassau County, about 200 yards south of semaphore 6076, and about 20 yards east of the track. A standard disk, set in the top of a concrete post. (21.866 meters or 71.739 feet.)

P 7.—At **Boulogne**, Nassau County, about 10 yards north of the Atlantic Coast Line Railroad station, and about 10 yards west of the track. A standard disk, set in the top of a concrete post. (17.980 meters or 58.989 feet.)

Boulogne, top of rail opposite the Atlantic Coast Line Railroad station. (59.6 feet.)

The line continues into Georgia.

LINE 6, ALBANY, GA., TO CALLAHAN, FLA. (PART)

[First-order leveling]

This line enters Florida in the vicinity of Morehead and follows the Southern Railway from Morehead to Crawford, and the Seaboard Air Line Railway from Crawford to Callahan. The field work was done, during the fall of 1917, by a party in charge of Max Steinberg, junior hydrographic and geodetic engineer.

Q 7.—At **Morehead**, Baker County, about 50 yards south of the Southern Railway station platform, about 3 yards south of a road crossing, and about 15 yards west of the tracks. A standard disk, set in the top of a concrete post. (38.699 meters or 126.965 feet.)

R 7.—About $1\frac{3}{4}$ miles west along the Southern Railway from **Pomerene**, Baker County, about $1\frac{2}{3}$ miles south of **Morehead**, opposite milepost M 212, and about 5 yards west of the track. A standard disk, set in the top of a concrete post. (38.382 meters or 125.925 feet.)

S 7.—At **Pomerene**, Baker County, on the Southern Railway, about 100 yards north of milepost M 214, and about 10 yards west of the track. A standard disk, set in the top of a concrete post. (38.177 meters or 125.252 feet.)

T 7.—At **Eddy**, Baker County, on the Southern Railway, at the south end of a switch, about 5 yards northeast of a road crossing, and about 10 yards east of the track. A standard disk, set in the top of a concrete post. (39.167 meters or 128.500 feet.)

U 7.—About $1\frac{3}{4}$ miles east along the Southern Railway from **Eddy**, Baker County, opposite milepost M 218, and about $1\frac{1}{2}$ yards west of the tracks. A standard disk, set in the top of a concrete post. (36.254 meters or 118.943 feet.)

V 7.—About $3\frac{3}{4}$ miles east along the Southern Railway from **Eddy**, Baker County, opposite milepost M 220, on a slight fill, about 2 yards west of the track. A standard disk, set in the top of a concrete post. (36.011 meters or 118.146 feet.)

W 7.—At **Baxter**, Baker County, about 15 yards south of the Southern Railway station, and about 9 yards east of the track. A standard disk, set in the top of a concrete post. (35.817 meters or 117.510 feet.)

St. George, top of rail opposite the Southern Railway station. (78.0 feet.)

X 7.—In Nassau County, Fla., about 2 miles east along the Southern Railway from **St. George**, Charlton County, Ga., and about $\frac{3}{4}$ mile east of **St. Marys River**, on the east side of a road crossing, about 8 yards south of the track. A standard disk, set in the top of a concrete post. (19.573 meters or 64.216 feet.)

Y 7.—At **Kent**, Nassau County, on the Southern Railway, about 20 yards southeast of milepost M 239, about 3 yards west of a road crossing, and about 5 yards north of the track. A standard disk, set in the top of a concrete post. (21.547 meters or 70.692 feet.)

Z 7.—At **Hodges Mill**, Nassau County, on the Southern Railway, near milepost M 241, about 50 yards west of a road crossing, and about 8 yards south

of a railroad crossing. A standard disk, set in the top of a concrete post. (22.492 meters or 73.793 feet.)

A 8.—About $1\frac{3}{4}$ miles west along the Southern Railway from Crawford, Nassau County, east of a road crossing, and about 8 yards south of the tracks. A standard disk, set in the top of a concrete post. (27.594 meters or 90.531 feet.)

B 8.—At Crawford, Nassau County, about 125 yards north of the Seaboard Air Line Railway station, and about 10 yards northeast of the crossing of the Southern Railway. A standard disk, set in the top of a concrete post. (25.852 meters or 84.816 feet.)

C 8.—About $2\frac{1}{2}$ miles south along the Seaboard Air Line Railway from Callahan, Nassau County, about $2\frac{1}{4}$ miles north of Crawford, about 10 yards east of the track, and about 3 yards south of a large cedar tree. A standard disk, set in the top of a concrete post. (17.530 meters or 57.513 feet.)

For additional bench marks in the vicinity of Callahan, see page 19.

LINE 7, SAVANNAH, GA., TO YULEE, FLA. (PART)

[First-order leveling]

This line enters Florida in the vicinity of Gross and follows the Seaboard Air Line Railway to Yulee. The field work was done, during the spring of 1918, by a party in charge of M. E. Lutz, signalman.

D 8=24.5 (U.S.G.S.).—At Gross, Nassau County, about 9 yards west of the Seaboard Air Line Railway station, about 60 yards east of a residence, about 3 yards north of a road crossing, and about 3 yards west of the track. A United States Geological Survey standard cap, riveted on the top of a $3\frac{1}{2}$ -inch iron pipe. (7.461 meters or 24.478 feet.)

E 8.—About $2\frac{1}{4}$ miles south along the Seaboard Air Line Railway from Gross, Nassau County, about $1\frac{1}{4}$ miles north of Becker, and about 7 yards west of the track. A standard disk, set in the top of a concrete post. (5.777 meters or 18.953 feet.)

F 8.—At Becker, Nassau County, about 5 yards north of the Seaboard Air Line Railway station platform, about 7 yards south of a road crossing, and about 8 yards east of the track. A standard disk, set in the top of a concrete post. (6.989 meters or 22.930 feet.)

G 8.—About $1\frac{3}{4}$ miles north along the Seaboard Air Line Railway from Yulee, Nassau County, about 500 feet south of milepost 26, about 100 yards south of the "1 mile to station" sign, and about 12 yards west of the track. A standard disk, set in the top of a concrete post. (6.791 meters or 22.280 feet.)

H 8.—At Yulee, Nassau County, about 20 yards southwest of the Seaboard Air Line Railway station, about 10 yards east of the post office, about 5 yards south of a road crossing, and about 9 yards west of the track. A standard disk, set in the top of a concrete post. (10.832 meters or 35.538 feet.)

For additional bench marks in the vicinity of Yulee, see page 8.

LINE 8, BILOXI, MISS., TO RIVER JUNCTION, FLA. (PART)

[First-order leveling]

This line enters Florida in the vicinity of Flomaton, Ala., and follows the Louisville & Nashville Railroad through Pensacola and De Funiak Springs to River Junction. A spur line was run from Pensacola to the navy yard at Warrington. The field work was done, during the summer of 1918, by a party in charge of Douglas Karr, junior hydrographic and geodetic engineer.

NOTE.—A report, dated March 29, 1930, stated that Louisville & Nashville Railroad milepost 18 at Barth had been changed to L-625. On the basis of this report, the new mileages of the mileposts given in these descriptions can be approximated by adding 607, providing the change is uniform throughout the line.

I 8.—About $\frac{1}{4}$ mile south along the Louisville & Nashville Railroad from **Flomaton**, Escambia County, Ala., at the Alabama-Florida State line. A standard disk, stamped "I 8 1918" and set in the top of a concrete post. (21.237 meters or 69.675 feet.)

J 8.—At **Century**, Escambia County, Fla., about 130 yards south of the Louisville & Nashville Railroad station, at old mile post 2, at a road crossing about 3 yards east of the track, in the top of a concrete commutator block. A standard disk, stamped "J 8 1918." (22.987 meters or 75.417 feet.)

Century, top of rail opposite the Louisville & Nashville Railroad station. (79.1 feet.)

K 8.—About 1 mile north along the Louisville & Nashville Railroad from **Bluff Springs**, Escambia County, about $\frac{1}{8}$ mile north of a grade crossing, 2 poles south of old milepost 4, and about 10 yards west of the track. A standard disk, stamped "K 8 1918" and set in the top of a concrete post. (18.259 meters or 59.905 feet.)

L 8.—About 1 mile south along the Louisville & Nashville Railroad from the station at **Bluff Springs**, Escambia County, about 80 yards north of old milepost 6, and about 12 yards west of the track. A standard disk, stamped "L 8 1918" and set in the top of a concrete post. (13.992 meters or 45.905 feet.)

M 8.—About 2 miles north along the Louisville & Nashville Railroad from **McDavid**, Escambia County, about 0.2 mile south of a grade crossing, 2 poles south of old milepost 8, and about 15 yards east of the track. A standard disk, stamped "M 8 1918" and set in the top of a concrete post. (14.966 meters or 49.101 feet.)

N 8.—At **McDavid**, Escambia County, about 0.2 mile north of the Louisville & Nashville Railroad station, at a brick culvert, about 10 yards west of the track, in the top of the south end of the west head wall. A standard disk, stamped "N 8 1918." (10.292 meters or 33.766 feet.)

O 8.—About 2 miles south along the Louisville & Nashville Railroad from **McDavid**, Escambia County, about $\frac{1}{8}$ mile south of a grade crossing, at old milepost 12, and about 10 yards west of the track. A standard disk, stamped "O 8 1918" and set in the top of a concrete post. (10.652 meters or 34.947 feet.)

P 8.—About 2.5 miles north along the Louisville & Nashville Railroad from **Pine Barren**, Escambia County, 5 poles north of old milepost 14, about 100 yards south of a grade crossing, and about 10 yards east of the track. A standard disk, stamped "P 8 1918" and set in the top of a concrete post. (9.406 meters or 30.860 feet.)

Q 8.—At **Pine Barren**, Escambia County, on the Louisville & Nashville Railroad, about $\frac{1}{4}$ mile north of the station, about 80 yards north of old milepost 16, and about 12 yards east of the track. A standard disk, stamped "Q 8 1918" and set in the top of a concrete post. (9.385 meters or 30.791 feet.)

R 8.—At **Barth**, Escambia County, on the Louisville & Nashville Railroad, about $\frac{1}{4}$ mile south of the station, near the Florida Clay Products Co. brick and tile plant, 303 feet south of milepost L 625 (formerly milepost 18), 27 feet north of the point of switch, and 42 feet west of the center line of the track, in a fill, about 6 feet underground. A standard disk, stamped "R 8 1918" and set in the top of a concrete post. (8.813 meters or 28.914 feet.)

S 8.—At **Molino**, Escambia County, on the Louisville & Nashville Railroad, at the brick building occupied by the Escambia Mercantile Co., at the northeast corner, in the east face, about $2\frac{1}{2}$ feet higher than the sidewalk. A standard disk, stamped "S 8 1918." (14.170 meters or 46.489 feet.)

T 8.—About 2 miles south along the Louisville & Nashville Railroad from **Molino**, Escambia County, about 100 yards north of old milepost 22, about 40 yards north of a road crossing, and about 13 yards east of the track. A standard disk, stamped "T 8 1918" and set in the top of a concrete post. (13.396 meters or 43.950 feet.)

U 8.—About $\frac{1}{2}$ mile north along the Louisville & Nashville Railroad from **Quintette**, Escambia County, at old milepost 24, at a concrete culvert, about 3 yards west of the track, in the top of the west head wall. A standard disk, stamped "U 8 1918." (29.218 meters or 95.859 feet.)

V 8.—About 1 mile north along the Louisville & Nashville Railroad from the station at **Cottage Hill**, Escambia County, at old milepost 26, and about 10 yards east of the track. A standard disk, stamped "V 8 1918" and set in the top of a concrete post. (39.849 meters or 130.738 feet.)

W 8.—About 0.3 mile north along the Louisville & Nashville Railroad from the station at **Cantonment**, Escambia County, 4 poles south of old milepost 28, and about 20 yards west of the track. A standard disk, stamped "W 8 1918" and set in the top of a concrete post. (41.324 meters or 135.577 feet.)

X 8.—About 1 mile north along the Louisville & Nashville Railroad from **Gonzalez**, Escambia County, at old milepost 30, about 15 yards from a grade crossing, and about 7 yards east of the track. A standard disk, stamped "X 8 1918" and set in the top of a concrete post. (47.176 meters or 154.777 feet.)

Y 8.—About 1 mile south along the Louisville & Nashville Railroad from **Gonzalez**, Escambia County, at old milepost 32, about 100 yards north of a road crossing, and about 7 yards east of the track. A standard disk, stamped "Y 8 1918" and set in the top of a concrete post. (44.426 meters or 145.754 feet.)

Z 8.—About 2¼ miles north along the Louisville & Nashville Railroad from **Olive**, Escambia County, about 6 yards south of old milepost 34, and about 10 yards west of the track. A standard disk, stamped "Z 8 1918" and set in the top of a concrete post. (39.991 meters or 131.204 feet.)

A 9.—About ¾ mile north along the Louisville & Nashville Railroad from **Olive**, Escambia County, about 50 yards south of old milepost 36, and about 10 yards west of the track. A standard disk, stamped "A 9 1918" and set in the top of a concrete post. (40.234 meters or 132.001 feet.)

B 9.—About 1¼ miles north along the Louisville & Nashville Railroad from **Brent**, Escambia County, at **Oakfield Crossing**, near old milepost 38, and about 15 yards west of the track. A standard disk, stamped "B 9 1918" and set in the top of a concrete post. (35.929 meters or 117.877 feet.)

C 9.—At **Goulding**, Escambia County, about 120 yards south of the Louisville & Nashville Railroad station, about 15 yards south of old milepost 41, about 50 yards north of a road crossing, and about 15 yards east of the track. A standard disk, stamped "C 9 1918" and set in the top of a concrete post. (26.306 meters or 86.306 feet.)

D 9.—At **Pensacola**, Escambia County, at the Louisville & Nashville Railroad station, at the west end of the north concrete passenger platform, in the foot of the west pillar supporting the shed. A standard disk, stamped "D 9 1918." (7.523 meters or 24.682 feet.)

Spur line to Warrington (Navy Yard).

E 9.—At **Pensacola**, Escambia County, at the northeast corner of Palafox and Chase Streets, in the south face of the courthouse, 10 inches from the corner of the south brick pillar alongside the front steps, and about 15 inches higher than the ground. A standard disk, stamped "E 9 1918." (4.465 meters or 14.649 feet.)

F 9.—At **Pensacola**, Escambia County, at the corner of Garden and Palafox Streets, in the north face of the Blount Building, 15 inches from the northeast corner, and about 2 feet higher than the sidewalk. A standard disk, stamped "F 9 1918." (3.886 meters or 12.749 feet.)

G 9.—At **Pensacola**, Escambia County, at the southeast corner of Palafox and Government Streets, in the south face of the post office, 15 feet from the southeast corner, and about 1½ feet higher than the sidewalk. A standard disk. (4.045 meters or 13.271 feet.)

H 9.—At **Pensacola**, Escambia County, at the foot of Palafox Street, in the east face of the building occupied by the Gulf Machine Works, about 2½ feet from the southeast corner, and about 2¼ feet higher than the sidewalk. A standard disk, stamped "H 9 1918." (3.302 meters or 10.833 feet.)

I 9.—About 2 miles south along the Louisville & Nashville Railroad from **Pensacola**, Escambia County, on Little Bayou, in the northwest pillar of the porch of the Runyan residence, about 50 yards west of the street car tracks, and about 2 feet higher than the ground. A standard disk, stamped "I 9 1918." (3.619 meters or 11.873 feet.)

J 9.—About 4.5 miles south along the Louisville & Nashville Railroad from **Pensacola**, Escambia County, about 100 yards from Big Bayou, at the H. V. Andrews residence, and about 300 yards west of the street car tracks, in the cement walk leading to the house. A standard disk, stamped "J 9 1918." (2.807 meters or 9.209 feet.)

K 9.—At **Warrington**, Escambia County, at the Navy Yard, about 10 yards north of the center of the west entrance, in a brick wall. A standard disk, stamped "K 9 1918." (2.375 meters or 7.792 feet.)

L 9.—At Warrington, Escambia County, at the Navy Yard, about 100 yards south of the drive to the main entrance, in the north face of the northeast corner of building 27. A standard disk, stamped "L 9 1918." (2.288 meters or 7.507 feet.)

M 9.—At Warrington, Escambia County, at the Navy Yard, about 35 yards from the south entrance to the Naval Hospital, and about 10 yards east of the drive, in the west face of the northwest corner of the brig. A standard disk, stamped "M 9 1918." (3.159 meters or 10.364 feet.)

End of the spur line.

N 9.—About 4 miles east along the Louisville & Nashville Railroad from Pensacola, Escambia County, about 120 yards west of old milepost 48, about 20 yards north of the track, and about 5 yards outside of the right-of-way. A standard disk, stamped "N 9 1918" and set in the top of a concrete post. (3.871 meters or 12.700 feet.)

O 11.—At Bohemia, Escambia County, on the Louisville & Nashville Railroad, in the northeast brick pillar of the front porch of the D. G. Gonzalez residence, and about 40 yards from the track. A standard disk, stamped "O 11 1918." (3.524 meters or 11.562 feet.)

P 11.—At Gull Point, Escambia County, 13 feet north of the north end of the Louisville & Nashville Railroad station platform, about 25 yards across the track from the post office, 57 feet northeast of a mail crane, and 24 feet east of the east rail, in a roadway. A standard disk, stamped "P 11 1918" and set in the top of a concrete post. (6.401 meters or 21.001 feet.)

O 9.—About 1¼ miles north along the Louisville & Nashville Railroad from Gull Point, Escambia County, about 0.2 mile west of the west end of the Escambia Trestle, and about 8 yards north of the track. A standard disk, stamped "O 9 1918" and set in the top of a concrete post. (1.765 meters or 5.791 feet.)

NOTE.—A report, dated April 14, 1934, stated that the concrete post was leaning at an angle of 25 degrees.

P 9.—About 2¾ miles north along the Louisville & Nashville Railroad from Gull Point, Escambia County, in the southwest concrete pier of the drawbridge over Escambia Bay. A standard disk, stamped "P 9 1918." (0.745 meter or 2.444 feet.)

Q 9.—At Mulat, Santa Rosa County, on the Louisville & Nashville Railroad about ½ mile east of the station, and about 5 yards south of the track. A standard disk, stamped "Q 9 1918" and set in the top of a concrete post. (2.861 meters or 9.386 feet.)

R 9.—About 2 miles north along the Louisville & Nashville Railroad from Mulat, Santa Rosa County, at old milepost 58, about ½ mile east of a grade crossing, and about 6 yards south of the track. A standard disk, stamped "R 9 1918" and set in the top of a concrete post. (11.372 meters or 37.310 feet.)

S 9.—At Galt City, Santa Rosa County, on the Louisville & Nashville Railroad, about 0.3 mile south of the station, and about 10 yards north of the track. A standard disk, stamped "S 9 1918" and set in the top of a concrete post. (18.429 meters or 60.462 feet.)

T 9.—About ¾ mile west along the Louisville & Nashville Railroad from Milton, Santa Rosa County, about 0.2 mile east of old milepost 62, about ½ mile west of the Bagdad Land and Lumber Co. railroad crossing, and 8 yards south of the track. A standard disk, stamped "T 9 1918" and set in the top of a concrete post. (3.033 meters or 9.951 feet.)

U 9.—At Milton, Santa Rosa County, at the Louisville & Nashville Railroad station, at the east end of the train shed, and 8 inches west of the foot of the easternmost column, in the concrete platform. A standard disk, stamped "U 9 1918." (2.709 meters or 8.888 feet.)

V 9.—About 0.4 mile east along the Louisville & Nashville Railroad from Milton, Santa Rosa County, at the drawbridge over Blackwater River, in the top of the north side of the west concrete pier. A standard disk, stamped "V 9 1918." (0.706 meter or 2.316 feet.)

W 9.—About 2¾ miles east along the Louisville & Nashville Railroad from Milton, Santa Rosa County, midway between the fourth and fifth poles west of old milepost 66, at a grade crossing, and 5 yards south of the track. A standard disk, stamped "W 9 1918" and set in the top of a concrete post. (23.001 meters or 75.462 feet.)

X 9.—About 4 miles west along the Louisville & Nashville Railroad from **Harold**, Santa Rosa County, about 240 feet east of milepost L 676, 8 yards south of the south rail, and 47 feet north of the center line of State Highway 1. A standard disk, stamped "X 9 1918" and set in the top of a concrete post. (39.968 meters or 131.128 feet.)

Y 9.—At **Harold**, Santa Rosa County, opposite the Louisville & Nashville Railroad station, about 800 feet east of milepost L 680 (3 poles east of old milepost 73), and about 13 yards north of the track. A standard disk, stamped "Y 9 1918" and set in the top of a concrete post. (45.765 meters or 150.147 feet.)

Z 9.—About 2¼ miles east along the Louisville & Nashville Railroad from **Harold**, Santa Rosa County, about 180 feet west of the station at **Floridale**, about 120 feet east of milepost L 683 (about 100 yards west of old milepost 76), and 10 yards south of the track. A standard disk, stamped "Z 9 1918" and set in the top of a concrete post. (49.505 meters or 162.418.)

A 10.—About 4 miles west along the Louisville & Nashville Railroad from **Holt**, Okaloosa County, about 200 feet east of milepost L 685 (at the old milepost 78), about 375 feet east of a grade crossing, and 9 yards south of the track. A standard disk, stamped "A 10 1918" and set in the top of a concrete post. (52.222 meters or 171.332 feet.)

B 10.—Destroyed. (56.768 meters or 186.246 feet.)

C 10.—At **Holt**, Okaloosa County, south of the west end of the Louisville & Nashville Railroad station, 5 poles west of old milepost 82, at the old Terry Merchandise Co. building, in the north face at the northeast corner. A standard disk, stamped "C 10 1918." (60.495 meters or 198.474 feet.)

D 10.—At **Galliver**, Okaloosa County, opposite the Louisville & Nashville Railroad station, about 2,030 feet east of milepost L 691 (at old milepost 84), 56 feet southeast of the southwest corner of the station, and 10 yards south of the track. A standard disk, stamped "D 10 1918" and set in the top of a concrete post. (61.685 meters or 202.378 feet.)

E 10.—About 2¼ miles east along the Louisville & Nashville Railroad from **Galliver**, Okaloosa County, near milepost L 694 (about ¼ mile west of old milepost 87), at a brick culvert, in the top of the south head wall. A standard disk, stamped "E 10 1918." (29.725 meters or 97.523 feet.)

F 10.—At **Milligan**, Okaloosa County, about 50 feet east of the Louisville & Nashville Railroad station, midway between old mileposts 89 and 90, 337 feet west of the point of a switch to the station track, and about 15 yards north of the track. A standard disk, stamped "F 10 1918" and set in the top of a concrete post. (18.035 meters or 59.170 feet.)

NOTE.—A report, dated February 1934, stated that lumber had apparently been piled on the mark, and that it seemed to have been run over by heavy vehicles.

G 10.—About 0.4 mile east along the Louisville & Nashville Railroad from the station at **Milligan**, Okaloosa County, at the bridge over Yellow River, in the top of the east concrete pier. A standard disk, stamped "G 10 1918." (19.459 meters or 63.842 feet.)

H 10.—About 1¾ miles west along the Louisville & Nashville Railroad from **Crestview**, Okaloosa County, 3 poles east of old milepost 92, and 10 yards north of the track. A standard disk, stamped "H 10 1918" and set in the top of a concrete post. (44.399 meters or 145.666 feet.)

I 10.—At **Crestview**, Okaloosa County, at the Okaloosa Hotel, in the south face at the southeast corner of the building, and about 2 feet higher than the sidewalk. A standard disk, stamped "I 10 1918" and set vertically. (71.234 meters or 233.707 feet.)

J 10.—About 2 miles east along the Louisville & Nashville Railroad from **Crestview**, Okaloosa County, 3 poles west of old milepost 96, and about 10 yards south of the track. A standard disk, stamped "J 10 1918" and set in the top of a concrete post. (34.184 meters or 112.152 feet.)

NOTE.—While this publication was in press, a report was received stating that the bench mark was 3 poles west of milepost L 703 (see note on page 21), 2 poles east of a county-road crossing, and 47 feet south of the track.

K 10.—About 3¼ miles east along the Louisville & Nashville Railroad from **Crestview**, Okaloosa County, and about ¼ mile east of old milepost 97, at the bridge over Shoal River, in the top of the south end of the east concrete pier. A standard disk, stamped "K 10 1918." (25.220 meters or 82.743 feet.)

L 10.—About 2.5 miles west along the Louisville & Nashville Railroad from **Deerland**, Okaloosa County, at old milepost 100, near a grade crossing, and

about 9 yards south of the track. A standard disk, stamped "L 10 1918" and set in the top of a concrete post. (66.382 meters or 217.788 feet.)

M 10.—At Deerland, Okaloosa County, on the Louisville & Nashville Railroad, midway between old mileposts 102 and 103, about 40 feet west of a road crossing, and about 9 yards south of the track. A standard disk, stamped "M 10 1918" and set in the top of a concrete post. (69.562 meters or 228.221 feet.)

N 10.—About 2.5 miles east along the Louisville & Nashville Railroad from Deerland, Okaloosa County, at Claroy Mill siding, at old milepost 105, and 7 yards south of the track. A standard disk, stamped "N 10 1918" and set in the top of a concrete post. (73.294 meters or 240.465 feet.)

O 10.—About 1½ miles west along the Louisville & Nashville Railroad from Mossyhead, Walton County, at old milepost 108, and about 9 yards south of the track. A standard disk, stamped "O 10 1918" and set in the top of a concrete post. (75.476 meters or 247.624 feet.)

P 10.—At Mossyhead, Walton County, on the Louisville & Nashville Railroad, about ½ mile west of old milepost 110, at the southwest corner of the section foreman's grounds, and near the section house. A standard disk, stamped "P 10 1918" and set in the top of a concrete post. (78.564 meters or 257.755 feet.)

Q 10.—About 2.5 miles east along the Louisville & Nashville Railroad from Mossyhead, Walton County, about 80 yards west of old milepost 112, and about 7 yards south of the track. A standard disk, stamped "Q 10 1918" and set in the top of a concrete post. (83.153 meters or 272.811 feet.)

R 10.—About 5.5 miles east along the Louisville & Nashville Railroad from Mossyhead, Walton County, about 60 yards west of old milepost 115, about 9 yards east of a grade crossing, and about 7 yards north of the track. A standard disk, stamped "R 10 1918" and set in the top of a concrete post. (90.550 meters or 297.079 feet.)

S 10.—About 4 miles west along the Louisville & Nashville Railroad from De Funiak Springs, Walton County, about 100 yards west of a grade crossing, at old milepost 118, and 6 yards south of the track. A standard disk, stamped "S 10 1918" and set in the top of a concrete post. (80.395 meters or 263.763 feet.)

T 10.—Destroyed. (77.708 meters or 254.947 feet.)

U 10.—At De Funiak Springs, Walton County, on the Louisville & Nashville Railroad, at old milepost 122, at the city water tank, about 40 yards south of the track, in the northeast concrete pier. A standard disk, stamped "U 10 1918." (76.793 meters or 251.955 feet.)

V 10.—At De Funiak Springs, Walton County, at the Louisville & Nashville Railroad station, in the east end of the concrete platform, alongside the east supporting pillar of the shed. A standard disk, stamped "V 10 1918." (79.175 meters or 259.760 feet.)

W 10.—At De Funiak Springs, Walton County, at the First National Bank, at the southeast corner, in the south face, about 2 feet higher than the sidewalk. A standard disk, stamped "W 10 1918." (80.776 meters or 265.013 feet.)

X 10.—About 2 miles west along the Louisville & Nashville Railroad from Argyle, Walton County, about 135 yards west of old milepost 125, about ¼ mile east of a road crossing, and about 10 yards south of the track. A standard disk, stamped "X 10 1918" and set in the top of a concrete post. (70.100 meters or 229.986 feet.)

Y 10.—At Argyle, Walton County, on the Louisville & Nashville Railroad, at old milepost 127, about 25 yards west of a grade crossing, and about 9 yards north of the track. A standard disk, stamped "Y 10 1918" and set in the top of a concrete post. (78.452 meters or 257.388 feet.)

Z 10.—In Holmes County, about 3.1 miles east along the Louisville & Nashville Railroad from Argyle, Walton County, about 0.1 mile east of old milepost 130, about ⅓ mile west of a grade crossing, and about 10 yards north of the track. A standard disk, stamped "Z 10 1918" and set in the top of a concrete post. (49.016 meters or 160.813 feet.)

A 11.—At Ponce de Leon, Holmes County, at the rear of the Louisville & Nashville Railroad station, in the north face of the T. P. Andrews residence, about 50 yards south of the track, and about 2 feet higher than the sidewalk. A standard disk, stamped "A 11 1918." (19.771 meters or 64.865 feet.)

B 11.—About 3 miles east along the Louisville & Nashville Railroad from Ponce de Leon, Holmes County, about ¼ mile east of Valle, about 70 yards

west of old milepost 137, and about 13 yards south of the track. A standard disk, stamped "B 11 1918" and set in the top of a concrete post. (19.944 meters or 65.433 feet.)

C 11.—At Westville, Holmes County, about 50 yards east of the Louisville & Nashville Railroad station, and about 13 yards west of the track. A standard disk, stamped "C 11 1918" and set in the top of a concrete post. (20.367 meters or 66.821 feet.)

D 11.—About $1\frac{3}{4}$ miles east along the Louisville & Nashville Railroad from Westville, Holmes County, and about $\frac{1}{4}$ mile east of old milepost 142, at the bridge over Choctawhatchee River, in the north end of the west concrete pier. A standard disk, stamped "D 11 1918." (18.768 meters or 61.575 feet.)

E 11.—At Caryville, Washington County, on the Louisville & Nashville Railroad, at old milepost 143, about 80 yards south of the track, in the north face of the northeast corner of the T. J. Miller residence, and about 2 feet higher than the ground. A standard disk, stamped "E 11 1918." (18.360 meters or 60.236 feet.)

F 11.—About 3 miles east along the Louisville & Nashville Railroad from Caryville, Washington County, about $\frac{1}{4}$ mile east of a grade crossing, about 155 yards west of old milepost 146, and about 15 yards south of the track. A standard disk, stamped "F 11 1918" and set in the top of a concrete post. (31.565 meters or 103.560 feet.)

G 11.—About $2\frac{1}{4}$ miles west along the Louisville & Nashville Railroad from Bonifay, Holmes County, at old milepost 149, and about 13 yards south of the track. A standard disk, stamped "G 11 1918" and set in the top of a concrete post. (33.393 meters or 125.961 feet.)

NOTE.—While this publication was in press, a report was received stating that the bench mark was 260 feet east of milepost L 756 (see note on page 21).

I 11.—At Bonifay, Holmes County, about 100 yards east of the Louisville & Nashville Railroad station, in front of the old Jeter Hardware Co. building, about 70 yards north of the track, at the southeast corner of the building, in the south end of the concrete sidewalk, about 9 inches from the building. A standard disk, stamped "I 11 1918." (38.432 meters or 126.089 feet.)

NOTE.—While this publication was in press, a report was received stating that the Jeter Hardware Co. building had been destroyed by fire.

H 11.—At Bonifay, Holmes County, on the Louisville & Nashville Railroad, at the northwest corner of the Bonifay Milling Co. building, in the north face, about 40 yards south of the track. A standard disk, stamped "H 11 1918." (36.435 meters or 119.537 feet.)

J 11.—About $2\frac{3}{4}$ miles east along the Louisville & Nashville Railroad from Bonifay, Holmes County, about $\frac{1}{8}$ mile east of old milepost 154, about 10 yards west of a grade crossing, and about 15 yards south of the track. A standard disk, stamped "J 11 1918" and set in the top of a concrete post. (24.523 meters or 80.456 feet.)

K 11.—About $2\frac{1}{2}$ miles west along the Louisville & Nashville Railroad from Chipley, Washington County, about $\frac{1}{4}$ mile east of old milepost 157, at a grade crossing, and about 15 yards north of the track. A standard disk, stamped "K 11 1918" and set in the top of a concrete post. (24.520 meters or 80.446 feet.)

L 11.—At Chipley, Washington County, at the First National Bank, at the northwest corner, near the north end of the stone step at the entrance, in the concrete sidewalk. A standard disk, stamped "L 11 1918." (34.730 meters or 113.943 feet.)

M 11.—At Chipley, Washington County, at the Chipley State Bank building, in the south face of the southeast corner, about $1\frac{1}{2}$ feet higher than the sidewalk. A standard disk, stamped "M 11 1918." (33.700 meters or 110.564 feet.)

N 11.—About $3\frac{1}{4}$ miles east along the Louisville & Nashville Railroad from Chipley, Washington County, 1 pole east of old milepost 163, about 240 yards west of a grade crossing, and about 10 yards south of the track. A standard disk, stamped "N 11 1918" and set in the top of a concrete post. (39.327 meters or 129.025 feet.)

Q 11.—At Aycock, Jackson County, 7 poles east of the Louisville & Nashville Railroad station, at a grade crossing, and about 14 yards north of the track. A standard disk, stamped "Q 11 1918" and set in the top of a concrete post. (40.480 meters or 132.808 feet.)

R 11.—At **Cottondale**, Jackson County, on the Louisville & Nashville Railroad, about 300 yards east of **Cottondale Junction**, at the rear of the freight depot, in the east corner of the **Williams Drug Co.** building, about 60 yards north of the track. A standard disk, stamped "R 11 1918." (41.219 meters or 135.233 feet.)

S 11.—About $2\frac{1}{2}$ miles east along the Louisville & Nashville Railroad from **Cottondale**, Jackson County, about 70 yards east of old milepost 172, and about 20 yards south of the track. A standard disk, stamped "S 11 1918" and set in the top of a concrete post. (44.197 meters or 145.003 feet.)

T 11.—About $3\frac{3}{4}$ miles west along the Louisville & Nashville Railroad from **Marianna**, Jackson County, about 17 yards west of old milepost 175, about 0.1 mile east of a grade crossing, and about 17 yards north of the track. A standard disk, stamped "T 11 1918" and set in the top of a concrete post. (47.217 meters or 154.911 feet.)

U 11.—About $1\frac{1}{4}$ miles west along the Louisville & Nashville Railroad from **Marianna**, Jackson County, at **Fairgrounds**, midway between old mileposts 177 and 178, at a road crossing, and about 13 yards north of the track. A standard disk, stamped "U 11 1918" and set in the top of a concrete post. (53.621 meters or 175.922 feet.)

V 11.—At **Marianna**, Jackson County, at the Louisville & Nashville Railroad station platform, at the side of the east pillar supporting the passenger shed, and about 5 yards north of the track. A standard disk, stamped "V 11 1918." (35.707 meters or 117.149 feet.)

W 11.—About $2\frac{1}{4}$ miles east along the Louisville & Nashville Railroad from **Marianna**, Jackson County, about 4 yards east of old milepost 181, and about 17 yards south of the track. A standard disk, stamped "W 11 1918" and set in the top of a concrete post. (30.331 meters or 99.511 feet.)

NOTE.—While this publication was in press, a report was received stating that the bench mark was 200 feet east of milepost L 700 (see note on page 21).

X 11.—At **Rocky**, Jackson County, on the Louisville & Nashville Railroad, about 60 yards east of a grade crossing, about 3 yards east of old milepost 184, and about 17 yards south of the track. A standard disk, stamped "X 11 1918" and set in the top of a concrete post. (35.870 meters or 117.683 feet.)

Y 11.—About $\frac{1}{4}$ mile east along the Louisville & Nashville Railroad from **Criglar siding**, Jackson County, about 80 yards east of old milepost 186, and about 20 yards south of the track. A standard disk, stamped "Y 11 1918" and set in the top of a concrete post. (39.266 meters or 128.825 feet.)

Z 11.—At **Cypress**, Jackson County, opposite the Louisville & Nashville Railroad station, about $\frac{3}{8}$ mile east of old milepost 189, and about 17 yards north of the track. A standard disk, stamped "Z 11 1918" and set in the top of a concrete post. (40.260 meters or 132.086 feet.)

A 12.—At **Grand Ridge**, Jackson County, about 70 yards west of the Louisville & Nashville Railroad station, at a grade crossing, and about 20 yards north of the track. A standard disk, stamped "A 12 1918" and set in the top of a concrete post. (40.237 meters or 132.011 feet.)

B 12.—About $2\frac{1}{4}$ miles east along the Louisville & Nashville Railroad from **Grand Ridge**, Jackson County, about $\frac{3}{8}$ mile west of **Inwood Siding**, about 100 yards east of old milepost 195, and about 14 yards south of the track. A standard disk, stamped "B 12 1918" and set in the top of a concrete post. (43.258 meters or 141.922 feet.)

C 12.—About $1\frac{3}{4}$ miles west along the Louisville & Nashville Railroad from **Sneads**, Jackson County, about 70 yards west of old milepost 197, and about 15 yards south of the track. A standard disk, stamped "C 12 1918" and set in the top of a concrete post. (44.739 meters or 146.781 feet.)

D 12.—At **Sneads**, Jackson County, about 30 yards west of the Louisville & Nashville Railroad station, about 60 yards west of a grade crossing, and about 15 yards north of the track. A standard disk, stamped "D 12 1918" and set in the top of a concrete post. (35.192 meters or 115.459 feet.)

E 12.—About $2\frac{1}{4}$ miles east along the Louisville & Nashville Railroad from **Sneads**, Jackson County, about 90 yards west of a grade crossing, about 2 yards west of old milepost 201, and about 13 yards south of the track. A standard disk, stamped "E 12 1918" and set in the top of a concrete post. (29.502 meters or 96.791 feet.)

For additional bench marks in the vicinity of **River Junction**, see page 17.

LINE 9, CEDAR KEYS TO ST. AUGUSTINE, FLA.

[First-order leveling]

This line follows State Highway 13 from Cedar Keys to Bronson; the abandoned line of the Seaboard Air Line Railway from Bronson, through Archer, to Gainesville; the Atlantic Coast Line Railroad from Gainesville to Palatka; and the Florida East Coast Railway from Palatka to St. Augustine. The line was originally run three times, in 1892, 1893, and 1894, by a party in charge of Isaac Winston, assistant, and the portion from Cedar Keys to St. Augustine was rerun, in 1916, by a party in charge of G. D. Cowie. During the winter of 1932-33, the entire line was rerun by a party in charge of W. R. Tucker, aid, and many new bench marks were established. The elevations given below are those resulting from the latest leveling.

Tidal 16.—At Cedar Keys, Levy County, east of the old Seaboard Air Line Railway station, on the south side of a shell road leading to the Standard Manufacturing Co. plant, in the face of the west wall of a warehouse, at the northwest corner, 6 inches below the bottom course of cement blocks. A standard disk, set vertically. (2.287 meters or 7.503 feet.)

Z=Tidal 6.—At Cedar Keys, Levy County, about 300 feet northwest of the old Seaboard Air Line Railway station, in an alley back of a row of small frame dwellings on an old park site, about 200 feet east of its intersection with A Street, on the south face of the southernmost round iron pier of a group of three piers. A cut at the center of the bottom of a 4- by 6-inch rectangular opening, marked "U.S.B.M." (3.991 meters or 13.094 feet.)

Y=Tidal 5.—At Cedar Keys, Levy County, about 300 feet northwest of the old Seaboard Air Line Railway station, in an alley back of a row of small frame dwellings on an old park site, about 200 feet east of its intersection with A Street, on the south face of the northernmost round iron pier of a group of three piers, about 2½ feet lower than the top. A chiseled cross, surrounded by the letters "U.S.B.M." (3.949 meters or 12.956 feet.)

Transit=Tidal 7.—At Cedar Keys, Levy County, about 300 feet northwest of the old Seaboard Air Line Railway station, in an alley back of a row of small frame dwellings on an old park site, about 200 feet east of its intersection with A Street, in the south face of the middle brick pier of a group of three piers, in the sixth course above the ground, in the second brick from the southwest corner. A cross cut in the top of a copper bolt. (3.832 meters or 12.572 feet.)

Tidal 17.—At Cedar Keys, Levy County, at the northeast corner of Second and B Streets, in the face of the west wall of the Cedar Keys Hotel, at the southwest corner. A standard disk, stamped "17 1923" and set vertically. (4.522 meters or 14.836 feet.)

Tidal 9.—At Cedar Keys, Levy County, near the southeast corner of Second and B Streets, in the garden at the rear of Hodge's store, about 45 feet south of the south wall of the store, and 5.3 feet east of a wire fence. A standard disk, set in the top of a 6-inch terra cotta pipe flush with the surface of the ground. (1.598 meters or 5.243 feet.)

Tidal 1=Perkins.—Destroyed prior to 1932.

Tidal 8.—At Cedar Keys, Levy County, near the corner of Second and C Streets, at the rear of the concrete store occupied by J. B. Lutterloh, 22.2 feet north of the north wall of the store, 22 feet east of a fence, and 3.7 feet west of another fence. A standard disk, set in the top of a 6-inch terra cotta pipe flush with the surface of the ground. (1.317 meters or 4.321 feet.)

Tidal 11.—At Cedar Keys, Levy County, near the corner of Second and C Streets, in the east wall of the Cedar Keys State Bank, near the north side of a cement doorsill. A standard disk, set vertically. (2.021 meters or 6.631 feet.)

Tidal 18.—At Cedar Keys, Levy County, at the southwest corner of Second and C Streets, in the east side of the cement porch of the old Maddox Theater. A standard disk, stamped "18 1923." (1.781 meters or 5.843 feet.)

Tidal 19.—At Cedar Keys, Levy County, on the north side of Second Street, about 60 feet east of D Street, in the front wall of a brick building, at the southwest corner, 3 feet higher than the sidewalk. A standard disk, stamped "19 1923" and set vertically. (2.806 meters or 9.206 feet.)

Tidal 20.—At Cedar Keys, Levy County, at the southwest corner of Second and E Streets, in the top of the northeast corner of the highest one of three retaining walls on the property. A standard disk, stamped "20 1923." (7.268 meters or 23.845 feet.)

Tidal 12.—At Cedar Keys, Levy County, at the United States Weather Bureau signal tower, on Federal land on Second Street between E and F Streets, on the slope of a hill at the rear of the buildings owned by Sam White, in the top of the concrete foundation supporting the southeast corner post of the iron tower, outside the tower, and about 20 inches higher than the ground. A standard disk, stamped "1914." (5.688 meters or 18.661 feet.)

Tidal 13.—At Cedar Keys, Levy County, at the United States Weather Bureau signal tower, on Federal land on Second Street between E and F Streets, on the slope of a hill at the rear of the buildings owned by Sam White, in the top of the concrete foundation supporting the northwest corner post of the iron tower, inside the tower, and level with the ground. A standard disk, stamped "1914." (5.740 meters or 18.832 feet.)

Tidal 21.—At Cedar Keys, Levy County, at the corner of Ninth and G Streets, at the public school building, in the top of the southwest corner of the front steps. A standard disk, stamped "21 1923." (5.519 meters or 18.107 feet.)

Tidal 22.—At Cedar Keys, Levy County, at Ninth and G Streets, at the public school, on the west side of the grounds, in the top of the southeast corner of the foundation of the water tank. A standard disk, stamped "22 1923." (5.092 meters or 16.706 feet.)

F 12.—About 0.4 mile northeast along State Highway 13 from Second Street at Cedar Keys, Levy County, at the northeast end of a bridge, 30 feet west of the center line of the highway, in the top of a 14-inch concrete retaining wall, about 5 feet above the water. A standard disk, stamped "F 12 1932." (1.631 meters or 5.351 feet.)

G 12.—About 2.2 miles northeast along State Highway 13 from Second Street at Cedar Keys, Levy County, at the northeast end of the second bridge east of Cedar Keys, 33 feet north of the center line of the highway, in the top of the concrete head wall. A standard disk, stamped "G 12 1932." (1.996 meters or 6.549 feet.)

A 1.—About $3\frac{1}{2}$ miles northeast along State Highway 13 from Second Street at Cedar Keys, Levy County, on the abandoned line of the Seaboard Air Line Railway, near the tenth pole east of the old highway crossing, about 200 feet south of the highway, and about 20 feet north of the center line of the old railroad grade. A standard disk, stamped "A 1" and set in the top of a concrete post. (2.603 meters or 8.540 feet.)

