

Serial No. 177

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

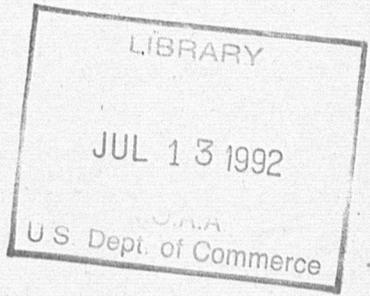
E. LESTER JONES, Director

PRECISE LEVELING IN TEXAS

BY

H. G. AVERS

Mathematician



Special Publication No. 77



QB
 275
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 no. 77
 (1922)

PRICE, 15 CENTS

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PRECISE LEVELING IN TEXAS.

By H. G. AYERS, *Mathematician, United States Coast and Geodetic Survey.*

GENERAL STATEMENT.

This volume contains the standard elevations and descriptions of all permanent bench marks in the State of Texas that were determined by precise leveling. There are also included the elevations of supplementary points, such as marks on masonry, spikes in poles, and the elevation of the top of rail in front of the railroad stations.

Details in regard to the methods, accuracy and cost of the work are purposely omitted, as it is desired to make this essentially a field book. Any one interested in these data for similar work is referred to our Special Publications Nos. 18, 22, and 39, copies of which can be obtained by writing to the Director, United States Coast and Geodetic Survey, Washington, D. C.

THE PRECISE LEVEL NET OF THE UNITED STATES.

About 46,000 miles of precise leveling have been run in the United States. Of this amount the Coast and Geodetic Survey did about 29,000 miles, the remainder having been done by the United States Geological Survey, the Corps of Engineers, United States Army, the Mississippi River Commission, the Missouri River Commission, the United States Lake Survey, the Pennsylvania Railroad, the Baltimore & Ohio Railroad, and the Buffalo, Rochester & Pittsburgh Railway. This vast network of leveling enters all but 5 States of the Union and forms over 100 circuits. It is desired ultimately to have the net cover the country in such a way that no place will be more than 50 miles from a standard bench mark.

There have been four general adjustments of the precise level net of the United States, each succeeding adjustment having become necessary by the addition of new lines to the net. The fourth and last adjustment was made in 1912, the net at that time being composed of about 29,000 miles of leveling.

The successive adjustments necessarily gave different values for the elevations of the bench marks, and the changes in certain sections of the country were of such sizes that the older values could not be held. The last adjustment shows that the net is sufficiently extended and the leveling of such strength and accuracy that the elevations can be considered as standard. So far as surveying and engineering purposes are concerned, they may be held for an indefinite period, or even for all time.

The lines run since the last adjustment have been fitted to the net without in any way disturbing the previously adopted elevations.

From time to time in the future, general adjustments of the level net will no doubt be made to obtain the theoretically best elevations of the junction points, but such adjustments will not disturb the standard elevations, unless they are found to be appreciably in error on account of blunders in the leveling or because of the disturbance of the marks.

THE PRECISE LEVEL NET IN TEXAS.

The Texas portion of the precise level net comprises the following level lines, totaling 3,970 miles in length and fixing the elevations of 1,802 permanent bench marks:

- I. Bowie, Tex., to Anthony, Kans. (part).
- II. Bowie, Tex., to Shreveport, La. (part).
- III. Fort Worth to Comanche, Tex.
- IV. Fort Worth to Lampasas, Tex.
- V. Temple to Holland, Tex.
- VI. Holland to New Braunfels, Tex.
- VII. Albuquerque, N. Mex., to El Paso, Tex. (part).
- VIII. Smithville to Galveston, Tex.
- IX. El Reno, Okla., to Jericho, Tex. (part).
- X. Fort Worth to El Paso, Tex.
- XI. Jericho, Tex., to Isleta, N. Mex. (part).
- XII. Clovis, N. Mex., to Pecos, Tex. (part).
- XIII. Sierra Blanca to San Antonio, Tex.
- XIV. New Braunfels to Brownsville to Point Isabel, Tex.
- XV. San Antonio to Laredo, Tex.
- XVI. Sinton, Tex., to New Orleans, La. (part).
- XVII. Harlingen to Eagle Pass, Tex.
- XVIII. Hillsboro, Tex., to Shreveport, La. (part).

Lines I to XI, inclusive, totaling 1,816 miles, entered into the 1912 adjustment of the precise level net, and the remaining lines have been fitted to this work.

Line XII was fitted to the standard elevations at Pecos, Tex., and Clovis, N. Mex.

Lines XIII, XIV, XV, and XVII, and the portion of Line XVI between Sinton and Houston were fitted, by a single adjustment, to the standard elevations at Sierra Blanca, New Braunfels, and Houston.

The portion of Line XVI between Houston, Tex., and New Orleans, La., was fitted to the standard elevations at those places.

Line XVIII was fitted to the standard elevations at Hillsboro, Tex., and Shreveport, La.

BENCH MARKS.

Various types of bench marks have been used to indicate the point of which the elevation was determined. On the earlier lines bolts and square cuts or outlined squares in masonry were used while a little later the stone post with a square cut in the top was introduced.

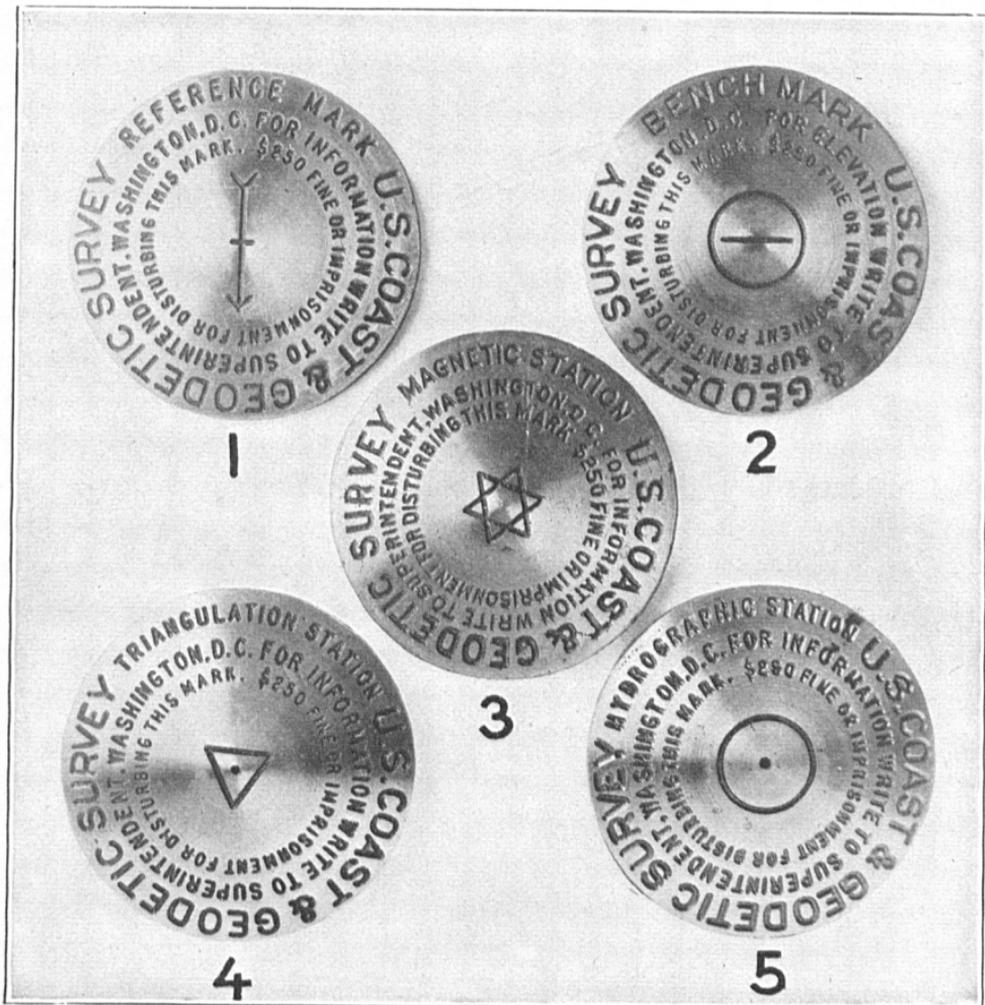


FIG. A.—STANDARD MARKS OF THE U. S. COAST AND GEODETIC SURVEY.

1. Reference mark.
2. Bench mark.
3. Magnetic station mark.
4. Triangulation station mark.
5. Hydrographic station mark.

The latest form of bench mark is the brass disk (see fig. A) which is set in substantial buildings, outcropping rocks, masonry structures of all kinds, and in the tops of stone or concrete posts. In future leveling of this Survey no bench mark is to be considered permanent unless marked by the regulation disk.

All permanent bench marks of this Survey are given a designating letter followed by a number. Where the brass disk has been used the designation and the year in which the mark was established is stamped on it.

Bench marks of other organizations with which connections were made were given a United States Coast and Geodetic Survey designation followed by the initials of the organization which established the mark. In no case, however, was the designation placed on the mark.

ORTHOMETRIC CORRECTION.

The orthometric correction was applied to the results of all the leveling in Texas. This correction had only a slight effect on the lines in the eastern part of the State, where the elevations are low. (See Special Publication No. 18, p. 49.)

The lines fixing the high altitudes in the western part of the State received corrections amounting to about 1 decimeter. These large corrections are due to the fact that the lines start at practically sea level and end on an elevation of about 1,400 meters.

ELEVATIONS.

The standard elevations in Texas are controlled almost entirely by the mean sea level connection at Galveston. The value used in the 1912 adjustment of the precise level net was a reading corresponding to 3.430 feet (1.0455 meters) on the present tide staff. This value was the result of three years of observations, December 1, 1903, to November 29, 1906. The tide gauge at Galveston has been maintained uninterruptedly since 1903, and the mean of all the yearly values for 17 years on this same staff is 3.442 feet.

All elevations are given in meters and feet above mean sea level. The elevations of the permanent bench marks are given to millimeters. This does not imply that the millimeters are known. For bench marks not more than 2 kilometers apart the difference in elevation is uncertain in the millimeters; for those which are from 2 to 200 kilometers apart the centimeters are also uncertain, and for greater distances there may be in some cases an uncertainty in the decimeters. Similarly, the uncertainty in the absolute elevations varies with the distance from the nearest tidal connection.

ARRANGEMENT OF DATA.

The lines are arranged chronologically and numbered in the order that they were run. For each line there are given the permanent bench marks whose elevations were determined by the leveling along that line. If the line starts or ends on old bench marks, the data in regard to these bench marks are given with the data for the line which established their elevations.

The introduction at the head of each line contains the name of the officer in charge of the field work, the dates between which the work was done, and the route followed by the line.

The elevations of the temporary bench marks and the elevations of the top of the rail in front of the railroad stations are included in the lists following those containing the permanent bench marks, and the lines are numbered for these lists of supplementary elevations the same as for the lists of permanent marks.

EXPLANATION OF SKETCHES AND INDEX.

Opposite this page is an index sketch showing the general location of all the precise level lines in Texas. On the index sketch are indicated also the limits of the larger scale sketches which show in detail the route of the lines and the cities and towns at or near which the bench marks were placed.

Each bench mark is indexed by the names of the town and county which appear in the description.

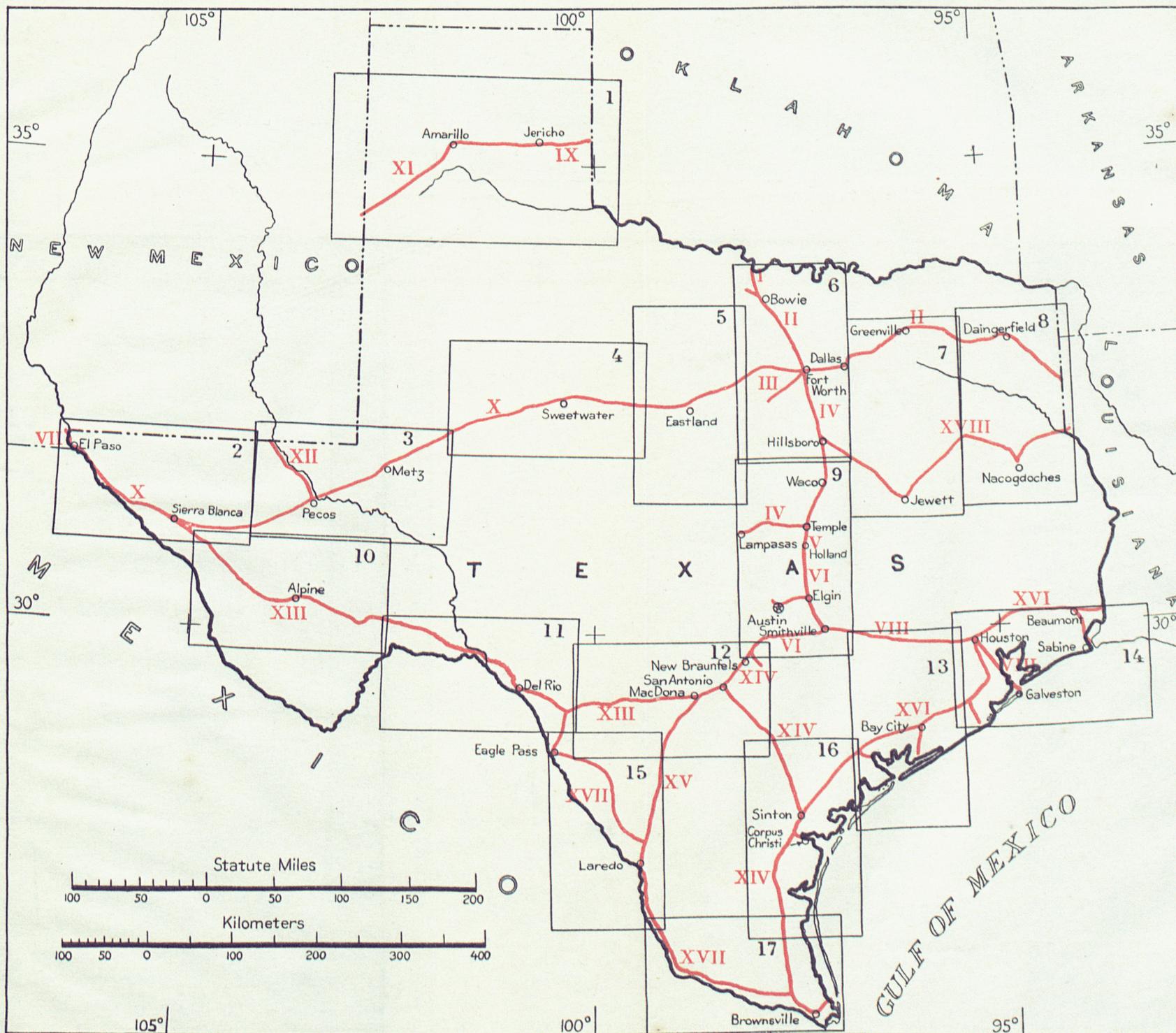


FIG. B.—INDEX MAP OF TEXAS SHOWING THE LOCATION OF THE VARIOUS PRECISE LEVELING LINES AND THE BOUNDARIES OF FIGURES 1 TO 17.

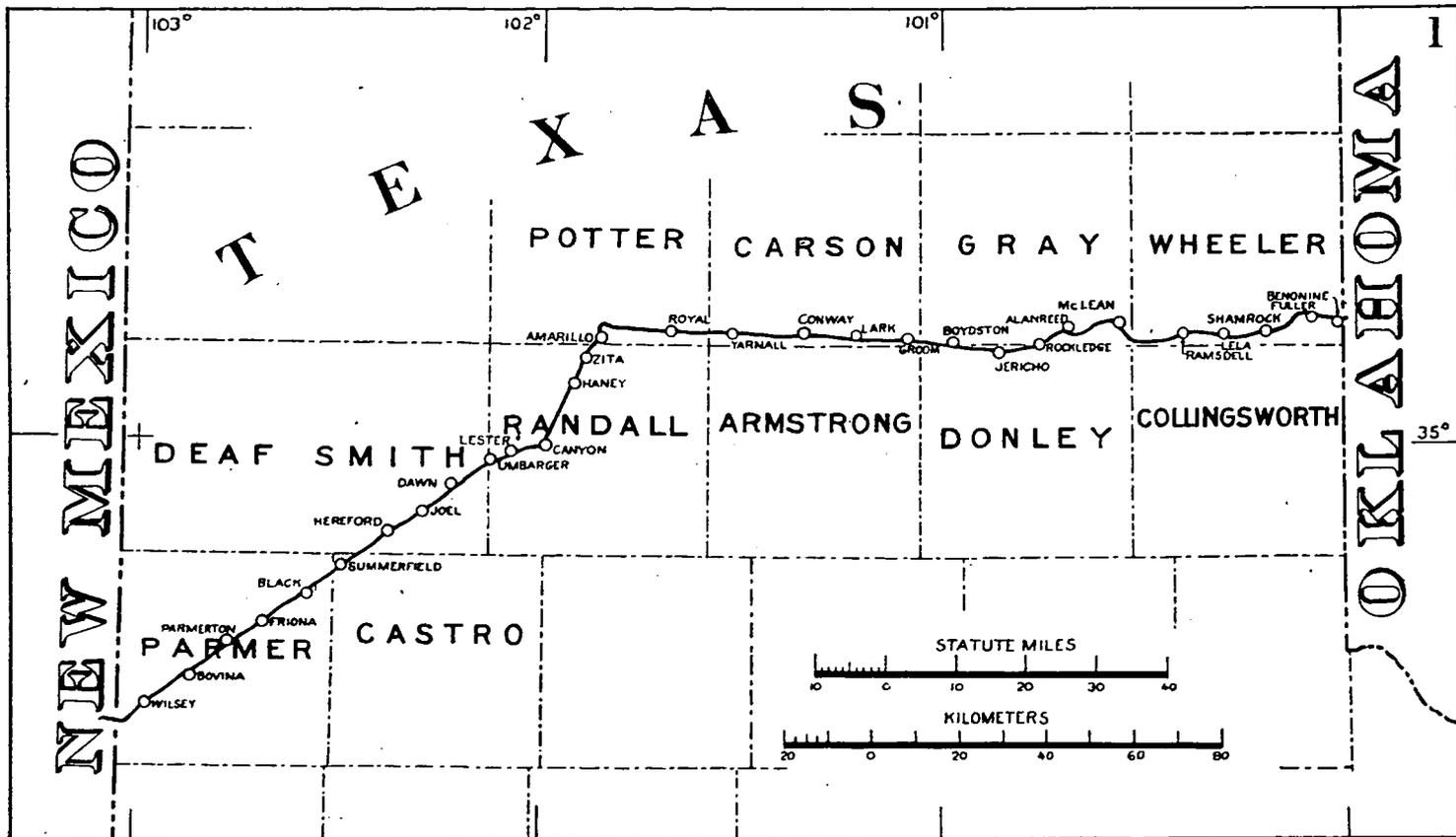


FIG. 1.—LINES IX AND XI.

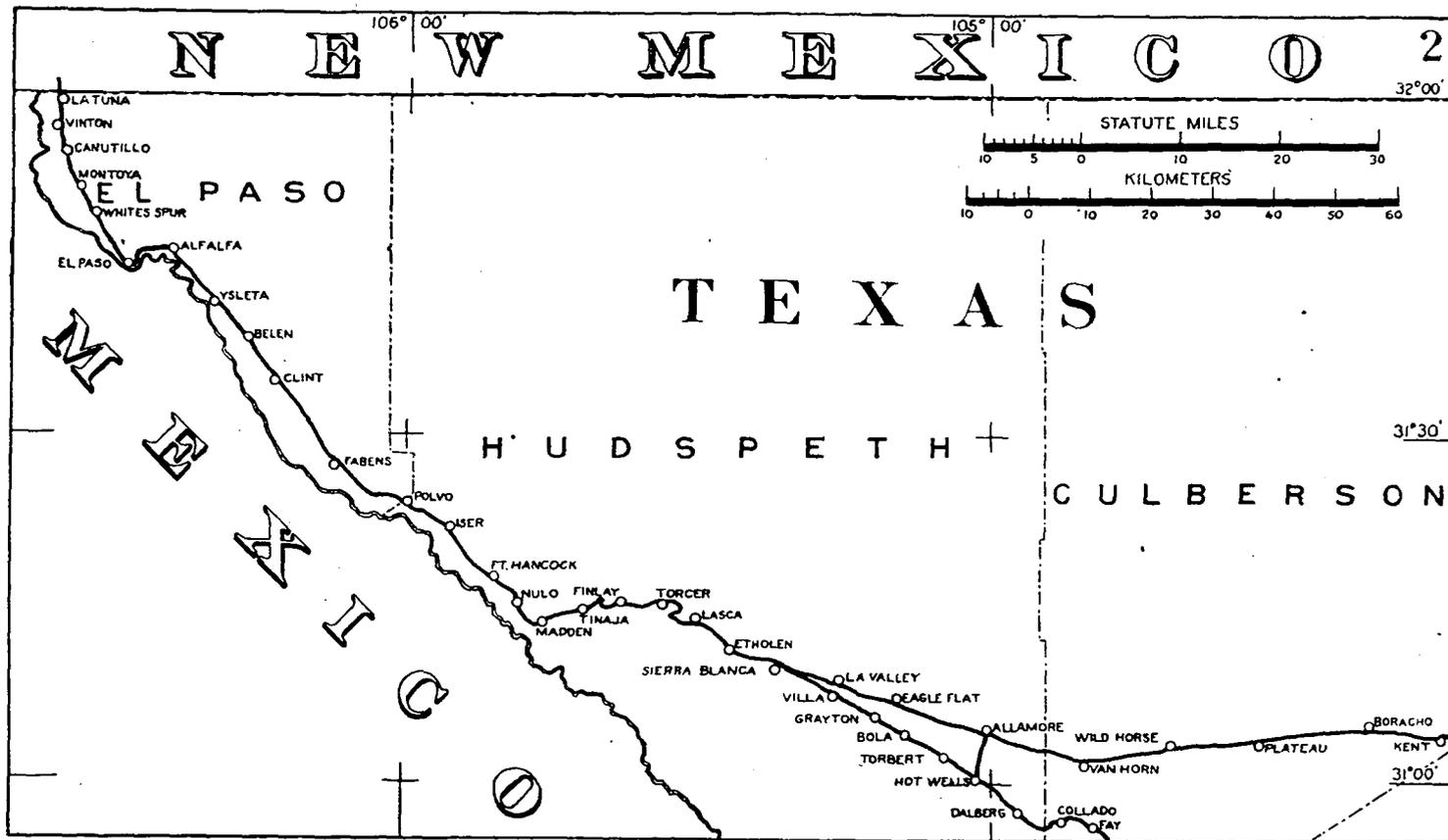


FIG. 2.—LINE VII AND PARTS OF LINES X AND XIII.

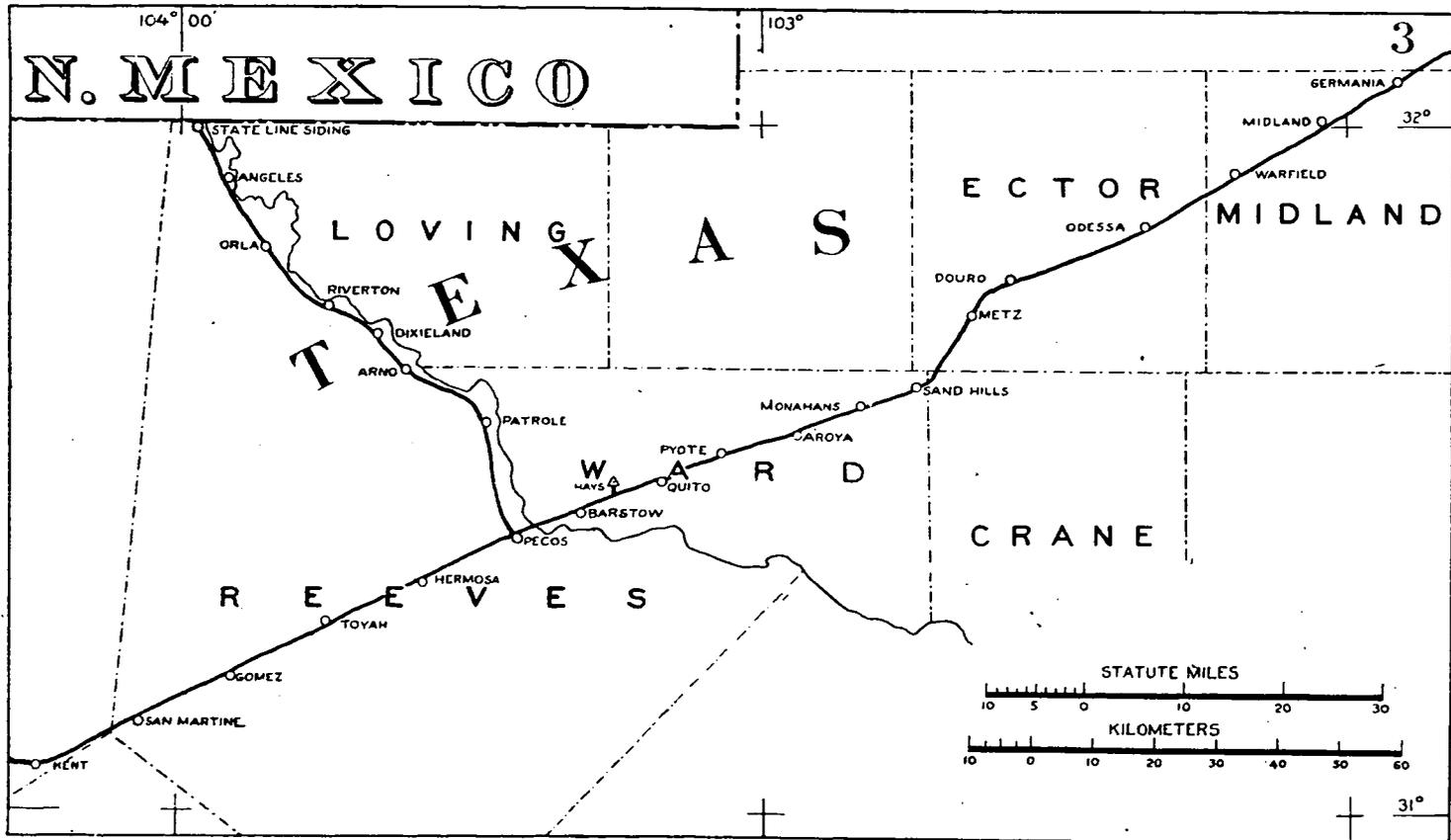


FIG. 3.—LINE XII AND PART OF LINE X.

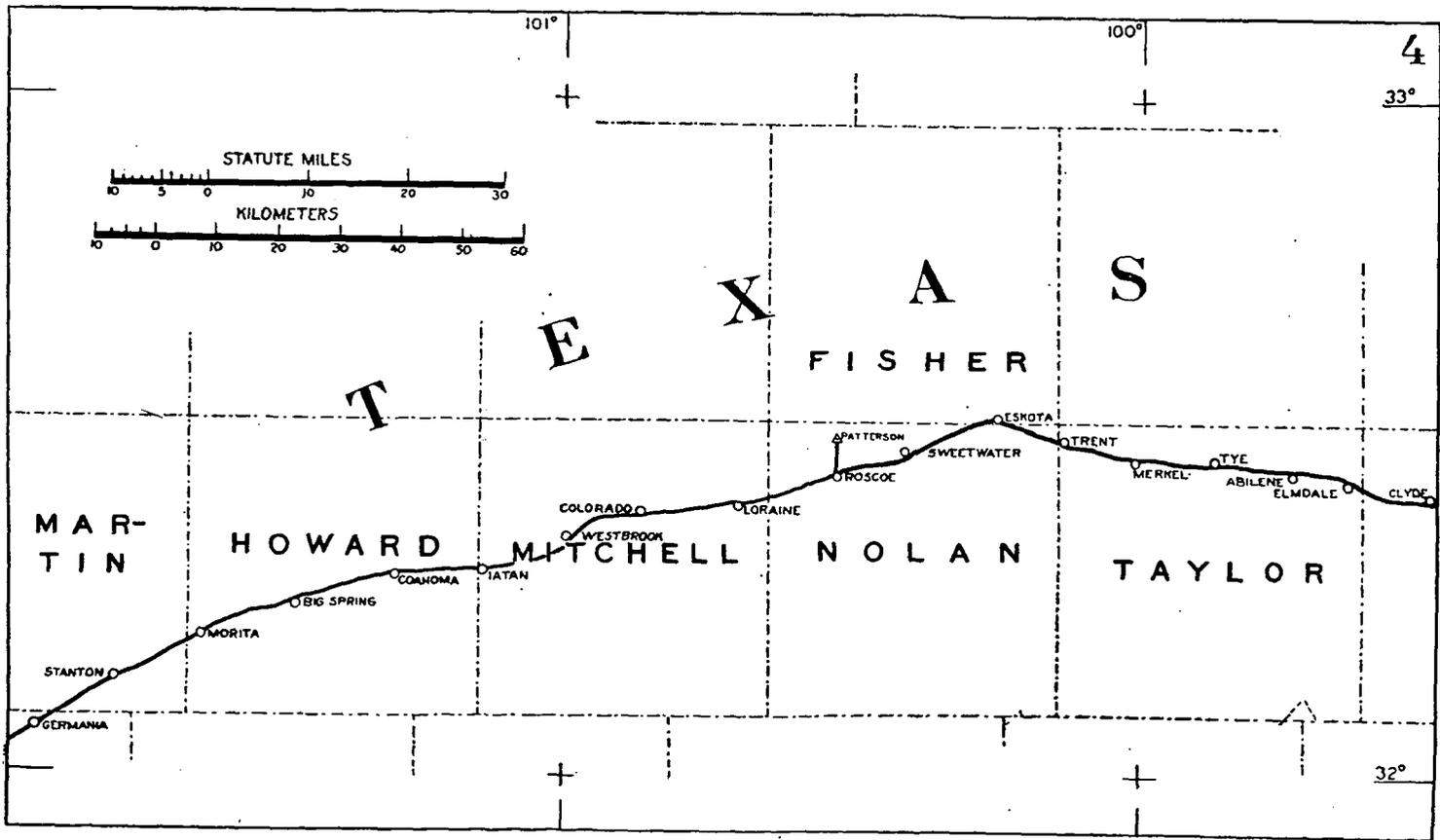


FIG. 4.—PART OF LINE X.

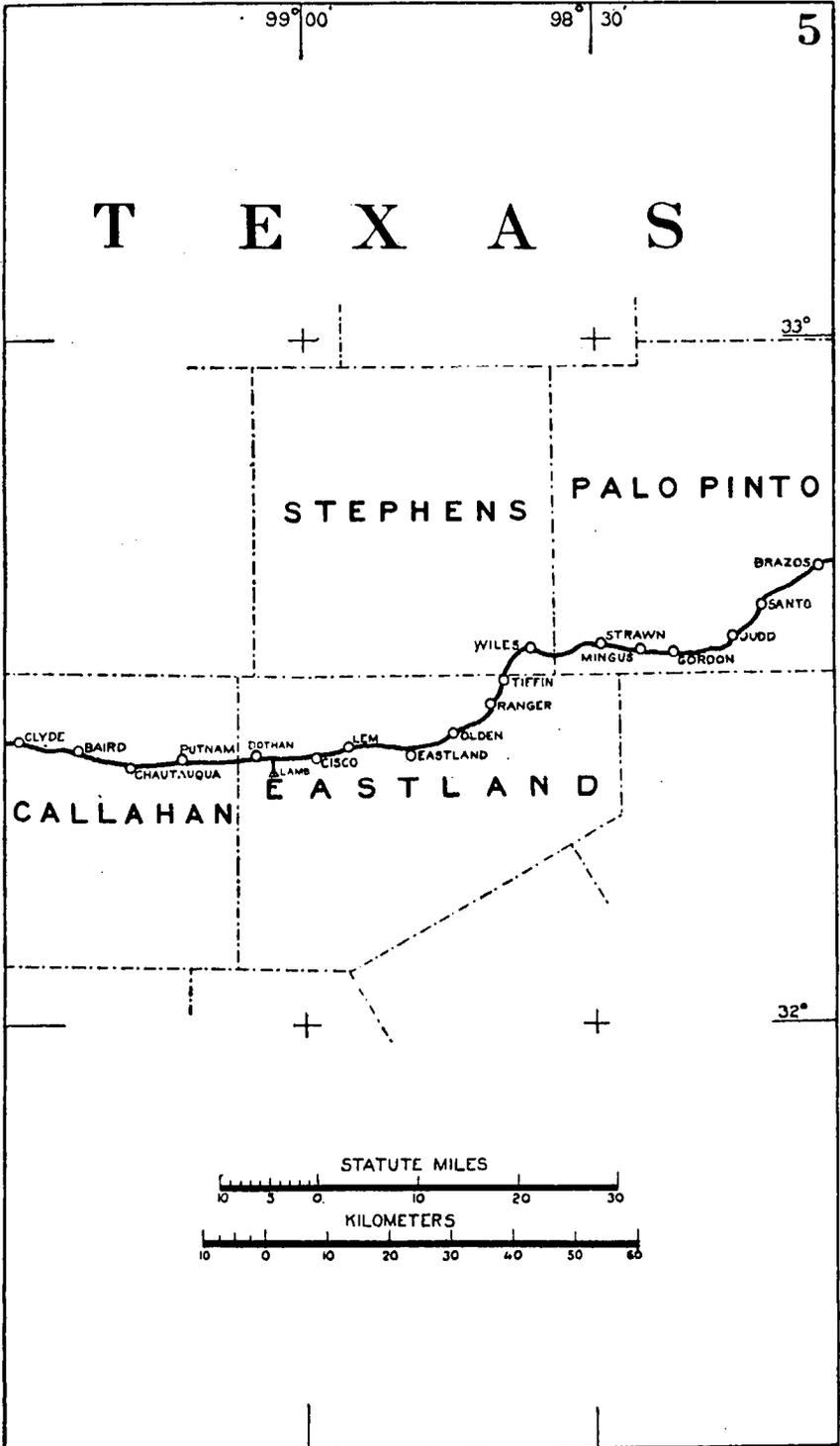


FIG. 5.—PART OF LINE X.

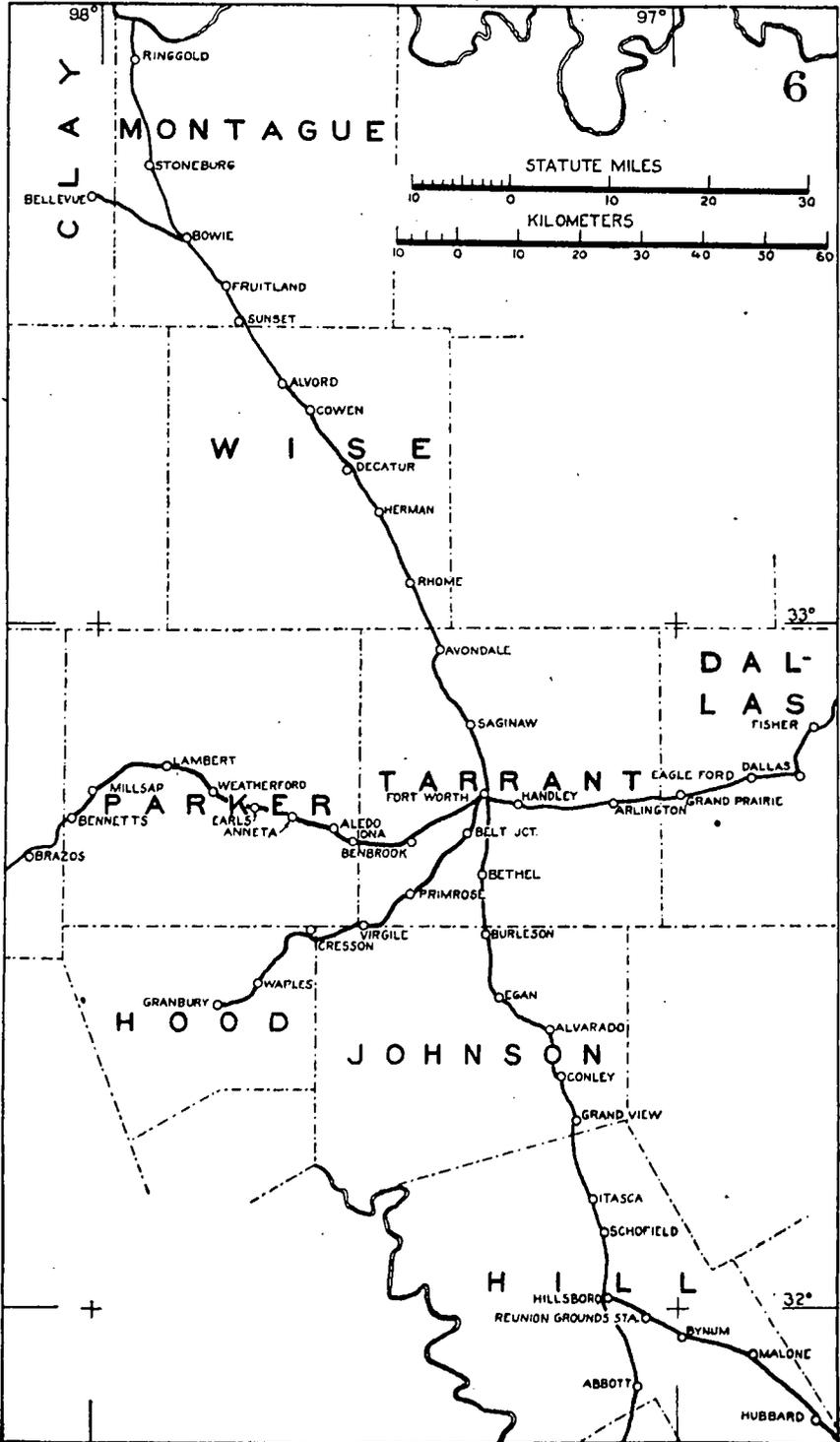


FIG. 6—LINES I AND III AND PARTS OF LINES II, IV, X, AND XVIII.

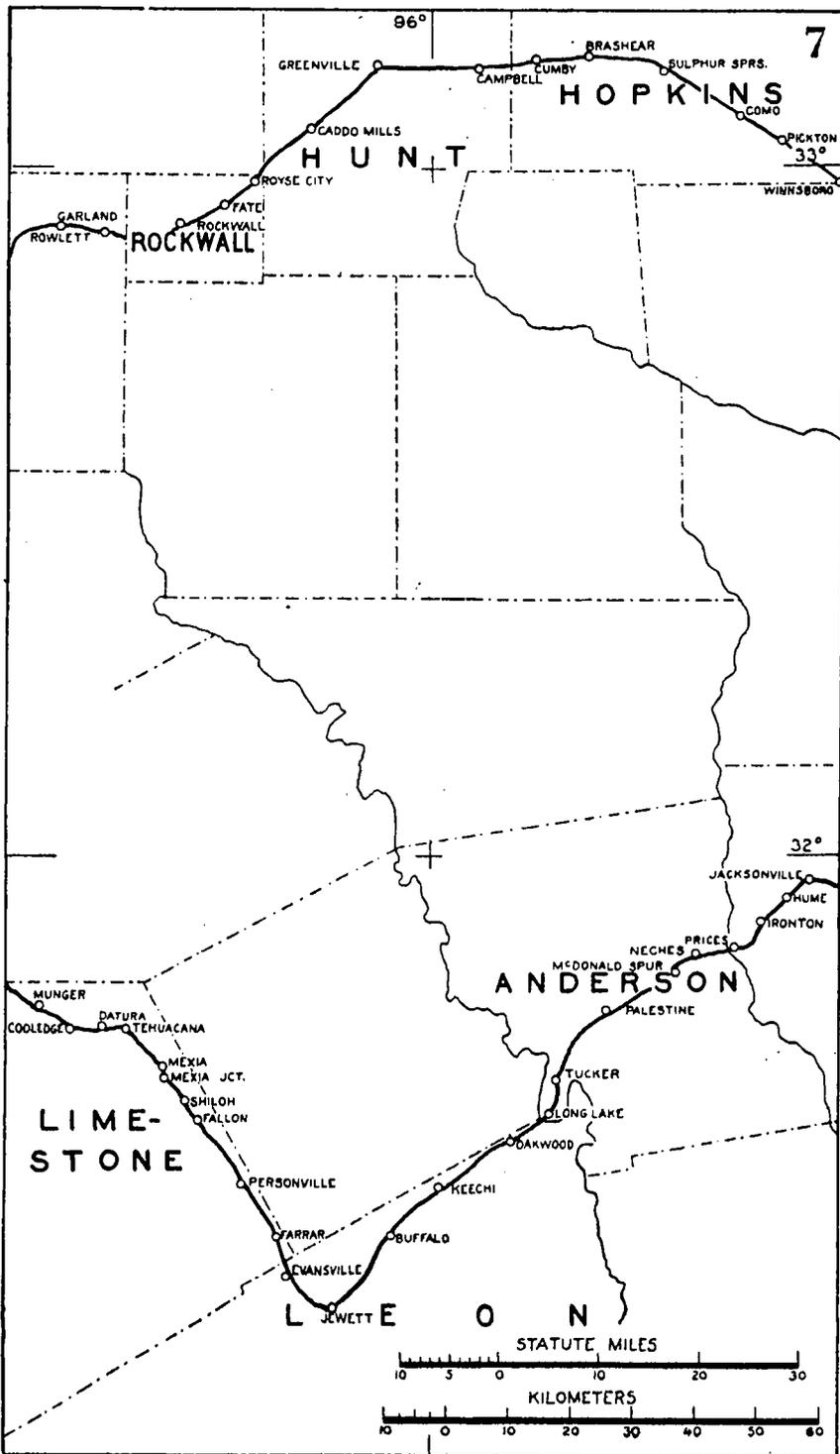


FIG. 7.—PARTS OF LINES II AND XVIII.

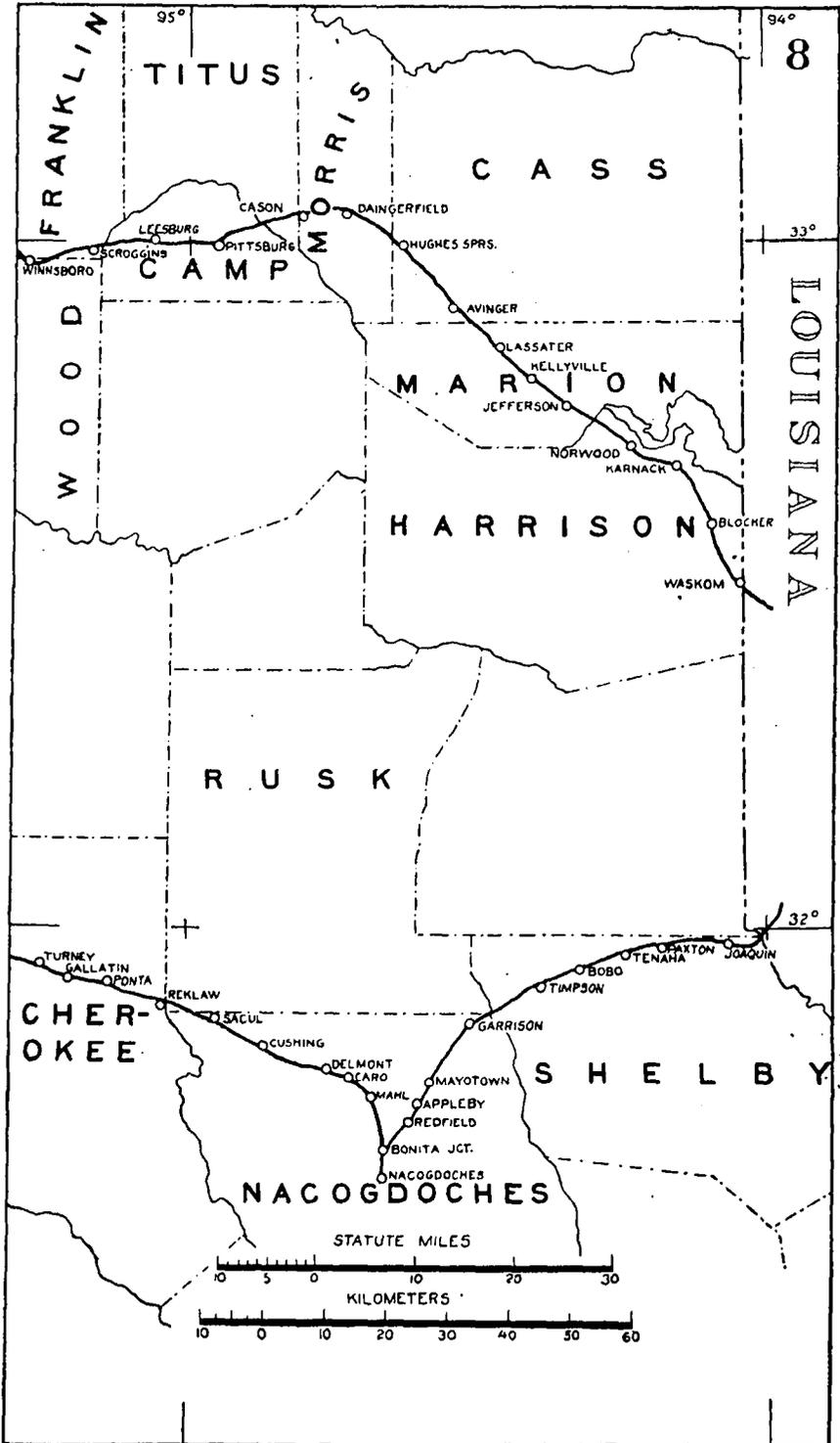


FIG. 8.—PARTS OF LINES II AND XVIII.