H 12.—About 6 miles northeast along State Highway 13 from Second Street at Cedar Keys, Levy County, about 210 feet southwest of Wadley's service station, and 18 feet west of the center line of the highway, in the top of the north head wall of a concrete culvert. A standard disk, stamped "H 12 1932." (2.517 meters or 8.258 feet.)

B 1.—About 8 miles northeast along State Highway 13 from Second Street at Cedar Keys, Levy County, on the abandoned line of the Seaboard Air Line Railway, about 0.3 mile south of the post office at Sumner, about 0.2 mile south of the highway, 85 feet west of the old railroad station, and about 45 feet south of the old railroad grade. A standard disk, stamped "B 1" and set in the top of a concrete post. (2.125 meters or 6.972 feet.)

Rosewood.—Destroyed prior to 1932.

J 12.—About $9\frac{1}{2}$ miles northeast along State Highway 13 from Second Street at Cedar Keys, Levy County, 75 feet south of the junction of State Highways 13 and 77, and 50 feet east of the center line of State Highway 13, on the southeast side of a ditch. A standard disk, stamped "J 12 1932" and set in the top of a concrete post. (5.163 meters or 16.939 feet.)

K 12.—About $10\frac{3}{4}$ miles northeast along State Highway 13 from Second Street at Cedar Keys, Levy County, about 1.3 miles northeast of the junction of State Highways 13 and 77, about 1 mile southwest of the old Seaboard Air Line Railway station at Wyllie, and 18 feet northwest of the center line of the highway, in the top of the northwest head wall of a culvert. A standard disk, stamped "K 12 1932." (5.104 meters or 16.745 feet.)

C 1.—About $11\frac{1}{4}$ miles northeast along State Highway 13 from Second Street at Cedar Keys, Levy County, on the abandoned line of the Seaboard Air Line Railway, about 2.3 miles east of the junction of State Highways 13 and 77, about 0.2 mile west of the old railroad station at Wylly, about 200 feet south of State Highway 13, and 35 feet north of the old railroad grade, near a pole. A standard disk, stamped "C 1" and set in the top of a concrete post. (4.874 meters or 15.991 feet.)

L 12.—About $7\frac{1}{2}$ miles southwest along State Highway 13 from Otter Creek, Levy County, about 4.2 miles northeast of the junction of State Highways 13 and 77, about 1.9 miles northeast of the old Seaboard Air Line Railway station at Wylly, about 0.9 mile southwest of a timber bridge, in a small clearing in a scattered pine grove, about 300 feet northeast of the junction of a farm road leading southeast, and 51 feet southeast of the center line of the highway. A standard disk, stamped "L 12 1932" and set in the top of a concrete post projecting about 6 inches above ground. (4.750 meters or 15.584 feet.)

D 1.—About $5\frac{1}{2}$ miles southwest along State Highway 13 from Otter Creek, Levy County, on the abandoned line of the Seaboard Air Line Railway, about $3\frac{1}{2}$ miles northeast of the old railroad station at Wylly, about 125 feet south of the highway, and about 30 feet north of the old railroad grade. A standard disk, stamped "D 1" and set in the top of a concrete post projecting about 18 inches above ground. (4.878 meters or 16.004 feet.)

M 12.—About $3\frac{1}{2}$ miles southwest along State Highway 13 from Otter Creek, Levy County, about 2.3 miles southwest of Ellzey, about 2.1 miles northeast of a timber bridge, and about 55 feet south of the center line of the highway. A standard disk, stamped "M 12 1932" and set in the top of a concrete post projecting about 6 inches above ground. (6.210 meters or 20.374 feet.)

N 12.—About 1.3 miles southwest along State Highway 13 from Otter Creek, Levy County, at Ellzey, in the north angle of the junction of State Highway 81, 35 feet northeast of the center line of State Highway 81, and 35 feet northwest of the center line of State Highway 13. A standard disk, stamped "N 12 1932" and set in the top of a concrete post projecting about 6 inches above ground. (7.704 meters or 25.276 feet.)

X.—Destroyed prior to 1932.

E 1.—Destroyed prior to 1932.

P 12.—At Otter Creek, Levy County, about 0.5 mile northwest of the post office, about 350 feet northwest of State Highway 13, at the school building, in the concrete foundation of the southeast wall, 1 foot southeast of the east corner, and 1 foot higher than the ground. A standard disk, stamped "P 12 1932" and set vertically. (8.710 meters or 28.576 feet.)

Otter Creek.—Destroyed prior to 1932.

Q 12.—About 2.1 miles northeast along State Highway 13 from Otter Creek, Levy County, near the east point of tangency of a curve, 18 feet northwest of the center line of the highway, in the top of the concrete head wall of a culvert. A standard disk, stamped "Q 12 1932." (9.110 meters or 29.888 feet.)

F 1.—About $2\frac{1}{2}$ miles northeast along State Highway 13 from Otter Creek, Levy County, on the abandoned line of the Seaboard Air Line Railway, about $\frac{1}{2}$ mile west of a water tank, about 250 feet east of a timber trestle, and 35 feet north of the center line of the railroad grade. A standard disk, stamped "F 1" and set in the top of a concrete post. (8.739 meters or 28.671 feet.)

G 1.—Destroyed prior to 1932.

R 12.—About $3\frac{1}{2}$ miles northeast along State Highway 13 from Otter Creek, Levy County, at the northeast end of a timber bridge, and 53 feet northwest of the center line of the highway. A standard disk, stamped "R 12 1932" and set in the top of a concrete post. (9.238 meters or 30.308 feet.)

S 12.—About 4.7 miles northeast along State Highway 13 from Otter Creek, Levy County, in the top of the concrete head wall of a culvert, and 18 feet northwest of the center line of the highway. A standard disk, stamped "S 12 1932." (11.127 meters or 36.508 feet.)

T 12.—About 5.5 miles northeast along State Highway 13 from Otter Creek, Levy County, at a high point of ground, 51 feet southeast of the center line of the highway. A standard disk, stamped "T 12 1932" and set in the top of a concrete post. (11.906 meters or 39.062 feet.)

U 12.—About 8 miles northeast along State Highway 13 from Otter Creek, Levy County, in the top of the concrete head wall of a 24-inch iron-pipe culvert, and 18 feet northwest of the center line of the highway. A standard disk, stamped "U 12 1932." (14.018 meters or 45.991 feet.)

H 1.—Destroyed prior to 1932.

V 12.—About 2½ miles southwest along State Highway 13 from the post office at **Bronson**, Levy County, in the top of the head wall of a concrete culvert, 18 feet southeast of the center line of the highway. A standard disk, stamped "V 12 1932." (16.966 meters or 55.663 feet.)

W 12.—About 1.7 miles southwest along State Highway 13 from the post office at **Bronson**, Levy County, in the top of the head wall of a concrete culvert, 18 feet southeast of the center line of the highway. A standard disk, stamped "W 12 1932." (19.252 meters or 63.163 feet.)

X 12.—About 0.7 mile southwest along State Highway 13 from the post office at **Bronson**, Levy County, at **West Bronson**, opposite the westernmost house on the highway, 52 feet northwest of the center line of the highway, near a small outhouse. A standard disk, stamped "X 12 1932" and set in the top of a concrete post. (19.547 meters or 64.130 feet.)

Y 12.—About 0.2 mile southwest along State Highway 13 from the post office at **Bronson**, Levy County, at the intersection of State Highways 13 and 19, in the top of the head wall of a concrete culvert, 18 feet west of the center line of State Highway 13. A standard disk, stamped "Y 12 1932." (18.614 meters or 61.069 feet.)

Bronson, top of highway at the intersection of the center lines of State Highways 13 and 19. (61.0 feet.)

Z 12.—At **Bronson**, Levy County, at the county courthouse, in the face of the northwest wall, 4 feet southwest of the north corner, and about 1½ feet higher than ground. A standard disk, stamped "Z 12 1932" and set vertically. (28.056 meters or 85.485 feet.)

I 1.—At **Bronson**, Levy County, at the school, about 230 feet northeast of the county courthouse, in the northwest corner of the yard. A standard magnetic-station disk, set in the top of a marble post. (23.582 meters or 77.369 feet.)

W.—Destroyed prior to 1932.

J 1.—Destroyed prior to 1932.

A 13.—About 1.2 miles northeast along the abandoned line of the Seaboard Air Line Railway from the post office at **Bronson**, Levy County, and 22 feet northwest of the center line of the railroad bed. A standard disk, stamped "A 13 1932" and set in the top of a concrete post projecting 6 inches above ground. (25.934 meters or 85.085 feet.)

K 1=MEREDITH.—About 3¼ miles northeast along the abandoned line of the Seaboard Air Line Railway from the post office at **Bronson**, Levy County, about 80 feet west of the station at **Meredith**, about 100 feet south of State Highway 13, and 35 feet north of the railroad bed. A standard disk, stamped "MEREDITH" and set in the top of a concrete post. (28.346 meters or 92.999 feet.)

B 13.—About 4 miles northeast along the abandoned line of the Seaboard Air Line Railway from the post office at **Bronson**, Levy County, at a dirt-road crossing, 22 feet east of the center line of the railroad bed, and 20 feet north of the road. A standard disk, stamped "B 13 1932" and set in the top of a concrete post. (24.645 meters or 80.856 feet.)

Albion.—Destroyed prior to 1932.

C 13.—About 5¼ miles northeast along the abandoned line of the Seaboard Air Line Railway from the post office at **Bronson**, Levy County, 25 feet south of a crossing, and 29 feet west of the center line of the railroad bed. A standard disk, stamped "C 13 1932" and set in the top of a concrete post. (28.944 meters or 94.960 feet.)

L 1.—Destroyed prior to 1932.

D 13.—About 1.1 miles southwest along the abandoned line of the Seaboard Air Line Railway from the freight station at **Archer**, Alachua County, 15 feet west of the center of an old road crossing, at the northeast end of a cut, 20 feet northwest of the center line of the railroad bed, and about 100 feet northwest of the center line of a dirt road paralleling the bed. A standard disk, stamped "D 13 1932" and set in the top of a concrete post projecting about 6 inches above ground. (25.046 meters or 82.172 feet.)

E 13.—About 0.1 mile southwest along the Seaboard Air Line Railway from the freight station at **Archer**, Alachua County, about 0.4 mile southwest of Union Station, across the track from the **Mattox Machine Co.** shop, and about 100 feet southwest of the southwest corner, about 31 feet south of the center line of the main track, and 25 feet west of the center line of **Mechanics Street**.

A standard disk, stamped "E 13 1932" and set in the top of a concrete post projecting about 4 inches above ground. (25.694 meters or 84.298 feet.)

F 13.—At Archer, Alachua County, 35 feet north of the north side of Union Station, 20 feet west of the center line of the Atlantic Coast Line Railroad track, and 20 feet north of the center line of the Seaboard Air Line Railway track. A standard disk, stamped "F 13 1932" and set in the top of a concrete post projecting about 6 inches above ground. (27.782 meters or 91.148 feet.)

M 1.—Destroyed prior to 1932.

ARCHER.—At Archer, Alachua County, about 800 feet northwest along the Atlantic Coast Line Railroad from Union Station, 25 feet west of the center line of the track, and 45 feet south of the center line of State Highway 13. A standard disk, stamped "ARCHER 1932" and set in the top of a concrete post projecting about 6 inches above ground. (26.752 meters or 87.769 feet.)

NOTE.—This bench mark is not to be confused with the old mark "Archer 1892", given below.

Archer 1892.—Destroyed prior to 1932.

For additional bench marks in the vicinity of Archer, see page 61.

Archer, top of rail at the intersection of the Atlantic Coast Line Railroad and the Seaboard Air Line Railway. (88.6 feet.)

G 13.—About 0.5 mile northeast along the Seaboard Air Line Railway from Union Station at Archer, Alachua County, at the west end of a cut, near pole 27-L 20, 27 feet south of the center line of the track, and 20 feet north of the center line of a dirt road. A standard disk, stamped "G 13 1932" and set in the top of a concrete post projecting about 6 inches above ground. (27.131 meters or 89.012 feet.)

H 13.—About 2.1 miles northeast along the Seaboard Air Line Railway from Union Station at Archer, Alachua County, about 0.2 mile east of Peach Orchard siding and crossing, about 135 feet east of milepost 716, about 200 feet west of the fork of 2 dirt roads, 30 feet south of the center line of the track, and 20 feet north of the center line of a dirt road. A standard disk, stamped "H 13 1932" and set in the top of a concrete post. (25.659 meters or 84.183 feet.)

N 1.—About 2.7 miles northeast along the Seaboard Air Line Railway from Union Station at Archer, Alachua County, about 1.1 miles west of Palmer siding switch and station sign, about 385 feet east of the east end of a guard rail fence on State Highway 13, 65 feet south of the center line of the highway, and 20 feet north of the center line of the track. A standard disk, set in the top of a concrete post. (25.676 meters or 84.239 feet.)

NOTE.—There is no longer a station at Palmer.

O 1.—Destroyed prior to 1932.

V.—Destroyed prior to 1932.

J 13.—About 4.0 miles northeast along the Seaboard Air Line Railway from Union Station at Archer, Alachua County, about 0.2 mile east of Palmer siding, about 270 feet west of milepost 714, near the west end of a long fill, 30 feet south of the center line of the track, and 20 feet north of the center line of a dirt road. A standard disk, stamped "J 13 1932" and set in the top of a concrete post. (20.280 meters or 66.535 feet.)

K 13.—About 6 miles northeast along the Seaboard Air Line Railway from Union Station at Archer, Alachua County, 48 feet south of milepost 712, near the east end of a short fill, and 30 feet south of the center line of the track. A standard disk, stamped "K 13 1932" and set in the top of a concrete post. (23.831 meters or 78.186 feet.)

P 1.—About 6 $\frac{3}{4}$ miles northeast along the Seaboard Air Line Railway from Union Station at Archer, Alachua County, about 1.3 miles southwest of the station at Arredondo, about 195 feet southwest of a switch, about 100 feet northwest of an old wooden shed, 35 feet north of an old 3- by 8-foot concrete foundation, 27 feet north of the center line of the track, and 20 feet south of the center line of State Highway 13. A standard disk, set in the top of a concrete post. (26.499 meters or 86.939 feet.)

L 13.—About 8.2 miles northeast along the Seaboard Air Line Railway from Union Station at Archer, Alachua County, opposite milepost 710, about 96 feet west of the station at Arredondo, 45 feet south of the center line of State Highway 13, and 30 feet north of the center line of the main track. A standard disk, stamped "L 13 1932" and set in the top of a concrete post projecting about 6 inches above ground. (27.472 meters or 90.181 feet.)

U.—Not recovered in 1932.

M 13.—About 4 miles southwest along the Seaboard Air Line Railway from the intersection of the Atlantic Coast Line Railroad at Gainesville, Alachua County, about 0.5 mile west of the station at Daysville, about 360 feet west of milepost 708, 25 feet east of a road crossing, and 20 feet south of the center line of the track. A standard disk, stamped "M 13 1932" and set in the top of a concrete post projecting about 6 inches above ground. (23.628 meters or 77.520 feet.)

Q 1.—About 3½ miles southwest along the Seaboard Air Line Railway from the intersection of the Atlantic Coast Line Railroad at Gainesville, Alachua County, about 30 feet east of the station at Daysville, 30 feet north of the track, and 15 feet north of an old highway, near a pole. A standard disk, set in the top of a concrete post. (25.008 meters or 82.047 feet.)

N 13.—About 2 miles southwest along the Seaboard Air Line Railway from the intersection of the Atlantic Coast Line Railroad at Gainesville, Alachua County, at the crossing of State Highway 13, about 248 feet east of the northeast corner of a substation of the Florida Power Corporation, 36 feet east of the center line of the highway, and 24 feet northwest of the center line of the track. A standard disk, stamped "N 13 1932" and set in the top of a concrete post projecting about 6 inches above ground. (28.490 meters or 93.471 feet.)

P 13.—At Gainesville, Alachua County, at the southwest corner of the intersection of the Jacksonville, Gainesville & Gulf Railway and the Seaboard Air Line Railway, 20 feet south of the center line of the Seaboard Air Line Railway track, and 25 feet west of the center line of the Jacksonville, Gainesville & Gulf Railway track, near a pole and a railroad-crossing sign. A standard disk, stamped "P 13 1932" and set in the top of a concrete post projecting about 6 inches above ground. (39.886 meters or 130.859 feet.)

Gainesville, top of east rail of the Jacksonville, Gainesville & Gulf Railway at the intersection of the Seaboard Air Line Railway. (131.9 feet.)

Q 13.—At Gainesville, Alachua County, at the southwest corner of the intersection of the Atlantic Coast Line Railroad and the Seaboard Air Line Railway, 40 feet south of the Seaboard Air Line Railway tracks, 20 feet west of the center line of the Atlantic Coast Line Railroad tracks, and 12 feet west of Main Street. A standard disk, stamped "Q 13 1932" and set in the top of a concrete post projecting about 5 inches above ground. (42.398 meters or 139.101 feet.)

Gainesville, top of north rail of the Seaboard Air Line Railway at the intersection of the Atlantic Coast Line Railroad. (139.4 feet.)

For additional bench marks in the vicinity of Gainesville, see page 6.

R 1.—At Gainesville, Alachua County, about 80 feet east of the east end of the Seaboard Air Line Railway passenger station, between the main track and a sidetrack. A standard disk, set in the top of a concrete post. (42.871 meters or 140.653 feet.)

S 1.—At Gainesville, Alachua County, at the post office, in the face of the north wall, at the northeast corner. A standard disk, set vertically. (53.029 meters or 173.979 feet.)

T 1.—At Gainesville, Alachua County, southeast of the county courthouse, near the northeast corner of McCallum's Drug Store, in the face of the east wall. A standard disk, set vertically. (54.656 meters or 179.317 feet.)

S.—At Gainesville, Alachua County, at the corner of University Avenue and North Main Street, south of the southwest corner of the courthouse square, in the Woodbridge Building, at Chitley's store, at the front entrance to the second story of the building, in the middle of the doorway. The top of a smooth band on the outer edge of the door sill. (53.945 meters or 176.985 feet.)

T.—Destroyed prior to 1932.

R.—At Gainesville, Alachua County, at the southeast corner of the county courthouse yard, in the top of an 8-inch square marble post projecting about 2 inches above ground. The bottom of a square cut. (53.879 meters or 176.768 feet.)

R 13.—At Gainesville, Alachua County, at the Atlantic Coast Line Railroad passenger station, about 120 feet west of the northwest corner of the intersection of Main Street and a cross street, about 60 feet west of the west wall of the station, in a triangular grass garden, 20 feet east of the angle formed

by a hedge, and 5 feet north of the north edge of the sidewalk on the north side of the street, just inside the hedge. A standard disk, stamped "R 13 1932" and set in the top of a concrete post. (54,751 meters or 179,629 feet.)

V 3.—At Gainesville, Alachua County, about 1 mile west of the county courthouse, at the University of Florida, about 500 feet northeast of the north entrance to the Engineering Building. The top of a stone post marking the meridian for a magnetic station, and inscribed "U.S.C. & G.S. 1914." (51,242 meters or 168,116 feet.)

U 3.—At Gainesville, Alachua County, about 1 mile west of the county courthouse, at the University of Florida, about 325 feet east of the north entrance to the Engineering Building. The top of a stone post marking a magnetic station, and inscribed "U.S.C. & G.S. 1914." (50,811 meters or 166,702 feet.)

S 3.—At Gainesville, Alachua County, about 1 mile west of the county courthouse, at the University of Florida, in the bottom step at the north entrance to the Engineering Building. A standard disk, stamped "S 3 167,903." (51,204 meters or 167,902 feet.)

T 3.—Destroyed. (51,230 meters or 168,077 feet.)

S 13.—About 1.8 miles southeast along the Atlantic Coast Line Railroad from the passenger station at Gainesville, Alachua County, about 0.2 mile southeast of milepost P 47, at a dirt-road crossing, at the crest of a slight grade, near the east cattle guard, about 43 feet east of a wooden gate at a fence corner, 25 feet south of the center line of the dirt road, 23.4 feet southwest of the southwest rail, and 3 feet north of a fence corner. A standard disk, stamped "S 13 1932" and set in the top of a concrete post projecting about 6 inches above ground. (37,041 meters or 121,525 feet.)

T 13.—About 3.6 miles southeast along the Atlantic Coast Line Railroad from the passenger station at Gainesville, Alachua County, 4 feet east of milepost P 45, about 0.1 mile west of a deep limestone depression, about 180 feet west of another, on the outside of a long curve, about 31 feet northeast of the northeast rail, on the bank of a slight cut, and 2 feet inside of a wire fence. A standard disk, stamped "T 13 1932" and set in the top of a concrete post projecting about 7 inches above ground. (30,201 meters or 99,084 feet.)

U 13.—About 6.4 miles southeast along the Atlantic Coast Line Railroad from the passenger station at Gainesville, Alachua County, about 0.2 mile northwest of milepost P 42, at an old road crossing, 40 feet southeast of the center of the west cattle guard, near the crest of a grade, 33.4 feet south of the south rail, 28 feet northeast of a fence corner, and 24 feet west of a dirt road. A standard disk, stamped "U 13 1932" and set in the top of a concrete post projecting about 6 inches above ground. (29,818 meters or 97,828 feet.)

V 13.—About 0.5 mile west along the Atlantic Coast Line Railroad from Rochelle, Alachua County, about 50 feet south of an old paved road parallel to the railroad, 30 feet north of the center line of the track, 30 feet north of the east cattle guard, and 10 feet east of a road crossing. A standard disk, stamped "V 13 1932" and set in the top of a concrete post projecting about 6 inches above ground. (22,334 meters or 73,274 feet.)

P.T.S. 40 (U.S.G.S.).—At Rochelle, Alachua County, on the Atlantic Coast Line Railroad, 15 feet southeast of the main entrance to the schoolhouse. A United States Geological Survey standard cap, stamped "PRIM. TRAV. STA. NO. 40" and riveted on the top of a 3½-inch iron pipe. (25,067 meters or 82,241 feet.)

W 13.—About 0.2 mile east along the Atlantic Coast Line Railroad from Rochelle, Alachua County, about 100 feet west of a road crossing, 20 feet north of the center line of the track, and 15 feet northwest of the point of the frog at a Y-switch. A standard disk, stamped "W 13 1932" and set in the top of a concrete post projecting about 4 inches above ground. (24,808 meters or 80,735 feet.)

Q.—Destroyed prior to 1932.

X 13.—About 6.7 miles west along the Atlantic Coast Line Railroad from Hawthorne, Alachua County, at Phifer, at the northwest corner of a road crossing, 30 feet west of the road, and 20 feet north of the center line of the track, across the track from an old platform. A standard disk, stamped "X 13 1932" and set in the top of a concrete post projecting about 4 inches above ground. (34,137 meters or 111,998 feet.)

P.—Destroyed prior to 1932.

Y 13.—About 4.7 miles west along the Atlantic Coast Line Railroad from Hawthorne, Alachua County, about 228 feet east of the station at Grove Park,

and 20 feet south of the center line of the track. A standard disk, stamped "Y 13 1932" and set in the top of a concrete post projecting about 6 inches above ground. (29.814 meters or 97.815 feet.)

Z 13.—About 2.7 miles west along the Atlantic Coast Line Railroad from Hawthorne, Alachua County, at a dirt-road crossing, 25 feet south of the center line of the track, and 20 feet from the road. A standard disk, stamped "Z 13 1932" and set in the top of a concrete post projecting about 4 inches above ground. (37.910 meters or 124.376 feet.)

A 14.—About $\frac{1}{2}$ mile west along the Atlantic Coast Line Railroad from Union Station at Hawthorne, Alachua County, at the northwest corner of a road crossing, 25 feet north of the center line of the track, and 20 feet west of the road. A standard disk, stamped "A 14 1932" and set in the top of a concrete post projecting about 6 inches above ground. (39.245 meters or 128.756 feet.)

B 14.—At Hawthorne, Alachua County, 30 feet south of the southwest corner of Union Station, at the southeast corner of the intersection of the Atlantic Coast Line Railroad and the Seaboard Air Line Railway, 18 feet south of the Atlantic Coast Line Railroad track, and 18 feet east of the Seaboard Air Line Railway track. A standard disk, stamped "B 14 1932" and set in the top of a concrete post projecting about 5 inches above ground. (42.974 meters or 140.991 feet.)

O.—Destroyed prior to 1932.

N.—Destroyed prior to 1932.

C 14.—About 0.7 mile east along the Atlantic Coast Line Railroad from Union Station at Hawthorne, Alachua County, about 400 feet west of milepost, 30, and 25 feet south of the center line of the track, at the point of the switch. A standard disk, stamped "C 14 1932" and set in the top of a concrete post projecting about 6 inches above ground. (43.390 meters or 142.355 feet.)

D 14.—In Putnam County, about $3\frac{1}{2}$ miles east along the Atlantic Coast Line Railroad from Union Station at Hawthorne, Alachua County, about 1.3 miles west of the station at McMeekin, at the northeast corner of a dirt-road crossing, 18 feet north of the center line of the track, and 18 feet east of the center line of the road. A standard disk, stamped "D 14 1932" and set in the top of a concrete post projecting about 6 inches above ground. (37.083 meters or 121.633 feet.)

E 14.—In Putnam County, about $4\frac{1}{4}$ miles east along the Atlantic Coast Line Railroad from Union Station at Hawthorne, Alachua County, about 135 feet west of the station at McMeekin, at a road crossing, 45 feet west of the center line of the road, and 35 feet north of the center line of the track. A standard disk, stamped "E 14 1932" and set in the top of a concrete post projecting about 6 inches above ground. (33.290 meters or 109.219 feet.)

P.T.S. 3 (U.S.G.S.).—In Putnam County, about 5 miles east along the Atlantic Coast Line Railroad from Union Station at Hawthorne, Alachua County, in line with the west side of the station at McMeekin, north of the track, about 100 feet west of the northwest corner of a two-story building, on the site formerly occupied by L. J. Stoke's store, and 3 feet inside a fence. A United States Geological Survey standard cap, stamped "PRIM. TRAV. STA. NO. 3" and riveted on the top of a $3\frac{1}{2}$ -inch iron pipe. (36.559 meters or 119.944 feet.)

M.—In Putnam County, about 5 miles east along the Atlantic Coast Line Railroad from Union Station at Hawthorne, Alachua County, just west of the station at McMeekin, north of the track, in the enclosure just north of the site formerly occupied by L. J. Stoke's store. A chiseled square, surrounded by the letters "U.S.C. & G.S.B.M." cut on the top of a stone post. (36.518 meters or 119.809 feet.)

F 14.—In Putnam County, about $6\frac{1}{4}$ miles east along the Atlantic Coast Line Railroad from Union Station at Hawthorne, Alachua County, about 2.0 miles east of the station at McMeekin, about 40 feet west of milepost 24, near the first pole west of the milepost, at a dirt-road crossing, at the east end of a cut, at the west end of a fill, 27 feet north of the center line of the track, and 10 feet east of the center line of the road. A standard disk, stamped "F 14 1932" and set in the top of a concrete post projecting about 6 inches above ground. (32.350 meters or 106.135 feet.)

G 14.—About 4.6 miles west along the Atlantic Coast Line Railroad from Interlachen, Putnam County, 20 feet east of the east side of the station at Edgar, in the station yard, about 0.1 mile east of milepost 22, 15 feet north of a dirt road, and 12 feet south of the center line of the track, just inside the north-

east corner of a wooden fence enclosing the station yard. A standard disk, stamped "G 14 1932" and set in the top of a concrete post projecting about 5 inches above ground. (27.121 meters or 88.979 feet.)

H 14.—About 2.4 miles west along the Atlantic Coast Line Railroad from Interlachen, Putnam County, about 0.3 mile west of the station at Keuka, about 0.3 mile east of milepost 20, about 500 feet west of the point of tangency of a curve, at the crest of a grade, at a dirt-road crossing, 30 feet north of the center line of the track, and 20 feet east of the center line of the road, near a pole. A standard disk, stamped "H 14 1932" and set in the top of a concrete post projecting about 5 inches above ground. (31.640 meters or 103.806 feet.)

J 14.—At Interlachen, Putnam County, about 150 feet west of the Atlantic Coast Line Railroad station, about 0.3 mile west of milepost 17, at a street crossing, between the main track and a siding, 25 feet west of the center line of the street, and 15 feet north of the center line of the main track. A standard disk, stamped "J 14 1932" and set in the top of a concrete post projecting about 6 inches above ground. (31.836 meters or 104.449 feet.)

L.—Destroyed prior to 1932.

K 14.—About 1.8 miles east along the Atlantic Coast Line Railroad from Interlachen, Putnam County, about 250 feet east of the station at Mannville, about 105 feet south of State Highway 14, at a road crossing, near the crossing sign, about 35 feet north of a dirt road, 20 feet east of a switch point, 18 feet south of the center line of the track, and 10 feet east of the road. A standard disk, stamped "K 14 1932" and set in the top of a concrete post projecting about 6 inches above ground. (25.659 meters or 84.183 feet.)

L 14.—About 3.8 miles east along the Atlantic Coast Line Railroad from Interlachen, Putnam County, about 2.0 miles east of the station at Mannville, at a dirt-road crossing, 25 feet south of the center line of the track, and 15 feet southwest of a warning sign. A standard disk, stamped "L 14 1932" and set in the top of a concrete post projecting about 6 inches above ground. (24.192 meters or 79.370 feet.)

K.—About 5 miles east along the Atlantic Coast Line Railroad from Interlachen, Putnam County, at Hollister, about 150 feet east of the general store and post office, about 117 feet east of a road crossing, and 45 feet north of the north rail of the main track. The bottom of a square hole in the top of an 8-by 8-inch stone post. (24.324 meters or 79.803 feet.)

M 14.—About 5.7 miles east along the Atlantic Coast Line Railroad from Interlachen, Putnam County, at the southwest corner of a dirt-road crossing, across the track from the residence of P. M. Gilbert, 30 feet south of the center line of the track, and 18 feet west of the road. A standard disk, stamped "M 14 1932" and set in the top of a concrete post. (23.372 meters or 76.680 feet.)

N 14.—About 8.3 miles east along the Atlantic Coast Line Railroad from Interlachen, Putnam County, about 370 feet west of the point of a switch for Hunter siding, at a dirt-road crossing, about 25 feet west of the road, and 18 feet north of the center line of the track. A standard disk, stamped "N 14 1932" and set in the top of a concrete post projecting about 6 inches above ground. (8.306 meters or 27.251 feet.)

P 14.—About 5¾ miles west along the Atlantic Coast Line Railroad from Union Station at Palatka, Putnam County, at a concrete viaduct carrying State Highway 14 over the railroad, in the center of the north concrete abutment, 15 feet north of the center line of the track, and 2 feet higher than the ground. A standard disk, stamped "P 14 1932." (17.956 meters or 58.911 feet.)

Francis.—Destroyed prior to 1932.

Q 14.—About 4¼ miles west along the Atlantic Coast Line Railroad from Union Station at Palatka, Putnam County, about 600 feet east of the station at Francis, at the southwest corner of a dirt-road crossing, 30 feet south of the center line of the track, and about 25 feet west of the center line of the road. A standard disk, stamped "Q 14 1932" and set in the top of a concrete post projecting about 6 inches above ground. (21.016 meters or 68.950 feet.)

R 14.—About 2 miles west along the Atlantic Coast Line Railroad from Union Station at Palatka, Putnam County, at the northwest corner of a dirt-road crossing, 25 feet north of the center line of the track, and 18 feet west of the road. A standard disk, stamped "R 14 1932" and set in the top of a concrete post projecting about 6 inches above ground. (21.452 meters or 70.380 feet.)

S 14.—About 0.7 mile west along the Atlantic Coast Line Railroad from Union Station at Palatka, Putnam County, at a dirt-road crossing, about 90

feet west of the road, 45 feet southwest of the point of a switch of a lumber-yard track, and 25 feet south of the center line of the track. A standard disk, stamped "S 14 1932" and set in the top of a concrete post. (10.877 meters or 35.686 feet.)

23.6 (U.S.G.S.).—At **Palatka**, Putnam County, at Union Station, at the southeast corner of the train shed and platform, in the top of the corner of a concrete curb. A chiseled square. (7.090 meters or 23.261 feet.)

T 14.—At **Palatka**, Putnam County, on the Atlantic Coast Line Railroad, at the Water Street Station, about 225 feet west of the west end of the bridge over St. Johns River, 75 feet north of the north end of the freight station, 25 feet east of the center line of North First Street, and 10 feet north of the center line of the track. A standard disk, stamped "T 14 1932" and set in the top of a concrete post projecting about 4 inches above ground. (3.014 meters or 9.888 feet.)

J.—At **Palatka**, Putnam County, near the west end of the bridge over St. Johns River, about 100 feet south of the Atlantic Coast Line Railroad track, on the river front, at a two-story brick building occupied by a railroad office and freight warehouse, at the northernmost door on the west side of the building, in the south edge of the granite doorsill. A chiseled square, lettered "U.S.B.M." (3.698 meters or 12.133 feet.)

For additional bench marks in the vicinity of Palatka, see pages 51, 52, 72, and 73.

U 14.—At **East Palatka**, Putnam County, on the Florida East Coast Railway, about 280 feet south of the passenger station, 55 feet west of the center line of State Highway 14, and 36 feet east of the main track, near a standpipe. A standard disk, stamped "U 14 1932" and set in the top of a concrete post projecting about 6 inches above ground. (5.196 meters or 17.047 feet.)

I.—Destroyed prior to 1932.

V 14.—About 2.0 miles north along the Florida East Coast Railway from the passenger station at **East Palatka**, Putnam County, at the northeast corner of a dirt-road crossing, 30 feet north of the center line of the track, and about 25 feet east of the road. A standard disk, stamped "V 14 1932" and set in the top of a concrete post projecting about 4 inches above ground. (6.078 meters or 19.941 feet.)

W 14.—About 3¼ miles northeast along the Florida East Coast Railway from the passenger station at **East Palatka**, Putnam County, near the station at **Orange Mills**, 25 feet south of the center line of the main track, and 7 feet east of the northeast pier of the station. A standard disk, stamped "W 14 1932" and set in the top of a concrete post projecting about 6 inches above ground. (4.619 meters or 15.154 feet.)

P.T.S. 7 (U.S.G.S.).—About 3¼ miles northeast along the Florida East Coast Railway from the station at **East Palatka**, Putnam County, at the west side of the station at **Orange Mills**, between two middle piers and about 30 feet south of the center line of the main track. A United States Geological Survey standard cap, stamped "PRIM. TRAV. STA. NO. 7" and riveted on the top of a 3½-inch iron pipe. (4.238 meters or 13.904 feet.)

H.—Not recovered in 1932.

X 14.—In Putnam County, about 2.0 miles southwest along the Florida East Coast Railway from the passenger station at **Hastings**, St. Johns County, about 0.2 mile east of milepost Jax 56, at a dirt-road crossing, midway between two cattle guards, 45 feet south of the center line of the track, and 20 feet east of the center line of the road, near pole 3. A standard disk, stamped "X 14 1932" and set in the top of a concrete post projecting about 6 inches above ground. (2.747 meters or 9.012 feet.)

Y 14.—At **Hastings**, St. Johns County, on the Florida East Coast Railway, about 0.2 mile east of milepost Jax 54, about 222 feet west of the Main Street crossing, opposite the track from a point midway between the passenger and freight stations, 24 feet north of the center line of the main track, 21 feet south of a driveway, and 15 feet west of a point 44 feet north of the northwest corner of the passenger station, near a pole between two sidetracks. A standard disk, stamped "Y 14 1932" and set in the top of a concrete post projecting about 5 inches above ground. (2.857 meters or 9.373 feet.)

G.—At **Hastings**, St. Johns County, about 350 feet northeast of the Florida East Coast Railway station, one block northeast of the post office, at a large two-story frame house with a veranda surrounding the second story, on the north side of the house, and about 2 feet north of the east corner of the

veranda. The bottom of a square cut in the top of a marble post buried about 1 foot underground. (2.185 meters or 7.103 feet.)

P.T.S. 8 (U.S.G.S.)—At **Hastings**, St. Johns County, about 300 feet south of the Florida East Coast Railway station, on Main Street, at Lovett's Meat Market, about 1 foot inside the south show window, and about 4 inches below the surface of the floor, but not covered. A United States Geological Survey standard cap, riveted on the top of a 3½-inch iron pipe. (2.625 meters or 8.612 feet.)

Z 14.—About 1.8 miles northeast along the Florida East Coast Railway from the passenger station at **Hastings**, St. Johns County, at milepost Jax 52, and 45 feet south of the center line of the track. A standard disk, stamped "Z 14 1932" and set in the top of a concrete post projecting about 5 inches above ground. (8.797 meters or 12.457 feet.)

A 15.—About 2.4 miles southwest along the Florida East Coast Railway from the passenger station at **Elkton**, St. Johns County, about 0.5 mile southwest of the station at **Armstrong**, about 0.5 mile east of milepost Jax 50, and 27 feet north of the center line of the main track, near the southeast corner of a fence surrounding a section-gang quarters, near a pole. A standard disk, stamped "A 15 1932" and set in the top of a concrete post projecting about 6 inches above ground. (13.968 meters or 45.827 feet.)

F.—Not recovered in 1932.

B 15.—At **Elkton**, St. Johns County, at the Florida East Coast Railway passenger station, about 0.1 mile west of milepost Jax 47, about 117 feet east of the east end of the station, near the southeast corner of the station yard, 85 feet south of the center line of State Highway 14, and 20 feet north of the center line of the main track. A standard disk, stamped "B 15 1932" and set in the top of a concrete post projecting about 4 inches above ground. (10.853 meters or 35.607 feet.)

C 15.—About 1.9 miles northeast along the Florida East Coast Railway from the passenger station at **Elkton**, St. Johns County, about 0.2 mile west of milepost Jax 45, about 210 feet east of the center of the crossing of State Highway 14, about 125 feet north of the center line of the highway, and 45 feet south of the center line of the track, near a pole. A standard disk, stamped "C 15 1932" and set in the top of a concrete post projecting about 8 inches above ground. (11.263 meters or 36.952 feet.)

D 15.—About 6¼ miles southwest along the Florida East Coast Railway from the station at **St. Augustine**, St. Johns County, about 2.7 miles southwest of **Tocoi Junction**, about 0.3 mile east of milepost Jax 43, and 33 feet south of the center line of the track, near a pole. A standard disk, stamped "D 15 1932" and set in the top of a concrete post projecting about 6 inches above ground. (12.964 meters or 42.533 feet.)

E 15.—About 3½ miles southwest along the Florida East Coast Railway from the passenger station at **St. Augustine**, St. Johns County, at **Tocoi Junction**, opposite milepost Jax 40, at the northwest corner of the station platform, 10 feet south of the center line of the main track. A standard disk, stamped "E 15 1932" and set in the top of a concrete post projecting about 5 inches above ground. (11.094 meters or 36.398 feet.)

E.—Destroyed prior to 1932.

F 15.—About 1½ miles southwest along the Florida East Coast Railway from the passenger station at **St. Augustine**, St. Johns County, about 200 feet west of milepost Jax 38, at a road crossing, at the west point of tangency of a curve, 35 feet north of the center line of the main track, 22 feet north of the center line of a sidetrack, and 23 feet east of the center line of a highway, near a pole. A standard disk, stamped "F 15 1932" and set in the top of a concrete post projecting about 4 inches above ground. (11.420 meters or 37.467 feet.)

G 15.—About 0.7 mile south along the Florida East Coast Railway, from the passenger station at **St. Augustine**, St. Johns County, about 220 feet south of Palmer Avenue crossing, at the junction of the Moultrie Cut-Off double track and the old main line to East Palatka, 8 feet west of the center line of the south-bound main track of the Moultrie Cut-Off, and 7 feet east of the center line of the main track to **Hastings**, in the top of a 2-foot square concrete foundation of a signal tower, 1 foot higher than the ground. A standard disk, stamped "G 15 1932." (4.816 meters or 15.800 feet.)

H 15.—At **St. Augustine**, St. Johns County, near the north end of the platforms at the Florida East Coast Railway station, about 700 feet north of the

northwest corner of the railroad office building, about 300 feet north of the north end of the bridge over San Sebastian River, across the track from two water tanks, 15 feet west of the south-bound main track leading across the bridge, and near the northeast corner of an old brick roundhouse. A standard disk, stamped "H 15 1932" and set in the top of a concrete post projecting about 3 inches above ground. (1.925 meters or 6.316 feet.)

D=Tidal 7.—At St. Augustine, St. Johns County, on the United States Reservation between King and Cathedral Streets, west of St. George Street, about 10 feet west of the west end of the customhouse, and about 40 feet south of the south edge of a sidewalk on the south side of Cathedral Street. The bottom of a chiseled square on the top of an 8- by 8-inch marble post, lettered "U.S.C. & G.S. B.M." (2.349 meters or 7.707 feet.)

C=Tidal 6.—At St. Augustine, St. Johns County, at the intersection of King and St. George Streets, on the corner of a low curbing. The bottom of a square cut, marked "U.S." (2.364 meters or 7.756 feet.)

NOTE.—This point was located as described but it has been worn away by traffic.

B=Tidal 5.—At St. Augustine, St. Johns County, about 350 feet south of King Street, in front of the center of the entrance to the Municipal Yacht Pier and Chamber of Commerce, and near the southwest corner of a granite stone. The top of the stone, lettered "U.S.B.M." (1.951 meters or 6.401 feet.)

A=Tidal 4.—Destroyed prior to 1932.

Tidal.—Destroyed prior to 1932.

Hitchcock.—Destroyed prior to 1932.

Fairfield.—Destroyed prior to 1932.

J 15.—At St. Augustine, St. Johns County, at the corner of King and Charlotte Streets, at the old Slave Market on the United States Government Reservation, about 90 feet west of the statue of Juan Ponce de Leon in the Park, at the foot of the northeast pillar, near a bronze rectangular tablet describing the building, in the north face of the pillar, 1 foot west of the northeast corner, and 2 feet higher than the ground. A standard disk, stamped "J 15 1932" and set vertically. (2.319 meters or 7.608 feet.)

Marion.—About 0.6 mile northeast of the courthouse at St. Augustine, St. Johns County, about 125 feet south of the southeast corner of Fort Marion, and about 3 feet south of the junction of the north end of the sea wall with the retaining wall of the fort, on the top of the granite slab used as a coping of the sea wall. A chiseled square within a chiseled triangle. (2.134 meters or 7.001 feet.)

Tidal 9.—At St. Augustine, St. Johns County, about 325 feet north of Capo's wharf at the foot of Hypollita Street, about 200 feet southeast of the southeast corner of Fort Marion reservation, opposite a small hotel, in the top of a granite slab forming the coping of the sea wall. A standard disk, stamped "9." (2.056 meters or 6.745 feet.)

Tidal 8.—At St. Augustine, St. Johns County, on the north side of Hypollita Street, between Charlotte and St. George Streets, on the southeast side of a large iron standpipe, in the upper horizontal surface of the concrete foundation, about 8 inches below the surface of the ground. A standard disk, stamped "8." (1.936 meters or 6.352 feet.)

Tidal 10.—Destroyed prior to 1932.

Tidal 11.—Destroyed prior to 1932.

ST. AUGUSTINE.—At St. Augustine, St. Johns County, at the southeast wing of the city building, in the face of the wall, 2 feet east of the southwest corner, and 3 feet higher than the ground. A standard disk, stamped "ST. AUGUSTINE 1932" and set vertically. (2.905 meters or 9.531 feet.)

For additional bench marks in the vicinity of St. Augustine, see pages 11 and 12.

LINE 10, NEW SMYRNA TO TAMPA, FLA.

[First-order leveling]

This line follows the Florida East Coast Railway from New Smyrna to Orange City Junction and the Atlantic Coast Line Railroad from Orange City Junction, through Orlando, Kissimmee, Haines City, Lakeland, and Plant City, to Tampa. The field work

was done, during January and February 1933, by a party in charge of W. R. Tucker, aid.

For additional bench marks in the vicinity of New Smyrna, see page 75.

NEW SMYRNA.—At New Smyrna, Volusia County, in central parkway along Lytle Avenue, near its intersection with Palmetto Street, 96 feet east of the east curb line of Palmetto Street, 31 feet north of the south curb line of Lytle Avenue, and 12 feet north of the south curb of central parkway. A standard disk, stamped "NEW SMYRNA 1932" and set in the top of a concrete post. (2.783 meters or 9.131 feet.)

K 15.—About 3.0 miles west along the Florida East Coast Railway from the passenger station at New Smyrna, Volusia County, about 300 feet east of the station at Glencoe, about 65 feet northwest of milepost 3, at a dirt-road crossing, 29 feet east of the center line of the road, 27.7 feet north of the north rail, and 12 feet west of a pole. A standard disk, stamped "K 15 1933" and set in the top of a concrete post projecting about 5 inches above ground. (8.978 meters or 22.894 feet.)

L 15.—About 5.0 miles west along the Florida East Coast Railway from the passenger station at New Smyrna, Volusia County, about 240 feet east of milepost 5, about 120 feet west of a dirt-road crossing, 32.5 feet north of the north rail, and 13 feet northeast of a pole. A standard disk, stamped "L 15 1933" and set in the top of a concrete post projecting about 8 inches above ground. (8.753 meters or 28.717 feet.)

M 15.—About 8.1 miles west along the Florida East Coast Railway from the passenger station at New Smyrna, Volusia County, about 40 feet east of the east end of the station at Samsula, about 75 feet west of a switch stand for a siding, about 70 feet northwest of the post office, about 30 feet west of the center line of State Highway 57, and 11.2 feet south of the south rail. A standard disk, stamped "M 15 1933" and set in the top of a concrete post projecting about 7 inches above ground. (8.164 meters or 26.785 feet.)

N 15.—About 9.8 miles west along the Florida East Coast Railway from the passenger station at New Smyrna, Volusia County, 38 feet east of the east end of the station platform at Indian Springs, at a dirt-road crossing, 15 feet east of the center line of the road, about 11 feet southwest of a switch point, and 10.0 feet south of the south rail. A standard disk, stamped "N 15 1933" and set in the top of a concrete post projecting about 7 inches above ground. (12.182 meters or 39.967 feet.)

P 15.—About 11 miles west along the Florida East Coast Railway from the passenger station and junction at New Smyrna, Volusia County, about 1 mile west of Indian Springs, near milepost 11, at a dirt-road crossing, 36.6 feet north of the north rail, 15 feet east of the center line of the road, and 11 feet northeast of a crossing sign. A standard disk, stamped "P 15 1933" and set in the top of a concrete post projecting about 6 inches above ground. (14.137 meters or 46.381 feet.)

Q 15.—About 5.2 miles east along the Florida East Coast Railway from the passenger station at Lake Helen, Volusia County, 37 feet northeast of the northeast pier of the station at Rogers, 18.9 feet north of the north rail, 12 feet west of the center line of a dirt road, 10 feet southeast of a crossing-warning sign, and 6 feet southwest of a pole. A standard disk, stamped "Q 15 1933" and set in the top of a concrete post projecting about 6 inches above ground. (12.286 meters or 40.308 feet.)

R 15.—About 1.9 miles east along the Florida East Coast Railway from the station at Lake Helen, Volusia County, about $\frac{1}{4}$ mile east of milepost 19, about 465 feet west of the west point of tangency of a curve, about 150 feet east of a slight cut in white sand, near the crest of a slight grade, 67 feet south of a pole, 34.0 feet south of the south rail, and 27 feet north of a wire fence. A standard disk, stamped "R 15 1933" and set in the top of a concrete post projecting about 7 inches above ground. (14.863 meters or 48.763 feet.)

S 15.—At Lake Helen, Volusia County, about 108 feet west of the west end of the Florida East Coast Railway station, about 445 feet east of the east end of the Lake Helen municipal plant, about 130 feet south of the center line of a road south of a park, and 12.3 feet north of the north rail of the main track. A standard disk, stamped "S 15 1933" and set in the top of a concrete post projecting about 4 inches above ground. (17.319 meters or 56.821 feet.)

T 15.—About 2.1 miles west along the Florida East Coast Railway from the passenger station at **Lake Helen**, Volusia County, about $\frac{1}{8}$ mile east of milepost 23, on the bank of a small cut near the east end of a fill, near the east point of curvature of a curve, near a dirt-road crossing, 60 feet southeast of a crossing-warning sign, 37 feet east of the center line of the dirt road, and 19.8 feet southeast of the southeast rail. A standard disk, stamped "T 15 1933" and set in the top of a concrete post projecting about 6 inches above ground. (18.888 meters or 61.968 feet.)

U 15.—About 1.3 miles east along the Florida East Coast Railway from the passenger station at **Orange City**, Volusia County, about 17 feet north of milepost 24, at the east end of a cut, at a dirt-road crossing, 47 feet southwest of the corner of a fence around a citrus grove, 23.2 feet northwest of the northwest rail, 19 feet south of the center line of the road, and 6 feet south of a crossing-warning sign. A standard disk, stamped "U 15 1933" and set in the top of a concrete post projecting about 6 inches above ground. (11.730 meters or 38.484 feet.)

V 15.—At **Orange City**, Volusia County, about 190 feet east of the east end of the Florida East Coast Railway station, in a parkway along the railroad and **Graves Avenue**, near their intersection with **Volusia Avenue**, about 80 feet south of the entrance to the **Orange City Restaurant**, 25 feet from the east curb of **Volusia Avenue**, and 7.1 feet north of the north rail. A standard disk, stamped "V 15 1933" and set in the top of a concrete post projecting about 3 inches above ground. (10.603 meters or 34.787 feet.)

W 15.—About 0.4 mile east along the Florida East Coast Railway from **Orange City Junction**, Volusia County, about 594 feet east of milepost 27, at the west end of a cut, at an old dirt-road crossing, 75 feet west of a pole, 28 feet southeast of a crossing-warning sign, and 17.8 feet north of the north rail. A standard disk, stamped "W 15 1933" and set in the top of a concrete post projecting about 7 inches above ground. (14.153 meters or 46.434 feet.)

X 15.—At **Orange City Junction**, Volusia County, about 51 feet south of the south end of the Florida East Coast Railway and the Atlantic Coast Line Railroad station, 18.0 feet east of the east rail of the Atlantic Coast Line Railroad north-bound main track, and 17.0 feet west of the west rail of the Florida East Coast Railway main track. A standard disk, stamped "X 15 1933" and set in the top of a concrete post projecting about 1 inch above ground. (12.850 meters or 42.159 feet.)

Y 15.—About 0.5 mile south along the Atlantic Coast Line Railroad from the station at **Orange City Junction**, Volusia County, about 1,300 feet north of the block signal and switch from the third track to the double track, 32.0 feet east of the east rail of the north-bound main track, and 16 feet southeast of a pole. A standard disk, stamped "Y 15 1933" and set in the top of a concrete post projecting about 4 inches above ground. (14.786 meters or 48.510 feet.)

Z 15.—About 3.0 miles north along the Atlantic Coast Line Railroad from the station at **Benson Junction**, Volusia County, about 800 feet south of milepost J 115, about 450 feet south of a block signal, 32.5 feet east of the east rail of the north-bound main track, 13 feet west of a wire fence along the right-of-way, and 10 feet northeast of pole 3. A standard disk, stamped "Z 15 1933" and set in the top of a concrete post projecting about 6 inches above ground. (8.975 meters or 29.445 feet.)

A 16.—About 0.5 mile north along the Atlantic Coast Line Railroad from the station at **Benson Junction**, Volusia County, about 0.3 mile north of milepost J 118, about 4 poles north of a switch from the drill track to the yard tracks, about 780 feet south of the point of curvature of a curve, 34.1 feet east of the east rail of the north-bound main track, 19.1 feet east of the east rail of the drill track, and about 6 feet northeast of pole 4. A standard disk, stamped "A 16 1933" and set in the top of a concrete post projecting about 3 inches above ground. (10.225 meters or 33.547 feet.)

B 16.—At **Benson Junction**, Volusia County, about 85 feet north of the north end of the Atlantic Coast Line Railroad station, 15.0 feet east of the east rail of the Atlantic Coast Line Railroad north-bound main track, 10 feet southeast of a switch stand, and 3.0 feet east of the curb of a gravel platform. A standard disk, stamped "B 16 1933" and set in the top of a concrete post projecting about 4 inches above ground. (8.414 meters or 27.605 feet.)

C 16.—About 1.4 miles south along the Atlantic Coast Line Railroad from the station at **Benson Junction**, Volusia County, about 0.4 mile northeast of the bridge over **St. Johns River**, about 1,000 feet northeast of a Diesel electric

plant of the Florida Power & Light Co., about 100 feet east of a gateway to the Florida Power & Light Co. plant, about 40 feet northwest of a crossing-warning sign, 30 feet west of the west rail of the south-bound main track, and 22 feet north of the center line of a road. A standard disk, stamped "C 16 1933" and set in the top of a concrete post. (5.828 meters or 19.121 feet.)

1 (U.S.E.).—About 1.7 miles south along the Atlantic Coast Line Railroad from the station at **Benson Junction**, Volusia County, about 430 feet north of the north abutment of the bridge over St. Johns River, about 34 feet southwest of milepost J 120 S 5, about 58 feet west of the west rail of the south-bound main track, and 45 feet southwest of a bridge block signal, between two palm trees in a swamp. A Corps of Engineers, United States Army, standard disk, stamped "U.S.B.M. EL. 4.8" and set in the top of a concrete post about 4 inches under the water. (1.354 meters or 4.442 feet.)

NOTE.—On account of its location, this bench mark is probably unstable, and should not be used to control important leveling unless checked against additional bench marks.

2 (U.S.E.).—In Volusia County, about 4.3 miles north along the Atlantic Coast Line Railroad from the passenger station at **Sanford**, Seminole County, at the south end of the bridge over St. Johns River, on the top of the east side of the iron caisson of the east pier. A lightly chiseled cross. (2.410 meters or 7.907 feet.)

3 (U.S.E.).—In Volusia County, about 4.3 miles north along the Atlantic Coast Line Railroad from the passenger station at **Sanford**, Seminole County, at the south end of the bridge over St. Johns River, on the top of the west side of the iron caisson of the west pier. A lightly chiseled cross. (2.393 meters or 7.851 feet.)

D 16.—About 3.6 miles northwest along the Atlantic Coast Line Railroad from the passenger station at **Sanford**, Seminole County, about 60 feet south of the southeast corner of the station at **Lake Monroe**, about 80 feet west of the center of a highway crossing, and 31.0 feet southwest of the south rail of the south-bound main track. A standard disk, stamped "D 16 1933" and set in the top of a concrete post projecting about 4 inches above ground. (3.479 meters or 11.414 feet.)

E 16.—About 2.3 miles northwest along the Atlantic Coast Line Railroad from the passenger station at **Sanford**, Seminole County, about 370 feet southeast of block signals 7651 and 7652 on the main line, at the yard office at Rands Yard, 89.4 feet south of the south rail of the south-bound main track, in a grass yard of the yard office, 60 feet northwest of the office door facing the track, and 9.0 feet from the near rail of the outside yard track. A standard disk, stamped "E 16 1933" and set in the top of a concrete post projecting about 2 inches above ground. (5.152 meters or 16.903 feet.)

F 16.—About 1.2 miles northwest along the Atlantic Coast Line Railroad from the passenger station at **Sanford**, Seminole County, at the east corner of the railroad intersection with the prolongation of West First Street, about 350 feet southeast of the southeast corner of a large brick manufactory with a tall chimney, about 100 feet west of the Pearson & Co. fertilizer and crate warehouse, 19 feet south of the center line of State Highway 3, 15.3 feet northeast of the northeast rail of the north-bound main track, and 7 feet west of pole 3. A standard disk, stamped "F 16 1933" and set in the top of a concrete post projecting about 3 inches above ground. (8.053 meters or 26.421 feet.)

G 16.—At **Sanford**, Seminole County, near the Atlantic Coast Line Railroad passenger station, at the end of West Ninth Street, near the south end of the train shed, about 78 feet east of the point of curvature of the curve south of the station, 29.9 feet east of the east rail of the north-bound main track, 23 feet southeast of the southernmost column of an umbrella shed, in a garden, 15.9 feet east of a concrete platform, and 15.6 feet south of a concrete walk. A standard disk, stamped "G 16 1933" and set in the top of a concrete post projecting about 2 inches above ground. (8.374 meters or 27.474 feet.)

H 16.—At **Sanford**, Seminole County, near the intersection of French Avenue and West Thirteenth Street, at the city water works, about 120 feet southwest of a 12-inch pipe under the center of a large, high, water tank, 36 feet west of the southwest corner of a brick building of the water plant, in a grass yard, 8.3 feet east of the east edge of the sidewalk on French Avenue, and 6 feet south of the south edge of the sidewalk to the water plant. A standard disk, stamped "H 16 1933" and set in the top of a concrete post. (9.212 meters or 30.223 feet.)

3 (U.S.E.).—At **Sanford**, Seminole County, at the corner of Palmetto Avenue and First Street, at the post office, on the First Street side, 0.4 foot from the east buttress at the entrance, on the top of the third granite step from the sidewalk. A chiseled cross. (4.838 meters or 15.873 feet.)

5 (U.S.E.).—At **Sanford**, Seminole County, at the southwest corner of Palmetto Avenue and Commercial Street, 13 feet west of the Palmetto Avenue curb, 13 feet south of the Commercial Street curb, 16 feet northwest of a lamppost, 9 feet east of a palm gateway, and 9 feet south of a fire hydrant. The top surface of a concrete cylinder set in a terra-cotta pipe, chiseled "B.M." (3.413 meters or 11.197 feet.)

1 (U.S.E.).—At **Sanford**, Seminole County, near the foot of Palmetto Avenue, at the old wharf of the Clyde Steamship Company, 49 feet northwest of a manhole at the intersection of Palmetto Avenue and the boulevard, 42 feet north of the center line of the boulevard, 35 feet east of a tall cabbage palm, and 15 feet east of the edge of grass at the west end of a pier shed, on the top of the concrete coping of the sea wall on the downstream side of the wharf. A chiseled cross. (2.183 meters or 7.162 feet.)

SANFORD.—At **Sanford**, Seminole County, near the north end of Park Avenue, about 300 feet south of Memorial Fountain at the foot of the municipal pier, at the city hall, about 3.9 feet north of the north side of the main entrance, in the bottom concrete step, 2 feet west of the northeast corner, 6 inches from the north edge, and 9 inches above the ground. A standard disk, stamped "SANFORD 1933." (3.272 meters or 10.735 feet.)

J 16.—About 1.4 miles southwest along the Atlantic Coast Line Railroad from the passenger station at **Sanford**, Seminole County, at the Geneva Avenue crossing, about 195 feet south of the point of curvature of the south-bound track of the northernmost curve of a reverse curve, 29.8 feet east of the east rail, 19 feet northeast of a pole, 13 feet north of the corner of a wire fence, and 12.6 feet south of the south curb of Geneva Avenue. A standard disk, stamped "J 16 1933" and set in the top of a concrete post projecting about 4 inches above ground. (14.529 meters or 47.667 feet.)

K 16.—At **Lake Mary**, Seminole County, about 90 feet west of the southwest corner of the Atlantic Coast Line Railroad station, about 312 feet southwest of a pipe under the center of a high water tank marked "Lake Mary," at a shell-road crossing, 31 feet southwest of the center line of the road, 25.6 feet north of the north rail, and 10 feet west of a pole. A standard disk, stamped "K 16 1933" and set in the top of a concrete post. (19.302 meters or 63.327 feet.)

L 16.—About 2.0 miles south along the Atlantic Coast Line Railroad from the station at **Lake Mary**, Seminole County, about 300 feet south of milepost 117 P, about 270 feet north of the point of curvature of a curve, 26.8 feet west of the west rail, 22 feet east of a wire fence along the right-of-way, and 6 feet west of a pole. A standard disk, stamped "L 16 1933" and set in the top of a concrete post projecting about 4 inches above ground. (12.575 meters or 41.256 feet.)

M 16.—About 3.0 miles south along the Atlantic Coast Line Railroad from the station at **Lake Mary**, Seminole County, 4.5 feet north of milepost 116 P, about 84 feet south of the crossing of a brick and macadam road (old main road) to Orlando, 37.9 feet north of a pole, in line with a row of poles, and 21.5 feet east of the east rail of the main track. A standard disk, stamped "M 16 1933" and set in the top of a concrete post. (17.937 meters or 58.848 feet.)

N 16.—About 4.6 miles south along the Atlantic Coast Line Railroad from the station at **Lake Mary**, Seminole County, at **Longwood**, about 435 feet from the northeast corner of the station platform, about 332 feet north of block signal 7775, 46.8 feet from the center of a road crossing, 32.2 feet north of a pole, and 28.6 feet east of the east rail of the main track. A standard disk, stamped "N 16 1933" and set in the top of a concrete post. (23.620 meters or 77.493 feet.)

P 16.—At **Altamonte Springs**, Seminole County, about 43.3 feet west of the southwest corner of the Atlantic Coast Line Railroad station, 27.2 feet west of the west rail of the main track, and 13.2 feet north of a pole, in line with a row of poles. A standard disk, stamped "P 16 1933" and set in the top of a concrete post. (29.923 meters or 98.172 feet.)

Q 16.—At **Maitland**, Orange County, about 79 feet north of the northwest corner of the Atlantic Coast Line Railroad station, about 117 feet south of block signal 7830, at the Horatio Avenue crossing, 25.7 feet east of the east rail of

the main track, and 20.0 feet north of the north curb of Horatio Avenue. A standard disk, stamped "Q 16 1933" and set in the top of a concrete post. (27.710 meters or 90.912 feet.)

R 16.—About 1.2 miles north along the Atlantic Coast Line Railroad from the station at **Winter Park**, Orange County, about 1,775 feet south of milepost 108 P, at the junction of a brick road called Orlando Short Cut, 36.5 feet south of the crossing of the Winter Park-Sanford brick road, 21.9 feet north of the north curb of a brick road, and 14.9 feet east of the east rail of the main track. A standard disk, stamped "R 16 1933" and set in the top of a concrete post. (26.830 meters or 88.025 feet.)

S 16.—At **Winter Park**, Orange County, about 40.0 feet east of the northeast corner of the Atlantic Coast Line Railroad station, in line with the north wall of the station, 95.9 feet west of the west curb of East Park Avenue, and 4.9 feet east of the east curb of the station driveway. A standard disk, stamped "S 16 1933" and set in the top of a concrete post projecting about 2 inches above ground. (28.313 meters or 92.890 feet.)

T 16.—About 1.8 miles south along the Atlantic Coast Line Railroad from the station at **Winter Park**, Orange County, about 2,409 feet south of milepost 105 P, at the Wilkinson Avenue crossing, 58 feet north of block signal 7875, 13.5 feet east of the east rail of the east main track, and 6.7 feet north of the north edge of the south sidewalk on Wilkinson Avenue. A standard disk, stamped "T 16 1933" and set in the top of a concrete post projecting about 4 inches above ground. (29.098 meters or 95.466 feet.)

Orlando, top of west rail at the intersection of the Atlantic Coast Line Railroad and the Seaboard Air Line Railway. (109.7 feet.)

103.37 (Orange County).—At **Orlando**, Orange County, at the county courthouse, at the southwest corner of the building, in the top of the coping of the steps leading to the basement. A brass plug, marked "103.37." (33.397 meters or 109.570 feet.)

ORLANDO.—At **Orlando**, Orange County, at the city hall grounds, 64.6 feet northeast of the northeast corner of the city hall, 18.7 feet west of the west curb of South Orange Street, and 18.4 feet south of the south curb of West Jackson Street. A standard disk, stamped "ORLANDO 1932" and set in the top of a concrete post projecting about 2 inches above ground. (32.231 meters or 105.745 feet.)

U 16.—At **Orlando**, Orange County, about 585 feet north of the north end of the Atlantic Coast Line Railroad station, 72.3 feet south of the center of the West Columbia Street crossing, 49.4 feet south of block signal 7913, 37.2 feet south of the south rail of the south sidetrack, and 6.8 feet south of the center line of the south sidewalk of West Columbia Street. A standard disk, stamped "U 16 1933" and set in the top of a concrete post projecting about 4 inches above ground. (32.543 meters or 106.768 feet.)

V 16.—At **Orlando**, Orange County, on the Atlantic Coast Line Railroad, about 0.5 mile south of the passenger station, about 137 feet north of block signal 7919, 86.9 feet east of the east rail of the main track, 30.0 feet south of the center line of Kaley Avenue, in the front yard of the Orange County Road Department building, 13.9 feet from the northeast corner of the building, and 8.5 feet north of the north side. A standard disk, stamped "V 16 1933" and set in the top of a concrete post projecting about 3 inches above ground. (33.690 meters or 110.531 feet.)

W 16.—About 4.0 miles south along the Atlantic Coast Line Railroad from the passenger station at **Orlando**, Orange County, 90.5 feet north of the north side of the station at **Pine Castle**, 70.5 feet south of milepost 97 P, and 18.9 feet east of the east rail of the main track. A standard disk, stamped "W 16 1933" and set in the top of a concrete post projecting about 3 inches above ground. (31.297 meters or 102.680 feet.)

X 16.—About 6.6 miles south along the Atlantic Coast Line Railroad from the passenger station at **Orlando**, Orange County, about 1,580 feet north of milepost 94 P, 39.0 feet north of the Tandstreet Road crossing, 37 feet north of the center line of Tandstreet Road, and 22.1 feet west of the west rail of the main track. A standard disk, stamped "X 16 1933" and set in the top of a concrete post projecting about 4 inches above ground. (30.098 meters or 98.747 feet.)

Y 16.—About 9.2 miles southwest along the Atlantic Coast Line Railroad from the passenger station at **Orlando**, Orange County, about 1,131 feet southwest of milepost 92 P, at the crossing of State Highway 2, about 80 feet east of the east corner of Zeh's Service Station, 40 feet south of the center line of

the highway, 30 feet west of the west rail, 30 feet northeast of pole 4, and 18 feet southwest of the south end of a corrugated-iron culvert carrying the west railroad ditch under the highway. A standard disk, stamped "Y 16 1933" and set in the top of a concrete post projecting about 5 inches above ground. (26.456 meters or 86.798 feet.)

Z 16.—In Orange County, about 5.3 miles northeast along the Atlantic Coast Line Railroad from the passenger station at Kissimmee, Osceola County, about 0.4 mile southeast of State Highway 2, about 702 feet northeast of the southwest point of curvature of a curve, 45 feet northwest of the west rail, 3 feet east of pole 9, and 2.8 feet southeast of the fence along the railroad property line. A standard disk, stamped "Z 16 1933" and set in the top of a concrete post projecting about 5 inches above ground. (27.691 meters or 90.850 feet.)

A 17.—In Orange County, about 2.8 miles north along the Atlantic Coast Line Railroad from the passenger station at Kissimmee, Osceola County, about 858 feet south of milepost 87 P, about 702 feet north of a dirt-road crossing, near a group of small houses near the crest of a slight grade, 51 feet east of a large, spreading, live-oak tree, 37 feet west of the west rail, and 5 feet east of pole 6545. A standard disk, stamped "A 17 1933" and set in the top of a concrete post projecting about 3 inches above ground. (26.683 meters or 87.542 feet.)

B 17.—At Kissimmee, Osceola County, in the parkway south of the Atlantic Coast Line Railroad passenger station and the Dakin Avenue crossing, about 90 feet southwest of the south end of a concrete platform and umbrella shed, 48 feet northeast of the east corner of the Arcade Hotel and Grill, 39 feet southwest of the center line of Dakin Avenue, 18 feet northeast of the east curb of a street beside the parkway, 16 feet northwest of the northwest rail of the main track, and 4 feet inside of the east corner of a garden. A standard disk, stamped "B 17 1933" and set in the top of a concrete post projecting about 2 inches above ground. (19.910 meters or 65.321 feet.)

C 17.—At Kissimmee, Osceola County, at the south corner of the intersection of Possoll Avenue and Church Street, in the front wall of the post office, 7 inches from the northeast corner, in the second course of concrete blocks, 20 inches above the ground. A standard disk, stamped "C 17 1933" and set vertically. (20.864 meters or 68.451 feet.)

KISSIMMEE.—At Kissimmee, Osceola County, at the intersection of Possoll Avenue and Broadway, in the lawn of the municipal building, 81 feet north of the east door in the north front of the building, 54 feet north of the north curb of a curved brick sidewalk in front of the building, 24 feet southeast of the east edge of the east sidewalk along Broadway, 24 feet south of a palm tree, and 21 feet southwest of the south edge of the south sidewalk along Possoll Avenue. A standard disk, stamped "KISSIMMEE 1932" and set in the top of a concrete post projecting about 7 inches above ground. (18.832 meters or 61.785 feet.)

D 17.—About 2.4 miles southwest along the Atlantic Coast Line Railroad from the passenger station at Kissimmee, Osceola County, about 0.4 mile west of milepost 82 P, about 332 feet southwest of the main entrance to an amusement building called "Gilbert Park", about 78 feet northeast of the center line of State Highway 2, at a crossing, 24 feet southwest of pole 6, 18.4 feet north of the north rail, and 18 feet from the north end of a corrugated-iron culvert carrying a road ditch under the track. A standard disk, stamped "D 17 1933" and set in the top of a concrete post projecting about 4 inches above ground. (20.531 meters or 67.359 feet.)

E 17.—About 4.2 miles southwest along the Atlantic Coast Line Railroad from the passenger station at Kissimmee, Osceola County, about 270 feet northeast of the point of curvature of a curve south of the station at Campbell, about 90 feet southwest of the southwest corner of the station, 28 feet east of the east switch point to a second track, 24 feet southeast of the southeast rail of the main track, and 24 feet northwest of the northwest rail of a side-track east of the station. A standard disk, stamped "E 17 1933" and set in the top of a concrete post projecting about 3 inches above ground. (23.332 meters or 76.548 feet.)

F 17.—About 7.1 miles west along the Atlantic Coast Line Railroad from the passenger station at Kissimmee, Osceola County, at a settlement called "Interocean City", about 780 feet northwest of milepost 77 P, 93 feet northeast of the center line of State Highway 2, 42 feet southeast of the center of a dirt-road crossing, 30.0 feet southwest of the southwest rail, and 2 feet north

of a wire fence. A standard disk, stamped "F 17 1933" and set in the top of a concrete post projecting about 5 inches above ground. (21.507 meters or 70.561 feet.)

G 17.—In Osceola County, about $1\frac{1}{2}$ miles northeast along the Atlantic Coast Line Railroad from the station at Loughman, Polk County, about 719 feet northeast of milepost 74 P, at a dirt-road crossing, near the middle of a long curve, 32.0 feet northwest of the northwest rail, 24 feet southwest of the dirt road, 16 feet southeast of a wire-fence corner, and 16 feet south of a cabbage palm. A standard disk, stamped "G 17 1933" and set in the top of a concrete post projecting about 4 inches above ground. (23.974 meters or 78.655 feet.)

H 17.—At Loughman, Polk County, about 27 feet southwest of the southwest end of the Atlantic Coast Line Railroad station, about 292 feet southwest of the State Highway 2 crossing, 24.0 feet northwest of the northwest rail of the main track, and 4 feet southeast of pole 7. A standard disk, stamped "H 17 1933" and set in the top of a concrete post projecting about 5 inches above ground. (30.495 meters or 100.049 feet.)

J 17.—About $2\frac{1}{4}$ miles southwest along the Atlantic Coast Line Railroad from the station at Loughman, Polk County, at a dirt-road crossing, 27 feet southeast of the southeast rail, 21 feet southwest of the center line of a dirt road, 21 feet west of the south post of a wooden gate in a wire fence, and 3 feet southwest of a pole. A standard disk, stamped "J 17 1933" and set in the top of a concrete post projecting about 6 inches above ground. (33.861 meters or 111.092 feet.)

K 17.—About 2.0 miles northeast along the Atlantic Coast Line Railroad from the station at Davenport, Polk County, at the north end of a cut, about 156 feet northeast of the point of curvature of a curve, 60 feet west of the center of a secondary-road crossing, 43 feet northwest of the northwest rail, 18 feet south of the center line of the road, and 5 feet southeast of a wire-fence corner. A standard disk, stamped "K 17 1933" and set in the top of a concrete post projecting about 4 inches above ground. (38.765 meters or 127.182 feet.)

20 (F.S.R.D.).—About 2 miles north along the highway from the Atlantic Coast Line Railroad station at Davenport, Polk County, on the new State-Federal road project (beginning at Haines City at the intersection of Hinson and Railroad Avenues), on the east side of a small lake, at station 296+00, 70 feet from the center line of the highway, in the root of a 20-inch pine tree. The top of a railroad spike. (35.625 meters or 116.880 feet.)

15 (F.S.R.D.).—About 0.5 mile north of the Atlantic Coast Line Railroad station at Davenport, Polk County, at the southeast corner of the packing and canning plant of the Holy Hill Fruit Products Co., at the edge of the loading platform, on the south end of an 8-inch channel iron. The upper surface of the channel beam. (39.903 meters or 130.915 feet.)

L 17.—At Davenport, Polk County, about 2 feet east of the east edge of the sidewalk at southwest end of the Atlantic Coast Line Railroad station, 28 feet south of the southwest corner of a raised concrete platform and the covered part of the station, and 11 feet north of the north edge of the sidewalk on the north side of Bay Street. A standard disk, stamped "L 17 1933" and set in the top of a concrete post projecting about 2 inches above ground. (41.562 meters or 136.358 feet.)

13 (F.S.R.D.).—About $\frac{1}{4}$ mile southwest of the Atlantic Coast Line Railroad station at Davenport, Polk County, on State Highway 2, at a side-street intersection, about 115 feet southeast of the east rail, 62 feet southeast of the west curb along the highway, and about 125 feet north of a frame house, on the top of a fire hydrant. The tip of an arrow. (44.405 meters or 145.685 feet.)

M 17.—About 2.0 miles north along the Atlantic Coast Line Railroad from the passenger station at Haines City, Polk County, at the crossing of a dirt road leading to Bate's Grove, 69 feet north of a pole, 36.0 feet west of the west rail, 18 feet south of the center line of the road, 13 feet east of a wire-fence corner, and 1 foot south of the fence. A standard disk, stamped "M 17 1933" and set in the top of a concrete post projecting about 4 inches above ground. (40.975 meters or 134.432 feet.)

N 17.—At Haines City, Polk County, about 0.5 mile northeast of the Atlantic Coast Line Railroad passenger station, at the northeast arm of the wye junction of a branch to Sebring, about 320 feet north of the point of a switch

at the branch-line junction, about 120 feet south of the south end of the platform of a car-icing plant, about 90 feet southwest of the southwest corner of a brick and frame packing house, and 39.0 feet southeast of the east rail of the main track. A standard disk, stamped "N 17 1933" and set in the top of a concrete post projecting about 5 inches above ground. (52.279 meters or 171.519 feet.)

P 17.—At **Haines City**, Polk County, at the Atlantic Coast Line Railroad passenger station, between the first two hibiscus bushes in the park south of the station and east of the track, 21 feet south of the southwest corner of the station, 16 feet east of the east rail of the station track, and 4 feet west of a chain fence and driveway, near the letter "H" in a floral writing of "Haines City, Florida." A standard disk, stamped "P 17 1933" and set in the top of a concrete post projecting about 3 inches above ground. (49.064 meters or 160.971 feet.)

HAINES CITY.—At **Haines City**, Polk County, on Hinson Avenue, between Fifth and Sixth Streets, at the city hall, in the northwest corner of the front yard, 87 feet southeast of the intersection of Hinson Avenue and Fifth Street, 60 feet east of the east curb of Fifth Street, 30 feet north of the northwest corner of the building, and 6 feet south of the south edge of the sidewalk on the south side of Hinson Avenue. A standard disk, stamped "HAINES CITY 1932" and set in the top of a concrete post projecting about 3 inches above ground. (42.760 meters or 140.288 feet.)

1 (F.S.R.D.).—At **Haines City**, Polk County, at the northwest corner of the intersection of Hinson and Railroad Avenues, 4 feet west of the west curb of Railroad Avenue, on the top of a fire hydrant. The tip of an arrow. (52.052 meters or 170.774 feet.)

Q 17.—About 2.6 miles west along the Atlantic Coast Line Railroad from the passenger station at **Haines City**, Polk County, about 245 feet east of milepost 60 P, about 235 feet west of the east end of a cut, near the crest of a minor grade, 88 feet north of the center line of an asphalt road, 60 feet east of a pole, in line with a row of poles, and 33.0 feet south of the south rail. A standard disk, stamped "Q 17 1933" and set in the top of a concrete post projecting about 5 inches above ground. (43.841 meters or 143.835 feet.)

R 17.—About 2.3 miles east along the Atlantic Coast Line Railroad from the station at **Lake Alfred**, Polk County, about 1,404 feet east of milepost 58 P, at the bottom of a vertical curve in the track, 90 feet east of the center of an asphalt-road crossing, 57 feet east of the center line of the highway, 31.0 feet south of the south rail, and 8 feet west of a pole. A standard disk, stamped "R 17 1933" and set in the top of a concrete post projecting about 4 inches above ground. (41.427 meters or 135.915 feet.)

S 17.—At **Lake Alfred**, Polk County, in the Atlantic Coast Line Railroad station park, about 120 feet southwest of the west corner of the station, about 96 feet southwest of milepost 56 P, 57 feet southwest of the center line of a street crossing the track, 14.0 feet south of the south rail of the main track, and 3 feet south of a hedge surrounding a garden. A standard disk, stamped "S 17 1933" and set in the top of a concrete post projecting about 3 inches above ground. (51.612 meters or 169.330 feet.)

T 17.—About 1.6 miles west along the Atlantic Coast Line Railroad from the station at **Lake Alfred**, Polk County, 6 feet west of the southwest corner piling of the station platform at **Lynchburg**, 93 feet northwest of the center of an asphalt-road crossing, 90 feet south of the center of an old main road between Lake Alfred and Auburndale, and 21.8 feet north of the north rail of the main track. A standard disk, stamped "T 17 1933" and set in the top of a concrete post projecting about 5 inches above ground. (48.048 meters or 157.637 feet.)

U 17.—At **Auburndale**, Polk County, at the Atlantic Coast Line Railroad station, in the southwest end of a bed of hibiscus bushes, about 350 feet east of the Tampa Street crossing, 45 feet southeast of the south corner of the raised station platform, 18.0 feet southeast of the south rail of the main track, and 2 feet inside a wooden fence of a garden. A standard disk, stamped "U 17 1933" and set in the top of a concrete post projecting about 2 inches above ground. (51.426 meters or 168.720 feet.)

V 17.—At **Auburndale**, Polk County, on the Atlantic Coast Line Railroad and the Seaboard Air Line Railway, about 110 feet east of milepost 51 P, at a crossing called "Nu Cabin", 90 feet south of the center of the railroad crossing, 78.0 feet southwest of the south rail of the Seaboard Air Line Railway, and 56.6 feet southeast of the east rail of the Atlantic Coast Line Railroad. A

standard disk, stamped "V 17 1933" and set in the top of a concrete post. (46.488 meters or 152.519 feet.)

W 17.—About 1.4 miles southwest along the Atlantic Coast Line Railroad from the station at **Auburndale**, Polk County, about 1,365 feet east of milepost 50 P, about 665 feet east of a block signal, 28.2 feet south of the south rail, 19 feet north of a wire fence along the property line, and 7 feet east of a pole, in line with the poles. A standard disk, stamped "W 17 1933" and set in the top of a concrete post projecting about 4 inches above ground. (44.297 meters or 145.331 feet.)

X 17.—About 4.5 miles southwest along the Atlantic Coast Line Railroad from the station at **Auburndale**, Polk County, about 800 feet east of milepost 47 P, at an old asphalt-road crossing, 36 feet west of the center line of the road, 19.0 feet south of the south rail, and 4½ feet west of a wire fence. A standard disk, stamped "X 17 1933" and set in the top of a concrete post projecting about 4 inches above ground. (34.981 meters or 114.767 feet.)

Y 17.—About 2.8 miles east along the Atlantic Coast Line Railroad from the passenger station at **Lakeland**, Polk County, about 160 feet west of milepost 44 P, across the track and road from the storage yard of a construction company, at a secondary asphalt-road crossing, 43.6 feet south of the south rail, 24.0 feet west of the center line of the road, and 4 feet north of a wire fence along the railroad property line. A standard disk, stamped "Y 17 1933" and set in the top of a concrete post projecting about 4 inches above ground. (44.250 meters or 145.177 feet.)

Z 17.—At **Lakeland**, Polk County, about 0.6 mile east of the Atlantic Coast Line Railroad station, about 884 feet west of milepost 42 P, at the North Ingram Avenue crossing, 43.7 feet south of the south rail of the main track, 17.6 feet west of the west curb of North Ingram Avenue, and about 4 feet north of a wire fence along the railroad property line. A standard disk, stamped "Z 17 1933" and set in the top of a concrete post projecting about 4 inches above ground. (52.939 meters or 173.684 feet.)

LAKELAND.—At **Lakeland**, Polk County, 48.0 feet south of the southeast corner of the Atlantic Coast Line Railroad station, in the northeast corner of Munn Park, 15.0 feet west of the west curb of North Kentucky Avenue, and 9.7 feet south of the south curb of East Cedar Street. A standard disk, stamped "LAKELAND 1932" and set in the top of a concrete post projecting about 4 inches above ground. (64.042 meters or 210.111 feet.)

A 18.—At **Lakeland**, Polk County, on the Atlantic Coast Line Railroad, about 0.3 mile west of the passenger station, near the Dakota Avenue crossing, 68 feet west of the center line of Dakota Avenue, 36.2 feet south of the south rail of the main track, 34 feet east of the east side of a section house, and 11.9 feet north of the north curb of West Main Street, between a palm tree and a hibiscus bush in a grass plot east of the section house. A standard disk, stamped "A 18 1933" and set in the top of a concrete post projecting about 3 inches above ground. (64.240 meters or 210.761 feet.)

B 18.—About 4 miles west along the Atlantic Coast Line Railroad from the passenger station at **Lakeland**, Polk County, about 156 feet west of the west end of the station at **Winston**, in line with a row of palm trees along the cinder platform, 16.1 feet south of the south rail of the main track, 15.6 feet north of the north rail of a sidetrack south of the station, and 4.8 feet east of a palm tree. A standard disk, stamped "B 18 1933" and set in the top of a concrete post projecting about 3 inches above ground. (41.103 meters or 134.852 feet.)

C 18.—About 3.4 miles east along the Atlantic Coast Line Railroad from Union Station at **Plant City**, Hillsborough County, about 45 feet west of the west end of the station at **Youmans**, 103 feet south of the center line of State Highway 2, and 14.0 feet north of the north rail of the main track. A standard disk, stamped "C 18 1933" and set in the top of a concrete post projecting about 4 inches above ground. (44.140 meters or 144.816 feet.)

D 18.—About 0.5 mile east along the Atlantic Coast Line Railroad from Union Station at **Plant City**, Hillsborough County, about 780 feet west of an interlocking signal and a switch to a sidetrack, about 130 feet southwest of the southwest corner of the Sinclair Oil Co. storage tanks, at a dirt-road crossing, 28.4 feet south of the south rail of the main track, 28.0 feet west of the center line of the road, and 3 feet northwest of the northeast corner of a wire fence. A standard disk, stamped "D 18 1933" and set in the top of a concrete post projecting about 3 inches above ground. (39.583 meters or 129.865 feet.)

Magnetic Station.—At **Plant City**, Hillsborough County, at the west edge of Gilchrist Park, 3 blocks east of Main Street, 3 blocks north of the Atlantic Coast Line Railroad, about 100 feet north of a road on the south side of the park, and 32 feet northwest of the west end of a footbridge over a gully. The top of a 4- by 4-inch granite block projecting about 8 inches above ground. (37.302 meters or 122.382 feet.)

E 18.—At **Plant City**, Hillsborough County, at the Union Station, at the intersection of the Atlantic Coast Line Railroad and the Seaboard Air Line Railway, 63 feet southwest of the southeast corner of the station, 60.3 feet west of the west rail of the Seaboard Air Line Railway main track, and 23.8 feet south of the south rail of the Atlantic Coast Line Railroad main track. A standard disk, stamped "E 18 1933" and set in the top of a concrete post projecting about 2 inches above ground. (39.904 meters or 130.918 feet.)

PLANT CITY.—At **Plant City**, Hillsborough County, at the east entrance to the city hall, at the south side of the entrance steps, 4.7 feet east of the east end of the coping, and 3.2 feet south of the south edge of the sidewalk. A standard disk, stamped "133.806 PLANT CITY 1932" and set in the top of a concrete post projecting about 3 inches above ground. (40.784 meters or 133.806 feet.)

F 18.—About 0.6 mile southwest along the Atlantic Coast Line Railroad from Union Station at **Plant City**, Hillsborough County, about 625 feet southwest of an interlocking signal, at the crossing of a dirt-street extension, 34 feet northeast of the intersection of the main track and the dirt road, 20.6 feet northwest of the north rail of the main track, and about 6 feet southeast of a crossing-warning sign. A standard disk, stamped "F 18 1933" and set in the top of a concrete post projecting about 4 inches above ground. (37.429 meters or 122.798 feet.)

G 18.—About 4.0 miles southwest along the Atlantic Coast Line Railroad from Union Station at **Plant City**, Hillsborough County, about 1,250 feet west of milepost 27 P, about 90 feet west of the center of the crossing of an asphalt road leading to Turkey Creek, 57 feet southeast of the center line of State Highway 23, 36.9 feet northwest of the north rail, 10 feet south of a wire fence, and 9 feet east of a pole. A standard disk, stamped "G 18 1933" and set in the top of a concrete post projecting about 4 inches above ground. (35.963 meters or 117.989 feet.)

H 18.—At **Dover**, Hillsborough County, in the yard east of the Atlantic Coast Line Railroad station, about 85 feet northeast of the east end of the loading shed adjacent to the station, 38 feet southwest of the center line of a paved road leading south, 12.9 feet southeast of the south rail of the main track, and 6 feet west of a palm tree, in line with a row of palms. A standard disk, stamped "H 18 1933" and set in the top of a concrete post projecting about 3 inches above ground. (31.020 meters or 101.771 feet.)

J 18.—At **Seffner**, Hillsborough County, in the north corner of a flower garden east of the Atlantic Coast Line Railroad station, 38 feet northeast of the east end of the station, 25.2 feet southeast of the south rail of the main track, and 3 feet southeast of the corner of an iron-rail fence. A standard disk, stamped "J 18 1933" and set in the top of a concrete post projecting about 3 inches above ground. (21.765 meters or 71.407 feet.)

K 18.—About 7.4 miles east along the Atlantic Coast Line Railroad from Union Station at **Tampa**, Hillsborough County, about 3¼ miles west of **Seffner**, at a clay-road crossing, about 90 feet southeast of State Highway 23, 33 feet northeast of the center line of a clay road leading south, 25.7 feet north of the north rail, and 9 feet northeast of a wire fence along the railroad property line. A standard disk, stamped "K 18 1933" and set in the top of a concrete post projecting about 4 inches above ground. (11.670 meters or 38.287 feet.)

L 18.—About 3.8 miles east along the Atlantic Coast Line Railroad from Union Station at **Tampa**, Hillsborough County, about ½ mile east of the tower at **Uceta**, about 1,053 feet west of milepost 14 P, across the track from the approximate middle of the freight and coach yard, about 300 feet east of the point of a switch to an industrial siding, 63 feet west of the west end of a concrete factory warehouse, 45.9 feet north of the north rail of the main track, and 1 foot south of a wire-fence corner. A standard disk, stamped "L 18 1933" and set in the top of a concrete post projecting about 4 inches above ground. (7.251 meters or 23.789 feet.)

M 18.—About 3.2 miles east along the Atlantic Coast Line Railroad from Union Station at **Tampa**, Hillsborough County, at **Uceta**, about 860 feet west

of an interlocking signal, about 700 feet east of the junction of the main track of the branch line to Sarasota, about 190 feet east of an interlocking tower at the station, 100.0 feet north of the north rail of the main track of the Sarasota line, 24.0 feet north of the north rail of a sidetrack, and 2 feet west of a pole. A standard disk, stamped "M 18 1933" and set in the top of a concrete post projecting about 4 inches above ground. (8.046 meters or 26.398 feet.)