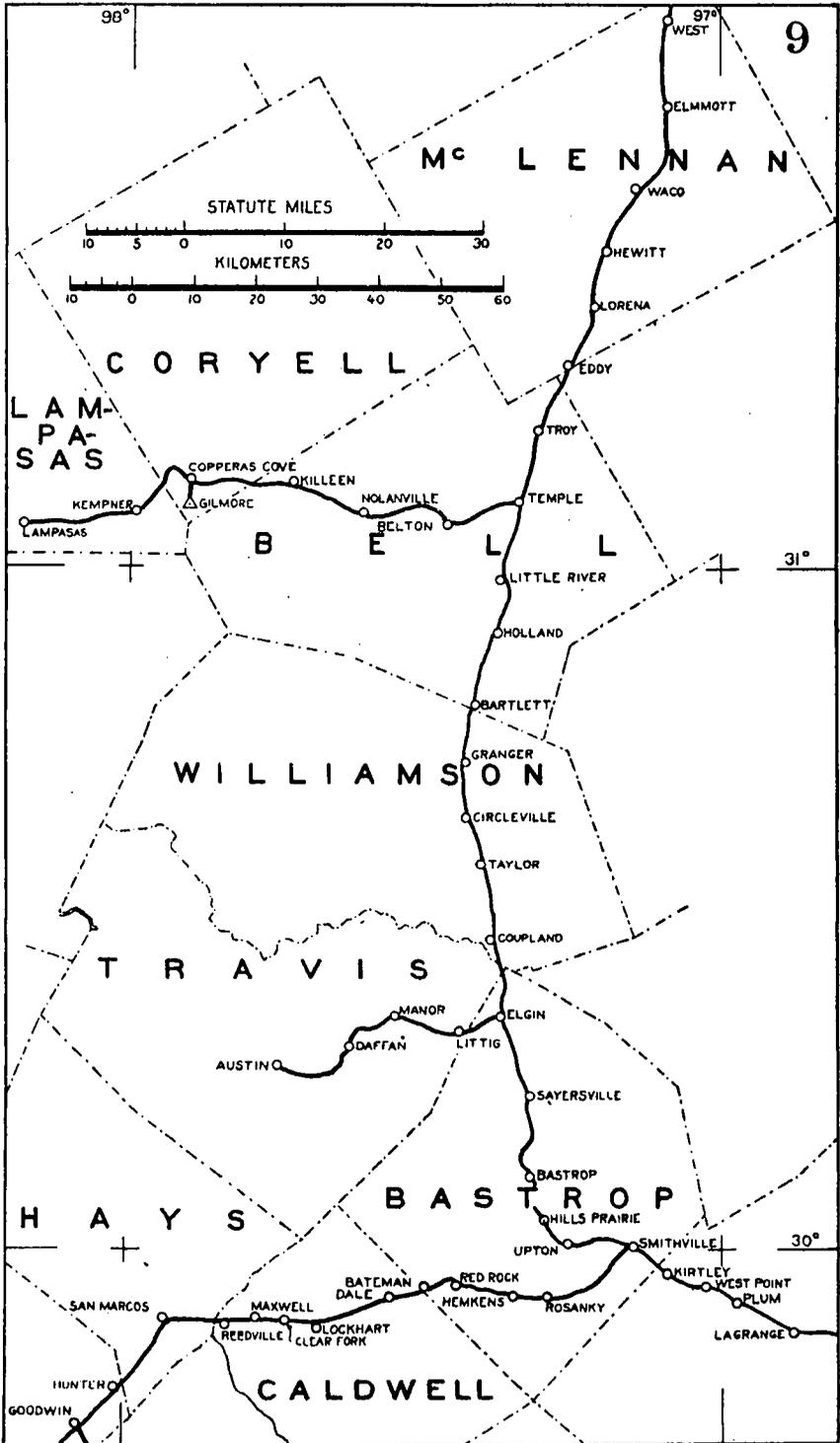


FIG. 9.—LINE V AND PARTS OF LINES IV, VI, AND VIII.

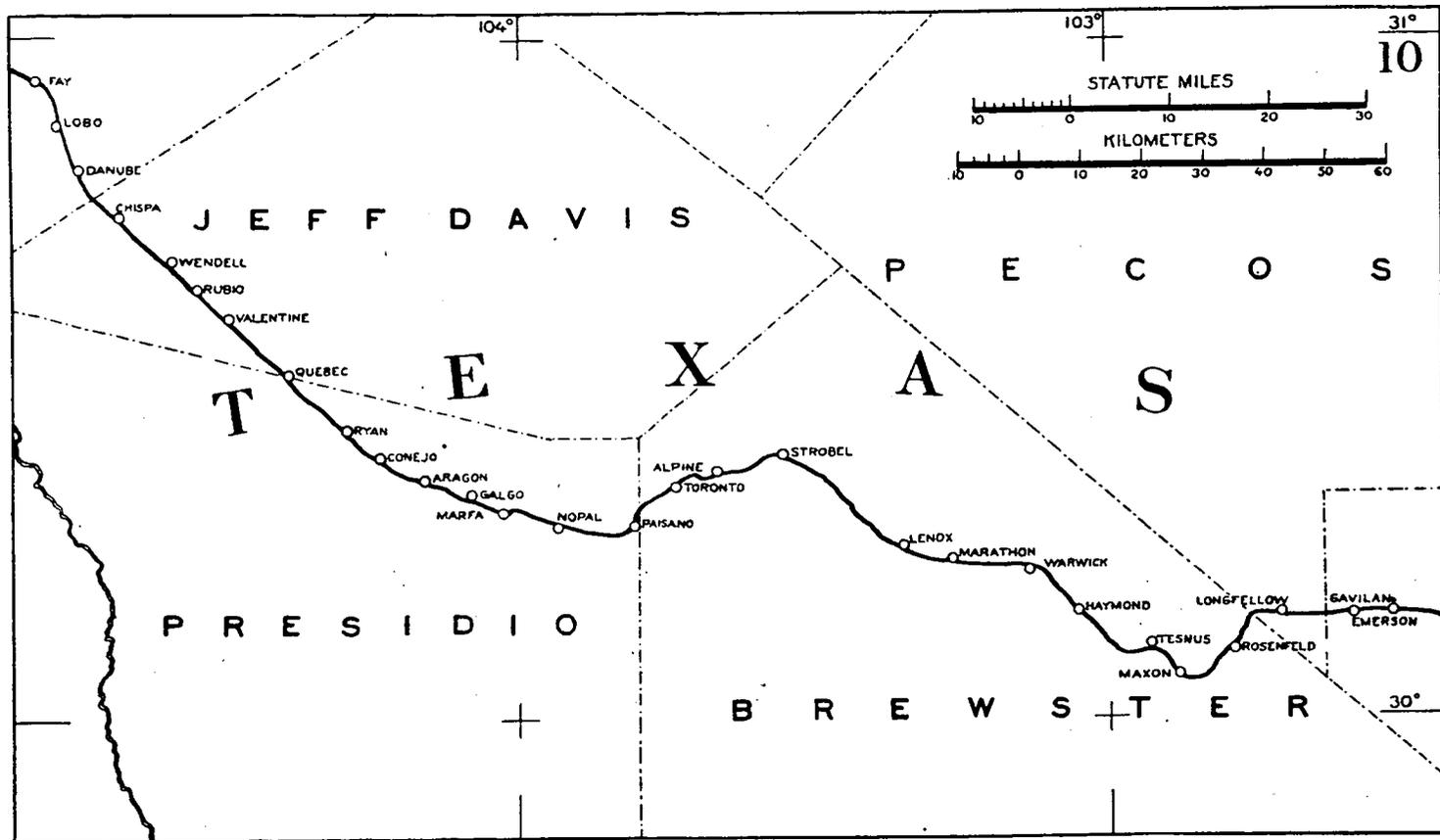


FIG. 10.—PART OF LINE XIII.

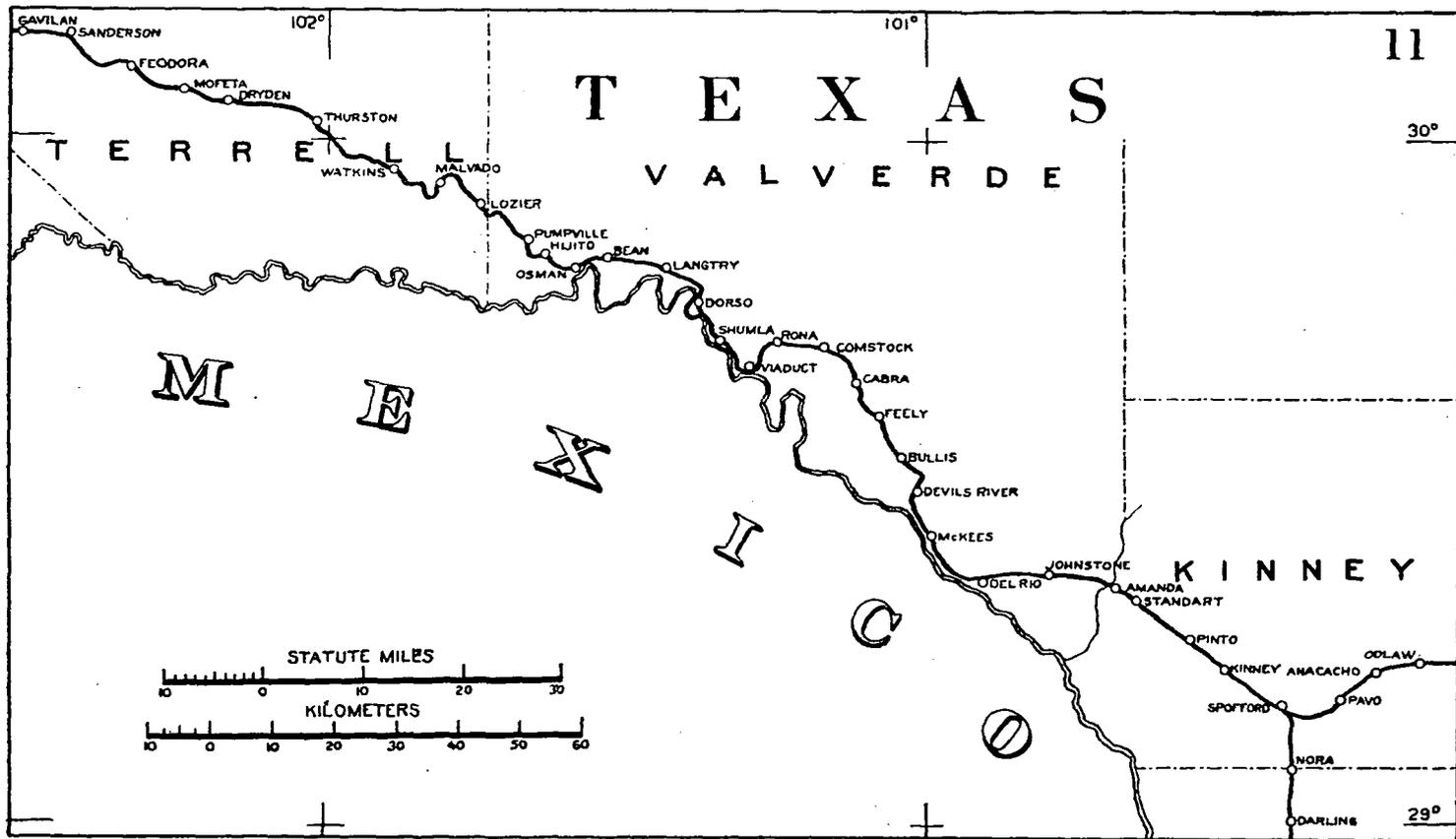


FIG. 11.—PART OF LINE XIII.

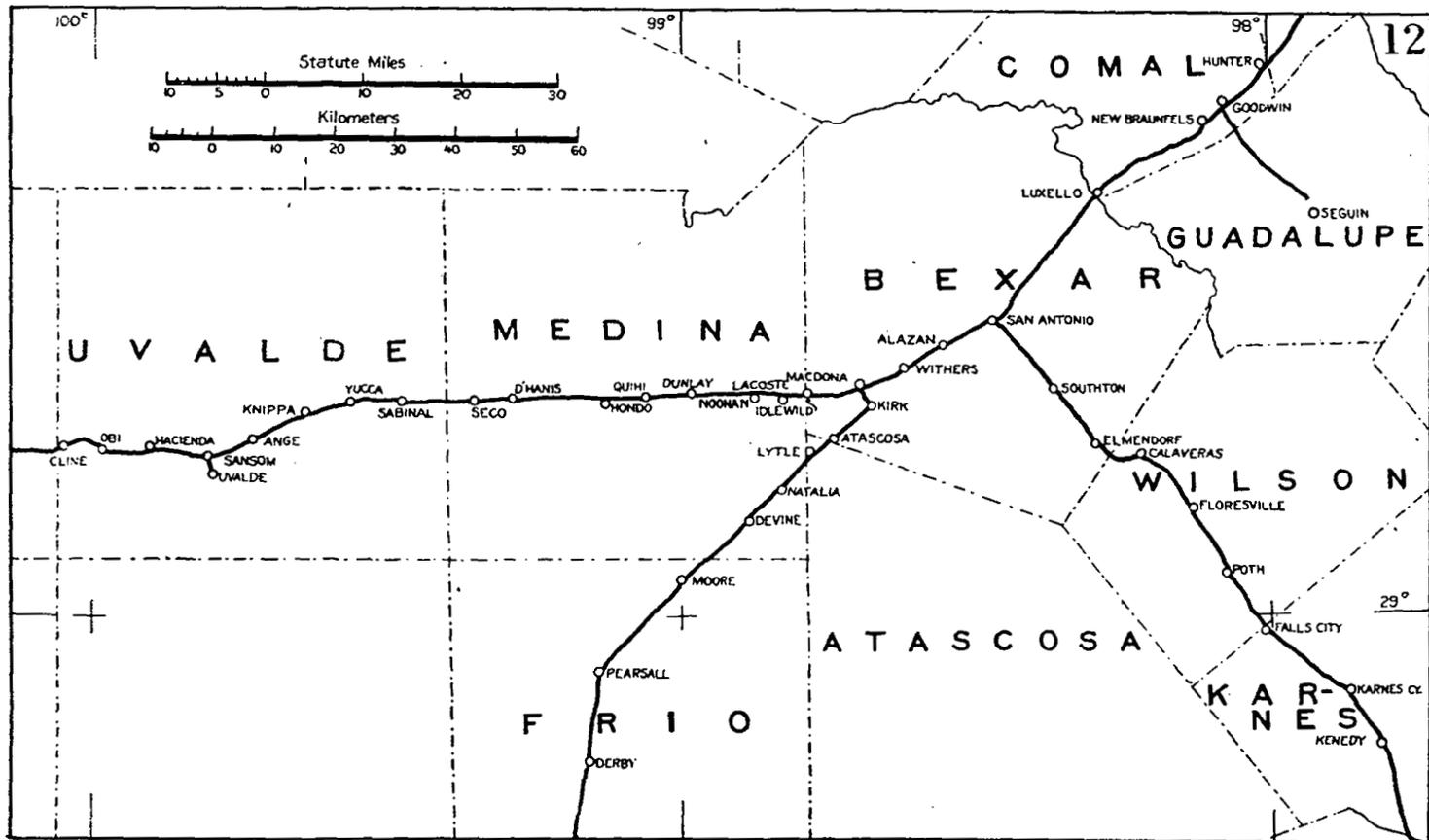


FIG. 12.—PARTS OF LINES VI, XIII, XIV, AND XV.



FIG. 13.—PARTS OF LINES VIII AND XVI.

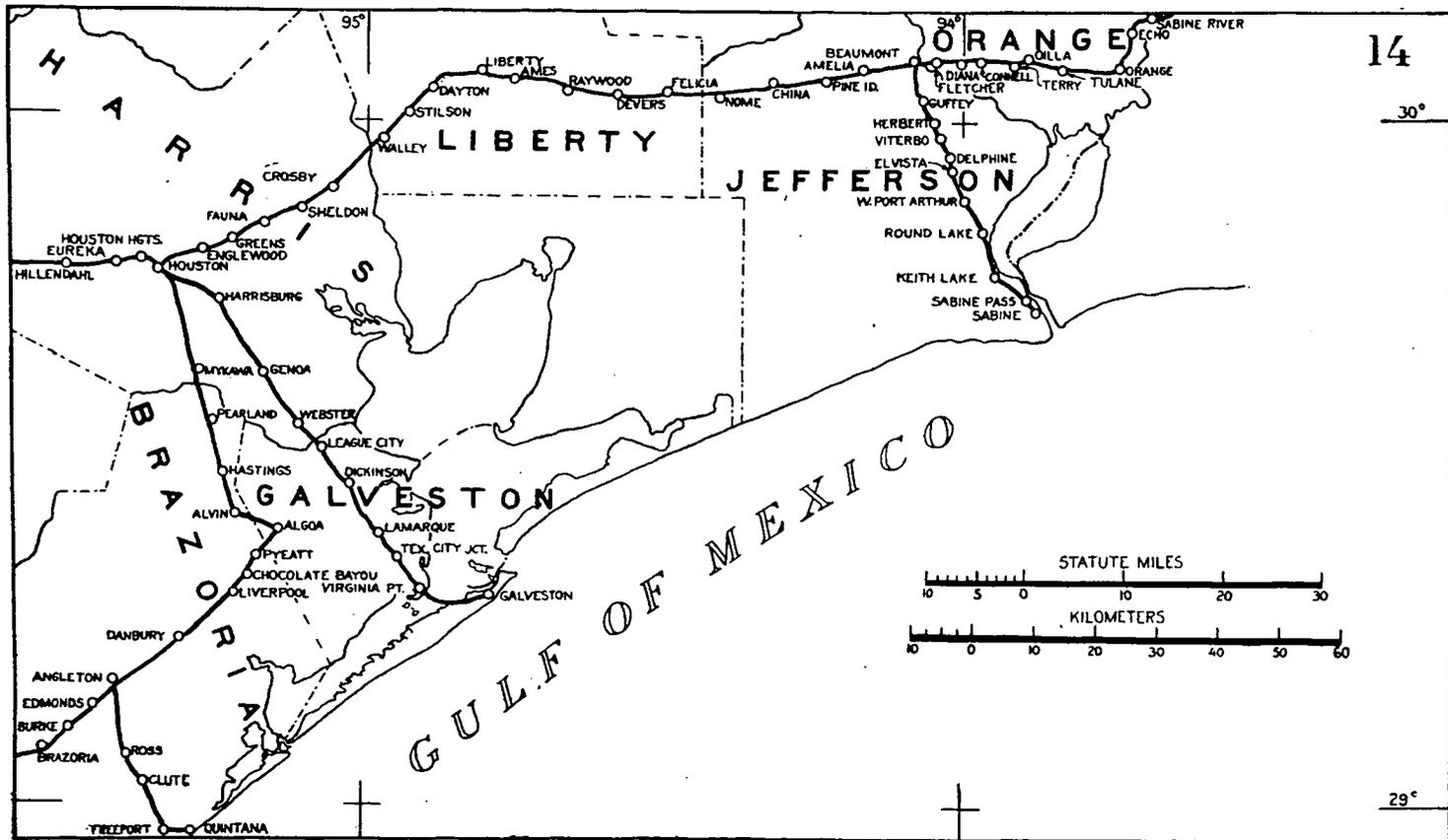


FIG. 14.—PARTS OF LINES VIII AND XVI.

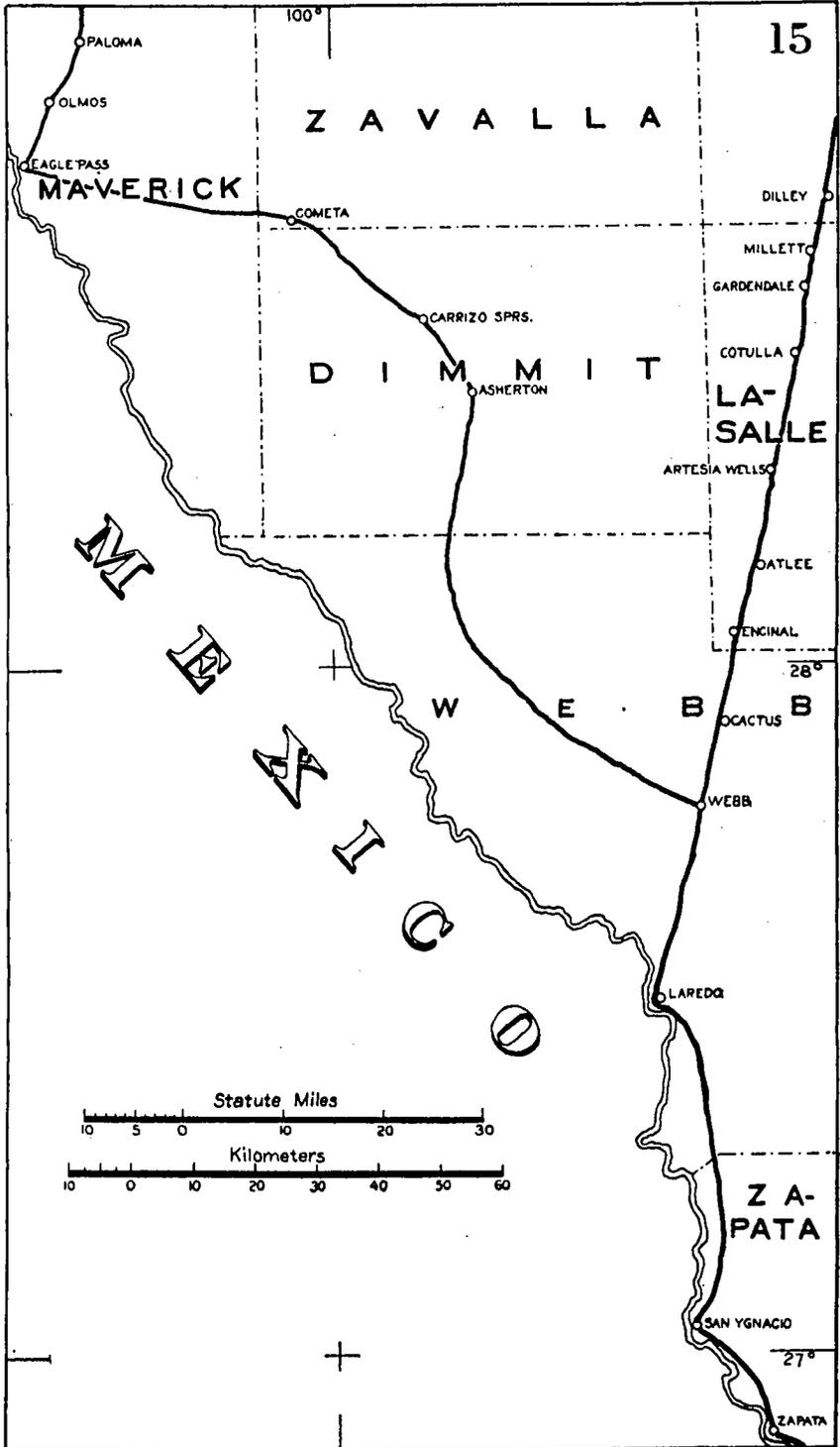


FIG. 15.—PARTS OF LINES XIII, XV, AND XVII.

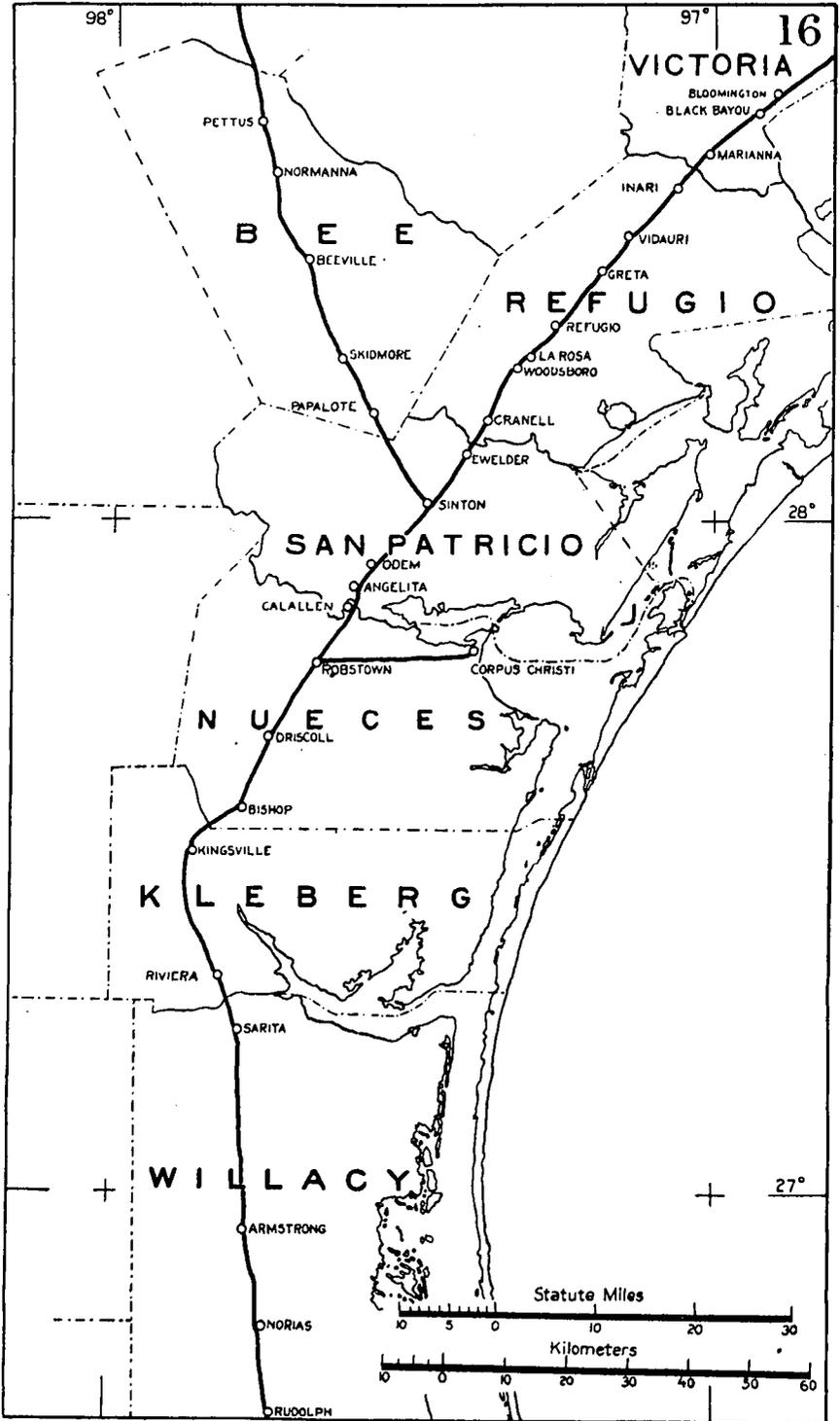


FIG. 16.—PARTS OF LINES XIV AND XVI.

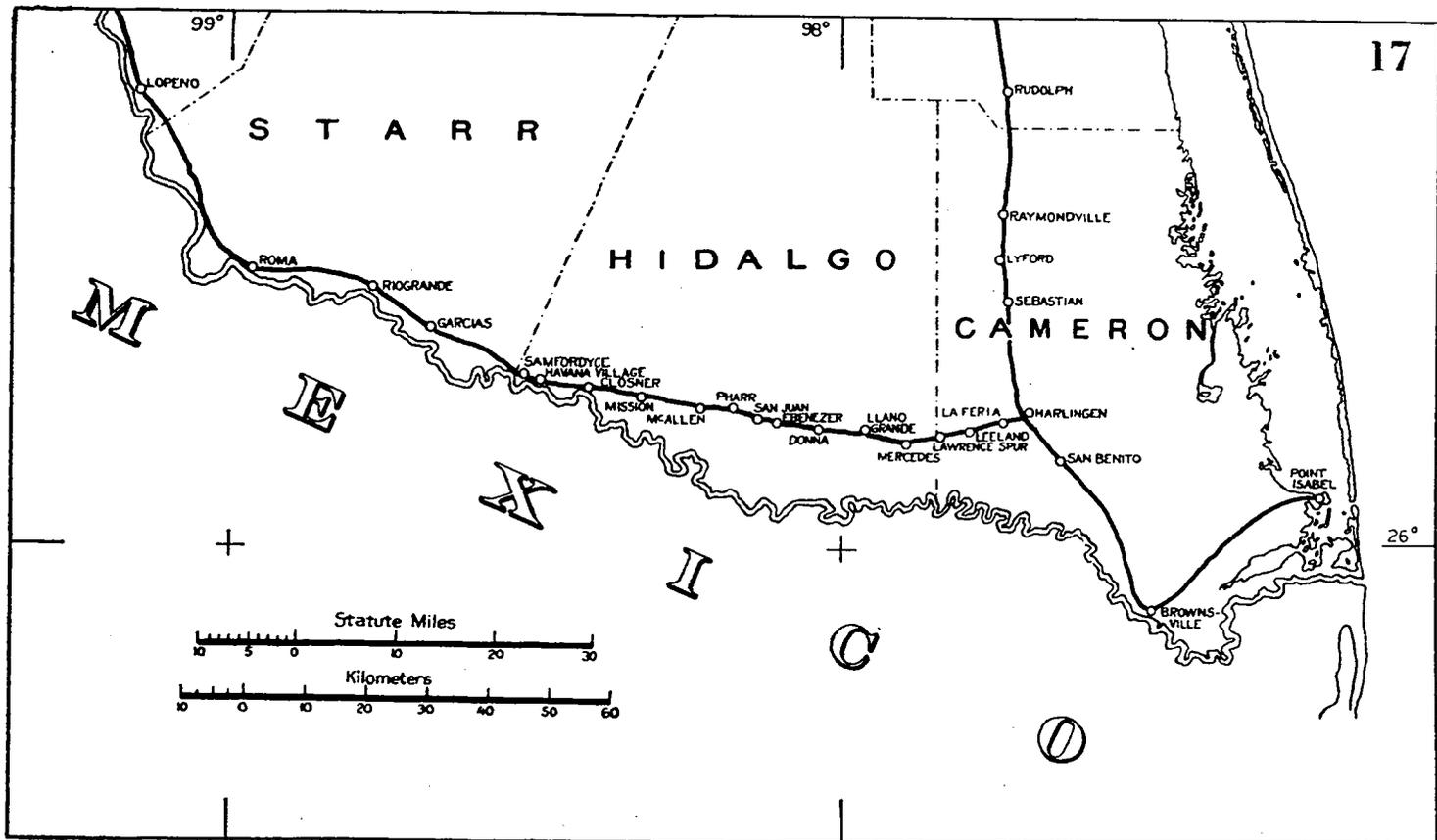


FIG. 17.—PARTS OF LINES XIV AND XVII.

DESCRIPTIONS AND ELEVATIONS OF PERMANENT BENCH MARKS.

LINE I, BOWIE, TEX., TO ANTHONY, KANS.

This is the Texas portion of a line starting at Bowie, Montague County, Tex., and following the Chicago, Rock Island & Gulf Railway northward to the Red River. A spur line follows the Fort Worth & Denver City Railway northwestward from Bowie to triangulation stations in the vicinity of Bellevue, Clay County. The field work was done by W. H. Burger, aid, between April 3 and July 11, 1902.

1124 Gainv. (U. S. G. S.)—At Bowie, Montague County, at the southwest corner of the street, 100 feet east of the Fort Worth & Denver City Railway Station, at Brown Hotel, known in 1902 as Bowle Hotel. An iron post marked "1124 Gainv." (342.556 meters or 1,123.869 feet.)

A.—At Bowie, Montague County, about 300 meters (984 feet) north of the Chicago, Rock Island & Gulf Railway Station and about 25 feet west and 10 feet below the level of the main track; on the west side of a stone culvert, 3½ feet from the southwest corner and 3 inches from the edge of the stone. The bottom of a square hole. (329.258 meters or 1,080.241 feet.)

B.—At Bowie, Montague County, on the north side of the City National Bank Building, in the fourth brick west of the third double window and 4 feet from the ground. A copper bolt. (349.050 meters or 1,145.175 feet.)

C.—About 6 miles west of Bowie, Montague County, on a line between the third and fourth telegraph poles west of milepost 75 of the Fort Worth & Denver City Railway; in a rock in situ about 30 feet south of the track, 20 inches from the north and 16 inches from the west edges of the stone. A copper bolt. (289.773 meters or 950.697 feet.)

Bowie northwest base (triangulation station).—About 1 mile southeast of Bellevue, Clay County, on a prominent knoll on the farm belonging to the Orton brothers. A brass disk in a block of concrete. (327.377 meters or 1,074.069 feet.)

Bowie southeast base (triangulation station).—Near Bellevue, Clay County, on the highest part of a prominent ridge on the farm of C. H. Bodeker. A brass disk in a block of concrete. (333.315 meters or 1,093.551 feet.)

989 Gainv. (U. S. G. S.)—About 4 miles northwest of Bowie, Montague County, on the Chicago, Rock Island & Gulf Railway, 210 feet south of milepost 540, and 40 feet east of the track, at a public road crossing. An iron post marked "989 Gainv." (301.557 meters or 989.353 feet.)

D.—About 5 miles northwest of Bowie, Montague County, on the Chicago, Rock Island & Gulf Railway and just south of milepost 539, in the northwest corner of the south concrete abutment of a bridge. A copper bolt. (292.569 meters or 959.870 feet.)

E.—At Stoneburg, Montague County, on the Chicago, Rock Island & Gulf Railway water tank, on the southwest corner and 4 inches from either edge of the southwest stone block of the four inner ones supporting the tank. A copper bolt. (285.030 meters or 935.136 feet.)

936 Gainv. (U. S. G. S.)—At Stoneburg, Montague County, 500 feet west of the Chicago, Rock Island & Gulf Railway Station, at the northeast corner of the post-office building. An iron post marked "936 Gainv." (285.363 meters or 936.228 feet.)

876 Gainv. (U. S. G. S.)—About 4.5 miles northwest of Stoneburg, Montague County, on the Chicago, Rock Island & Gulf Railway and 50 feet south of milepost 531, on the right of way opposite Walker's ranch and 50 feet west of the track. An iron post marked "876 Gainv." (267.014 meters or 876.028 feet.)

F.—About 3.5 miles south of Ringgold, Montague County, on the Chicago, Rock Island & Gulf Railway, nearly in line with and halfway between the second and third telegraph poles north of milepost 528.5, about in the center of

the larger of two rocks in situ 30 feet from the track. A copper bolt. (268.794 meters or 881.868 feet.)

897 Gainv. (U. S. G. S.).—About 3 miles south of Ringgold, Montague County, on the Chicago, Rock Island & Gulf Railway and about 300 feet north of milepost 528, at a public road crossing and 46 feet east of the track. An iron post marked "897 Gainv." (273.242 meters or 896.461 feet.)

894 Gainv. (U. S. G. S.).—At Ringgold, Montague County, 180 feet east of Missouri, Kansas & Texas Railway Station, at the end of the platform, between the main track and the switch. An iron post marked "894 Gainv." (272.604 meters or 894.368 feet.)

G.—About 4 miles north of Ringgold, Montague County, on the Chicago, Rock Island & Gulf Railway bridge No. 3219, over the Red River, in the top of the west side of the south concrete abutment, 5 feet from the west edge and 8 inches from the north edge. A copper bolt. (248.582 meters or 815.556 feet.)

LINE II, BOWIE, TEX., TO SHREVEPORT, LA.

This is the Texas portion of a line which follows the Fort Worth & Denver City Railway from Bowie to Fort Worth, the Texas & Pacific Railway from Fort Worth to Dallas, and the Missouri, Kansas & Texas Railway from Dallas to the Texas-Louisiana State line. The field work was done by W. H. Burger, aid, between July 14 and November 18, 1902.

For bench marks at Bowie, see page 22.

H.—At Fruitland, Montague County, in the west side of the stone chimney on the south side of the house owned by W. H. Scarborough; about 5 feet from the ground and 3 inches from edge of the chimney. A copper bolt. (321.199 meters or 1,053.800 feet.)

I.—At Sunset, Montague County, in the middle column of the store owned by Dr. H. F. Schoolfield, in the center of the fourth stone above the sidewalk. A copper bolt. (304.720 meters or 999.736 feet.)

J.—At Alvord, Wise County, in the stone column at the east side of the Masonic Building (occupied by bank), in the center of the third block above the sidewalk. A copper bolt. (269.984 meters or 885.772 feet.)

K.—At Cowen, Wise County, 40 feet east from the Fort Worth & Denver City Railway track, and in line with the station sign, and 3 feet from the right-of-way fence. A stone post with square hole in top. (266.043 meters or 872.842 feet.)

L.—At Decatur, Wise County, at the northwest corner of the public school building (1833), about 4 feet above the ground, in the center of the north side of the second sandstone block. A copper bolt. Reported destroyed in 1919. (834.222 meters or 1,096.526 feet.)

M.—At Herman, Wise County, about 3 feet inside of the right-of-way fence of the Fort Worth & Denver City Railway, and 50 feet east of the track and in line with the station sign. A stone post with square hole in top. (282.661 meters or 927.363 feet.)

N.—At Rhome, Wise County, in the north corner of the Fort Worth & Denver City Railway lot (occupied by pumping houses and water tank), 2 feet from west fence and 8 feet from east fence, near the fourth telegraph pole north of railroad station. A stone post with square hole in top. (285.930 meters or 938.089 feet.)

O.—At Avondale, Tarrant County, 6 feet south of the third telegraph pole south of and across the tracks from the Fort Worth & Denver City Railway Station, and 30 feet from the tracks, in line with the telegraph poles. A stone post with square hole in top. (256.415 meters or 841.255 feet.)

P.—About 1.2 miles north of Saginaw, Tarrant County, on an arched concrete abutment of the Chicago, Rock Island & Gulf Railway, 4 telegraph poles north of milepost 10 of the Fort Worth & Denver City Railway, on the east side of the abutment, in the northeast corner, 9 inches from either edge. A copper bolt. (229.000 meters or 751.311 feet.)

Q.—About 1.5 miles north of Trinity River crossing at Fort Worth, Tarrant County, in the northwest corner of the west side of an arched concrete culvert at milepost 608 of the Chicago, Rock Island & Gulf Railway, 8 inches from the

north and 4 inches from the west edge. A copper bolt. (191.466 meters or 628.168 feet.)

R.—About 3 miles north of the Union Station at Fort Worth, Tarrant County, on a large stone pier (the first from the north bank of Trinity River) of the Chicago, Rock Island & Gulf Railway bridge No. 3306, on the northwest corner of the west side, 8 inches from either edge. The bottom of a square hole. (163.873 meters or 537.640 feet.)

S.—About 2 miles north of Union Station at Fort Worth, Tarrant County, on the south end of the west pier supporting the Missouri, Kansas & Texas Railway track (over the Chicago, Rock Island & Gulf Railway track) at the north end of the freight yards of the Chicago, Rock Island & Gulf Railway, on the lowest step at the southeast corner, 6 inches from either edge. The bottom of a square hole. (161.660 meters or 530.380 feet.)

T.—A mile north of Union Station at Fort Worth, Tarrant County, on the northwest corner of the large block forming the lowest step to the west side of the south abutment supporting the Fort Worth & Denver City Railway track (over the Chicago, Rock Island & Gulf Railway track), 4 inches from the adjacent edges of the stone and 3.5 feet from the ground. The bottom of a square hole. (173.574 meters or 569.467 feet.)

U.—At Fort Worth, Tarrant County, at the west side of the south abutment where the railroad tracks pass over the Fort Worth & Dallas Electric Line tracks, on the second step from the top, 6 inches from the adjacent edges of stone. The bottom of a square hole. (184.008 meters or 605.865 feet.)

Hydrant 1 (City Bench Mark).—At Fort Worth, Tarrant County, a cross made by a chisel mark on the top of the old water hydrant near the crossing of the main tracks of the Texas & Pacific and the Missouri, Kansas & Texas Railways, 9 paces south of the Texas & Pacific track, 9 paces west of the Missouri, Kansas & Texas track, 7 paces east of the Houston & Texas Central Railroad track, and 5 paces west of the Santa Fe Railroad track. On account of "filling in" only a few inches of the hydrant projects above the ground. (185.725 meters or 609.333 feet.)

Hydrant 2 (City Bench Mark).—At Fort Worth, Tarrant County, the top of the water hydrant at the northeast corner of the city hall, on Throckmorton Street. (187.568 meters or 615.379 feet.)

V.—At Fort Worth, Tarrant County, at the northeast corner of the city fire department building (central station), on Throckmorton Street, between Eighth and Ninth, near the center of the east face of a block of stone in the fourth tier and about 4 feet from the ground, 15 inches from the corner of the building, 13 inches from a window. A copper bolt. (188.749 meters or 619.254 feet.)

For additional bench marks at Fort Worth, Tex., see pages 23, 27, 45, and 46.

W.—At Handley, Tarrant County, in the center of the middle pilaster on the northeast side of the power house of the Northern Texas Traction Co., about 4 feet from the ground. A copper bolt. (176.294 meters or 578.391 feet.)

X.—At Arlington, Tarrant County, at the east side of the north face of the Citizens' National Bank Building, in the middle brick of the eastern brick column, about 4½ feet above the ground. A copper bolt. (188.347 meters or 617.935 feet.)

Y.—At Grand Prairie, Dallas County, in line with the telegraph poles, 15 feet west of the first pole west of milepost 234 of the Texas & Pacific Railway, about 200 feet west of and across the tracks from the station. A stone post with square hole in top. (159.939 meters or 524.733 feet.)

Z.—At Eagle Ford, Dallas County, in an angle formed by a wagon road and the Texas & Pacific Railway right-of-way fence, 32 paces south of the tracks and opposite the station. A stone post with square hole in top. (134.392 meters or 440.918 feet.)

A 2.—At Dallas, Dallas County, in the west corner of the buttress to the county courthouse, in the second tier of stone, about 2½ feet from the ground. The bolt points almost to the intersection of Houston and Main Streets. A copper bolt. (132.274 meters or 433.969 feet.)

B 2.—At Dallas, Dallas County, at the east side of the doorstep to the north entrance, on Main Street, of the United States customhouse and post-office building, 8 inches from the eastern column of the doorway, 8 inches from the wooden doorframe, and 13 inches from the outer edge of the stone doorstep. A copper bolt. (136.402 meters or 447.512 feet.)

C 2.—At Dallas, Dallas County, at the southeast corner of the city hall, corner of Commerce and Akard Streets, on the side facing the Oriental Hotel, 4 feet

above the sidewalk, in the third tier, near the center of a stone. A copper bolt. (132.761 meters or 435.567 feet.)

D 2.—At Fisher, Dallas County, just within the right-of-way fence of the Missouri, Kansas & Texas Railway, 14 paces south of the tracks and about 350 feet west of the station sign. A stone post with square hole in top. (161.096 meters or 528.529 feet.)

E 2.—At Garland, Dallas County, in the stone window sill of the western window on the north side of the Citizens' Bank, about 2 inches from the edge of the sill and 4 inches from the west frame of the window, and about 4 feet from the ground. A stone post with square hole in top. (167.923 meters or 550.927 feet.)

F 2.—At Rowlett, Dallas County, in the angle formed by the right-of-way fence of the Missouri, Kansas & Texas Railway and the fence at a road crossing about 700 feet east of the station, 16 paces north of the center of the railroad track, 4 paces west from the crossing, and between the fourth and the fifth telegraph poles east of the station. A stone post with square hole in top. (153.872 meters or 504.828 feet.)

G 2.—At Rockwall, Rockwall County, at the southwest corner of the county courthouse, in the south face, 4 feet above the ground, in the fourth tier from the foundation and about midway between the corner of the building and a window. A copper bolt. (181.536 meters or 595.589 feet.)

H 2.—At Fate, Rockwall County, in the middle brick column of the double building owned by Low & Sawyer, in the front facing south and about 4 feet from ground. A copper bolt. (180.064 meters or 590.760 feet.)

I 2.—At Royse City, Rockwall County, in the center of a large stone block at the left of the entrance to the Royse City Bank, on the west side, about 16 inches above sidewalk. A copper bolt. (170.848 meters or 560.524 feet.)

J 2.—At Caddo Mills, Hunt County, about 200 feet east of the Missouri, Kansas & Texas Railway station, 8 feet west of the second telegraph pole east of the station, and about 20 feet north of the track, in line with the telegraph poles. A stone post with square hole in top. (161.684 meters or 530.458 feet.)

K 2.—At Greenville, Hunt County, on the Central Schoolhouse on Westlee Street, on the part of the building jutting out to form the main entrance, in a stone in the fifth tier above the ground, the course of stone which runs entirely around the building, about 4½ feet from the north side of the main entrance, and 10 inches from the edge of the stone. A copper bolt. (164.876 meters or 540.931 feet.)

L 2.—At Greenville, Hunt County, in the column to the right of the corner entrance to the building known as Beckham Hotel Annex, on the side facing Lee Street, in the center of the fourth tier of stone, and about 4 feet from the ground. A copper bolt. (168.928 meters or 554.225 feet.)

M 2.—At Greenville, Hunt County, in the top step to the main (Lee Street) entrance to the county courthouse, near the base of the right-hand columns of two false arches forming part of the entrance, 5 inches from adjacent corners of the columns. A copper bolt. (167.143 meters or 548.368 feet.)

N 2.—About 5 miles east of Greenville, Hunt County, 6 feet west of the telegraph pole south of and directly opposite the switch stand at the east end of the new siding (to be called *Husband*), near milepost 719 of the Missouri, Kansas & Texas Railway, on a T-shaped section of iron rail, 42 inches long, projecting about 10 inches above the ground, and is marked by a large cross made with chisel where the base and stem of the T join, and stamped U X S B M. (173.272 meters or 568.477 feet.)

O 2.—At Campbell, Hunt County, 9 paces south of the main track of the Missouri, Kansas & Texas Railway, 10 feet east of the railroad-crossing sign about 175 feet east of the station. The side of the top of the post has a piece broken off. A stone post with square hole in top. (178.531 meters or 585.730 feet.)

P 2.—At Cumby, Hopkins County, in the First National Bank Building, on the west side, near the southwest corner, about 4 feet from the ground, 5 bricks from the corner, and about midway between the corner and the window. A copper bolt. (197.849 meters or 649.110 feet.)

Q 2.—At Brashear, Hopkins County, directly opposite the Missouri, Kansas & Texas Railway station, 23 paces south of the main track, 5 feet from the right-of-way fence and 38 paces west from the corner of this fence near the road crossing. A stone post with square hole in top. (166.974 meters or 545.006 feet.)