N 18.—About 2.7 miles east along the Atlantic Coast Line Railroad from Union Station at Tampa, Hillsborough County, about ½ mile west of the tower at Uceta, at Okko Siding, across the tracks from the northeast corner of the plant of the Pitch Pine Products, Inc., at a dirt-road crossing, 44.6 feet north of the north rail of the south-bound main track, 36.0 feet east of the center line of the road, and 2 feet south of a wire fence along the railroad right-of-way. A standard disk, stamped "N 18 1933" and set in the top of a concrete post projecting about 4 inches above ground. (8.424 meters or 27.638 feet.)

P 18.—At Tampa, Hillsborough County, on the Atlantic Coast Line Railroad, about 1.6 miles east of the Union Station, at the crossing of the Seaboard Air Line Railway, 54.3 feet east of the east rail of the main track of the Seaboard Air Line Railway, 27.8 feet south of the south rail of the north-bound main track of the Atlantic Coast Line Railroad, and 10.0 feet southeast of the southeast corner of the interlocking tower TN, near a wooden post at the southeast corner of a small yard around the tower. A standard disk, stamped "P 18 1933" and set in the top of a concrete post projecting about 7 inches above ground. (3.976 meters or 13.045 feet.)

Tampa, top of rail at the intersection of the Atlantic Coast Line Railroad and the Seaboard Air Line Railway. (13.7 feet.)

Q 18.—At Tampa, Hillsborough County, on the Atlantic Coast Line Railroad, at the Thirteenth Street crossing, near the intersection of Thirteenth Street and Fourth Avenue, 56 feet northwest of the center line of Thirteenth Street, 15.6 feet south of the south rail of the north-bound main track, and 12 feet southwest of the southwest corner of the concrete base of block signal 8818. A standard disk, stamped "Q 18 1933" and set in the top of a concrete post projecting about 4 inches above ground. (5.531 meters or 18.146 feet.)

R 18.—At Tampa, Hillsborough County, at the Union Station, about 100 feet west of the head house belonging to the Atlantic Coast Line Railroad, 49.9 feet southeast of the southeast rail of the Atlantic Coast Line Railroad freight line to Port Tampa, 35.2 feet northeast of the center line of Nebraska Avenue, 13.4 feet northwest of the northwest rail of the west track serving the passenger platforms at the station, and 12 feet from the base of a crossing watchman's tower, in a triangular park, about 10 feet from the south vertex. A standard disk, stamped "R 18 1933" and set in the top of a concrete post projecting about 4 inches above ground. (6.563 meters or 21.532 feet.)

For additional bench marks in the vicinity of Tampa, see pages 97-99.

LINE 11, PALATKA TO PORT INGLIS, FLA.

[First-order leveling]

This line follows the Atlantic Coast Line Railroad from Palatka to Satsuma, and roads from Satsuma, through Welaka, Fort Gates Ferry, Norwalk, Lake Kerr, Silver Springs, Dunnellon, and Yankeetown, to Port Inglis. The field work was done, during February and March 1933, by a party in charge of W. R. Tucker, aid.

For additional bench marks in the vicinity of Palatka, see pages 37, 38, 72, and 73.

A 19.—About 1.1 miles south along the main line of the Atlantic Coast Line Railroad from Union Station at Palatka, Putnam County, about 900 feet south of block signal 6988, at the south end of a cut, at the Palatka waterworks (a red brick building with a brick chimney), about 135 feet north of the northeast corner of the building, about 71 feet north of the main valve pipe northeast of the northeast corner of the building, 54 feet north of the center line of a brick street, and 26.5 feet west of the west rail. A standard disk, stamped "A 19 1933" and set in the top of a concrete post projecting about 4 inches above ground. (5.605 meters or 18.389 feet.)

B 19.—About 2.3 miles south along the Atlantic Coast Line Railroad from Union Station at **Palatka**, Putnam County, at **Lundy**, 74 feet east of block signal 7008, at the crossing of an asphalt highway, 45.9 feet southeast of the east rail, 42.6 feet east of the center line of the highway, and 24 feet east of a pole. A standard disk, stamped "B 19 1933" and set in the top of a concrete post projecting about 3 inches above ground. (9.697 meters or 31.814 feet.)

C 19.—About 4.8 miles south along the Atlantic Coast Line Railroad from Union Station at **Palatka**, Putnam County, about 0.3 mile north of a bridge over St. Johns River, about 834 feet north of milepost J-60, in a thick woods, across the track from pole 2900, 67 feet north of a pole, and 45.0 feet west of the west rail. A standard disk, stamped "C 19 1933" and set in the top of a concrete post projecting about 3 inches above ground. (3.986 meters or 13.077 feet.)

D 19.—About 3.6 miles west along the Palatka-Silver Lake highway from the State Highway 14 underpass of the Atlantic Coast Line Railroad at **Palatka**, Putnam County, at a dirt crossroad, 27 feet north of the center line of the highway, and 21 feet east of the center line of the dirt road, in a wire-fence corner. A standard disk, stamped "D 19 1933" and set in the top of a concrete post projecting about 2 inches above ground. (16.081 meters or 52.759 feet.)

E 19.—About 5.2 miles southwest along the Palatka-Silver Lake highway from the State Highway 14 underpass of the Atlantic Coast Line Railroad at **Palatka**, Putnam County, at the junction of an unimproved road south to Rodman and a paved road north to State Highway 14, about 100 feet southwest of the southwest corner of a one-story bungalow, 50 feet northwest of the road intersection, 36 feet west of the center line of the paved road to the north, and 7 feet southwest of a pole. A standard disk, stamped "E 19 1933" and set in the top of a concrete post projecting about 3 inches above ground. (20.045 meters or 65.764 feet.)

F 19.—About 5.3 miles south along the Atlantic Coast Line Railroad from the Union Station at **Palatka**, Putnam County, about 350 feet northwest of the north abutment of the bridge over St. Johns River, 63 feet southwest of the west rail, in the top of the concrete base of a block signal, 8 inches from the east face, 6 inches from the base of the steel signal box, and 2 feet above the ground. A standard disk, stamped "F 19 1933." (3.408 meters or 11.181 feet.)

G 19.—About 5.6 miles south along the Atlantic Coast Line Railroad from the Union Station at **Palatka**, Putnam County, on the south side of the bridge over St. Johns River, about 700 feet southeast of the center of the draw span, 22 feet south of the south abutment, 6.5 feet east of the east rail, in the top of the concrete base of a block signal, 11 inches south of the north edge, 9 inches east of the west edge, and 2 feet above the ground. A standard disk, stamped "G 19 1933." (3.572 meters or 11.719 feet.)

H 19.—About 1½ miles north along the Atlantic Coast Line Railroad from the station at **Satsuma**, Putnam County, 30 feet south of milepost J-62, at a dirt-road crossing, 47.1 feet southwest of the west rail, 35 feet west of the south opening of a clay-pipe culvert carrying the west railroad ditch under the road, and 24 feet west of the center line of the road. A standard disk, stamped "H 19 1933" and set in the top of a concrete post projecting about 1 inch above ground. (4.483 meters or 14.708 feet.)

P.T.S. 15 (U.S.G.S.).—At **Satsuma**, Putnam County, about 112 feet northeast of the northeast corner of the Atlantic Coast Line Railroad station, about 100 feet east of the east rail of the main track, 61 feet east of the east rail of a sidetrack, 30 feet north of a side road, and 4.5 feet north of a vertical rail marking the railroad right-of-way. A United States Geological Survey standard disk, stamped "PRIM. TRAV. STA. 15 1911 78" and set in the top of a concrete post. (23.859 meters or 78.277 feet.)

J 19.—At **Satsuma**, Putnam County, about 0.2 mile south along the Atlantic Coast Line Railroad from the station, near the crossing of a paved road to Welaka, 93.9 feet southwest of the west rail, 72 feet northwest of the center line of the road to Welaka, and 15 feet north of a vertical rail marking the railroad property line. A standard disk, stamped "J 19 1933" and set in the top of a concrete post projecting about 1 inch above ground. (23.739 meters or 77.884 feet.)

K 19.—About 0.5 mile west along the Welaka road from its junction with U.S. Highway 17 at **Satsuma**, Putnam County, at a dirt-road crossing, 47 feet northeast of the intersection, 35.0 feet north of the center line of the Welaka road, and 8 feet northeast of a pole. A standard disk, stamped "K 19 1933"

and set in the top of a concrete post projecting about 1 inch above ground. (27.734 meters or 90.991 feet.)

L 19.—About 3.0 miles west along the Welaka road from its junction with United States Highway 17 at **Satsuma**, Putnam County, in the southwest corner of the intersection of a private road leading west, 30.0 feet west of the center line of the highway, 22.6 feet south of the center line of the private road, and 15.5 feet south of the south post of the wooden gate for the road entrance. A standard disk, stamped "M 19 1933" and set in the top of a concrete post. (27.369 meters or 89.793 feet.)

M 19.—About 0.8 mile north along the main highway to Satsuma from the post office at **Welaka**, Putnam County, at the intersection of a branch paved road leading to the Colonial Inn, 33 feet west of the center line of the main road, and 24 feet north of the center line of the branch road. A standard disk, stamped "M 19 1933" and set in the top of a concrete post projecting about 2 inches above ground. (7.662 meters or 25.138 feet.)

P.T.S. 76 (U.S.G.S.)=1 (U.S.E.).—At **Welaka**, Putnam County, at the southwest corner of the intersection of Elm Street and Fourth Avenue, 33 feet west of the center line of Fourth Avenue, 31 feet south of the center line of Elm Street, between two large live oak trees, and about 18 feet from each. A United States Geological Survey standard disk, stamped "PRIM. TRAV. STA. NO. 76 27 1911" and set in the top of a concrete post. (8.058 meters or 26.437 feet.)

N 19.—At **Welaka**, Putnam County, at the intersection of Front and Elm Streets, diagonally across the street from the post office, across the street from the Welaka Civic Hall, 30 feet north of the center line of Elm Street, 29 feet east of the center line of Front Street, and 2 feet north of a flagpole in a yard in front of a filling station. A standard disk, stamped "N 19 1933" and set in the top of a concrete post projecting about 2 inches above ground. (6.981 meters or 22.903 feet.)

2 (U.S.E.).—At **Welaka**, Putnam County, on Elm Street, at the northwest corner of McLeod Brothers' general store and post office, 52 feet southeast of a large live oak tree, and about 38 feet south of the center line of the street, on a concrete berm to the foundation, 1 foot above the ground. A chiseled cross. (6.044 meters or 19.829 feet.)

3 (U.S.E.).—At **Welaka**, Putnam County, about 90 feet south of the foot of Elm Street, about 20 feet from the water's edge, east of Peterson's boathouse, 6 feet north of a camphor tree, and 1 foot north of a wire fence. The top of a ¼-inch rod set in the top of a 6-inch concrete cylinder projecting about 5 inches above ground. (1.469 meters or 4.820 feet.)

P 19.—About 1.2 miles south along the Welaka-Georgetown highway from the intersection of Elm Street and Third Avenue at **Welaka**, Putnam County, at the junction of a dirt road leading east, about 500 feet northwest of the point of curvature of a curve, 68 feet northeast of the north end of a concrete pipe culvert, and 36 feet east of the center line of the highway. A standard disk, stamped "P 19 1933" and set in the top of a concrete post projecting about 8 inches above ground. (9.446 meters or 30.991 feet.)

Q 19.—About 2.2 miles south along the main Welaka-Georgetown highway from the intersection of Elm Street and Third Avenue at **Welaka**, Putnam County, at the junction of the gravel road leading west to Fort Gates Ferry, 52 feet west of the center line of the main road, and 33 feet west of the center line of the gravel road. A standard disk, stamped "Q 19 1933" and set in the top of a concrete post projecting about 5 inches above ground. (6.630 meters or 21.752 feet.)

R 19.—About 4.0 miles south along the ferry road from the intersection of Elm Street and Third Avenue at **Welaka**, Putnam County, on the northeast side of St. Johns River at **Fort Gates Ferry**, 84 feet northeast of the foot of the wharf, 40 feet northeast of the northeast corner of a shed, and 39 feet southeast of the center line of the road at the landing. A standard disk, stamped "R 19 1933" and set in the top of a concrete post projecting about 4 inches above ground. (0.988 meter or 3.241 feet.)

S 19.—At the southwest landing of **Fort Gates Ferry**, Putnam County, 74 feet southwest of the foot of the ferry landing, 69 feet west of the front of a small frame house, and 27 feet northwest of the center line of a dirt road. A standard disk, stamped "S 19 1933" and set in the top of a concrete post projecting about 6 inches above ground. (1.870 meters or 6.135 feet.)

T 19.—About 1.0 mile west along the road to Norwalk and Lake Kerr from the west landing of the **Fort Gates Ferry**, Putnam County, 60 feet north of a

7-foot wooden-plank bridge over a small drain, 18 feet east of the center line of the road, and 5 feet northwest of a pine tree. A standard disk, stamped "T 19 1933" and set in the top of a concrete post projecting about 8 inches above ground. (3.340 meters or 10.958 feet.)

U 19.—About 3.2 miles west along the road to Lake Kerr from the west landing of the Fort Gates Ferry, Putnam County, at Norwalk, about 300 feet southwest of a fire observation tower, 30 feet southwest of the center line of a firebreak road, and 18 feet southeast of the center line of the trail. A standard disk, stamped "U 19 1933" and set in the top of a concrete post projecting about 6 inches above ground. (8.897 meters or 22.628 feet.)

26.9 (U.S.E.).—About 3.1 miles west along the road to Lake Kerr from the west landing of the Fort Gates Ferry, Putnam County, at Norwalk, near the fire observation tower, in the root of a tree. The top of a nail. (8.205 meters or 26.919 feet.)

52.9 (U.S.E.).—In Putnam County, about 5 miles east along the road to the west landing of Fort Gates Ferry from Lake Kerr, Marion County, and about 150 feet west of Corps of Engineers, U.S. Army, station 101+32, in the root of an oak tree. The top of a nail. (16.111 meters or 52.858 feet.)

V 19.—About 3½ miles east along the road to the west landing of the Fort Gates Ferry from Lake Kerr, Marion County, about 2.2 miles west of the fire station at Norwalk, at a crossroad, 52 feet northwest of the center of the intersection, 36 feet north of the center line of the road to Lake Kerr, and 30 feet west of the center line of the road to Salt Springs. A standard disk, stamped "V 19 1933" and set in the top of a concrete post projecting about 5 inches above ground. (13.775 meters or 45.193 feet.)

W 19.—About 1.4 miles northeast along road to the west landing of Fort Gates Ferry from milepost XXX at Lake Kerr, Marion County, at the junction of an old woods trail at the edge of a pine forest, on the top of a low ridge, 50 feet east of the road junction, and 21 feet southeast of the center line of the road. A standard disk, stamped "W 19 1933" and set in the top of a concrete post projecting about 6 inches above ground. (19.044 meters or 62.480 feet.)

X 19.—At Lake Kerr, Marion County, about 110 feet west of a filling station, on the south side of Beulah Avenue, 13 feet south of wooden milepost XXX, 30 feet west of the west corner of a two-story frame house, 27 feet southeast of the center line of the avenue, and 10 feet east of a 20-inch pine tree. A standard disk, stamped "X 19 1933" and set in the top of a concrete post projecting about ½ inch above ground. (19.548 meters or 64.134 feet.)

Y 19.—About 2.4 miles west along the main road to Ocala from wooden milepost XXX at Lake Kerr, Marion County, at the junction of a dirt road leading north to Riverside Island, 27 feet southeast of the center of the junction, 16 feet southeast of a signpost marked "Salt Springs 6, Eureka 6, Lake Kerr 2, Riverside Island", and 8 feet east of a small pine tree. A standard disk, stamped "Y 19 1933" and set in the top of a concrete post projecting about 5 inches above ground. (15.532 meters or 50.958 feet.)

Z 19.—About 4½ miles southwest along the main road to Ocala from wooden milepost XXX at Lake Kerr, Marion County, about 150 feet northeast of the crest of a ridge, at the crossing of a firebreak used as a road, 24 feet east of the center line of the main road, and 24 feet north of the center line of the firebreak. A standard disk, stamped "Z 19 1933" and set in the top of a concrete post projecting about 6 inches above ground. (34.855 meters or 114.353 feet.)

A 20.—About 7.8 miles southwest along the main road to Ocala from Lake Kerr, Marion County, about 1 mile northeast of the paved highway to Salt Springs, at the intersection of a dirt road from the northwest, 45 feet north of the road sign "Eureka 9, Va. Hunt Club 1", 33 feet northeast of the center line of the branch road, and 21 feet northwest of the center line of the Lake Kerr road. A standard disk, stamped "A 20 1933" and set in the top of a concrete post projecting about 6 inches above ground. (32.362 meters or 106.174 feet.)

B 20.—About 8.9 miles southwest along the main road to Ocala from Lake Kerr, Marion County, 70 feet south of the center of the intersection with the asphalt road to Salt Springs, 60 feet southwest of a signpost marked "Eureka 10, Lake Kerr 9, Salt Springs 8", and 21 feet west of the center line of the dirt road. A standard disk, stamped "B 20 1933" and set in the top of a concrete post projecting about 5 inches above ground. (19.727 meters or 64.721 feet.)

C 20.—About 12.4 miles northeast of the post office at Silver Springs, Marion County, on the main road from Ocala to Salt Springs, in the southwest corner of the intersection of a road leading south to Electra, 45 feet south of the main road, and 48 feet west of the center line of the road leading south. A standard

disk, stamped "C 20 1933" and set in the top of a concrete post projecting about 5 inches above ground. (18.963 meters or 62.214 feet.)

D 20.—About 11.0 miles northeast of the post office at Silver Springs, Marion County, on the main road from Ocala to Salt Springs, in the north corner of the intersection of a dirt road to the northwest, about 700 feet south of the south shore of a small lake, 42 feet northwest of the center line of the main road, and 33 feet northeast of the center line of the side road. A standard disk, stamped "D 20 1933" and set in the top of a concrete post projecting about 6 inches above ground. (23.603 meters or 77.438 feet.)

E 20.—About 7.4 miles northeast of the post office at Silver Springs, Marion County, on the main road from Ocala to Salt Springs, at Bruceville, at the intersection of a road east to Lacota, 40 feet northwest of the center line of the highway at the junction, and 14 feet southeast of a large pine tree carrying a telephone line. A standard disk, stamped "E 20 1933" and set in the top of a concrete post projecting about 4 inches above ground. (19.071 meters or 62.569 feet.)

F 20.—About 4.7 miles east along State Highway 19 from the post office at Silver Springs, Marion County, at its intersection with the Salt Springs highway, about 130 feet west of the center line of the Salt Springs highway, about 50 feet southwest of the southwest corner of F. J. Pitmon's filling station, and 45 feet north of the center line of the main road. A standard disk, stamped "F 20 1933" and set in the top of a concrete post projecting about 3 inches above ground. (20.024 meters or 65.695 feet.)

3 (U.S.E.).—About 4.3 miles east along State Highway 19 from the post office at Silver Springs, Marion County, just east of the bridge over Oklawaha River, about 0.1 mile north of the highway, near a shack, about 130 feet east of the east bank of the river, 70 feet east of the east side of a shed, 12 feet south of an 8-inch cedar tree, and 20 inches east of a 30-inch tree with a cedar tree growing beside it. A nail, surrounded by the letters "USBM", and set in the top of a concrete-filled stovepipe projecting about 4 inches above ground. (13.998 meters or 45.925 feet.)

2 (U.S.E.).—About 4.3 miles east along State Highway 19 from the post office at Silver Springs, Marion County, just east of the bridge over Oklawaha River, about 0.1 mile north of the highway, near a shack, 80 feet east of the east bank of the river, 70 feet south of a large live-oak tree, and 30 feet east of the east side of a shed. A nail, surrounded by the letters "USBM", and set in the top of a concrete-filled stovepipe projecting about 4 inches above ground. (13.332 meters or 43.740 feet.)

G 20.—About 2.2 miles east along State Highway 19 from the post office at Silver Springs, Marion County, at the junction of the road leading north to Fort McCoy, 40 feet east of the center line of the Fort McCoy road, 39 feet north of the center line of the main road, and 5 feet north of a pole. A standard disk, stamped "G 20 1933" and set in the top of a concrete post projecting about 4 inches above ground. (19.554 meters or 64.153 feet.)

H 20.—At Silver Springs, Marion County, on State Highway 19, in a park at the entrance to a private development fronting the highway, 85 feet east of the main entrance to the parkway center, 18.4 feet south of the south curb of the highway, in a bed of shrubbery, 5 feet east of a live-oak tree, and about 2 feet south of a row of poles. A standard disk, stamped "H 20 1933" and set in the top of a concrete post projecting about 4 inches above ground. (16.193 meters or 53.127 feet.)

S.S. (U.S.E.).—At Silver Springs, Marion County, on State Highway 19, at a private development fronting the highway, 13 feet east of a boat ticket office, in the east side of a 30-inch cypress tree, at the base. The top of a railroad spike. (13.869 meters or 45.502 feet.)

J 20.—About 2.0 miles south of the post office at Silver Springs, Marion County, on a dirt road leaving State Highway 19 about 0.3 mile west of the post office, in the northeast corner of the intersection of a paved road running from Ocala to Sharpes Ferry, about 100 feet north of the northwest corner of a one-story frame house, 48 feet north of the center line of the paved road, 30 feet east of the center line of the dirt road, and 25 feet north of the east opening of an iron-pipe culvert. A standard disk, stamped "J 20 1933" and set in the top of a concrete post projecting about 6 inches above ground. (21.001 meters or 68.901 feet.)

68.4 (U.S.E.).—About 2.0 miles south of the post office at Silver Springs, Marion County, on a dirt road leaving State Highway 19 about 0.3 mile west of the post office, in the northeast corner of the intersection of a paved road from

Ocala to Sharpes Ferry, about 91 feet north of the northwest corner of a one-story frame house, 39 feet north of the center line of the paved road, and 22 feet east of the center line of the dirt road, in the root of a tree. The top of a nail. (20.858 meters or 68.432 feet.)

K 20.—About 3.1 miles south of the post office at Silver Springs, Marion County, on a dirt road leaving State Highway 19 about 0.3 mile west of the post office, at a colored schoolhouse, 55 feet south of the southeast corner of the steeple, 30 feet west of the center line of the road, 7 feet west of an 8-inch oak tree, and 5 feet south of a fence. A standard disk, stamped "K 20 1933" and set in the top of a concrete post projecting about 5 inches above ground. (30.458 meters or 99.923 feet.)

L 20.—About 5.7 miles south of the post office at Silver Springs, Marion County, on a dirt road leaving State Highway 19 about 0.3 mile west of the post office, in the northeast corner of the intersection of a road running northwest to Ocala, 47 feet east of the center line of the dirt road from the north, 30 feet north of the center line of the dirt road to the east, and 57 feet northeast of a 4-foot live oak tree, in line with a row of poles. A standard disk, stamped "L 20 1933" and set in the top of a concrete post projecting about 5 inches above ground. (27.883 meters or 91.479 feet.)

M 20.—About 2½ miles southeast along the Atlantic Coast Line Railroad from the Oklawaha Avenue crossing in Ocala, Marion County, about ½ mile northwest of Montague schoolhouse, in the northeast corner of the crossing of a dirt road, 45 feet east of the center line of the road, 43.0 feet north of the north rail, and about 93 feet southeast of a vertical rail marking the boundary of the railroad property. A standard disk, stamped "M 20 1933" and set in the top of a concrete post projecting about 5 inches above ground. (21.719 meters or 71.256 feet.)

N 20.—About 1.8 miles south along the Ocala to Pedro highway from the county courthouse at Ocala, Marion County, about 600 feet north of the intersection of State Highway 2, on the main line of the Seaboard Air Line Railway, about 160 feet northwest of the point of curvature of a curve on the railroad, 36 feet west of the center line of the road, 34.4 feet northeast of the east rail, 30 feet southeast of a pole along the east side of the railroad, and 11 feet northwest of a pole along the road. A standard disk, stamped "N 20 1933" and set in the top of a concrete post projecting about 3 inches above ground. (36.643 meters or 120.220 feet.)

P 20.—About 5.3 miles south along the highway from the county courthouse at Ocala, Marion County, on the Seaboard Air Line Railway, at Santos, about 700 feet south of milepost 743, about 250 feet north of a road crossing, about 110 feet north of the northeast corner of a store facing the track, and 24.9 feet west of the west rail of the main track, near a pole. A standard disk, stamped "P 20 1933" and set in the top of a concrete post projecting about 3 inches above ground. (21.356 meters or 70.065 feet.)

Q 20.—About 5.6 miles south along the Ocala to Pedro highway from the county courthouse at Ocala, Marion County, about 175 feet south of the intersection of an east-and-west paved road from Santos, at a section corner, 30 feet west of the center line of the highway, and 9 feet south of a pole. A standard disk, stamped "Q 20 1933" and set in the top of a concrete post projecting about 5 inches above ground. (20.409 meters or 66.959 feet.)

R 20.—About 6.3 miles south along the Ocala to Pedro highway from the county courthouse at Ocala, Marion County, at the intersection of a paved road to Shady Grove, about 100 feet from the northwest corner of a one-story frame cottage owned by E. T. Helvinson, 63 feet northeast of the center of the road intersection, 48 feet east of the center line of the road, and 12 feet north of a small live-oak tree, in the northwest corner of the yard. A standard disk, stamped "R 20 1933" and set in the top of a concrete post projecting about 3 inches above ground. (31.733 meters or 104.111 feet.)

S 20.—About 6.3 miles south along the Ocala-Pedro road from the county courthouse at Ocala, Marion County, thence about 2.0 miles west along the Shady Grove road, at the intersection of a graded dirt road to the south, 45 feet south of a wooden gate to a frame house, 40 feet west of the center line of the highway, 35 feet north of two pine trees growing together, and 2 feet east of a fence. A standard disk, stamped "S 20 1933" and set in the top of a concrete post projecting about 5 inches above ground. (31.551 meters or 103.514 feet.)

T 20.—About 6 miles southwest along a woods trail from the county courthouse at **Ocala**, Marion County, about 2 miles west of the Ocala to Shady Grove road, about $\frac{1}{4}$ mile west of a lone house with a white chimney and rock fence around it, at the intersection of two trails, about 25 feet south of the main trail, 15 feet south of a 10-inch white oak, and 13 feet north of a 12-inch pine tree. A standard disk, stamped "T 20 1933" and set in the top of a concrete post projecting about 8 inches above ground. (26.273 meters or 86.197 feet.)

NOTE.—This bench mark is probably best reached from Ocala courthouse by going 8.1 miles west on the new highway to Dunnellon and Stokes Ferry, turning left (south) on sand road, and following this road 2.0 miles through woods.

U 20.—About 8.1 miles southwest along the new highway to Dunnellon and Stokes Ferry from the county courthouse at **Ocala**, Marion County, at the intersection of a connecting dirt road to Santos, 60 feet southeast of the center line of the highway, about 50 feet northeast of the northeast opening of an iron-pipe culvert for a highway ditch, about 20 feet northwest of the dirt road, and 9 feet northeast of a power-transmission pole, in line with the poles. A standard disk, stamped "U 20 1933" and set in the top of a concrete post projecting about 4 inches above ground. (26.770 meters or 87.828 feet.)

V 20.—About 11.0 miles southwest along the new highway to Dunnellon and Stokes Ferry from the county courthouse at **Ocala**, Marion County, near a dirt road branch at the southwest end of a cut and the northeast end of a fill, about 175 feet north of power-transmission pole 317, and 33 feet northwest of the center line of the highway. A standard disk, stamped "V 20 1933" and set in the top of a concrete post projecting about 4 inches above ground. (28.518 meters or 93.563 feet.)

W 20.—About 10.8 miles east along the new Ocala-Dunnellon highway from the Pennsylvania Avenue crossing of the Atlantic Coast Line Railroad at **Dunnellon**, Marion County, about 115 feet northwest of the junction of a new graded road to Stokes Ferry, about 110 feet west of the west head wall of a concrete box culvert, and 40 feet northwest of the center line of the road to Dunnellon. A standard disk, stamped "W 20 1933" and set in the top of a concrete post projecting about 5 inches above ground. (25.137 meters or 82.470 feet.)

X 20.—About 8.8 miles east along the new Ocala-Dunnellon highway from the Pennsylvania Avenue crossing of the Atlantic Coast Line Railroad at **Dunnellon**, Marion County, about 2.0 miles west of the junction of the road to Stokes Ferry, at the west end of a slight cut, about 60 feet east of a pole, 37 feet south of the center line of the highway, 30 feet east of the south opening of a concrete pipe culvert, and 2 feet south of a row of power-transmission poles. A standard disk, stamped "X 20 1933" and set in the top of a concrete post projecting about 6 inches above ground. (18.860 meters or 61.877 feet.)

Y 20.—About 6.8 miles east along the new Ocala-Dunnellon highway from the Pennsylvania Avenue crossing of the Atlantic Coast Line Railroad at **Dunnellon**, Marion County, at a dirt-road crossing, at the east end of a slight cut, about 103 feet north of Corps of Engineers, United States Army, Test Well No. 4, 37 feet north of the center line of the highway, and 26 feet east of the center line of the dirt road. A standard disk, stamped "Y 20 1933" and set in the top of a concrete post projecting about 6 inches above ground. (19.680 meters or 64.567 feet.)

Z 20.—About 4.2 miles east along the new Ocala-Dunnellon highway from the Pennsylvania Avenue crossing of the Atlantic Coast Line Railroad at **Dunnellon**, Marion County, at the west end of a slight cut, about 200 feet west of the center line of the entrance road to Pageland Lodge, about 60 feet west of the west opening of a 12-inch iron-pipe culvert, 34 feet south of the center line of the highway, 10 feet east of power-transmission pole 213, and 21 feet north of a wire fence. A standard disk, stamped "Z 20 1933" and set in the top of a concrete post projecting about 5 inches above ground. (19.704 meters or 64.646 feet.)

A 21.—About 1.3 miles east along the new Ocala-Dunnellon highway from the Pennsylvania Avenue crossing of the Atlantic Coast Line Railroad at **Dunnellon**, Marion County, about 0.5 mile east of the railroad crossing at the Seaboard Air Line Railway passenger station, at the intersection of a dirt road leading southeast, 39 feet south of the center line of the highway, and about 20 feet east of the dirt road. A standard disk, stamped "A 21 1933"

and set in the top of a concrete post projecting about 4 inches above ground. (18.198 meters or 59.705 feet.)

B 21.—At Dunnellon, Marion County, about 180 feet north of the Seaboard Air Line Railway passenger station, about 350 feet southwest of a railroad water tank, about 295 feet east of the middle of a concrete bridge over Withlacoochee River, 47 feet west of the west rail of the main track, 39 feet north of the center line of the highway, 20.0 feet west of the west rail of a side-track, and 6 feet north of a pole. A standard disk, stamped "B 21 1933" and set in the top of a concrete post projecting about 3 inches above ground. (9.966 meters or 32.697 feet.)

C 21.—At Dunnellon, Marion County, one block north of the Atlantic Coast Line Railroad passenger station, at the north end of the gravel station platform, about 350 feet south of a cantilever signal bridge over a double track, 39 feet south of the center line of a street, and 11.1 feet west of the west rail of the south-bound main track, between a cabbage palm and a white wooden post about 6 feet apart. A standard disk, stamped "C 21 1933" and set in the top of a concrete post projecting about 3 inches above ground. (14.954 meters or 49.062 feet.)

DUNNELLO.—At Dunnellon, Marion County, on the main street, one-half block from the Atlantic Coast Line Railroad station, in the front wall of a one-story, red brick building used as the office of the City Clerk and Tax Collector, 10.1 feet west of the west curb of the street, 18 inches south of the northeast corner of the building, and 30 inches above the ground. A standard disk, stamped "DUNNELLO 1932" and set vertically. (16.387 meters or 53.763 feet.)

For additional bench marks in the vicinity of Dunnellon, see pages 59, 60, and 101.

51.6 (?).—About 0.5 mile west along the highway to Yankeetown from the post office at Dunnellon, Marion County, and about 0.4 mile west of the Seaboard Air Line Railway passenger station. (15.713 meters or 51.552 feet.)

NOTE.—Anyone recovering this bench mark will be doing a service to this Bureau if he sends in a report describing it and its exact location.

D 21.—About 2.2 miles west along the Dunnellon-Yankeetown highway from the Pennsylvania Avenue crossing of the Atlantic Coast Line Railroad at Dunnellon, Marion County, at a dirt-road crossing, about $\frac{1}{4}$ mile west of the west end of a row of Australian pine trees, 48 feet west of the center line of the dirt road, and 36 feet south of the center line of the highway. A standard disk, stamped "D 21 1933" and set in the top of a concrete post projecting about 5 inches above ground. (16.691 meters or 54.760 feet.)

E 21.—About 4.3 miles west along the Dunnellon-Yankeetown highway from the Pennsylvania Avenue crossing of the Atlantic Coast Line Railroad at Dunnellon, Marion County, at the junction of the road to Lebanon, between the paved roads, about 400 feet west of a wooden bridge, 51 feet south of the center line of the road to Lebanon, 45 feet north of the center line of the road to Yankeetown, and midway between two iron-pipe culverts. A standard disk, stamped "E 21 1933" and set in the top of a concrete post projecting about 4 inches above ground. (18.142 meters or 59.521 feet.)

F 21.—In Levy County, about 6.6 miles west along the Dunnellon-Yankeetown highway from the Pennsylvania Avenue crossing of the Atlantic Coast Line Railroad at Dunnellon, Marion County, about $\frac{1}{4}$ mile east of a two-story frame house, across the road from an abandoned filling station and burned house with a brick chimney standing, 30 feet north of the center line of the road, and 18 feet north of pole 6. A standard disk, stamped "F 21 1933" and set in the top of a concrete post projecting about 5 inches above ground. (18.461 meters or 60.567 feet.)

G 21.—In Levy County, about 8.6 miles west along the main highway to Yankeetown from the Pennsylvania Avenue crossing of the Atlantic Coast Line Railroad at Dunnellon, Marion County, at the junction of a dirt road leading south to Henry's Landing, about 300 feet west of a one-story frame house, in a grove of pine trees, and 30 feet north of the center line of the highway. A standard disk, stamped "G 21 1933" and set in the top of a concrete post projecting about 5 inches above ground. (14.508 meters or 47.598 feet.)

H 21.—In Levy County, about 10.6 miles west along the main highway to Yankeetown from the Pennsylvania Avenue crossing of the Atlantic Coast

Line Railroad at **Dunnellon**, Marlon County, about 100 feet east of a pole marked "2" (the second west of pole 190), 70 feet north of a wire fence, and 35 feet north of the center line of the highway. A standard disk, stamped "H 21 1933" and set in the top of a concrete post projecting about 5 inches above ground. (9.996 meters or 32.795 feet.)

J 21.—About 3.5 miles east along the main highway to Dunnellon from the post office at **Yankeetown**, Levy County, about ½ mile east of the Inglis Steam Power Plant of the Florida Power Corporation, at the junction of the road from Dunnellon along the south side of the river, about 400 feet northeast of a small frame church with a steeple in the back, 45 feet north of the junction of the center lines of the roads, 27 feet northeast of the center line of the main road, and 12 feet northeast of a pole marked "2." A standard disk, stamped "J 21 1933" and set in the top of a concrete post projecting about 6 inches above ground. (5.075 meters or 16.650 feet.)

K 21.—At **Yankeetown**, Levy County, on the main road to Dunnellon (Sixty-third Street), about 0.4 mile north of the post office, at the intersection of a dirt road leading west, 45 feet south of the center line of the dirt road, and 30 feet west of the center line of Sixty-third Street, in a group of palm trees. A standard disk, stamped "K 21 1933" and set in the top of a concrete post projecting about 6 inches above ground. (1.268 meters or 4.160 feet.)

7.5 (City of Yankeetown).—At **Yankeetown**, Levy County, in the southwest corner of the intersection of Sixty-third Street and Riverside Drive, about 65 feet south of the center line of Riverside Drive, 39 feet west of the center line of Sixty-third Street, near the northeast corner of the porch of the Izaak Walton Lodge Hotel, 9 feet northeast of the north steps to the porch, and 4 feet west of the west buttress of the west stone gateway of the entrance to the hotel. The top of a 1-inch iron pipe, set in concrete. (2.279 meters or 7.477 feet.)

L 21.—At **Yankeetown**, Levy County, in the southwest corner of the intersection of Sixty-third Street and Riverside Drive, about 65 feet south of the center line of Riverside Drive, 37 feet west of the center line of Sixty-third Street, near the northeast corner of the porch of the Izaak Walton Lodge Hotel, 10 feet northeast of the north steps to the hotel porch, and 2 feet west of the west buttress of the west stone gateway of the entrance to the hotel. A standard disk, stamped "L 21 1933" and set in the top of a concrete post projecting about 1 inch above ground. (2.294 meters or 7.526 feet.)

M 21.—About 0.7 mile southwest along the road from the post office at **Yankeetown**, Levy County, at **Port Inglis**, on the north bank of Withlacoochee River, at Dowda's fish wharf, about 10 feet north of the edge of the water, 3 feet southwest of the southeast corner pile of the platform, and 1 foot east of the south steps to the platform. A standard disk, stamped "M 21 1933" and set in the top of a concrete post projecting about 9 inches above ground. (1.195 meters or 3.921 feet.)

LINE 12, DUNNELLON TO ARCHER, FLA.

[First-order leveling]

This line follows the Seaboard Air Line Railway from Dunnellon to Archer. The field work was done, during March 1933, by a party in charge of W. R. Tucker, aid.

For additional bench marks in the vicinity of Dunnellon, see pages 58 and 101.

N 21.—About 0.7 mile northeast along the Seaboard Air Line Railway from the passenger station at **Dunnellon**, Marlon County, about 400 feet northeast of milepost 758, about 750 feet southwest of the point of curvature of a curve, 46.7 feet southeast of the east rail of the main track, and 33.5 feet southeast of the east rail of a sidetrack. A standard disk, stamped "N 21 1933" and set in the top of a concrete post projecting about 5 inches above ground. (10.120 meters or 33.202 feet.)

P 21.—About 2.8 miles northeast along the Seaboard Air Line Railway from the passenger station at **Dunnellon**, Marlon County, about 0.2 mile north of milepost 756, about 300 feet south of the south end of a cut, near the top of the grade, near a dirt-road crossing, 23.0 feet east of the east rail, and 30 feet west of the dirt road. A standard disk, stamped "P 21 1933" and set in the top of a

concrete post projecting about 6 inches above ground. (18.142 meters or 59.521 feet.)

Q 21.—About 5.4 miles northeast along the Seaboard Air Line Railway from the passenger station at **Dunnellon**, Marion County, about 1,275 feet south of milepost 753, at the crossing of the Atlantic Coast Line Railroad branch line from Juliette to Ocala, 123.5 feet south of the south rail of the Atlantic Coast Line Railroad, and 22.3 feet east of the east rail of the Seaboard Air Line Railway. A standard disk, stamped "G 21 1933" and set in the top of a concrete post projecting about 5 inches above ground. (20.129 meters or 66.040 feet.)

R 21.—About 6.3 miles northeast along the Seaboard Air Line Railway from the passenger station at **Dunnellon**, Marion County, at a concrete bridge over United States Highway No. 41, in the top of the south end of the west main concrete beam, 3.5 feet west of the west rail, and 1.7 feet from the south end of the beam. A standard disk, stamped "R 21 1933." (18.262 meters or 59.915 feet.)

S 21.—About 9½ miles northeast along the Seaboard Air Line Railway from the passenger station at **Dunnellon**, Marion County, about 740 feet south of milepost 749, at the north end of a passing siding at **Hoyt**, at the south end of a cut, about 150 feet north of the switch point, and 26.0 feet west of the west rail. A standard disk, stamped "S 21 1933" and set in the top of a concrete post projecting about 5 inches above ground. (30.096 meters or 98.740 feet.)

T 21.—About 11.0 miles northeast along the Seaboard Air Line Railway from the passenger station at **Dunnellon**, Marion County, about 0.4 mile south of milepost 747, at the north end of a sand cut, at the crossing of the graded dirt road from Romeo to Ocala, 37 feet south of the center line of the road, and 23.1 feet west of the west rail. A standard disk, stamped "T 21 1933" and set in the top of a concrete post projecting about 5 inches above ground. (30.541 meters or 100.200 feet.)

U 21.—About 13.2 miles northeast along the Seaboard Air Line Railway from the passenger station at **Dunnellon**, Marion County, at **Early Bird**, at an unimproved dirt-road crossing, about 750 feet west of the west point of tangency of a curve, about 200 feet west of post "35-20", 33.6 feet north of the north rail, and 12 feet northwest of a pole. A standard disk, stamped "U 21 1933" and set in the top of a concrete post projecting about 4 inches above ground. (22.570 meters or 74.048 feet.)

V 21.—In Marion County, about 4.7 miles southeast along the Seaboard Air Line Railway from the station at **Morrison**, Levy County, in the vicinity of **Standard**, about 0.6 mile east of milepost 742, about 0.1 mile east of a small frame house with a brick chimney, at an unimproved dirt-road crossing near its junction with a graded dirt road, 27.8 feet south of the south rail, 33 feet northeast of a wire fence, and 15 feet southeast of a pole. A standard disk, stamped "V 21 1933" and set in the top of a concrete post projecting about 4 inches above ground. (23.450 meters or 76.936 feet.)

W 21.—About 2.1 miles southeast along the Seaboard Air Line Railway from the station at **Morrison**, Levy County, about 240 feet northwest of milepost 740, at the grade crossing of the dirt road from **Standard** to **Morrison**, at the southeast end of a fill, beside a vertical rail on the railroad property line, 36.2 feet northeast of the east rail, and 12 feet north of the center line of the road. A standard disk, stamped "W 21 1933" and set in the top of a concrete post projecting about 3 inches above ground. (19.570 meters or 64.206 feet.)

X 21.—At **Morrison**, Levy County, about 205 feet northeast of the Seaboard Air Line Railway station, at a paved-road crossing, 42 feet south of a crossing-warning sign, 24 feet southwest of the center line of the paved road, and 16.3 feet southeast of the east rail of the main track. A standard disk, stamped "X 21 1933" and set in the top of a concrete post projecting about 3 inches above ground. (18.744 meters or 61.496 feet.)

Y 21.—About 2.8 miles northwest along the Seaboard Air Line Railway from the station at **Morrison**, Levy County, about 0.6 mile southeast of the station at **Montbrook**, at the Atlantic Coast Line Railroad crossing, about 120 feet west of the center of the railroad crossing, 93.2 feet southwest of the west rail of the Atlantic Coast Line Railroad, and 36.2 feet southwest of the west rail of the Seaboard Air Line Railway, on the prolongation of the center line of an old paved road paralleling the Atlantic Coast Line Railroad. A standard disk, stamped "Y 21 1933" and set in the top of a concrete post projecting about 4 inches above ground. (19.146 meters or 62.815 feet.)

Z 21.—About 2.5 miles south along the Seaboard Air Line Railway from the station at Williston, Levy County, about 0.4 mile north of milepost 733, at a dirt-road crossing, 49.0 feet west of the west rail, and 15 feet north of the center line of the road, in line with a row of poles. A standard disk, stamped "Z 21 1933" and set in the top of a concrete post projecting about 4 inches above ground. (19.514 meters or 64.022 feet.)

A 22.—At Williston, Levy County, about 150 feet north of the north end of the Seaboard Air Line Railway passenger station, at the Noble Avenue crossing, 44 feet north of the center line of Noble Avenue, 15.6 feet east of the east rail of the main track, 14 feet northeast of the crossing-warning sign, and 5½ feet west of a palm tree. A standard disk, stamped "A 22 1933" and set in the top of a concrete post projecting about 2 inches above ground. (23.283 meters or 76.388 feet.)