B 2.—At Sulphur Springs, Hopkins County, to the right of entrance, at Church and Jefferson Streets, of the county courthouse, in the red sandstone cap to a small basement window facing Church Street, 6 inches from the top and the left side of the window cap. A copper bolt. (153.502 meters or 503.614 feet.)

S 2.—At Como, Hopkins County, 10 paces north of the Missouri, Kansas & Texas Railway track, in a triangle formed by a telegraph pole and two guys thereto, about 100 feet east of and across tracks from the station. A stone post with square hole in top. (162.234 meters or 532.263 feet.)

T 2.—At Pickton, Hopkins County, about 150 feet west of the Missouri, Kansas & Texas Railway station, 4 paces west of the first telegraph pole west of the station, 9 paces north of the track, in line with the telegraph poles. A stone post with square hole in top. (163.639 meters or 536.872 feet.)

U 2.—At Winnsboro, Wood County, in the north face of the First National Bank Building, in the second brick from the corner just to left of entrance and about 4 feet above the ground. A copper bolt. (162.575 meters or 533.382 feet.)

V 2.—At Scroggins, Franklin County, about 7 feet within the right-of-way fence of the Missouri, Kansas & Texas Railway, 12 paces south of and at right angles to the track from a point 45 feet east of the east end of wooden bridge, 6 telegraph poles east of station sign. A stone post with square hole in top. (108.462 meters or 355.846 feet.)

W 2.—At Leesburg, Camp County, about 250 feet from the Missouri, Kansas & Texas Railway station, 9 feet south of the second telegraph pole east of and across the tracks from the station. A stone post with square hole in top. (119.135 meters or 390.862 feet.)

X 2.—At Pittsburg, Camp County, one-fourth mile west of the Missouri, Kansas & Texas Railway station, on a concrete arched culvert, one telegraph pole east of milepost 786, and about 60 feet east of water tank, in the top of the coping to the north side, 6 inches from the north, and 8 inches from the east edge. A copper bolt. (117.822 meters or 386.554 feet.)

Y 2.—At Pittsburg, Camp County, in the west face of the Carnegie Library Building, about 4 feet from the ground, in the middle brick of the second course of brick above the concrete forming the base of the pilaster at the right of the small entrance on the west side of the building. A copper bolt. (121.279 meters or 397.897 feet.)

Z 2.—At Cason, Morris County, 15 paces south of the Missouri, Kansas & Texas Railway track, in an angle of the fence on the west side of the road crossing, 7 telegraph poles west of station and 5 feet from the south and east fences. A stone post with square hole in top. (99.377 meters or 326.039 feet.)

A 3.—At Daingerfield, Morris County, in the west side of the county courthouse, in the center of the fourth brick from the northwest corner of the building, about 4 feet from the ground and midway between the window and the northwest corner. A copper bolt. (122.766 meters or 402.775 feet.)

B 3.—At Hughes, also called Hughes Spring, Cass County, in the west face of a brick building owned by Mr. T. B. Keaster, in the new part of building, in the double column where the old and the new buildings join, 11 paces from the northwest corner of the building and in the twenty-first tier of brick above the concrete sidewalk. A copper bolt. (115.273 meters or 378.192 feet.)

C 3.—At Avinger, Cass County, 26 paces north of the old track, 19 paces west of the old railroad station, 2 telegraph poles east of milepost 817 of the Missouri, Kansas & Texas Railway, 12 paces north of the public road paralleling the railroad. A stone post with square hole in top. (120.456 meters or 395.196 feet.)

D 3.—About 1 mile east of Avinger, Cass County, and 2½ telegraph poles west of milepost 818 of the Missouri, Kansas & Texas Railway, on south side of an arched concrete culvert under the new grade in center of the top of the coping, about 13 inches from the west end. A copper bolt. (121.790 meters or 399.572 feet.)

E 3.—At Lassater, Marion County, 9 paces north of the old abandoned grade of the Missouri, Kansas & Texas Railway, 35 paces north of the new track, 10 feet east of the second telegraph pole (old line), west of the platform used as station, 44 paces west of the railroad-crossing sign at the road crossing. A stone post with square hole in top. (101.994 meters or 334.626 feet.)

F 3.—At Kellyville, Marion County, 30 feet west of and across the Missouri, Kansas & Texas Railway track from the switch stand at the west end of the siding, between the third and fourth telegraph poles east of milepost 830,

14 paces north of the track, in an angle formed by the right-of-way fence and the fence crossing the railroad. A stone post with square hole in top. (89.432 meters or 293.411 feet.)

G 3.—At Jefferson, Marion County, 7 feet north of the telegraph pole just opposite the Missouri, Kansas & Texas Railway station, almost in line with the east end of the building and 16 paces north of the track. A stone post with square hole in top. (57.743 meters or 189.445 feet.)

I 3.—At Norwood, Harrison County, and directly across the Missouri, Kansas & Texas Railway track from the second telegraph pole east of milepost 843, and halfway between the second and third poles west of the mail-catch stand, 30 paces north of the track and about 5 feet inside of the right-of-way fence. A stone post with square hole in top. (83.097 meters or 207.010 feet.)

J 3.—At Karnack, Harrison County, about 600 feet east of and across the tracks from the Missouri, Kansas & Texas Railway Station, 12 paces east of and 18 paces south of the fourth telegraph pole west of milepost 848, 24 paces south of the track and 10 paces north of the right-of-way fence. A stone post with square hole in top. (70.484 meters or 231.247 feet.)

K 3.—At Blocker, Harrison County, about 230 feet east of the Missouri, Kansas & Texas Railway station, 4 paces south of the second telegraph pole east of the station and 12 paces south of the track. The top of a corner of the post is broken off. A stone post with square hole in top. (80.730 meters or 264.862 feet.)

L 3.—At Waskom, Harrison County, about 250 feet west of the Missouri, Kansas & Texas Railway station and 8 paces south of track, 6 feet southwest of third telegraph pole west of station. A stone post with square hole in top. (91.211 meters or 299.248 feet.)

LINE III, FORT WORTH TO COMANCHE, TEX.

This is a spur line from the precise level net following the Fort Worth & Rio Grande Railway from Fort Worth to the vicinity of Granbury where it connects with station Comanche of the ninety-eighth meridian triangulation. The field work was done by Ralph L. Libby, aid, between November 22 and December 18, 1902.

For additional bench marks at Fort Worth, see pages 23, 24, 45, and 46.

M 3.—At Fort Worth, Tarrant County, on top of the stone base to one of the iron supports to the viaduct over the tracks, one-fourth mile west of the Texas & Pacific Railway station. The mark is on the base under the second support east in the second row north of the main track, at the southeast corner, $3\frac{1}{2}$ inches from the south and east edges. A square cut. (188.595 meters or 618.749 feet.)

N 3.—A mile east of Belt Junction, Tarrant County, 15 paces from the eighth telegraph pole west of milepost 3 on Fort Worth & Rio Grande Railway, on the southwest corner of the west abutment of a culvert. A square cut. (199.609 meters or 654.884 feet.)

O 3.—At Primrose, Tarrant County, 5 poles west of the station sign, 6 telegraph poles east of milepost 12, in an angle of the right of way fence on the Fort Worth & Rio Grande Railway, 16 paces north of the track. A stone post with square hole in top. (234.932 meters or 770.773 feet.)

P 3.—At Virgile, Tarrant County, 10 feet north of the third pole west of the station sign, in an angle of the right of way fence on the Fort Worth & Rio Grande Railway, 15 paces north of the track. A stone post with square hole in top. (287.910 meters or 944.585 feet.)

Q 3.—In Parker County, just across the county line from Cresson, Hood County, 50 paces east of the station, 5 paces east of milepost 25, and 20 paces north of the track of the Fort Worth & Rio Grande Railway. A stone post with square hole in top. (318.550 meters or 1,045.109 feet.)

R 3.—At Waples, Hood County, 3 paces north of the first telegraph pole east of milepost 34, and 15 paces north of the tracks on the Fort Worth & Rio Grande Railway. A stone post with square hole in top. (256.450 meters or 841.889 feet.)

S 3.—At Granbury, Hood County, on the east side of the Hood County Courthouse, 10 feet north of the east door, in the stone water table, $4\frac{1}{2}$ feet from the ground. A copper bolt. (220.989 meters or 725.028 feet.)

Comanche (U. S. G. S. triangulation station).—About 4.5 miles southwest of Granbury, Hood County, on "Comanche Peak," in open ground and near the southern edge, 49 meters (161 feet) from the reference mark. The station mark of the Geological Survey, a stone about 15 inches in diameter and 3 inches thick, was removed, and the same point was marked by a 60-penny wire nail set in the upper end of a galvanized pipe, 2 inches in diameter and 18 inches long, which pipe was filled with concrete, level with the surface of the ground, the top of the pipe being covered one-half inch with cement. (374.658 meters or 1,229.190 feet.)

Comanche (triangulation station reference mark).—About 4.5 miles southwest of Granbury, Hood County, on "Comanche Peak," at the edge of the timber southwest of the open ground, 49 meters (161 feet) from the triangulation station. The top of a 60-penny wire nail set in cement one-half inch above the top of a terra cotta pipe, 2 feet long. (373.964 meters or 1,226.914 feet.)

LINE IV, FORT WORTH TO LAMPASAS, TEX.

This line follows the Missouri, Kansas & Texas Railway from Fort Worth southward to Temple and the Gulf, Colorado & Santa Fe Railway from Temple to Lampasas where connection is made with triangulation stations of the nine-eighth meridian triangulation. The section from Temple to Lampasas is a spur line from the precise level net. The field work was done by Ralph H. Libby, aid, between December 20, 1902, and March 25, 1903.

For bench marks at Fort Worth, see pages 23, 24, 27, 45, and 46.

T 3.—At Bethel, Tarrant County, one-half mile north of the siding, 50 feet west of the railroad track, in the right of way of the Missouri, Kansas & Texas Railway main line, 3 feet east of the telegraph pole opposite milepost 764. A stone post with square hole in top. (207.974 meters or 682.328 feet.)

U 3.—At Burleson, Johnson County, in the brick building used as the post office, in the east front, 4.5 feet above the sidewalk, in a panel north of the northernmost window. A copper bolt. (217.952 meters or 715.064 feet.)

V 3.—At Egan, Johnson County, in the Missouri, Kansas & Texas Railway right of way at the left and 7 feet below the track, 50 feet northeast of the south switch and 3 feet from the telegraph pole, the second one south of the station sign. The railway company reported in May, 1903, that on account of grading necessary for the construction of new tracks the bench mark was covered 6 feet. The following bench mark, "R. R.," was then established. A stone post with square hole in top. (252.164 meters or 827.308 feet.)

R. R.—At Egan, Johnson County, and consists of a piece of rail placed in the ground in front of the ticket window, established by the Missouri, Kansas & Texas Railway engineers. The end of the ball of the top of the rail is 10.00 feet above bench mark V 3. (255.212 meters or 837.308 feet.)

W 3.—At Alvarado, Johnson County, one-fourth mile south of the station, in north stone abutment of the Missouri, Kansas & Texas Railway iron bridge, on the lowest step west of the track and $3\frac{1}{2}$ feet below its level. It is 8 inches from the south and 10 inches from the west edge of the stone. The bottom of a square hole. (206.728 meters or 678.240 feet.)

X 3.—At Conley, Johnson County, 25 feet east of the Missouri, Kansas & Texas Railway track, in the right of way near the first telegraph post north of the south switch. A stone post with square hole in top. (227.260 meters or 745.602 feet.)

Y 3.—At Grand View, Johnson County, in the west wall near the northwest corner of the brick building occupied by the post office on the south side of Main Street and across from the Missouri, Kansas & Texas Railway tracks, about 300 yards south of the depot; 4 feet above the sidewalk, and 10 inches from the corner of the building. A copper bolt. (213.109 meters or 699.175 feet.)

Z 3.—At Itasca, Hill County, in the brick building leased by the Itasca National Bank, in the west front, north of large window, 4 feet from the walk. The building is the second one from Maine Street and on the east side of the street. A copper bolt. Reported destroyed in 1919. (215.966 meters or 708.548 feet.)

A 4.—At Schofield, Hill County, 3 feet east of the fourth telephone pole south of the station sign, in the Missouri, Kansas & Texas Railway right of way, 50 feet west of the track, and 1 foot from the right-of-way fence. A stone post with square hole in top. (200.082 meters or 656.435 feet.)

B 4.—At Hillsboro, Hill County, in white stone in the northwest corner of the Hill County Courthouse, in the cornice about 5 feet from the ground and 1½ feet north of the waterspout. It faces west, being set in a recess of the corner. A copper bolt. Reported destroyed in 1919. (193.171 meters or 633.762 feet.)

C 4.—About 1.5 miles north of the depot at Abbott, Hill County, 35 feet east of the Missouri, Kansas & Texas Railway track and 10 feet from the right-of-way fence, 6 feet northwest of the fifth telegraph pole south of bridge No. 672, near the opening of the first railway cut north of Abbott. A stone post with square hole in top. (211.635 meters or 694.339 feet.)

D 4.—At West, McLennan County, in the brick building on Main Street, on the east side of the street and faces the Missouri, Kansas & Texas Railway track. It is south of the south window of the third store north of Boone Street. The building is occupied by a grocery, and is two doors north of the West National Bank. A copper bolt. (199.807 meters or 655.533 feet.)

E 4.—At Elm Mott, McLennan County, in the Missouri, Kansas & Texas Railway right of way 40 feet east of the track, in angle of the right-of-way fence, and 2 feet west of the second telegraph pole, south of the depot, directly across the track from the cattle-loading pen, opposite a small brown house on the road leading south from the station. A stone post with square hole in top. (156.910 meters or 514.796 feet.)

F 4.—At Waco, McLennan County, in a brick building on the southeast corner of Third and Jackson Streets. A copper bolt in the northwest side of the building, 3 feet 9 inches above the ground. (125.909 meters or 413.086 feet.)

Hydrant 1.—At Waco, McLennan County, on the southeast corner of South First and Jackson Streets. The bench mark is the top of the hydrant. (122.805 meters or 402.903 feet.)

Hydrant 2.—At Waco, McLennan County, on the northwest corner of Thirteenth and Jackson Streets, near large cotton factory. The bench mark is the top of the hydrant. (130.029 meters or 426.603 feet.)

G 4.—At Waco, McLennan County, at the northwest corner of Fifth and Jackson Streets, in a brick building occupied by bottling works, 10 inches below the third window from the front of the building on the side toward the Missouri, Kansas & Texas Railway main track. A copper bolt. (126.304 meters or 414.382 feet.)

H 4.—At Hewitt, McLennan County, between two telegraph poles, 100 yards north of the Missouri, Kansas & Texas Railway station, 4 feet from either pole, and about 70 feet west of the track, in the right of way. A stone post with square hole in top. (199.685 meters or 655.133 feet.)

I 4.—At Lorena, McLennan County, 100 feet east of the Missouri, Kansas & Texas Railway track, in very rocky ground about two telegraph poles south of the water tank, and near the highway, across the track from a cotton gin. A stone post with square hole in top. (179.600 meters or 589.288 feet.)

J 4.—At Eddy, McLennan County, in the Missouri, Kansas & Texas Railway right of way, 45 feet west of the track, and 300 yards north of the depot. The stone is in rocky ground, and could be sunken only a part of its length, the stones and dirt being mounded about it to a height of 1 foot. A stone post with square hole in top. (204.513 meters or 670.978 feet.)

K 4.—At Troy, Bell County, 5 feet south of the second telegraph pole south of the Missouri, Kansas & Texas Railway depot, 50 feet east of the main track, 30 feet west of the side track. A stone post with square hole in top. (206.686 meters or 678.102 feet.)

L 4.—At Temple, Bell County, at the crossing of the Missouri, Kansas & Texas and the Gulf, Colorado & Santa Fe railways, 60 feet west from the Missouri, Kansas & Texas Railway track, and 40 feet north of the Gulf, Colorado & Santa Fe Railway track, halfway between a telephone pole and its guy-wire pole. A stone post with square hole in top. (205.254 meters or 673.404 feet.)

M 4.—At Temple, Bell County, on the south side of the stone building on the corner of Depot and Main Streets, in the alley corner of the building, 3 feet above the sidewalk, and 8 inches from the corner of the building. A copper bolt. (214.198 meters or 702.748 feet.)

N 4.—At Temple, Bell County, in the right of way of the Missouri, Kansas & Texas Railway, across the track from a large cotton oil mill, 35 feet east of the main track and 1 foot from the fence, 6 feet south of a telephone pole and diagonally opposite the railroad-crossing sign. A stone post with square hole in top. (209.543 meters or 687.476 feet.)

O 4.—Near Belton, Bell County, in the northwest stone abutment of the iron bridge of the Gulf, Colorado & Santa Fe Railway across the Leon River, 2 inches from the north and east edges of the top stone. The bottom of a square hole. (155.003 meters or 508.539 feet.)

P 4.—At Nolanville, Bell County, 3 feet south of the first telegraph pole west of milepost 238 of the Gulf, Colorado & Santa Fe Railway in the right of way, 30 feet south of the track. A stone post with square hole in top. (203.096 meters or 666.324 feet.)

Q 4.—Near Killeen, Bell County, in the right of way of the Gulf, Colorado & Santa Fe Railway, 2 feet south of milepost 241, and 60 feet south of the track. A stone post with square hole in top. (239.975 meters or 787.318 feet.)

R 4.—Near Copperas Cove, Coryell County, in the right of way of the Gulf, Colorado & Santa Fe Railway, 10 feet south of the first telegraph pole east of milepost 250 and 40 feet south of the railroad. A stone post with square hole in top. (286.491 meters or 939.929 feet.)

S 4.—About 0.2 mile east of Copperas Cove, Coryell County, in the north top stone of the stone arch on the Gulf, Colorado & Santa Fe Railway, 2 inches from the north and east edges of the stone, and 4 feet below the track level. The bottom of a square hole. (326.857 meters or 1,072.363 feet.)

Gilmore (triangulation station).—About 2 miles southwest of Copperas Cove, Coryell County on the land of J. N. Gilmore, about $1\frac{1}{2}$ miles southwest of H. B. Scott's house and about $\frac{1}{2}$ mile south of C. H. Casper's house, on the highest point of a wooded starfish-shaped mountain, 150 yards north of the place where the telephone line crosses the ridge. The bench mark, which is 91.106 meters (298.904 feet) southwest of the reference mark, is the top of a 60-penny wire nail set in the upper end of a 2-inch galvanized-iron pipe, 18 inches long and filled with concrete, the top of the concrete being level with the surface of the ground and 1.5 inches above the top of the pipe. (392.130 meters or 1,286.513 feet.)

Gilmore (triangulation station reference mark).—About 2 miles southwest of Copperas Cove, Coryell County, and 91.106 meters (298.904 feet) northeast of Gilmore triangulation station. The top of a 60-penny wire nail set in concrete $\frac{1}{2}$ inch above the top of a terra cotta pipe 2 feet long. (390.654 meters or 1,281.671 feet.)

T 4.—Near Kempner, Lampasas County, in the right of way of the Gulf, Colorado & Santa Fe Railway, 60 feet south of the track and halfway between milepost 262 and the right-of-way fence. A stone post with square hole in top. (272.514 meters or 894.078 feet.)

U 4.—About 3 miles east of Lampasas, Lampasas County, in the right of way of the Gulf, Colorado & Santa Fe Railway, 20 feet south of the track, 20 feet from the fence, and 50 feet west of milepost 271. A stone post with square hole in top. (298.904 meters or 980.654 feet.)

Lampasas northeast base (triangulation station).—About 2.5 miles south 80° E. of Lampasas, Lampasas County, 250 meters (820 feet) north of the "Lampasas-Belton" Road, and about 300 meters (984 feet) south of Sulphur Creek, on the highest and most northerly wooded point on the land of J. W. Mosely. A stone post in whose top is a disk containing two concentric circles between which are the letters "U. S. C. & G. S." The surface of the inner circle is the bench mark. (315.434 meters or 1,034.886 feet.)

Lampasas southwest base (triangulation station).—About 2 miles southeast of Lampasas, Lampasas County, on the land of J. H. H. Berry. A stone post in whose top is a disk containing two concentric circles between which are the letters "U. S. C. & G. S." The surface of the inner circle is the bench mark (381.574 meters or 1,251.881 feet.)

LINE V, TEMPLE TO HOLLAND, TEX.

This line follows the Missouri, Kansas & Texas Railway from Temple to Holland, Tex. The field work was done by Ralph H. Libby, aid, between March 27 and April 9, 1903.

For bench marks at Temple, see page 29.

V 4.—One-fourth mile south of Little River, Bell County, in the right of way of the Missouri, Kansas & Texas Railway, 70 feet west of the main track and 7 feet south of the telephone pole opposite milepost 888. A stone post with square hole in top. (150.154 meters or 492.630 feet.)

W 4.—One-fourth mile south of **Holland**, Bell County, in the northeast concrete abutment of the iron bridge, 1 inch from the south and east edges of the stone (artificial) shelf on which the ironwork rests. A square cut. (154.684 meters or 507.493 feet.)

X 4.—At **Holland**, Bell County, in the brick building occupied by the Bank of Holland. The building is on the north side of the main street and is the easternmost building of the row. The bench mark is 3 feet from the corner and 4 feet from the ground, in the wall facing the Missouri, Kansas & Texas Railway track. Building partially burned and rebuilt previous to November, 1903, but without apparently changing the bench mark. A copper bolt. (160.942 meters or 528.024 feet.)

Y 4.—At **Holland**, Bell County, in the east wall of the building occupied and owned by the Mewhinney Mercantile Co. It is 4 feet from the northeast corner, 4 feet from the ground, and slightly above the stairway leading to the public hall. A copper bolt. Reported destroyed, November, 1903. (161.108 meters or 528.568 feet.)

Z 4.—At **Holland**, Bell County, in a brick culvert 300 yards north of the Missouri, Kansas & Texas Railway station. The cut is east of the track and 2 inches from the north and east edges of the cement top of the culvert. A square cut. (160.508 meters or 526.593 feet.)

LINE VI, HOLLAND TO NEW BRAUNFELS, TEX.

This line follows the Missouri, Kansas & Texas Railway from Holland to San Marcos and the International & Great Northern Railway from San Marcos to a few miles north of New Braunfels, where it leaves the railroad and follows the highways about 6 miles to the Seguin base of the ninety-eighth meridian triangulation, and thence extends to New Braunfels. A spur line follows the Houston & Texas Central Railroad from Elgin to Austin and thence over highways, about 8 miles to station Barton of the ninety-eighth meridian triangulation. The field work was done by G. C. Baldwin and F. H. Sewall, aids, between November 5, 1903, and February 16, 1904.

For bench marks at Holland, see page 31.

A 5.—About three-fourths mile north of **Bartlett**, Williamson County, 20 feet south of milepost 902 of the Missouri, Kansas & Texas Railway, 6 feet east of a telegraph pole west of the track, and 3 feet east of the barbed-wire fence. A stone post with square hole in top. (180.196 meters or 591.193 feet.)

B 5.—At **Granger**, Williamson County, in the southwest corner of Charles Shoemaker's lot on the corner of Commerce and Ash Streets, 2.5 feet northeast of the picket fences surrounding the lot and about 140 feet east of the track of the Missouri, Kansas & Texas Railway. A stone post with square hole in top. (175.457 meters or 575.645 feet.)

C 5.—At **Granger**, Williamson County, at the northeast corner of the main entrance to the First National Bank Building, of Granger, a copper bolt, unlettered, leaded vertically in the top of the triangular limestone step, about 6 millimeters (0.24 inch) below the wearing surface. (175.427 meters or 575.547 feet.)

D 5.—About 0.4 mile north of **Circleville**, Williamson County, on the Missouri, Kansas & Texas Railway, about 60 meters (197 feet) south of the south abutment of the bridge over San Gabriel Creek; the bottom of a square hole, 1 by 1 by $\frac{1}{4}$ inch, in the top of the sandstone base of the southeast column of the railroad water tank, which column is 3 feet square, 2.5 feet above ground, and 2 meters (7 feet) west of the tracks. (164.576 meters or 539.947 feet.)

E 5.—At **Taylor**, Williamson County, in the grass plot or gore park east of the station of the International & Great Northern Railway; 25.5 meters (84 feet) east of the east wall of the station and 17.8 meters (58 feet) north of the center of the track nearest the station. A stone post with square cut in top. (166.002 meters or 544.625 feet.)

F 5.—At **Taylor**, Williamson County, in the south wall of the Taylor National Bank, a brick building with the first story granite, on the corner of Main

and Second Streets, 20 feet west of the east entrance and 2.5 feet above the sidewalk. A square cut. (168.487 meters or 552.614 feet.)

526 Coupland (U. S. G. S.).—At Coupland, Williamson County, opposite the station, 50 feet east of main track of the Missouri, Kansas & Texas Railway and 5 feet east of the southwest corner of the fence inclosing the section-house yard. An iron post marked "526." (157.591 meters or 517.030 feet.)

G 5.—About 0.2 mile south of Coupland, Williamson County, $9\frac{1}{2}$ rails north from milepost 927 of the Missouri, Kansas & Texas Railway, opposite the south end of the first switch west of the main track, 35 feet west of the main track and 4 feet east of the right-of-way fence. A stone post with square hole in top. (160.359 meters or 526.111 feet.)

576 S. A. (U. S. G. S.).—At Elgin, Bastrop County, at the Union passenger station, 7 feet east of the southeast corner of a small park, 115 feet east of the crossing of the Missouri, Kansas & Texas Railway and the Houston & Texas Central Railroad and 20 feet north of Houston & Texas Central Railroad main track. An iron post marked "576 S. A." (173.128 meters or 568.004 feet.)

For additional bench marks at Elgin, see page 33.

Spur line to Austin.

K 5.—At Littig, Travis County, in the southwest corner of the yard of section house 115, of the Houston & Texas Central Railroad, almost opposite the east end of the switch and about 8 meters north of the main track, about 1.2 meters north and east, respectively, of the south and west fences bounding the yard. A stone post with square hole in top. (140.544 meters or 461.101 feet.)

L 5.—At Manor, Travis County, in the front wall of the brick building owned by Mr. Harris and occupied by W. H. Richardson, hardware and general merchandise, facing on the main street of the town; the center of a cross cut in the face of a copper bolt, unlettered, leaded horizontally, about 1.4 meters above the sidewalk and about 0.6 meter west of the show window. (163.002 meters or 534.783 feet.)

M 5.—At Daffan, Travis County, about 445 meters (1,460 feet) west of the Houston & Texas Central Railroad depot, 56 meters (184 feet) west of the first cattle guard west of the station, 1 meter south of the line of telegraph poles and 7 meters north of the main track. A stone post with square hole in top. (185.453 meters or 608.440 feet.)

N 5.—About 5.5 miles east of the Houston & Texas Central Railroad depot at Austin, Travis County, 1.35 meters north of the main track on the west stone abutment of the railway bridge over Walnut Creek, the top of a copper bolt leaded vertically into the top of the stone, 0.18 meter west of the east edge, and roughly lettered "U. S. B. M." (137.145 meters or 449.950 feet.)

O 5.—At Austin, Travis County, in the Driskill Hotel building on the corner of Brazos and Sixth Streets, the top of a copper bolt, unlettered, leaded vertically into the top of the limestone step to the first door west of the entrance to the American National Bank, about 1.2 meters from the door and 0.5 meter from the wall. (149.448 meters or 490.314 feet.)

P 5.—At Austin, Travis County, in the passenger depot of the Houston & Texas Central Railroad, on the corner of Congress Avenue and East Third Street, in the face of the south wall, bay projection, just west of the large door to the general truck or baggage room, about 1.75 meters from the ground and 0.2 meter from the inside corner. A copper bolt. (146.092 meters or 479.304 feet.)

Geol. Austin (U. S. G. S.).—At Austin, Travis County, in the freight yard of the Houston & Texas Central Railroad, 60 meters (197 feet) west of the office door of the freight depot. An iron post close to a telegraph pole and 5 meters north of the northernmost track. (141.897 meters or 465.541 feet.)

North meridian mark.—At Austin, Travis County, on Capitol Hill, a cross on the copper bolt in the center of the top of the square stone pillar marking the north end of the meridian line established in 1872. (166.100 meters or 544.947 feet.)

508 Austin (U. S. G. S.).—At Austin, Travis County, on the southwest corner of the post office, facing Colorado Street. A disk. (153.043 meters or 502.109 feet.)

476 Austin (U. S. G. S.).—At Austin, Travis County, in the west end of the south rock pier of the highway bridge over the Colorado River. A copper bolt marked "476 feet." (143.243 meters or 469.956 feet.)

Barton (triangulation station).—About 6 miles W. 19° N. of Austin, Travis County, on a prominent wooded hill on the north side of the Austin and Bee Caves road, abreast and north of the 8-mile post from Austin. A chisel mark on the rim of a 2-inch iron pipe embedded in and filled with concrete, with a nail projecting from the concrete. (315.700 meters or 1,035.759 feet.)

End of spur line.

H 5.—At Elgin, Bastrop County, on the east side of the station of the Missouri, Kansas & Texas Railway and the Houston and Texas Central Railroad, in the brick wall, 4 feet above the ground, 2 feet south of and 4 inches above the base of the bay window toward the Missouri, Kansas & Texas Railway track. A copper bolt. (175.252 meters or 574.973 feet.)

I 5.—About 1.2 miles south of the station at Elgin, Bastrop County, on the line of the Missouri, Kansas & Texas Railway, about 15 feet south from milepost 936, and 3 feet inside of the west right-of-way fence. A stone post with square hole in top. (166.068 meters or 544.841 feet.)

J 5.—About 0.5 mile north of the freight shed or station at Sayers (Sayersville post office), Bastrop County, 180 feet north of milepost 943, of the Missouri, Kansas & Texas Railway, 5 feet inside the east right-of-way fence. A stone post with square hole in top. (120.969 meters or 396.879 feet.)

Q 5.—About 1.4 miles south of Sayers (Sayersville post office), Bastrop County, on a large concrete culvert of the Missouri, Kansas & Texas Railway, about 140 meters (459 feet) north of a public road crossing, in the concrete of the culvert in the south corner of the east end, about 0.1 meter from each of the two edges of the corner of the culvert. A copper bolt. (130.810 meters or 429.166 feet.)

449 S. A. (U. S. G. S.).—About 1.5 miles south of Sayers (Sayersville post office), Bastrop County, and 8.4 miles north of Bastrop, halfway between the fourth and fifth telegraph poles south of milepost 945 of the Missouri, Kansas & Texas Railway, 5 feet east of the northwest corner of the right-of-way fence at the public road crossing. An iron post. Marked "449 S. A." (134.417 meters or 441.000 feet.)

R 5.—About 4 miles north of Bastrop, Bastrop County, 70 meters (230 feet) south of milepost 950 of the Missouri, Kansas & Texas Railway; a stone post in the line of telegraph poles, 8.5 meters east of the track and about 6.5 meters west of barbed-wire fence bounding the right of way. A stone post with square hole in top. (132.264 meters or 433.936 feet.)

460 S. A. (U. S. G. S.).—About 4.5 miles north of Bastrop, Bastrop County, at the crossing of the Bastrop and Elgin public road, 3 feet outside of the southeast corner of the right-of-way fence of the Missouri, Kansas & Texas Railway. An iron post, marked "460 S. A." (137.939 meters or 452.555 feet.)

365 S. A. (U. S. G. S.).—About 1.7 miles north of Bastrop, Bastrop County, on the Missouri, Kansas & Texas Railway, at the northeast end of the east rock pier of the bridge over Piney Creek. A copper bolt, marked "365 S. A.," in the top of the coping. (108.937 meters or 357.404 feet.)

372 Bastrop (U. S. G. S.).—At Bastrop, Bastrop County, 100 feet southwest of the Missouri, Kansas & Texas Railway freight depot and 50 feet south of the Bastrop and Lagrange County road. An iron post, marked "372." (111.728 meters or 366.561 feet.)

Geol. Bastrop (U. S. G. S.).—At Bastrop, Bastrop County, in the northeast part of the courthouse grounds, close to the iron fence on the north side of the grounds, and about 15 meters (49 feet) east of the pathway leading to the main entrance to the courthouse. A bronze tablet in the top of a square stone post. (111.999 meters or 367.450 feet.)

377 Bastrop (U. S. G. S.).—At Bastrop, Bastrop County, at the northwest side of the main entrance to the courthouse. A bronze tablet set in the brick wall, marked "377." (113.247 meters or 371.545 feet.)

S 5.—At Bastrop, Bastrop County, on the east side of the county jail, about 1.6 meters (5.2 feet) south of the northeast corner, and 1.2 meters (3.9 feet) above the ground; in the plaster-covered brick wall, 0.85 meter north of the window on the east side of the building nearest the northeast corner, and about 0.1 meter (0.3 foot) below the level of the window sill. A copper bolt. (113.393 meters or 372.024 feet.)

T 5.—About 2 miles south of Bastrop, Bastrop County, on the north stone abutment of the Missouri, Kansas & Texas Railway bridge over the Colorado River, 1.2 meters west of main track and 0.3 meter below the top of the rails,

in the top of the rough plaster-covered stone wall which forms the backing for the abutment. A copper bolt. (109.162 meters or 358.142 feet.)

359 Hills Prairie (U. S. G. S.).—At Hills Prairie, Bastrop County, 28 feet east of the south head block, near the right-of-way fence of the Missouri, Kansas & Texas Railway. An iron post, marked "359." (107.740 meters or 353.507 feet.)

U 5.—About 2 miles north of Upton, Bastrop County, on the south stone abutment of the Missouri, Kansas & Texas Railway bridge over Cedar Creek, on the southwest corner. The bottom of a square hole, 1½ inches square and ½ inch deep, cut in the top stone, 0.11 meter from the north and east edges, lettered "U. S. B. M." (101.822 meters or 334.061 feet.)

349 Upton (U. S. G. S.).—At Upton, Bastrop County, near the right-of-way fence of the Missouri, Kansas & Texas Railway, about 45 feet east of the head block at the south end of the switch. An iron post, marked "349." (104.712 meters or 343.543 feet.)

V 5.—About 1.3 miles south of Upton, Bastrop County, 420 meters (1,378 feet) north of milepost 964 of the Missouri, Kansas & Texas Railway. A stone post in the line of telegraph poles on the east side of the track, about midway between the track and the right-of-way fence. A stone post with square hole in top. (109.962 meters or 360.767 feet.)

329 Smithville (U. S. G. S.).—At Smithville, Bastrop County, 3 meters (10 feet) east of the second telegraph pole north of the railroad station, which is also the second telegraph pole south of milepost 969. An iron post, marked "329." (98.670 meters or 323.720 feet.)

W 5.—At Smithville, Bastrop County, in the brick building on Main Street owned by Ed. Eagleston and occupied by the American Express Co., in the partition wall between the express office and a barber shop, in a slight recess, 0.22 meter from either edge of the protruding wall and 1.13 meters above the pavement. A copper bolt. (100.622 meters or 330.124 feet.)

X 5.—At Smithville, Bastrop County, in the brick building of the Bank of Smithville, corner of Main and Second Streets, in the wall, 1.2 meters above the pavement and 0.3 meter from the edge of the wall at the window on Second Street. A copper bolt. (100.658 meters or 330.242 feet.)

Y 5.—At Smithville, Bastrop County, in the Masonic Building (of brick), corner of Main and Third Streets. The bottom of a square hole, unlettered, cut in the concrete ledge to the window on Third Street, 0.15 meter from the edge of the corner brick pillar and 0.12 meter from the window. (99.525 meters or 326.525 feet.)

433 S. A. (U. S. G. S.).—About 3.3 miles west of Smithville, Bastrop County, on the Missouri, Kansas & Texas Railway, about 0.2 mile east of milepost 972, and 25 feet northwest of a road crossing. An iron post, marked "433 S. A." Reported in very poor condition in 1904. (129.664 meters or 425.406 feet.)

460 S. A. (U. S. G. S.).—About 4.5 miles west of Smithville, Bastrop County, on the Missouri, Kansas & Texas Railway, near the second telegraph pole east of milepost 974, 65 feet northeast of the road crossing, in a corner of the fence. An iron post, marked "460 S. A." (137.936 meters or 452.545 feet.)

Z 5.—Near Rosanky, Bastrop County, in the right of way of the Missouri, Kansas & Texas Railway, 103 meters (338 feet) east of milepost 977 and 48 meters (157 feet) west of a road crossing, in the line of telegraph poles on the south side of the track. A stone post with square hole in top. (150.508 meters or 493.792 feet.)

512 S. A. (U. S. G. S.).—At Rosanky, Bastrop County, on the Missouri, Kansas & Texas Railway, 120 yards west of the station and 50 feet south of the crossing of the Rosanky and Jeddo public road. An iron post, marked "512 S. A." (153.729 meters or 504.359 feet.)

451 S. A. (U. S. G. S.).—About 0.2 mile east of the section house at Hemkens, Bastrop County, 4 miles west of Rosanky and 6 miles east of Red Rock, on the Missouri, Kansas & Texas Railway, about halfway between mileposts 983 and 984, and 45 feet southwest of the settlement road crossing. An iron post, marked "451 S. A." (134.950 meters or 442.748 feet.)

T. B. M. 117.—Just west of Hemkens, Bastrop County, the bottom of a square hole cut on the red rock base to the column at the northwest corner of the old water tank. (136.046 meters or 446.344 feet.)

A 6.—About 0.7 mile west of Hemkens, Bastrop County, on the right of way of the Missouri, Kansas & Texas Railway, 282 meters (925 feet) west of a water tank near mile post 984, in a red sandstone culvert, in the northwest corner of

the side north of the track, 0.37 meter from the north and west edges. A copper bolt. (135.952 meters or 446.035 feet.)

491 S. A. (U. S. G. S.).—At **Red Rock**, Bastrop County, 1,200 feet southeast of the passenger station on the Lockhart branch of the Missouri, Kansas & Texas Railway, 125 feet south of the track at the intersection of the Waelder and Red Rock and the Red Rock and Rosanky public roads. An iron post marked "491 S. A." Reported unstable in 1904. (147.148 meters or 482.768 feet.)

B 6.—At **Bateman**, Bastrop County, on the San Antonio branch of the Missouri, Kansas & Texas Railway, 18.6 meters (61 feet) northeast of the sign-board "Bateman," and about 18 meters (59 feet) south of Red Rock-Taylorville road crossing, 4.87 meters from the middle of the south rail, and 3.3 meters from the line of telegraph poles; the top of a copper bolt leaded vertically in an outcrop of red sandstone, 1.5 meters long by 0.4 meter wide by 0.2 meter high, with the letters "U. S." cut in the stone below the bolt. (144.027 meters or 472.529 feet.)

C 6.—About 0.7 mile east of **Dale**, Caldwell County, on the right of way of the Missouri, Kansas & Texas Railway, on a red sandstone culvert, 2.3 meters east of milepost 997; the top of a copper bolt leaded vertically into the center of the top of the upper southwest corner stone, 0.25 meter from the south and west edges of the culvert, roughly lettered "U. S. B. M." (152.427 meters or 500.088 feet.)

D 6.—Two and a half miles east of **Lockhart**, Caldwell County, on the right of way of the Missouri, Kansas & Texas Railway in the west limestone pier of the bridge over Plum Creek; the bottom of a square hole, unlettered, cut in the northwest corner of the top of the southernmost topstone, 0.2 meter from the joint, 0.1 meter from the west edge, and 0.9 meter south of the south rail of the track. (130.791 meters or 429.103 feet.)

Geol. Lockhart (U. S. G. S.).—At **Lockhart**, Caldwell County, 30 feet south of the track of the Missouri, Kansas & Texas Railway, 200 feet west of the transfer track of the San Antonio & Aransas Pass Railway, and 40 feet west of the road; an iron post. Reported slightly loose in 1904. (153.834 meters or 504.704 feet.)

E 6.—At **Lockhart**, Caldwell County, on the county courthouse, in the east wall, about 1.2 meters from the northeast corner and about 1.2 meters above the ground, about 0.52 meter south of the granite corner stone, and 0.14 meter above the layer of red sandstone; a cross cut in the face of a copper bolt, leaded horizontally into a block of dressed limestone. (160.254 meters or 525.768 feet.)

F 6.—At **Lockhart**, Caldwell County, in the Eugene Clark Library Building, about 0.42 meter north of the southeast corner of the front wall of the building, and about 1.2 meters from the ground; a cross in the face of a copper bolt, leaded horizontally into the limestone window ledge, lettered "U. S. C." (159.747 meters or 524.108 feet.)

G 6.—About 0.5 mile west of the Missouri, Kansas & Texas Railway depot at **Lockhart**, Caldwell County, about 100 meters (328 feet) west of the westernmost switch in the yards, in the line of telegraph poles on the railroad right of way, south of the track. A stone post with square hole in top. (162.831 meters or 534.222 feet.)

Geol. Clear Fork (U. S. G. S.).—Four hundred feet east of the spur at **Clear Fork**, Caldwell County, 25 feet north of the center of the track of the Missouri, Kansas & Texas Railway, and 50 feet south of the San Marcos and Lockhart road crossing; an iron post. Reported very slightly loose in 1904. (179.659 meters or 589.747 feet.)

Geol. Maxwell (U. S. G. S.).—At **Maxwell**, Caldwell County, 30 feet south of the center of the main track of the Missouri, Kansas & Texas Railway, directly in front of the station; an iron post. (184.074 meters or 603.916 feet.)

H 6.—About 1.25 miles west of **Maxwell**, Caldwell County, 38 meters (125 feet) west of milepost 1014 of the Missouri, Kansas & Texas Railway, on the right of way 10 meters (33 feet) south of track. A stone post with square hole in top. (177.680 meters or 582.938 feet.)

100 S. A. (U. S. G. S.).—About 0.6 mile west of **Reedville**, Caldwell County, 10 feet west of the ninth telegraph pole east of milepost 1018 of the Missouri, Kansas & Texas Railway, 40 feet south of the track and 30 feet east of the wagon road. An iron post, marked "100 S. A." (177.091 meters or 581.006 feet.)

I 6.—At **San Marcos**, Hays County, opposite the freight depot of the International & Great Northern Railway and just south of the track, in the middle of the southeast face of the octagonal limestone base (3 meters high) of the steel

water tank, 1 meter above the ground. A copper bolt. (178.334 meters or 585.084 feet.)

J 6.—At San Marcos, Hays County, at the east entrance of the courthouse, in the face of the corner pillar of dressed limestone, about 1.5 meters north from the entrance and 1.5 meters above the ground. A copper bolt. (188.596 meters or 618.752 feet.)

K 6.—At San Marcos, Hays County, in the building of the Glover National Bank, in the top of the limestone ledge step below the window at the left of the entrance, in the center of the step. A copper bolt. (189.988 meters or 623.319 feet.)

585 San Marcos (U. S. G. S.).—Near San Marcos, Hays County, on the International & Great Northern Railway bridge over San Marcos River, in the west end of the north rock pier. A copper bolt, marked "585 feet." (176.100 meters or 577.755 feet.)

L 6.—About 2.8 miles east of Hunter, Comal County, 25 meters (82 feet) east of milepost 214 of the International & Great Northern Railway, on the right of way, 6 meters (20 feet) south from the track. A stone post with square hole in top. (205.077 meters or 672.823 feet.)

627 Yorks (U. S. G. S.).—Near Hunter, Comal County, on the International & Great Northern Railway bridge over Yorks Creek, near milepost 219, in the top of the west end of the north rock pier. A copper bolt, marked "627 feet." (189.481 meters or 621.656 feet.)

M 6.—One mile west of Hunter, Comal County, 210 meters (689 feet) east of milepost 218, on the right of way of the International & Great Northern Railway, opposite the post with the sign "Hunter, 1 mile," 4.5 meters east of a crossing. A stone post with square hole in top. (197.796 meters or 648.936 feet.)

N 6.—Two hundred meters (656 feet) east of Goodwin, Comal County, on the right of way of the International & Great Northern Railway, opposite the switch block at the east end of the siding, 16 meters (52 feet) north of the track. A stone post with square hole in top. (210.440 meters or 690.418 feet.)

695 S. A. (U. S. G. S.).—At Goodwin, Comal County, opposite the station, in the right of way of the International & Great Northern Railway, 50 meters (164 feet) north of milepost 223 and 12 meters (39 feet) east of the track. An iron post marked "92 S. A. 695 feet." (210.305 meters or 690.173 feet.)

T 6.—In Guadalupe County, about 4 miles southeast of New Braunfels, Comal County, on the New Braunfels-Seguin highway, about 10 meters (33 feet) east from the center of the road, in the northwest corner of the front yard of Gottfried Janer, 1 meter from both the north and west yard fences. A stone post with square hole in top. (187.743 meters or 615.953 feet.)

Seguin west base (triangulation station).—About 6.5 miles from New Braunfels, Comal County, 1,100 meters (3,609 feet) west of the Seguin-New Braunfels road and about 400 meters (1,312 feet) east of Guadalupe River, on a small hill covered with scattering mesquite brush, on the land of Henry Steinman. The base monument is a limestone block set in concrete and on its top a bronze disk, with an inner circle, countersunk, and the letters "U. S. C. & G. S." between the inner and outer circles. The center of the inner circle is the bench mark. (189.104 meters or 620.418 feet.)

Seguin east base (triangulation station).—Near Seguin, Guadalupe County, about 2 miles northwest of Von Beckman's store and gin, 1,050 meters (3,445 feet) east of the main road between Von Beckman's and New Braunfels, on the land of Henry Soerje, at the western edge of the live-oak timber. The monument is a limestone block set in concrete with a bronze disk on its top, consisting of two concentric circles, with the letters "U. S. C. & G. S." between them. The inner circle is countersunk, and its center is the bench mark. (181.883 meters or 596.728 feet.)

O 6.—About 1.4 miles east of New Braunfels, Comal County, in the top of the northeast limestone pier of the bridge of the International & Great Northern Railway, over Guadalupe River; the bottom of a square hole, unlettered, 0.2 meter from the east edge and 0.6 meter from the north edge of the pier. (190.288 meters or 624.303 feet.)

638 Comal (U. S. G. S.).—Near New Braunfels, Comal County, on the International & Great Northern Railway Bridge over Comal Dry Creek, in the top of the north end of the east rock pier. A copper bolt, marked "638 feet." (193.028 meters or 633.293 feet.)