B 22.—About 2.4 miles north along the Seaboard Air Line Railway from the station at Williston, Levy County, about 0.15 mile north of milepost 728, near the south end of a cut and the north end of a fill, at a gravel-road crossing, 24 feet north of the center line of the gravel road, 14.7 feet east of the east rail, and 10 feet northeast of a crossing-warning sign. A standard disk, stamped "B 22 1933" and set in the top of a concrete post projecting about 6 inches above ground. (25.929 meters or 85.069 feet.)

C 22.—About 4.1 miles north along the Seaboard Air Line Railway from the station at Williston, Levy County, about 580 feet south of milepost 726, about 160 feet south of the point of switch of a siding, at a gravel-road crossing, 25.6 feet east of the east rail of the main track, and 8.8 feet east of the east rail of the sidetrack. A standard disk, stamped "C 22 1933" and set in the top of a concrete post projecting about 3 inches above ground. (22.584 meters or 74.094 feet.)

D 22.—About 6.3 miles north along the Seaboard Air Line Railway from the station at Williston, Levy County, about 365 feet north of milepost 724, at a dirt-road crossing, about 55 feet south of the center line of the dirt road, 33.1 feet east of the east rail, and 18 feet south of a pole, in line with a row of poles. A standard disk, stamped "D 22 1933" and set in the top of a concrete post projecting about 6 inches above ground. (21.549 meters or 70.699 feet.)

E 22.—About 4.2 miles southeast along the Seaboard Air Line Railway from the Atlantic Coast Line Railroad crossing at Archer, Alachua County, about ¼ mile southeast of milepost 722, 48 feet north of the center of a dirt-road crossing, 33 feet south of a pole, and 22.3 feet northeast of the east rail. A standard disk, stamped "E 22 1933" and set in the top of a concrete post projecting about 5 inches above ground. (23.337 meters or 76.565 feet.)

F 22.—About 2.6 miles south along the Seaboard Air Line Railway from Union Station at Archer, Alachua County, about 0.4 mile south of milepost 721, at a dirt-road crossing, 48 feet northeast of the center of the crossing, and 33.8 feet east of the east rail, near a railroad property-line marker. A standard disk, stamped "F 22 1933" and set in the top of a concrete post projecting about 5 inches above ground. (20.806 meters or 68.261 feet.)

For additional bench marks in the vicinity of Archer, see pages 32 and 33.

LINE 13, FORT PIERCE TO PUNTA GORDA, FLA.

[First-order leveling]

This line follows State Highway 8 from Fort Pierce to Childs, State Highway 18 from Childs to Arcadia, and the Atlantic Coast Line Railroad from Arcadia to Punta Gorda. The field work was done, during March 1933, by a party in charge of W. R. Tucker, aid.

For additional bench marks in the vicinity of Fort Pierce, see pages 79 and 80.

S 18.—About 2.0 miles southwest along State Highway 8 from the Florida East Coast Railway passenger station at Fort Pierce, St. Lucie County, about 140 feet west of the intersection of Thirty-first Street, across the road from a point about 70 feet east of the Fairlawn grocery and filling station, and 34.0 feet north of the center line of the highway. A standard disk, stamped "S 18

1933" and set in the top of a concrete post projecting about 4 inches above ground. (5.862 meters or 19.232 feet.)

T 18.—About 4.1 miles southwest along State Highway 8 from the Florida East Coast Railway passenger station at Fort Pierce, St. Lucie County, at the intersection of an asphalt road connecting Orange Avenue and a sand road leading south, about 150 feet southwest of a filling station, 63 feet southwest of the center of the crossroads, 41.7 feet south of the center line of the highway, 34 feet west of the center line of a dirt road, and 20 feet southwest of the west opening of an iron-pipe culvert. A standard disk, stamped "T 18 1933" and set in the top of a concrete post projecting about 5 inches above ground. (5.545 meters or 18.192 feet.)

U 18.—About 6.4 miles southwest along State Highway 8 from the Florida East Coast Railway passenger station at Fort Pierce, St. Lucie County, 67 feet west of the intersection of a marl road, 42.9 feet north of the highway, at the west end of an S-curve, and 36 feet west of the west end of an iron-pipe culvert. A standard disk, stamped "U 18 1933" and set in the top of a concrete post projecting about 5 inches above ground. (6.160 meters or 20.210 feet.)

V 18.—About 8.3 miles southwest along State Highway 8 from the Florida East Coast Railway passenger station at Fort Pierce, St. Lucie County, just west of a 20-foot wooden bridge across a drainage ditch, 28 feet southwest of the southwest corner of this bridge, 30 feet east of the center line of the highway, and 29 feet south of the center line of the highway. A standard disk, stamped "V 18 1933" and set in the top of a concrete post projecting about 4 inches above ground. (6.995 meters or 22.949 feet.)

W 18.—About 10.3 miles southwest along State Highway 8 from the Florida East Coast Railway passenger station at Fort Pierce, St. Lucie County, about 300 feet east of the east end of a long curve, at the west end of a 35-foot wooden bridge across a drainage ditch, 18 feet southeast of the west end of this bridge, at the intersection of a sand road leading south, and 25 feet southeast of the center line of the highway. A standard disk, stamped "W 18 1933" and set in the top of a concrete post projecting about 5 inches above ground. (7.006 meters or 22.986 feet.)

X 18.—About 13.4 miles southwest along State Highway 8 from the Florida East Coast Railway passenger station at Fort Pierce, St. Lucie County, at the west point of curvature of a slight curve, at a private bridge, 22.6 feet south of the center line of the highway, 14.4 feet east of the center line of the wooden bridge, 7 feet south of the west end of the guard rail, and 5 feet west of the south opening of an iron-pipe culvert. A standard disk, stamped "X 18 1933" and set in the top of a concrete post projecting about 5 inches above ground. (7.347 meters or 24.104 feet.)

Y 18.—About 15.3 miles southwest along State Highway 8 from the Florida East Coast Railway passenger station at Fort Pierce, St. Lucie County, about 0.2 mile west of a bridge over a large drainage canal, 33 feet southwest of the west end of a 150-foot bridge over a drain, 24.6 feet south of the center line of the highway, and 10 feet east of the center line of a wooden bridge to a dirt road leading south. A standard disk, stamped "Y 18 1933" and set in the top of a concrete post projecting about 5 inches above ground. (7.667 meters or 25.164 feet.)

Z 18.—About 17.3 miles southwest along State Highway 8 from the Florida East Coast Railway passenger station at Fort Pierce, St. Lucie County, 117 feet west of the west end of a wooden bridge over a creek known as Johnson's Pond, 20 feet northwest of the center line of the highway, and 4.5 feet north of the west end of the north guard rail. A standard disk, stamped "Z 18 1933" and set in the top of a concrete post projecting about 6 inches above ground. (7.803 meters or 25.600 feet.)

G 22.—About 20.0 miles southwest along State Highway 8 from the Florida East Coast Railway passenger station at Fort Pierce, St. Lucie County, about 0.3 mile east of a curve, about 210 feet east of the east end of a 30-foot wooden bridge over a creek, 20.8 feet north of the center line of the highway, and 6 feet north of the east end of the guard rail. A standard disk, stamped "G 22 1933" and set in the top of a concrete post projecting about 7 inches above ground. (8.450 meters or 27.723 feet.)

H 22.—In St. Lucie County, about 13.9 miles northeast along State Highway 8 from the city hall at Okeechobee, Okeechobee County, about 183 feet west of the center of 16-foot wooden bridge 22, in line with the power-transmission line poles, 36.5 feet northwest of the center line of the highway, and 23 feet west of the west end of the guard rail. A standard disk, stamped "H 22 1933" and set

in the top of a concrete post projecting 6 inches above ground. (9.251 meters or 30.351 feet.)

J 22.—In St. Lucie County, about 11.8 miles northeast along State Highway 8 from the city hall at Okeechobee, Okeechobee County, about 270 feet east of the east end of 60-foot wooden bridge 27, 60 feet north of the center of a wooden plank bridge for a dirt side-road, in line with the power-transmission line poles, 57 feet northeast of pole 26 K 4, and 40.0 feet northwest of the center line of the highway. A standard disk, stamped "J 22 1933" and set in the top of a concrete post projecting about 5 inches above ground. (10.805 meters or 35.449 feet.)

K 22.—About 9.0 miles northeast along State Highway 8 from the city hall at Okeechobee, Okeechobee County, about 180 feet east of a 36-foot wooden bridge, 32 feet north of the east end of a guard fence, and 39.8 feet northwest of the center line of the highway. A standard disk, stamped "K 22 1933" and set in the top of a concrete post projecting about 6 inches above ground. (16.432 meters or 53.911 feet.)

L 22.—About 7.4 miles northeast along State Highway 8 from the city hall at Okeechobee, Okeechobee County, 57 feet northwest of the center of 32-foot wooden bridge 30, about 210 feet southwest of power-transmission line pole 30 K 7, and 40 feet north of the center line of the highway. A standard disk, stamped "L 22 1933" and set in the top of a concrete post projecting about 5 inches above ground. (16.923 meters or 55.522 feet.)

M 22.—About 5.4 miles northeast along State Highway 8 from the city hall at Okeechobee, Okeechobee County, at the crossing of an industrial railroad, 46.8 feet northwest of the center line of the highway, 41.7 feet southwest of the west rail, and 37 feet west of the west opening of a double iron-pipe culvert carrying a ditch under the railroad. A standard disk, stamped "M 22 1933" and set in the top of a concrete post projecting about 5 inches above ground. (14.547 meters or 47.726 feet.)

N 22.—About 3.4 miles east along State Highway 8 from the city hall at Okeechobee, Okeechobee County, about 750 feet west of a wooden bridge, at the intersection of a dirt road from the north, 37.5 feet north of the center line of the highway, and 27 feet west of the dirt road. A standard disk, stamped "N 22 1933" and set in the top of a concrete post projecting about 5 inches above ground. (9.556 meters or 31.352 feet.)

P 22.—About 1.2 miles east along State Highway 8 from the city hall at Okeechobee, Okeechobee County, at the Seaboard Air Line Railway crossing, across the road from the plant and yard of the Texas Co., 108 feet northwest of the west opening of a concrete box culvert south of the road and under the railroad, 51 feet from the west opening of an iron-pipe culvert under the railroad, 43.6 feet west of the west rail, and 37.6 feet north of the center line of the highway. A standard disk, stamped "P 22 1933" and set in the top of a concrete post projecting about 5 inches above ground. (7.227 meters or 23.711 feet.)

Spur line to Lake Okeechobee.

Tidal 2.—About 5.0 miles southeast along Connors Highway from the city hall at Okeechobee, Okeechobee County, at Lake Okeechobee, near the draw-bridge over Taylor's Creek, about 230 feet north of the northwest corner of the bridge, about 120 feet southeast of a house north of the bridge, and 25 feet west of the west bank of the creek. A standard disk, set in the top of an 8-inch tile filled with concrete and projecting 8 inches above ground. (6.149 meters or 20.174 feet.)

End of the spur line.

Q 22.—At Okeechobee, Okeechobee County, at the city hall, at the intersection of North Park and Cherokee Streets, in the northwest corner of the yard, at a flagpole, 42.0 feet south of the center line of North Park Street, 37.6 feet east of the center line of Cherokee Street, and 10 feet southeast of a chain-fence corner. A standard disk, stamped "Q 22 1933" and set in the top of a concrete post projecting about 5 inches above ground. (8.696 meters or 28.530 feet.)

R 22.—At Okeechobee, Okeechobee County, about 0.35 mile west and 0.1 mile north of the city hall, at the county courthouse, in the south front of the building, in the top of the concrete entrance plaza, 2 feet east of the center

of the Corinthian column, at the west end of an imitation Doric column. A standard disk, stamped "R 22 1933." (9.619 meters or 31.558 feet.)

S 22.—At **Okeechobee**, Okeechobee County, on North Park Street, about 0.6 mile west of the city hall, at the Florida East Coast Railway crossing, 33 feet north of the center line of the street, and 17.8 feet east of the east rail. A standard disk, stamped "S 22 1933" and set in the top of a concrete post projecting about 3 inches above ground. (9.790 meters or 32.119 feet.)

T 22.—About 2.7 miles west along State Highway 8 from the city hall at **Okeechobee**, Okeechobee County, at the intersection of an abandoned street leading south, 37.5 feet south of the center line of the highway, 30 feet west of the center line of the old street, and 10 feet south of the west opening of a concrete pipe culvert. A standard disk, stamped "T 22 1933" and set in the top of a concrete post projecting about 5 inches above ground. (9.864 meters or 32.362 feet.)

U 22.—About 4.5 miles west along State Highway 8 from the city hall at **Okeechobee**, Okeechobee County, about 700 feet west of a wooden bridge, 32 feet northwest of the west end of the guard fence along the north side of the bridge approach, and 41.2 feet north of the center line of the highway, across the road from a dirt road leading south. A standard disk, stamped "U 22 1933" and set in the top of a concrete post projecting about 4 inches above ground. (9.041 meters or 29.662 feet.)

V 22.—About 6.6 miles west along State Highway 8 from the city hall at **Okeechobee**, Okeechobee County, about 200 feet southeast of power-transmission line pole 8 L 9, 51 feet north of a pole, and 15.3 feet north of the center line of the highway, in the top of the north concrete head wall of a concrete box culvert, 2 feet east of the west end of the head wall. A standard disk, stamped "V 22 1933." (9.503 meters or 31.178 feet.)

W 22.—About 9.4 miles west along State Highway 8 from the city hall at **Okeechobee**, Okeechobee County, at the east end of the bridge over Kissimmee River, at the west end of the approach fill, 21 feet northeast of pole 294 E 48, 15.0 feet south of the center line of the highway, and 12 feet east of the south end of the east abutment. A standard disk, stamped "W 22 1933" and set in the top of a concrete post projecting about 6 inches above ground. (9.237 meters or 30.403 feet.)

X 22.—In Highlands County, about 10.0 miles west along State Highway 8 from the city hall at **Okeechobee**, Okeechobee County, at the west end of the bridge over Kissimmee River, at the toe of the approach fill, 32 feet south of the center line of the highway, 26 feet southwest of the south end of the abutment, and 8 feet south of the end of the wing wall. A standard disk, stamped "X 22 1933" and set in the top of a concrete post projecting about 4 inches above ground. (7.939 meters or 26.047 feet.)

Y 22.—In Highlands County, about 12.6 miles west along State Highway 8 from the city hall at **Okeechobee**, Okeechobee County, about 0.1 mile west of a wooden bridge, 54.0 feet northeast of the center line of the highway, and 42 feet north of the center of a wooden bridge in a side road leading north. A standard disk, stamped "Y 22 1933" and set in the top of a concrete post projecting about 5 inches above ground. (10.023 meters or 32.884 feet.)

Z 22.—In Highlands County, about 15.0 miles west along State Highway 8 from the city hall at **Okeechobee**, Okeechobee County, at the intersection of a trail leading south, about 200 feet south of power-transmission pole 16 L 10, 60.6 feet southwest of the center line of the highway, and 35 feet south of pole 460. A standard disk, stamped "Z 22 1933" and set in the top of a concrete post projecting about 4 inches above ground. (9.789 meters or 32.116 feet.)

A 23.—In Highlands County, about 16.9 miles west along State Highway 8 from the city hall at **Okeechobee**, Okeechobee County, at **Brighton**, about 320 feet west of the entrance to the driveway of the Brighton Valley Hotel, 81 feet east of the center line of a road leading southwest to Lakeport, 31.4 feet south of the center line of the highway, and 6 feet north of pole 516 E 4. A standard disk, stamped "A 23 1933" and set in the top of a concrete post projecting about 5 inches above ground. (9.928 meters or 32.572 feet.)

B 23.—In Highlands County, about 18.7 miles west along State Highway 8 from the city hall at **Okeechobee**, Okeechobee County, about 550 feet west of a wooden bridge, at the west point of tangency of a curve, 21.9 feet north of the center line of the highway, and 7 feet north of the west end of the guard rail along the approach fill. A standard disk, stamped "B 23 1933" and set in the top of a concrete post projecting about 7 inches above ground. (9.556 meters or 31.352 feet.)

C 23.—In Highlands County, about 22.0 miles west along State Highway 8 from the city hall at **Okeechobee**, Okeechobee County, about 320 feet east of the middle of a wooden bridge, 22.8 feet south of the center line of the highway, and 8 feet south of the east end of the guard rail along the south side of the approach fill. A standard disk, stamped "C 23 1933" and set in the top of a concrete post projecting about 5 inches above ground. (10.235 meters or 33.579 feet.)

D 23.—In Highlands County, about 24.2 miles west along State Highway 8 from the city hall at **Okeechobee**, Okeechobee County, near an abandoned house and filling station, near the west one of two large groups of palm trees, 25.5 feet south of the center line of the highway, and 4 feet north of a pole. A standard disk, stamped "D 23 1933" and set in the top of a concrete post projecting about 5 inches above ground. (10.560 meters or 34.646 feet.)

E 23.—In Highlands County, about 26.6 miles west along State Highway 8 from the city hall at **Okeechobee**, Okeechobee County, about 325 feet east of a wooden bridge, at the east end of the north guard fence of the approach fill, 18.6 feet north of the center line of the highway, and 3 feet northeast of the end post of the guard fence. A standard disk, stamped "E 23 1933" and set in the top of a concrete post projecting about 5 inches above ground. (10.261 meters or 33.665 feet.)

F 23.—In Highlands County, about 29.2 miles west along State Highway 8 from the city hall at **Okeechobee**, Okeechobee County, about 3.4 miles east of the Atlantic Coast Line Railroad crossing at **Childs**, about half-way up the first hill on the rise from Okeechobee Basin, about 550 feet west of a frame house with a filling station in front, 33 feet south of the center line of the highway, and 5 feet southeast of a pole. A standard disk, stamped "F 23 1933" and set in the top of a concrete post projecting about 5 inches above ground. (22.745 meters or 74.623 feet.)

G 23.—About 0.4 mile east along State Highway 8 from the Atlantic Coast Line Railroad crossing at **Childs**, Highlands County, about 0.2 mile east of the east point of curvature of a curve, at the west end of a slight sidehill cut, about 100 feet southwest of power-transmission pole 33 L 9, 30.0 feet south of the center line of the highway, and 5 feet southeast of a pole. A standard disk, stamped "G 23 1933" and set in the top of a concrete post projecting about 4 inches above ground. (36.462 meters or 119.626 feet.)

H 23.—About 0.1 mile east along State Highway 8 from Atlantic Coast Line Railroad crossing at **Childs**, Highlands County, at the fork of State Highways 8 and 67, about 142 feet south of power-transmission pole 33 L 14, 65 feet south of the center line of State Highway 8, and 31.5 feet west of State Highway 67. A standard disk, stamped "H 23 1933" and set in the top of a concrete post projecting about 4 inches above ground. (35.763 meters or 117.332 feet.)

J 23.—In Highlands County, about 31.1 miles east along State Highway 18 from the Atlantic Coast Line Railroad station at **Arcadia**, De Soto County, at **Childs**, at the railroad crossing, at the road forks, about 198 feet east of power-transmission pole 33 L 16, 32 feet north of the center line of the highway, and 21.2 feet east of the east rail. A standard disk, stamped "J 23 1933" and set in the top of a concrete post projecting about 3 inches above ground. (35.405 meters or 116.158 feet.)

K 23.—In Highlands County, about 28.6 miles east along State Highway 18 from the Atlantic Coast Line Railroad station at **Arcadia**, De Soto County, about 2.6 miles west of the railroad crossing at **Childs**, about 400 feet west of the west end of a cut, about 170 feet west of power-transmission pole 36 L 7, and 15.2 feet north of the center line of the highway, in the top of the north concrete head wall of a concrete culvert over a ditch, and 4.0 feet east of the west end of the head wall. A standard disk, stamped "K 23 1933." (43.105 meters or 141.420 feet.)

L 23.—In Highlands County, about 26.0 miles east along State Highway 18 from the Atlantic Coast Line Railroad station at **Arcadia**, De Soto County, about 5.2 miles west of the railroad crossing at **Childs**, about 0.4 mile west of a wooden bridge, 5 feet east of power-transmission pole 38 L 15, and 39.6 feet north of the center line of the highway. A standard disk, stamped "L 23 1933" and set in the top of a concrete post projecting about 4 inches above ground. (28.396 meters or 93.163 feet.)

M 23.—In Highlands County, about 24.0 miles east along State Highway 18 from the Atlantic Coast Line Railroad station at **Arcadia**, De Soto County, about 0.1 mile west of a wooden bridge, at the west end of the guard fence

on the west approach fill, about 300 feet east of the east point of curvature of a long reverse curve, about 100 feet west of power-transmission pole 40 L 14, and 66 feet north of the center line of the highway. A standard disk, stamped "M 23 1933" and set in the top of a concrete post projecting about 5 inches above ground. (25.798 meters or 84.639 feet.)

N 23.—In Highlands County, about 21.3 miles east along State Highway 18 from the Atlantic Coast Line Railroad station at Arcadia, De Soto County, about 310 feet west of the middle of a wooden bridge, about 145 feet west of power-transmission pole 43 L 7, and 40.0 feet north of the center line of the highway. A standard disk, stamped "N 23 1933" and set in the top of a concrete post projecting about 6 inches above ground. (25.455 meters or 83.514 feet.)

P 23.—In Highlands County, about 19.2 miles east along State Highway 18 from the Atlantic Coast Line Railroad station at Arcadia, De Soto County, about 180 feet west of power-transmission pole 45 L 8, about 100 feet west of the middle of a small pond, and 43.4 feet north of the center line of the highway. A standard disk, stamped "P 23 1933" and set in the top of a concrete post projecting about 6 inches above ground. (26.134 meters or 85.741 feet.)

Q 23.—About 16.7 miles east along State Highway 18 from the Atlantic Coast Line Railroad station at Arcadia, De Soto County, about 175 feet east of power-transmission pole 47 L 15, and 54.8 feet north of the center line of the highway. A standard disk, stamped "Q 23 1933" and set in the top of a concrete post projecting about 5 inches above ground. (25.920 meters or 85.039 feet.)

R 23.—About 14.5 miles east along State Highway 18 from the Atlantic Coast Line Railroad station at Arcadia, De Soto County, about 0.4 mile west of a wooden bridge, on the west slope of a slight broad knoll covered with scrub oak, 39.8 feet north of the center line of the highway, and 10 feet west of power-transmission pole 49 L 16. A standard disk, stamped "R 23 1933" and set in the top of a concrete post projecting about 6 inches above ground. (26.016 meters or 85.354 feet.)

S 23.—About 11.8 miles east along State Highway 18 from the Atlantic Coast Line Railroad station at Arcadia, De Soto County, near the northeast corner of Dorr Field, about 300 feet east of the center of the railroad crossing, 67.0 feet north of the center line of the highway, and 27 feet north of power-transmission pole 52 L 12. A standard disk, stamped "S 23 1933" and set in the top of a concrete post projecting about 4 inches above ground. (23.038 meters or 75.584 feet.)

T 23.—About 9.2 miles east along State Highway 18 from the Atlantic Coast Line Railroad station at Arcadia, De Soto County, about 0.2 mile east of a general store and filling station, about 150 feet northwest of the middle of a wooden bridge, 42.3 feet north of the center line of the highway, and 15 feet west of power-transmission pole 55 L 3. A standard disk, stamped "T 23 1933" and set in the top of a concrete post projecting about 5 inches above ground. (21.863 meters or 71.729 feet.)

U 23.—About 6.7 miles east along State Highway 18 from the Atlantic Coast Line Railroad station at Arcadia, De Soto County, at the junction of an asphalt road leading south along the eastern edge of a citrus grove, about 130 feet southeast of power-transmission pole 57 L 10, 53.2 feet south of the highway, and 37.0 feet east of the road. A standard disk, stamped "U 23 1933" and set in the top of a concrete post projecting about 3 inches above ground. (21.015 meters or 68.947 feet.)

V 23.—About 3.7 miles east along State Highway 18 from the Atlantic Coast Line Railroad station at Arcadia, De Soto County, at the junction of a dirt road leading south, at the entrance to a subdivision, about 150 feet southwest of power-transmission pole 60 L 7, 41.5 feet south of the center line of the highway, 27 feet west of the center line of the dirt road, and 8 feet south of a stucco gateway west of the dirt road. A standard disk, stamped "V 23 1933" and set in the top of a concrete post projecting about 3 inches above ground. (18.795 meters or 61.663 feet.)

W 23.—At Arcadia, De Soto County, on State Highway 18, about 1.1 miles east of the Atlantic Coast Line Railroad station, at the forks of State Highways 2 and 18, about 170 feet east of a graded road leading south, 78 feet northwest of the center of the junction, 31.7 feet north of the center line of Oak Street, and 18 feet northwest of a pole. A standard disk, stamped "W 23 1933" and set in the top of a concrete post projecting about 3 inches above ground. (19.815 meters or 65.010 feet.)

X 23.—At Arcadia, De Soto County, at the Atlantic Coast Line Railroad passenger station, at the Oak Street crossing, in the northwest corner of a park across the tracks from the station, 54 feet northeast of the northeast corner of the brick station, 33 feet south of the center line of Oak Street, 8.2 feet east of the east rail of the main track, and 2 feet southeast of a white concrete post of a chain fence around the park. A standard disk, stamped "X 23 1933" and set in the top of a concrete post projecting about 2 inches above ground. (18.725 meters or 61.434 feet.)

ARCADIA.—At Arcadia, De Soto County, in the front yard of the county courthouse, 82.0 feet north of the center line of Oak Street, and 44.6 feet south of the southeast corner of the building, in the top of the northwest corner of the concrete base of a flagpole, 20 inches northwest of the bottom of the pole. A standard disk, stamped "ARCADIA 1932." (19.559 meters or 64.170 feet.)

Y 23.—At Arcadia, De Soto County, on the Atlantic Coast Line Railroad, about 0.2 mile south of the passenger station, at a street crossing, about 82 feet north of the northeast corner of the packing plant of American Fruit Growers, Inc., 70.4 feet north of the north rail of the Seaboard Air Line Railway spur track to the plant, 47.6 feet west of the west rail of the Atlantic Coast Line Railroad main track, 33 feet north of the center line of the street, and 18.6 feet west of the west rail of the west sidetrack of the Atlantic Coast Line Railroad. A standard disk, stamped "Y 23 1933" and set in the top of a concrete post projecting about 3 inches above ground. (17.421 meters or 57.155 feet.)

Z 23.—About 2.7 miles south along the Atlantic Coast Line Railroad from the station at Arcadia, De Soto County, about 825 feet north of milepost F 49, at a dirt-road crossing, 41.3 feet southeast of the south end of a vitrified clay pipe culvert, 35 feet southeast of the center of the crossing, and 29.4 feet east of the east rail. A standard disk, stamped "Z 23 1933" and set in the top of a concrete post projecting about 5 inches above ground. (12.283 meters or 40.298 feet.)

A 24.—About 4.9 miles south along the Atlantic Coast Line Railroad from the station at Arcadia, De Soto County, about $\frac{1}{2}$ mile south of the station at Nocatee, about 330 feet south of milepost F 47, at a dirt-road crossing, about 120 feet west of the center line of United States Highway 17, 51 feet southwest of the center of the crossing, 27.2 feet west of the west rail, and 24 feet south of the crossing-warning sign. A standard disk, stamped "A 24 1933" and set in the top of a concrete post projecting about 5 inches above ground. (12.161 meters or 39.898 feet.)

B 24.—About 3.3 miles northeast along the Atlantic Coast Line Railroad from the station at Fort Ogden, De Soto County, about 800 feet south of the south end of a fruit packing house, about 175 feet south of the center of the crossing of a paved road leading west to Hull, 56.8 feet southeast of the east rail, 30 feet northwest of the center line of United States Highway No. 17, and 6 feet northeast of a pole. A standard disk, stamped "B 24 1933" and set in the top of a concrete post projecting about 5 inches above ground. (14.288 meters or 46.877 feet.)

C 24.—At Fort Ogden, De Soto County, about $\frac{1}{2}$ mile northeast of the Atlantic Coast Line Railroad station, at Seaboard Air Line Railway crossing, 74.6 feet southwest of the west rail of the Seaboard Air Line Railway, 54.4 feet southeast of the east rail of the Atlantic Coast Line Railroad, 27 feet northwest of the center line of United States Highway No. 17, and 4 feet north of a pole. A standard disk, stamped "C 24 1933" and set in the top of a concrete post projecting about 6 inches above ground. (12.191 meters or 39.997 feet.)

D 24.—About 2.8 miles south along the Atlantic Coast Line Railroad from the station at Fort Ogden, De Soto County, about 1 mile south of Southfort (junction of line from Sarasota), at a dirt-road crossing, 54.0 feet east of the east rail, and 33 feet north of the center line of the road. A standard disk, stamped "D 24 1933" and set in the top of a concrete post projecting about 5 inches above ground. (8.158 meters or 26.765 feet.)

E 24.—In Charlotte County, about 5.8 miles south along the Atlantic Coast Line Railroad from the station at Fort Ogden, De Soto County, about 1,350 feet north of milepost F 35, at a graded dirt-road crossing, about 200 feet south of the east end of a pipe culvert with a stone head wall, 54.9 feet east of the east rail, and 45 feet north of the center line of the road. A standard disk, stamped "E 24 1933" and set in the top of a concrete post projecting about 4 inches above ground. (4.180 meters or 13.714 feet.)

F 24.—About 5.7 miles east along the Atlantic Coast Line Railroad from the station at **Punta Gorda**, Charlotte County, about 1.3 miles northeast of **Cleveland**, about 1,254 feet southwest of milepost F 33, at a marl-road crossing, about 400 feet southwest of the point of curvature of a curve, 54.3 feet southeast of the east rail, and 39 feet south of the center line of the road. A standard disk, stamped "F 24 1933" and set in the top of a concrete post projecting about 6 inches above ground. (1.600 meters or 5.249 feet.)

G 24.—About 4.4 miles east along the Atlantic Coast Line Railroad from the station at **Punta Gorda**, Charlotte County, at **Cleveland**, about 130 feet east of the east end of the station, 72 feet east of the center line of the highway, 31.7 feet north of the north rail of the main track, and 10 feet west of a pole. A standard disk, stamped "G 24 1933" and set in the top of a concrete post projecting about 4 inches above ground. (2.028 meters or 6.654 feet.)

H 24.—About 2.0 miles east along the Atlantic Coast Line Railroad from the station at **Punta Gorda**, Charlotte County, about 412 feet east of milepost F 29, at the crossing of United States Highway No. 17, 35.6 feet north of the north rail, 35 feet east of the center line of the highway, 25 feet northeast of the east head wall of a concrete culvert, and 12 feet southeast of a pole. A standard disk, stamped "H 24 1933" and set in the top of a concrete post projecting about 5 inches above ground. (2.022 meters or 6.634 feet.)

For additional bench marks in the vicinity of Punta Gorda, see pages 94 and 95.

LINE 14, MAYPORT TO MIAMI, FLA.

[First-order leveling]

This line follows the Florida East Coast Railway from Mayport to Jacksonville, the Atlantic Coast Line Railroad from Jacksonville to Palatka, and the Florida East Coast Railway from Palatka to Miami. The field work was done, during the winter of 1932-33, by a party in charge of A. L. Wardwell, aid.

Tidal 11.—At **Mayport**, Duval County, on the St. Johns River, on Ocean Street, about 150 yards southwest of the Corps of Engineers, United States Army, warehouse, in front of J. L. Gavigan's general store, in the top of the northwest corner of the concrete base of a gasoline pump. A standard disk. (2.030 meters or 6.660 feet.)

Tidal 15.—At **Mayport**, Duval County, on the St. Johns River, on Henry Street, on the Corps of Engineers, United States Army, reservation, about 45 feet from the river, 37.5 feet west of the northwest corner of the dwelling occupied by H. H. Williams, 28 feet north of the northwest corner of a garage, and about 1 foot underground. A standard disk, stamped "NO. 15" and set in the top of a concrete post. (1.250 meters or 4.101 feet.)

Tidal 14.—At **Mayport**, Duval County, on the St. Johns River, on the Corps of Engineers, United States Army, reservation, 29.5 feet south of a point 43 feet west of the southwest corner of the warehouse, 2 feet east of the river bank, and 1 foot underground. A standard disk, stamped "NO. 14" and set in the top of a concrete post. (1.160 meters or 3.806 feet.)

Tidal 9 (U.S.E.).—At **Mayport**, Duval County, on the St. Johns River, on the Corps of Engineers, United States Army, reservation, 1 foot south of a point 3.4 feet east of the northeast corner of the warehouse, and 1 foot below the surface of the ground. An iron cap, riveted on the top of a 1-inch galvanized iron pipe set in the top of a concrete-filled terra cotta pipe. (1.262 meters or 4.140 feet.)

Tidal 12.—At **Mayport**, Duval County, on the St. Johns River, about 60 feet from the corner of Ocean Street and Palmer Avenue, on the northeast side of Palmer Avenue, in the top of the retaining wall in front of Capt. Fred Torrible's boarding house. A standard disk. (2.396 meters or 7.861 feet.)

Tidal 13.—At **Mayport**, Duval County, on the St. Johns River, about 300 yards from the intersection of Ocean Street and Palmer Avenue, on the northeast side of Palmer Avenue, in the top of the northwest end of the second step of Public School 32. A standard disk, stamped "8.022." (2.445 meters or 8.022 feet.)

5 (U.S.B.L.).—At **Mayport**, Duval County, about 700 yards east of the intersection of Ocean Street and Palmer Avenue, and 33 feet south of the center

line of the road, in the northeast corner of Anna B. Daniel's lot. The highest point on the top of a granite post projecting 2½ feet above ground. (2.103 meters or 6.900 feet.)

2 (U.S.B.L.).—At **Mayport**, Duval County, about ¾ mile east of the intersection of Ocean Street and Palmer Avenue, 29 feet east of a point 24 feet north of the northeast corner of the house owned by Joe Daniel, and 22 feet south of the center line of Palmer Avenue. The highest point on the top of a granite post projecting about 1½ feet above ground. (1.214 meters or 3.983 feet.)

5 (F.S.R.D.).—Destroyed. (3.484 meters or 11.430 feet.)

A 30.—About 3 miles southeast along the Florida East Coast Railway from **Mayport**, Duval County, 78 feet north of milepost 23, at the crossing of a dirt road leading to the beach, about 300 yards west of the beach, 36 feet east of the center line of the track, and 15 feet north of the center line of the road. A standard disk, stamped "A 30 1932" and set in the top of a concrete post. (2.510 meters or 8.235 feet.)

4 (F.S.R.D.).—About 3 miles southeast along the Florida East Coast Railway from **Mayport**, Duval County, opposite milepost 23, on the west side of the track, in the top of the north wooden support for a spare rail. A 10-penny nail. (3.481 meters or 11.421 feet.)

3 (F.S.R.D.).—About 2 miles north along the Florida East Coast Railway from **Atlantic Beach**, Duval County, in the top of wooden milepost 22. A 10-penny nail. (4.911 meters or 16.112 feet.)

2 (F.S.R.D.).—About 1 mile north along the Florida East Coast Railway from **Atlantic Beach**, Duval County, in the top of wooden milepost 21. A 10-penny nail. (4.858 meters or 15.938 feet.)

1 (U.S.E.)=1 (F.S.R.D.).—At **Atlantic Beach**, Duval County, on the property of the Atlantic Beach Inn, 20 feet east of the standpipe, and 17 feet west of the reservoir, on the top of the flange of the north ell of a 6-inch pipe line in the artesian well. A chiseled cross. (5.972 meters or 19.593 feet.)

5 (U.S.E.).—At **Atlantic Beach**, Duval County, on the property of the Atlantic Beach Inn, in the court between the middle and south wings of the hotel, 1.4 feet south of the southwest corner of an offset in the middle wing. A brass plug, set in the top of a concrete post. (5.173 meters or 16.972 feet.)

6 (U.S.E.).—At **Atlantic Beach**, Duval County, on the property of the Atlantic Beach Inn, in the court between the middle and south wings of the hotel, 2 feet south of a point 5 feet west of the northwest corner of an offset in the middle wing. A brass plug, set in the top of a concrete post. (5.055 meters or 16.585 feet.)

4 (U.S.E.).—At **Atlantic Beach**, Duval County, on the property of the Atlantic Beach Inn, 6 feet south of a point 38 feet west of the southeast corner of the south wing of the hotel, 33 feet west of the center line of the beach road, and 58 (5.8?) feet north of a cast-iron ornamental light post. A brass plug, set in the top of a concrete post. (5.136 meters or 16.850 feet.)

B 30.—At **Atlantic Beach**, Duval County, on the Florida East Coast Railway, at the grade crossing of State Highway 78, 45 feet west of the center line of the track, and 33 feet north of the center line of the highway. A standard disk, stamped "B 30 1932" and set in the top of a concrete post. (3.830 meters or 12.566 feet.)

63 (F.S.R.D.).—At **Atlantic Beach**, Duval County, at the end and on the north side of State Highway 78, at the retaining wall on the north side of Atlantic Boulevard, on the top of the southwest corner of the concrete coping. A chiseled cross. (4.260 meters or 13.976 feet.)

61 (F.S.R.D.).—At **Jacksonville Beach**, Duval County, at the southwest corner of Second Street and Pablo Avenue, at the city hall, on the top of the lower concrete step to the north entrance, 0.2 foot west of the northeast corner of the step. A chiseled cross. (3.367 meters or 11.047 feet.)

C 30.—At **Jacksonville Beach**, Duval County, about 50 yards southwest of the Florida East Coast Railway station, 75 feet west of the center line of Third Street, 51 feet north of the center line of Pablo Avenue, and 31 feet southeast of the center line of the track. A standard disk, stamped "C 30 1932" and set in the top of a concrete post. (3.297 meters or 10.817 feet.)

R. M. Pablo No. 2.—About 1 mile west along the Florida East Coast Railway from **Jacksonville Beach**, Duval County, 67 feet south of the center line of the track, and 10 feet east of the center line of a dirt road. A standard reference-mark disk, set in the top of a concrete post. (5.443 meters or 17.858 feet.)

59 (F.S.R.D.).—Destroyed. (2.653 meters or 8.704 feet.)

9.3 (U.S.G.S.).—Destroyed. (2.782 meters or 9.127 feet.)

9.3 RESET (U.S.E.).—About 2¼ miles west along the Florida East Coast Railway from **Jacksonville Beach**, Duval County, near the station at **San Pablo**, at the northeast angle of a dirt-road crossing. A United States Geological Survey standard disk, stamped "9.3" and set in the top of a concrete post. (9.426 feet.)

NOTE.—This bench mark was established and its elevation determined by the Corps of Engineers, United States Army, in July 1933.

D 30.—About 2¼ miles west along the Florida East Coast Railway from **Jacksonville Beach**, Duval County, 86 feet west of the west end of the station at **San Pablo**, 80 feet east of the center of a road crossing, and 36 feet north of the center line of the track. A standard disk, stamped "D 30 1932" and set in the top of a concrete post. (2.839 meters or 9.314 feet.)

E 30.—About 6½ miles west along the Florida East Coast Railway from **Jacksonville Beach**, Duval County, 86 feet east of the east end of the station at **Center Park**, 37 feet north of the center line of the track, and 30 feet east of the center of a grade crossing. A standard disk, stamped "E 30 1932" and set in the top of a concrete post. (12.616 meters or 41.391 feet.)

F 30.—About 4½ miles east along the Florida East Coast Railway from **South Jacksonville**, Duval County, in line with the west end of the station at **Hogan**, about 140 yards east of milepost 6, 45 feet east of the center of a grade crossing, and 34 feet north of the center line of the track. A standard disk, stamped "F 30 1932" and set in the top of a concrete post. (7.026 meters or 23.051 feet.)

G 30.—At the east side of **South Jacksonville**, Duval County, on the Florida East Coast Railway, at the intersection of **Hogan Road** and **Atlantic Boulevard** (State Highway 78), 29 feet north of the center line of **Hogan Road**, 29 feet southeast of the center line of **Atlantic Boulevard**, 14.5 feet south of the center line of the track, and 10.5 feet northwest of a railroad crossing signal. A standard disk, stamped "G 30 1932" and set in the top of a concrete post. (7.712 meters or 25.302 feet.)

Spur line to tidal bench marks at Jacksonville.

For additional bench marks in the vicinity of Jacksonville, see pages 8, 10, and 18.

H 30.—At **Jacksonville**, Duval County, at the corner of **Ocean** and **Forsyth Streets**, at the city hall, in the face of the north newel post of the **Ocean Street** entrance, about 4½ feet above the sidewalk. A standard disk, stamped "H 30 1932" and set vertically. (5.181 meters or 16.998 feet.)

Tidal 3 (U.S.E.).—At **Jacksonville**, Duval County, at the west side of the old armory, on the south side of the portico, on the top of the west end of the lower stone step, 1 foot east of the west edge, and 0.1 foot from the south edge. A chiseled square. (6.444 meters or 21.142 feet.)

Tidal 1 (U.S.E.).—At **Jacksonville**, Duval County, at the northeast corner of **Bay** and **Market Streets**, at 301 **East Bay Street**, on the south side of the **Covington Building**, on the southwest corner of a granite doorsill, 0.1 foot from the west edge, and 0.1 foot from the south edge. A chiseled square. (3.678 meters or 12.067 feet.)

5 (City of Jacksonville).—At **Jacksonville**, Duval County, at the northeast corner of **Market** and **Duval Streets**. (9.779 meters or 32.083 feet.)

NOTE.—For additional information concerning the location and character of this bench mark, consult the city engineer of Jacksonville.

JACKSONVILLE NO. 1.—At **Jacksonville**, Duval County, near the intersection of **Main** and **Phelps Streets**, in **Confederate Park**, 55 feet east of the east curb line of **Main Street**, 23 feet south of the south curb of **Phelps Street**, and 16 feet northwest of the northwest corner of **Burns Monument**. A standard disk, stamped "JACKSONVILLE NO. 1 1932" and set in the top of a concrete post. (2.488 meters or 8.163 feet.)

Tidal 5.—At **Jacksonville**, Duval County, on the **St. Johns River**, on **Tallyrand Avenue**, in the top of the north curb of the driveway to the municipal warehouse, about 2 feet east of the east face of the warehouse, in line with the south face. A standard disk, stamped "NO. 5 1928." (4.722 meters or 15.492 feet.)

Tidal X (U.S.E.).—At **Jacksonville**, Duval County, on the **St. Johns River**, south of the intersection of **Tallyrand Avenue** and **Twentieth Street**, near **Fire**

Station 11, on the top of the northeast corner of the northeast concrete pier of the water tank. A chiseled cross. (3.565 meters or 11.696 feet.)

Tidal 4.—At Jacksonville, Duval County, on the St. Johns River, south of the intersection of Tallyrand Avenue and Twentieth Street, near Fire Station 11, in the top of the northeast corner of the southeast concrete pier of the water tank. A standard disk, stamped "NO. 4 1928." (3.567 meters or 11.703 feet.)

Tidal 3.—At Jacksonville, Duval County, on the St. Johns River, at the southwest corner of the intersection of Twenty-first Street and Tallyrand Avenue, in the top of the east corner of the concrete foundation of a gasoline filling station. A standard disk, stamped "NO. 3 1928." (4.237 meters or 13.901 feet.)

Tidal 6 (U.S.E.)—At Jacksonville, Duval County, on the St. Johns River, at the north side of the Corps of Engineers, United States Army, dredge depot warehouse, on the top of the west end of the concrete platform, near the southwest corner. A chiseled cross. (3.245 meters or 10.646 feet.)

Tidal 2.—At Jacksonville, Duval County, on the St. Johns River, at the north side of the Corps of Engineers, United States Army, dredge depot warehouse, in the top of the concrete platform, 1.5 feet west of the east end, and about 1 foot from the building. A standard disk, stamped "NO. 2 1928." (3.242 meters or 10.636 feet.)

Tidal 7 (U.S.E.)—At Jacksonville, Duval County, on the St. Johns River, at the Corps of Engineers, United States Army, dredge depot warehouse, at the east end of the building, on the top of the concrete doorsill, near the north side of the door. A chiseled cross. (3.268 meters or 10.722 feet.)

Tidal 1.—At Jacksonville, Duval County, on the St. Johns River, at the Corps of Engineers, United States Army, dredge depot, between the tracks of the dock railway, 10 feet west of the bulkhead, and about 5 feet south of the south face of the boathouse. A standard disk, stamped "NO. 1 1928." (2.234 meters or 7.329 feet.)