P 6.—At New Braunfels, Comal County, on the Opera House (of yellow brick) owned by Louis and Otto Seekatz, about 1.4 meters from the sidewalk, at the base of the window just to the left of the entrance on San Antonio

Street. The copper bolt which was the original bench mark was reported gone in 1917. (194.679 meters or 638.709 feet.)

Q 6.—At **New Braunfels**, Comal County, in the Comal County prison, at the left of the entrance to the building (of limestone), in the face of the square corner limestone pillar, about 1.5 meters above the sidewalk. A copper bolt. (193.622 meters or 635.242 feet.)

R 6.—At **New Braunfels**, Comal County, in the northwest part of the square park at the intersection of San Antonio and Seguin Streets, about 8 meters west of the center line of San Antonio Street, and 20 meters north of the center line of Seguin Street. A stone post with square hole in top. (192.180 meters or 630.511 feet.)

S 6.—At **New Braunfels**, Comal County, in the courthouse (of limestone), in the top of the low limestone wall, at the right of the steps leading to the side entrance on San Antonio Street; the bottom of a square hole, 3 centimeters square and 0.6 centimeter deep, lettered "U. S. C. & G. S." (193.183 meters or 633.801 feet.)

LINE VII, ALBUQUERQUE, N. MEX., TO EL PASO, TEX. (U. S. G. S.).

This is the Texas portion of a line of precise levels run by the U. S. Geological Survey from Albuquerque, N. Mex., to El Paso, Tex., along the Atchison, Topeka & Santa Fe Railway. The field work was done by M. S. Bright in 1905.

U. S. G. S. 3780.—Near **La Tuna**, El Paso County, 33 feet west of the main line of the Atchison, Topeka & Santa Fe Railway, about 4 feet north of the line between New Mexico and Texas. An iron post. (1,156.086 meters or 3,792.926 feet.)

U. S. G. S. 3774.—At **Vinton**, El Paso County, 21 feet east of the main line of the Atchison, Topeka & Santa Fe Railway, under the Vinton signboard. An iron post. (1,154.273 meters or 3,786.977 feet.)

U. S. G. S. 350B.—At **Canutillo**, El Paso County, 80 feet east of the main track of the Atchison, Topeka & Santa Fe Railway at the southwest corner of J. J. Cummins's house. An iron post. (1,147.504 meters or 3,764.769 feet.)

U. S. G. S. 354B.—About 1.5 miles south of **Montoya**, El Paso County, on the Atchison, Topeka & Santa Fe Railway, 40 feet west of a road crossing, 5 feet east of a fence corner. An iron post. (1,143.332 meters or 3,751.081 feet.)

U. S. G. S. 357B.—About 2.8 miles south of **Whites Spur**, El Paso County, 0.2 mile north of milepost 1150, 50 feet east of the Atchison, Topeka & Santa Fe Railway track, and 16 feet east of a public road. An iron post. (1,140.000 meters or 3,740.150 feet.)

U. S. G. S. 359B.—About 5.2 miles south of **Whites Spur**, El Paso County, 240 feet north of a public road crossing, 100 feet east of the river, 45 feet east of the Atchison, Topeka & Santa Fe Railway track, and 12 feet east of a wagon road. An iron post. (1,137.942 meters or 3,733.398 feet.)

Boundary 1.—Near **El Paso**, El Paso County. The top of the masonry at the northeast corner of Monument No. 1, marking the international boundary line. (1,185.822 meters or 3,726.443 feet.)

For bench marks at El Paso, see page 63.

LINE VIII, SMITHVILLE, TO GALVESTON, TEX.

This line follows the Missouri, Kansas & Texas Railway from Smithville to Houston, and the Galveston, Houston & Henderson Railroad from Houston to Galveston, Tex. At Galveston the line was connected with mean sea level. The field work was done by E. H. Pagenhart, aid, between December 9, 1905, and February 10, 1906.

For bench marks at Smithville, see page 34.

316 Primms Spur (U. S. G. S.).—At **Kirtley**, Fayette County, on the Missouri, Kansas & Texas Railway, back of the second telegraph pole east of milepost 974 and near the right-of-way fence. An iron post marked "316." (94.686 meters or 310.649 feet.)

U 6.—About 2 miles southeast of Kirtley, Fayette County, on the Missouri, Kansas & Texas Railway near milepost 976, in the east concrete abutment of bridge No. 2064, in the top surface, 1 meter from the north edge. A copper bolt. (94.982 meters or 311.820 feet.)

292 Westpoint (U. S. G. S.).—At Westpoint, Fayette County, in the northwest quarter of the railroad crossing, 90 feet from the San Antonio & Aransas Pass Railway and 40 feet from the Missouri, Kansas & Texas Railway, in a corner of the right-of-way fence. An iron post marked "295." (87.355 meters or 286.598 feet.)

V 6.—At Westpoint, Fayette County, 60 meters (197 feet) east of the Missouri, Kansas & Texas Railway station, in the northeast quarter of a grade crossing, 1 foot from the right-of-way fence, on land owned by J. L. House. A stone post with square hole in top. (90.317 meters or 296.315 feet.)

W 6.—At Plum, Fayette County, 4 telegraph poles west of the Missouri, Kansas & Texas Railway station, in the northwest quarter of a grade crossing, 1 foot from the right-of-way fence, on land owned by J. C. Brown, of La Grange. An iron pipe. (91.317 meters or 299.596 feet.)

X 6.—At Plum, Fayette County, 175 meters (574 feet) southeast of the Missouri, Kansas & Texas Railway station and 45 meters (148 feet) southwest of the tracks, in the corner of a fence about 15 meters (49 feet) northwest of a store, on land owned by Anton Legler. A stone post with square hole in top. (91.280 meters or 299.474 feet.)

Y 6.—About 2 miles northwest of Lagrange, Fayette County, on the Missouri, Kansas & Texas Railway, 14 telegraph poles west of milepost 987, 70 meters (230 feet) west of a grade crossing and 1 foot north of the right of way, in the corner of a fence, on land owned by Christian Diers. An iron pipe. (86.125 meters or 282.562 feet.)

Z 6.—At Lagrange, Fayette County, in the county courthouse at the Washington Street entrance, in the horizontal stone surface of the first step from the top, 0.7 foot from the south end. The bottom of a square hole. (82.191 meters or 269.655 feet.)

A 7.—At Lagrange, Fayette County, in the northeast corner of the First National Bank Building on Colorado Street, in the vertical surface of the water table, 0.7 foot from the east face. A brass disk. (82.038 meters or 269.153 feet.)

B 7.—At Lagrange, Fayette County, 275 meters (902 feet) northeast of the Missouri, Kansas & Texas Railway station, in the northeast quarter of a grade crossing and 1 foot northwest of the right of way, on the property of John Speckels. A stone post with square hole in top. (83.609 meters or 274.307 feet.)

C 7.—About 1.2 miles west of Halsted, Fayette County, on the Missouri, Kansas & Texas Railway, 30 meters (98 feet) west of milepost 993, in the southeast quarter of a private grade crossing and 2.2 feet south of the right of way, on land owned by Ernest Nitschke. An iron pipe. (99.883 meters or 326.059 feet.)

D 7.—About 450 meters (1,476 feet) west of Halsted, Fayette County, on the right of way of the Missouri, Kansas & Texas Railway, in the southeast quarter of a grade crossing and 2.2 feet from the fence. A stone post with square hole in top. (94.057 meters or 308.585 feet.)

E 7.—At Fayetteville, Fayette County, in the brick store owned by H. Zapp's Sons, in the concrete water table on the south side of the east entrance. A brass disk. (127.249 meters or 417.483 feet.)

F 7.—At Fayetteville, Fayette County, 18 meters (59 feet) east of the Missouri, Kansas & Texas Railway depot and 6 meters north of the tracks, in range with a row of trees in the parking. A stone post with square hole in top. (120.089 meters or 393.992 feet.)

G 7.—In Fayette County, about 2 miles west of Pisek, Colorado County, on the Missouri, Kansas & Texas Railway, nine telegraph poles west of milepost 1008, in the west abutment of bridge No. 2104, in the horizontal surface near the south end, 0.7 foot from the south edge of the capstone. A copper bolt. (82.634 meters or 271.108 feet.)

H 7.—About 8.5 miles west of New Ulm, Austin County, on the Missouri, Kansas & Texas Railway, 6 meters east of milepost 1010, in the corner of the right-of-way and cattle-guard fences. A stone post with square hole in top. (109.433 meters or 359.032 feet.)

I 7.—At New Ulm, Austin County, 100 meters (328 feet) northeast of the Missouri, Kansas & Texas Railway station, in the brick store owned by L. R.

Fink, in the east face of the building, 3 feet from the north end and 5 feet above the ground. A copper bolt. (122.557 meters or 402.089 feet.)

J 7.—At **New Ulm**, Austin County, on the Missouri, Kansas & Texas Railway, 225 meters (738 feet) west of milepost 1014, in the corner of the north right-of-way and cattle-guard fences. A stone post with square hole in top. (119.906 meters or 393.891 feet.)

K 7.—About 4.5 miles east of **New Ulm**, Austin County, on the Missouri, Kansas & Texas Railway, 9 telegraph poles east of milepost 1018 and 11 paces north of the tracks. An iron pipe. (110.185 meters or 361.489 feet.)

L 7.—At **Cat Spring**, Austin County, on the Missouri, Kansas & Texas Railway, 125 meters (410 feet) west of milepost 1024 and in the southwest quarter of a grade crossing. A stone post with square hole in top. (92.578 meters or 303.738 feet.)

M 7.—About 6 miles west of **Sealy**, Austin County, on the Missouri, Kansas & Texas Railway, 10 telegraph poles east of milepost 1029, in the northeast quarter of a grade crossing and 1 foot from the right-of-way fence. An iron pipe. (99.047 meters or 326.532 feet.)

N 7.—About 3.8 miles west of **Sealy**, Austin County, on the Missouri, Kansas & Texas Railway, 13 telegraph poles east of milepost 1031, in the northeast quarter of a grade crossing. A stone post with square hole in top. (66.604 meters or 218.516 feet.)

O 7.—At **Sealy**, Austin County, 35 meters (115 feet) east of the Missouri, Kansas & Texas Railway station, on the water tank, on top of the second concrete mudsill from the tracks, 0.3 foot from the west end of the sill. The bottom of a square hole. (62.046 meters or 203.563 feet.)

P 7.—At **Sealy**, Austin County, on Foulken Street, in the center of the east face of the brick store owned by A. Preibisch, 4.3 feet above the walk. A copper bolt. (62.240 meters or 204.199 feet.)

Q 7.—At **Sealy**, Austin County, on Foulken Street, in the cement walk in front of the brick store owned by Mistroit Bros. & Co., 0.5 foot from the northwest corner of the building. An outlined square. (61.074 meters or 200.374 feet.)

R 7.—About 1.5 miles east of **San Felipe**, Austin County, on the Missouri, Kansas & Texas Railway, halfway between the fourth and fifth telegraph poles west of milepost 1040, in the northwest quarter of a grade crossing and 1.6 feet from the right of way, on land owned by John Hluchan. An iron pipe. (45.059 meters or 147.831 feet.)

S 7.—About 0.5 mile east of **McDowell**, Austin County, on the Missouri, Kansas & Texas Railway, on bridge No. 2150 over the Brazos River, at the south end of the first pier west of the Austin-Waller county line, on the top surface of the southernmost short section of rail resting on the cement pier. An outlined square between two transverse girders. (37.954 meters or 124.520 feet.)

T 7.—About 3 miles west of **Brookshire**, Waller County, on the Missouri, Kansas & Texas Railway, 5 telegraph poles west of milepost 1045, in the northeast quarter of a grade crossing and 2 feet from the right-of-way fence. An iron pipe. (86.605 meters or 120.095 feet.)

U 7.—At **Brookshire**, Waller County, 300 meters (984 feet) west of the Missouri, Kansas & Texas Railway station, in the southwest quarter of a grade crossing and 1 foot from the right-of-way fence. A stone post with square hole in top. (49.521 meters or 162.470 feet.)

V 7.—About 3 miles east of **Brookshire**, Waller County, on the Missouri, Kansas & Texas Railway, 4 rails west of milepost 1051, in the northwest quarter of a grade crossing and 1 foot from the right-of-way fence. An iron pipe. (47.902 meters or 157.158 feet.)

W 7.—In Waller County, about 1.2 miles west of **Katy**, Harris County, on the Missouri, Kansas & Texas Railway, between the twelfth and thirteenth telegraph poles east of milepost 1054, in the northwest quarter of a grade crossing and 15 paces north of the tracks. A stone post with square hole in top. (43.811 meters or 143.737 feet.)

X 7.—At **Katy**, Harris County, 175 meters (574 feet) west and 100 meters (328 feet) south of the Missouri, Kansas & Texas Railway station, in the horizontal surface of the southwest foundation of the water tank owned by the Katy Rice Milling Co. A copper bolt. (43.085 meters or 141.355 feet.)

Y 7.—At **Katy**, Harris County, 65 meters (213 feet) east of the Missouri, Kansas & Texas Railway station, on the water tank, at the east end of the fourth concrete mudsill from the tracks, in the vertical surface. A brass disk. (48.430 meters or 142.487 feet.)

Z 7.—About 2.8 miles east of **Katy**, Harris County, on the Missouri, Kansas & Texas Railway, 15 telegraph poles east of milepost 1058, in the southeast quarter of a grade crossing and 15 meters (49 feet) south of the tracks. A stone post with square hole in top. (40.992 meters or 134.488 feet.)

A 8.—At **Burnap**, Harris County, on the Missouri, Kansas & Texas Railway, 20 meters (66 feet) west of the signboard, 35 meters (115 feet) south of the tracks and on the south side of a public highway. A stone post with square hole in top. (38.044 meters or 124.816 feet.)

B 8.—At **Barker**, Harris County, on the Missouri, Kansas & Texas Railway 20 meters (66 feet) west of the signboard, 85 meters (115 feet) south of the tracks, in the corner of a fence, on land owned by G. T. Miller. An iron pipe set in cement. (32.149 meters or 105.476 feet.)

C 8.—At **Letitia**, Harris County, 65 meters (213 feet) east of the Missouri, Kansas & Texas Railway station and 30 meters (98 feet) south of the tracks, in the corner of a fence. An iron pipe. (29.362 meters or 96.332 feet.)

D 8.—About 2.5 miles west of **Hillendahl**, Harris County, on the Missouri, Kansas & Texas Railway, halfway between the eighth and ninth telegraph poles west of milepost 1071, in the southeast quarter of a grade crossing and 15 meters (49 feet) south of the tracks. An iron pipe. (27.403 meters or 89.905 feet.)

E 8.—About 0.8 mile west of **Hillendahl**, Harris County, on the Missouri, Kansas & Texas Railway, 11 telegraph poles west of milepost 1073, in the center of the horizontal surface of a concrete culvert, 0.5 foot from the north edge. A copper bolt. (26.540 meters or 87.073 feet.)

F 8.—About 1 mile east of **Hillendahl**, Harris County, on the Missouri, Kansas & Texas Railway, halfway between the seventh and eighth telegraph poles east of milepost 1074, in the northeast quarter of a grade crossing and in line with the right-of-way fence. An iron pipe. (23.966 meters or 78.623 feet.)

G 8.—About 3 miles east of **Hillendahl**, Harris County, on the Missouri, Kansas & Texas Railway, halfway between the tenth and eleventh telegraph poles east of milepost 1076 and 35 meters (115 feet) south of the tracks, in the southeast quarter of a highway junction, on land owned by Gustav Peachman. A stone post with square hole in top. (21.894 meters or 71.831 feet.)

H 8.—At **Eureka**, Harris County, on the Missouri, Kansas & Texas Railway, 150 meters (492 feet) east of the Houston & Texas Central Railroad crossing, in the concrete foundation of a block signal. The bottom of a square hole. (20.908 meters or 68.595 feet.)

I 8.—At **Houston Heights**, Harris County, on the Missouri, Kansas & Texas Railway, halfway between the seventh and eighth telegraph poles east of milepost 1081 and 25 meters (82 feet) south of the tracks, in the parking and midway between two electric car lines. An iron pipe. (18.598 meters or 61.017 feet.)

J 8.—At **Houston**, Harris County, at the northeast corner of Willow and Baker Streets, in the concrete water table in the center of the west face of the supporting pillar at the southwest corner of the Peden Iron & Steel Co. building, and about 3 feet above the cement walk. A brass disk. (13.718 meters or 45.000 feet.)

K 8.—At **Houston**, Harris County, at the southeast corner of Franklin and Fannin Streets, in the lower stone step at the north entrance to the post office, on the horizontal surface 0.3 foot from the east end. An outlined square. (12.910 meters or 42.356 feet.)

L 8.—At **Houston**, Harris County, on Gable Street, 90 meters (295 feet) north of the Galveston, Houston & Henderson Railroad tracks, on the south abutment of the steel highway bridge over Buffalo Bayou, in the horizontal surface 10 inches from the west edge. A brass disk. (13.289 meters or 43.599 feet.)

City.—At **Houston**, Harris County, at the southeast corner of Milby Street and Harrisburg Road and 10 inches north of a telegraph pole. A bolt driven into the ground level with the curb. (13.967 meters or 45.824 feet.)

M 8.—About 3 miles east of **Houston**, Harris County, on the Galveston, Houston & Henderson Railroad, halfway between the eighth and ninth telegraph poles east of milepost 3 and 3 meters north of the track, in the center of the top surface of a concrete culvert. The bottom of a square hole. (13.210 meters or 43.339 feet.)

N 8.—About 0.8 mile north of **Harrisburg**, Harris County, on the Galveston, Houston & Henderson Railroad, halfway between the fifth and sixth telegraph poles south of milepost 5 and 8 meters east of and about 7 feet below the tracks,

in the center of the top surface of a concrete culvert. A copper bolt set in lead and lettered "U. S. B. M." (7.120 meters or 23.359 feet.)

R. M.—At Harrisburg, Harris County, on the Galveston, Houston & Henderson Railroad, 25 meters (82 feet) south of the Galveston, Harrisburg & San Antonio Railway crossing and 13 meters (43 feet) west of the tracks. A cross on top of a section of rail set vertically in the ground. (11.665 meters or 38.271 feet.)

O 8.—About 1 mile south of Harrisburg, Harris County, on the Galveston, Houston & Henderson Railroad, in line with the telegraph poles outside the right of way between the thirteenth and fourteenth poles north of milepost 7, in the southeast quarter of a grade crossing, 18 meters south of the tracks, and 5 meters south of the corner of the right-of-way fence. An iron pipe. (11.431 meters or 37.503 feet.)

M. M. 9.—About 3.2 miles southeast of Harrisburg, Harris County, on the Galveston, Houston & Henderson Railroad, 15 meters (49 feet) southeast of milepost 9 and 15 meters (49 feet) southwest of the track. A cross on top of a section of rail set vertically in the ground. (10.762 meters or 35.308 feet.)

P 8.—About 4.2 miles southeast of Harrisburg, Harris County, on the Galveston, Houston & Henderson Railroad, 35 meters (115 feet) northwest of milepost 10 and 2 meters northeast of the tracks, in the center of the horizontal surface of the north abutment of a steel and concrete bridge. A copper bolt. (11.670 meters or 38.287 feet.)

Q 8.—About 3.2 miles northwest of Genoa, Harris County, on the Galveston, Houston & Henderson Railroad, 8 meters southwest of milepost 11 and in line with the telegraph poles outside of the right-of-way fence. A stone post with square hole in top. (11.342 meters or 37.212 feet.)

M. M. 12.—About 2.2 miles northwest of Genoa, Harris County, on the Galveston, Houston & Henderson Railroad, 20 meters (66 feet) southeast of milepost 12 and 15 meters (49 feet) southwest of the tracks. A cross on top of a section of rail set vertically in the ground. (12.500 meters or 41.306 feet.)

R 8.—At Genoa, Harris County, about 55 meters (180 feet) northwest of the Galveston, Houston & Henderson Railroad station and 8 meters southwest of the tracks, in the foundation of the water tank, in the horizontal surface on the southeast side. A brass disk. (15.193 meters or 49.846 feet.)

S 8.—At Genoa, Harris County, about 75 meters (246 feet) southeast of the Galveston, Houston & Henderson Railroad station and 55 meters (180 feet) northeast of the tracks, in the corner of a fence. A stone post with square hole in top. (14.338 meters or 47.040 feet.)

M. M. 16.—About 1.8 miles southeast of Genoa, Harris County, on the Galveston, Houston & Henderson Railroad, 20 meters (66 feet) northwest of milepost 16 and 15 meters (49 feet) southwest of the tracks. A cross on top of a section of rail set vertically in the ground. (13.281 meters or 43.573 feet.)

M. M. 18.—About 3.8 miles southeast of Genoa, Harris County, on the Galveston, Houston & Henderson Railroad, 20 meters (66 feet) southeast of milepost 18 and 15 meters (49 feet) southwest of the tracks. A cross on top of a section of rail set vertically in the ground. (9.499 meters or 31.165 feet.)

T 8.—About 1 mile northwest of Webster, Harris County, on the Galveston, Houston & Henderson Railroad, near the thirteenth telegraph pole northwest of milepost 21 and 35 meters (115 feet) northeast of the tracks, 15 meters (49 feet) southwest of an artesian well, on land owned by Harvey T. D. Wilson. An iron pipe. (9.603 meters or 31.506 feet.)

U 8.—At Webster, Harris County, 100 meters (328 feet) southwest of the Galveston, Houston & Henderson Railroad station, in the corner of a fence at the east corner of a street crossing, on land owned by Harvey T. D. Wilson. A stone post with square hole in top. (8.199 meters or 26.900 feet.)

M. M. 22.—About 0.3 mile southeast of Webster, Harris County, on the Galveston, Houston & Henderson Railroad, 12 meters (39 feet) southeast of milepost 22 and 15 meters (49 feet) southwest of the tracks. A cross on top of a section of rail set vertically in the ground. (8.212 meters or 26.943 feet.)

V 8.—At League City, Galveston County, 7 meters (23 feet) southeast of the Galveston, Houston & Henderson Railroad station and 10 meters (33 feet) northeast of the tracks, on the top surface of a 7 by 8 inch stone post set in the parking. A brass disk. (7.177 meters or 23.547 feet.)

W 8.—About 2 miles southeast of League City, Galveston County, on the Galveston, Houston & Henderson Railroad, near the public highway halfway between the eleventh and twelfth telegraph poles southeast of milepost 26, in the east quarter of a grade crossing 2 feet from the corner of the right-of-way fences. An iron pipe. (6.995 meters or 22.949 feet.)

X 8.—About 0.3 mile northwest of Dickinson, Galveston County, on the Galveston, Houston & Henderson Railroad, halfway between the ninth and tenth telegraph poles southeast of milepost 28 and 6.5 meters southwest of the tracks, in the center of the top surface of a concrete culvert. A brass disk. (6.493 meters or 21.303 feet.)

Y 8.—At Dickinson, Galveston County, 5 telegraph poles southeast of the Galveston, Houston & Henderson Railroad station and 35 meters (115 feet) northeast of the tracks, in the corner of a fence in the railroad park. A stone post with square hole in top. (5.679 meters or 18.632 feet.)

Z 8.—About 0.5 mile southeast of Dickinson, Galveston County, on the Galveston, Houston & Henderson Railroad, 11 telegraph poles southeast of milepost 29 and 13 meters (43 feet) southwest of the tracks, in the southwest quarter of a grade crossing, on land owned by C. Nolan. An iron pipe. (5.894 meters or 19.337 feet.)

M. M. 32.—About 4 miles northwest of Lamarque, Galveston County, on the Galveston, Houston & Henderson Railroad, about 10 meters (33 feet) from milepost 32 and 15 meters (49 feet) southwest of the tracks. A cross on top of a section of rail set vertically in the ground. (6.356 meters or 20.853 feet.)

M. M. 34.—About 2 miles northwest of Lamarque, Galveston County, on the Galveston, Houston & Henderson Railroad, 25 meters (82 feet) southeast of milepost 34 and 15 meters (49 feet) southwest of the tracks. A cross on top of a section of rail set vertically in the ground. (5.485 meters or 17.995 feet.)

A 9.—At Lamarque, Galveston County, 40 meters (131 feet) northwest of the Galveston, Houston & Henderson Railroad station and 7.5 meters southwest of the tracks, in the concrete foundation of the water tank, in the center of the east face about 1 meter above the ground. A brass disk. (5.674 meters or 18.615 feet.)

B 9.—About 0.3 mile southeast of Lamarque, Galveston County, on the Galveston, Houston & Henderson Railroad, halfway between the twelfth and thirteenth telegraph poles southeast of milepost 36 and 35 meters (115 feet) northeast of the tracks, in the north quarter of a highway crossing, on land belonging to the Tarpey estate. An iron pipe. (5.275 meters or 17.307 feet.)

C 9.—At Texas City Junction, Galveston County, on the Galveston, Houston & Henderson Railroad, 10 telegraph poles northwest of milepost 30 and 35 meters (115 feet) southwest of the tracks, in the corner of a fence. An iron pipe. (2.585 meters or 8.481 feet.)

M. M. 41.—Near Texas City Junction, Galveston County, on the Galveston, Houston & Henderson Railroad, 25 meters (82 feet) southeast of milepost 41 and 15 meters (49 feet) southwest of the tracks. A cross on top of a section of rail set vertically in the ground. (1.319 meters or 4.327 feet.)

D 9.—At Virginia Point, Galveston County, on the Gulf, Colorado & Santa Fe Railway, 30 meters (98 feet) northwest of the trestle and 8 meters (26 feet) southwest of the tracks, in line with the telegraph poles. An iron pipe set in sand. (1.497 meters or 4.911 feet.)

E 9.—About 2.5 miles west of Galveston, Galveston County, on the Galveston, Houston & Henderson Railroad, in the southwest quarter of the first grade crossing east of the stock pens and 100 meters (328 feet) south of the tracks. A stone post with square hole in top. (0.741 meter or 2.451 feet.)

F 9.—At Galveston, Galveston County, about 1.2 miles west of the Union Depot, in the concrete foundation on the north side of the Galveston, Houston & Henderson Railroad shops, in a beveled surface, 9 meters from the east end, back of a telegraph pole. A brass disk. (2.028 meters or 6.653 feet.)

G 9.—At Galveston, Galveston County, on the Atchison, Topeka & Santa Fe Railway, at the northeast corner of B and Twenty-fifth Streets, on the west side and 5 feet from the south end of the Sealy Building, in a steel window sill, 10 inches from the south edge of the sill. An outlined square. Reported destroyed. (2.376 meters or 7.795 feet.)

City.—At Galveston, Galveston County, on Eighth Street, between Mechanic and Strand Streets, at the southeast corner of an alley and the street. The top of an arrowhead on a hydrant. (3.097 meters or 10.161 feet.)

Tidal 2.—At Galveston, Galveston County, in the pile alongside of the fixed tide staff. A horizontal mark through the center of the head of the one of two spikes nearer the staff. Reported destroyed. (1.628 meters or 5.341 feet.)

Tidal 3.—(U. S. E. B. M. A.)—At Galveston, Galveston County, in the west face of the concrete foundation wall of the cable tank, near the steps leading into the shed house. The top of a brass bolt, filed flat to produce a horizontal surface. (2.299 meters or 7.543 feet.)

Tidal 4.—At Galveston, Galveston County, in the concrete wall of the cable tank, about 6 inches above Tidal 3. A horizontal line cut in the head of a brass bolt flush with the wall. (2.451 meters or 8.041 feet.)

Tidal 5. (U. S. E.)—At Galveston, Galveston County, in the northwest bearing pile of the Fort Point Lighthouse, established by the Corps of Engineers, U. S. Army, in 1890. The top of the northeast bolt. (1.042 meters or 3.419 feet.)

Tidal 6 (U. S. E.)—At Galveston, Galveston County, about 6 feet east of the trestle bent marked "100." The top of a section of rail set vertically in the center of and nearly level with the surface of the tracks. Reported destroyed. (2.410 meters or 7.906 feet.)

Tidal 7 (U. S. E.)—At Galveston, Galveston County, about 14 feet north of the trestle bent marked "90." The top of a section of rail set vertically in the center of the tracks. Reported destroyed. (2.576 meters or 8.451 feet.)

Tidal 8 (U. S. E.)—At Galveston, Galveston County, about 28 feet north of the trestle bent marked "80." The top of a section of rail set vertically in the center of the tracks. Reported destroyed. (2.602 meters or 8.537 feet.)

Tidal 9 (U. S. E. B. M. fence line.)—At Galveston, Galveston County, between 400 and 500 feet south of the office building at Fort Point, in the center of the south jetty and immediately below the railroad trestle, directly beneath a stringer. The top of a brass bolt set in a box of concrete. Reported destroyed. (0.964 meter or 3.162 feet.)

Tidal 10 (U. S. E.)—At Galveston, Galveston County, near the trestle bent marked "60." The top of a section of rail set vertically in the center of the tracks. Reported destroyed. (2.614 meters or 8.576 feet.)

Tidal 11 (U. S. E.)—At Galveston, Galveston County, about 14 feet south of the trestle bent marked "50." The top of a section of rail set vertically in the center of the tracks. Reported destroyed. (2.490 meters or 8.169 feet.)

Tidal 12 (U. S. E.)—At Galveston, Galveston County, about 29 feet north of the trestle bent marked "40." The top of a section of rail set vertically in the center of the tracks. Reported destroyed. (2.603 meters or 8.550 feet.)

Tidal 13 (U. S. E.)—At Galveston, Galveston County, near the trestle bent marked "30," beneath a tie, a portion of which was cut away to reach the bench mark. The top of a section of rail set vertically in the center of the tracks. Reported destroyed. (2.379 meters or 7.805 feet.)

Tidal 14 (U. S. E.)—At Galveston, Galveston County, about 12 feet south of the trestle bent marked "20," partly covered by a tie. The top of a section of rail set vertically in the center of the tracks. Reported destroyed. (1.924 meters or 6.312 feet.)

Tidal 15 (U. S. E.)—At Galveston, Galveston County, about 10 feet south of the trestle bent marked "10." The top of a section of rail set vertically in the center of the tracks. Reported destroyed. (1.953 meters or 6.407 feet.)

Tidal 16.—At Galveston, Galveston County, on Ninth Street, in the northwest corner of the hospital grounds, in the concrete walk about 4 inches from the corner of the walk and about 28 inches from a telegraph pole. The top of a wire nail. Reported destroyed. (1.882 meters or 6.175 feet.)

Tidal 17.—At Galveston, Galveston County, on the corner of Ninth and Strand Streets. The highest point of the diagonal line forming the intersection of the south and west concrete walls about the hospital grounds. (2.576 meters or 8.451 feet.)

Tidal 18.—At Galveston, Galveston County, on the corner of Twentieth and Strand Streets, in the northeast corner of the Hendley Building. The concrete pavement has been raised 4 inches above the bench mark but the rod may still be placed on a corner of the water table which projects into the alley. This bench mark is the city datum. (1.733 meters or 5.686 feet.)

Tidal 19.—At Galveston, Galveston County, on the corner of Twentieth and Strand Streets, on the north side of the Hendley Building and about 1 foot from the east end, about 4 feet above Tidal 18. A small hole in the center of the head of a copper bolt flush with the wall. (2.040 meters or 6.646 feet.)

LINE IX, EL RENO, OKLA., TO JERICHO, TEX.

This is the Texas portion of a line which follows the Chicago, Rock Island & Pacific Railway from El Reno, Okla., to Jericho, Tex. The field work was done by Ford Kurtz, aid, between July 1 and September 14, 1909.

H 9.—At Benonine, Wheeler County, on the right-of-way fence line of the Chicago, Rock Island & Pacific Railway, 12 meters (39 feet) north of the center line of the main track, just even with the signboard "Benonine," opposite the gates of the stock pens. An iron pipe. (853.998 meters or 2,145.658 feet.)

I 9.—At Fuller, Wheeler County, on the right of way of the Chicago, Rock Island & Pacific Railway, 24 meters (78 feet) north of the center line of the main track, just even with the signboard "Fuller," just east of the section house, and about 0.7 meter above the track. A stone post with square hole in top. (665.989 meters or 2,184.999 feet.)

J 9.—About 3.8 miles east of Shamrock, Wheeler County, just inside the right of way of the Chicago, Rock Island & Pacific Railway, 14.2 meters (46.6 feet) north of the center line of the main track, at the northwest property corner of the highway crossing near the signboard. An iron pipe. (700.433 meters or 2,298.004 feet.)

K 9.—At Shamrock, Wheeler County, nearly opposite the west end of the Chicago, Rock Island & Pacific Railway station, 26 meters (85 feet) south of the center line of the main track, 0.3 meter above the rails. A stone post with square hole in top. (711.034 meters or 2,332.784 feet.)

L 9.—At Shamrock, Wheeler County, at the northwest corner of Main and Second Streets, 1 decimeter (4 inches) above the sidewalk, in the base stone on the east side of the First National Bank Building. A brass disk. (713.864 meters or 2,342.068 feet.)

M 9.—About 3.5 miles west of Shamrock, Wheeler County, at the top of the grade between Shamrock and Lela, on the Chicago, Rock Island & Pacific Railway, halfway between the first and second telegraph poles west of milepost 688, 14.8 meters (47 feet) south of the center line of the main track near the line fence between the railroad right of way and an east-and-west highway. An iron pipe. (730.020 meters or 2,395.074 feet.)

N 9.—At Lela (formerly Story), Wheeler County, 72 meters (236 feet) west of the Chicago, Rock Island & Pacific Railway station, 12.2 meters (40 feet) north of the center line of the main track, and just west of the crossing signboard. A stone post with square hole in top. (785.617 meters or 2,413.436 feet.)

O 9.—About 8.1 miles northeast of Ramsdell, Wheeler County, just inside the right of way of the Chicago, Rock Island & Pacific Railway, on a small ridge near an abandoned road crossing, 2 telegraph poles northeast of milepost 673-20, and 14 meters (46 feet) northwest of the center line of the main track. An iron pipe. (759.674 meters or 2,492.364 feet.)

P 9.—At Ramsdell, Wheeler County, inside the right of way of the Chicago, Rock Island & Pacific Railway, in line with the east highway fence at the road crossing, 134 meters (440 feet) east of the ticket office in the railroad station, and 30 meters (98 feet) north of the center line of the main track. A stone post with square hole in top. (780.015 meters or 2,559.099 feet.)

Q 9.—At Ramsdell, Wheeler County, on the west end of the concrete foundation of the Chicago, Rock Island & Pacific Railway station, 0.3 meter below the top and 0.6 meter from the northwest corner. A brass disk. (781.796 meters or 2,564.948 feet.)

R 9.—About 6 miles west of Ramsdell, Wheeler County, 2 telegraph poles east of milepost 682-25, on the Chicago, Rock Island & Pacific Railway, 13.3 meters (44 feet) south of the center line of the main track, and about 0.25 meter east of the Wheeler-Gray County fence line. An iron pipe. (833.257 meters or 2,733.777 feet.)

S 9.—At McLean, Gray County, on the east wall of the concrete foundation of the Chicago, Rock Island & Pacific Railway station, 0.3 meter below the top and 0.2 meter from the northeast corner. A brass disk. (871.344 meters or 2,858.734 feet.)

T 9.—At McLean, Gray County, at the northeast corner of Main and First Streets, on the building occupied by the Citizens State Bank of McLean. It

is to the left of the entrance on the southwest corner, 1.4 meters above the sidewalk. A brass disk. (873.240 meters or 2,864.985 feet.)

U 9.—About 3.9 miles southwest of **McLean**, Gray County, inside the right of way at the southwest end of a cut on a curve on the Chicago, Rock Island & Pacific Railway, halfway between the second and third telegraph poles southwest of milepost 691, 14.3 meters (47 feet) northwest of the center line of the main track. An iron pipe. (902.748 meters or 2,961.765 feet.)

V 9.—About 1.5 miles northeast of **Alanreed**, Gray County, just outside the right of way at the south end of a cut on the Chicago, Rock Island & Pacific Railway, 2 telegraph poles north of milepost 694-15, 16 meters (52 feet) east of the center line of the main track, and to the west of the highway. An iron pipe. (916.951 meters or 3,008.363 feet.)

W 9.—At **Alanreed**, Gray County, 21.2 meters (70 feet) south of a point on the center line of the main track of the Chicago, Rock Island & Pacific Railway, which is 10.7 meters (35 feet) east of the railroad station, 1.2 meters above the main tracks, and just north of the highway. A stone post with square hole in top. (928.571 meters or 3,046.487 feet.)

X 9.—At **Alanreed**, Gray County, at the northwest corner of Main Street and Second Avenue, on the brick building occupied by the Bank of Alanreed. It is on the southwest corner of the building, to the left of the entrance, and 0.3 meter above the sidewalk. A brass disk. (922.767 meters or 3,027.445 feet.)

Y 9.—About 3 miles southwest of **Alanreed**, Gray County, at the north end of the curve in the cut on the Chicago, Rock Island & Pacific Railway, halfway to the first pole north of milepost 690, 15 meters (49 feet) west of the center line of the main track, and just east of the public highway, which follows the divide. An iron pipe. (946.118 meters or 3,104.055 feet.)

Z 9.—At **Rockledge**, Donley County, 60 meters (197 feet) south of the center line of the main track of the Chicago, Rock Island & Pacific Railway, even with and across the tracks from the signboard "Rockledge," at the north fence line of the highway which follows the divide. An iron pipe. (965.480 meters or 3,167.570 feet.)

A 10.—About 3.5 miles east of **Jericho**, Donley County, just outside the right of way near the west end of the curve at the top of the grade on the Chicago, Rock Island & Pacific Railway, 1 telegraph pole east of milepost 704-15, 15 meters (49 feet) south of the center line of the main track, and about 40 meters (131 feet) north of the highway which follows the divide. An iron pipe. (967.194 meters or 3,173.203 feet.)

B 10.—At **Jericho**, Donley County, on the right of way property line of the Chicago, Rock Island & Pacific Railway, 60 meters (197 feet) west of the railroad station, 20.7 meters (67 feet) south of the center line of the main track. A stone post with square hole in top. (976.066 meters or 3,202.310 feet.)

LINE X, FORT WORTH TO EL PASO, TEX.

This line follows the Texas & Pacific Railway from Fort Worth to Sierra Blanca, Tex., and the Galveston, Harrisburg & San Antonio Railway (Southern Pacific Co.) from Sierra Blanca to El Paso, Tex. The field work was done by C. M. Cade, assistant, between April 4, 1910, and January 10, 1911.

For additional bench marks at Fort Worth see pages 23, 24, 27, and 46.

C 10.—At **Fort Worth**, Tarrant County, on Hill Street concrete viaduct, over the Texas & Pacific and the St. Louis-San Francisco Railway tracks, 1.1 miles west of the Union passenger station, on the east face of the north side of the arch over the main-line track of the Texas & Pacific Railway, about 5 feet above the ground and 1 foot from the south edge of the face of the arch. A brass disk. Disk reported removed in 1920. (190.315 meters or 624.392 feet.)

D 10.—About 2.1 miles west of **Fort Worth**, Tarrant County, on the highway bridge carrying the Fort Worth and Weatherford road over the Clear Fork of the Trinity River, on the top of the south wing wall of the east concrete abutment, about 0.2 meter from the footplate of the truss. This bridge is about 35 meters (115 feet) north of the Texas & Pacific Railway bridge 249A over the same stream. A brass disk. (169.854 meters or 557.262 feet.)

E 10.—About 4.5 miles west of Fort Worth, Tarrant County, and midway between the Texas & Pacific Railway track and the center of the Fort Worth and Weatherford highway, 0.5 meter inside and south of the railroad's right-of-way fence and 1.5 meters inside and east of the fence of the first byroad that crosses the track west of the siding for the Fort Worth waterworks pumping station. An iron pipe. (175.614 meters or 576.160 feet.)

F 10.—About 1.4 miles east of Benbrook, Tarrant County, on the middle pier of the Texas & Pacific Railway plate-girder bridge No. 254C over Marys Creek, on the top of the coping of the north end of the pier, and approximately in the center of the stone. The bottom of a square hole. (189.979 meters or 623.290 feet.)

G 10.—At Benbrook, Tarrant County, on land belonging to C. W. Carpenter, at the turn of the Fort Worth and Weatherford highway, just across the road and south of the Texas & Pacific Railway stock pens, about 50 meters (164 feet) south of the main-line track, and 2.5 feet south and 2.5 feet west of the highway fence. A stone post with square hole in top. (201.982 meters or 662.669 feet.)

H 10.—About 2.8 miles west of Benbrook, Tarrant County, on the Texas & Pacific Railway plate-girder bridge No. 258B over Walnut Creek, on the top of the north end of the east masonry abutment. A brass disk. (239.965 meters or 787.285 feet.)

I 10.—At Iona, Parker County, about 130 meters (427 feet) west of the section house of the Texas & Pacific Railway, 15 meters (49 feet) south of the west end of the siding, and 1 meter north of the fence between the railroad right of way and the county road. An iron pipe. (298.797 meters or 980.303 feet.)

J 10.—At Aledo, Parker County, on land belonging to J. J. Sears and in use as a public park, about midway of the south side of the park, and 1 meter north of the boundary fence. A stone post with square hole in top. (270.678 meters or 888.049 feet.)

K 10.—At Aledo, Parker County, on the west side of the entrance of the stone building owned by J. J. Sears, and occupied by his general merchandise store, and 2 meters above the sidewalk. A brass disk. (271.892 meters or 892.032 feet.)

L 10.—About 1.7 miles west of Aledo, Parker County, on the Texas & Pacific Railway bridge No. 266C over Clear Creek, on top of the highest course of the east masonry abutment, and in line with the west girder. A copper bolt. (245.637 meters or 805.894 feet.)

M 10.—About 2.8 miles west of Aledo, Parker County, on the Texas & Pacific Railway bridge No. 267C over the Clear Fork of the Trinity River, on the top of the eastern abutment, and in line with the south girder. The bottom of a square hole. (249.345 meters or 818.059 feet.)

N 10.—About 0.4 mile west of Annetta, Parker County, on the Texas & Pacific Railway bridge No. 270B over Burgess Creek, on the stone coping, at the northern end of the eastern abutment, and on a level with the bottom of the girder. The bottom of a square hole. (261.192 meters or 856.927 feet.)

O 10.—About 0.5 mile east of Earls, Parker County, on the Texas & Pacific Railway bridge No. 273A over the Clear Fork of the Trinity River on top of the northern end of the western abutment. The bottom of a square hole. (274.745 meters or 901.392 feet.)

P 10.—At Earls, Parker County, on the Texas & Pacific Railway right of way, midway of a switch, and 1 meter north of the south fence. An iron pipe. (276.192 meters or 906.140 feet.)

Q 10.—About 2.5 miles east of Weatherford, Parker County, on the Texas & Pacific Railway bridge No. 275B over the Clear Fork of the Trinity River, on the south end of the east abutment, 0.2 meter from the corner of the stone, and 6 meters from the center of the track. A copper bolt. (285.976 meters or 938.240 feet.)

R 10.—At Weatherford, Parker County, on the Texas & Pacific Railway, 0.6 mile east of the depot, on bridge No. 277C over the Clear Fork of the Trinity River, 0.2 meter north of the south end of the east masonry pier, 1 meter below the rail, and 3 meters from the center of the track. A copper bolt. (301.666 meters or 989.716 feet.)

S 10.—At Weatherford, Parker County, on Parker County Courthouse, 1.1 meters south of the northeast cornerstone, 1 meter from the ground. A brass disk. Probably destroyed in rebuilding the courthouse. (320.789 meters or 1,052.456 feet.)

T 10.—At Weatherford, Parker County, in the northwest corner of the Texas & Pacific Railway park, 11 meters (36 feet) from the center of the main-line track, and 16 meters (52 feet) east of the northeast corner of the depot. A stone post with square hole in top. (308.128 meters or 1,010.917 feet.)

U 10.—About 1.4 miles west of Weatherford, Parker County, on the Texas & Pacific Railway bridge No. 270A over the Clear Fork of the Trinity River, on top of the north end of the east masonry pier, 0.85 meter from the center of the north girder, and 1 meter below the rail. A copper bolt. (319.776 meters or 1,049.131 feet.)

V 10.—About 3 miles west of Weatherford, Parker County, at the crossing of the Texas & Pacific Railway and the Weatherford-Mineral Wells county road, west of the road, and on the north line of the railroad right of way. An iron pipe. (347.342 meters or 1,139.571 feet.)

W 10.—At Lambert, Parker County, in the southwest corner of the section-house yard, on the Texas & Pacific Railway property, north of the track, and east of the main road crossing. An iron pipe. (353.079 meters or 1,158.393 feet.)

X 10.—About 4 miles east of Millsap, Parker County, on the Texas & Pacific Railway right of way, 12 meters (39 feet) north of the track, and 2 meters west of the west fence of the road that crosses the track at this point. An iron pipe. (295.369 meters or 969.056 feet.)

Y 10.—At Millsap, Parker County, on the Texas & Pacific Railway right of way, south of the track, west of the main road that crosses the track west of the depot, and 1 meter from the railroad fence. A stone post with square hole in top. (250.534 meters or 821.960 feet.)

Z 10.—About 2.5 miles west of Millsap, Parker County, on the Texas & Pacific Railway bridge No. 294B over Rock Creek, on the west concrete abutment, 0.3 meter below the rail, and 1.5 meter north of the center of the track. A copper bolt. (229.805 meters or 753.952 feet.)

A 11.—At Bennetts, Parker County, 13 meters (43 feet) south of the Texas & Pacific Railway main-line track at the station. A stone post with square hole in top. (229.659 meters or 753.473 feet.)

B 11.—About 1.5 miles east of Brazos, Palo Pinto County, on the Texas & Pacific Railway right of way, 19 meters (62 feet) west of bridge No. 300A, 1 meter north of the south fence and 1 meter west of the west fence of the road that crosses the track at this point. An iron pipe. (248.068 meters or 813.870 feet.)

C 11.—About 0.7 mile east of Brazos, Palo Pinto County, on the Texas & Pacific Railway bridge No. 301A, on the south end of the east abutment wall, 0.2 meter below the rail. A copper bolt. (238.862 meters or 783.667 feet.)

D 11.—At Brazos, Palo Pinto County, in front of the depot, 1 meter south of the north fence, on the Texas & Pacific Railway right of way. An iron pipe. (246.326 meters or 808.155 feet.)