End of spur line.

JACKSONVILLE NO. 2.—At Jacksonville, Duval County, at Memorial Park, 63.2 feet southwest of the west post of the Riverside Avenue entrance, 30 feet southeast of the center line of Riverside Avenue, 8.9 feet southeast of a low wall surrounding the park, and about 6 feet east of the prolongation of the east property line of May Street. A standard disk, stamped "JACKSONVILLE NO. 2 1932" and set in the top of a concrete post. (2.585 meters or 8.481 feet.)

J 30.—At Jacksonville, Duval County, in the section of the town known as "Riverside," at the intersection of Post Street, McDuff Avenue, and the Atlantic Coast Line Railroad, 91 feet west-northwest of the intersection of the center lines of Post Street and the railroad, and 26.1 feet west of the west rail. A standard disk, stamped "J 30 1932" and set in the top of a concrete post. (7.811 meters or 25.627 feet.)

K 30.—At Jacksonville, Duval County, on the Atlantic Coast Line Railroad, at the city limits, at San Juan Street, 49 feet south of the center line of the street, and 12 feet west of the west rail. A standard disk, stamped "K 30 1932" and set in the top of a concrete post. (4.349 meters or 14.268 feet.)

L 30.—About 8 miles south along the Atlantic Coast Line Railroad from Jacksonville, Duval County, at Venetia, about 39 rails south of milepost 8, at the intersection of State Highway 3 and Timuquand Road, 31 feet north of the center line of Timuquand Road, and 16 feet east of the east rail. A standard disk, stamped "L 30 1932" and set in the top of a concrete post. (2.259 meters or 7.411 feet.)

N 30.—In Duval County, about 8 miles north along the Atlantic Coast Line Railroad from Orange Park, Clay County, 7 feet west of milepost 11, and about 14 feet west of the west rail. A standard disk, stamped "M 30 1932" and set in the top of a concrete post. (5.638 meters or 18.497 feet.)

N 30.—At Orange Park, Clay County, about 40 yards southwest of the Atlantic Coast Line Railroad station, 3 feet east of milepost 14, and 15 feet west of the west rail of the main track. A standard disk, stamped "N 30 1932" and set in the top of a concrete post. (5.124 meters or 16.811 feet.)

P 30.—About 3 miles south along the Atlantic Coast Line Railroad from Orange Park, Clay County, about 275 feet south of milepost 17, at a dirt-road crossing, 30.6 feet west of the west rail, and 29.8 feet north of the center line of the road. A standard disk, stamped "P 30 1932" and set in the top of a concrete post. (8.191 meters or 26.873 feet.)

Q 30.—About 1 mile north along the Atlantic Coast Line Railroad from **Doctor's Inlet**, Clay County, about 350 feet north of the siding switch at the Columbus Brick Co. plant, at a dirt-road crossing, 44 feet west of the west rail, and 13 feet south of the center line of the road. A standard disk, stamped "Q 30 1932" and set in the top of a concrete post. (2.652 meters or 8.701 feet.)

R 30.—About $\frac{1}{2}$ mile north along the Atlantic Coast Line Railroad from **Russell**, Clay County, about 250 yards south of milepost 23, about 50 yards east of a cabin owned by P. Truo, 71 feet south of a pole, and 32 feet west of the center line of the track. A standard disk, stamped "R 30 1932" and set in the top of a concrete post. (4.970 meters or 16.306 feet.)

S 30.—About $3\frac{3}{4}$ miles north along the Atlantic Coast Line Railroad from **Green Cove Springs**, Clay County, 18 feet west of milepost 26, $48\frac{1}{2}$ feet west of the center line of the track, and 15 feet east of the center line of a dirt road. A standard disk, stamped "S 30 1932" and set in the top of a concrete post. (6.215 meters or 20.390 feet.)

T 30.—At the north side of **Green Cove Springs**, Clay County, on the Atlantic Coast Line Railroad, about 33 yards south of milepost 29, about 150 yards west of the **Green Cove Springs** colored school, 43 feet west of the center line of the main track, and 28 feet north of the center line of **Wauburgh Avenue**. A standard disk, stamped "T 30 1932" and set in the top of a concrete post. (4.675 meters or 15.338 feet.)

Green Cove Springs, top of east rail in front of the Atlantic Coast Line Railroad station. (22.5 feet.)

T.B.M. 74.—At **Green Cove Springs**, Clay County, on the Atlantic Coast Line Railroad, about 100 yards south of the station, and 8 feet west of the center line of the track, on the top of the northeast corner of the concrete base of signal tower 8731. A chiseled circle. (6.459 meters or 21.191 feet.)

P.T.S. 10 K (U.S.G.S.).—At **Green Cove Springs**, Clay County, in the county courthouse yard, 45 feet north of the northwest corner of the building, in line with the west side of the building, 21 feet west of the center of the main entrance, and 2 feet south of the edge of the sidewalk. A United States Geological Survey standard cap, stamped "PRIM. TRAV. STA. NO. 10 K" and riveted on the top of a $3\frac{1}{2}$ -inch iron pipe. (6.939 meters or 22.766 feet.)

U 30.—At **Green Cove Springs**, Clay County, in the north wall of the county courthouse, 13 feet west of the center of the main entrance, $7\frac{1}{2}$ feet east of the northwest corner of the building, and about 4 feet above the ground. A standard disk, stamped "U 30 1932" and set vertically. (8.184 meters or 26.850 feet.)

V 30.—About 4 miles south along the Atlantic Coast Line Railroad from **Green Cove Springs**, Clay County, at **Walkill**, about 47 yards north of the dirt-road crossing, 49.7 feet south of the southwest corner of the station, and 44.9 feet west of the west rail. A standard disk, stamped "V 30 1932" and set in the top of a concrete post. (5.779 meters or 18.900 feet.)

W 30.—About 3 miles north along the Atlantic Coast Line Railroad from **West Tocol**, Clay County, at **Leno**, about 220 feet south of milepost 37, and 28 feet west of the west rail. A standard disk, stamped "W 30 1932" and set in the top of a concrete post. (5.458 meters or 17.907 feet.)

X 30.—At **West Tocol**, Clay County, 39 feet south of the south end of the Atlantic Coast Line Railroad station, 89 feet south of the center of a road crossing, and 39.8 feet west of the west rail. A standard disk, stamped "X 30 1932" and set in the top of a concrete post. (1.814 meters or 5.951 feet.)

Y 30.—About 3 miles north along the Atlantic Coast Line Railroad from **Bostwick**, Putnam County, about 80 feet south of milepost 43, and 34.4 feet west of the west rail. A standard disk, stamped "Y 30 1932" and set in the top of a concrete post. (6.780 meters or 22.244 feet.)

Z 30.—At **Bostwick**, Putnam County, at the Atlantic Coast Line Railroad station, about 18 rails north of milepost 46, 64.3 feet west of the west rail of the main track, and 54 feet south of a road crossing. A standard disk, stamped "Z 30 1932" and set in the top of a concrete post. (10.920 meters or 35.827 feet.)

A 31.—About 3 miles south along the Atlantic Coast Line Railroad from **Bostwick**, Putnam County, about 200 feet north of milepost 49, and 44.5 feet west of the west rail. A standard disk, stamped "A 31 1932" and set in the top of a concrete post. (18.301 meters or 60.043 feet.)

B 31.—About 3 miles north along the Atlantic Coast Line Railroad from **Palatka**, Putnam County, about 17 rails north of milepost 52, at **Pecan**, about 100 feet south of a dirt-road crossing, and 44 feet west of the west rail. A

standard disk, stamped "B 31 1932" and set in the top of a concrete post. (4.327 meters or 14.196 feet.)

C 31.—At **Palatka**, Putnam County, at the intersection of the Atlantic Coast Line Railroad and the Florida East Coast Railway, 39 feet west of the west rail of the main track of the Atlantic Coast Line Railroad, and 18 feet north of the north rail of the main track of the Florida East Coast Railway. A standard disk, stamped "C 31 1932" and set in the top of a concrete post. (6.817 meters or 22.365 feet.)

19 (U.S.G.S.).—At **Palatka**, Putnam County, in the southwest corner of the county courthouse yard. A United States Geological Survey standard cap, stamped "19 PRIM. TRAV. STA. NO. 6" and riveted on the top of a 3½-inch iron pipe projecting about 2 feet above the ground. (5.737 meters or 18.822 feet.)

D 31.—At **Palatka**, Putnam County, at the city hall, 6 feet east of the center of the main entrance, in the face of the south wall, 4 feet above ground. A standard disk, stamped "D 31 1932" and set vertically. (6.267 meters or 20.561 feet.)

For additional bench marks in the vicinity of **Palatka**, see pages 37, 38, 51, and 52.

E 31.—At the south side of **East Palatka**, Putnam County, on the Florida East Coast Railway, about 150 yards south of the center line of the track to **St. Augustine**, 62 feet northeast of the center line of the main track to **Bunnell**, and 33 feet east of the center line of **State Highway 14**. A standard disk, stamped "E 31 1932" and set in the top of a concrete post. (5.002 meters or 16.411 feet.)

F 31.—About 2 miles southeast along the Florida East Coast Railway from **East Palatka**, Putnam County, 3 feet west of milepost 64, and 12½ feet south of the center line of the track. A standard disk, stamped "F 31 1932" and set in the top of a concrete post. (8.458 meters or 27.749 feet.)

G 31.—At **Yelvington**, St. Johns County, on the Florida East Coast Railway, about 182 feet southeast of the center of a grade crossing, about 150 feet southeast of the end of the station, and 36 feet west of the center line of the track. A standard disk, stamped "G 31 1932" and set in the top of a concrete post. (10.276 meters or 33.714 feet.)

H 31.—In **Flagler County**, about 4 miles southeast along the Florida East Coast Railway from **Yelvington**, St. Johns County, about ½ mile southeast of milepost 70, 45 feet east of the center of a grade crossing, 34 feet east of the west point of a switch, and 25 feet south of the center line of the track. A standard disk, stamped "H 31 1932" and set in the top of a concrete post. (5.616 meters or 18.425 feet.)

K 31.—At **Dinner Island**, **Flagler County**, on the Florida East Coast Railway, 45 feet southeast of the center of a grade crossing, and 11½ feet southwest of the center line of the track, in the top of the northeast corner of the 2- by 2-foot concrete foundation of the old mail-bag support. A standard disk, stamped "K 31 1932." (8.320 meters or 27.297 feet.)

L 31.—At **Neoga**, **Flagler County**, 21½ feet southeast of the southeast end of the Florida East Coast Railway station, and 42 feet southwest of the center line of the track. A standard disk, stamped "L 31 1932" and set in the top of a concrete post. (11.314 meters or 37.119 feet.)

J 31.—About 1 mile southeast along the Florida East Coast Railway from **Espanola**, **Flagler County**, 28 feet southeast of the center of a dirt-road crossing, about 50 yards southwest of the center line of **State Highway 189**, and 48½ feet southwest of the center line of the track. A standard disk, stamped "J 31 1932" and set in the top of a concrete post. (8.775 meters or 28.780 feet.)

M 31.—About 1 mile northwest along the Florida East Coast Railway from **Bunnell**, **Flagler County**, at mileage MJ 29.43, about 50 yards south of a grade crossing, 72 feet west of the center line of **State Highway 189**, and 9 feet west of the center line of the west track, in the top of a 2- by 2-foot concrete signal foundation. A standard disk, stamped "M 31 1932." (7.568 meters or 24.829 feet.)

N 31.—At **Bunnell**, **Flagler County**, about 65 yards south of the Florida East Coast Railway station, 8.8 feet east of the center line of the east track, in the top of the northwest corner of the 2- by 2-foot concrete foundation of a mail-bag rack. A standard disk, stamped "N 31 1932." (7.102 meters or 23.300 feet.)

P 31.—About $1\frac{1}{2}$ miles south along the Florida East Coast Railway from Bunnell, Flagler County, at mileage 88.15, 61 feet north of a pole, 50 feet west of the center line of United States Highway 1, and 34 feet east of the center line of the east track. A standard disk, stamped "P 31 1932" and set in the top of a concrete post. (5.824 meters or 19.108 feet.)

Q 31.—About $1\frac{1}{4}$ miles south along the Florida East Coast Railway from Dupont, Flagler County, at mileage 91.19, about 10 feet west of the west rail, in the top of the concrete head wall of a double 24-inch culvert, 1 foot south of the north end. A standard disk, stamped "Q 31 1932." (7.953 meters or 26.092 feet.)

R 31.—About 4.7 miles south along the Florida East Coast Railway from Dupont, Flagler County, at mileage 94.61, about 10 feet west of the west rail, in the top of the west head wall of a concrete culvert, 1 foot south of the north end. A standard disk, stamped "R 31 1932." (8.833 meters or 28.980 feet.)

S 31.—About 6.8 miles north along the Florida East Coast Railway from Ormond, Volusia County, about $\frac{1}{4}$ mile south of milepost 97, 38 feet south of the south end of the station at Harwood, 34 feet west of the center line of the west track, 27 feet south of the center of a grade crossing, 9 feet west of the center line of a dirt road, and 3 feet northeast of two poles. A standard disk, stamped "S 31 1932" and set in the top of a concrete post. (9.957 meters or 32.667 feet.)

T 31.—About 3 miles north along the Florida East Coast Railway from Ormond, Volusia County, about 225 yards south of milepost 101, 31.8 feet east of the center line of the east track, and $12\frac{1}{2}$ feet west of a pole, in the east borrow pit. A standard disk, stamped "T 31 1932" and set in the top of a concrete post. (4.611 meters or 15.128 feet.)

U 31.—At Ormond, Volusia County, about 104 feet south of the south end of the Florida East Coast Railway station, and 9 feet west of the center line of the west track, in the top of the northeast corner of the concrete foundation of the mail-bag rack. A standard disk, stamped "U 31 1932." (2.238 meters or 7.343 feet.)

Ormond, top of east rail opposite the Florida East Coast Railway station. (6.5 feet.)

V 31.—At Holly Hill, Volusia County, on the Florida East Coast Railway, at mileage 106.9, about 225 yards north of the street crossing at the south end of the station, and $9\frac{1}{2}$ feet west of the center line of the west track, in the top of the northeast corner of the concrete foundation of the mail-bag rack. A standard disk, stamped "V 31 1932." (1.797 meters or 5.896 feet.)

W 31.—At Daytona Beach, Volusia County, on the Florida East Coast Railway, 93 feet south of the prolongation of the south side of the station, on the west side of the track, 1 foot west of the west curb of the passenger walk. A standard disk, stamped "W 31 1932" and set in the top of a concrete post. (1.902 meters or 6.240 feet.)

Spur line to tidal bench marks at Daytona Beach.

X 31.—At Daytona Beach, Volusia County, in the park between Halifax River and North Beach Street, about 238 feet south of the center line of Broadway bridge, about 100 feet south of the south edge of the pavement on Bay Street, 42.4 feet northwest of the northwest corner of the fountain's masonry wall, 19.3 feet north of the center of the walk to the fountain, and 18.9 feet east of the east curb of North Beach Street. A standard disk, stamped "X 31 1932" and set in the top of a concrete post. (1.555 meters or 5.102 feet.)

Tidal 9.—At Daytona Beach, Volusia County, at the northeast corner of Main and Wild Olive Streets, on the Wild Olive Street side of the Atlantic Bank and Trust Co. Building, about 4 feet from the southwest corner of the building, in the top of the water table, about $3\frac{1}{2}$ feet above the sidewalk. A standard disk, stamped "9 1927." (4.637 meters or 15.213 feet.)

Tidal 6.—At Daytona Beach, Volusia County, on the south side of Main Street, at the corner of Grandview Avenue, at the East Coast Bank and Trust Co. Building, in the top of the foundation, at the base of the second pilaster east of the entrance, about 2 feet above the sidewalk. A standard disk, stamped "6." (4.702 meters or 15.623 feet.)

Tidal 4.—At Daytona Beach, Volusia County, on the east side of Coates Street, one-half block south of Main Street, in line with the sidewalk leading perpendicularly from Coates Street to the Gilbert Hotel, in the top of the curbstone. A standard disk, stamped "4." (3.313 meters or 10.869 feet.)

Tidal 5.—At **Daytona Beach**, Volusia County, on the east side of Coates Street, about 200 feet north of Main Street, in front of 147 Coates Street, about 4 feet south of the driveway leading into the gasoline filling station just north of a store, in the top of the curbstone. A standard disk, stamped "5." (3.150 meters or 10.335 feet.)

Tidal 8.—At **Daytona Beach**, Volusia County, on the east side of Atlantic Avenue, between Main Street and Auditorium Avenue, at the south side of the entrance to the Selden Building, in the top of the cement coping near a large pillar. A standard disk, stamped "8 1927." (5.043 meters or 16.545 feet.)

Tidal 3.—At **Daytona Beach**, Volusia County, at 5 North Atlantic Avenue, in front of the O. E. Grenell's Kodak Studio, 5 feet north of a pole, in the top of the curbing. A standard disk, stamped "3." (3.983 meters or 13.068 feet.)

Tidal 2.—At **Daytona Beach**, Volusia County, about 10 feet north of the northwest corner of Ocean Avenue and Main Street, in front of the Seaside Inn, in the top of the curbstone. A standard disk, stamped "2." (5.622 meters or 18.445 feet.)

Tidal 7.—At **Daytona Beach**, Volusia County, on the south side of Main Street, between Ocean Avenue and the shore, opposite the entrance to the Atlantic Cafe, in the top of the retaining wall. A standard disk, stamped "7 1927." (3.317 meters or 10.883 feet.)

Tidal 1.—At **Daytona Beach**, Volusia County, at the fishing pier owned by McMillan & Wright, in the top of the concrete loading platform, about 8 feet southwest of the northeast corner. A standard disk, stamped "1." (3.302 meters or 10.833 feet.)

End of spur line.

Y 31.—About 2 miles north along the Florida East Coast Railway from **Port Orange**, Volusia County, about 48 yards north of milepost 113, 60.5 feet north of a road crossing the track, and 25.9 feet west of the west rail. A standard disk, stamped "Y 31 1932" and set in the top of a concrete post. (3.461 meters or 11.355 feet.)

Z 31.—About 1 mile south along the Florida East Coast Railway from **Port Orange**, Volusia County, directly east of milepost 116, about 65 yards north of the center of a road crossing, and 28.6 feet east of the east rail. A standard disk, stamped "Z 31 1932" and set in the top of a concrete post. (3.327 meters or 10.915 feet.)

A 32.—About 6 miles north along the Florida East Coast Railway from **New Smyrna**, Volusia County, at milepost 119, in the top of the southeast corner of the concrete base of a semaphore. A standard disk, stamped "A 32 1932." (4.766 meters or 15.636 feet.)

B 32.—About 8 miles north along the Florida East Coast Railway from **New Smyrna**, Volusia County, about $\frac{1}{4}$ mile south of milepost 122, 40 feet west of the center line of a road parallel to the track, 27 feet east of the east rail, and 24 feet north of the center line of a road crossing the track. A standard disk, stamped "B 32 1932" and set in the top of a concrete post. (3.430 meters or 11.283 feet.)

C 32.—At **New Smyrna**, Volusia County, on the Florida East Coast Railway, in the north part of the yards, about 105 yards northeast of the northeast corner of the station, about 50 yards south of the center of the Canal Street crossing, 40.1 feet east of the east rail of the north-bound main track, and 39 feet southeast of semaphore 1246. A standard disk, stamped "C 32 1932" and set in the top of a concrete post. (2.506 meters or 8.222 feet.)

D 32.—At **New Smyrna**, Volusia County, in the Florida East Coast Railway yards, about 90 yards south of milepost 125, about 100 yards south of a water tank, in an angle of a branch leading to Orange City, and 32.2 feet west of the west rail of the main track. A standard disk, stamped "D 32 1932" and set in the top of a concrete post. (2.644 meters or 8.675 feet.)

For additional bench marks in the vicinity of New Smyrna, see page 41.

E 32.—At **New Smyrna**, Volusia County, on the Florida East Coast Railway, in the south end of the yards, about 48 yards northeast of semaphore 1254, 73.8 feet east of the east rail of the main track, and 59 feet east of the east rail of a siding. A standard disk, stamped "E 32 1932" and set in the top of a concrete post. (1.916 meters or 6.286 feet.)

F 32.—About 1 mile south along the Florida East Coast Railway from **Edge-water**, Volusia County, about 21 rails north of milepost 129, at a dirt-road crossing, 55.4 feet northwest of the center line of the road, and 28.9 feet west of the west rail. A standard disk, stamped "F 32 1932" and set in the top of a concrete post. (4.902 meters or 16.083 feet.)

G 32.—About 4½ miles north along the Florida East Coast Railway from **Oak Hill**, Volusia County, and about 22 rails north of milepost 132, at a dirt-road crossing, 27 feet west of the west rail. A standard disk, stamped "G 32 1932" and set in the top of a concrete post. (5.550 meters or 18.200 feet.)

H 32.—About 1.1 miles north along the Florida East Coast Railway from the station at **Oak Hill**, Volusia County, about 4½ rails north of a road crossing, and 36.2 feet east of the east rail. A standard disk, stamped "H 32 1932" and set in the top of a concrete post. (5.844 meters or 19.173 feet.)

J 32.—About 1.9 miles south along the Florida East Coast Railway from **Oak Hill**, Volusia County, about 400 feet north of the station at **Fullerton**, at the north end of the siding track, north of a road crossing, and 29.3 feet west of the west rail. A standard disk, stamped "J 32 1932" and set in the top of a concrete post. (1.905 meters or 6.250 feet.)

About 3 miles south of **Oak Hill**, top of rail at the crossing of the Florida East Coast Railway and State Highway 4. (8.0 feet.)

K 32.—About 4.6 miles south along the Florida East Coast Railway from **Oak Hill**, Volusia County, at a road crossing just south of bridge 140.53, and 14 feet east of the east rail. A standard disk, stamped "K 32 1932" and set in the top of a concrete post. (2.383 meters or 7.818 feet.)

L 32.—About 1.5 miles east along the road from **Scottsmoor**, Brevard County, at the crossing of the Florida East Coast Railway, at culvert 143.1, 30 feet north of the center of the crossing, and 11 feet east of the east rail. A standard disk, stamped "L 32 1932" and set in the top of a concrete post. (2.106 meters or 6.909 feet.)

M 32.—About 9 miles north along the Florida East Coast Railway from **Titusville**, Brevard County, in the top of the northwest corner of the concrete base of semaphore 145.6. A standard disk, stamped "M 32 1933." (2.030 meters or 6.660 feet.)

N 32.—About 5 miles north along the Florida East Coast Railway from **Titusville**, Brevard County, at a road crossing at the packing plant of the **Acme Fruit Co.**, 23.5 feet west of the west rail, and 12 feet north of the center line of the road. A standard disk, stamped "N 32 1933" and set in the top of a concrete post. (1.197 meters or 3.927 feet.)

P 32.—About 1.4 miles north along the Florida East Coast Railway from **Titusville**, Brevard County, 4.6 feet north of milepost 153, and 8.8 feet west of the west rail. A standard disk, stamped "P 32 1932" and set in the top of a concrete post. (1.943 meters or 6.375 feet.)

Titusville, top of east rail opposite the Florida East Coast Railway station. (14.2 feet.)

Q 32.—At **Titusville**, Brevard County, at the southwest corner of Pine and Palm Streets, at the east main entrance to the county courthouse, 18 feet north of the center of the entrance, in the top of the northeast corner of the base of the north column, about 2 feet above ground. A standard disk, stamped "Q 32 1932." (5.389 meters or 17.680 feet.)

R 32.—At **Indian River City**, Brevard County, about 825 feet south of the Florida East Coast Railway station, 38 feet north of the center line of the highway to Orlando, and 27.3 feet east of the east rail. A standard disk, stamped "R 32 1933" and set in the top of a concrete post. (5.648 meters or 18.530 feet.)

S 32.—About 3 miles south along the Florida East Coast Railway from **Indian River City**, Brevard County, about 150 feet north of milepost 161, and 27.6 feet east of the east rail. A standard disk, stamped "S 32 1933" and set in the top of a concrete post. (4.931 meters or 16.178 feet.)

T 32.—At **Delespine**, Brevard County, about 60 feet north of the Florida East Coast Railway station, at a road crossing, 32.5 feet west of the west rail. A standard disk, stamped "T 32 1933" and set in the top of a concrete post. (8.954 meters or 29.475 feet.)

W 32.—About 6 miles north along the Florida East Coast Railway from the station at **Cocoa-Rockledge**, Brevard County, about 155 feet south of the station at **Sharpes**, 11 feet east of the east rail, and 10 feet north of the switch

stand for a siding. A standard disk, stamped "W 32 1933" and set in the top of a concrete post. (10.545 meters or 34.596 feet.)

X 32.—About 3.5 miles north along the Florida East Coast Railway from the station at **Cocoa-Rockledge**, Brevard County, about 525 feet north of milepost 170, at a dirt-road crossing, about 55 feet west of the center line of United States Highway 1, 26 feet east of the east rail, and about 3 feet higher than the track. A standard disk, stamped "X 32 1933" and set in the top of a concrete post. (13.113 meters or 43.022 feet.)

Y 32.—About 0.5 mile north along the Florida East Coast Railway from the station at **Cocoa-Rockledge**, Brevard County, at a street crossing, 32 feet north of the center line of the street, and 29 feet west of the west rail. A standard disk, stamped "Y 32 1933" and set in the top of a concrete post. (7.769 meters or 25.489 feet.)

Z 32.—At **Cocoa-Rockledge**, Brevard County, about 126 feet south of the south end of the Florida East Coast Railway station, and 25.8 feet east of the center line of the east track. A standard disk, stamped "Z 32 1933" and set in the top of a concrete post. (7.491 meters or 24.577 feet.)

A 33.—About 2.8 miles south along the Florida East Coast Railway from the station at **Cocoa-Rockledge**, Brevard County, 27.3 feet east of the center line of the east track, and 3 feet west of a point 40.5 feet south of the southwest corner of the Young & Metzner Realty Co., Inc., packing plant. A standard disk, stamped "A 33 1933" and set in the top of a concrete post. (7.087 meters or 23.251 feet.)

B 33.—About 5.6 miles south along the Florida East Coast Railway from the station at **Cocoa-Rockledge**, Brevard County, about 270 yards south of milepost 179, near the north end of the siding at **Bonaventure**, 56 feet west of the center line of United States Highway 1, 43 feet south of a grade crossing, and 31 feet east of the center line of the east track. A standard disk, stamped "B 33 1933" and set in the top of a concrete post. (4.527 meters or 14.852 feet.)

C 33.—About 8.5 miles south along the Florida East Coast Railway from the station at **Cocoa-Rockledge**, Brevard County, about 75 yards south of milepost 182, about 50 yards south of a section foreman's dwelling, 50 feet east of the center line of the east track, and 35 feet south of a grade crossing. A standard disk, stamped "C 33 1933" and set in the top of a concrete post. (9.669 meters or 31.722 feet.)

D 33.—About 9 miles north along the Florida East Coast Railway from **Melbourne**, Brevard County, about 265 feet south of milepost 185, at a dirt-road crossing, 39.8 feet east of the center line of the east track, and 18 feet south of the center line of the road. A standard disk, stamped "D 33 1933" and set in the top of a concrete post. (8.453 meters or 27.733 feet.)

U 32.—About 6 miles north along the Florida East Coast Railway from **Melbourne**, Brevard County, about 275 yards south of milepost 188, 27.3 feet west of the center line of the west track, and 18 feet north of a dirt-road crossing. A standard disk, stamped "U 32 1933" and set in the top of a concrete post. (7.349 meters or 24.111 feet.)

Eau Gallie, top of east rail opposite the Florida East Coast Railway station. (18.7 feet.)

V 32.—About 3.5 miles north along the Florida East Coast Railway from **Melbourne**, Brevard County, about $\frac{1}{4}$ mile south of **Eau Gallie**, at bridge 190.47 over Eau Gallie Creek, in the top of the east end of the south abutment, 7.3 feet east of the east rail of the east track. A standard disk, stamped "V 32 1933." (5.600 meters or 18.373 feet.)

E 33.—At **Melbourne**, Brevard County, on the Florida East Coast Railway, about 155 feet south of the center line of the second paved street north of the station, and 10.9 feet east of the east rail of the east main track. A standard disk, stamped "E 33 1933" and set in the top of a concrete post. (6.621 meters or 21.722 feet.)

F 33.—About 3 miles south along the Florida East Coast Railway from **Melbourne**, Brevard County, about 30 yards north of milepost 197, 20.8 feet west of a point 45 feet north of the northwest corner of section foreman's dwelling 2605, 38.9 feet east of the center line of the east track, and 5 feet north of the northwest corner of the yard fence. A standard disk, stamped "F 33 1933" and set in the top of a concrete post. (6.650 meters or 18.537 feet.)

G 33.—About 6 miles south along the Florida East Coast Railway from **Melbourne**, Brevard County, about 60 yards north of milepost 200, about 101

feet south of the station at Malabar, 30 feet south of the center of a road crossing, and 16½ feet west of the center line of the west track. A standard disk, stamped "G 33 1933" and set in the top of a concrete post. (8.108 meters or 26.601 feet.)

H 33.—About 9 miles south along the Florida East Coast Railway from Melbourne, Brevard County, at milepost 203, 82 feet north of the northwest corner of the station at Valkaria, 22 feet north of the center line of the road, and 12 feet east of the east rail of the east track. A standard disk, stamped "H 33 1933" and set in the top of a concrete post. (2.490 meters or 8.169 feet.)

J 33.—At Grant, Brevard County, about 120 feet south of the Florida East Coast Railway station, 31 feet north of the center line of a paved road, and 11.3 feet east of the east rail. A standard disk, stamped "J 33 1933" and set in the top of a concrete post. (2.297 meters or 7.536 feet.)

K 33.—At Micco, Brevard County, 83.4 feet south of the Florida East Coast Railway station, 58 feet south of the center of a road crossing, 6.7 feet west of the west rail, and about 3 feet north of a mail-bag rack. A standard disk, stamped "K 33 1933" and set in the top of a concrete post. (7.150 meters or 23.458 feet.)

L 33.—About 2 miles north along the Florida East Coast Railway from Sebastian, Indian River County, at Roseland, about 50 yards north of a road crossing, at bridge 212.07 over San Sebastian River, 7.1 feet east of the east rail, in the top of the east end of the south concrete abutment. A standard disk, stamped "L 33 1933." (6.122 meters or 20.085 feet.)

M 33.—At Sebastian, Indian River County, 13.1 feet south of the north end of the Florida East Coast Railway station, 30 feet east of the center line of a street, and 16.4 feet west of the west rail of the west track. A standard disk, stamped "M 33 1933" and set in the top of a concrete post. (6.251 meters or 20.508 feet.)

N 33.—About 3¼ miles south along the Florida East Coast Railway from Sebastian, Indian River County, at mileage 217.65, 48 feet south of the center of a grade crossing, and 26.6 feet west of the west rail of the west track, in front of section foreman's dwelling 2389. A standard disk, stamped "N 33 1933" and set in the top of a concrete post. (6.466 meters or 21.214 feet.)

Wabasso, top of east rail of main track opposite the Florida East Coast Railway station. (17.9 feet.)

P 33.—About 6 miles north along the Florida East Coast Railway from Vero Beach, Indian River County, 15 feet north of milepost 221, 52 feet west of the center line of United States Highway 1, and 33.7 feet east of the center line of the east track. A standard disk, stamped "P 33 1933" and set in the top of a concrete post. (4.193 meters or 13.757 feet.)

Q 33.—About 3 miles north along the Florida East Coast Railway from Vero Beach, Indian River County, at mileage 224.1, opposite the south end of Vero Beach Kennel Club, 15 feet north of the center of a road crossing, 48 feet west of the center line of United States Highway 1, and 36 feet east of the center line of the east track. A standard disk, stamped "Q 33 1933" and set in the top of a concrete post. (4.495 meters or 14.747 feet.)

R 33.—Near the north side of Vero Beach, Indian River County, on the Florida East Coast Railway, opposite milepost 227, 50 feet south of the center of a road crossing, and 30 feet west of the center line of the west track. A standard disk, stamped "R 33 1933" and set in the top of a concrete post. (5.252 meters or 17.231 feet.)

VERO BEACH.—At Vero Beach, Indian River County, about 100 yards west of the Florida East Coast Railway, 36.9 feet west of the west curb line of Thirteenth Avenue, 10.8 feet north of the north curb of Twenty-first Street, and 17.6 feet south of the steel flagpole. A standard disk, stamped "VERO BEACH 1932" and set in the top of a concrete post. (4.383 meters or 14.380 feet.)

S 33.—At Vero Beach, Indian River County, about 125.2 feet south of the south end of the Florida East Coast Railway station, 35 feet north of the center of a grade crossing, and 11.1 feet east of the east rail of the east track. A standard disk, stamped "S 33 1933" and set in the top of a concrete post. (5.127 meters or 16.821 feet.)

T 33.—About 4 miles south along the Florida East Coast Railway from Vero Beach, Indian River County, at Oslo, at mileage 213.15, 45 feet north of the north end of the station, 25.3 feet east of the center line of the east track, and 17 feet north of the center of a grade crossing. A standard disk, stamped "T 33 1933" and set in the top of a concrete post. (4.573 meters or 15.003 feet.)

U 33.—In St. Lucie County, about 7 miles south along the Florida East Coast Railway from **Vero Beach**, Indian River County, at mileage 234.45, 56.3 feet southeast of the southeast corner of an old warehouse, 25.6 feet west of the center line of the west track, and 13 feet south of the center of a dirt-road crossing. A standard disk, stamped "U 33 1933" and set in the top of a concrete post. (3.704 meters or 12.152 feet.)

V 33.—About 5 miles north along the Florida East Coast Railway from **Fort Pierce**, St. Lucie County, about 72 yards south of milepost 237, 56 feet north of the center of a dirt-road crossing, 25 feet west of the center line of the west track, and 22 feet east of the center line of the old Dixie Highway. A standard disk, stamped "V 33 1933" and set in the top of a concrete post. (5.165 meters or 16.946 feet.)

W 33.—About 2 miles north along the Florida East Coast Railway from **Fort Pierce**, St. Lucie County, 15 feet north of a point 18 feet west of milepost 240, 28 feet east of the center line of the old Dixie Highway, and 27 feet west of the center line of the west track. A standard disk, stamped "W 33 1933" and set in the top of a concrete post. (2.470 meters or 8.104 feet.)

Tidal 4.—At **Fort Pierce**, St. Lucie County, just north of the entrance to the municipal docks and the causeway to the bridge, 3 feet from a cast-iron lamppost, in the concrete sidewalk on the west edge of the old Dixie Highway, 1.5 feet from the east edge. A standard disk, stamped "NO. 4 1930." (4.052 meters or 13.294 feet.)

Spur line to tidal bench marks at Fort Pierce.

Tidal 3.—At **Fort Pierce**, St. Lucie County, at the municipal docks, at the west end of the docking slip, in the top of the concrete bulkhead, 2 feet 9 inches from the south end, and 1 foot 5 inches from the east face. A standard disk, stamped "BM NO. 3 1930." (2.137 meters or 7.011 feet.)

Tidal 2.—At **Fort Pierce**, St. Lucie County, at the municipal docks, on the edge of the road from the old Dixie Highway to the municipal docks and causeway, 50 feet from the southwest corner of the municipal warehouse, and 15 feet north of the north edge of the road, in the top of a fire plug. The uppermost point of the valve nut. (2.563 meters or 8.409 feet.)

Tidal 1.—At **Fort Pierce**, St. Lucie County, at the municipal docks, in the east face of the concrete pillar supporting the extreme southeast corner of the municipal warehouse, 8 inches above the surface of filled-in land, and midway between the surface of the ground and the floor of the warehouse. A standard disk, stamped "NO. 1 1930" and set vertically. (1.742 meters or 5.715 feet.)

Tidal 2.—At **Fort Pierce Inlet**, St. Lucie County, at East Causeway Bridge, 46 feet east of the east end of the bridge, and 37 feet south of the center line of the asphalt road to Fort Pierce Casino, near a lone Australian pine tree. A standard disk, stamped "NO. 2 1930" and set in the top of a concrete post. (1.170 meters or 3.839 feet.)

Tidal 1.—At **Fort Pierce Inlet**, St. Lucie County, at East Causeway Bridge, about 100.3 feet north of the center line of the asphalt road to Fort Pierce Casino, at a point 45 feet west of the west end of the first long tangent east of the bridge, at the end of the filled-in ground extending toward the casino. A standard disk, stamped "NO. 1 1930" and set in the top of a concrete post. (1.333 meters or 4.373 feet.)

Tidal 2.—At **Fort Pierce Inlet**, St. Lucie County, at Binney Dock, about 10 feet from the tide gage on the outer edge of the concrete bulkhead, in the top of the end of the concrete retaining wall. A standard disk, stamped "NO. 2 1930." (1.263 meters or 4.144 feet.)

Tidal 1.—At **Fort Pierce Inlet**, St. Lucie County, at the breakwater, at the north end of the casino, in the concrete floor of the east porch. A standard disk, stamped "NO. 1 1930." (2.666 meters or 8.747 feet.)

7 (F.P.P.D.).—At **Fort Pierce Inlet**, St. Lucie County, at the breakwater, on the south side of the inlet, about northeast from the casino, and about 130 feet south of the water side of a rock fill. The top of a 1½-inch iron pipe, set in the top of a 10-inch sewer pipe filled with concrete and projecting about 14 inches above ground. (2.569 meters or 8.423 feet.)

R.M. 1.—At **Fort Pierce Inlet**, St. Lucie County, at Fort Pierce Beach, about 50 yards northeast of the Fort Pierce Casino, about 100 feet south of the rock wall along the south side of the inlet, and about 100 feet west of the bulkhead along beach. A standard reference-mark disk, set in the top of a concrete post. (2.379 meters or 7.805 feet.)

End of spur line.

Y 33.—At **Fort Pierce**, St. Lucie County, in the west face of the county courthouse, about 10 feet north of the main entrance, and about $3\frac{1}{2}$ feet above the sidewalk. A standard disk, stamped "Y 33 1933" and set vertically. (5.703 meters or 18.711 feet.)

X 33.—At **Fort Pierce**, St. Lucie County, about 163 feet south of the Florida East Coast Railway station, 12.6 feet east of the east rail of the north-bound main track, and about 3 feet south of a fence around the station yard. A standard disk, stamped "X 33 1933" and set in the top of a concrete post. (7.243 meters or 23.763 feet.)

For additional bench marks in the vicinity of Fort Pierce, see pages 61 and 62.

Z 33.—About 3.2 miles south along the Florida East Coast Railway from **Fort Pierce**, St. Lucie County, about 90 yards northeast of milepost 245, and 24.6 feet east of the east rail. A standard disk, stamped "Z 33 1933" and set in the top of a concrete post. (9.220 meters or 30.249 feet.)

A 34.—About 3.8 miles north along the Florida East Coast Railway from **Walton**, St. Lucie County, at about mileage 248.5, at a dirt-road crossing, 22 feet south of the road, and 18 feet east of the east rail, in the side of a cut. A standard disk, stamped "A 34 1933" and set in the top of a concrete post. (11.595 meters or 38.041 feet.)

B 34.—At **Walton**, St. Lucie County, about 510 feet south of the Florida East Coast Railway station, at about mileage 252.5, 36.5 feet north of the center line of a paved road, and 22.3 feet west of the west rail. A standard disk, stamped "B 34 1933" and set in the top of a concrete post. (9.280 meters or 30.446 feet.)

C 34.—About 2.8 miles south along the Florida East Coast Railway from **Walton**, St. Lucie County, at about mileage 255.3, at a dirt-road crossing on the St. Lucie-Martin county line, 19 feet northeast of the center line of the road, and 15.5 feet west of the west rail. A standard disk, stamped "C 34 1933" and set in the top of a concrete post. (4.437 meters or 14.557 feet.)

Spur line to tidal bench marks at Sewall Point.

33 (F.E.E.C.)—About 6 miles south along the highway from **Jensen**, Martin County, at **Sewall Point**, 98.5 feet south of Sewall's residence, and 3 feet north of a triangulation station. The head of a lag screw, set in the top of a round concrete monument projecting about 3 inches above ground. (11.086 meters or 36.371 feet.)

Tidal 2.—At **Sewall Point**, Martin County, on the St. Lucie River, at the base of a 20-foot bluff, about 300 feet southwest of the southwest corner of Captain Willoughby's residence, in a low sea wall made of coquina rocks and extending north and south along the high-water line of the river frontage of the tract of land belonging to Captain Willoughby, directly under the steps leading down to the private dock, about 13 feet northeast of the northeast corner of the boathouse lying along the south side of the dock, in the top of the sea wall. A standard disk, stamped "2 1930." (0.905 meter or 2.969 feet.)

Tidal 1.—At **Sewall Point**, Martin County, on the St. Lucie River, at the base of a 20-foot bluff, about 300 feet southwest of the southwest corner of Captain Willoughby's residence, in a low sea wall made of coquina rocks and extending north and south along the high-water line of the river frontage of the tract of land belonging to Captain Willoughby, 45 feet north along the sea wall from the wooden steps leading down to the private dock extending west into the river, in the top of a medium-sized coquina boulder. A standard disk, stamped "1 1930." (0.896 meter or 2.940 feet.)

Tidal 3.—At **Sewall Point**, Martin County, on the St. Lucie River, at the base of a 20-foot bluff, about 300 feet southwest of the southwest corner of Captain Willoughby's residence, in a low sea wall made of coquina rocks and extending north and south along the high-water line of the river frontage of the tract of land belonging to Captain Willoughby, 12 feet southeast of the southeast corner of the boathouse lying along the south side of the private dock, in the top of the sea wall. A standard disk, stamped "3 1930." (1.111 meters or 3.645 feet.)

End of spur line.

D 34.—About 3.3 miles north along the Florida East Coast Railway from **Stuart**, Martin County, and about 850 feet southwest of milepost 258, at the west end of a long curve, 22.4 feet south of the south rail. A standard disk, stamped "D 34 1933" and set in the top of a concrete post. (4.329 meters or 14.203 feet.)

E 34.—At **Stuart**, Martin County, about 240 feet north of the Florida East Coast Railway station, 39.5 feet north of the center line of a paved-street crossing, and 11 feet east of the east rail. A standard disk, stamped "E 34 1933" and set in the top of a concrete post. (4.028 meters or 13.215 feet.)

F 34.—At **Stuart**, Martin County, at the county courthouse, on the north side, in the top steps just west of the entrance. A standard disk, stamped "F 34 1933." (3.334 meters or 10.938 feet.)

G 34.—At **Port Sewall**, Martin County, about 85 feet south of the Florida East Coast Railway station, 34 feet south of the center line of a road crossing the track just south of the station, and 12 feet east of the east rail. A standard disk, stamped "G 34 1933" and set in the top of a concrete post. (5.836 meters or 19.147 feet.)

H 34.—About 0.8 mile south along the Florida East Coast Railway from **Salerno**, Martin County, about 700 feet south of milepost 267, 79 feet north of a dirt-road crossing, 35 feet west of the center line of the highway, and 34 feet east of the east rail. A standard disk, stamped "H 34 1933" and set in the top of a concrete post. (2.777 meters or 9.111 feet.)

J 34.—About 3.8 miles south along the Florida East Coast Railway from **Salerno**, Martin County, 60.4 feet south of milepost 270, 28 feet west of the west rail, and 25 feet east of the center line of the highway. A standard disk, stamped "J 34 1933" and set in the top of a concrete post. (6.705 meters or 21.998 feet.)

R.M. Pine.—About 0.6 mile north along the highway from **Gomez**, Martin County, on the west side of the highway, at the edge of the pavement. A standard reference-mark disk, stamped "PINE 1929" and set in the top of a concrete post. (7.240 meters or 23.753 feet.)

K 34.—About 1 mile south along the Florida East Coast Railway from **Gomez**, Martin County, at mileage 273.1, about 50 yards west of a stucco building owned by L. A. Devor, 18.9 feet east of the center line of the east track, and 15 feet north of the center of a dirt-road crossing. A standard disk, stamped "K 34 1933" and set in the top of a concrete post. (7.239 meters or 23.750 feet.)