E 11.—About 3 miles east of Santo, Palo Pinto County, on the Texas & Pacific Railway bridge No. 305B over Palo Pinto Creek, on the north end of the west abutment, 0.2 meter north of the northwest corner of the footplate of the truss. A copper bolt. (239.974 meters or 787.315 feet.)

F 11.—About 0.7 mile east of Santo, Palo Pinto County, on the Texas & Pacific Railway bridge No. 308A over Sunday Creek, on top of the north end of the east abutment, 1.6 meters below the rail at the end of the truss. A copper bolt. (245.331 meters or 804.989 feet.)

G 11.—At Santo, Palo Pinto County, on the north side of the main-line track of the Texas & Pacific Railway, 90 meters (295 feet) west of the depot and 1 meter from the corner of the right-of-way fence. A stone post with square hole in top. (250.686 meters or 822.459 feet.)

H 11.—About 3.9 miles east of Santo, Palo Pinto County, on the Texas & Pacific Railway right of way, 142 meters (465 feet) west of a siding and 1 meter south of the fence between the railroad and the county road. An iron pipe. (268.527 meters or 880.993 feet.)

I 11.—At Judd, Palo Pinto County, on the Texas & Pacific Railway right of way, 1 meter south of the fence between the right of way and the county road and about 15 meters (49 feet) east of the station. An iron pipe. (278.574 meters or 913.955 feet.)

J 11.—About 1.9 miles east of Gordon, Palo Pinto County, on the Texas & Pacific Railway bridge No. 317E over Bartons Creek, on top of the coping stone on the south end of the west abutment, 4.3 meters from the center of the track and 0.8 meter below the rail. A copper bolt. (284.829 meters or 934.476 feet.)

K 11.—At **Gordon**, Palo Pinto County, 38 meters (125 feet) east of the center of the Texas & Pacific Railway depot, on the east line of Locust Street. A stone post with square hole in top. (294.819 meters or 967.252 feet.)

L 11.—About 1 mile east of **Mingus**, Palo Pinto County, north of the main line track of the Texas & Pacific Railway and 1 meter south of the right-of-way fence. A stone post with square hole in top. (291.388 meters or 955.996 feet.)

M 11.—At **Mingus**, Palo Pinto County, on the east face of the concrete water table of the center pillar supporting the porch roof of the Texas & Pacific Railway depot and 3 feet from the ground. A brass disk. (202.031 meters or 958.105 feet.)

N 11.—About 1.4 miles west of **Mingus**, Palo Pinto County, on the Texas & Pacific Railway bridge No. 324A over the South Fork of Palo Pinto Creek, on the north end of the east abutment 3.5 meters from the center of the track and 1 meter below the rail. A copper bolt. (290.617 meters or 953.466 feet.)

O 11.—At **Strawn**, Palo Pinto County, on the north side of the Texas & Pacific Railway track in line with the telegraph poles, 530 meters (1,739 feet) east of the depot and 1 meter east of the fence to the cattle guard. An iron pipe. (303.560 meters or 995.930 feet.)

P 11.—At **Strawn**, Palo Pinto County, on the north side of the Texas & Pacific Railway track, 304 meters (1,293 feet) west of the depot, 7 meters west of a pile culvert and 1 meter from the right-of-way fence. A stone post with square hole in top. (304.030 meters or 997.472 feet.)

Q 11.—About 2.3 miles west of **Strawn**, Palo Pinto County, on the northeast corner of the southeast concrete footing of the Texas & Pacific Railway water tank. The bottom of a square hole. (317.522 meters or 1,041.737 feet.)

R 11.—About 4.1 miles west of **Strawn**, Palo Pinto County, on the Texas & Pacific Railway bridge No. 331A on top of the east abutment in the center of the track and 1 meter below the rail. A copper bolt. (328.052 meters or 1,076.284 feet.)

S 11.—About 0.9 mile east of **Wiles**, Stephens County, on the Texas & Pacific Railway bridge No. 333D, on top of the south end of the east abutment. A copper bolt. (344.531 meters or 1,130.349 feet.)

T 11.—At **Wiles**, Stephens County, north of the track at the Texas & Pacific Railway station, on the right of way, 1 meter from the north fence. An iron pipe. (354.284 meters or 1,162.347 feet.)

U 11.—About 0.7 mile west of **Wiles**, Stephens County, on the Texas & Pacific Railway bridge No. 335A over the North Fork of Palo Pinto Creek, on the north end of the west abutment, 0.1 meter from the west end of the abutment, 0.65 meter from the north side of the abutment, and 1.6 meters below the rail. A copper bolt. (361.966 meters or 1,187.550 feet.)

V 11.—About 2 miles east of **Tiffin**, Eastland County, on the Texas & Pacific Railway bridge No. 337D over the canyon of the North Fork of Palo Pinto Creek, on top of the coping of the fourth stone pier from the west end, 0.2 meter from the south end, and 0.57 meter from the west side of the pier, 2 meters from the center of the track, and 2.1 meters below the rail. The bottom of a square hole. (400.667 meters or 1,314.522 feet.)

W 11.—At **Tiffin**, Eastland County, west of the main line of the Texas & Pacific Railway, 2 meters east of the right-of-way fence. An iron pipe. (426.448 meters or 1,399.105 feet.)

X 11.—At **Ranger**, Eastland County, 5.58 meters (19 feet) northeast of the Texas & Pacific Railway depot, west of the main-line track, 2 meters from the right-of-way fence. A stone post with square hole in top. (441.791 meters or 1,449.443 feet.)

Y 11.—At **Ranger**, Eastland County, on the Texas & Pacific Railway depot, about 3 meters north of the southeast corner of the building and 1.3 meters above the ground. A brass disk. (440.123 meters or 1,443.970 feet.)

Z 11.—About 1 mile west of **Ranger**, Eastland County, on the Texas & Pacific Railway, 15 meters (49 feet) west of the center of the main-line track and 2 meters from the county-road fence. An iron pipe. (446.498 meters or 1,464.886 feet.)

A 12.—About 4.2 miles west of **Ranger**, Eastland County, 90 meters (295 feet) west of the Texas & Pacific Railway culvert No. 346A, 12 meters (39 feet) west of the center of the main track and in line with the right-of-way fence. An iron pipe. (446.947 meters or 1,466.359 feet.)

B 12.—At **Olden**, Eastland County, on the Texas & Pacific Railway right of way, west of the road crossing at the west end of the switch on the north side of the main line, 6 meters (20 feet) from the center of the track and 3 meters west of the cattle guard. An iron pipe. (476.087 meters or 1,561.962 feet.)

C 12.—About 2 miles east of Eastland, Eastland County, on the west side of a public highway, 7 meters south of the main line of the Texas & Pacific Railway and 1 meter east of the western cattle guard. An iron pipe. (455.250 meters or 1,493.599 feet.)

D 12.—At Eastland, Eastland County, at the west end of the old depot in the city park north of the Texas & Pacific Railway, 33 meters (108 feet) from the main road at the east side of the park, 46 meters (151 feet) from the main track, and 1 meter from the south fence of the park. A stone post with square hole in top. (435.950 meters or 1,430.279 feet.)

E 12.—About 2.6 miles west of Eastland, Eastland County, north of the main-line track of the Texas & Pacific Railway, on the right of way, 16 meters (52 feet) east of bridge No. 354D, and 1 meter from the fence. An iron pipe. (446.315 meters or 1,464.285 feet.)

F 12.—At Lem, Eastland County, 16 meters (52 feet) north of the main line of the Texas & Pacific Railway at the station. An iron pipe. (458.234 meters or 1,503.389 feet.)

G 12.—At Cisco, Eastland County, on the masonry between the doors of the Cisco Banking Co.'s bank building, 20 inches above the sidewalk, and 12 inches south of the north door. A copper bolt. (495.940 meters or 1,627.096 feet.)

H 12.—At Cisco, Eastland County, at the north end of the park east of the station, west of the Texas Central Railroad, and south of the Texas & Pacific Railway. A stone post with square hole in top. (493.725 meters or 1,619.829 feet.)

I 12.—About 4.4 miles west of Cisco, Eastland County, on the Texas & Pacific Railway, 10 meters (33 feet) west of bridge No. 366A over a byroad, 14 meters (46 feet) south of the center of the track and in line with the right-of-way fence. An iron pipe. (504,774 meters or 1,656.079 feet.)

Lamb (triangulation station).—About 2 miles east of Dothan, Eastland County, 2 miles south and 5 miles west of Cisco, 1 mile south of the old base line public road, on one of the highest points of an extensive plateau. It is on the property of J. J. Livingston in a grove of low oak trees just to the east of a north-and-south road. The south gable of J. F. Lamb's house is distant about 120 meters (394 feet), and the east chimney of Livingston's house 78 meters (256 feet). The point of a 40-penny nail projecting $\frac{1}{4}$ inch above the concrete that fills an iron pipe $1\frac{1}{2}$ inches in diameter, which in turn is embedded in a cylinder of concrete 20 inches in diameter. (534.703 meters or 1,754.282 feet.)

Lamb (triangulation station, reference mark).—About 2 miles east of Dothan, Eastland County, 2 miles south and 5 miles west of Cisco, 1 mile south of the old base line public road, on one of the highest points of an extensive plateau, on the property of J. J. Livingston, in a grove of low oak trees 0.4 meter (1.3 feet) east of the fence line on the east side of a north-and-south road, and 21.1 meters (69.2 feet) from triangulation station Lamb, which is a 40-penny nail set in concrete about 120 meters (394 feet) from the south gable of J. F. Lamb's house and 78 meters (256 feet) from the east chimney of Livingston's house. The reference mark is the point of a 40-penny nail projecting $\frac{1}{4}$ inch above the concrete that fills an iron pipe 1.5 inches in diameter, which in turn is embedded in a cylinder of concrete 12 inches in diameter. (534.578 meters or 1,753.802 feet.)

J 12.—At Dothan, Eastland County, 180 meters (591 feet) west of the depot on the north side of the Texas & Pacific Railway track, and 1 meter from the fence between the right of way and the county road. A stone post with square hole in top. (493.305 meters or 1,618.451 feet.)

K 12.—About 3.3 miles east of Putnam, Callahan County, on the Texas & Pacific Railway right of way, 15 meters (49 feet) north of the center of the track on the east side of the county road that crosses the track at this point. An iron pipe. (478.727 meters or 1,570.623 feet.)

L 12.—At Putnam, Callahan County, 3 meters (10 feet) from the southwest corner of the square containing the mineral wells of the Putnam Mineral Water Co., 40 meters (151 feet) from the main line of the Texas & Pacific Railway, and 27 meters (89 feet) from southeast corner of the Farmers' State Bank Building. A stone post with square hole in top. (488.631 meters or 1,603.117 feet.)

M 12.—At Putnam, Callahan County, on the Farmers' State Bank, 1.7 meters west of the southeast corner, and 0.55 meter above the sidewalk. A copper bolt. (490.095 meters or 1,607.920 feet.)

N 12.—About 2.5 miles west of Putnam, Callahan County, on the Texas & Pacific Railway right of way, 15 meters (49 feet) south from the center of the

track, and west of the county road that crosses the track at this point. An iron pipe. (459.069 meters or 1,508.129 feet.)

O 12.—At Chautauqua, Callahan County, on the Texas & Pacific Railway right of way, 19 meters (62 feet) south of the center of the main-line track at the station, and 1 meter from the fence. A stone post with square hole in top. (405.011 meters or 1,328.624 feet.)

P 12.—About 2.9 miles west of Chautauqua, Callahan County, on the Texas & Pacific Railway bridge No. 384A, over Mexia Creek, 0.2 meter from the north end and 0.2 meter from the east side of the east abutment. The bottom of a square hole. (485.215 meters or 1,591.910 feet.)

Q 12.—About 1.8 miles east of Baird, Callahan County, on the Texas & Pacific Railway bridge No. 385A, over Mexia Creek, on top of the north end of the east abutment. A copper bolt. (497.437 meters or 1,632.008 feet.)

R 12.—At Baird, Callahan County, near the southwest corner of the station park east of the depot. A stone post with square hole in top. (523.822 meters or 1,718.573 feet.)

S 12.—At Baird, Callahan County, on the south face of the southeast corner stone of the Callahan County Courthouse, 3 feet from the ground. A brass disk. (525.736 meters or 1,724.852 feet.)

T 12.—About 3 miles west of Baird, Callahan County, on the Texas & Pacific Railway right of way, 9 meters north of the track, 2 meters east of the line fence running north, and 18 meters (59 feet) from a double oak tree in the county road. An iron pipe. (590.226 meters or 1,938.625 feet.)

U 12.—At Clyde, Callahan County, on the Texas & Pacific Railway right of way, 15 meters (49 feet) north of the center of the track, and 97 meters (318 feet) east of the depot. A stone post with square hole in top. (605.854 meters or 1,987.050 feet.)

V 12.—About 3 miles west of Clyde, Callahan County, 11 meters (36 feet) south of the center of the Texas & Pacific Railway track, and just west of the county road that crosses the track at this point. An iron pipe. (612.299 meters or 2,008.852 feet.)

W 12.—At Elmdale, Taylor County, 15 meters (49 feet) north of the center of the Texas & Pacific Railway track, on the west line of the county road running north, and 1 meter from the right-of-way fence. A stone post with square hole in top. (543.403 meters or 1,782.815 feet.)

X 12.—At Abilene, Taylor County, on the south end of the east abutment of the overhead crossing of the Texas & Pacific Railway over the Wichita Valley Railway, 36 meters (118 feet) from the center of the track, and 1 meter below the rail. A copper bolt. (522.001 meters or 1,712.598 feet.)

Y 12.—At Abilene, Taylor County, near the southwest corner of the south steps of the United States Weather Bureau building. A stone post with square hole in top. (525.969 meters or 1,725.617 feet.)

Z 12.—At Abilene, Taylor County, on the main building of Christian College, on the top course of stone of the masonry of the porch, east of the steps, and 0.87 meter above the ground. A copper bolt. (525.690 meters or 1,724.702 feet.)

A 13.—At Abilene, Taylor County, 1.1 miles west of the Texas & Pacific Railway depot, 12 meters (39 feet) south of the track. An iron pipe. (524.107 meters or 1,719.508 feet.)

B 13.—About 5 miles west of Abilene, Taylor County, north of the Texas & Pacific Railway track and west of the county road that crosses the railroad at this point. An iron pipe. (525.118 meters or 1,722.825 feet.)

C 13.—At Tye, Taylor County, on the Texas & Pacific Railway in the northeast corner of the yard of the section foreman's house, 8 meters (26 feet) south of the center of the main-line track. A stone post with square hole in top. (548.452 meters or 1,799.380 feet.)

D 13.—At Tye, Taylor County, 225 meters (738 feet) west of the Texas & Pacific Railway depot, 14 meters (46 feet) north of the track and just west of a road which crosses the track. An iron pipe. (546.965 meters or 1,794.501 feet.)

E 13.—About 4.2 miles east of Merkel, Taylor County, on the Texas & Pacific Railway, at milepost 419, in the county road, 2 meters from the north right-of-way fence. An iron pipe. (541.447 meters or 1,776.397 feet.)

F 13.—At Merkel, Taylor County, on top of the southwest side of the circular concrete foundation of the Texas & Pacific Railway water-filtering tower, and about 6 inches above the ground. A copper bolt. (570.120 meters or 1,870.469 feet.)

G 13.—At Merkel, Taylor County, at the northeast corner of Front and Kent Streets, on the south face of the corner stone at the southwest corner of a stone building belonging to Dr. Adkissen, and 1.3 meters above the sidewalk. A copper bolt. (571.580 meters or 1,875.259 feet.)

H 13.—At Merkel, Taylor County, in front of the section foreman's house, 10 meters (33 feet) north of the main line of the Texas & Pacific Railway and just west of a road that crosses the track. A stone post with square hole in top. (570.503 meters or 1,871.735 feet.)

I 13.—About 2.5 miles west of Merkel, Taylor County, on the Texas & Pacific Railway right of way, 14 meters (46 feet) north of the center of the track, 85 meters (279 feet) east of milepost 426, just west of a by-road crossing, and 2 meters from the fence of a county road paralleling the railroad. An iron pipe. (566.941 meters or 1,860.039 feet.)

J 13.—At Trent, Taylor County, on the Texas & Pacific Railway right of way, 33 meters (108 feet) west of the center of the depot, 14 meters (46 feet) north of the main-line track, and on the west line of the main street of the town. A stone post with square hole in top. (583.651 meters or 1,914.861 feet.)

K 13.—At Trent, Taylor County, 62 meters (203 feet) west of the Texas & Pacific Railway depot, 1 meter outside the right-of-way fence at milepost 430, alongside the county road. An iron pipe. (584.550 meters or 1,917.810 feet.)

L 13.—About 4 miles east of Eskota, Fisher County, on the Texas & Pacific Railway right of way, south of the track at milepost 434 and 1 meter from the county-road fence. An iron pipe. (595.834 meters or 1,954.832 feet.)

M 13.—At Eskota, Fisher County, on the Texas & Pacific Railway right of way, 349 meters (1,145 feet) west of the depot, 12 meters (39 feet) north of the track, and just inside the county-road fence. A stone post with square hole in top. (590.784 meters or 1,938.264 feet.)

N 13.—About 4.0 miles east of Sweetwater, Nolan County, on the Texas & Pacific Railway bridge No. 443C over Sweetwater Creek, on the south end of the east abutment at the level of the bridge seat, 1.5 meters below the rail, and 3.3 meters from the center of the track. A copper bolt. (607.414 meters or 1,992.824 feet.)

O 13.—About 4 miles east of Sweetwater, Nolan County, on the east face of the west abutment of the Gulf, Colorado & Santa Fe Railway bridge over Sweetwater Creek near the overhead crossing of the Texas & Pacific Railway, 1.3 meters above the ground and 0.5 meter from the south end of the abutment. A brass disk. (609.881 meters or 2,000.918 feet.)

P 13.—At Sweetwater, Nolan County, in the southwest corner of the yard of the Nolan County Courthouse, 32.8 meters (107 feet) from the southwest corner of the courthouse, and 4 paces from each of two trees in the southwest corner of the yard. A stone post with square hole in top. (603.299 meters or 2,176.174 feet.)

Q 13.—At Sweetwater, Nolan County, on the west abutment of the overhead crossing of the Texas & Pacific Railway over the Kansas City, Mexico & Orient Railroad, 0.8 meter from the south end of the abutment, 3.4 meters from the center of the Texas & Pacific Railway track, and 1 meter below the rail. A copper bolt. (662.839 meters or 2,174.664 feet.)

R 13.—About 3.6 miles west of Sweetwater, Nolan County, on the Texas & Pacific Railway right of way, at the top of the first long, steep grade west of Sweetwater, and 12 meters (39 feet) south of the center of the track. An iron pipe. (719.923 meters or 2,361.947 feet.)

S 13.—At Roscoe, Nolan County, 125 meters (410 feet) northwest of the Texas & Pacific Railway depot, 1 block east of the Roscoe-Snyder road, 1 meter east of the east line of a street running north and south, and 0.4 meter from the north end of the street. A stone post with square hole in top. (727.300 meters or 2,386.150 feet.)

T 13.—At Roscoe, Nolan County, at the northeast corner of First and Cypress Streets, 2 blocks west and 1 block south of the Texas & Pacific Railway depot, on the west side of Lipscomb & Davis's store, 1.8 meters from the southwest corner, and 0.4 meter above the sidewalk. A copper bolt. (727.413 meters or 2,386.521 feet.)

Patterson (triangulation station).—About 4 miles north of Roscoe, Nolan County, on the farm of A. A. Patterson, who lives 0.8 mile north of the bench mark. It is 9.8 meters to the north edge of the main east-and-west road, 700 meters (2,297 feet) east of the southwest corner of Patterson's property and between two of his tenant houses. The point of a 40-penny nail projecting $\frac{1}{4}$ inch above the concrete that fills an iron pipe $1\frac{1}{2}$ inches in diameter, which in turn

is embedded in a cylinder of concrete 20 inches in diameter. (726.544 meters or 2,383.870 feet.)

U 13.—About 8 miles west of Roscoe, Nolan County, on the Texas & Pacific Railway right of way, 12 meters (39 feet) south of the track at milepost 459, and 1 meter from the fence of the county road paralleling the track. An iron pipe. (726.387 meters or 2,383.154 feet.)

V 13.—About 1 mile east of Loraine, Mitchell County, on the Texas & Pacific Railway right of way, 75 meters (246 feet) west of the first culvert out of Loraine, 13 meters (43 feet) north of the center of the track, and 1 meter from the fence. An iron pipe. (704.033 meters or 2,309.815 feet.)

W 13.—At Loraine, Mitchell County, on the Texas & Pacific Railway right of way, 144 meters (472 feet) west of the depot, 14 meters (46 feet) north of the center of the track, and 2 meters from the corner of the fence for the cattle guard. A stone post with square hole in top. (690.112 meters or 2,264.142 feet.)

X 13.—At Loraine, Mitchell County, on the Texas & Pacific Railway right of way, at the third telegraph pole west of milepost 467, 0.5 mile west of the depot, 10 meters (33 feet) south of the track and just west of a road crossing. An iron pipe. (688.176 meters or 2,257.791 feet.)

Y 13.—About 3.5 miles east of Colorado, Mitchell County, on the Texas & Pacific Railway right of way, 11 meters (36 feet) east of the sixth telegraph pole west of milepost 472, just east of a road crossing, and 10 meters (33 feet) north of the center of the track. An iron pipe. (675.693 meters or 2,216.833 feet.)

Z 13.—At Colorado, Mitchell County, 135 meters (443 feet) east of the dwelling house of the Texas & Pacific Railway section foreman, on top of the south retaining wall of a reinforced concrete culvert over a dry ravine, 1 meter from the west end of the wall, 6 meters from the center of the track, and 0.4 meter below the rail. An outlined square. (630.225 meters or 2,067.663 feet.)

A 14.—At Colorado, Mitchell County, in the northeast corner of the yard of the Mitchell County Courthouse; 5.2 meters from the northeast corner of the courthouse, 1.3 meters west and 1.8 meters south of the inside of a cement walk, and 1.7 meters from a poplar tree in the yard. A stone post with square hole in top. (631.413 meters or 2,071.561 feet.)

B 14.—At Colorado, Mitchell County, on the Texas & Pacific Railway bridge, No. 476D over the Colorado River, on top of the concrete pier at the east end of the truss, 0.4 meter from the west end of the pier, in the center of the track, and 0.4 meter below the rail. An outlined square. (630.965 meters or 2,070.091 feet.)

C 14.—About 4.5 miles east of Westbrook, Mitchell County, on the Texas & Pacific Railway right of way, near the fifth telegraph pole east of milepost 481, 14 meters (46 feet) north of the center of the track and 1 meter from the fence. An iron pipe. (636.437 meters or 2,088.043 feet.)

D 14.—At Westbrook, Mitchell County, at the center of the east end of the Texas & Pacific Railway depot, 0.8 meter from the building. A stone post with square hole in top. (650.509 meters or 2,134.212 feet.)

E 14.—About 4.6 miles west of Westbrook, Mitchell County, on the Texas & Pacific Railway right of way at milepost 490, 13 meters (43 feet) north of the center of the track and 1 meter from the fence between the right of way and the county road. An iron pipe. (676.730 meters or 2,220.239 feet.)

F 14.—At Iatan, Mitchell County, 9 meters (30 feet) east of the depot on the Texas & Pacific Railway right of way, 7 meters south of the center of the main-line track, and 4.3 meters N. 15° E. of a large cottonwood tree. A stone post with square hole in top. (673.961 meters or 2,211.154 feet.)

G 14.—About 2.7 miles west of Iatan, Mitchell County, on the Texas & Pacific Railway right of way, halfway between the seventh and eighth telegraph poles west of milepost 497, and 12 meters (39 feet) north of the center of the track. An iron pipe. (705.406 meters or 2,314.320 feet.)

H 14.—About 3.6 miles east of Coahoma, Howard County, on the Texas & Pacific Railway right of way at milepost 500, 12 meters (39 feet) south of the center of the main-line track. An iron pipe. (722.321 meters or 2,369.815 feet.)

I 14.—At Coahoma, Howard County, at the southeast corner of the section-house yard, 81 meters (266 feet) west of the Texas & Pacific Railway depot, and 81 meters (102 feet) south of the center of the main-line track. A stone post with square hole in top. (733.654 meters or 2,406.997 feet.)

J 14.—About 1.9 miles west of Coahoma, Howard County, on the Texas & Pacific Railway right of way, 10 meters (33 feet) west of the fourteenth tele-

graph pole west of milepost 504, and 14 meters (46 feet) north of the center of the track. An iron pipe. (739.053 meters or 2,424.709 feet.)

K 14.—About 0.8 mile east of Big Spring, Howard County, on the Texas & Pacific Railway right of way, at the tenth telegraph pole east of milepost 512, just east of a road crossing at the west end of a short cut, and 10 meters (33 feet) north of the center of the track. A stone post with square hole in top. (731.888 meters or 2,401.203 feet.)

L 14.—At Big Spring, Howard County, at grade line on the north face of the new brick depot of the Texas & Pacific Railway, 16 meters (52 feet) from the northeast corner of the building, 4 meters west of the center of the main entrance, and 13 meters (43 feet) from the center of the main-line track. A brass disk. (732.073 meters or 2,401.809 feet.)

M 14.—At Big Spring, Howard County, 22 meters (72 feet) from the center of the main-line track of the Texas & Pacific Railway, on the west sidewalk in the front yard of the railway Y. M. C. A. building, 11 meters (36 feet) from the northwest corner of the building, 8 meters north of the west column of the porch, and 14 meters (46 feet) from the northeast corner of the porch. A stone post with square hole in top. (731.927 meters or 2,401.330 feet.)

South end meridian line.—At Big Spring, Howard County, in the southwest corner of the courthouse yard. The bench mark is the center of the "G" of the inscription "U. S. C. & G. S.," on top of the hard limestone monument 7 inches square, projecting 6 inches above the surface, which marks the south end of the meridian line established in 1901. The north end of the meridian line is probably destroyed by recent improvements. (741.741 meters or 2,433.529 feet.)

N 14.—About 3.9 miles west of Big Spring, Howard County, on the Texas & Pacific Railway right of way, at milepost 524 (old numbering), about 100 meters (525 feet) west of the fill over the arm of Hughes Lake, and 12 meters (39 feet) north of the main-line track. An iron pipe. (736.228 meters or 2,415.441 feet.)

O 14.—About 6.4 miles west of Big Spring, Howard County, on the Texas & Pacific Railway right of way, 11 meters (36 feet) south of the center of the track, 4 meters west of the fence at a road crossing, and 2 meters from the right-of-way fence. An iron pipe. (738.566 meters or 2,423.112 feet.)

P 14.—At Morita, Howard County, on the Texas & Pacific Railway right of way, 73 meters (240 feet) west of the section house, 14 meters (46 feet) north of the center of the track in line with the right-of-way fence just west of a byroad crossing. A stone post with square hole in top. (754.562 meters or 2,475.592 feet.)

Q 14.—About 3.2 miles west of Morita, Howard County, 9 meters north of the center of the Texas & Pacific Railway track, 2.5 meters from the right-of-way fence, on the east side of a byroad or trail that crosses the track to a house on the south side of the railroad. An iron pipe. (753.705 meters or 2,472.977 feet.)

R 14.—About 3.6 miles east of Stanton, Martin County, on the Texas & Pacific Railway right of way, 25 meters (82 feet) north of the center of the track, and 2 meters from the fence of the county road paralleling the track. An iron pipe. (784.385 meters or 2,573.436 feet.)

Stanton (triangulation station).—About 1 mile southeast of Stanton, Martin County, on the highest point of a narrow ridge running north and south, about 0.5 mile south of the Texas & Pacific Railway, and S. 54° E. from the Stanton city water tower. A cap screwed to the top of a 3-inch iron pipe which is embedded in concrete. (825.448 meters or 2,708.167 feet.)

S 14.—At Stanton, Martin County, in the northeast corner of the Martin County Courthouse yard, 45 meters (148 feet) from the corner stone of the courthouse, 0.4 meter from the north fence of the yard and 1.5 meters from the east fence. A stone post with square hole in top. (814.888 meters or 2,673.612 feet.)

T 14.—At Stanton, Martin County, on the south side of the circular concrete foundation of the Texas & Pacific Railway water-purifying tower, 0.3 meter from the steel wall, and 4 meters from the center of the track. A copper bolt. (811.744 meters or 2,663.197 feet.)

U 14.—About 2.8 miles west of Stanton, Martin County, on the Texas & Pacific Railway, in the west side of a road crossing, 12 meters (39 feet) north of the center of the track, and 2 meters south of the north right-of-way fence. An iron pipe. (827.074 meters or 2,713.492 feet.)

Stanton south base (triangulation station).—About 7.1 miles west-southwest of Stanton, Martin County, 0.3 mile north of the Texas & Pacific Railway, on

clear level prairie land. A cap screwed to the top of a 3-inch iron pipe which is embedded in concrete. (821.058 meters or 2,693.755 feet.)

V 14.—At Germania, Midland County, on the Texas & Pacific Railway right of way, 44 meters (144 feet) west of the section foreman's house, 26.5 meters (87 feet) north of the center of the track, and 1 meter from the north right-of-way fence. A stone post with square hole in top. (838.692 meters or 2,751.609 feet.)

W 14.—About 0.8 mile west of Germania, Midland County, on the Texas & Pacific Railway right of way, 13 meters (43 feet) north of the center of the track, and 1.5 meters from the fence between the right of way and the county road that parallels the track. An iron pipe. (844.165 meters or 2,769.565 feet.)

X 14.—About 4.8 miles east of Midland, Midland County, on the Texas & Pacific Railway right of way, 11 meters (36 feet) west of the tenth telegraph pole west of milepost 555, and 3 meters east of the fence of the road that crosses the track. An iron pipe. (848.916 meters or 2,785.152 feet.)

Y 14.—About 8.2 miles east of Midland, Midland County, on the Texas & Pacific Railway right of way, about 60 meters (197 feet) from the rain gauge of the United States Weather Bureau, in range with the east side of a barn about 75 meters (246 feet) south of the track, 13 meters (43 feet) south of the center of the track and 1 meter from the fence between the right of way and the road paralleling it. An iron pipe. (840.134 meters or 2,756.340 feet.)

Z 14.—At Midland, Midland County, about 1 meter east of the southwest corner of the Texas & Pacific Railway depot, in the water table, 1.2 meters above the ground. A copper bolt. (847.715 meters or 2,781.212 feet.)

A 15.—At Midland, Midland County, in the southeast corner of the Midland County Courthouse yard, about 48 meters (157 feet) from the southeast steps of the courthouse, 6 meters from a water plug in the street, and 5 meters west and 1 meter north of the inside of the walk. A stone post with square hole in top. (845.571 meters or 2,774.177 feet.)

B 15.—About 4.7 miles west of Midland, Midland County, on the Texas & Pacific Railway right of way, at the west end of a spur track, 18 meters (59 feet) east of a byroad crossing, 13 meters (43 feet) south of the center of the main-line track, and 0.5 meter from the fence between the right of way and the road paralleling it. An iron pipe. (866.313 meters or 2,842.229 feet.)

Scar (triangulation station).—About 7 miles west of Midland, Midland County, and 3 miles east of Warfield, towns on the Texas & Pacific Railway, and 0.5 mile south of the railroad, on a round knoll in a cultivated field, the property of the Scarborough Cattle Co. of Midland. A brass cap screwed to the top of a 3-inch pipe. (880.646 meters or 2,889.253 feet.)

C 15.—At Warfield, Midland County, on the Texas & Pacific Railway, 20 meters (66 feet) east of the section foreman's house, and 18 meters (59 feet) north of the center of the main track. A stone post with square hole in top. (874.611 meters or 2,869.453 feet.)

D 15.—About 1.4 miles west of Warfield, Midland County, on the Texas & Pacific Railway right of way, 18 meters (43 feet) south of the center of the track. An iron pipe. (871.840 meters or 2,860.361 feet.)

E 15.—About 5.3 miles east of Odessa, Ector County, on the Texas & Pacific Railway right of way, near the third telegraph pole east of milepost 575, and 12 meters (39 feet) south of the center of the track. An iron pipe. (878.658 meters or 2,882.731 feet.)

Odessa (triangulation station).—About 2 miles east of Odessa, Ector County, and 1 mile north of the Texas & Pacific Railway, on the highest point of a low bare knoll in the pasture of C. P. Turner and 0.5 mile north of his house. A cap screwed to the top of a 3-inch iron pipe which is embedded in concrete. (898.564 meters or 2,948.039 feet.)

F 15.—At Odessa, Ector County, on the southwest corner of the southwest stone footing of the Texas & Pacific Railway water tank. An outlined square. (883.371 meters or 2,898.193 feet.)

G 15.—At Odessa, Ector County, in the southwest corner of the Ector County Courthouse yard, 42 meters (138 feet) from the southwest corner of the courthouse, and 0.7 meter from the concrete corner post of the yard. A stone post with square hole in top. (884.705 meters or 2,902.569 feet.)

H 15.—About 5.1 miles west of Odessa, Ector County, on the Texas & Pacific Railway right of way, 53 meters (180 feet) east of milepost 585 (old numbering), 13 meters (43 feet) south of the center of the track, and 2 meters from the right-of-way fence. An iron pipe. (897.270 meters or 2,943.793 feet.)

I 15.—At Douro, Ector County, on the Texas & Pacific Railway, in line with the west side of the section foreman's house, 21 meters (69 feet) south of the center of the main-line track, and 28 meters (92 feet) S. 50° E. of a large cottonwood tree north of the track. A stone post with square hole in top. (939.593 meters or 3,082.648 feet.)

J 15.—About 2.2 miles west of Douro, Ector County, on the Texas & Pacific Railway right of way, at the highest point between Big Spring and Toyah, 180 meters (591 feet) east of the entrance to Dead Man's Cut, and 13 meters (43 feet) south of the center of the track at the point of curve of the first curve between Stanton and Metz. An iron pipe. (943.806 meters or 3,095.814 feet.)

K 15.—At Metz, Ector County, on the Texas & Pacific Railway, in line with the west side of the section foreman's house, 20 meters (66 feet) north of the center of the track, and 1 meter from the right-of-way fence. The bench mark is the center of a 15-millimeter square cut in the top of a 5.5-foot section of rail projecting about 1 foot above the ground. (872.570 meters or 2,862.757 feet.)

L 15.—About 2.7 miles west of Metz, Ector County, on the Texas & Pacific Railway right of way, 513 meters (1,683 feet) east of the summit of the highest hill between Metz and Monahans, 12 meters (39 feet) south of the center of the track, and 2 meters from the right-of-way fence. An iron pipe. (883.892 meters or 2,899.902 feet.)

M 15.—About 5.5 miles west of Metz, Ector County, on the Texas & Pacific Railway right of way, 204 feet east of milepost 606, 125 feet west of a fence running north from the railroad, 12.5 meters (41 feet) south of the center of the track, and 2 meters from the right-of-way fence. An iron pipe. (858.349 meters or 2,809.539 feet.)

N 15.—About 1.9 miles east of Sand Hills, Ward County, on the Texas & Pacific Railway right of way, 1.8 meters east of milepost 609, 13 meters (43 feet) south of the center of the track, and 2 meters from the south right-of-way fence. An iron pipe. (837.235 meters or 2,746.828 feet.)

O 15.—At Sand Hills, Ward County, on the Texas & Pacific Railway right of way, 29 meters (95 feet) northeast from the northeast corner of the section foreman's house (main upright), 27 meters (89 feet) from the northwest corner of the tool house, 36 meters (118 feet) north of the center of the track, and 30 meters (98 feet) south of the right-of-way fence. A stone post with square hole in top. (825.380 meters or 2,707.935 feet.)

P 15.—About 2.1 miles west of Sand Hills, Ward County, 12 meters (39 feet) west of milepost 613 of the Texas & Pacific Railway, 13.5 meters (44.3 feet) south of the center of the track, and 2 meters north of the right-of-way fence. An iron pipe. (814.566 meters or 2,672.456 feet.)

Q 15.—At Monahans, Ward County, 20 meters (66 feet) east of the depot at the southwest corner of the yard of the Texas & Pacific Railway agent's dwelling house, in line with two China trees in the yard, the nearest of which is 4 meters west. A stone post with square hole in top. (799.338 meters or 2,622.495 feet.)

R 15.—About 0.6 mile west of Monahans, Ward County, on the Texas & Pacific Railway right of way, 14 meters (46 feet) south of the center of the track at the whistling post. An iron pipe. (796.008 meters or 2,611.766 feet.)

S 15.—About 2.5 miles west of Monahans, Ward County, on the Texas & Pacific Railway right of way, 14 meters (46 feet) north of the center of the track, and 15 meters (49 feet) west of the section-line fence running north. An iron pipe. (794.168 meters or 2,605.533 feet.)

T 15.—At Aroya, Ward County, on the Texas & Pacific Railway right of way, 87 paces west of the section foreman's dwelling house, 7.5 meters west of the southwest corner of the red sandstone quarters for the section hands, and in line with the south side or front of same, 21 meters (69 feet) north of the center of the main-line track, and 5.5 meters north of the right-of-way fence. A stone post with square hole in top. (812.572 meters or 2,665.914 feet.)

U 15.—About 2.5 miles west of Aroya, Ward County, on the Texas & Pacific Railway right of way, at the east end of a mound of earth and rock used as a rail rest, 13 meters (43 feet) south of the center of the track, and 2.21 meters from the fence. An iron pipe. (808.718 meters or 2,653.269 feet.)

V 15.—At Pyote, Ward County, on the Texas & Pacific Railway right of way, 53 meters (174 feet) west of the depot, 13 meters (43 feet) south of the center of the track, 2 meters north of the right-of-way fence, and 1 meter west of the cattle-guard fence. An iron pipe. (798.516 meters or 2,619.798 feet.)

W 15.—At **Pyote**, Ward County, 11 meters (36 feet) west of the Texas & Pacific Railway depot, 18.4 meters (60 feet) west of the southwest corner of the stone house used as quarters for the section hands, and 18 meters (59 feet) north of the center of the main track. A stone post with square hole in top. (800.249 meters or 2,625.484 feet.)

X 15.—About 4.1 miles west of **Pyote**, Ward County, on the Texas & Pacific Railway right of way, opposite a bungulow distant 175 meters (574 feet) to the south, 13.4 meters (44 feet) south of the center of the track, and 1.8 meters from the right-of-way fence. An iron pipe. (795.051 meters or 2,608.429 feet.)

Y 15.—At **Quito**, Ward County, on the Texas & Pacific Railway right of way, 13.5 meters (44 feet) south of the track, and 0.2 mile west of the section foreman's dwelling house. A stone post with square hole in top. (818.849 meters or 2,686.507 feet.)

Z 15.—About 1.7 miles west of **Quito**, Ward County, on the main line of the Texas & Pacific Railway, 50 meters (164 feet) east of the quarry spur, on bridge No. 635A, on top of the south end of the coping stone of the east abutment, 0.15 meter from the west side of the stone and 0.55 meter from the south end, 2.2 meters from the center of the track, and 1 meter below the rail. The bottom of a square hole. (812.044 meters or 2,664.181 feet.)

A 16.—About 2 miles west of **Quito**, Ward County, on the Texas & Pacific Railway bridge No. 635D, on top of the north end of the coping stone of the west abutment, 0.66 meter from the east side of 0.8 meter from the north end of the stone, 0.9 meter below the rail, and 2.1 meters north of the center of the track. A copper bolt. (810.573 meters or 2,659.355 feet.)

B 16.—About 2.3 miles west of **Quito**, Ward County, on the Texas & Pacific Railway bridge No. 636A, just west of a rock quarry, on top of the north end of the west abutment, 1.15 meters from the north end and 0.14 meter from east edge of the coping stone, 1.5 meters from the center of the track and 0.9 meter below the rail. The bottom of a square hole. (809.386 meters or 2,655.401 feet.)

C 16.—About 3.1 miles east of **Barstow**, Ward County, on the south end of the east abutment of a Texas & Pacific Railway culvert, 0.3 meter from the west side and 0.55 meter from the south end of the coping stone, 2.2 meters south of the center of the track, and 0.9 meter below the rail. The bottom of a square hole. (808.131 meters or 2,651.343 feet.)

Hays (triangulation station).—About 4.5 miles northeasterly from **Barstow**, Ward County, on the northwest corner and highest point of the first very prominent hill northeast of **Barstow**, 1.8 miles N. 28° W. from **Rogers'** rock quarry, and in the pasture of **N. L. Hays**, whose ranch house is 1 mile S. 55° E. from the station. A cap screwed to the top of a 3-inch iron pipe which is embedded in concrete. (853.060 meters or 2,798.748 feet.)

D 16.—About 0.6 mile east of **Barstow**, Ward County, on the Texas & Pacific Railway, 3 feet east of the house just north of the track, 12.6 meters (41 feet) north of the center of the track, 2.7 meters south of the north right-of-way fence, and 25.4 meters (83 3 feet) north of section post 176-177. An iron pipe. (781.706 meters or 2,564.647 feet.)

E 16.—At **Barstow**, Ward County, in the Ward County Courthouse yard, 31.1 meters (102 feet) south and 5 meters west of the center of the main entrance to the building, 5 meters west of the front gateway, and 2 meters north of the south yard fence. A stone post with square hole in top. (782.432 meters or 2,567.029 feet.)

F 16.—About 1.6 miles west of **Barstow**, Ward County, on the Texas & Pacific Railway right of way, 43.3 meters (142 feet) west of bridge No. 641A, which is an inverted siphon for an irrigation ditch, 12.5 meters (41 feet) south of the center of the track, and 2 meters from the right-of-way fence. An iron pipe. (782.092 meters or 2,565.913 feet.)

G 16.—About 3 miles east of **Pecos**, Reeves County, on the Texas & Pacific Railway right of way, 21 meters (69 feet) west of bridge No. 643A over an irrigation ditch, 13.5 meters (44 feet) south of the center of the track, and 2 meters from the fence. An iron pipe. (782.557 meters or 2,567.439 feet.)

H 16.—About 2.1 miles east of **Pecos**, Reeves County, on the Texas & Pacific Railway bridge No. 644B over the **Pecos River**, on top of the north end of the west abutment, 0.3 meter from the east side of the coping stone, 0.5 meter south of the center of the north truss, 1.8 meters from the north end of the abutment, 2 meters north of the center of the track, and 0.8 meter below the rail. A copper bolt. (783.881 meters or 2,571.783 feet.)

I 16.—At **Pecos**, Reeves County, across the street from the Texas & Pacific Railway passenger station, on the north wall of the annex to the Orient Hotel, 0.8 meter from the northeast corner, 0.3 meter from the east side of a window, and 1.1 meters above the sidewalk. A brass disk. (788.503 meters or 2,586.947 feet.)

J 16.—At **Pecos**, Reeves County, on the Texas & Pacific Railway, in the northeast corner of the yard of the section foreman's dwelling house, 9 meters south of the center of the main track. A stone post with square hole in top. (787.644 meters or 2,584.129 feet.)

K 16.—About 4 miles west of **Pecos**, Reeves County, on the Texas & Pacific Railway right of way, 2.4 meters from the south fence, 13 meters (43 feet) south of the center of the track, and 5 telegraph poles east of milepost 651. An iron pipe. (805.961 meters or 2,644.224 feet.)

L 16.—About 2.4 miles east of **Hermosa**, Reeves County, on the Texas & Pacific Railway right of way, 14 telegraph poles west of milepost 653, 2.3 meters from the south fence, and 13 meters (43 feet) south of the center of the track at the west end of a mound of earth used as a rail rest. An iron pipe. (819.458 meters or 2,688.505 feet.)

M 16.—At **Hermosa**, Reeves County, on the Texas & Pacific Railway, in line with the south side (front) of the section foreman's dwelling house, 100 feet west of the southwest corner, and 13.4 meters (44 feet) north of the center of the track. A stone post with square hole in top. (832.237 meters or 2,730.431 feet.)

N 16.—About 3.6 miles west of **Hermosa**, Reeves County, 14 telegraph poles west of milepost 659 of the Texas & Pacific Railway, 13.4 meters (44 feet) south of the center of the track, and 2 meters from the right-of-way fence. An iron pipe. (850.054 meters or 2,788.886 feet.)

O 16.—About 2.4 miles east of **Toyah**, Reeves County, 14.7 meters (48 feet) north of the center of the Texas & Pacific Railway track, 1.5 meters from the north right-of-way fence, and 40 meters (131 feet) from point of curvature of the only curve between **Hermosa** and **Toyah**. An iron pipe. (868.343 meters or 2,848.905 feet.)

P 16.—At **Toyah**, Reeves County, on the Texas & Pacific Railway right of way, 395 meters (1,296 feet) east of the depot, 7 meters east of the southeast corner of the section house in line with the front of the house, and 10 meters (33 feet) north of the center of the main track. A stone post with a square hole in the top. (886.309 meters or 2,907.832 feet.)

Q 16.—At **Toyah**, Reeves County, 559 meters (1,834 feet) west of the depot, on the southeast corner of the southeast stone footing of the more westerly one of two water tanks opposite the roundhouse of the Texas & Pacific Railway, and 3 meters from the center of the main track. The bottom of a square hole. Not found in 1921. (890.629 meters or 2,922.005 feet.)

R 16.—At **Toyah**, Reeves County, 759 meters (2,490 feet) west of the depot on the circular concrete foundation of the Texas & Pacific Railway water-softening tower, 0.48 meter east of the manhole near the bottom of the tank, and 7.6 meters south of the center of the main-line track. A copper bolt. (891.415 meters or 2,924.584 feet.)

S 16.—About 3.9 miles west of **Toyah**, Reeves County, at the point of curve of the first curve of the Texas & Pacific Railway west of **Toyah**, 28 meters (92 feet) northwest of milepost 670, 14.4 meters (47 feet) north of the center of the track, and 1 meter from the north fence. An iron pipe. (920.099 meters or 3,018.602 feet.)

T 16.—About 7 miles west of **Toyah**, Reeves County, on the Texas & Pacific Railway right of way, 3.8 meters southwest of milepost 673, 13.8 meters (45.3 feet) south of the center of the track, and 1.6 meters from the fence. An iron pipe. (955.747 meters or 3,135.647 feet.)