L 34.—About 1¼ miles south along the Florida East Coast Railway from **Hobe Sound**, Martin County, about 0.8 mile south of United States Highway 1 concrete bridge over the track, at mileage 276.25, at the north end of a small sand ridge, 45 feet north of a pole, 18 yards west of the center line of the old Dixie Highway, and 26.3 feet east of the center line of the east track. A standard disk, stamped "L 34 1933" and set in the top of a concrete post. (6.795 meters or 22.293 feet.)

M 34.—In Martin County, about 3¼ miles north along the Florida East Coast Railway from **Jupiter**, Palm Beach County, 65 feet east of milepost 279, about 50 yards north of a small pond on the east side of the track, 75 feet west of the center line of the old Dixie Highway, and 40 feet east of the center line of the east track. A standard disk, stamped "M 34 1933" and set in the top of a concrete post. (3.815 meters or 12.516 feet.)

Spur line to tidal bench marks at Jupiter Inlet.

Tidal 2.—At **Jupiter Inlet**, Palm Beach County, near the lighthouse, at the northernmost of the four buildings of the Naval Radio Station, just outside the building, under the north end of the tin shelter over the entrance, in the concrete floor. A standard disk, stamped "2 1929." (2.431 meters or 7.976 feet.)

Tidal 1.—At **Jupiter Inlet**, Palm Beach County, near the lighthouse, at the Naval Radio Station, in the top of the concrete foundation block of the southeast leg of the steel radio tower. A standard disk, stamped "1 1929." (3.552 meters or 11.654 feet.)

Tidal 3.—At **Jupiter Inlet**, Palm Beach County, at the lighthouse, at the second landing to the steps leading to the lighthouse, in the top of the west concrete railing. A standard disk, stamped "3 1929." (10.722 meters or 35.177 feet.)

36 (F.E.E.C.).—At **Jupiter Inlet**, Palm Beach County, at the lighthouse, on the top of the west end of the cast-iron doorsill. The top of the doorsill. (15.540 meters or 50.984 feet.)

End of spur line.

N 34.—About $\frac{1}{2}$ mile north along the Florida East Coast Railway from **Jupiter**, Palm Beach County, about $\frac{1}{4}$ mile north of the bridge over Jupiter Inlet, 39 feet east of the center line of the east track, 32.6 feet northwest of the center of the old Dixie Highway grade crossing, 21.3 feet north of a high-tension pole, and 12.8 feet northeast of a pole. A standard disk, stamped "N 34 1933" and set in the top of a concrete post. (2.896 meters or 9.501 feet.)

P 34.—About $2\frac{1}{4}$ miles south along the Florida East Coast Railway from **Jupiter**, Palm Beach County, about 71 yards south of milepost 285, about $\frac{1}{2}$ mile north of the old Dixie Highway grade crossing, 42 feet east of the center line of the highway, 30.6 feet west of the center line of the west track, and 18.4 feet northeast of a signal pole. A standard disk, stamped "P 34 1933" and set in the top of a concrete post. (3.099 meters or 10.167 feet.)

Q 34.—About 6 miles south along the Florida East Coast Railway from **Jupiter**, Palm Beach County, at mileage 288.45, 15 feet north of the center of a dirt-road crossing, and 23.2 feet west of the center line of the west track. A standard disk, stamped "Q 34 1933" and set in the top of a concrete post. (4.694 meters or 15.400 feet.)

R 34.—About 2 miles north along the Florida East Coast Railway from **Kelsey City**, Palm Beach County, about 105 feet south of the south end of bridge 291.38, 73 feet west of the center line of the old Dixie Highway, and 21.8 feet east of the center line of the east track. A standard disk, stamped "R 34 1933" and set in the top of a concrete post. (4.939 meters or 16.368 feet.)

S 34.—About $\frac{3}{4}$ mile south along the Florida East Coast Railway from **Kelsey City**, Palm Beach County, 17.6 feet south of milepost 294, about 30 feet east of the center line of the old Dixie Highway, and 22.9 feet west of the center line of the west track. A standard disk, stamped "S 34 1933" and set in the top of a concrete post. (5.874 meters or 19.272 feet.)

Spur line to tidal bench marks at Port of Palm Beach.

Tidal 3.—At **Port of Palm Beach**, Palm Beach County, at Riviera Dock, on the north side of the slip, in the top of the concrete wall, 6.9 feet from the west end, 0.6 foot from the south edge, and 0.7 foot from the base of a double bitt at the northwest corner of the slip. A standard disk, stamped "NO. 3 1929." (2.064 meters or 6.772 feet.)

Tidal 2.—At **Port of Palm Beach**, Palm Beach County, at Riviera Dock, 62.6 feet from the north edge of the slip, 5.8 feet from the north edge of the loading platform, and 3.8 feet from the edge of the driveway, in the top of the concrete floor inside of the warehouse. A standard disk, stamped "NO. 2 1929." (2.140 meters or 7.021 feet.)

Tidal 1.—At **Port of Palm Beach**, Palm Beach County, at Riviera Dock, on the north edge of the Lake Worth Inlet District No. 2 Warehouse, 18.4 feet from the end of the warehouse, 9.8 feet from the outside of the building wall, and 6.6 feet from the north edge of the platform alongside the building, in the concrete floor extending beyond the building wall. A standard disk, stamped "NO. 1 1929." (2.102 meters or 6.896 feet.)

End of spur line.

T 34.—At the north side of **West Palm Beach**, Palm Beach County, on the Florida East Coast Railway, about 120 yards south of milepost 297, 46.9 feet south of the center line of Thirty-sixth Street, and 22.0 feet west of the center line of the west track. A standard disk, stamped "T 34 1933" and set in the top of a concrete post. (5.939 meters or 19.485 feet.)

U 34.—At **West Palm Beach**, Palm Beach County, about 135 feet southwest of the Florida East Coast Railway station, 10.6 feet south of milepost 299, and 26.4 feet west of the west rail. A standard disk, stamped "U 34 1933" and set in the top of a concrete post. (5.672 meters or 18.609 feet.)

V 34.—At **West Palm Beach**, Palm Beach County, about 1,250 feet south of the Florida East Coast Railway station, 161.5 feet north of the center line of First Street North, and 20 feet east of the east rail. A standard disk,

stamped "V 34 1933" and set in the top of a concrete post. (5.639 meters or 18.501 feet.)

Spur line to tidal bench marks at Palm Beach.

W 34.—At **West Palm Beach**, Palm Beach County, at the county courthouse, at the west end of the southwest granite entrance extension, 2.2 feet north of the southwest corner, and about 5 feet above the ground. A standard disk, stamped "W 34 1933" and set vertically. (6.444 meters or 21.142 feet.)

347.—At **Palm Beach**, Palm Beach County, on the Florida East Coast Hotel property, 60.5 feet southeast of the curb on the northwest corner of Main Street and Brady Place, 59.0 feet southwest of the curb on the northeast corner of Main Street and Brady Place, and 20.6 feet south of the south curb line of Main Street, in the northwest side of the concrete foundation of the most easterly leg of the city water tank. The center of a "Bridgeport" brass traffic disk. (2.032 meters or 6.667 feet.)

PALM BEACH.—At **Palm Beach**, Palm Beach County, at the intersection of Royal Palm Way and Ocean Boulevard, 70.4 feet west of the east curb of Ocean Boulevard, 39.4 feet south of the north curb of Royal Palm Way, and 10.4 feet west of the circular curb at the end of the parkway, in the center of the east end of the parkway on Royal Palm Way, about 6 inches below the surface of the ground, covered by a cast-iron box. A standard disk, stamped "PALM BEACH 1932" and set in the top of a concrete post. (4.519 meters or 14.826 feet.)

Tidal 2.—At **Palm Beach**, Palm Beach County, at Rainbo Pier, at the intersection of Ocean Boulevard and Worth Avenue, on the west side of South Ocean Boulevard, on the south side of Worth Avenue, west of the pier, in the top of the street edge of the concrete sidewalk on South Ocean Boulevard. A standard disk, stamped "NO. 2 1929." (4.547 meters or 14.918 feet.)

Tidal 3.—At **Palm Beach**, Palm Beach County, at Rainbo Pier, in front of the Ocean View Hotel, in the top of the street edge of the concrete sidewalk along the south side of Worth Avenue, in line with the east edge of the concrete walk along the east side of the hotel. A standard disk, stamped "NO. 3 1929." (3.485 meters or 11.434 feet.)

Tidal 1.—At **Palm Beach**, Palm Beach County, at Rainbo Pier, at the intersection of Hammon Avenue and South Ocean Boulevard, in the top of the street edge of the concrete sidewalk on the north side of Hammon Avenue. A standard disk, stamped "NO. 1 1929." (4.645 meters or 15.239 feet.)

End of spur line.

Rail.—At **West Palm Beach**, Palm Beach County, about 0.9 mile south of the Florida East Coast Railway station, at the Okeechobee Road crossing, 3 feet west of the west rail, and 2 feet south of the pavement. A standard traverse-station disk, set in the top of a concrete post. (5.870 meters or 19.258 feet.)

X 34.—About 4 miles south along the Florida East Coast Railway from the station at **West Palm Beach**, Palm Beach County, at milepost 303, 20.4 feet east of the east rail, in line with the south sidewalk of Valley Forge Street. A standard disk, stamped "X 34 1933" and set in the top of a concrete post. (5.190 meters or 17.023 feet.)

Y 34.—At **Lake Worth**, Palm Beach County, on the Florida East Coast Railway, about 80 feet north of milepost 306, at the Lucerne Avenue crossing, about 200 feet west of Central Fire Station, 34.5 feet north of the center line of Lucerne Avenue, and 12.6 feet west of the west rail. A standard disk, stamped "Y 34 1933" and set in the top of a concrete post. (5.648 meters or 18.530 feet.)

Z 34.—About 3 miles south along the Florida East Coast Railway from **Lake Worth**, Palm Beach County, at milepost 309, 53.0 feet west of the center line of United States Highway 1, 24.5 feet east of the east rail, and 10 feet north of a pole. A standard disk, stamped "Z 34 1933" and set in the top of a concrete post. (3.182 meters or 10.440 feet.)

A 35.—At **Boynton**, Palm Beach County, about 1,070 feet north of the Florida East Coast Railway station, about 600 feet north of the center of the first street crossing north of the station, and 26 feet east of the east rail of the north-bound track. A standard disk, stamped "A 35 1933" and set in the top of a concrete post. (3.760 meters or 12.336 feet.)

B 35.—About 2 miles north along the Florida East Coast Railway from **Delray Beach**, Palm Beach County, about 60 feet east of milepost 315, 40 feet east of the west rail of the north-bound track, and 22 feet west of the center line of the old Dixie Highway. A standard disk, stamped "B 35 1933" and set in the top of a concrete post. (4.982 meters or 16.345 feet.)

C 35.—About 1 mile south along the Florida East Coast Railway from **Delray Beach**, Palm Beach County, at milepost 318, about 250 feet south of a road crossing, 35 feet west of the center line of the old Dixie Highway, and 32 feet east of the east rail. A standard disk, stamped "C 35 1933" and set in the top of a concrete post. (5.684 meters or 18.648 feet.)

D 35.—About 3.6 miles north along the Florida East Coast Railway from **Boca Raton**, Palm Beach County, at milepost 321, 38.8 feet east of the east rail, and 29 feet northeast of the northeast corner of a freight platform. A standard disk, stamped "D 35 1933" and set in the top of a concrete post. (5.530 meters or 18.148 feet.)

E 35.—About 0.6 mile north along the Florida East Coast Railway from **Boca Raton**, Palm Beach County, at milepost 324, 40 feet east of the east rail, 23 feet west of the center line of the old Dixie Highway, and about 4 feet lower than the track. A standard disk, stamped "E 35 1933" and set in the top of a concrete post. (3.502 meters or 11.489 feet.)

F 35.—At **Deerfield**, Broward County, about 150 feet northwest of the Florida East Coast Railway station, at milepost 327, 56.5 feet north of the center of a street crossing, and 14.5 feet west of the west rail. A standard disk, stamped "F 35 1933" and set in the top of a concrete post. (4.616 meters or 15.144 feet.)

G 35.—About 3 miles north along the Florida East Coast Railway from **Pompano**, Broward County, at milepost 330, 27 feet east of the center line of the old Dixie Highway, and 20.6 feet west of the west rail. A standard disk, stamped "G 35 1933" and set in the top of a concrete post. (6.149 meters or 20.174 feet.)

H 35.—At **Pompano**, Broward County, about 325 feet northwest of the Florida East Coast Railway station, 2 feet north of milepost 333, 34 feet east of the center line of a street, and 16.8 feet west of the west rail. A standard disk, stamped "H 35 1933" and set in the top of a concrete post. (5.058 meters or 16.594 feet.)

POMPANO.—At **Pompano**, Broward County, on Southeast First Street, northwest of the post office, at the southeast corner of the concrete bridge over Cypress Creek Canal, in the top of the wing wall. A standard disk, stamped "POMPANO 1932." (2.985 meters or 9.793 feet.)

J 35.—About 3 miles south along the Florida East Coast Railway from **Pompano**, Broward County, about 485 feet north of milepost 336, about 28 yards east of the center line of the old Dixie Highway, about 12 yards south of a road crossing, and 36.8 feet west of the west rail of the south-bound track. A standard disk, stamped "J 35 1933" and set in the top of a concrete post. (1.938 meters or 6.358 feet.)

K 35.—About 2.7 miles north along the Florida East Coast Railway from **Fort Lauderdale**, Broward County, about 250 feet south of milepost 339, 15 feet north of a road crossing, and 11.4 feet west of the west rail of the south-bound track. A standard disk, stamped "K 35 1933" and set in the top of a concrete post. (2.066 meters or 6.778 feet.)

L 35.—At **Fort Lauderdale**, Broward County, on the Florida East Coast Railway, 38.0 feet north of the center of the Southwest Second Street crossing, in front of the Railway Express Agency, 52.5 feet east of the curb, and 16.5 feet west of the west rail of the south-bound track. A standard disk, stamped "L 35 1933" and set in the top of a concrete post. (2.226 meters or 7.303 feet.)

Spur line to tidal bench marks at Fort Lauderdale.

Tidal 1.—At **Fort Lauderdale**, Broward County, on the west side of South Andrews Avenue, opposite the south edge of the Chamber of Commerce building, at the floor of the southernmost pillar supporting the balcony, in the top of the street edge of the concrete sidewalk. A standard disk, stamped "NO. 1 1929." (1.479 meters or 4.852 feet.)

Tidal 3.—At **Fort Lauderdale**, Broward County, just east of the South Andrews Avenue bridge over New River, at the foot of the concrete retaining wall alongside the steps leading from the north end of the bridge to the level of the pavement, in the concrete walk along the north edge of New River and

the south side of River Drive. A standard disk, stamped "NO. 3 1929." (1.141 meters or 3.743 feet.)

Tidal 2.—At **Fort Lauderdale**, Broward County, on Southeast Third Avenue, at the intersection of Southeast Sixth Street, at the county courthouse, in the top of the concrete wall bordering on the north edge of the steps, 1.5 feet higher than the sidewalk. A standard disk, stamped "NO. 2 1929." (2.785 meters or 9.137 feet.)

FORT LAUDERDALE.—At **Fort Lauderdale**, Broward County, on Las Olas Boulevard, in the southwest corner of the concrete walk on Collee Hammock Bridge, the second bridge crossed in going from the town to the beach. A standard disk, stamped "FORT LAUDERDALE 1932." (3.530 meters or 11.581 feet.)

End of spur line.

Spur line to tidal bench marks at Port Everglades (Lake Mabel).

Tidal 1.—At **Port Everglades**, Broward County, on the west side of Lake Mabel, on the section line between sections 14 and 23, 1,410 feet west of the northwest corner of section 24. A standard disk, stamped "NO. 1 1928" and set in the top of a concrete post. (1.816 meters or 5.958 feet.)

Tidal 2.—At **Port Everglades**, Broward County, on the west side of Lake Mabel, in the window sill of the east window on the north end of a concrete block building. A standard disk, stamped "NO. 2 1928." (2.988 meters or 9.803 feet.)

Tidal 3.—At **Port Everglades**, Broward County, on the west side of Lake Mabel, in the north side of a concrete building, at the northwest corner, about 1½ feet above ground. A standard disk, stamped "NO. 3 1928." (1.989 meters or 6.526 feet.)

End of spur line.

M 35.—About 2 miles north along the Florida East Coast Railway from **Dania**, Broward County, about 585 feet south of milepost 344, 33.5 feet west of the center line of the old Dixie Highway, and 30.3 feet east of the east rail of the north-bound track. A standard disk, stamped "M 35 1933" and set in the top of a concrete post. (3.003 meters or 9.852 feet.)

N 35.—At **Dania**, Broward County, on the Florida East Coast Railway, about 312 feet north of milepost 346, 17 feet south of a crossing, and 17.5 feet west of the west rail of the south-bound track. A standard disk, stamped "N 35 1933" and set in the top of a concrete post. (3.469 meters or 11.381 feet.)

P 35.—At **Hollywood**, Broward County, 38 feet west of the west side of the ticket office of the Florida East Coast Railway station, and 24 feet east of the east rail of the north-bound track, in the top of the curb at the edge of the passenger walk. A standard disk, stamped "P 35 1933." (4.139 meters or 13.579 feet.)

Q 35.—At **Hallandale**, Broward County, on the Florida East Coast Railway, 65 feet south of the center line of Beach Boulevard, 50 feet west of the center line of First Avenue, and 18.7 feet east of the east rail of the north-bound track. A standard disk, stamped "Q 35 1933" and set in the top of a concrete post. (2.908 meters or 9.541 feet.)

R 35.—At **Ojus**, Dade County, at the Florida East Coast Railway station, 30 feet north of a road crossing, 33 feet west of the west rail of the south-bound track, and 32 feet east of the center line of the old Dixie Highway. A standard disk, stamped "R 35 1933" and set in the top of a concrete post. (1.911 meters or 6.270 feet.)

S 35.—About 10 miles north along the Florida East Coast Railway from the station at **Miami**, Dade County, about 712 feet south of milepost 356, 57 feet west of the center line of United States Highway 1, and 33.5 feet east of the east rail of the north-bound track. A standard disk, stamped "S 35 1933" and set in the top of a concrete post. (3.452 meters or 11.325 feet.)

T 35.—About 6.7 miles north along the Florida East Coast Railway from the station at **Miami**, Dade County, about 100 feet north of the center line of Ninety-sixth Street NE., 40 feet west of Second Avenue NE., and 35 feet east of the east rail of the north-bound track. A standard disk, stamped "T 35 1933" and set in the top of a concrete post. (2.393 meters or 7.851 feet.)

U 35.—About 4 miles north along the Florida East Coast Railway from the station at **Miami**, Dade County, 45 feet east of Fourth Avenue NE., 25 feet

west of the west rail of the south-bound track, and 18 feet south of Fifty-fifth Terrace NE. A standard disk, stamped "U 35 1933" and set in the top of a concrete post. (5.002 meters or 16.411 feet.)

V 35.—About 1.2 miles north along the Florida East Coast Railway from the station at Miami, Dade County, 50 feet north of the center line of Thirteenth Street NW., 30.2 feet west of the west rail of the south-bound track, and 16.3 feet east of the center line of First Avenue NW. A standard disk, stamped "V 35 1933" and set in the top of a concrete post. (4.608 meters or 15.118 feet.)

MIAMI.—At Miami, Dade County, at the west side of the county courthouse, 140.2 feet north of the north curb of Flagler Street, and 19.4 feet east of the east curb on First Avenue NW., in the top of the granite retaining wall on the south side of the ramp entering the parking area in the basement of the courthouse. A standard disk, stamped "MIAMI 1932." (2.539 meters or 8.330 feet.)

Tidal 18.—At Miami, Dade County, on the east side of Biscayne Boulevard near Fifth Street NE., at the south side of the north entrance to the road leading to the Yacht Basin, opposite the Alcazar Hotel, at the base of a lamppost, in the concrete sidewalk. A standard disk, stamped "NO. 18 1928." (2.569 meters or 8.428 feet.)

3 (City of Miami).—At Miami, Dade County, at the northeast corner of Second Avenue and Fifth Street NE., in the concrete sidewalk. A city of Miami standard cap, fastened on the top of a ½-inch pipe. (3.755 meters or 12.320 feet.)

Tidal 8.—At Miami, Dade County, at Biscayne Bay, at the northwest corner of the intersection of North Miami Avenue and Sixth Street, in the top of the second brick column on Miami Avenue from the southeast corner of Miami Ice Factory 1, 1 foot above the pavement. A standard disk. (4.432 meters or 14.541 feet.)

Tidal 7.—At Miami, Dade County, at Biscayne Bay, at the southwest corner of the intersection of First Avenue and Sixth Street NE., at the northwest corner of the concrete building on Sixth Street, in the top of the west end of the concrete doorsill of the entrance to the Cuban Exile Headquarters. A standard disk. (3.873 meters or 12.051 feet.)

Tidal 15.—At Miami, Dade County, at Biscayne Bay, 5 feet northwest of the intersection of First Avenue and Sixth Street NE. A city of Miami standard iron marker, set several inches below the surface of the street and covered by a 5½-inch iron disk which fits in a 9-inch iron square. (3.195 meters or 10.482 feet.)

Tidal 14.—At Miami, Dade County, at Biscayne Bay, 5 feet northwest of the intersection of Second Avenue and Sixth Street NE. A city of Miami standard iron marker, set several inches below the surface of the street and covered by a 5½-inch iron disk which fits in a 9-inch iron square. (3.248 meters or 10.656 feet.)

Tidal 13.—At Miami, Dade County, at Biscayne Bay, 5 feet northwest of the intersection of Biscayne Boulevard and Sixth Street NE. A city of Miami standard iron marker, set several inches below the surface of the street and covered by a 5½-inch iron disk which fits in a 9-inch iron square. (2.226 meters or 7.303 feet.)

Tidal 16.—At Miami, Dade County, at the northwest corner of the intersection of Biscayne Boulevard and Sixth Street NE., at the southeast corner of the Miami Daily News Building, 8½ feet from the curb on Sixth Street, in the concrete walk, level with the ground. A standard disk, stamped "NO. 16 1928." (2.912 meters or 9.554 feet.)

Tidal 17.—At Miami, Dade County, at the northwest corner of the intersection of Biscayne Boulevard and Eighth Street NE., in a corner on the east side of the Villa D'Ests Hotel, 31¼ feet from the southeast corner, and 9¼ feet from the curb on the west side of Biscayne Boulevard, in the concrete sidewalk. A standard disk, stamped "NO. 17 1928." (1.550 meters or 5.085 feet.)

4 (City of Miami).—At Miami, Dade County, at the northeast corner of the intersection of Second Avenue NE. and Eighth Street, in the concrete sidewalk. A city of Miami standard cap, fastened on the top of a ½-inch pipe. (3.260 meters or 10.696 feet.)

5 (City of Miami).—At Miami, Dade County, at the northeast corner of the intersection of Second Avenue NE. and Tenth Street, in the concrete sidewalk. A city of Miami standard cap, fastened on the top of a ½-inch pipe. (2.720 meters or 8.924 feet.)

6 (City of Miami).—At Miami, Dade County, at the intersection of Second Avenue NE. and Fourteenth Street NE., 58 feet north of the curb line of Fourteenth Street NE., and 3 feet east of the property line of Second Avenue NE., in the school yard. A city of Miami standard brass bolt, set in the top of a concrete base. (2.373 meters or 7.785 feet.)

7 (City of Miami).—At Miami, Dade County, at the northeast corner of the intersection of Second Avenue NE. and Seventeenth Street, in the concrete sidewalk. A city of Miami standard cap, fastened on the top of a ½-inch pipe. (2.486 meters or 8.156 feet.)

Tidal 2.—At Miami, Dade County, on the south side of the County Causeway, at the Miami end, at the west end of the first concrete span, on the south end of the first bent, in the top of a small concrete shelf on the south side of the first post. A standard disk, stamped "NO. 2 1928." (2.428 meters or 7.966 feet.)

Tidal 3.—At Miami, Dade County, at the County Causeway, at Pier 1, 40.4 feet northwest of the northwest foundation block of the rear channel range, and 9.5 feet south of a 6-foot wire fence, at the northeast corner of a warehouse, in the top of the northeast corner of the concrete foundation. A standard disk, stamped "NO. 3 1928." (1.847 meters or 6.060 feet.)

Tidal 1.—At Miami, Dade County, on the north side of the County Causeway between Miami and Miami Beach, at the southeast corner of the first concrete handrail post west of the wooden draw, 34.3 feet north of the center line of the causeway, 1 foot from the east end of the concrete span on the Miami side, in the concrete walk. A standard disk, stamped "NO. 1 1928." (4.248 meters or 13.937 feet.)

Tidal 4.—At Miami Beach, Dade County, at the intersection of Jefferson Avenue, Commerce Street and Alton Road, in the side of the southernmost post of the wall surrounding the South Miami Beach water tower, facing Jefferson Avenue, about 6 inches above ground. A standard disk, stamped "NO. 4 1928" and set vertically. (1.464 meters or 4.803 feet.)

Tidal 5.—At Miami Beach, Dade County, at the northeast corner of the intersection of Jefferson Avenue and Biscayne Street, at the southeast corner of the property of the Gulf Refining Co., in the top of the base of the concrete wall. A standard disk, stamped "NO. 5 1928." (1.248 meters or 4.094 feet.)

Tidal 6.—At Miami Beach, Dade County, at the intersection of Jefferson Avenue and Biscayne Street, on the east side of Jefferson Avenue, about 130 feet south of Biscayne Street, in the end of the narrow concrete walk. A standard disk, stamped "NO. 6 1928." (0.881 meter or 2.890 feet.)

6 (U.S.E.).—At the south side of Miami Beach, Dade County, at the United States Reservation, at the south end of Collins Avenue, at the intersection of a road about 50 yards east of the Corps of Engineers, United States Army, office, 28 feet north of the axis of the north jetty, in the center of the road, protected by a 12- by 18-inch manhole frame and cast-iron cover. A reference-mark cap, stamped "NO. 6" and riveted on the top of a 2-inch pipe. (1.881 meters or 6.171 feet.)

Tidal 2.—At Miami Beach, Dade County, at the southwest corner of the intersection of Biscayne Street and Collins Avenue, on the south side of the Biscayne Plaza Theater, about 138 feet west of the southeast corner of the theater, in the concrete walk. A standard disk, stamped "NO. 2 1928." (1.704 meters or 5.591 feet.)

Tidal 3.—At Miami Beach, Dade County, at the southeast corner of the intersection of Biscayne Street and Collins Avenue, opposite the Biscayne Plaza Theater on Collins Avenue, about 50 feet from the corner, at the southwest corner of Warrinn Hotel, in the concrete sidewalk. A standard disk, stamped "NO. 3 1928." (2.262 meters or 7.421 feet.)

NOTE.—The sidewalk is badly cracked.

PIER.—At Miami Beach, Dade County, at the foot of Biscayne Street, at Carter's concrete ocean pier, 100 feet west of the seaward (east) end of the pier, about 32 feet south of the north side, in the gage room under the ball-room, on the top of a 10-inch pipe set in the concrete floor and used as a gage well. A chiseled cross. (3.616 meters or 11.863 feet.)

For additional bench marks in the vicinity of Miami, see page 88.

LINE 15, MIAMI TO DUNNELLON, FLA.

[First-order leveling]

This line follows United States Highway 94 (Tamiami Trail) from Miami to Naples; the Seaboard Air Line Railway to Fort Myers; the Atlantic Coast Line Railroad to Punta Gorda; United States Highway 41 to Venice; the Seaboard Air Line Railway to Sarasota; the Atlantic Coast Line Railroad to Tampa; and the Seaboard Air Line Railway to Dunnellon. Spur lines were run from Fort Myers to Punta Rassa and from Tampa to St. Petersburg. The field work was done, during February and March 1933, by a party in charge of A. L. Wardwell, aid.

For additional bench marks in the vicinity of Miami, see pages 85-87.

W 35.—At Miami, Dade County, on the Florida East Coast Railway, 38.2 feet west of the west curb of First Avenue SW., 12.4 feet north of the north curb of Eighth Street SW., and 11.2 feet east of the east rail. A standard disk, stamped "W 35 1933" and set in the top of a concrete post. (2.937 meters or 9.636 feet.)

X 35.—At Miami, Dade County, at the intersection of Eighth Street SW. and Thirty-first Avenue SW., about 54 feet east of the center line of Thirty-first Avenue SW., 31 feet west of an iron lamppost, 4.6 feet north of the north gutter curb on Eighth Street SW., and 1 foot south of the south edge of the sidewalk. A standard disk, stamped "X 35 1933" and set in the top of a concrete post. (3.597 meters or 11.801 feet.)

Y 35.—At Coral Gables, Dade County, about 1¼ miles west of the Grenada Entrance, 19.4 feet south of the south curb on Eighth Street SW., 18 feet west of the center line of Sixty-first Avenue SW., 3.7 feet northeast of the edge of the sidewalk, and 3.3 feet southwest of the circular curb. A standard disk, stamped "Y 35 1933" and set in the top of a concrete post. (2.899 meters or 9.511 feet.)

Z 35.—About 4.2 miles west along United States Highway 94 (Tamiami Trail) from the Grenada Entrance to Coral Gables, Dade County, about 470 yards west of the Cumberland filling station, 58 feet east of pole 1 H, and 16 feet south of the center line of the highway. A standard disk, stamped "Z 35 1933" and set in the top of a concrete post. (3.202 meters or 10.505 feet.)

A 36.—About 7.3 miles west along United States Highway 94 (Tamiami Trail) from the Grenada Entrance to Coral Gables, Dade County, 95 feet west of the filling station owned by Mr. Gauthier, 66 feet west of the center of a wooden bridge, and 19.5 feet south of the center line of the highway. A standard disk, stamped "A 36 1933" and set in the top of a concrete post. (2.358 meters or 7.736 feet.)

B 36.—About 10.5 miles west along United States Highway 94 (Tamiami Trail) from the Grenada Entrance to Coral Gables, Dade County, about 500 yards east of West Levee Canal, 30.2 feet east of pole H 445, and 20.5 feet south of the center line of the highway. A standard disk, stamped "B 36 1933" and set in the top of a concrete post. (2.414 meters or 7.920 feet.)

C 36.—About 13.6 miles west along United States Highway 94 (Tamiami Trail) from the Grenada Entrance to Coral Gables, Dade County, about 1,250 yards west of Cronic Avenue, about 1,910 feet east of bridge 7, and 17.4 feet north of the center line of the highway. A standard disk, stamped "C 36 1933" and set in the top of a concrete post. (2.880 meters or 9.449 feet.)

D 36.—About 16.8 miles west along United States Highway 94 (Tamiami Trail) from the Grenada Entrance to Coral Gables, Dade County, about 990 feet east of bridge 12, and 17.3 feet north of the center line of the highway. A standard disk, stamped "D 36 1933" and set in the top of a concrete post. (3.001 meters or 9.846 feet.)

E 36.—About 19.9 miles west along United States Highway 94 (Tamiami Trail) from the Grenada Entrance to Coral Gables, Dade County, about 1,870 feet east of bridge 19, and 16.3 feet north of the center line of the highway. A standard disk, stamped "E 36 1933" and set in the top of a concrete post. (3.131 meters or 10.272 feet.)

F 36.—About 23.1 miles west along United States Highway 94 (Tamiami Trail) from the Grenada Entrance to Coral Gables, Dade County, about 146

yards east of bridge 24, and 18.0 feet south of the center line of the highway. A standard disk, stamped "F 36 1933" and set in the top of a concrete post. (2.863 meters or 9.409 feet.)

G 36.—About 26.2 miles west along United States Highway 94 (Tamiami Trail) from the Grenada Entrance to Coral Gables, Dade County, about 175 yards west of bridge 28, 89 feet west of pole 7 E 43, and 19.0 feet north of the center line of the highway. A standard disk, stamped "G 36 1933" and set in the top of a concrete post. (3.027 meters or 9.931 feet.)

H 36.—About 29.3 miles west along United States Highway 94 (Tamiami Trail) from the Grenada Entrance to Coral Gables, Dade County, about 315 yards west of bridge 31, about 29 yards west of pole 1047, and 18.0 feet north of the center line of the highway. A standard disk, stamped "H 36 1933" and set in the top of a concrete post. (3.006 meters or 9.862 feet.)

J 36.—About 32.4 miles west along United States Highway 94 (Tamiami Trail) from the Grenada Entrance to Coral Gables, Dade County, about 274 yards east of bridge 36, about 23 yards west of pole 1148, and 14.5 feet north of the center line of the highway. A standard disk, stamped "J 36 1933" and set in the top of a concrete post. (3.163 meters or 10.377 feet.)

K 36.—About 35.5 miles west along United States Highway 94 (Tamiami Trail) from the Grenada Entrance to Coral Gables, Dade County, about 320 feet west of bridge 40, 18 feet south of the center line of the highway, and 17 feet east of pole 1250. A standard disk, stamped "K 36 1933" and set in the top of a concrete post. (3.364 meters or 11.037 feet.)

L 36.—About 37.2 miles east along United States Highway 94 (Tamiami Trail) from Everglades, Collier County, at the Dade-Collier county line, in the south face of the north pier of the stone arch, 3.1 feet above ground. A standard disk, stamped "L 36 1933" and set vertically. (3.972 meters or 13.031 feet.)

M 36.—About 34.3 miles east along United States Highway 94 from Everglades, Collier County, about 297 yards west of bridge 49, 49 feet west of pole 1434, and 20 feet south of the center line of the highway. A standard disk, stamped "M 36 1933" and set in the top of a concrete post. (2.982 meters or 9.783 feet.)

N 36.—About 31.2 miles east along United States Highway 94 (Tamiami Trail) from Everglades, Collier County, about 39 yards east of bridge 55, 18 feet south of the center line of the highway, and 9 feet east of pole 1528. A standard disk, stamped "N 36 1933" and set in the top of a concrete post. (2.969 meters or 9.741 feet.)

P 36.—About 28.0 miles east along United States Highway 94 (Tamiami Trail) from Everglades, Collier County, about 48 yards west of bridge 61, about 39 yards west of pole 1623, and 17.5 feet north of the center line of the highway. A standard disk, stamped "P 36 1933" and set in the top of a concrete post. (2.949 meters or 9.675 feet.)

Q 36.—About 24.9 miles east along United States Highway 94 (Tamiami Trail) from Everglades, Collier County, about 1,015 yards east of bridge 65, about 15 yards east of pole 1717, and 16 feet north of the center line of the highway. A standard disk, stamped "Q 36 1933" and set in the top of a concrete post. (2.888 meters or 9.475 feet.)

R 36.—About 21.8 miles east along United States Highway 94 (Tamiami Trail) from Everglades, Collier County, about 53 yards east of bridge 67, about 51 yards west of pole 1810, and 15.5 feet north of the center line of the highway. A standard disk, stamped "R 36 1933" and set in the top of a concrete post. (2.749 meters or 9.019 feet.)

S 36.—About 18.7 miles east along United States Highway 94 (Tamiami Trail) from Everglades, Collier County, and about 70 yards east of bridge 70, near pole 1903, 16 feet north of the center line of the highway. A standard disk, stamped "S 36 1933" and set in the top of a concrete post. (2.343 meters or 7.687 feet.)

T 36.—About 15.6 miles east along United States Highway 94 (Tamiami Trail) from Everglades, Collier County, about 65 yards west of bridge 75, about 24 yards west of pole 1995, and 16 feet north of the center line of the highway. A standard disk, stamped "T 36 1933" and set in the top of a concrete post. (2.115 meters or 6.939 feet.)

U 36.—About 11.7 miles east along United States Highway 94 (Tamiami Trail) from Everglades, Collier County, and about 0.2 mile west of bridge 79, near pole 2110, 16 feet north of the center line of the highway. A standard

disk, stamped "U 36 1933" and set in the top of a concrete post. (1.715 meters or 5.627 feet.)

V 36.—About 7.9 miles east along United States Highway 94 (Tamiami Trail) from Everglades, Collier County, and about 2,680 feet east of bridge 85, near pole 2224, 17 feet north of the center line of the highway. A standard disk, stamped "V 36 1933" and set in the top of a concrete post. (1.394 meters or 4.573 feet.)

W 36.—About 4.2 miles north along United States Highway 94 (Tamiami Trail) from Everglades, Collier County, at the crossing of the Everglades Branch of the Atlantic Coast Line Railroad, 15 feet north of the center line of the highway, and 13 feet west of the west rail of the track, in the top of the northwest wing wall of a highway bridge, 3.4 feet from the northwest corner. A standard disk, stamped "W 36 1933." (1.828 meters or 5.997 feet.)

Spur line to tidal bench marks at Everglades.

Tidal 6=R.M. 2.—At Everglades, Collier County, near Barron River, on the property of the Bank of Everglades, about 40 feet north of the building, in the grass plot just inside of the walk. A standard reference-mark disk, set in the top of a drain tile filled with concrete. (1.006 meters or 3.301 feet.)

Tidal 3.—At Everglades, Collier County, near Barron River, in the top of the north concrete foundation of a large, yellow, wooden, water tank, about 8 inches from the edge. A standard disk. (1.441 meters or 4.728 feet.)

Tidal 4.—At Everglades, Collier County, near Barron River, at the Rod and Gun Club, about 70 feet from the porch, about 45 feet inshore from the outer edge of the dock, and about 24 feet from a 12-inch Australian pine tree between the dock and the hedge. A standard reference-mark disk, stamped "NO. 111" and set in the top of a drain tile filled with concrete. (0.985 meter or 3.232 feet.)

Tidal 1.—At Everglades, Collier County, near Barron River, at the Rod and Gun Club, about 40 feet inshore from the outer edge of the wharf, at the base of the northwest concrete foundation supporting the porch, in the strip of the concrete curbing flush with the ground. A standard disk. (1.114 meters or 3.655 feet.)

Tidal 2.—At Everglades, Collier County, near Barron River, in the park southwest of the Rod and Gun Club, in the south end of a concrete arrow. A standard disk. (1.150 meters or 3.773 feet.)

Tidal 5.—At Everglades, Collier County, near Barron River, at the end of Riverside Drive, about 33 feet from the Weather Bureau rain gage, in a grass plot. A standard disk, set in the top of a concrete monument projecting 14 inches above ground. (1.500 meters or 4.921 feet.)

End of spur line.

X 36.—About 7.6 miles northwest along United States Highway 94 (Tamiami Trail) from Everglades, Collier County, about 3.4 miles west of the crossing of the Everglades Branch of the Atlantic Coast Line Railroad, about 600 feet east of bridge 6, and 15 feet north of the center line of the highway. A standard disk, stamped "X 36 1933" and set in the top of a concrete post. (1.466 meters or 4.810 feet.)

Y 36.—About 10.4 miles west along United States Highway 94 (Tamiami Trail) from Everglades, Collier County, about 6.2 miles west of the crossing of the Everglades Branch of the Atlantic Coast Line Railroad, about 1,125 feet east of the Seminole City filling station, 15.5 feet south of the center line of the highway, and 11.3 feet north of pole 778 B 10. A standard disk stamped "Y 36 1933" and set in the top of a concrete post. (1.356 meters or 4.449 feet.)

Z 36.—About 13.5 miles west along United States Highway 94 (Tamiami Trail) from Everglades, Collier County, about 9.3 miles west of the crossing of the Everglades Branch of the Atlantic Coast Line Railroad, about 0.2 mile west of bridge 22, 16 feet south of the center line of the highway, and 11.4 feet north of pole 690. A standard disk, stamped "Z 36 1933" and set in the top of a concrete post. (1.230 meters or 4.035 feet.)

A 37.—About 16.6 miles west along United States Highway 94 (Tamiami Trail) from Everglades, Collier County, about 12.4 miles west of the crossing of the Everglades Branch of the Atlantic Coast Line Railroad, 75 feet west of bridge 30, 15 feet south of the center line of the highway, and 12 feet

north of pole 594. A standard disk, stamped "A 37 1933" and set in the top of a concrete post. (1.320 meters or 4.331 feet.)

B 37.—About 16.2 miles east along United States Highway 94 (Tamiami Trail) from Naples, Collier County, about 850 feet west of bridge 37 A, 50 feet east of pole 495, and 16 feet south of the center line of the highway. A standard disk, stamped "B 37 1933" and set in the top of a concrete post. (1.738 meters or 5.702 feet.)

C 37.—About 13.0 miles east along United States Highway 94 (Tamiami Trail) from Naples, Collier County, about 765 feet west of bridge 42, 18.6 feet south of the center line of the highway, and 11 feet north of pole 401. A standard disk, stamped "C 37 1933" and set in the top of a concrete post. (2.046 meters or 6.713 feet.)

D 37.—About 9.8 miles east along United States Highway 94 (Tamiami Trail) from Naples, Collier County, about 425 feet west of bridge 50, at pole 306, 15 feet south of the center line of the highway. A standard disk, stamped "D 37 1933" and set in the top of a concrete post. (2.213 meters or 7.260 feet.)

E 37.—About 8.1 miles east along United States Highway 94 (Tamiami Trail) from Naples, Collier County, at the crossing of the Marco Branch of the Atlantic Coast Line Railroad, 63.5 feet west of highway bridge 54, 25.7 feet west of the west rail, and 15 feet north of the center line of the highway. A standard disk, stamped "E 37 1933" and set in the top of a concrete post. (2.988 meters or 9.803 feet.)

F 37.—About 6.7 miles east along United States Highway 94 (Tamiami Trail) from Naples, Collier County, about 320 feet east of bridge 56, at pole 209, 15 feet north of the center line of the highway. A standard disk, stamped "F 37 1933" and set in the top of a concrete post. (2.333 meters or 7.654 feet.)

G 37.—About 3.5 miles east along United States Highway 94 (Tamiami Trail) from Naples, Collier County, 10 feet north of pole 115 E 30, and 18.5 feet south of the center line of the highway. A standard disk, stamped "G 37 1933" and set in the top of a concrete post. (2.227 meters or 7.306 feet.)

H 37.—About 0.2 mile east along United States Highway 94 (Tamiami Trail) from the Seaboard Air Line Railway station at Naples, Collier County, at the west end of the west concrete bridge over Gordon's River, 12.5 feet north of the center of the bridge, in the top of the curb, 2.2 feet west of the corner. A standard disk, stamped "H 37 1933." (3.698 meters or 12.133 feet.)

Naples (F.S.R.D.).—At Naples, Collier County, about 50 yards south of the Seaboard Air Line Railway station, and 51 feet north of the center line of State Highway 27, between two bumper blocks at the end of the track. A bolthead, set in the top of a concrete monument projecting 18 inches above ground. (1.880 meters or 6.168 feet.)

J 37.—About 3.7 miles north along the Seaboard Air Line Railway from Naples, Collier County, about 160 yards north of milepost 958, about 55 yards north of a switch point, 30 feet west of the center line of a dirt road, and 29.7 feet east of the center line of the track. A standard disk, stamped "J 37 1933" and set in the top of a concrete post. (3.786 meters or 12.421 feet.)

K 37.—About 6.7 miles north along the Seaboard Air Line Railway from Naples, Collier County, about 1,100 feet north of milepost 955, about 200 feet north of the north point of a curve, 79.5 feet south of a pole, 37 feet east of a 15-inch pine tree, and 34.4 feet north of the center line of the track. A standard disk, stamped "K 37 1933" and set in the top of a concrete post. (3.253 meters or 10.873 feet.)

L 37.—About 9.0 miles north along the Seaboard Air Line Railway from Naples, Collier County, about 830 yards north of milepost 953, just north of a road crossing, 58 feet north of a pole, 30 feet southeast of a 10-inch pine tree, and 29 feet west of the center line of the track. A standard disk, stamped "L 37 1933" and set in the top of a concrete post. (2.586 meters or 8.484 feet.)

Kant.—In Collier County, about 1 mile south along the Seaboard Air Line Railway from Bonita Springs, Lee County, about 490 yards north of milepost 950, about 810 yards north of the center of the crossing of United States Highway 41, and 9 feet west of the center line of the track. A standard disk, stamped "TRAV. STA. KANT 1928" and set in the top of a concrete post. (4.520 meters or 14.829 feet.)