U 16.—At **Gozar**, Reeves County, 1.95 meters west of the southwest corner of the Texas & Pacific Railway section house, 13.55 meters (44.5 feet) north of the center of the track, and 0.5 mile west of milepost 676. A stone post with a square hole in the top. (998.409 meters or 3,275.613 feet.)

V 16.—About 2.5 miles west of **Gozar**, Reeves County, 1 telegraph pole west of milepost 679 of the Texas & Pacific Railway, 12.90 meters (42.3 feet) south of the center of the track, and 2.5 meters from the fence. An iron pipe. (1,029.637 meters or 3,378.008 feet.)

W 16.—About 1 mile east of **San Martine**, Reeves County, at the point of tangency of the first curve on the Texas & Pacific Railway east of **San Martine**, 1,920 feet east of milepost 686, 13.2 meters (43.3 feet) south of the center of

the track, and 2.3 meters from the fence. An iron pipe. (1,135.497 meters or 3,725.377 feet.)

X 16.—At San Martine, Reeves County, 0.74 meter west of the southwest corner of the section house, and 9.3 meters north of the center of the Texas & Pacific Railway. A stone post with square hole in top. Not found in 1921. (1,132.483 meters or 3,715.488 feet.)

Y 16.—At San Martine, Reeves County, on the southeast corner of the southeast masonry footing of the Texas & Pacific Railway water tank, 15 feet north of the center of the main track. The bottom of a square hole. The tank had been removed in 1921 but the footing appeared undisturbed. (1,133.339 meters or 3,718.296 feet.)

Z 16.—About 2.5 miles west of San Martine, Reeves County, on the Texas & Pacific Railway bridge No. 689.2, on top of the north wing wall of the west abutment, 3.6 meters from the west end of a bridge girder, and 2.4 meters north of the center of the track. A copper bolt. (1,167.207 meters or 3,829.412 feet.)

A 17.—About 5.6 miles east of Kent, Culberson County, on the Texas & Pacific Railway, at the foot of the south point of the hill forming the west side wall of Levinson Pond, at the fourth telegraph pole west of milepost 692, 14 meters (46 feet) north of the center of the track, 40 feet from the right-of-way fence, and 14 meters (46 feet) northeast of the small water tank alongside the track. An iron pipe. (1,215.515 meters or 3,987.902 feet.)

B 17.—About 3.4 miles east of Kent, Culberson County, 1 telegraph pole northeast of milepost 695 of the Texas & Pacific Railway, at the east end of a cut, 1.93 meters north of the gauge of the north rail, 0.2 meter from the south edge of a flat stone in the cut, and 0.3 meter below the rail. A copper bolt. (1,260.925 meters or 4,136.885 feet.)

C 17.—At Kent, Culberson County, 10 meters (33 feet) south of the main line of the Texas & Pacific Railway, in the northeast corner of the section-house yard, 7 meters from the northeast corner of the section house, and in range with two china trees, 4 meters east of the east tree. A stone post with square hole in top. (1,283.986 meters or 4,212.544 feet.)

D 17.—About 1.7 miles west of Kent, Culberson County, 8 telegraph poles east of milepost 701 of the Texas & Pacific Railway, 12.8 meters (42 feet) south of the track, and 2.6 meters from the right-of-way fence. A stone post with square hole in top. (1,311.597 meters or 4,303.131 feet.)

E 17.—About 2.0 miles west of Kent, Culberson County, 7 telegraph poles west of milepost 701 of the Texas & Pacific Railway, 70 meters (230 feet) east of the section-line fence running north, on the highest round-topped smooth rock in a cut, 2.6 meters north of the north rail, and 0.75 meter above the rail. A copper bolt. (1,319.019 meters or 4,327.481 feet.)

F 17.—At Boracho, Culberson County, on the Texas & Pacific Railway right of way, in front of the section foreman's house, 5 meters from section post 190, 14 meters (46 feet) south of the center of the track, and 1 meter from the fence. A stone post with square hole in top. (1,358.961 meters or 4,458.525 feet.)

G 17.—About 1.4 miles west of Boracho, Culberson County, on the Texas & Pacific Railway right of way, 38 meters (125 feet) east of bridge No. 710.3, 13 meters (43 feet) south of the center of the track, and 2 meters from the fence. An iron pipe. (1,341.317 meters or 4,400.638 feet.)

H 17.—About 2.8 miles east of Plateau, Culberson County, on the Texas & Pacific Railway right of way, opposite the center of a small artificial pond 75 meters (246 feet) to the north, 14 meters (46 feet) north of the center of the track, and 1 meter from the fence. A stone post with square hole in top. (1,245.660 meters or 4,086.802 feet.)

I 17.—About 1.5 miles east of Plateau, Culberson County, on top of a rock in the first cut of the Texas & Pacific Railway east of Plateau, about 1 meter north of the north rail and on a level with the top of the rail. A copper bolt. (1,225.101 meters or 4,019.352 feet.)

J 17.—At Plateau, Culberson County, on the Texas & Pacific Railway, in front of and across the track from the section foreman's house, 2 meters from the south right-of-way fence. A stone post with square hole in top. (1,201.566 meters or 3,942.137 feet.)

U. S. G. S. 3,889 Vn Hn.—About 1.5 miles west of Plateau, Culberson County, 30.5 meters (100 feet) south of the track of the Texas & Pacific Railway, 305 meters (1,000 feet) east of milepost 727, and 10 feet north of a wagon road. Iron post marked "3,889 Vn Hn 1903." Not found in 1921. (1,187.962 meters or 3,897.505 feet.)

K 17.—About 2.8 miles west of Plateau, Culberson County, on the Texas & Pacific Railway right of way, 12 telegraph poles east of milepost 722, 13.7 meters (45 feet) south of the center of the track, and 1.4 meters from the fence. An iron post. (1,177.843 meters or 3,864.307 feet.)

U. S. G. S. 3,840 Vn Hn.—About 4 miles east of Wild Horse, Culberson County, 9 telegraph poles west of milepost 723 of the Texas & Pacific Railway, 2 telegraph poles east of bridge No. 723.5, 16.4 meters (54 feet) south of the center of the track, 1.6 meters south of the right-of-way fence, and on the north side of a wagon road. An iron post. (1,172.998 meters or 3,848.411 feet.)

U. S. G. S. 3,826 Vn Hn.—About 0.9 mile east of Wild Horse, Culberson County, 7 telegraph poles west of milepost 723 of the Texas & Pacific Railway, 23.6 meters (77 feet) south of the track, 3.6 meters south of the right-of-way fence, and north of a wagon road. An iron post. (1,168.586 meters or 3,833.936 feet.)

L 17.—At Wild Horse, Culberson County, in front of and across the Texas & Pacific Railway track from the section foreman's house, 22 meters (72 feet) south of the main line and 1.8 meters from the right-of-way fence. A stone post with square hole in top. (1,173.468 meters or 3,849.953 feet.)

U. S. G. S. 3,867 Vn Hn.—About 2.2 miles west of Wild Horse, Culberson County, halfway between the second and third Texas & Pacific Railway bridges west of Wild Horse, 50 feet south of the track, and 10 feet south of an abandoned wagon road. An iron post marked "3,867 Vn Hn 1903." (1,181.080 meters or 3,874.927 feet.)

M 17.—About 3.3 miles west of Wild Horse, Culberson County, 17 telegraph poles west of milepost 730 of the Texas & Pacific Railway, 7 telegraph poles east of the bridge over Wild Horse River, 13 meters (43 feet) south of the center of the track, 7.3 meters from the right-of-way fence. An iron pipe. (1,177.459 meters or 3,863.047 feet.)

N 17.—About 2.7 miles east of Van Horn, Culberson County, on the Texas & Pacific Railway 19 telegraph poles west of milepost 732, 18 meters (43 feet) south of the center of the track, and 2 meters from the fence. An iron pipe. (1,199.203 meters or 3,934.385 feet.)

O 17.—At Van Horn, Culberson County, 60 meters (197 feet) west of the Texas & Pacific Railway depot, 11 meters (36 feet) north of the center of the track, and 0.5 meter east of the fence of the section foreman's yard. A stone post with square hole in top. (1,233.910 meters or 4,043.253 feet.)

U. S. G. S. 4,039 Vn Hn.—At Van Horn, Culberson County, 240 feet west of the station of the Texas & Pacific Railway, 100 feet south of the main track, and 4 feet south of a telegraph pole. An iron post. (1,233.669 meters or 4,047.462 feet.)

U. S. G. S. 4,239 Vn Hn.—About 3.1 miles west of Van Horn, Culberson County, 378 meters (1,240 feet) west of milepost 737 of the Texas & Pacific Railway, and 25 meters (82 feet) north of the center of the track. An iron post stamped "4,239 Vn Hn." Not found in 1921. (1,294.520 meters or 4,247.105 feet.)

U. S. G. S. 4,395 Vn Hn.—About 5.7 miles west of Van Horn, Culberson County, and 1.4 miles west of Hillside Switch on the Texas & Pacific Railway, 1,200 feet northwest of the third bridge west of the switch, 10 feet south of a wagon road and 600 feet north of the track. An iron post stamped "4,395 Vn Hn 1903." (1,342.148 meters or 4,403.964 feet.)

U. S. G. S. 4,603 Vn Hn.—About 2 miles east of Allamoore, Hudspeth County, on the Texas & Pacific Railway, 7 meters east of the east row of Spanish dagger trees, and 8.6 meters north of the center of the track. The station and section house to which the earlier description referred have been moved 2 miles west. An iron post. (1,405.683 meters or 4,611.812 feet.)

P 17.—About 1 mile east of Allamoore, Hudspeth County, 7 telegraph poles west of milepost 745 of the Texas & Pacific Railway, 13.8 meters (45 feet) north of the center of the track, and 1.4 meters from the right-of-way fence. A stone post with square hole in top. (1,884.910 meters or 4,543.659 feet.)

Allamoore (triangulation station).—At Allamoore, Hudspeth County, about 9 meters (30 feet) N. 20° W. from the center of the water tank of the Texas & Pacific Railway, 12.5 meters (41 feet) north of the north rail, and 1.6 meters south of the railway fence line. The top of a cap screwed to the top of a 3-inch iron pipe. (1,387.186 meters or 4,551.126 feet.)

Q 17.—About 1 mile west of Allamoore, Hudspeth County, 8 telegraph poles west of milepost 747 of the Texas & Pacific Railway, 240 feet east of bridge No.

747.4, 14 meters (46 feet) north of the center of the track, 3 meters from the right-of-way fence. An iron pipe. (1,378.156 meters or 4,521.500 feet.)

R 17.—About 4 miles west of Allamoore, Hudspeth County, 8 telegraph poles west of milepost 750 of the Texas & Pacific Railway, 80 feet east of bridge No. 750.4, 12.7 meters (42 feet) north of the center of the track, and 2 meters from the right-of-way fence. An iron pipe. (1,358.912 meters or 4,458.364 feet.)

S 17.—About 1.9 miles east of Eagle Flat, Hudspeth County, 6 telegraph poles east of milepost 752 of the Texas & Pacific Railway, 4 telegraph poles east of bridge No. 752.4, 11.6 meters (38 feet) south of the center of the track, and 3.4 meters from the right-of-way fence. An iron pipe. (1,361.050 meters or 4,465.407 feet.)

T 17.—At Eagle Flat, Hudspeth County, on the Texas & Pacific Railway, 6 telegraph poles west of and across the tracks from the section foreman's house, 25 meters (82 feet) south of the main-line track, and 1.6 meters from the right-of-way fence. A stone post with square hole in top. (1,359.283 meters or 4,459.581 feet.)

U 17.—About 2.8 miles west of Eagle Flat, Hudspeth County, 8 telegraph poles west of milepost 756 of the Texas & Pacific Railway, 12.2 meters (40 feet) south of the center of the track, and 2.8 meters from the right-of-way fence. A stone post with square hole in top. (1,347.112 meters or 4,419.650 feet.)

V 17.—About 5.8 miles east of Sierra Blanca, Hudspeth County, 4 meters west of milepost 759 of the Texas & Pacific Railway, 12 meters (39 feet) south of the center of the track, and 3.3 meters north of the fence between the right of way and a wagon road. An iron pipe. Not found in 1921. (1,328.206 meters or 4,357.622 feet.)

W 17.—At La Valley, 4.5 miles east of Sierra Blanca, Hudspeth County, on the Texas & Pacific Railway right of way, 12.8 meters (42 feet) south of the center of the track, 3.7 meters from the fence, and in front of the west wing of the La Valley Hotel, about 40 meters (131 feet) distant. A stone post with square hole in top. (1,335.060 meters or 4,380.110 feet.)

X 17.—About 2.8 miles east of Sierra Blanca, Hudspeth County, 4 telegraph poles east of milepost 765 of the Texas & Pacific Railway, 11.5 meters (38 feet) south of the center of the tracks, and 3.9 meters from the right-of-way fence. An iron pipe. (1,339.954 meters or 4,396.165 feet.)

Y 17.—At Sierra Blanca, Hudspeth County, in line with the north side of the Southern Pacific Railroad and the Texas & Pacific Railway depot, 16 meters (52 feet) west of the northwest corner, 9.2 meters south of the center of the main line of the latter railroad, and 15.6 meters (51 feet) north of the center of the main line of the former. A stone post with square hole in top. (1,377.669 meters or 4,519.902 feet.)

Z 17.—About 1.7 miles west of Sierra Blanca, Hudspeth County, 20 meters (95 feet) north of the center of the Southern Pacific Railroad track, 1.7 meters from the right-of-way fence, 1,075 feet east of bridge No. 738B, and halfway between the thirteenth and fourteenth telegraph poles east of milepost 730. A stone post with square hole in top. (1,389.156 meters or 4,557.590 feet.)

A 18.—At Etholen, Hudspeth County, on the Southern Pacific Railroad, 13 meters (43 feet) north of the station sign, 13 meters (43 feet) west of the engine house (pump station), 24.5 meters (80 feet) north of the center of the track, and 5.8 meters from the right-of-way fence. A stone post with square hole in top. (1,417.923 meters or 4,651.969 feet.)

B 18.—About 1.7 miles west of Etholen, Hudspeth County, 3 meters west of milepost 743 of the Southern Pacific Railroad, on the right of way, 12.8 meters (42 feet) south of the center of the track, 2.4 meters from the fence, and 35 meters (115 feet) west of bridge No. 742B. An iron pipe. (1,398.971 meters or 4,589.790 feet.)

C 18.—At Lasca, Hudspeth County, halfway between the third and fourth telegraph poles east of the Southern Pacific Railroad station sign, and 14.4 meters (47 feet) north of the center of the track, on the right of way, 0.9 meter from the fence. A stone post with square hole in top. (1,365.263 meters or 4,479.200 feet.)

D 18.—About 1.7 miles east of Torcer, Hudspeth County, 1.6 meters north of milepost 748 of the Southern Pacific Railroad, 13 meters (43 feet) south of the center of the track on the right of way, 1.8 meters from the fence. An iron pipe. (1,326.418 meters or 4,351.756 feet.)

E 18.—At Torcer, Hudspeth County, 16 meters (52 feet) south of the south-east corner of the Southern Pacific Railroad depot, 29 meters (95 feet) south

of the center of the track, and 1.5 meters from the right-of-way fence. A stone post with square hole in top. (1,303.726 meters or 4,277.308 feet.)

F 18.—About 0.6 mile west of Torcer, Hudspeth County, just west of the Horseshoe Bend on the Southern Pacific Railroad, at transit station 39679+39, 293 feet east of milepost 751, 12 meters (39 feet) west of the center of the track, and 2 meters from the fence. An iron pipe. (1,287.095 meters or 4,222.744 feet.)

G 18.—About 1.1 miles west of Small, Hudspeth County, on the Southern Pacific Railroad, at the sixth telegraph pole east of the point of the mountain, 13.5 meters (44 feet) south of the center of the track, and 1.8 meters from the fence. An iron pipe. (1,235.465 meters or 4,053.354 feet.)

H 18.—About 1.7 miles east of Finlay, Hudspeth County, 4 meters (13 feet) east of the second telegraph pole east of milepost 757 of the Southern Pacific Railroad, 24 meters (79 feet) west of bridge No. 756I, 13.8 meters (45 feet) south of the center of the track, and 1.8 meters from the fence. An iron pipe. (1,214.752 meters or 3,985.399 feet.)

I 18.—At Finlay, Hudspeth County, 9.5 meters west of the center of the Southern Pacific Railroad depot, and 8.4 meters north of the center of the track. A stone post with square hole in top. (1,204.154 meters or 3,950.629 feet.)

J 18.—At Stevenson, Hudspeth County, at the east end of switch on the Southern Pacific Railroad, 12.3 meters (40 feet) southeast of the center of the track, 2 meters from the fence, and 120 feet west of bridge No. 672C. A stone post with square hole in top. (1,177.879 meters or 3,864.425 feet.)

K 18.—At Madden, Hudspeth County, 4 telegraph poles west of the station sign, 15 meters (49 feet) south of the center of the Southern Pacific Railroad track, and 16 meters (52 feet) from the fence. An iron pipe. (1,119.267 meters or 3,672.128 feet.)

L 18.—At Nulo, Hudspeth County, 350 feet south of the station sign, 14 meters (46 feet) east of the center of the Southern Pacific Railroad track, and 1.8 meters from the fence. An iron pipe. (1,087.764 meters or 3,568.772 feet.)

M 18.—At Fort Hancock, Hudspeth County, 200 meters (656 feet) west of the depot, 27.4 meters (90 feet) north of bridge No. 776B of the Southern Pacific Railroad, and 3 meters from the right-of-way fence. A stone post with square hole in top. (1,095.558 meters or 3,594.343 feet.)

N 18.—About 3.1 miles west of Fort Hancock, Hudspeth County, 3 meters west of milepost 780 of the Southern Pacific Railroad, 13.3 meters (44 feet) south of the center of the tracks and 1.8 meters from the right-of-way fence. An iron pipe. (1,096.851 meters or 3,598.586 feet.)

O 18.—At Iser, Hudspeth County, 400 feet west of the east end of the side-track of the Southern Pacific Railroad, 1,000 feet east of the station sign, 25 meters (82 feet) west of bridge No. 783A, 14 meters (46 feet) south of the center of the tracks, and 1.8 meters from the fence. A stone post with square hole in top. (1,118.347 meters or 3,669.110 feet.)

P 18.—About 4 miles east of Polvo, El Paso County, 60 meters (197 feet) west of milepost 786 of the Southern Pacific Railroad, 11.5 meters (38 feet) south of the center of the tracks, and 13.7 meters (45 feet) from the fence. An iron pipe. Not found in 1921. (1,125.182 meters or 3,691.535 feet.)

Q 18.—About 2 miles east of Polvo, El Paso County, 3 meters west of milepost 788 of the Southern Pacific Railroad, 12 meters (39 feet) south of the center of the tracks and 4 meters from the fence. An iron pipe. (1,123.033 meters or 3,684.484 feet.)

R 18.—At Polvo, El Paso County, in front of and across the Southern Pacific Railroad tracks from the section house, 11 meters (36 feet) west of the west end of a switch track, 16 meters (52 feet) south of the center of the main track, and 1.4 meters from the fence. A stone post with square hole in top. (1,113.099 meters or 3,651.892 feet.)

S 18.—About 2 miles west of Polvo, El Paso County, 0.9 meter northwest of milepost 792 of the Southern Pacific Railroad, 14 meters (46 feet) south of the center of the track, and 1.2 meters from the fence. An iron pipe. (1,090.226 meters or 3,576.850 feet.)

U. S. G. S. 3560.—About 2.2 miles west of Polvo, El Paso County, 8 poles west of milepost 792 of the Southern Pacific Railroad, 14 meters (46 feet) south of the center of the track, and 1.3 meters from the fence. An iron post. (1,089.258 meters or 3,573.674 feet.)

T 18.—About 1.9 miles east of Fabens, El Paso County, 2.2 meters east of milepost 798 of the Southern Pacific Railroad, 14 meters (46 feet) south of the center of the track, and 0.4 meter from the fence. An iron pipe. Not found in 1921. (1,096.282 meters or 3,596.719 feet.)

U 18.—At Fabens, El Paso County, 0.2 mile east of the Southern Pacific Railroad depot, 21 meters (69 feet) north of the center of the track, and 1.8 meters northeast of the right-of-way post. A stone post with square hole in top. (1,103.501 meters or 3,620.403 feet.)

V 18.—At Fabens, El Paso County, on the northwest corner of the northwest footing of the water tank of the Southern Pacific Railroad, 9.5 meters south of the center of the track. A copper bolt. (1,103.156 meters or 3,619.271 feet.)

U. S. R. S. 3572.14.—About 1.9 miles west of Fabens, El Paso County, 9 meters (30 feet) west of the Southern Pacific Railroad bridge No. 801G, 14 meters (46 feet) south of the center of the track, and 2 meters from the fence. An iron pipe stamped "U. S. Reclamation Service." Not found in 1921. (1,101.760 meters or 3,614.691 feet.)

U. S. R. S. (3616) (later stamp 3586.94).—About 2.2 miles east of Clint, El Paso County, at the tenth telegraph pole west of milepost 805 of the Southern Pacific Railroad, 400 feet west of a road crossing, 12.9 meters (42 feet) south of the center of the track, and 2 meters from the fence. An iron post. (1,106.253 meters or 3,629.432 feet.)

U. S. R. S. 3592.95.—At Clint, El Paso County, in the southwest corner of the section-house yard, 7.7 meters north of the center of the main-line track of the Southern Pacific Railroad. An iron pipe stamped "U. S. Reclamation Service." Not found in 1921. (1,108.082 meters or 3,635.432 feet.)

W 18.—At Clint, El Paso County, 400 meters (1,312 feet) west of the Southern Pacific Railroad depot, on the north side of a wagon road, 12 meters (39 feet) south of the main line of the railroad, and 2.5 meters west of bridge No. 807B over an irrigation ditch. A stone post with a square hole in the top. (1,108.126 meters or 3,635.577 feet.)

X 18.—About 1 mile west of Clint, El Paso County, 14 meters (46 feet) north of the center of the Southern Pacific Railroad track at milepost 809, and 1.1 meters from the fence. An iron pipe. (1,109.134 meters or 3,638.884 feet.)

U. S. R. S. 3600.09.—About 2.5 miles west of Clint, El Paso County, 2.8 meters west of milepost 810 of the Southern Pacific Railroad, 14.4 meters (47 feet) south of the center of the track, and 0.6 meter from the fence. An iron pipe stamped "U. S. Reclamation Service." (1,110.257 meters or 3,642.538 feet.)

Y 18.—At Belen, El Paso County, 45 meters (148 feet) west of the Southern Pacific Railroad depot at the east end of a switch track, 16.3 meters (53 feet) south of the center of the track, on the south concrete face of the siphon wall of an irrigation ditch under the tracks, 0.2 meter from the west edge, and 0.2 meter from the top of the concrete. A brass disk. Not found in 1921. (1,115.051 meters or 3,658.296 feet.)

U. S. G. S. (3644) (later stamp 3614.68).—At Belen, El Paso County, 10 telegraph poles east of milepost 813 of the Southern Pacific Railroad, 14.5 meters (48 feet) north of the center of the track, and 11 meters (36 feet) east of an adobe hut, in line with the right-of-way fence and some cottonwood trees. An iron post. (1,114.657 meters or 3,657.004 feet.)

Z 18.—At Belen, El Paso County, 130 meters (427 feet) west of the west end of a switch track of the Southern Pacific Railroad at milepost 813, 14 meters (46 feet) south of the center of the track, and 0.8 meter from the fence. A stone post with square hole in top. (1,114.495 meters or 3,656.472 feet.)

A 19.—At Ysleta, El Paso County, about 200 meters (656 feet) west of the Southern Pacific Railroad depot, 2 meters from the southwest corner of the section-house yard, and 9 meters (30 feet) north of the center of the track. A stone post with square hole in top. (1,118.552 meters or 3,689.782 feet.)

B 19.—About 3.2 miles west of Ysleta, El Paso County, 1 meter east of milepost 820 of the Southern Pacific Railroad, 14 meters (46 feet) south of the center of the track, and 0.5 meter from the fence. An iron pipe. (1,122.568 meters or 3,682.958 feet.)

C 19.—At Alfalfa, El Paso County, 8 meters (26 feet) south of the station sign, 14 meters (46 feet) south of the center of the Southern Pacific Railroad track, and 1 meter from the fence. An iron pipe. (1,125.659 meters or 3,693.100 feet.)

D 19.—About 0.7 mile west of Alfalfa, El Paso County, on the reinforced concrete highway bridge of the macadamized county road, on top of the north wing wall, 32 meters (105 feet) from the center of the Southern Pacific

Railroad track. A brass disk. Not found in 1921. (1,127.113 meters or 3,697.870 feet.)

E 19.—At El Paso, El Paso County, on top of the masonry pier at the northwest corner of the abandoned El Paso brewery, 1.1 meters north of the corner of the main building, and 28 meters (92 feet) south of the center of the Southern Pacific Railroad tracks. A copper bolt. (1,129.605 meters or 3,708.045 feet.)

F 19.—At El Paso, El Paso County, 50 feet north of the crossing of the Southern Pacific Railroad and the El Paso & Southwestern Railroad tracks, in the northeast corner of a grassy plot 6 meters south of the former railroad, 14 meters (46 feet) east of the latter railroad, and 6 meters east of tower No. 47. A stone post with square hole in top. (1,129.141 meters or 3,704.523 feet.)

G 19.—At El Paso, El Paso County, on the west face of the south concrete pier of the viaduct over the Southern Pacific Railroad and the El Paso & Southwestern Railroad tracks, on Austin Street, 8.5 meters south of the main line of the former railroad, and 1.4 meters above the ground. A brass disk. (1,130.644 meters or 3,709.454 feet.)

H 19.—At El Paso, El Paso County, at the corner of Texas and Ochoa Streets. The bench mark which is an El Paso city monument, is the cross on the top of a copper bolt which is stamped "U.S.B.M." and which is set in a concrete post 10 inches below the level of the paving and covered by an iron plate set in the paving. (1,129.904 meters or 3,707.027 feet.)

U. S. G. S., 3698.—At El Paso, El Paso County, at the west end of the lower step of the north entrance to El Paso City Hall. The disk marking the point has been broken off and only the shank remains. (1,131.085 meters or 3,710.902 feet.)

U. S. G. S., 365.—At El Paso, El Paso County, at the east end of the lower step of the south entrance to the El Paso City Hall, on the sidewalk between the curb and the cement step. A disk stamped "865-B-1905." Part of the disk is missing. (1,130.771 meters or 3,709.871 feet.)

LINE XI, JERICHO, TEX., TO ISLETA, N. MEX.

This is the Texas portion of a line which follows the Chicago, Rock Island & Gulf Railway from Jericho to Amarillo, Tex., and the Atchison, Topeka & Santa Fe Railway from Amarillo, Tex., to Isleta, N. Mex. The field work was done by C. M. Cade, assistant, between June 5 and November 4, 1911.

I 19.—About 8 miles west of Jericho, Donley County, on the Chicago, Rock Island & Gulf Railway right of way, 2 meters from the north fence, in line with the telegraph poles, 14 meters (46 feet) north of the center of the track, and about midway between 2 concrete culverts just west of milepost 711. An iron pipe. (972.203 meters or 3,189.636 feet.)

J 19.—At Boydston, Gray County, 7 meters (23 feet) northeast of a county-line post between Gray and Donley Counties, on the Chicago, Rock Island & Gulf Railway right of way, 15 meters (49 feet) north of the center of the track, and 10 meters (33 feet) east of the first telegraph pole east of the pole marked "713/30." An iron pipe. (985.022 meters or 3,231.693 feet.)

K 19.—At Groom, Carson County, on the right of way, across the track from and in range with the east end of the Chicago, Rock Island & Gulf Railway depot, 1 meter from the fence, and 48 meters (157 feet) south of the center of the main-line track. A stone post with square hole in top. (994.872 meters or 3,264.010 feet.)

L 19.—About 1.9 miles west of Groom, Carson County, on top of the south end wall of the ballasted concrete culvert of the Chicago, Rock Island & Gulf Railway, at a pole marked "721-05." A copper bolt. (1,003.446 meters or 3,292.139 feet.)

M 19.—About 4.1 miles west of Groom, Carson County, on the Chicago, Rock Island & Gulf Railway right of way, in line with the telegraph poles, 14 meters (46 feet) north of the center of the track, and just east of the second pole west of the pole marked "723." An iron pipe. (1,007.812 meters or 3,306.463 feet.)

N 19.—At Lark, Carson County, on the Chicago, Rock Island & Gulf Railway right of way, 80 meters (98 feet) north of the center of the track at the station sign, and 0.2 mile east of the section house. A stone post with square hole in top. (1,028.184 meters or 3,378.300 feet.)

O 19.—About 4.3 miles east of Conway, Carson County, at a pole marked "730-20," on the Chicago, Rock Island & Gulf Railway opposite the east whistling post for a road crossing, 12 meters (39 feet) north of the center of the track, and 4 meters from the fence between the railroad and the wagon road paralleling the right of way. An iron pipe. (1,043.943 meters or 3,425.003 feet.)

P 19.—At Conway, Carson County, on the Chicago, Rock Island & Gulf Railway right of way, at the southwest corner of the crossing of two roads, 48 meters (157 feet) north of the center of the track, and 48 meters (157 feet) north 30° east of the northeast concrete foundation of the depot. An iron pipe. (1,053.816 meters or 3,456.739 feet.)

Q 19.—About 4 miles west of Conway, Carson County, on the Chicago, Rock Island & Gulf Railway right of way, 165 meters (541 feet) east of a point of curve, and 11 meters (36 feet) north of the center of the track at milepost 739. An iron pipe. (1,057.696 meters or 3,470.124 feet.)

R 19.—At Yarnall, Carson County, across the Chicago, Rock Island & Gulf Railway track from the section house, near the corner of the fence, 50 meters (164 feet) south of the center of the track. A stone post with a square hole in top. (1,074.279 meters or 3,524.530 feet.)

S 19.—About 4 miles west of Yarnall, Carson County, on the Chicago, Rock Island & Gulf Railway right of way, at the west end of a long fill and near the east end of a cut, just east of a wagon trail crossing, 29 meters (95 feet) north of the center of the track, and 1.5 meters from the fence. An iron pipe. (1,072.723 meters or 3,519.425 feet.)

T 19.—At Royal, Potter County, on the Chicago, Rock Island & Gulf Railway right of way, 27 meters (89 feet) south of the center of the track, in front of and across the track from the section house and in range with the west end, and 5 meters from the fence on the bank of a ditch bordered with locust bushes. An iron pipe. (1,096.756 meters or 3,598.274 feet.)

U 19.—About 4 miles east of Amarillo, Potter County, on the Chicago, Rock Island & Gulf Railway right of way, 28.7 meters (94.2 feet) north of the center of the track at the point of tangency of the first curve out of Amarillo. It is at the point where the Chicago, Rock Island & Gulf Railway and the Atchison, Topeka & Santa Fe Railway tracks begin to diverge, 35.2 meters (115.5 feet) from the center of the latter track, on the curve halfway between the first and second telegraph poles east of pole 756/30, and 96 meters (315 feet) east of bridge No. 7569. An iron pipe. (1,100.206 meters or 3,609.593 feet.)

V 19.—About 1.2 miles east of the Atchison, Topeka & Santa Fe Railway depot, at Amarillo, Potter County, on the Chicago, Rock Island & Gulf Railway right of way, 3 meters west of the center of the track on top of the concrete foundation of the east semaphore for crossing the tracks of the other railroad. A brass disk. (1,113.779 meters or 3,654.123 feet.)

W 19.—About 0.8 mile east of the Atchison, Topeka & Santa Fe Railway depot, at Amarillo, Potter County, directly south of the west end of the signal tower at the crossing of this railway, the Chicago, Rock Island & Gulf Railway, and the Fort Worth & Denver City Railway, 18 paces from the tracks of the first, 63 paces from the tracks of the second, and 18 paces from the tracks of the last-mentioned railway. An iron pipe. (1,114.272 meters or 3,655.741 feet.)

X 19.—At Amarillo, Potter County, on the front face of the north pillar supporting the center arch of the porch of the Atchison, Topeka & Santa Fe Railway depot, 20 meters (66 feet) west of the center of the main-line track, and 1.44 meters above the brick paving. A brass disk. (1,117.840 meters or 3,667.447 feet.)

Y 19.—At Amarillo, Potter County, on the south face of the foundation of Amarillo City Hall, near the southwest corner, at the elevation of the bottom of the corner stone, and 0.4 meter distant. A brass disk. (1,116.702 meters or 3,663.713 feet.)

Z 19.—At Zita, Randall County, just west of the south end of the Atchison, Topeka & Santa Fe Railway station, 29.8 meters (97.8 feet) west of the center of the main-line track, and near the right-of-way fence. An iron pipe. (1,112.930 meters or 3,651.338 feet.)

A 20.—South of Zita, Randall County, opposite the iron rail marking mile 560, on the Atchison, Topeka & Santa Fe Railway in line with the telegraph poles, 15 meters (49 feet) south of pole 560, 21.8 meters (71.5 feet) west of the center of the track, and 9 meters (30 feet) from the fence. An iron pipe. (1,113.594 meters or 3,653.516 feet.)

B 20.—At Haney, Randall County, on the right of way of the Atchison, Topeka & Santa Fe Railway, 34 meters (112 feet) west of the center of the main-

line track at the station sign, 1.2 meters from the right-of-way fence. A stone post with square hole in top. (1,109.841 meters or 3,641.203 feet.)

C 20.—About 4.7 miles east of Canyon, Randall County, at the east end of Huney Pit, on top of the west end of the south abutment of the Atchison, Topeka & Santa Fe Railway bridge No. 565A. A brass disk. (1,095.053 meters, or 3,592.686 feet.)

D 20.—At Canyon, Randall County, in the northwest corner of Randall County Courthouse yard, at the center of the arc of the curbstone. A stone post with square hole in top. (1,082.440 meters or 3,551.306 feet.)

E 20.—At Canyon, Randall County, 91 meters (299 feet) west of the Atchison, Topeka & Santa Fe Railway depot, 18 meters (59 feet) north of the main-line track, on the south face of the reinforced concrete pump station, 0.65 meter from the east side and 1.3 meters above the foundation. A brass disk. (1,090.290 meters or 3,577.060 feet.)

F 20.—At Canyon, Randall County, on the southeast corner of the southwest footing of the Canyon waterworks tanks, 0.2 mile west of the Atchison, Topeka & Santa Fe Railway depot, and 150 meters (492 feet) north of the main-line track. A copper bolt. (1,090.404 meters or 3,577.434 feet.)

G 20.—About 1.8 miles west of Canyon, Randall County, on the top of the east end of the north retaining wall of the Atchison, Topeka & Santa Fe Railway concrete-arch bridge No. 572A. A copper bolt. (1,093.107 meters or 3,586.302 feet.)

H 20.—At Lester, Randall County, on the Atchison, Topeka & Santa Fe Railway right of way, 25 meters (82 feet) north of the center of the track, at the station sign, 1.5 meters from the fence and 7 meters east of a road crossing. An iron pipe. (1,117.813 meters or 3,667.358 feet.)

I 20.—At Umbarger, Randall County, on the right of way at the Atchison, Topeka & Santa Fe Railway station, 27 meters (89 feet) north of the center of the track and 4 meters from the fence. An iron pipe. (1,147.843 meters or 3,765.881 feet.)

J 20.—About 1.7 miles west of Umbarger, Randall County, on top of the west end of the north head wall of cast-iron culvert No. 582A of the Atchison, Topeka & Santa Fe Railway. A brass disk. (1,144.374 meters or 3,754.500 feet.)

K 20.—At Dawn, Deaf Smith County, 440 meters (1,444 feet) west of the Atchison, Topeka & Santa Fe Railway station, 33 meters (108 feet) north of the concrete foundation of the water crane, 31 meters (102 feet) north of the center of the track, and 1.2 meters from the right-of-way fence and wagon road. An iron pipe. (1,156.122 meters or 3,793.043 feet.)

L 20.—About 2.6 miles west of Dawn, Deaf Smith County, on the Atchison, Topeka & Santa Fe Railway right of way, on the south side of a road crossing at the ninth pole west of milepost 589, in line with a fence running south, 33 meters (108 feet) south of the center of the track, and 1 meter from the right-of-way fence. An iron pipe. (1,150.682 meters or 3,775.196.)

M 20.—At Joel, Deaf Smith County, on the Atchison, Topeka & Santa Fe Railway right of way, 30 meters (98 feet) north of the center of the track at the station sign and 1.5 meters from the fence. An iron pipe. (1,148.220 meters or 3,767.118 feet.)

N 20.—About 2 miles west of Joel, Deaf Smith County, on the top of the west end of the north retaining wall of the Atchison, Topeka & Santa Fe Railway double-arch bridge No. 595A, 12 inches from the north side and 18 inches from the west end of the wall, and 2.5 meters below the rail. A copper bolt. (1,147.858 meters or 3,765.931 feet.)

O 20.—At Hereford, Deaf Smith County, on top of the southeast corner of the southeast footing of the Hereford waterworks tanks, 0.1 mile east of the Atchison, Topeka & Santa Fe Railway depot, and 95 meters (312 feet) south of main-line track. A copper bolt. (1,162.046 meters or 3,812.470 feet.)

P 20.—At Hereford, Deaf Smith County, on the south face of the concrete basement entrance to Deaf Smith County Courthouse, 1.3 meters above sidewalk, and 0.3 meter from the east side of the door. A brass disk. (1,165.212 meters or 3,822.866 feet.)

Q 20.—At Hereford, Deaf Smith County, at the southwest corner of the Atchison, Topeka & Santa Fe Railway depot, in the south face of the limestone water table, in the brick corner pier, 1.3 meters above the brick flagging. A copper bolt. (1,164.261 meters or 3,819.746 feet.)

R 20.—About 3.8 miles west of Hereford, Deaf Smith County, at the eighth pole west of milepost 603 of the Atchison, Topeka & Santa Fe Railway, 51

meters (167 feet) west of a road crossing, 1 meter from the fence between the right of way and a parallel road, and 32 meters (105 feet) from the center of the track. An iron pipe. (1,177.518 meters or 3,863.240 feet.)

S 20.—At Summerfield, Castro County, on the Atchison, Topeka & Santa Fe Railway right of way, 1 meter from the north right-of-way fence, at the station sign. An iron pipe. (1,199.459 meters or 3,935.225 feet.)

T 20.—About 1.9 miles west of Summerfield, Castro County, on the top of the east end of the south head wall of the Atchison, Topeka & Santa Fe Railway cast-iron culvert 609A. A brass disk. (1,197.516 meters or 3,928.850 feet.)

U 20.—About 2.8 miles west of Summerfield, Castro County, 14 meters (46 feet) north of the center of the Atchison, Topeka & Santa Fe Railway track, at milepost 610. A stone post with square hole in top. (1,198.874 meters or 3,933.308 feet.)

V 20.—At Black, Parmer County, just outside the Atchison, Topeka & Santa Fe Railway right of way, on the north side of a wagon road, 19 meters (62 feet) south of the track, at a semaphore 200 meters (656 feet) west of the station sign. A stone post with square hole in top. (1,217.421 meters or 3,994.155 feet.)

W 20.—About 3.8 miles east of Friona, Parmer County, just outside the Atchison, Topeka & Santa Fe Railway right of way, at milepost 613, on the north side of a wagon road paralleling the railroad. An iron pipe. (1,220.450 meters or 4,004.093 feet.)

X 20.—At Friona, Parmer County, on the Atchison, Topeka & Santa Fe Railway right of way, 50 meters (164 feet) north of the track at the station, 300 meters (984 feet) east of the east stone gatepost, and 0.4 meter from the fence. A stone post with square hole in top. (1,220.957 meters or 4,005.758 feet.)

Y 20.—About 2.9 miles west of Friona, Parmer County, halfway between the ninth and tenth telegraph poles east of milepost 623 of the Atchison, Topeka & Santa Fe Railway, at the west end of a long fill, in the wagon road 25 meters (82 feet) south of the center of the track, and just west of the point where the right of way narrows. An iron pipe. (1,252.429 meters or 4,109.011 feet.)

Z 20.—At Parmerton, Parmer County, at the station sign, at milepost 628 of the Atchison, Topeka & Santa Fe Railway, 18 meters (59 feet) south of the center of the track, on the north side of a wagon road just off the right of way. A stone post with square hole in top. (1,272.994 meters or 4,176.481 feet.)

A 21.—About 2 miles west of Parmerton, Parmer County, 18 meters (59 feet) south of the center of the Atchison, Topeka & Santa Fe Railway at a pole marked 630, just off the right of way on the north side of a wagon road. An iron pipe. (1,258.247 meters or 4,128.098 feet.)

B 21.—At Bovina, Parmer County, in range with the east end of the Atchison, Topeka & Santa Fe Railway depot, just off the right of way, about 40 meters (131 feet) north of the main-line track, in the edge of a locust plantation belonging to XIT ranch. A stone post with square hole in top. (1,240.315 meters or 4,069.267 feet.)

C 21.—About 1.5 miles west of Bovina, Parmer County, on the Atchison, Topeka & Santa Fe Railway bridge No. 635B, which is a 48-inch cast-iron pipe culvert, on top of the north concrete head wall 10 inches from the west end. A brass disk. (1,234.690 meters or 4,050.812 feet.)

D 21.—About 4 miles west of Bovina, Parmer County, on the Atchison, Topeka & Santa Fe Railway right of way, 15 meters (49 feet) north of the center of the track, and 4 poles west of the pole marked 638. An iron pipe. (1,245.149 meters or 4,085.126 feet.)

E 21.—At Wilsey, Parmer County, on the Atchison, Topeka & Santa Fe Railway right of way, 14 meters (46 feet) south of the center of the main-line track, 20 meters (66 feet) east of the station sign, and 2 meters west of the pole marked 641. An iron pipe. (1,270.591 meters or 4,168.597 feet.)

F 21.—About 2 miles west of Wilsey, Parmer County, 18 meters (59 feet) south of the center of the Atchison, Topeka & Santa Fe Railway track, at the pole marked 743, 9 meters west of a rail marking the exact mile, 1 meter off the right of way, and 20 meters (66 feet) north of a wagon road. A stone post with square hole in top. (1,259.535 meters or 4,132.423 feet.)

LINE XII, CLOVIS, N. MEX., TO PECOS, TEX.

This is the Texas portion of a line which follows the Atchison, Topeka & Santa Fe Railway from Clovis, N. Mex., to Pecos, Tex.

The field work was done by O. W. Ferguson, assistant, between September 16, 1916, and January 10, 1917.

Monument.—On the **New Mexico-Texas State Line**, about 6 miles north of **Angeles**, **Reeves County**, 90 meters (295 feet) east of the **Atchison, Topeka & Santa Fe Railway**. The top and center of the brass plate of boundary monument No. 24. (874.009 meters or 2,867.478 feet.)

G 21.—About 4.4 miles north of **Angeles**, **Reeves County**, a cross cut on the top of milepost 219 of the **Atchison, Topeka & Santa Fe Railway**. (875.222 meters or 2,871.457 feet.)

H 21.—About 2.4 miles north of **Angeles**, **Reeves County**, on the western right-of-way line of the **Atchison, Topeka & Santa Fe Railway**, opposite milepost 221. A concrete post with disk in top. (883.059 meters or 2,897.169 feet.)

I 21.—About 0.4 mile north of **Angeles**, **Reeves County**, a cross cut in the top of milepost 223 of the **Atchison, Topeka & Santa Fe Railway**. (881.541 meters or 2,892.189 feet.)

J 21.—About 1.6 miles south of **Angeles**, **Reeves County**, on the western right-of-way line of the **Atchison, Topeka & Santa Fe Railway**, opposite milepost 225. A concrete post with disk in top. (871.851 meters or 2,860.398 feet.)

K 21.—About 3.6 miles south of **Angeles**, **Reeves County**, a cross cut on the top of milepost 227 of the **Atchison, Topeka & Santa Fe Railway**. (870.106 meters or 2,854.878 feet.)

L 21.—About 1.6 miles north of **Orla**, **Reeves County**, on the western right-of-way line of the **Atchison, Topeka & Santa Fe Railway**, opposite milepost 229. A concrete post with disk in top. (874.331 meters or 2,868.534 feet.)

M 21.—At **Orla**, **Reeves County**, on east face of the large cement cistern about 300 meters (984 feet) south of the **Atchison, Topeka & Santa Fe Railway** depot. A brass disk. (871.971 meters or 2,860.791 feet.)

N 21.—About 0.3 mile south of **Orla**, **Reeves County**, a cross cut on the top of milepost 231 of the **Atchison, Topeka & Santa Fe Railway**. (871.977 meters or 2,860.811 feet.)

O 21.—About 2.1 miles south of **Orla**, **Reeves County**, on the western right-of-way line of the **Atchison, Topeka & Santa Fe Railway** at the seventh telegraph pole south of milepost 233. A concrete post with disk in top. (849.309 meters or 2,786.441 feet.)

P 21.—About 4.2 miles south of **Orla**, **Reeves County**, a cross cut on the top of milepost 235 of the **Atchison, Topeka & Santa Fe Railway**. (843.325 meters or 2,768.809 feet.)

Q 21.—About 6.3 miles south of **Orla**, **Reeves County**, on the western right-of-way line of the **Atchison, Topeka & Santa Fe Railway**, 90 meters (295 feet) south of milepost 237. A concrete post with disk in top. (833.073 meters or 2,733.174 feet.)

R 21.—About 2.2 miles north of **Riverton**, **Reeves County**, a cross cut on the top of milepost 239 of the **Atchison, Topeka & Santa Fe Railway**. (832.410 meters or 2,730.998 feet.)

S 21.—About 0.2 mile north of **Riverton**, **Reeves County**, on the western right-of-way line of the **Atchison, Topeka & Santa Fe Railway**, 30 meters (98 feet) south of milepost 241. A concrete post with disk in top. (823.394 meters or 2,717.823 feet.)

T 21.—About 1.8 miles south of **Riverton**, **Reeves County**, a cross cut on the top of milepost 243 of the **Atchison, Topeka & Santa Fe Railway**. (827.810 meters or 2,715.907 feet.)