M 37.—At Bonita Springs, Lee County, about 60 yards north of the Seaboard Air Line Railway station, 80 feet south of the center of a road crossing,

41 feet south of a switch point, and 16 feet east of the center line of the track. A standard disk, stamped "M 37 1933", and set in the top of a concrete post. (5.196 meters or 17.047 feet.)

N 37.—About 3 miles north along the Seaboard Air Line Railway from **Bonita Springs**, Lee County, 32.7 feet south of milepost 946, and 18.5 feet west of the center line of the track. A standard disk, stamped "N 37 1933", and set in the top of a concrete post. (4.040 meters or 13.255 feet.)

P 37.—About 1.5 miles south along the Seaboard Air Line Railway from **Estero**, Lee County, about 1,200 feet south of milepost 942, 54 feet south of the center of a road crossing, and 16.3 feet west of the center line of the track. A standard disk, stamped "P 37 1933", and set in the top of a concrete post. (4.787 meters or 15.705 feet.)

Q 37.—About 1.5 miles north along the Seaboard Air Line Railway from **Estero**, Lee County, about 260 feet south of milepost 939, about 145 feet north of pole E 37, and 11.5 feet east of the center line of the track. A standard disk, stamped "Q 37 1933", and set in the top of a concrete post. (2.713 meters or 8.901 feet.)

R 37.—About $8\frac{1}{2}$ miles south along the Seaboard Air Line Railway from **Fort Myers**, Lee County, about 250 feet north of milepost 936, 77 feet north of the center of a grade crossing, 44.6 feet northeast of the center line of United States Highway 41, and 13.7 feet west of the center line of the track. A standard disk, stamped "R 37 1933", and set in the top of a concrete post. (2.724 meters or 8.937 feet.)

S 37.—About $5\frac{1}{2}$ miles south along the Seaboard Air Line Railway from **Fort Myers**, Lee County, about 580 feet south of milepost 933, 17 feet south of the center line of a dirt road, 23.7 feet east of the center line of the track, and 8 feet north of a pole. A standard disk, stamped "S 37 1933", and set in the top of a concrete post. (4.244 meters or 13.924 feet.)

T 37.—About $2\frac{1}{2}$ miles south along the Seaboard Air Line Railway from **Fort Myers**, Lee County, about $\frac{1}{2}$ mile north of the airport-road crossing, about 312 yards south of milepost 930, about 50 yards north of the northeast corner of the Fort Myers Airport landing field, 70 feet north of a pole, and 13 feet west of the center line of the track. A standard disk, stamped "T 37 1933", and set in the top of a concrete post. (5.173 meters or 16.972 feet.)

U 37.—About $1\frac{1}{2}$ miles southeast of the courthouse at **Fort Myers**, Lee County, on the Seaboard Air Line Railway, 36 feet east of the intersection of the Atlantic Coast Line Railroad, and 13 feet northwest of a pole. A standard disk, stamped "U 37 1933", and set in the top of a concrete post. (5.159 meters or 16.926 feet.)

FORT MYERS.—At **Fort Myers**, Lee County, at the county courthouse, 32 feet west of the center of the north main entrance, in the stone wall at the west end of the steps, 1 foot above the sidewalk. A standard disk, stamped "V 37 FORT MYERS 1932", and set vertically. (3.493 meters or 11.460 feet.)

Spur line to tidal bench marks at Fort Myers.

Tidal 4.—At **Fort Myers**, Lee County, at the southwest corner of First and Jackson Streets, on the north corner of the hexagonal base of the marble column of the Bank of Fort Myers. The top of the base. (2.412 meters or 7.913 feet.)

Tidal 3.—At **Fort Myers**, Lee County, at the southwest corner of Bay and Jackson Streets, about 1 foot north-northeast of the corner of a brick building, in the top of the sidewalk. A standard disk, stamped "B.M. 3 1927." (1.808 meters or 5.932 feet.)

Tidal 5 (U.S.E.)—At **Fort Myers**, Lee County, at the foot of Jackson Street, at the city dock, in the center line of the concrete sidewalk on the west side of the street, on the top of the concrete sea wall. A chiseled cross. (1.157 meters or 3.796 feet.)

Tidal 6.—At **Fort Myers**, Lee County at the southwest corner of Bay and Hendry Streets, about 12 feet from the storm sewer vent on Bay Street, and about 8 feet from the Hendry Street curb, in the sidewalk, 1.5 feet from the inside corner. A standard disk, stamped "NO. 6 1928." (1.535 meters or 5.036 feet.)

NOTE.—This mark replaces Tidal 2 which was destroyed by the removal of the broken sidewalk in which it had been embedded.

Tidal 1.—At **Fort Myers**, Lee County, near the northeast corner of Hendry and Bay Streets, in the floor of a gasoline filling station, about 0.5 foot from

the west edge, and 1 foot from the north edge. A standard disk, stamped "BM 1 NO. 1 1927." (1.519 meters or 4.984 feet.)

End of the spur line.

Spur line to tidal bench marks at Iona and Punta Rassa.

B 38.—In the southwest section of Fort Myers, Lee County, 23 feet east of the center line of the Fort Myers Beach Road, 34.8 feet south of the center line of the entrance to the M. E. Rountree Estate, 11 feet north of a 24-inch royal palm tree, and 10 feet west of the hedge around the lawn. A standard disk, stamped "B 38 1933" and set in the top of a concrete post. (3.281 meters or 10.764 feet.)

C 38.—About 6 miles south along the Fort Myers Beach Road from Fort Myers, Lee County, about 112 yards south of an east-and-west section line, 46 feet west of a north-and-south section-line fence, 33 feet southeast of the center line of the highway, and 29 feet west of a 12-inch pine tree marked by a triangular blaze with a nail in the center. A standard disk, stamped "C 38 1933" and set in the top of a concrete post. (2.449 meters or 8.035 feet.)

D 38.—About 9 miles south along the Fort Myers Beach Road from Fort Myers, Lee County, about 25 yards southwest of the Iona Mercantile Store, 31.5 feet northeast of the center line of Fort Myers Beach road, and 29 feet south of the center line of the Iona Road. A standard disk, stamped "D 38 1933" and set in the top of a concrete post. (1.978 meters or 6.489 feet.)

Tidal 3.—At Iona, Lee County, near Caloosahatchee River, in the fence line on the downstream side of a road leading to a line of piles, about 20 feet north of a bridge over a drainage ditch, and about 6 feet from the edge of the ditch. A standard disk, stamped "BM 3 1927" and set in the top of a 6-inch tile filled with concrete. (1.318 meters or 4.324 feet.)

Tidal 2.—At Iona, Lee County, near Caloosahatchee River, at the house downstream from the road leading to a line of piles, in the northwest corner of a concrete cistern wall. A standard disk, stamped "BM 2 1927" and set vertically. (1.367 meters or 4.485 feet.)

Tidal 5.—At Iona, Lee County, on the Caloosahatchee River, 26 feet from the high-water line of the river, about 95 feet west of the center line of a road, and 26 feet from a 10-inch palm tree marked by a blaze with a nail. A standard disk, stamped "BM 5 1928" and set in the top of an 8-inch tile filled with concrete and projecting about 6 inches above ground. (0.646 meter or 2.119 feet.)

Tidal 4.—At Iona, Lee County, on the Caloosahatchee River, on the east side of the road leading to a line of piles, just south of a house, on the top of a 2½-inch galvanized-iron pipe between an artesian well and the house, and a few inches from the elbow leading down into the well. A chiseled cross. (1.583 meters or 5.194 feet.)

E 38.—About 12 miles south of Fort Myers, Lee County, on McGregor Boulevard, 35.3 feet north of a section-line road to a colored beach, 24.7 feet northwest of the center line of the boulevard, and 18.9 feet southeast of an 18-inch pine tree. A standard disk, stamped "E 38 1933" and set in the top of a concrete post. (1.766 meters or 5.794 feet.)

Tidal 8.—In the south part of Punta Rassa, Lee County, at the second house east of the Western Union cable station, in the southwest corner of the concrete sidewalk. A standard disk, stamped "8." (0.916 meter or 3.005 feet.)

Tidal 7.—In the south part of Punta Rassa, Lee County, about 650 feet southeast of astronomical station Punta Rassa, at the southwest steps to the Western Union cable station, in the top of the lowest step in the southwest wall. A standard disk, stamped "7." (1.655 meters or 5.430 feet.)

Tidal 6.—At Punta Rassa, Lee County, 68 feet south of the south corner of the store, 57 feet south of a cocconut palm tree, 37 feet west of a cabbage palmetto tree, and 16 feet east of the corner of the macadam road. A standard disk, stamped "6" and set in the top of a concrete block. (0.854 meter or 2.802 feet.)

Tidal 5.—At Punta Rassa, Lee County, north of the store, in the approximate center of the top of an old brick pier, re-pointed with cement. A standard disk, stamped "5 MAG 1927." (1.445 meters or 4.741 feet.)

NOTE.—This brick structure is probably the Punta Rassa Astronomical Station of 1874.

Tidal 9.—At **Punta Rassa**, Lee County, north-northeast of the South Fish Co., in the top of the southeast corner of the south sea wall. A standard disk, stamped "9." (0.967 meter or 3.173 feet.)

End of the spur line.

W 37.—At **Fort Myers**, Lee County, at the crossing of the Atlantic Coast Line Railroad and the Seaboard Air Line Railway, 21.2 feet northwest of the northwest rail of the Atlantic Coast Line Railroad, and 11.8 feet east of the east rail of the Seaboard Air Line Railway. A standard disk, stamped "W 37 1933" and set in the top of a concrete post. (3.990 meters or 13.091 feet.)

X 37.—About 4 miles north along the Atlantic Coast Line Railroad from **Fort Myers**, Lee County, at **Tice**, in the south side of the dispatcher's office at the station, 14.6 feet north of the north rail, and 3 feet higher than the pavement. A standard disk, stamped "X 37 1933" and set vertically. (6.144 meters or 20.157 feet.)

Y 37.—At **Bayshore**, Lee County, about 137 yards northwest of the Atlantic Coast Line Railroad station, about 21 yards southeast of milepost 7, and 28.5 feet north of the north rail. A standard disk, stamped "Y 37 1933" and set in the top of a concrete post. (3.884 meters or 12.743 feet.)

Z 37.—About 3 miles north along the Atlantic Coast Line Railroad from **Bayshore**, Lee County, about 321 yards southeast of milepost 10, about 300 yards west of Slater's sawmill, 27.4 feet south of the south rail, and 15 feet west of a sand road. A standard disk, stamped "Z 37 1933" and set in the top of a concrete post. (6.298 meters or 20.663 feet.)

A 38.—At **Gilchrist**, Lee County, on the Atlantic Coast Line Railroad, about 170 yards northwest of the junction with the Seaboard Air Line Railway, about 97 yards northwest of milepost 13, and 8.5 feet southeast of the southeast rail, in the top of the concrete base of a signal tower. A standard disk, stamped "A 38 1933." (8.448 meters or 27.716 feet.)

F 38.—About 11.5 miles south along the Atlantic Coast Line Railroad from **Punta Gorda**, Charlotte County, 15 feet west of milepost 16, and 38.2 feet west of the west rail. A standard disk, stamped "F 38 1933" and set in the top of a concrete post. (7.716 meters or 25.315 feet.)

G 38.—About 8.5 miles south along the Atlantic Coast Line Railroad from **Punta Gorda**, Charlotte County, 13.3 feet west of milepost 19, and 39 feet west of the west rail. A standard disk, stamped "G 38 1933" and set in the top of a concrete post. (7.668 meters or 25.157 feet.)

H 38.—About 5.5 miles south along the Atlantic Coast Line Railroad from **Punta Gorda**, Charlotte County, at milepost 22, 43.2 feet south of the south rail. A standard disk, stamped "H 38 1933" and set in the top of a concrete post. (6.680 meters or 21.916 feet.)

J 38.—About 2.5 miles south along the Atlantic Coast Line Railroad from **Punta Gorda**, Charlotte County, 10 feet north of milepost 25, and 37.6 feet south of the south rail. A standard disk, stamped "J 38 1933" and set in the top of a concrete post. (1.381 meters or 4.531 feet.)

K 38.—At **Punta Gorda**, Charlotte County, in line with the north end of the Atlantic Coast Line Railroad station, about 11 yards south of the center line of Taylor Street, and 25.1 feet east of the east rail. A standard disk, stamped "K 38 1933" and set in the top of a concrete post. (1.700 meters or 5.577 feet.)

For additional bench marks in the vicinity of **Punta Gorda**, see page 68.

L 38.—At **Punta Gorda**, Charlotte County, at the south side of the county courthouse, in the top of the base of the third column from the east end. A standard disk, stamped "L 38 1933." (3.115 meters or 10.220 feet.)

Q 38.—At **Punta Gorda**, Charlotte County, on United States Highway 41, at the southwest corner of the Barron G. Collier Highway Bridge over Charlotte Harbor, in the top of the curb. A standard disk, stamped "Q 38 1933." (3.878 meters or 12.723 feet.)

M 38.—About 3 miles northwest along United States Highway 41 from **Punta Gorda**, Charlotte County, at the point where the high-tension line of the Florida Power Co. starts to parallel the highway, and 24 feet southwest of the center line of the highway. A standard disk, stamped "M 38 1933" and set in the top of a concrete post. (1.962 meters or 6.437 feet.)

N 38.—About 6 miles northwest along United States Highway 41 from **Punta Gorda**, Charlotte County, 12 feet south of pole 149 E 38, and 21 feet northeast of the center line of the highway. A standard disk, stamped "N 38 1933" and set in the top of a concrete post. (3.065 meters or 10.056 feet.)

P 38.—About 9 miles northwest along United States Highway 41 from **Punta Gorda**, Charlotte County, about 32 yards south of pole 9 N 12, and 23.3 feet north of the center line of the highway. A standard disk, stamped "P 38 1933" and set in the top of a concrete post. (4.031 meters or 13.225 feet.)

R 38.—About 12 miles northwest along United States Highway 41 from **Punta Gorda**, Charlotte County, 25 feet west of pole 12 N 4, 25 feet east of the east end of a guard rail, 20.7 feet north of the center line of the highway, and 4.5 feet south of a concrete post marked "S.P. 576.564 A." A standard disk, stamped "R 38 1933" and set in the top of a concrete post. (3.992 meters or 13.097 feet.)

S 38.—About 14 miles southeast along United States Highway 41 from **Venice**, Sarasota County, about 0.5 mile west of an oil-well derrick, near pole 14 N 17, about 150 feet west of a highway bridge, and 15 feet north of the center line of the highway. A standard disk, stamped "S 38 1933" and set in the top of a concrete post. (3.365 meters or 11.040 feet.)

T 38.—About 11 miles southeast along United States Highway 41 from **Venice**, Sarasota County, at the intersection with the Englewood road, about 270 feet east of a concrete post marked "F.A.P. 00-83", in the top of the north head wall of a concrete highway bridge. A standard disk, stamped "T 38 1933." (2.729 meters or 8.953 feet.)

U 38.—About 8 miles southeast along United States Highway 41 from **Venice**, Sarasota County, in the top of the north head wall of a concrete highway culvert. A standard disk, stamped "U 38 1933." (4.448 meters or 14.593 feet.)

V 38.—About 5 miles south along United States Highway 41 from **Venice**, Sarasota County, at the intersection with Shore Road and a high-tension line, and 20 feet west of the center line of the highway. A standard disk, stamped "V 38 1933" and set in the top of a concrete post. (4.824 meters or 15.827 feet.)

W 38.—At **Venice**, Sarasota County, at the intersection of United States Highway 41 and Rialto Street, 18 feet east of the east curb of Rialto Street, near a concrete post marked "S.P. 615." A standard disk, stamped "W 38 1933" and set in the top of a concrete post. (5.621 meters or 18.442 feet.)

X 38.—At **Venice**, Sarasota County, at the Seaboard Air Line Railway station, about 9 rails north of the center line of Venice Avenue, and 25 feet west of the center line of the track. A standard disk, stamped "X 38 1933" and set in the top of a concrete post. (2.364 meters or 7.756 feet.)

Y 38.—At **Laurel**, Sarasota County, on the Seaboard Air Line Railway, about 1 rail south of milepost 900, 30 feet west of the center line of the track, and 25 feet north of the center of a road crossing. A standard disk, stamped "Y 38 1933" and set in the top of a concrete post. (4.213 meters or 13.822 feet.)

Z 38.—About 1.3 miles south along the Seaboard Air Line Railway from **Osprey**, Sarasota County, about 990 feet south of milepost 897, and 39.2 feet east of the east rail. A standard disk, stamped "Z 38 1933" and set in the top of a concrete post. (4.027 meters or 13.212 feet.)

A 39.—About 1.7 miles north along the Seaboard Air Line Railway from **Osprey**, Sarasota County, about 1,600 feet south of milepost 894, and 38.5 feet east of the east rail. A standard disk, stamped "A 39 1933" and set in the top of a concrete post. (5.311 meters or 17.425 feet.)

B 39.—About 1 mile south along the Seaboard Air Line Railway from the station at **Bee Ridge**, Sarasota County, about 0.2 mile south of a highway crossing, 40 feet south of milepost 891, and 30 feet west of the west rail. A standard disk, stamped "B 39 1933" and set in the top of a concrete post. (7.747 meters or 25.417 feet.)

C 39.—About 2 miles north along the Seaboard Air Line Railway from **Bee Ridge**, Sarasota County, about 300 feet south of milepost 888, at the crossing of the road leading to the Palmer Corporation Estate, 45 feet west of the center line of the track, and 40 feet north of the center line of the road. A standard disk, stamped "C 39 1933" and set in the top of a concrete post. (7.390 meters or 24.245 feet.)

F 39.—At **Sarasota**, Sarasota County, 60 feet south of the southeast corner of the Seaboard Air Line Railway station, 17.8 feet north of the north curb of Main Street, and 16.7 feet west of the west rail, in the southeast corner of the lawn. A standard disk, stamped "F 39 1933" and set in the top of a concrete post. (5.235 meters or 17.175 feet.)

E 39.—At **Sarasota**, Sarasota County, at the Main Street entrance to the county courthouse, 42.1 feet south of the Main Street curb, and 7.4 feet east of the center line of the entrance to the west wing, in the top step. A standard disk, stamped "E 39 1933." (8.311 meters or 27.267 feet.)

D 39.—At **Sarasota**, Sarasota County, about 61 yards south of the Atlantic Coast Line Railroad station, 50.3 feet north of the center line of Ringling Boulevard, 32 feet west of the west rail of the south-bound track, 20.1 feet north of the north curb, and 5.2 feet north of the sidewalk. A standard disk, stamped "D 39 1933" and set in the top of a concrete post. (8.634 meters or 28.327 feet.)

G 39.—About 3 miles north along the Atlantic Coast Line Railroad from the station at **Sarasota**, Sarasota County, about 300 yards south of milepost T 49, 40 feet south of the DeSoto Road crossing, and 43.6 feet west of the west rail. A standard disk, stamped "G 39 1933" and set in the top of a concrete post. (6.349 meters or 20.830 feet.)

H 39.—At **Vanderipe**, Manatee County, at the Atlantic Coast Line Railroad station, about 200 yards north of milepost T 46, 77.4 feet north of the center of a dirt-road crossing, and 29.3 feet east of the east rail, in line with the north end of the loading platform. A standard disk, stamped "H 39 1933" and set in the top of a concrete post. (6.217 meters or 20.397 feet.)

J 39.—About 3 miles south along the Atlantic Coast Line Railroad from **Bradenton**, Manatee County, about 2,900 feet north of the road at Ellwood Park, about 275 yards north of milepost T 43, 26 feet south of the center line of a dirt road, and 25.3 feet east of the east rail. A standard disk, stamped "J 39 1933" and set in the top of a concrete post. (8.564 meters or 28.097 feet.)

L 39.—At **Bradenton**, Manatee County, directly west of the north end of the Atlantic Coast Line Railroad station, about 325 feet north of Manatee Avenue, and 32.8 feet west of the west rail. A standard disk, stamped "L 39 1933" and set in the top of a concrete post. (3.752 meters or 12.310 feet.)

K 39.—At **Bradenton**, Manatee County, about 300 feet north of the Bradenton-Manatee station of the Seaboard Air Line Railway, 27.9 feet south of the center line of Manatee Avenue, 16.4 feet east of the east rail of the main track, and 2.2 feet north of the sidewalk. A standard disk, stamped "K 39 1933" and set in the top of a concrete post. (3.667 meters or 12.031 feet.)

Spur line to tidal bench marks at Bradenton.

M 39.—At **Bradenton**, Manatee County, at the county courthouse, in the north face of the column on the northeast corner of the building, 4.4 feet above the ground. A standard disk, stamped "M 39 1933" and set vertically. (7.027 meters or 23.054 feet.)

Tidal 3.—At **Bradenton**, Manatee County, on Main Street, at the southeast corner of the Manavista Hotel, near a pillar, about 2 feet north of the line of prolongation of the south wall of the hotel, in the inner edge of the sidewalk. A standard disk. (4.527 meters or 14.852 feet.)

NOTE.—The sidewalk around the disk has cracked and appears to have heaved or settled near the mark.

End of the spur line.

N 39.—At the north edge of **Palmetto**, Manatee County, on the Atlantic Coast Line Railroad, at the intersection of Cherry and Elm Streets, 27.8 feet east of the east rail, 25.6 feet south of the center line of Elm Street, 13 feet west of the center line of the west drive of Cherry Street, and 2.7 feet west of the curb. A standard disk, stamped "N 39 1933" and set in the top of a concrete post. (4.227 meters or 13.868 feet.)

P 39.—At **Taru**, Manatee County, at the Atlantic Coast Line Railroad station, about 480 yards north of milepost T 36, 34 feet east of the east rail, and 33.3 feet north of the center line of a shell road. A standard disk, stamped "P 39 1933" and set in the top of a concrete post. (6.381 meters or 20.935 feet.)

Q 39.—About 0.7 mile north along the Atlantic Coast Line Railroad from **Gillett**, Manatee County, about 1,325 feet south of milepost T 33, 38 feet south of the center line of United States Highway 541, and 34.8 feet west of the west rail. A standard disk, stamped "Q 39 1933" and set in the top of a concrete post. (4.641 meters or 15.226 feet.)

R 39.—At **Piney Point**, Manatee County, about 10 yards south of the Atlantic Coast Line Railroad station, about 360 yards south of milepost T 30, 18.2 feet west of the west rail, and 15 feet north of the center line of an oiled road. A standard disk, stamped "R 39 1933" and set in the top of a concrete post. (3.738 meters or 12.264 feet.)

S 39.—In Hillsborough County, about 3 miles north along the Atlantic Coast Line Railroad from **Piney Point**, Manatee County, 80 feet south of milepost T 27, 50.5 feet east of the east rail, and 42.5 feet west of the center line of United States Highway 541. A standard disk, stamped "S 39 1933" and set in the top of a concrete post. (5.014 meters or 16.450 feet.)

T 39.—About 2 miles south along the Atlantic Coast Line Railroad from **Ruskin**, Hillsborough County, directly east of milepost T 24, 51.6 feet east of the east rail, and 35 feet west of the center line of United States Highway 541. A standard disk, stamped "T 39 1933" and set in the top of a concrete post. (5.967 meters or 19.577 feet.)

U 39.—At **Ruskin**, Hillsborough County, about 40 yards northeast of the northeast end of the Atlantic Coast Line Railroad station, about 35 yards southwest of the crossing of United States Highway 541, 62 feet southwest of a switch point, 34 feet west of the center line of the highway, and 21 feet southeast of the center line of the track. A standard disk, stamped "U 39 1933" and set in the top of a concrete post. (2.924 meters or 9.593 feet.)

V 39.—About 3¾ miles north along the Atlantic Coast Line Railroad from **Ruskin**, Hillsborough County, about 1,200 feet south of milepost T 18, 81 feet north of a pole, and 43 feet west of the center line of the track. A standard disk, stamped "V 39 1933" and set in the top of a concrete post. (3.381 meters or 11.092 feet.)

W 39.—About 7 miles north along the Atlantic Coast Line Railroad from **Ruskin**, Hillsborough County, about 200 yards south of milepost T 15, 71 feet south of the center of a dirt-road crossing, 43 feet west of the center line of the track, and 5½ feet southwest of a pole. A standard disk, stamped "W 39 1933" and set in the top of a concrete post. (3.512 meters or 11.522 feet.)

X 39.—At **Remlap**, Hillsborough County, about 75 yards north of the Atlantic Coast Line Railroad station, about 40 yards south of the south end of a railroad bridge, 33 feet west of the center line of the track, and 32 feet north of the center line of a shell-road crossing. A standard disk, stamped "X 39 1933" and set in the top of a concrete post. (3.020 meters or 9.908 feet.)

Y 39.—About 9 miles south along the Atlantic Coast Line Railroad from Union Station at **Tampa**, Hillsborough County, 49 feet south of milepost T 9, about 300 feet north of a double 6- by 6-foot concrete culvert, about 35 yards west of the center line of United States Highway 541, and 56.5 feet east of the center line of the track. A standard disk, stamped "Y 39 1933" and set in the top of a concrete post. (1.690 meters or 5.545 feet.)

Z 39.—About 6 miles south along the Atlantic Coast Line Railroad from Union Station at **Tampa**, Hillsborough County, 50 feet north of the center line of a paved road to Twenty-second Street Causeway, and 33 feet east of the center line of the track. A standard disk, stamped "Z 39 1933" and set in the top of a concrete post. (3.446 meters or 11.306 feet.)

A 40.—About 4¼ miles south along the Atlantic Coast Line Railroad from Union Station at **Tampa**, Hillsborough County, 54.5 feet south of the south side of the station at **Palm**, 39.6 feet north of the center line of a road, and 29.2 feet west of the center line of the track. A standard disk, stamped "A 40 1933" and set in the top of a concrete post. (3.222 meters or 10.571 feet.)

For additional bench marks in the vicinity of Tampa, see pages 50 and 51.

Spur line to tidal bench marks at Sedden Island and St. Petersburg.

Tidal 2.—At **Tampa**, Hillsborough County, at the Twigg Street entrance to the post office, on the left-hand side upon entering the building, in the corner made by the wall running to the building and the building wall. A standard disk. (6.955 meters or 22.818 feet.)

TAMPA.—At Tampa, Hillsborough County, at the intersection of Lafayette Street and Florida Avenue, on the east side of the city hall, 4.3 feet south of the northeast corner, in the granite pilaster, 1 foot above the sidewalk. A standard disk, stamped "TAMPA 1932" and set vertically. (5.947 meters or 19.511 feet.)

Tidal 1.—At Tampa, Hillsborough County, at the Florida Avenue entrance to the city hall, on the right-hand side upon entering the building, about 60 feet from the corner, in a niche of the building. A standard disk. (5.533 meters or 18.153 feet.)

Tidal 3.—At Tampa, Hillsborough County, on the Platt Street bridge over Hillsborough River, on the Water Street side, beside the bridge house, in the corner made by the wall, in the top of the rise. A standard disk. (6.195 meters or 20.325 feet.)

J 40.—At Tampa, Hillsborough County, on the Atlantic Coast Line Railroad, 35.4 feet south of the south curb line of the Bay-to-Bay Boulevard, 38.8 feet southeast of the center line of the track, and 19.9 feet south of a pole. A standard disk, stamped "J 40 1933" and set in the top of a concrete post. (5.159 meters or 16.926 feet.)

K 40.—About 5 miles southwest along the Atlantic Coast Line Railroad from the post office at Tampa, Hillsborough County, 36.5 feet northwest of the center line of the track, 23.3 feet south of the center line of Gandy Boulevard, and 3.3 feet south of the south curb. A standard disk, stamped "K 40 1933" and set in the top of a concrete post. (4.161 meters or 13.652 feet.)

Tidal G 1.—About 7 miles southwest of the post office at Tampa, Hillsborough County, on the Gandy Bridge across Old Tampa Bay, about due north of station 274+50, about 210 feet north of a point 105 feet east of the northeast corner of the east tollhouse, on the center line of the east approach to the bridge, and about 10 paces east of the water's edge. A standard disk, set in the top of a 12-inch concrete post. (0.971 meter or 3.186 feet.)

Tidal G 3.—About 8 miles southwest of the post office at Tampa, Hillsborough County, on the Gandy Bridge across Old Tampa Bay, in the top of the north curb, about 305 feet west of the east end of the curb. A standard disk. (2.967 meters or 9.734 feet.)

Tidal G 4.—About $9\frac{1}{2}$ miles southwest of the post office at Tampa, Hillsborough County, on the Gandy Bridge across Old Tampa Bay, about 1 mile east of the west end of the bridge, in the top of the south curb, opposite the previous location of the tide-gage house. A standard disk. (2.922 meters or 9.587 feet.)

Tidal G 5.—About $10\frac{1}{2}$ miles southwest of the post office at Tampa, Hillsborough County, on the Gandy Bridge across Old Tampa Bay, in the top of the north curb, 28 feet east of the west end of the curb. A standard disk. (2.930 meters or 9.613 feet.)

Tidal G 6.—About 8 miles north of the post office at St. Petersburg, Pinellas County, on the causeway of the Gandy Bridge across Old Tampa Bay, near the outer line of islands bordering the west shore of the bay, and about 100 feet east of a point 35 feet north of the northeast corner of the west tollhouse. A standard disk, set in the top of a concrete block. (1.432 meters or 4.698 feet.)

L 40.—About 7 miles north of the post office at St. Petersburg, Pinellas County, 48 feet south of the center line of Gandy Boulevard, 46 feet west of the center line of a street to the St. Petersburg Kennel Club, and 16 feet west of a lamppost. A standard disk, stamped "L 40 1933" and set in the top of a concrete post. (1.326 meters or 4.350 feet.)

M 40.—At the north side of St. Petersburg, Pinellas County, 38 feet south of the center line of Washington Boulevard, 38 feet west of the center line of Fourth Street, 14.4 feet northwest of ornamental light pole 28400, and 5.4 feet southwest of high tension pole 62. A standard disk, stamped "M 40 1933" and set in the top of a concrete post. (2.278 meters or 7.474 feet.)

ST. PETERSBURG.—At St. Petersburg, Pinellas County, at the post office, 31.7 feet south of the south curb of First Avenue North, 28.0 feet west of the west curb of Fourth Street, and 3.8 feet south of the northeast corner of the northeast column, in the top of the base. A standard disk, stamped "ST. PETERSBURG 1932." (11.250 meters or 36.909 feet.)

Tidal 7.—At St. Petersburg, Pinellas County, at the corner of Central Avenue and Second Street, at the old First National Bank building, on the east side of a marble doorstep. A chiseled cross. (6.169 meters or 20.239 feet.)

Tidal 6.—At **St. Petersburg**, Pinellas County, at the Atlantic Coast Line Railroad Dock, at the foot of Central Avenue, on the top of the southwest pier of the Weather Bureau tower. A chiseled cross. (1.548 meters or 5.079 feet.)

Tidal 12.—At **St. Petersburg**, Pinellas County, at the Atlantic Coast Line Railroad Dock, at the intersection of the north curb line of Central Avenue and the west edge of the West Yacht Basin wall. The top of an inverted U-shaped 3-inch pipe, projecting 6 inches above the edge of the wall. (1.513 meters or 4.964 feet.)

Tidal 13.—At **St. Petersburg**, Pinellas County, at the Atlantic Coast Line Railroad Dock, at the foot of First Avenue North, at the south edge of the wharf, on the top of the West Yacht Basin wall. A chiseled cross, flanked by the letters "B.M." (1.442 meters or 4.731 feet.)

Tidal 5.—At **St. Petersburg**, Pinellas County, at the Atlantic Coast Line Railroad Dock, at the Yacht Basin, at the east edge of slip 92, in the top of the north wall of the basin, at a bend in the wall from a southwesterly direction to a direction parallel to Second Avenue North. A standard disk, stamped "NO. 5 1925." (1.452 meters or 4.764 feet.)

Tidal 4.—At **St. Petersburg**, Pinellas County, at the Atlantic Coast Line Railroad Dock, near the entrance to the Yacht Basin, in the top of the north wall. A standard disk, stamped "NO. 4 1925." (1.439 meters or 4.721 feet.)

Tidal 1.—At **St. Petersburg**, Pinellas County, at the Atlantic Coast Line Railroad Dock, near the entrance to the Yacht Basin, in the top of the south wall, at the bend. A standard disk. (1.408 meters or 4.619 feet.)

Tidal 8.—At **St. Petersburg**, Pinellas County, at the northeast corner of Second Avenue South and Second Street South, on the southeast side of the dome-shaped top of a hydrant. The head of the southeast bolt. (5.523 meters or 18.120 feet.)

Tidal 9.—At **St. Petersburg**, Pinellas County, at the northwest corner of Second Street South and Fourth Avenue South, on the southeast side of the top of the dome-shaped cover of a hydrant. The head of a small screw. (4.358 meters or 14.298 feet.)

Tidal 10.—At **St. Petersburg**, Pinellas County, at the northwest corner of First Street South and Seventh Avenue South, in the flange holding the dome-shaped cover of a fire hydrant. The head of the west bolt. (1.912 meters or 6.273 feet.)

End of spur line.

B 40.—At the north side of **Tampa**, Hillsborough County, 51.5 feet north of the center line of United States Highway 92 (Hillsborough Avenue), 49.5 feet west of the center line of the Seaboard Air Line Railway track, 19.2 feet north of a power-transmission pole, and 19.2 feet northwest of a telegraph pole. A standard disk, stamped "B 40 1933" and set in the top of a concrete post. (17.236 meters or 56.548 feet.)

C 40.—At **Sulphur Springs**, Hillsborough County, about 200 yards north of the Seaboard Air Line Railway station, 47.4 feet northeast of the center line of an asphalt-blocked paved road, 37.6 feet northwest of a switch point, 28.7 feet west of the center line of the track, and 20.7 feet north of a pole. A standard disk, stamped "C 40 1933" and set in the top of a concrete post. (13.050 meters or 42.815 feet.)

D 40.—About 3½ miles north along the Seaboard Air Line Railway from **Sulphur Springs**, Hillsborough County, about ¼ mile north of milepost 835, 29 feet north of the center line of a shell road, 26 feet west of the center line of the track, 24 feet east of a fence corner, and 9½ feet north of a pole. A standard disk, stamped "D 40 1933" and set in the top of a concrete post. (15.642 meters or 51.319 feet.)

E 40.—About 6 miles north along the Seaboard Air Line Railway from **Sulphur Springs**, Hillsborough County, about 350 yards south of milepost 832, 58 feet east of the center line of the highway, 32 feet north of the center line of Whitaker Road, 29 feet northeast of a pole, and 25 feet west of the center line of the track. A standard disk, stamped "E 40 1933" and set in the top of a concrete post. (18.771 meters or 61.585 feet.)

F 40.—At **Lutz**, Hillsborough County, about 50 yards north of the Seaboard Air Line Railway station, 43 feet west of the center line of the highway, 39½ feet east of the center line of the track, 27 feet south of the center line of a dirt road, and 13 feet southwest of a pole. A standard disk, stamped "F 40 1933" and set in the top of a concrete post. (21.581 meters or 70.804 feet.)

G 40.—In Pasco County, about 3.8 miles north along the Seaboard Air Line Railway from Lutz, Hillsborough County, opposite milepost 826, 42 feet east of the center line of the track, 40 feet west of the center line of the highway, and 38 feet north of a pole. A standard disk, stamped "G 40 1933" and set in the top of a concrete post. (22.642 meters or 74.285 feet.)

H 40.—At Drexel, Pasco County, at the crossing of the Seaboard Air Line Railway and the Atlantic Coast Line Railroad, 98 feet southwest of the southwest corner of the interlocking tower, 64.5 feet southwest of the center of the crossing, 43.5 feet west of the center line of the Seaboard Air Line Railway track, and 34.5 feet south of the center line of the Atlantic Coast Line Railroad track. A standard disk, stamped "H 40 1933" and set in the top of a concrete post. (22.380 meters or 73.425 feet.)

74.6.—About $\frac{3}{4}$ mile north along the Seaboard Air Line Railway from Drexel, Pasco County, 9 feet west of the center line of the track, on the top of the northeast corner of the concrete foundation of a signal post. A chiseled point. (22.750 meters or 74.639 feet.)

N 40.—About 1 mile north along the Seaboard Air Line Railway from the Atlantic Coast Line Railroad crossing at Drexel, Pasco County, $42\frac{1}{2}$ feet east of the center line of the track, and 10 feet north of a switch point. A standard disk, stamped "N 40 1933" and set in the top of a concrete post. (21.932 meters or 71.955 feet.)

P 40.—About $3\frac{1}{4}$ miles south along the Seaboard Air Line Railway from Fivay, Pasco County, about 200 yards northwest of the edge of a lake about $\frac{1}{4}$ mile in diameter, 8 feet north of milepost 820, 74 feet northwest of a 10-inch pine tree, 36.5 feet west of an 8-inch pine tree, and 23.8 feet east of the center line of the track. A standard disk, stamped "P 40 1933" and set in the top of a concrete post. (21.848 meters or 71.680 feet.)

Q 40.—At Fivay, Pasco County, about 300 yards north of the Seaboard Air Line Railway station, about $\frac{1}{4}$ mile north of milepost 817, 41 feet south of the center line of the road to New Port Richey, and 23.5 feet east of the center line of the main track. A standard disk, stamped "Q 40 1933" and set in the top of a concrete post. (23.024 meters or 75.538 feet.)

R 40.—About $2\frac{3}{4}$ miles north along the Seaboard Air Line Railway from Fivay, Pasco County, about 320 yards southwest of milepost 814, 53 feet south of a 12-inch pine tree, 41 feet northwest of the center line of the track, 38 feet east of the center line of the highway, and 9 feet northeast of a pole. A standard disk, stamped "R 40 1933" and set in the top of a concrete post. (21.452 meters or 70.380 feet.)

S 40.—About $2\frac{1}{4}$ miles north along the Seaboard Air Line Railway from Loyce, Pasco County, about 40 yards north of milepost 810, 42 feet west of the west rail, and 25 feet south of the center of a road crossing. A standard disk, stamped "S 40 1933" and set in the top of a concrete post. (19.354 meters or 63.497 feet.)

T 40.—About $5\frac{1}{4}$ miles north along the Seaboard Air Line Railway from Loyce, Pasco County, about 28 yards south of milepost 807, and 27 feet west of the west rail. A standard disk, stamped "T 40 1933" and set in the top of a concrete post. (19.591 meters or 64.275 feet.)

U 40.—About 6.2 miles south along the Seaboard Air Line Railway from Brooksville, Hernando County, about 350 feet north of a dirt-road crossing, 38 feet south of milepost 804, and 33 feet west of the west rail. A standard disk, stamped "U 40 1933" and set in the top of a concrete post. (26.713 meters or 87.641 feet.)

V 40.—About 2.2 miles south along the Seaboard Air Line Railway from Brooksville, Hernando County, 20 feet south of milepost 800, and 28.1 feet east of the east rail. A standard disk, stamped "V 40 1933" and set in the top of a concrete post. (32.354 meters or 106.148 feet.)

W 40.—About 0.5 mile south along the Seaboard Air Line Railway from Brooksville, Hernando County, about 15 yards south of the center line of a dirt road along the north side of the packing house of Gentile Bros., about 30 feet north of an abandoned crossing of a spur line of the Atlantic Coast Line Railroad, 22.6 feet southwest of a crossing gatepost, and 19.2 feet west of the west rail. A standard disk, stamped "W 40 1933" and set in the top of a concrete post. (41.368 meters or 135.722 feet.)

X 40.—At Brooksville, Hernando County, 27.8 feet south of the Seaboard Air Line Railway station, about 310 yards north of milepost 798, 24 feet east of the east rail, and about 3 feet southwest of a pole. A standard disk,

stamped "X 40 1933" and set in the top of a concrete post. (42.219 meters or 138.514 feet.)

Y 40.—At **Brooksville**, Hernando County, in the southwest corner of the county courthouse lawn, 57 feet north of the center line of State Highway 5, and 52 feet east of the center line of Main Street, in the top of the west corner of the base of the Confederate Soldiers' monument. A standard disk, stamped "Y 40 1933." (63.753 meters or 209.163 feet.)

Z 40.—About $3\frac{3}{4}$ miles north along the Seaboard Air Line Railway from **Brooksville**, Hernando County, 4 feet north of milepost 794, and 9.2 feet west of the west rail. A standard disk, stamped "Z 40 1933" and set in the top of a concrete post. (31.448 meters or 103.176 feet.)

A 41.—About 7.7 miles north along the Seaboard Air Line Railway from **Brooksville**, Hernando County, about 500 feet south of milepost 790, 16.2 feet north of the center line of an oiled road, and 8.2 feet east of the east rail. A standard disk, stamped "A 41 1933" and set in the top of a concrete post. (26.594 meters or 87.250 feet.)

B 41.—In Hernando County, about 4.5 miles south along the Seaboard Air Line Railway from **Floral City**, Citrus County, about 840 yards north of milepost 787, 48.3 feet south of a dirt-road crossing, and 24.6 feet east of the east rail. A standard disk, stamped "B 41 1933" and set in the top of a concrete post. (28.527 meters or 93.592 feet.)

C 41.—About 1 mile south along the Seaboard Air Line Railway from **Floral City**, Citrus County, about 100 yards north of milepost 783, 42.3 feet east of the east rail, and 20 feet south of a sand road. A standard disk, stamped "C 41 1933" and set in the top of a concrete post. (35.715 meters or 117.175 feet.)

D 41.—About $3\frac{1}{4}$ miles south along the Seaboard Air Line Railway from **Inverness**, Citrus County, about 180 yards south of milepost 779, 44 feet north of the center line of a dirt road, and 25.1 feet east of the east rail. A standard disk, stamped "D 41 1933" and set in the top of a concrete post. (20.645 meters or 67.733 feet.)

E 41.—At **Inverness**, Citrus County, about 93 yards south of the Seaboard Air Line Railway station, 50 feet north of the center line of a paved-road crossing, and 23.3 feet east of the east rail. A standard disk, stamped "E 41 1933" and set in the top of a concrete post. (25.725 meters or 84.399 feet.)

F 41.—At **Inverness**, Citrus County, at the west entrance to the county courthouse, in the top of the southwest corner of the second step. A standard disk, stamped "F 41 1933." (15.298 meters or 50.190 feet.)

G 41.—About $2\frac{1}{2}$ miles north along the Seaboard Air Line Railway from **Inverness**, Citrus County, about 2.200 feet south of milepost 773, 35 feet south of a dirt-road crossing, and 27 feet east of the east rail. A standard disk, stamped "G 41 1933" and set in the top of a concrete post. (16.004 meters or 52.506 feet.)

H 41.—About 6 miles north along the Seaboard Air Line Railway from **Inverness**, Citrus County, about 550 feet north of milepost 770, 20 feet north of a crossing, and 13.6 feet west of the west rail. A standard disk, stamped "H 41 1933" and set in the top of a concrete post. (19.305 meters or 63.336 feet.)

J 41.—About 7 miles north along the Seaboard Air Line Railway from **Inverness**, Citrus County, at **Felicia**, about 395 feet north of the switch office at the Atlantic Coast Line Railroad crossing, about 625 feet north of milepost 769, 53.4 feet south of the center line of United States Highway 41, and 23.7 feet west of the west rail. A standard disk, stamped "J 41 1933" and set in the top of a concrete post. (16.612 meters or 54.501 feet.)

K 41.—In Citrus County, about 6 miles south along the Seaboard Air Line Railway from **Dunnellon**, Marion County, about 1.670 feet south of milepost 766, 35 feet north of a road crossing, and 21.5 feet west of the west rail. A standard disk, stamped "K 41 1933" and set in the top of a concrete post. (17.691 meters or 58.041 feet.)

L 41.—In Citrus County, about 3 miles south along the Seaboard Air Line Railway from **Dunnellon**, Marion County, about 220 feet north of milepost 763, and 17.4 feet west of the west rail. A standard disk, stamped "L 41 1933" and set in the top of a concrete post. (24.216 meters or 79.449 feet.)

For additional bench marks in the vicinity of Dunnellon, see pages 57-60.

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