U 21.—About 3.9 miles south of **Riverton**, **Reeves County**, on the western right-of-way line of the **Atchison, Topeka & Santa Fe Railway**, 100 meters (525 feet) south of milepost 245. A concrete post with disk in top. (822.634 meters or 2,698.925 feet.)

V 21.—About 0.3 mile north of **Dixieland**, **Reeves County**, a cross cut on the top of milepost 247 of the **Atchison, Topeka & Santa Fe Railway**. (819.260 meters or 2,687.855 feet.)

W 21.—About 1.9 miles south of **Dixieland**, **Reeves County**, on the western right-of-way line of the **Atchison, Topeka & Santa Fe Railway**, opposite milepost 249. A concrete post with disk in top. (814.954 meters or 2,673.728 feet.)

X 21.—About 0.4 mile north of **Arno**, **Reeves County**, a cross cut on the top of milepost 251 of the **Atchison, Topeka & Santa Fe Railway**. (814.481 meters or 2,672.176 feet.)

Y 21.—At **Arno**, **Reeves County**, on the south side of the large cement cistern at the section house 125 meters (410 feet) north of the **Atchison, To-**

peka & Santa Fe Railway depot. A brass disk. (814.431 meters or 2,672.012 feet.)

Z 21.—About 1.8 miles south of **Arno**, Reeves County, on the western right-of-way line of the Atchison, Topeka & Santa Fe Railway, 280 meters (919 feet) south of milepost 253. A concrete post with disk in top. (816.858 meters or 2,679.975 feet.)

A 22.—About 3.7 miles south of **Arno**, Reeves County, a cross cut on the top of milepost 255 of the Atchison, Topeka & Santa Fe Railway. (810.647 meters or 2,659.598 feet.)

B 22.—About 5.7 miles south of **Arno**, Reeves County, on the western right-of-way line of the Atchison, Topeka & Santa Fe Railway, 50 meters (164 feet) south of milepost 257. A concrete post with disk on top. (804.981 meters or 2,640.943 feet.)

C 22.—About 7.7 miles south of **Arno**, Reeves County, a cross cut on the top of milepost 259 of the Atchison, Topeka & Santa Fe Railway. (802.514 meters or 2,632.915 feet.)

D 22.—At **Patrole**, Reeves County, 125 meters (410 feet) south of the sign-board at the eleventh telegraph pole south of milepost 261 of the Atchison, Topeka & Santa Fe Railway. A concrete post with disk in top. (796.557 meters or 2,613.371 feet.)

E 22.—About 1.6 miles south of **Patrole**, Reeves County, a cross cut on the top of an iron post marking the eastern right-of-way line at milepost 263 of the Atchison, Topeka & Santa Fe Railway. (794.621 meters or 2,607.019 feet.)

F 22.—About 3.6 miles south of **Patrole**, Reeves County, in line with the telegraph poles directly west of milepost 265 of the Atchison, Topeka & Santa Fe Railway. A concrete post with disk in top. (793.976 meters or 2,604.906 feet.)

G 22.—About 4.5 miles north of **Pecos**, Reeves County, a cross cut on the top of milepost 267 of the Atchison, Topeka & Santa Fe Railway. (798.785 meters or 2,620.680 feet.)

H 22.—About 2.5 miles north of **Pecos**, Reeves County, in line with the telegraph poles directly west of milepost 269 of the Atchison, Topeka & Santa Fe Railway. A concrete post with disk in top. (789.009 meters or 2,588.607 feet.)

I 22.—About 0.5 mile north of **Pecos**, Reeves County, a cross cut on the top of milepost 271 of the Atchison, Topeka & Santa Fe Railway. (788.167 meters or 2,585.845 feet.)

J 22.—At **Pecos**, Reeves County, on the north face of the northeast pillar of the Texas & Pacific Railway depot. A brass disk. (789.086 meters or 2,588.860 feet.)

K 22.—At **Pecos**, Reeves County, in the main square, one block south of the Texas & Pacific Railway depot, on the top of the heavy cement rim of the watering tank. A brass disk. (788.458 meters or 2,586.799 feet.)

For other bench marks at **Pecos**, Reeves County, see pages 56 and 57.

LINE XIII, SIERRA BLANCA TO SAN ANTONIO, TEX.

This line follows the Southern Pacific Railroad from Sierra Blanca to San Antonio, Tex. From Spofford a spur line extends to Eagle Pass, Tex., over the Southern Pacific Railroad. The field work was done by J. D. Powell and O. W. Swainson, hydrographic and geodetic engineers, between April 30 and September 18, 1917.

For additional bench marks at Sierra Blanca, see page 60.

Q 22.—At **Sierra Blanca**, Hudspeth County, about 75 meters (246 feet) west of the Southern Pacific Railroad station, opposite milepost 737, and 20 meters (66 feet) north of the track. A concrete post with disk in top. (1,377.849 meters or 4,520.493 feet.)

R 22.—About 1 mile east of **Sierra Blanca**, Hudspeth County, at milepost 736 of the Southern Pacific Railroad, about 30 meters (98 feet) south of the track. A concrete post with disk in top. (1,363.074 meters or 4,472.019 feet.)

S 22.—About 1.8 miles west of **Villa**, Hudspeth County, at milepost 784 of the Southern Pacific Railroad, 3 telegraph poles east of bridge No. 734A, and about 30 meters (98 feet) north of the track. A concrete post with disk in top. (1,344.412 meters or 4,410.792 feet.)

T 22.—About 0.2 mile east of Villa, Hudspeth County, at milepost 732 of the Southern Pacific Railroad, and the second telegraph pole west of the east end of a side track, about 30 meters (98 feet) north of the track. A concrete post with disk in top. (1,329.059 meters or 4,360.421 feet.)

U 22.—About 2.2 miles east of Villa, Hudspeth County, at milepost 730 of the Southern Pacific Railroad, about 30 meters (98 feet) north of the track. A concrete post with disk in top. (1,323.839 meters or 4,343.295 feet.)

V 22.—About 1 mile west of Grayton, Hudspeth County, at milepost 728 of the Southern Pacific Railroad, about 30 meters (98 feet) north of the track. A concrete post with disk in top. (1,313.095 meters or 4,308.046 feet.)

W 22.—About 1 mile east of Grayton, Hudspeth County, at milepost 726 of the Southern Pacific Railroad, about 30 meters (98 feet) north of the track. A concrete post with disk in top. (1,315.770 meters or 4,316.822 feet.)

X 22.—About 1.4 miles west of Bola, Hudspeth County, at milepost 724 of the Southern Pacific Railroad, about 30 meters (98 feet) north of the track. A concrete post with disk in top. (1,330.119 meters or 4,363.899 feet.)

Y 22.—About 0.6 mile east of Bola, Hudspeth County, at milepost 722 of the Southern Pacific Railroad. A concrete post with disk in top. (1,334.216 meters or 4,377.340 feet.)

Z 22.—About 2 miles west of Torbert, Hudspeth County, at milepost 720 of the Southern Pacific Railroad. A concrete post with disk in top. (1,328.610 meters or 4,358.948 feet.)

A 23.—At Torbert, Hudspeth County, at milepost 718 of the Southern Pacific Railroad. A concrete post with disk in top. Reported destroyed in 1921. (1,325.027 meters or 4,349.161 feet.)

B 23.—About 2 miles east of Torbert, Hudspeth County, at milepost 716 of the Southern Pacific Railroad. A concrete post with disk in top. (1,318.593 meters or 4,326.084 feet.)

C 23.—About 0.2 mile west of Hot Wells, Hudspeth County, at milepost 714 of the Southern Pacific Railroad. A concrete post with disk in top. (1,306.398 meters or 4,286.074 feet.)

D 23.—About 1.8 miles east of Hot Wells, Hudspeth County, at milepost 712 of the Southern Pacific Railroad, about 30 meters (98 feet) north of the track. A concrete post with disk in top. (1,296.784 meters or 4,254.532 feet.)

E 23.—About 1.2 miles west of Dalberg, Hudspeth County, at milepost 710 of the Southern Pacific Railroad, about 15 meters (49 feet) north of the track. A concrete post with disk in top. (1,283.145 meters or 4,209.785 feet.)

F 23.—About 0.8 mile east of Dalberg, Hudspeth County, at milepost 708 of the Southern Pacific Railroad, about 20 meters (66 feet) north of the track. A concrete post with disk in top. Reported destroyed in 1921. (1,271.389 meters or 4,171.215 feet.)

G 23.—About 2.2 miles east of Dalberg, Hudspeth County (west of Collado, Culberson County), at milepost 706 of the Southern Pacific Railroad, about 15 meters (49 feet) north of the track. A concrete post with disk in top. (1,262.650 meters or 4,142.544 feet.)

H 23.—At west end of sidetrack at Collado, Culberson County, at milepost 704 of the Southern Pacific Railroad, about 15 meters (49 feet) north of the track. A concrete post with disk in top. (1,265.542 meters or 4,152.032 feet.)

I 23.—About 1.8 miles east of Collado, Culberson County, about 10 meters (33 feet) west of milepost 702 of the Southern Pacific Railroad, and 15 meters (49 feet) north of the track, in bedrock. A square cut. (1,239.496 meters or 4,066.580 feet.)

J 23.—At Fay, Culberson County, at milepost 700 of the Southern Pacific Railroad, about 75 meters (246 feet) east of the section foreman's house and 30 meters (98 feet) north of the track. A concrete post with disk in top. (1,223.525 meters or 4,014.182 feet.)

P 22 (U. S. G. S.)—At Fay, Culberson County, 800 feet east of section foreman's house and 45.7 meters (150 feet) east of station signpost, on west side of the gate entrance to Van Horn Road; an iron post. (1,223.891 meters or 4,015.382 feet.)

K 23.—About 2 miles east of Fay, Culberson County, at milepost 698 of the Southern Pacific Railroad, about 15 meters (49 feet) north of the track. A concrete post with disk in top. (1,206.279 meters or 3,937.600 feet.)

L 23.—About 0.5 mile west of Lobo, Culberson County, at milepost 696 of the Southern Pacific Railroad, about 30 meters (98 feet) north of the track. A concrete post with disk in top. (1,200.932 meters or 3,937.105 feet.)

M 23.—At Lobo, Culberson County, 9 telegraph poles west of milepost 695 of the Southern Pacific Railroad, about 10 meters (33 feet) east of the water tank and 20 meters (66 feet) north of the track. A concrete post with disk in top. (1,201.676 meters or 3,942.469 feet.)

N 23.—About 1.5 miles east of Lobo, Culberson County, at milepost 694 of the Southern Pacific Railroad, about 30 meters (98 feet) north of the track. A concrete post with disk in top. (1,205.600 meters or 3,955.373 feet.)

O 23.—About 2.2 miles west of Danube, Culberson County, at milepost 692 of the Southern Pacific Railroad, about 20 meters (66 feet) south of the track. A concrete post with disk in top. (1,213.341 meters or 3,980.770 feet.)

P 23.—About 0.2 mile west of Danube, Culberson County, at milepost 690 of the Southern Pacific Railroad, about 20 meters (66 feet) south of the track. A concrete post with disk in top. (1,233.046 meters or 4,045.418 feet.)

Q 23.—About 1.8 miles east of Danube, Culberson County, at milepost 688 of the Southern Pacific Railroad, about 20 meters (66 feet) south of the track. A concrete post with disk in top. (1,239.104 meters or 4,065.294 feet.)

R 23.—About 1.8 miles west of Chispa, Jeff Davis County, at milepost 686 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A concrete post with disk in top. (1,242.380 meters or 4,076.042 feet.)

S 23.—About 0.2 mile east of Chispa, Jeff Davis County, at milepost 684 of the Southern Pacific Railroad, about 25 meters (82 feet) north of the track. A concrete post with disk in top. (1,246.053 meters or 4,088.092 feet.)

T 23.—About 2.2 miles east of Chispa, Jeff Davis County, at milepost 682 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A concrete post with disk in top. (1,256.367 meters or 4,121.931 feet.)

U 23.—About 3.7 miles west of Wendell, Jeff Davis County, at milepost 680 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A concrete post with disk in top. (1,265.517 meters or 4,151.950 feet.)

V 23.—About 1.7 miles west of Wendell, Jeff Davis County, at milepost 678 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A concrete post with disk in top. (1,271.075 meters or 4,170.185 feet.)

W 23.—About 0.3 mile east of Wendell, Jeff Davis County, at milepost 676 of the Southern Pacific Railroad, about 15 meters (49 feet) north of the track. A concrete post with disk in top. (1,289.216 meters or 4,229.703 feet.)

X 23.—About 1.6 miles west of Rubio, Jeff Davis County, at milepost 674 of the Southern Pacific Railroad. A concrete post with disk in top. (1,304.302 meters or 4,279.197 feet.)

Y 23.—About 0.4 mile east of Rubio, Jeff Davis County, at milepost 672 of the Southern Pacific Railroad. A concrete post with disk in top. (1,319.740 meters or 4,329.847 feet.)

Z 23.—About 2.2 miles west of Valentine (about the same distance east of Rubio), Jeff Davis County, at milepost 670 of the Southern Pacific Railroad, about 15 meters (49 feet) north of the track. A concrete post with disk in top. (1,333.833 meters or 4,376.084 feet.)

A 24.—At Valentine, Jeff Davis County, 2 telegraph poles east of milepost 668 of the Southern Pacific Railroad, about 60 meters (197 feet) west of the Van Noy Lunch Room and 35 meters (115 feet) north of the track. A concrete post with disk in top. (1,350.064 meters or 4,429.335 feet.)

B 24.—About 1.8 miles east of Valentine, Jeff Davis County, at milepost 666 of the Southern Pacific Railroad, about 25 meters (82 feet) north of the track. A concrete post with disk in top. (1,360.877 meters or 4,464.811 feet.)

C 24.—About 3.8 miles east of Valentine, Jeff Davis County, at milepost 664 of the Southern Pacific Railroad, about 20 meters (66 feet) north of the track, on top of a dike. A concrete post with disk in top. Reported destroyed in 1921. (1,377.091 meters or 4,518.006 feet.)

D 24.—About 1.9 miles west of Quebec, Presidio County, at milepost 662 of the Southern Pacific Railroad, about 30 meters (98 feet) north of the track. A concrete post with disk in top. (1,395.132 meters or 4,577.196 feet.)

E 24.—About 0.3 mile east of Quebec, Presidio County, at milepost 660 of the Southern Pacific Railroad, about 30 meters (98 feet) south of the track. A concrete post with disk in top. (1,400.140 meters or 4,623.153 feet.)

F 24.—About 2.3 miles east of Quebec, Presidio County, at milepost 658 of the Southern Pacific Railroad, about 30 meters (98 feet) north of the track. A concrete post with disk in top. (1,421.817 meters or 4,664.745 feet.)

G 24.—About 3.8 miles west of Ryan, Presidio County, at milepost 656 of the Southern Pacific Railroad, about 30 meters (98 feet) north of the track. A concrete post with disk in top. (1,432.328 meters or 4,699.223 feet.)

H 24.—About 1.8 miles west of **Ryan**, Presidio County, at milepost 654 of the Southern Pacific Railroad, about 15 meters (49 feet) north of the track. A concrete post with disk in top. (1,441.579 meters or 4,729.580 feet.)

I 24.—At the east end of the sidetrack at **Ryan**, Presidio County, at milepost 652 of the Southern Pacific Railroad, about 30 meters (98 feet) north of the track. A concrete post with disk in top. (1,449.314 meters or 4,754.958 feet.)

J 24.—About 2.2 miles east of **Ryan**, Presidio County, at milepost 650 of the Southern Pacific Railroad, about 30 meters (98 feet) north of the track. A concrete post with disk in top. (1,468.871 meters or 4,819.121 feet.)

K 24.—About 0.4 mile west of **Conejo**, Presidio County, about 0.17 mile west of the west switch of **Conejo** passing tracks, at milepost 648 of the Southern Pacific Railroad and 15 meters (49 feet) north of the track. A concrete post with disk in top. (1,492.472 meters or 4,898.552 feet.)

L 24.—About 1.6 miles east of **Conejo**, Presidio County, at milepost 646 of the Southern Pacific Railroad, about 15 meters (49 feet) north of the track. A concrete post with disk in top. (1,491.767 meters or 4,894.239 feet.)

M 24.—About 1.7 miles west of **Aragon**, Presidio County, at milepost 644 of the Southern Pacific Railroad, about 15 meters (49) feet north of the track. A concrete post with disk in top. (1,489.852 meters or 4,887.956 feet.)

N 24.—About 0.3 mile east of **Aragon**, Presidio County, at milepost 642 of the Southern Pacific Railroad, about 15 meters (49 feet) north of the track, at the east end of the sidetrack at **Aragon**. A concrete post with disk in top. (1,493.251 meters or 4,899.108 feet.)

O 24.—About 2.3 miles east of **Aragon**, Presidio County, at milepost 640 of the Southern Pacific Railroad. A concrete post with disk in top. Post broken off in 1921. (1,488.503 meters or 4,883.530 feet.)

P 24.—About 1.3 miles west of **Galgo**, Presidio County, at milepost 638 of the Southern Pacific Railroad. A concrete post with disk in top. (1,475.403 meters or 4,840.551 feet.)

Q 24.—About 0.7 mile east of **Galgo**, Presidio County, at milepost 636 of the Southern Pacific Railroad, about 20 meters (66 feet) north of the track. A concrete post with disk in top. (1,463.373 meters or 4,801.083 feet.)

R 24.—About 1.2 miles west of **Marfa**, Presidio County, at milepost 634 of the Southern Pacific Railroad. A concrete post with disk in top. Post broken off in 1921. (1,440.508 meters or 4,720.067 feet.)

S 24 (U. S. G. S.).—At **Marfa**, Presidio County, at the front entrance of **Murphy & Walker's** brick storehouse across the street and south of the Southern Pacific Railroad depot. An iron post. (1,430.166 meters or 4,692.202 feet.)

T 24 (U. S. G. S.).—At **Marfa**, Presidio County, in the southeast cornerstone of the county courthouse. A disk. (1,431.984 meters or 4,698.101 feet.)

U 24.—At **Marfa**, Presidio County, in southwest corner of the park, about 3 meters north of tracks of the Southern Pacific Railroad. A concrete post with disk in top. (1,430.442 meters or 4,693.042 feet.)

V 24.—About 0.8 mile east of **Marfa**, Presidio County, at milepost 632 of the Southern Pacific Railroad, about 15 meters (49 feet) north of the track. A concrete post with disk in top. (1,435.361 meters or 4,709.180 feet.)

W 24.—About 2.8 miles east of **Marfa**, Presidio County, at milepost 630 of the Southern Pacific Railroad, about 25 meters (82 feet) north of the track. A concrete post with disk in top. (1,457.784 meters or 4,782.746 feet.)

X 24.—About 1.7 miles west of **Nopal**, Presidio County, at milepost 628 of the Southern Pacific Railroad, about 20 meters (66 feet) north of the track. A concrete post with disk in top. (1,470.134 meters or 4,823.265 feet.)

YY 24 (U. S. G. S.).—At **Nopal**, Presidio County 10 feet east of the gate and 100 feet south of the tracks of the Southern Pacific Railroad at **Nopal** siding. An iron post stamped "4808 Marfa." (1,466.134 meters or 4,810.141 feet.)

Y 24.—About 0.3 mile east of **Nopal**, Presidio County, at milepost 626 of the Southern Pacific Railroad, about 15 meters (49 feet) north of the track. A concrete post with disk in top. (1,471.647 meters or 4,823.228 feet.)

Z 24.—About 2.3 miles east of **Nopal**, Presidio County, at milepost 624 of the Southern Pacific Railroad, about 15 meters (49 feet) north of the track. A concrete post with disk in top. (1,493.279 meters or 4,899.199 feet.)

A 25.—About 4.3 miles east of **Nopal**, Presidio County, at milepost 622 of the Southern Pacific Railroad, about 22 meters (72 feet) north of the track. A concrete post with disk in top. (1,510.647 meters or 4,956.181 feet.)

BB 25 (U. S. G. S.).—About 1.5 miles west of **Faisano**, Presidio County, about 20 meters (66 feet) north of the public road and 46 meters (150 feet) south of

the track of the Southern Pacific Railroad, in the limestone outcrop. A disk stamped "4999 Marfa." (1,524,956 meters or 5,003.126 feet.)

B 25.—About 0.6 mile west of Paisano, Presidio County, at milepost 620 of the Southern Pacific Railroad, about 35 meters (115 feet) north of the track. A concrete post with disk in top. (1,539,382 meters or 5,050.456 feet.)

C 25.—About 1.4 miles east of Paisano, Presidio County, at milepost 618 of the Southern Pacific Railroad, about 28 meters (92 feet) north of the track. A concrete post with disk in top. (1,527,048 meters or 5,009.990 feet.)

D 25.—About 3.4 miles east of Paisano, Presidio County, about 3 meters (10 feet) east of milepost 616 of the Southern Pacific Railroad and south of the track. A concrete post with disk in top. (1,493.110 meters or 4,898.045 feet.)

E 25.—About 1.6 miles west of Toronto, Brewster County, at milepost 614 of the Southern Pacific Railroad, about 20 meters (66 feet) north of the track. A concrete post with disk in top. (1,465.722 meters or 4,808.790 feet.)

F 25.—About 0.4 mile east of Toronto, Brewster County, at milepost 612 of the Southern Pacific Railroad, about 5 meters south of the track, in the rock outcrop. A brass disk. (1,438,000 meters or 4,717.888 feet.)

GG 25 (U. S. G. S.).—About 3.8 miles west of Alpine, Brewster County, 20 feet south of public road, 5 feet east of gate and 50 feet north of the track of the Southern Pacific Railroad. An iron post stamped "4005 Marfa." (1,423,240 meters or 4,669.413 feet.)

G 25.—About 2.8 miles west of Alpine, Brewster County, at milepost 610 of the Southern Pacific Railroad, about 25 meters (82 feet) north of the track. A concrete post with disk in top. (1,409,030 meters or 4,622.793 feet.)

H 25.—About 0.8 mile west of Alpine, Brewster County, at milepost 608 of the Southern Pacific Railroad, about 30 meters (98 feet) north of the track. A concrete post with disk in top. (1,377.724 meters or 4,520.083 feet.)

I 25.—At Alpine, Brewster County, in the northeast corner of yard of the Ritchie Hotel, about 50 meters (164 feet) south of the tracks of the Southern Pacific Railroad. A concrete post with disk in top. (1,367.512 meters or 4,486.579 feet.)

J 25. (U. S. G. S.).—At Alpine, Brewster County, at the east entrance to the county courthouse, in the north end of the third step. A disk stamped "4476 Marfa." (1,365,669 meters or 4,480.532 feet.)

K 25.—About 1.2 miles east of Alpine, Brewster County, at milepost 606 of the Southern Pacific Railroad, about 15 meters (49 feet) north of the track. A concrete post with disk in top. (1,366,115 meters or 4,481.906 feet.)

L 25.—About 3.2 miles east of Alpine, Brewster County, at milepost 604 of the Southern Pacific Railroad, about 20 meters (66 feet) north of the track. A concrete post with disk in top. (1,372,368 meters or 4,502.511 feet.)

M 25.—About 1.8 miles west of Strobel, Brewster County, at milepost 602 of the Southern Pacific Railroad, about 15 meters (49 feet) north of the track. A concrete post with disk in top. (1,368,513 meters or 4,489.863 feet.)

N 25.—About 0.2 mile east of Strobel, Brewster County, at milepost 600 of the Southern Pacific Railroad, about 10 meters (33 feet) north of the track. A concrete post with disk in top. (1,354,730 meters or 4,444.643 feet.)

O 25.—About 2.2 miles east of Strobel, Brewster County, at milepost 598 of the Southern Pacific Railroad, about 20 meters (66 feet) north of the track. A concrete post with disk in top. (1,363,522 meters or 4,473.488 feet.)

P 25.—About 4.2 miles east of Strobel, Brewster County, at milepost 596 of the Southern Pacific Railroad, about 20 meters (66 feet) north of the track. A concrete post with disk in top. (1,385.791 meters or 4,546.549 feet.)

Q 25.—About 6.2 miles east of Strobel, Brewster County, at milepost 594 of the Southern Pacific Railroad, about 12 meters (39 feet) north of the track. A concrete post with disk in top. (1,401.120 meters or 4,596.841 feet.)

R 25.—About 0.5 mile west of Altuda, Brewster County, at milepost 592 of the Southern Pacific Railroad, about 25 meters (82 feet) north of the track. A concrete post with disk in top. (1,412.237 meters or 4,633.314 feet.)

S 25.—About 1.5 miles east of Altuda, Brewster County, at milepost 590 of the Southern Pacific Railroad, about 15 meters (49 feet) north of the track. A concrete post with disk in top. (1,396,983 meters or 4,583.268 feet.)

T 25.—About 3.4 miles west of Lenox, Brewster County, at milepost 588 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A concrete post with disk in top. (1,366,009 meters or 4,481.648 feet.)

U 25.—About 1.4 miles west of Lenox, Brewster County, 6 meters (20 feet) east of milepost 586 of the Southern Pacific Railroad and 14 meters (46 feet)

south of the track. A concrete post with disk in top. (1,334.660 meters or 4,378.797 feet.)

V 25.—About 0.6 mile east of **Lenox**, Brewster County, 8 meters (26 feet) east of milepost 584 of the Southern Pacific Railroad and 13 meters (43 feet) south of the track. A concrete post with disk in top. (1,315.265 meters or 4,315.165 feet.)

W 25.—About 2.6 miles east of **Lenox**, Brewster County, 7 meters (23 feet) east of milepost 582 of the Southern Pacific Railroad and 14 meters (46 feet) south of the track. A concrete post with disk in top. (1,283.765 meters or 4,211.819 feet.)

X 25.—About 4.6 miles east of **Lenox**, Brewster County, at milepost 580 of the Southern Pacific Railroad, about 20 meters (66 feet) north of the track, in the sandstone rock by the north fence. A brass disk. (1,256.020 meters or 4,120.792 feet.)

Y 25.—About 2 miles west of **Marathon**, Brewster County, 5 meters east of milepost 578 of the Southern Pacific Railroad and 14 meters (46 feet) south of the track. A concrete post with disk in top. (1,230.912 meters or 4,067.945 feet.)

Z 25.—At **Marathon**, Brewster County, west of the Southern Pacific Railroad station, by the north fence of the railroad yard. A concrete post with disk in top. (1,232.829 meters or 4,044.706 feet.)

A 26.—About 2 miles east of **Marathon**, Brewster County, at milepost 574 of the Southern Pacific Railroad, about 15 meters (49 feet) north of the track. A concrete post with disk in top. (1,263.318 meters or 4,144.736 feet.)

B 26.—About 4 miles east of **Marathon**, Brewster County, at milepost 572 of the Southern Pacific Railroad, about 14 meters (46 feet) south of the track. A concrete post with disk in top. (1,262.436 meters or 4,141.842 feet.)

C 26.—About 2.6 miles west of **Warwick**, Brewster County, at milepost 570 of the Southern Pacific Railroad, about 12 meters (39 feet) north of the track. A concrete post with disk in top. (1,254.206 meters or 4,114.841 feet.)

D 26.—About 0.6 mile west of **Warwick**, Brewster County, at milepost 568 of the Southern Pacific Railroad, about 15 meters (49 feet) north of the track. A concrete post with disk in top. (1,242.148 meters or 4,075.281 feet.)

E 26.—About 1.4 miles east of **Warwick**, Brewster County, at milepost 566 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A concrete post with disk in top. (1,237.803 meters or 4,061.025 feet.)

F 26.—About 3.4 miles east of **Warwick**, Brewster County, at milepost 564 of the Southern Pacific Railroad, about 12 meters (39 feet) north of the track. A concrete post with disk in top. (1,221.863 meters or 4,008.729 feet.)

G 26.—About 1.6 miles west of **Haymond**, Brewster County, 16 meters (52 feet) east of milepost 562 of the Southern Pacific Railroad and 10 meters (33 feet) south of the track, in the gray rock outcrop. A brass disk. (1,198.930 meters or 3,933.489 feet.)

H 26.—About 0.4 mile east of **Haymond**, Brewster County, about 30 meters (98 feet) southwest of milepost 560 of the Southern Pacific Railroad and 6 meters north of the track, in a large rock. A brass disk. (1,180.478 meters or 3,872.952 feet.)

I 26.—About 2.4 miles east of **Haymond**, Brewster County, at milepost 558 of the Southern Pacific Railroad, about 14 meters (46 feet) north of the track. A concrete post with disk in top. (1,186.306 meters or 3,892.072 feet.)

J 26.—About 4.4 miles east of **Haymond**, Brewster County, at milepost 556 of the Southern Pacific Railroad, about 10 meters (33 feet) south of the track. A concrete post with disk in top. (1,177.795 meters or 3,864.149 feet.)

K 26.—About 2 miles west of **Tesnus**, Brewster County, at milepost 554 of the Southern Pacific Railroad, about 10 meters (33 feet) north of the track. A concrete post with disk in top. (1,158.646 meters or 3,794.763 feet.)

L 26.—At **Tesnus**, Brewster County, at milepost 552 of the Southern Pacific Railroad, about 15 meters (49 feet) north of the track. A concrete post with disk in top. (1,135.742 meters or 3,726.180 feet.)

M 26.—About 2.1 miles east of **Tesnus**, Brewster County, 220 meters (722 feet) east of milepost 550 of the Southern Pacific Railroad and 5 meters south of the track, in flat rock 20 meters (66 feet) east of bridge 549I. A brass disk. (1,105.159 meters or 3,625.842 feet.)

N 26.—About 0.4 mile east of **Maxon**, Brewster County, 6 meters east of milepost 548 of the Southern Pacific Railroad and 15 meters (49 feet) south of the track. A concrete post with disk in top. (1,073.375 meters or 3,521.564 feet.)

O 26.—About 2.4 miles east of **Maxon**, Brewster County, 30 meters (98 feet) west of milepost 546 of the Southern Pacific Railroad and 15 meters (49 feet) south of the track, in low rock outcrop by the fence. A brass disk. (1,051.444 meters or 3,449.612 feet.)

P 26.—About 4.4 miles east of **Maxon**, Brewster County, at milepost 544 of the Southern Pacific Railroad, about 12 meters (39 feet) north of the track. A concrete post with disk in top. (1,077.711 meters or 3,535.790 feet.)

Q 26.—About 1 mile west of **Rosenfeld**, Brewster County, at milepost 542 of the Southern Pacific Railroad, about 12 meters (39 feet) north of the track and 4 meters south of the fence in soft sandstone rock. A brass disk. (1,103.595 meters or 3,620.711 feet.)

R 26.—About 1 mile east of **Rosenfeld**, Brewster County, about 9 meters northeast of milepost 540 of the Southern Pacific Railroad and 12 meters (39 feet) south of the track. A concrete post with disk in top. (1,110.003 meters or 3,641.735 feet.)

S 26.—About 3 miles east of **Rosenfeld**, Brewster County, 13 meters (43 feet) south of milepost 538 of the Southern Pacific Railroad and 29 meters (95 feet) south of the track. A concrete post with disk in top. (1,030.778 meters or 3,575.373 feet.)

T 26.—About 5 miles east of **Rosenfeld**, Brewster County, 13 meters (43 feet) southeast of milepost 536 of the Southern Pacific Railroad and 22 meters (72 feet) south of the track. A concrete post with disk in top. (1,069.737 meters or 3,509.629 feet.)

U 26.—About 1.7 miles west of **Longfellow**, Pecos County, at milepost 534 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A concrete post with disk in top. (1,048.142 meters or 3,438.779 feet.)

V 26.—About 0.3 mile east of **Longfellow**, Pecos County, 8 meters west of milepost 532 of the Southern Pacific Railroad and 17 meters (56 feet) south of the track. A concrete post with disk in top. (1,024.266 meters or 3,360.446 feet.)

W 26.—About 2.3 miles east of **Longfellow**, Pecos County, 13 meters (43 feet) south of milepost 530 of the Southern Pacific Railroad and 28 meters (92 feet) south of the track. A concrete post with disk in top. (1,001.018 meters or 3,284.173 feet.)

X 26.—About 4.3 miles east of **Longfellow**, Pecos County, 15 meters (49 feet) south of milepost 528 of the Southern Pacific Railroad and 35 meters (115 feet) south of the track. A concrete post with disk in top. (981.928 meters or 3,221.542 feet.)

Y 26.—About 1.7 miles west of **Emerson**, Terrell County, 27 meters (80 feet) northeast of milepost 526 of the Southern Pacific Railroad and 28 meters (92 feet) east of the track. A concrete post with disk in top. (957.886 meters or 3,142.664 feet.)

Z 26.—About 0.3 mile east of **Emerson**, Terrell County, at milepost 524 of the Southern Pacific Railroad, about 29 meters (95 feet) north of the track. A concrete post with disk in top. (938.747 meters or 3,079.872 feet.)

A 27.—About 2.3 miles east of **Emerson**, Terrell County, 20 meters (66 feet) southeast of milepost 522 of the Southern Pacific Railroad and 30 meters (98 feet) south of the track. A concrete post with disk in top. (918.306 meters or 3,013.104 feet.)

B 27.—About 0.1 mile east of **Gavilan**, Terrell County, 19 meters (62 feet) south of milepost 520 of the Southern Pacific Railroad and 29 meters (95 feet) south of the track. A concrete post with disk in top. (894.316 meters or 2,934.102 feet.)

C 27.—About 2.1 miles east of **Gavilan**, Terrell County, 18 meters (59 feet) south of milepost 518 of the Southern Pacific Railroad and 26 meters (85 feet) south of the track. A concrete post with disk in top. (870.051 meters or 2,854.492 feet.)

D 27.—About 0.1 mile west of **Sanderson**, Terrell County, 25 meters (82 feet) southwest of milepost 516 of the Southern Pacific Railroad and 25 meters (82 feet) north of the track, in the railroad yards. A concrete post with disk in top. (847.244 meters or 2,779.666 feet.)

E 27.—At **Sanderson**, Terrell County, in the foundation of south wall of the Sanderson State Bank, 1.8 meters from the main entrance. A brass disk. (845.766 meters or 2,774.817 feet.)

F 27.—About 1.9 miles east of **Sanderson**, Terrell County, 13 meters (48 feet) south of milepost 514 of the Southern Pacific Railroad and 26 meters (85 feet)

south of the track. A concrete post with disk in top. (819.478 meters or 2,688.571 feet.)

G 27.—About 3.9 miles east of Sanderson, Terrell County, at milepost 512 of the Southern Pacific Railroad, about 23 meters (75 feet) south of the track. A concrete post with disk in top. (801.242 meters or 2,628.741 feet.)

H 27.—About 1.4 miles west of Feodora, Terrell County, at milepost 510 of the Southern Pacific Railroad, about 14 meters (46 feet) south of the track. A concrete post with disk in top. (771.803 meters or 2,530.517 feet.)

I 27.—About 0.6 mile east of Feodora, Terrell County, at milepost 508 of the Southern Pacific Railroad, about 30 meters (98 feet) north of the track. A concrete post with disk in top. (746.990 meters or 2,450.750 feet.)

J 27.—About 2.6 miles east of Feodora, Terrell County, 20 meters (66 feet) east of milepost 506 of the Southern Pacific Railroad and 9 meters north of the track, in a limestone rock. A brass disk. (726.574 meters or 2,383.768 feet.)

K 27.—About 4.6 miles east of Feodora, Terrell County, 10 meters (33 feet) east of milepost 504 of the Southern Pacific Railroad and 11 meters (36 feet) north of the track, in a flat limestone rock. A brass disk. (718.431 meters or 2,357.052 feet.)

L 27.—About 0.2 mile west of Mofeta, Terrell County, 35 meters (115 feet) east of milepost 502 of the Southern Pacific Railroad and 14 meters (46 feet) north of the track, in limestone rock. A brass disk. (723.508 meters or 2,374.004 feet.)

M 27.—About 1.8 miles east of Mofeta, Terrell County, at milepost 500 of the Southern Pacific Railroad, about 18 meters (43 feet) south of the track. A concrete post with disk in top. (695.188 meters or 2,280.796 feet.)

N 27.—About 3.8 miles east of Mofeta, Terrell County, at milepost 498 of the Southern Pacific Railroad, about 14 meters (46 feet) south of the track. A concrete post with disk in top. (677.473 meters or 2,222.676 feet.)

O 27.—About 1.2 miles west of Dryden, Terrell County, at milepost 496 of the Southern Pacific Railroad, about 13 meters (43 feet) south of the track. A concrete post with disk in top. (656.569 meters or 2,154.093 feet.)

P 27.—About 0.8 mile east of Dryden, Terrell County, at milepost 494 of the Southern Pacific Railroad, in the eastern abutment on the south side of bridge 494A. A brass disk. (638.223 meters or 2,093.903 feet.)

Q 27.—About 3.8 miles east of Dryden, Terrell County, near milepost 491 of the Southern Pacific Railroad, in the west abutment on the north side of bridge 491B. A brass disk. (618.797 meters or 2,013.766 feet.)

R 27.—About 2 miles west of Thurston, Terrell County, at milepost 490 of the Southern Pacific Railroad, about 14 meters (46 feet) south of the track. A concrete post with disk in top. (596.522 meters or 1,957.089 feet.)

S 27.—At Thurston, Terrell County, 12 meters (39 feet) south of milepost 488 of the Southern Pacific Railroad and 80 meters (98 feet) south of the track. A concrete post with disk in top. (582.736 meters or 1,911.860 feet.)

V 28.—About 4.6 miles west of Watkins, Terrell County, 2 telegraph poles west of milepost 485 of the Southern Pacific Railroad and 1 meter south of the track, on the west abutment of bridge 485A, also known as Meyers Canyon Bridge No. 2. A brass disk. (561.951 meters or 1,843.668 feet.)

W 28.—About 3.5 miles west of Watkins, Terrell County, at milepost 484 of the Southern Pacific Railroad, about 30 meters (98 feet) south of the track. A concrete post with disk in top. (553.194 meters or 1,814.937 feet.)

X 28.—About 1.5 miles west of Watkins, Terrell County, 1 telegraph pole west of milepost 482 of the Southern Pacific Railroad and 20 meters (66 feet) south of the track. A concrete post with disk in top. (532.733 meters or 1,747.808 feet.)

Y 28.—About 0.5 mile east of Watkins, Terrell County, at milepost 480 of the Southern Pacific Railroad, about 20 meters (66 feet) south of the track. A concrete post with disk in top. (516.875 meters or 1,695.125 feet.)

Z 28.—About 2.3 miles west of Malvado, Terrell County, 7 meters east of milepost 473 of the Southern Pacific Railroad and 20 meters (66 feet) south of the track. A concrete post with disk in top. (497.992 meters or 1,633.829 feet.)

A 29.—About 0.4 mile west of Malvado, Terrell County, halfway between the fourth and fifth telegraph poles west of milepost 476 of the Southern Pacific Railroad, about 3 meters south of the track, on the east abutment of bridge 476B, also known as Meyers Canyon Bridge No. 1. A brass disk. (488.468 meters or 1,602.582 feet.)

B 29.—About 1.7 miles east of Malvado, Terrell County, at milepost 474 of the Southern Pacific Railroad, about 20 meters (66 feet) south of the track. A concrete post with disk in top. (476.213 meters or 1,562.375 feet.)

C 29.—About 1.3 miles west of Lozier, Terrell County, 1 telegraph pole east of milepost 472 of the Southern Pacific Railroad and 10 meters (33 feet) south of the track, on a ledge of rock 2 meters below the track level. A brass disk. (462.319 meters or 1,516.792 feet.)

D 29.—At Lozier, Terrell County, halfway between the sixth and seventh telegraph poles east of milepost 471 of the Southern Pacific Railroad, about 30 meters (98 feet) west of the section house and 30 meters (98 feet) south of the track, on a large boulder. A brass disk. (459.244 meters or 1,506.703 feet.)

E 29.—About 1.1 miles east of Lozier, Terrell County, 10 telegraph poles west of milepost 469 of the Southern Pacific Railroad and 2 meters north of the track, in the second course of masonry on the west abutment of bridge 469D. An outlined square. (468.272 meters or 1,536.322 feet.)

F 29.—About 3.1 miles east of Lozier, Terrell County, 9 telegraph poles east of milepost 468 of the Southern Pacific Railroad and 2 meters south of the track, in the second course of masonry on the west abutment of bridge 467G. A brass disk. (489.584 meters or 1,606.243 feet.)

G 29.—About 2.8 miles west of Pumpville, Valverde County, a little east of milepost 466 of the Southern Pacific Railroad and 3 meters south of the track, in the second course of masonry on the west abutment of bridge 465G. A brass disk. (513.148 meters or 1,683.553 feet.)

H 29.—About 1.8 miles west of Pumpville, Valverde County, at milepost 465 of the Southern Pacific Railroad, about 3 meters south of the track, on the west abutment of bridge 464I. An outlined square. (529.215 meters or 1,736.266 feet.)

I 29.—About 0.8 mile west of Pumpville, Valverde County, at milepost 464 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A concrete post with disk in top. (544.937 meters or 1,787.847 feet.)

J 29.—About 0.9 mile east of Pumpville, Valverde County, between the fifth and sixth telegraph poles west of milepost 462 of the Southern Pacific Railroad and 3 meters south of the track, on the west abutment of bridge 462A. A brass disk. (555.532 meters or 1,822.608 feet.)

K 29.—About 1.2 miles west of Hijito, Valverde County, at milepost 460 of the Southern Pacific Railroad, about 20 meters (66 feet) north of the track. A concrete post with disk in top. (525.593 meters or 1,724.383 feet.)

L 29.—About 0.8 mile east of Hijito, Valverde County, halfway between the fourth and fifth telegraph poles east of milepost 458 of the Southern Pacific Railroad and 2 meters south of the track, on the east abutment of bridge 457E. A brass disk. (497.431 meters or 1,631.988 feet.)

M 29.—About 2 miles west of Osman, Valverde County, at milepost 456 of the Southern Pacific Railroad, about 20 meters (66 feet) north of the track, on the east slope of a mound in a ravine between two mounds. A concrete post with disk in top. (487.333 meters or 1,598.858 feet.)

N 29.—At Osman, Valverde County, at milepost 454 of the Southern Pacific Railroad, a little east of the freight house and 20 meters (66 feet) north of the track. A concrete post with disk in top. (473.969 meters or 1,555.013 feet.)

O 29.—About 1.6 miles west of Bean, Valverde County, 15 telegraph poles east of milepost 452 of the Southern Pacific Railroad and 3 meters south of the track, in the second course of masonry of the west abutment of bridge 451A. A brass disk. (448.910 meters or 1,472.799 feet.)

P 29.—About 0.4 mile west of Bean, Valverde County, at milepost 450 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A concrete post with disk in top. (437.398 meters or 1,435.030 feet.)

Q 29.—About 1.6 miles east of Bean, Valverde County, halfway between the first and second telegraph poles west of milepost 448 of the Southern Pacific Railroad and 2 meters south of the track, in the second course of masonry of the east abutment of bridge 448A. A brass disk. (421.210 meters or 1,381.920 feet.)

R 29.—About 3.1 miles west of Langtry, Valverde County, at milepost 446 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A concrete post with disk in top. (400.938 meters or 1,315.411 feet.)

S 29.—About 1.1 miles west of Langtry, Valverde County, at milepost 444 of the Southern Pacific Railroad, about 15 meters (49 feet) north of the track. A concrete post with disk in top. (398.649 meters or 1,307.901 feet.)

SX 29.—At Langtry, Valverde County, 1 telegraph pole west of milepost 443 of the Southern Pacific Railroad, 20 meters (66 feet) north of the track and 10 meters (33 feet) east of the gate to the section-house yard, in ledge rock. A brass disk. (398.692 meters or 1,308.042 feet.)

T 29.—About 1.1 miles east of Langtry, Valverde County, 5 telegraph poles east of milepost 442 of the Southern Pacific Railroad and 1 meter north of the track, in the west abutment of a bridge. A brass disk. (408.654 meters or 1,340.726 feet.)

U 29.—About 2.6 miles west of Dorso, Valverde County, 7 telegraph poles east of milepost 440 of the Southern Pacific Railroad and 3 meters south of the track, on the west abutment of bridge 439B. A brass disk. (432.233 meters or 1,418.084 feet.)

V 29.—About 1.1 miles west of Dorso, Valverde County, 5 telegraph poles west of milepost 438 of the Southern Pacific Railroad and 5 meters south of the track, in bed-rock 1.5 meters below the track level and a little west of sign "1 mile to Dorso." A brass disk. (446.869 meters or 1,466.103 feet.)

W 29.—About 1.1 miles east of Dorso, Valverde County, at milepost 436 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A concrete post with disk in top. (428.474 meters or 1,405.752 feet.)

X 29.—About 2.8 miles west of Shumla, Valverde County, at milepost 434 of the Southern Pacific Railroad, about 7 meters (23 feet) south of the track, in bedrock. A brass disk. (431.430 meters or 1,415.450 feet.)

Y 29.—About 0.8 mile west of Shumla, Valverde County, at milepost 432 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A concrete post with disk in top. (426.908 meters or 1,400.614 feet.)

Z 29.—About 1.2 miles east of Shumla, Valverde County, 10 meters (33 feet) west of milepost 430 of the Southern Pacific Railroad and 10 meters (33 feet) south of the track. A concrete post with disk in top. (435.215 meters or 1,427.868 feet.)

A 30.—About 3 miles east of Shumla, Valverde County, 5 telegraph poles west of milepost 428 of the Southern Pacific Railroad and 30 meters (98 feet) south of the track, near the east end of the Pecos High Bridge. A concrete post with disk in top. (421.567 meters or 1,383.091 feet.)

B 30.—About 3 miles east of Shumla, Valverde County, 5 telegraph poles west of milepost 428 of the Southern Pacific Railroad and 12 meters (39 feet) south of the track, in bedrock near the east end of the Pecos High Bridge. A brass disk. (421.567 meters or 1,383.091 feet.)

C 30.—About 2.3 miles west of Viaduct, Valverde County, 4 telegraph poles east of milepost 426 of the Southern Pacific Railroad and 3 meters north of the track, in bedrock. A brass disk. (458.304 meters or 1,503.619 feet.)

D 30.—About 0.1 mile west of Viaduct, Valverde County, at milepost 424 of the Southern Pacific Railroad, about 20 meters (66 feet) north of the track. A concrete post with disk in top. (472.236 meters or 1,549.328 feet.)

E 30.—About 1.0 miles east of Viaduct, Valverde County, at milepost 422 of the Southern Pacific Railroad, about 20 meters (66 feet) south of the track. A concrete post with disk in top. (487.266 meters or 1,598.639 feet.)

F 30.—About 1 mile west of Rona, Valverde County, at milepost 420 of the Southern Pacific Railroad, about 30 meters (98 feet) south of the track. A concrete post with disk in top. (489.715 meters or 1,606.673 feet.)

G 30.—About 1 mile east of Rona, Valverde County, at milepost 418 of the Southern Pacific Railroad, about 30 meters (98 feet) north of the track. A concrete post with disk in top. (493.912 meters or 1,620.443 feet.)

H 30.—About 2.5 miles west of Comstock, Valverde County, 10 telegraph poles east of milepost 417 of the Southern Pacific Railroad and 2 meters south of the track, on the concrete foundation of block signal No. 4166. The bottom of a square hole. (474.218 meters or 1,555.830 feet.)

H 30 A.—About 2.2 miles west of Comstock, Valverde County, a little east of milepost 416 of the Southern Pacific Railroad, about 20 meters (66 feet) south of the track and 3 meters inside the private-property line. A concrete post with disk in top. (463.018 meters or 1,519.085 feet.)

I 30.—About 0.2 mile west of Comstock, Valverde County, a little east of milepost 414 of the Southern Pacific Railroad and 20 meters (66 feet) south of the track. A concrete post with disk in top. (470.165 meters or 1,542.533 feet.)

J 30.—About 1.8 miles east of Comstock, Valverde County, at milepost 412 of the Southern Pacific Railroad, about 20 meters (66 feet) north of the track. A concrete post with disk in top. (461.962 meters or 1,515.620 feet.)

K 30.—About 1.3 miles west of Cabra, Valverde County, 3 telegraph poles west of milepost 410 of the Southern Pacific Railroad and 15 meters (49 feet) north of the track. A concrete post with disk in top. (450.207 meters or 1,477.054 feet.)

L 30.—About 0.8 mile east of Cabra, Valverde County, at milepost 408 of the Southern Pacific Railroad, about 18 meters (59 feet) south of the track. A concrete post with disk in top. (419.465 meters or 1,376.195 feet.)

M 30.—About 2.1 miles west of Feely, Valverde County, at milepost 406 of the Southern Pacific Railroad, about 20 meters (66 feet) south of the track. A concrete post with disk in top. (401.107 meters or 1,315.965 feet.)

N 30.—About 0.1 mile east of Feely, Valverde County, at milepost 404 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A concrete post with disk in top. (377.486 meters or 1,238.469 feet.)

O 30.—About 2.1 miles east of Feely, Valverde County, at milepost 402 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A concrete post with disk in top. (366.685 meters or 1,203.032 feet.)

P 30.—About 1 mile west of Bullis, Valverde County, 4 telegraph poles east of milepost 400 of the Southern Pacific Railroad and 2 meters south of the track, on the west abutment of the bridge. A brass disk. (354.041 meters or 1,161.550 feet.)

Q 30.—About 0.8 mile east of Bullis, Valverde County, at milepost 398 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A concrete post with disk in top. (332.538 meters or 1,091.002 feet.)

R 30.—About 2.6 miles west of Devils River, Valverde County, 4 telegraph poles east of milepost 396 of the Southern Pacific Railroad and 1 foot south of the track, on the west abutment of Castle Canyon bridge No. 2. A brass disk. (301.870 meters or 990.885 feet.)

S 30.—About 1.5 miles west of Devils River, Valverde County, 21 telegraph poles west of milepost 394 of the Southern Pacific Railroad and 3 meters south of the track, on the east abutment of Devils River bridge. A brass disk. (295.096 meters or 968.161 feet.)

T 30.—About 1.3 miles east of Devils River, Valverde County, at milepost 392 of the Southern Pacific Railroad, about 8 meters north of the track, in ledge rock. A brass disk. (290.474 meters or 952.997 feet.)

U 30.—About 2.7 miles west of McKees, Valverde County, at milepost 390 of the Southern Pacific Railroad, about 20 meters (66 feet) south of the track. A concrete post with disk in top. (284.734 meters or 934.165 feet.)

V 30.—About 0.7 mile west of McKees, Valverde County, at milepost 388 of the Southern Pacific Railroad and 2 meters north of the track, in ledge rock. A brass disk. (286.645 meters or 940.484 feet.)

W 30.—About 1.3 miles east of McKees, Valverde County, at milepost 386 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A concrete post with disk in top. (279.548 meters or 917.150 feet.)

X 30.—About 3.3 miles east of McKees, Valverde County, at milepost 384 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A concrete post with disk in top. (283.060 meters or 928.673 feet.)

Y 30.—About 3.5 miles west of Del Rio, Valverde County, at milepost 382 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A concrete post with disk in top. (277.260 meters or 909.644 feet.)

Z 30.—About 1.5 miles west of Del Rio, Valverde County, at milepost 380 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A concrete post with disk in top. (288.939 meters or 947.961 feet.)

G 32.—At Del Rio, Valverde County, on the south side of the entrance to the United States post office, in the coping of the stone steps. A brass disk. (292.812 meters or 960.667 feet.)

H 32.—At Del Rio, Valverde County, in the coping of the stone steps of the county courthouse. A brass disk. (292.583 meters or 959.916 feet.)

A 31.—About 1 mile east of Del Rio, Valverde County, 17 telegraph poles east of milepost 378 of the Southern Pacific Railroad and 1 meter north of the track, on the northeast corner of the west abutment of bridge 477B. An outlined square. (294.398 meters or 965.871 feet.)

B 31.—About 2.5 miles west of Johnstone, Valverde County, 1 telegraph pole east of milepost 376 of the Southern Pacific Railroad and 15 meters (49 feet)

south of the track. A concrete post with disk in top. (805.617 meters or 1,002.678 feet.)

C 31.—About 3.9 miles west of Johnstone, Valverde County, at milepost 374 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A concrete post with disk in top. (819.354 meters or 1,047.747 feet.)

D 31.—About 1.9 miles west of Johnstone, Valverde County, at milepost 372 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A concrete post with disk in top. (823.808 meters or 1,062.360 feet.)

E 31.—About 0.1 mile east of Johnstone, Valverde County, at milepost 370 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A concrete post with disk in top. (830.874 meters or 1,085.542 feet.)

F 31.—About 2.1 miles east of Johnstone, Valverde County, at milepost 368 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A concrete post with disk in top. (829.080 meters or 1,079.657 feet.)

G 31.—About 1.7 miles west of Amanda, Kinney County, a little west of milepost 366 of the Southern Pacific Railroad and 3 meters south of the track, on the east abutment of the Sycamore River bridge. A brass disk. (823.638 meters or 1,061.802 feet.)

H 31.—About 0.3 mile east of Amanda, Kinney County, 1 telegraph pole west of the east switch at Amanda, 30 meters (98 feet) north of the track of the Southern Pacific Railroad (across the highway from the railroad) and 1 meter inside the private-property line. A concrete post with disk in top. (828.538 meters or 1,077.878 feet.)

I 31.—About 2.4 miles west of Standart, Kinney County, at milepost 362 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A concrete post with disk in top. (828.529 meters or 1,077.849 feet.)

J 31.—About 0.5 mile west of Standart, Kinney County, halfway between the third and fourth telegraph poles west of milepost 360 of the Southern Pacific Railroad and 15 meters (49 feet) south of the track. A concrete post with disk in top. (830.661 meters or 1,084.844 feet.)

K 31.—About 1.6 miles east of Standart, Kinney County, at milepost 358 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A concrete post with disk in top. (824.055 meters or 1,063.170 feet.)

L 31.—About 2.2 miles east of Standart, Kinney County, halfway between the nineteenth and twentieth telegraph poles east of milepost 358 of the Southern Pacific Railroad and 1 meter south of the track, on the west abutment of bridge 357B. An outlined square. (823.171 meters or 1,060.270 feet.)

M 31.—About 2.1 miles west of Pinto, Kinney County, halfway between the second and third telegraph poles west of milepost 356 of the Southern Pacific Railroad and 1 meter south of the track, on the east abutment of bridge No. 356A over Pinto Creek. A brass disk. (812.494 meters or 1,025.241 feet.)

N 31.—At Pinto, Kinney County, at milepost 354 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track, 1 telegraph pole east of the Pinto station board. A concrete post with disk in top. (822.599 meters or 1,058.394 feet.)

O 31.—About 2 miles east of Pinto, Kinney County, at milepost 352 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A concrete post with disk in top. (822.150 meters or 1,056.920 feet.)

P 31.—About 1.2 miles west of Kinney, Kinney County, at milepost 350 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A concrete post with disk in top. (815.407 meters or 1,034.798 feet.)

Q 31.—About 0.8 mile east of Kinney, Kinney County, at milepost 348 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A concrete post with disk in top. (810.459 meters or 1,018.564 feet.)

R 31.—About 2.8 miles east of Kinney, Kinney County, 1 telegraph pole west of milepost 346 of the Southern Pacific Railroad and 15 meters (49 feet) south of the track. A concrete post with disk in top. (813.905 meters or 1,029.870 feet.)

S 31.—About 2.3 miles west of Spofford, Kinney County, 1 telegraph pole west of milepost 344 of the Southern Pacific Railroad and 15 meters (49 feet) south of the track. A concrete post with disk in top. (812.363 meters or 1,024.811 feet.)

T 31.—About 0.3 mile west of Spofford, Kinney County, at milepost 342 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A concrete post with disk in top. (806.927 meters or 1,006.978 feet.)

Y 32.—About 0.3 mile east of **Spofford**, Kinney County, about halfway between mileposts 341 and 342 of the Southern Pacific Railroad. A concrete post with disk in top. (808.134 meters or 1,010.936 feet.)

U 81.—About 1.7 miles east of **Spofford**, Kinney County, at milepost 340 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A concrete post with disk in top. (293.574 meters or 963.167 feet.)

Spur line, Spofford to Eagle Pass.

I 32.—About 2 miles south of **Spofford**, Kinney County, at milepost 2 of the Southern Pacific Railroad, about 15 meters (49 feet) east of the track. A concrete post with disk in top. (298.357 meters or 978.860 feet.)

J 32.—About 4 miles south of **Spofford**, Kinney County, at milepost 4 of the Southern Pacific Railroad, about 20 meters (66 feet) east of the track. A concrete post with disk in top. (293.949 meters or 964.308 feet.)

K 32.—At **Nora**, Maverick County, at milepost 6 of the Southern Pacific Railroad, about 20 meters (66 feet) east of the track, at the north end of the **Nora** sidetrack. A concrete post with disk in top. (288.868 meters or 947.728 feet.)

L 32.—About 2 miles south of **Nora**, Maverick County, halfway between the second and third telegraph poles north of milepost 8 of the Southern Pacific Railroad, about 15 meters (49 feet) east of the track and 1 meter from the right-of-way fence line. A concrete post with disk in top. (284.853 meters or 934.555 feet.)

M 32.—About 2 miles north of **Darling**, Maverick County, 2 telegraph poles south of milepost 10 of the Southern Pacific Railroad and 15 meters (49 feet) east of the track. A concrete post with disk in top. (280.951 meters or 921.753 feet.)

N 32.—At **Darling**, Maverick County, a little north of milepost 12 of the Southern Pacific Railroad and 15 meters (49 feet) east of the track. A concrete post with disk in top. (280.102 meters or 918.968 feet.)

O 32.—About 2 miles south of **Darling**, Maverick County, near the second telegraph pole north of milepost 14 of the Southern Pacific Railroad, about 15 meters (49 feet) east of the track and 1 meter from the right-of-way fence line, on railroad property. A concrete post with disk in top. (269.800 meters or 885.464 feet.)

P 32.—About 3.9 miles south of **Darling**, Maverick County, 4 telegraph poles north of milepost 16 of the Southern Pacific Railroad and 15 meters (49 feet) east of the track. A concrete post with disk in top. (262.929 meters or 862.626 feet.)

Q 32.—About 1.6 miles north of **Paloma**, Maverick County, at milepost 18 of the Southern Pacific Railroad, about 15 meters (49 feet) east of the track. A concrete post with disk in top. (253.800 meters or 832.675 feet.)

R 32.—About 0.4 mile south of **Paloma**, Maverick County, at milepost 20 of the Southern Pacific Railroad, about 15 meters (49 feet) east of the track. A concrete post with disk in top. (248.654 meters or 815.792 feet.)

S 32.—About 2.4 miles south of **Paloma**, Maverick County, at milepost 22 of the Southern Pacific Railroad, about 15 meters (49 feet) east of the track. A concrete post with disk in top. (241.632 meters or 792.754 feet.)

T 32.—About 3.4 miles north of **Olmos**, Maverick County, halfway between the second and third telegraph poles south of milepost 24 of the Southern Pacific Railroad and 15 meters (49 feet) east of the track. A concrete post with disk in top. (236.356 meters or 775.445 feet.)

U. S. 120.—About 0.8 mile north of **Olmos**, Maverick County, near milepost 26 of the Southern Pacific Railroad and on the north end of bridge 26A which is over **Elm Creek**, the easternmost of three rivets on the east side of the track at the extreme north end of the steel work, lettered "U. S. B. M. 120." (232.067 meters or 761.373 feet.)

U 32.—About 0.8 mile south of **Olmos**, Maverick County, at milepost 28 of the Southern Pacific Railroad, about 15 meters (49 feet) east of the track. A concrete post with disk in top. (238.083 meters or 781.111 feet.)

V 32.—About 2.6 miles south of **Olmos**, Maverick County, a little south of milepost 30 of the Southern Pacific Railroad and 15 meters (49 feet) east of the track. A concrete post with disk in top. (238.486 meters or 786.029 feet.)

W 32.—About 1.2 miles north of **Eagle Pass**, Maverick County, one-quarter of the way between the second and third telegraph poles north of milepost 32

of the Southern Pacific Railroad and 15 meters (49 feet) east of the track. A concrete post with disk in top. (235.949 meters or 774.109 feet.)

X 32.—At **Eagle Pass**, Maverick County, at the corner of Main and Madison Streets, in the concrete pavement of the vestibule porch of the Main Street entrance to the county courthouse. A brass disk. (224.085 meters or 737.154 feet.)

End of spur line.

V 31.—About 3.7 miles east of **Spofford**, Kinney County, at milepost 338 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A concrete post with disk in top. (289.187 meters or 948.774 feet.)

W 31.—About 2.4 miles west of **Anacacho**, Kinney County, a little west of milepost 336 of the Southern Pacific Railroad and 15 meters (49 feet) south of the track. A concrete post with disk in top. (292.832 meters or 960.733 feet.)

X 31.—About 1 mile west of **Anacacho**, Kinney County, 14 telegraph poles east of milepost 335, 18 telegraph poles west of milepost 334 of the Southern Pacific Railroad and 1 meter south of the track, on the west abutment of bridge No. 334B over Elm Creek. An outlined square. (293.190 meters or 961.908 feet.)

Y 31.—About 0.9 mile east of **Anacacho**, Kinney County, 9 telegraph poles east of milepost 333 of the Southern Pacific Railroad and 2 meters north of the track, on the east abutment of bridge No. 332A over Elm Creek. An outlined square. (300.819 meters or 986.937 feet.)

Z 31.—About 0.7 mile west of **Pavo**, Kinney County, at milepost 330 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A concrete post with disk in top. (312.559 meters or 1,025.454 feet.)

A 32.—About 1.2 miles east of **Pavo**, Kinney County, 2 telegraph poles west of milepost 328 of the Southern Pacific Railroad, about 18 meters (59 feet) south of the track and 1 meter inside the private-property line. A concrete post with disk in top. (323.837 meters or 1,062.455 feet.)

B 32.—About 1.2 miles west of **Odlaw**, Kinney County, at milepost 326 of the Southern Pacific Railroad, about 23 meters (76 feet) south of the track and 3 meters inside the private-property line. A concrete post with disk in top. (333.499 meters or 1,110.539 feet.)

C 32.—About 0.8 mile east of **Odlaw**, Kinney County, a little east of milepost 324 of the Southern Pacific Railroad, about 20 meters (66 feet) south of the track and 1 meter inside the private-property line. A concrete post with disk in top. (327.506 meters or 1,074.493 feet.)

D 32.—About 2.8 miles east of **Odlaw**, Kinney County, a little east of milepost 322 of the Southern Pacific Railroad and 18 meters (59 feet) south of the track. A concrete post with disk in top. (312.994 meters or 1,026.881 feet.)

E 32.—About 0.6 mile west of **Cline**, Uvalde County, 1 telegraph pole west of milepost 320 of the Southern Pacific Railroad and 15 meters (49 feet) south of the track. A concrete post with disk in top. (302.479 meters or 992.383 feet.)

F 32.—About 1.4 miles east of **Cline**, Uvalde County, at milepost 318 of the Southern Pacific Railroad, about 30 meters (98 feet) south of the track and 10 meters (33 feet) inside the private-property line. A concrete post with disk in top. (309.192 meters or 1,014.407 feet.)

Z 32.—About 0.7 mile west of **Obi**, Uvalde County, a little to the east of milepost 314 of the Southern Pacific Railroad and 15 meters (49 feet) south of the track. A concrete post with disk in top. (324.463 meters or 1,064.509 feet.)

A 33.—About 1.3 miles east of **Obi**, Uvalde County, at milepost 312 of the Southern Pacific Railroad, about 20 meters (66 feet) south of the track and 3 meters inside the private-property line. A concrete post with disk in top. (300.580 meters or 986.153 feet.)

B 33.—About 2.5 miles west of **Hacienda**, Uvalde County, at milepost 310 of the Southern Pacific Railroad, about 25 meters (82 feet) south of the track and 2 meters inside the private-property line. A concrete post with disk in top. (291.236 meters or 955.497 feet.)

C 33.—About 0.3 mile west of **Hacienda**, Uvalde County, 1 telegraph pole east of milepost 308 of the Southern Pacific Railroad and 6 meters south of the track, on the west pier of the bridge over the Nueces River. An outlined square. (283.314 meters or 929.506 feet.)

D 33.—About 0.2 mile west of **Hacienda**, Uvalde County, 9 telegraph poles east of milepost 308 of the Southern Pacific Railroad, on the east abutment of the bridge over the Nueces River. A brass disk. (284.684 meters or 934.001 feet.)

E 33.—About 1.5 miles east of Hacienda, Uvalde County, at milepost 306 of the Southern Pacific Railroad, about 20 meters (66 feet) south of the track. A concrete post with disk in top. (294.657 meters or 966.720 feet.)

F 33.—About 3.1 miles east of Hacienda, Uvalde County, halfway between the second and third telegraph poles west of milepost 304 of the Southern Pacific Railroad and 20 meters (66 feet) south of the track. A concrete post with disk in top. (289.095 meters or 948.473 feet.)

G 33.—About 1.1 miles west of Sansom, Uvalde County, one-third of the way between the second and third telegraph poles west of milepost 302 of the Southern Pacific Railroad and 20 meters (66 feet) south of the track. A concrete post with disk in top. (281.214 meters or 922.616 feet.)

H 33.—At Sansom, Uvalde County, 1 telegraph pole east of milepost 301 of the Southern Pacific Railroad and 30 meters (98 feet) north of the track, on the southwest column supporting the water tank. An outlined square. (283.972 meters or 931.665 feet.)

I 33.—At Uvalde, Uvalde County, a magnetic station of this Survey in the southeast corner of the grounds of the county courthouse. A stone post lettered "U. S. O. & G. S. S. M." (275.678 meters or 904.454 feet.)

J 33 (U. S. G. S.).—At Uvalde, Uvalde County, at the north entrance to the county courthouse, in the top of the stone railing on the east side of the porch. An aluminum disk stamped "913." (276.464 meters or 907.032 feet.)

K 33.—At Uvalde, Uvalde County, in the stone steps of the United States post office, north of the entrance. A brass disk. (277.361 meters or 909.975 feet.)

L 33.—About 0.8 mile east of Sansom, Uvalde County, 6 telegraph poles west of milepost 300 of the Southern Pacific Railroad and 5 meters south of the track, on the west abutment of the bridge over the Leona River. A brass disk. (282.491 meters or 926.806 feet.)

M 33.—About 1.7 miles west of Ange, Uvalde County, a little to the west of milepost 298 of the Southern Pacific Railroad and 15 meters (49 feet) south of the track. A concrete post with disk in top. (297.503 meters or 976.058 feet.)

N 33.—At Ange, Uvalde County, 7 telegraph poles west of milepost 296 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track and halfway between the first and second telegraph poles east of the station signboard. A concrete post with disk in top. (307.502 meters or 1,008.863 feet.)

O 33 (U. S. G. S.).—About 1.3 miles east of Ange, Uvalde County, at milepost 295 of the Southern Pacific Railroad, about 12 meters (39 feet) south of the track. An iron post stamped "965." (292.212 meters or 958.690 feet.)

P 33.—About 2.3 miles east of Ange, Uvalde County, at milepost 294 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A concrete post with disk in top. (295.099 meters or 968.171 feet.)

Q 33.—About 1 mile west of Knippa, Uvalde County, 13 telegraph poles west of milepost 291 of the Southern Pacific Railroad and 3 meters south of the track, on the west abutment of the bridge over the West Frio River. A brass disk. (298.039 meters or 977.816 feet.)

R 33.—About 0.6 mile west of Knippa, Uvalde County, 1 telegraph pole east of milepost 291 of the Southern Pacific Railroad and 3 meters south of the track, on the west abutment of the bridge over the East Frio River. A brass disk. (298.842 meters or 980.451 feet.)

S 33 (U. S. G. S.).—About 0.8 mile east of Knippa, Uvalde County, 13 telegraph poles east of milepost 290 of the Southern Pacific Railroad and 15 meters (49 feet) south of the track. An iron post stamped "987." (299.020 meters or 981.035 feet.)

T 33.—About 2.4 miles east of Knippa, Uvalde County, a little to the west of milepost 288 of the Southern Pacific Railroad and 15 meters (49 feet) south of the track. A concrete post with disk in top. (299.187 meters or 981.583 feet.)

U 33.—About 1.1 miles west of Yucca, Uvalde County, at milepost 285 of the Southern Pacific Railroad, about 3 meters south of the track, on the west abutment of the bridge over the Blanco River. A brass disk. (288.445 meters or 946.340 feet.)

V 33.—At Yucca, Uvalde County, at milepost 284 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A concrete post with disk in top. (295.272 meters or 968.738 feet.)

W 33.—About 0.7 mile east of Yucca, Uvalde County, 7 telegraph poles west of milepost 283 of the Southern Pacific Railroad and 3 meters north of the

track, in the concrete foundation of block signal No. 1833. An outlined square. (291.974 meters or 957.918 feet.)

X 33.—About 1.9 miles east of Yucca, Uvalde County, 1 telegraph pole east of milepost 282 of the Southern Pacific Railroad and 15 meters (49 feet) north of the track. A concrete post with disk in top. (290.738 meters or 953.856 feet.)

Y 33.—About 1 mile west of Sabinal, Uvalde County, near milepost 280 of the Southern Pacific Railroad, on the east abutment of the bridge over Sabinal Creek. A brass disk. (282.940 meters or 928.279 feet.)

Z 33.—At Sabinal, Uvalde County, 8 meters (26 feet) north of the Southern Pacific Railroad track, on the southeast foundation pedestal of the water tank. An outlined square. (292.335 meters or 959.102 feet.)

A 34.—At Sabinal, Uvalde County, 50 meters (164 feet) south of the Southern Pacific Railroad track, in the front wall of the Rainey Co.'s store. A brass disk. (293.376 meters or 962.518 feet.)

B 34.—About 0.5 mile east of Sabinal, Uvalde County, at milepost 279 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A stone post with square hole in top. (288.843 meters or 947.646 feet.)

C 34.—About 2.6 miles east of Sabinal, Uvalde County, halfway between the third and fourth telegraph poles east of milepost 277 of the Southern Pacific Railroad and 15 meters (49 feet) south of the track. A stone post with square hole in top. (283.750 meters or 930.936 feet.)

D 34.—About 3.5 miles east of Sabinal, Uvalde County, at milepost 276 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A concrete post with disk in top. (298.069 meters or 981.511 feet.)

E 34.—About 3.1 mile west of Seco, Medina County, at milepost 275 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A stone post with square hole in top. (295.862 meters or 970.674 feet.)

F 34.—About 2.1 miles west of Seco, Medina County, a little east of milepost 274 of the Southern Pacific Railroad and 15 meters (49 feet) north of the track. A concrete post with disk in top. (299.715 meters or 983.315 feet.)

G 34 (U. S. G. S.)—About 1.4 miles west of Seco, Medina County, 6 telegraph poles west of milepost 273 of the Southern Pacific Railroad and 15 meters (49 feet) south of the track. An iron post stamped "1006." (304.674 meters or 999.585 feet.)

H 34.—About 1.1 miles west of Seco, Medina County, at milepost 273 of the Southern Pacific Railroad, about 15 meters (49 feet) north of the track. A stone post with square hole in top. (309.850 meters or 1,015.910 feet.)

I 34.—About 0.9 mile east of Seco, Medina County, near milepost 271 of the Southern Pacific Railroad and 15 meters (49 feet) south of the track. A stone post with square hole in top. (309.730 meters or 1,016.172 feet.)

P 34.—About 1 mile west of D'Hanis, Medina County, 3 telegraph poles east of milepost 268 of the Southern Pacific Railroad and 2 meters south of the track, on the west abutment of the bridge over the Seco River. A brass disk. (286.601 meters or 940.290 feet.)

Q 34.—At D'Hanis, Medina County, 1 telegraph pole east of milepost 267 of the Southern Pacific Railroad and 50 meters (164 feet) north of the track, at the east end of the front wall of the brick store of Roth & Koch. A brass disk. (270.017 meters or 885.881 feet.)

R 34.—About 0.8 mile east of D'Hanis, Medina County, in the front wall of the public school building. A brass disk. (270.184 meters or 886.429 feet.)

S 34.—About 2 miles east of D'Hanis, Medina County, at milepost 265 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track and 50 meters (164 feet) west of a road crossing. A stone post with square hole in top. (274.921 meters or 901.970 feet.)

T 34.—About 3 miles east of D'Hanis, Medina County, 1 telegraph pole west of milepost 264 of the Southern Pacific Railroad and 15 meters (49 feet) south of the track. A concrete post with disk in top. (272.881 meters or 893.637 feet.)

J 34 (U. S. G. S.)—About 3.8 miles east of D'Hanis, Medina County, halfway between the eighth and ninth telegraph poles west of milepost 263 of the Southern Pacific Railroad and 15 meters (49 feet) south of the track. An iron post stamped "904." (273.480 meters or 897.078 feet.)

U 34.—About 4 miles east of D'Hanis, Medina County, at milepost 263 of the Southern Pacific Railroad, about 15 meters (49 feet) north of the track. A stone post with square hole in top. (274.065 meters or 899.162 feet.)

K 34.—About 3.5 miles west of Hondo, Medina County, halfway between the first and second telegraph poles west of milepost 262 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track and 1 foot inside the

private-property line. A concrete post with disk in top. (274.882 meters or 901.842 feet.)

V 34.—About 2.5 miles west of Hondo, Medina County, a little east of milepost 261 of the Southern Pacific Railroad and 15 meters (49 feet) south of the track. A stone post with square hole in top. (275.998 meters or 905.503 feet.)

W 34.—About 1.5 miles west of Hondo, Medina County, at milepost 260 of the Southern Pacific Railroad, about 30 meters (98 feet) north of the track and 8 meters inside the private-property line. A concrete post with a disk in top. (273.703 meters or 897.974 feet.)

X 34.—About 0.5 mile west of Hondo, Medina County, at milepost 259 of the Southern Pacific Railroad. A stone post with square hole in top. No elevation available.

Y 34.—At Hondo, Medina County, in the southern part of the town, in the north wall of the high-school building. A brass disk. (269.990 meters or 885.792 feet.)

Z 34.—At Hondo, Medina County, in the east end of the south wall of the county courthouse building. A brass disk. (273.042 meters or 895.805 feet.)

A 35 (U. S. G. S.).—At Hondo, Medina County, a little west of the south entrance to the courthouse building and to the west of a stone column of the porch. An aluminum disk stamped "901." (272.685 meters or 894.634 feet.)

B 35.—At Hondo, Medina County, on the street facing the Southern Pacific Railroad track, on the concrete landing block in front of I. H. King's house. An outlined square. (270.240 meters or 886.612 feet.)

C 35.—About 1.5 miles east of Hondo, Medina County, at milepost 257 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track and 15 meters (49 feet) east of a road crossing. A stone post with square hole in top. (268.859 meters or 882.082 feet.)

D 35.—About 0.7 mile west of Quihi, Medina County, at milepost 255 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track and 15 meters (49 feet) east of a gate in the right-of-way fence. A stone post with square hole in top. (262.538 meters or 861.343 feet.)

E 35.—About 1 mile east of Quihi, Medina County, 9 telegraph poles west of milepost 253 of the Southern Pacific Railroad and 2 meters south of the track, on the east abutment of bridge No. 253B over Hondo River. A brass disk. (252.408 meters or 828.109 feet.)

F 35.—About 2.3 miles west of Dunlay, Medina County, at milepost 251 of the Southern Pacific Railroad, about 15 meters (49 feet) north of the track. A stone post with square hole in top. (274.113 meters or 899.319 feet.)

G 35.—About 0.3 mile west of Dunlay, Medina County, a little east of milepost 249 of the Southern Pacific Railroad, about 4 meters south of the track, and 20 meters (66 feet) east of a road crossing, on the south parapet of culvert No. 248C. A brass disk. (300.930 meters or 987.301 feet.)

H 35.—About 1.7 miles east of Dunlay, Medina County, a little east of milepost 247 of the Southern Pacific Railroad and 15 meters (49 feet) south of the track. A stone post with square hole in top. (285.599 meters or 937.003 feet.)

I 35.—About 3.1 miles east of Dunlay, Medina County, 17 telegraph poles west of milepost 245 of the Southern Pacific Railroad and 1 meter south of the track, on the east abutment of bridge No. 245A over the Francisco River. A brass disk. (263.888 meters or 865.773 feet.)

J 33 (U. S. G. S.).—About 3.9 miles east of Dunlay, Medina County, halfway between the sixth and seventh telegraph poles east of milepost 245 of the Southern Pacific Railroad and 15 meters (49 feet) south of the track. An iron post stamped "858." (259.496 meters or 851.363 feet.)

K 35.—About 2.1 miles west of Noonan, Medina County, halfway between the third and fourth telegraph poles east of milepost 243 of the Southern Pacific Railroad and 2 meters south of the track, on the east abutment of bridge No. 242E. A brass disk. (255.400 meters or 837.925 feet.)

L 35.—About 1.2 miles west of Noonan, Medina County, at milepost 242 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A concrete post with disk in top. (249.967 meters or 820.100 feet.)

M 35.—At Noonan, Medina County, at milepost 241 of the Southern Pacific Railroad, about 15 meters (49 feet) north of the track. A stone post with square hole in top. (238.851 meters or 783.630 feet.)

N 35.—About 0.9 mile east of Noonan, Medina County, halfway between the second and third telegraph poles west of milepost 240 of the Southern Pacific Railroad and 15 meters (49 feet) north of the track. A concrete post with disk in top. (235.454 meters or 772.485 feet.)

O 35.—About 2 miles east of Noonan, Medina County, at milepost 239 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A stone post with square hole in top. (249.491 meters or 818.538 feet.)

P 35.—About 2.9 miles east of Noonan, Medina County, 4 telegraph poles west of milepost 238 of the Southern Pacific Railroad and 15 meters (49 feet) south of the track. A concrete post with disk in top. (247.117 meters or 810.750 feet.)

Q 35.—About 2.9 miles west of Lacoste, Medina County, at milepost 237 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A stone post with square hole in top. (250.956 meters or 823.345 feet.)

R 35.—About 2.1 miles west of Lacoste, Medina County, a little west of milepost 236 of the Southern Pacific Railroad, about 12 meters (39 feet) north of the track and 10 meters (33 feet) east of a road crossing. A concrete post with disk in top. (238.786 meters or 783.417 feet.)

S 35.—About 0.9 mile west of Lacoste, Medina County, 1 telegraph pole east of milepost 235 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track and 50 meters (164 feet) east of a road crossing. A stone post with square hole in top. (223.703 meters or 733.932 feet.)

SU 35.—At Lacoste, Medina County, 8 telegraph poles west of milepost 234 of the Southern Pacific Railroad, on the southwest foundation pedestal of the water tank. An outlined square. (220.878 meters or 724.664 feet.)

U 35.—About 1 mile east of Lacoste, Medina County, 3 telegraph poles west of milepost 233 of the Southern Pacific Railroad and 15 meters (49 feet) south of the track. A stone post with square hole in top. (216.000 meters or 708.660 feet.)

T 35.—About 0.4 mile east of Idlewild, Bexar County, a little west of milepost 231 of the Southern Pacific Railroad and 15 meters (49 feet) north of the track. A stone post with square hole in top. (205.684 meters or 674.815 feet.)

V 35.—About 2.4 miles east of Idlewild, Bexar County, 1 telegraph pole west of milepost 229 of the Southern Pacific Railroad and 15 meters (49 feet) south of the track. A stone post with square hole in top. (199.388 meters or 654.159 feet.)

W 35.—About 0.5 mile west of Macdona, Bexar County, one-quarter of the way between the second and third telegraph poles west of milepost 227 of the Southern Pacific Railroad and 15 meters (49 feet) south of the track. A stone post with square hole in top. (192.866 meters or 632.761 feet.)

X 35 (U. S. G. S.).—About 0.7 mile east of Macdona, Bexar County, 4 telegraph poles east of milepost 226 of the Southern Pacific Railroad and 3 meters north of the track, on the west pier of bridge No. 225D. Stamped "U. S. G. S. 616 B. M." A copper bolt. (185.658 meters or 609.113 feet.)

Y 35.—About 0.8 mile east of Macdona, Bexar County, 6 telegraph poles east of milepost 226 of the Southern Pacific Railroad and 2 meters south of the track, on the east abutment of bridge 225D. A brass disk. (186.108 meters or 610.589 feet.)

Z 35.—About 1.2 miles east of Macdona, Bexar County, 11 telegraph poles west of milepost 225 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track, 10 meters (33 feet) west of a road crossing, and about one-eighth mile east of the bridge over the Medina River. A stone post with square hole in top. (186.696 meters or 612.518 feet.)

A 36.—About 3.3 miles east of Macdona, Bexar County, 10 telegraph poles west of milepost 223 and 19 telegraph poles east of milepost 224 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A stone post with square hole in top. (185.002 meters or 606.961 feet.)

B 36.—About 3.5 miles west of Withers, Bexar County, at milepost 222 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A concrete post with disk in top. (199.695 meters or 655.166 feet.)

C 36.—About 2.5 miles west of Withers, Bexar County, at milepost 221 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A stone post with square hole in top. (199.316 meters or 653.923 feet.)

D 36 (U. S. G. S.).—About 1.1 miles west of Withers, Bexar County, 18 telegraph poles west of milepost 219 of the Southern Pacific Railroad, about 10 meters (33 feet) north of the track and 1 meter west of the west fence line of the section-house yard. An iron post stamped "030." (191.591 meters or 628.578 feet.)

E 36.—About 1 mile west of Withers, Bexar County, 10 telegraph poles west of milepost 219 of the Southern Pacific Railroad and 2 meters south of the track, on the west abutment of bridge No. 219A. A brass disk. (189.478 meters or 621.646 feet.)

F 36.—At **Withers**, **Bexar County**, 13 telegraph poles west of milepost 218 of the Southern Pacific Railroad and 3 meters north of the track, on the north parapet of the concrete culvert No. 218A. An outlined square. (194.129 meters or 636.905 feet.)

G 36.—About 0.5 mile east of **Withers**, **Bexar County**, at milepost 218 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A concrete post with disk in top. (196.174 meters or 643.614 feet.)

H 36.—About 1.4 miles east of **Withers**, **Bexar County**, 3 telegraph poles west of milepost 217 of the Southern Pacific Railroad and 15 meters (49 feet) south of the track. A stone post with square hole in top. (202.815 meters or 665.402 feet.)

I 36.—About 1.9 miles west of **Alazan**, **Bexar County**, at milepost 216 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A concrete post with disk in top. (205.214 meters or 673.273 feet.)

J 36.—About 0.9 mile west of **Alazan**, **Bexar County**, at milepost 215 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track. A stone post with square hole in top. (204.030 meters or 669.888 feet.)

K 36.—About 1.1 miles east of **Alazan**, **Bexar County**, at milepost 213 of the Southern Pacific Railroad, about 15 meters (49 feet) south of the track and 35 meters (115 feet) west of a road crossing. A stone post with square hole in top. (195.678 meters or 641.987 feet.)

L 36.—About 3 miles west of **San Antonio**, **Bexar County**, halfway between the twelfth and thirteenth telegraph poles west of milepost 212 of the Southern Pacific Railroad and 12 meters (39 feet) south of the track. A concrete post with disk in top. (192.854 meters or 632.722 feet.)

M 36.—About 1.6 miles west of **San Antonio**, **Bexar County**, 1 telegraph pole west of milepost 211 of the Southern Pacific Railroad and 2 meters north of the track, on the east abutment of bridge No. 211A. A brass disk. (191.276 meters or 627.545 feet.)

For bench marks at **San Antonio**, see pages 87 and 88.

LINE XIV, NEW BRAUNFELS TO BROWNSVILLE TO POINT ISABEL, TEX.

This line follows the Missouri, Kansas & Texas Railway from **New Braunfels** to **San Antonio**, the **San Antonio & Aransas Pass Railway** from **San Antonio** to **Sinton**, the **St. Louis, Brownsville & Mexico Railway** from **Sinton** to **Brownsville**, and the **Rio Grande Railway** from **Brownsville** to **Point Isabel, Tex.** From **Robstown** a spur line follows the **Texas Mexican Railway** to **Corpus Christi, Tex.** The field work was done by **O. W. Swainson**, hydrographic and geodetic engineer, and **H. G. Avers**, mathematician, between August 9, 1917, and February 12, 1918.

For bench marks in **New Braunfels**, see pages 36, 37, and 87.

A 43.—About 1 mile south of **New Braunfels**, **Comal County**, 14 meters (46 feet) west of the Missouri, Kansas & Texas Railway and 1 meter from the west right-of-way fence, across the tracks from milepost 1004. A concrete post with disk in top. (196.014 meters or 643.089 feet.)

B 43.—About 3 miles south of **New Braunfels**, **Comal County**, 1 meter north-west of milepost 1006 of the Missouri, Kansas & Texas Railway and 6 meters east of the tracks. A concrete post with disk in top. (196.999 meters or 646.321 feet.)

C 43.—About 5 miles south of **New Braunfels**, **Comal County**, 11 meters (36 feet) south of milepost 1008 of the Missouri, Kansas & Texas Railway and 13 meters (43 feet) east of the tracks. A concrete post with disk in top. (202.688 meters or 664.986 feet.)

D 43.—About 7 miles south of **New Braunfels**, **Comal County**, 2 meters west of milepost 1010 of the Missouri, Kansas & Texas Railway and 9 meters east of the tracks. A concrete post with disk in top. (212.309 meters or 696.550 feet.)

E 43.—About 9 miles south of **New Braunfels**, **Comal County**, 11 meters (36 feet) west of the Missouri, Kansas & Texas Railway, across the tracks from

milepost 1012. A concrete post with disk in top. (221.496 meters or 726.691 feet.)

F 43.—About 11 miles south of New Braunfels, Comal County, 6 meters northwest of milepost 1014 of the Missouri, Kansas & Texas Railway and 11 meters (36 feet) east of the tracks. A concrete post with disk in top. (229.449 meters or 752.784 feet.)

G 43.—About 1 mile north of Luxello, Bexar County, and about 13 miles south of New Braunfels, Comal County, 4 meters northwest of milepost 1016 of the Missouri, Kansas & Texas Railway and 9 meters east of the tracks. A concrete post with disk in top. (239.133 meters or 784.556 feet.)

H 43.—About 1 mile south of Luxello, Bexar County, across the Missouri, Kansas & Texas Railway tracks from the sixth telegraph pole north of milepost 1018, and 11 meters (36 feet) west of the tracks. A concrete post with disk in top. (237.524 meters or 779.277 feet.)

I 43.—About 3 miles south of Luxello, Bexar County, across the Missouri, Kansas & Texas Railway tracks from milepost 1020, and 8 meters south of the tracks. A concrete post with disk in top. (272.682 meters or 894.624 feet.)

J 43.—About 10 miles north of San Antonio, Bexar County, 3 meters north-east from the seventh telegraph pole north of milepost 1022 of the Missouri, Kansas & Texas Railway, and 13 meters (43 feet) east of the tracks. A concrete post with disk in top. (245.250 meters or 804.624 feet.)

K 43.—About 8 miles north of San Antonio, Bexar County, 3 meters west of milepost 1024 of the Missouri, Kansas & Texas Railway, and 10 meters (33 feet) east of the tracks. A concrete post with disk in top. (228.838 meters or 750.779 feet.)

L 43.—About 6 miles north of San Antonio, Bexar County, at milepost 1026 of the Missouri, Kansas & Texas Railway, and 10 meters (33 feet) east of the tracks. A concrete post with disk in top. (224.756 meters or 737.387 feet.)

M 43.—About 4 miles north of San Antonio, Bexar County, at milepost 1028 of the Missouri, Kansas & Texas Railway, about 9 meters east of the tracks. A concrete post with disk in top. (218.776 meters or 701.863 feet.)

N 43.—About 2 miles north of San Antonio, Bexar County, in the northeast corner of the cement abutment of the Missouri, Kansas & Texas Railway bridge over the Salada River. A brass disk. (195.932 meters or 642.820 feet.)

O 43.—About 0.8 mile north of San Antonio, Bexar County, 12 meters (39 feet) south of the Missouri, Kansas & Texas Railway tracks, and 14 meters (46 feet) north of the Southern Pacific Railroad tracks, near milepost 1032. A concrete post with disk in top. (209.545 meters or 687.482 feet.)

P 43.—At San Antonio, Bexar County, in the south wall of the Southern Pacific Railroad station, 3 meters west of the main entrance. A brass disk. (202.629 meters or 664.792 feet.)

Q 43.—At San Antonio, Bexar County, near the San Antonio & Aransas Pass Railway freight depot, 10 meters (33 feet) north of the tracks and 7 meters from the west end of the depot. A concrete post with disk in top. (194.391 meters or 637.764 feet.)

R 43.—At San Antonio, Bexar County, in the new Missouri, Kansas & Texas Railway passenger station, south of the main entrance and in the south side of the sixth post of the train shed. A brass disk. (195.825 meters or 642.469 feet.)

S 43.—At San Antonio, Bexar County, in the International & Great Northern Railway depot, 1 meter from the lunch-room entrance. A brass disk. (200.907 meters or 659.142 feet.)

T 43.—At San Antonio, Bexar County, near the intersection of the Southern Pacific and the San Antonio & Aransas Pass Railways, 3 meters from the tower house. A concrete post with disk in top. (191.925 meters or 629.674 feet.)

U 43.—About 2 miles south of San Antonio, Bexar County, 8 meters west of the San Antonio & Aransas Pass Railway and across the tracks from milepost 236. A concrete post with disk in top. (183.092 meters or 600.694 feet.)

V 43.—About 4 miles south of San Antonio, Bexar County, 20 meters (66 feet) southwest of milepost 234 of the San Antonio & Aransas Pass Railway, and 7 meters west of the tracks. A concrete post with disk in top. (173.117 meters or 567.963 feet.)

Note.—It was reported that the mileposts along the San Antonio & Aransas Pass Railway were 1,200 to 1,400 feet north of their 1917 location.

W 43.—About 6 miles south of San Antonio, Bexar County, 11 meters (36 feet) south of the San Antonio & Aransas Pass Railway across the tracks from milepost 232. A concrete post with disk in top. (162.571 meters or 533.368 feet.)

X 43.—About 8 miles south of San Antonio, Bexar County, 5.1 meters north-east of milepost 230 of the San Antonio & Aransas Pass Railway. A concrete post with disk in top. (159.892 meters or 524.579 feet.)

Y 43.—About 1 mile north of Southton, Bexar County, 8.6 meters south of the San Antonio & Aransas Pass Railway, across the tracks from the third telegraph pole west of milepost 228. A concrete post with disk in top. (155.356 meters or 509.697 feet.)

Z 43.—About 0.5 mile south of Southton, Bexar County, 3 meters north of milepost 226 of the San Antonio & Aransas Pass Railway, and 11 meters (36 feet) east of the tracks. A concrete post with disk in top. (166.138 meters or 545.071 feet.)

A 44.—About 3 miles south of Southton, Bexar County, 12 meters (39 feet) west of the San Antonio & Aransas Pass Railway and across the tracks from milepost 224. A concrete post with disk in top. (162.246 meters or 532.302 feet.)

B 44.—At Elmendorf, Bexar County, 15 meters (49 feet) southeast of milepost 222 of the San Antonio & Aransas Pass Railway, and 27 meters (89 feet) east of the tracks. A concrete post with disk in top. (154.171 meters or 505.809 feet.)

C 44.—About 2 miles south of Elmendorf, Bexar County, 8 meters west of the San Antonio & Aransas Pass Railway, across the tracks from milepost 220. A concrete post with disk in top. (151.596 meters or 497.361 feet.)

D 44.—About 4 miles south of Elmendorf, Bexar County, 3 meters southeast of milepost 218 of the San Antonio & Aransas Pass Railway, and 10 meters (33 feet) east of the tracks. A concrete post with disk in top. (125.434 meters or 411.528 feet.)

E 44.—About 1 mile north of Calaveras, Wilson County, 3 meters east of milepost 216 of the San Antonio & Aransas Pass Railway, and 10 meters (33 feet) east of the tracks. A concrete post with disk in top. (123.499 meters or 405.180 feet.)

F 44.—About 1 mile south of Calaveras, Wilson County, in a concrete culvert 75 meters (246 feet) south of milepost 214 of the San Antonio & Aransas Pass Railway. A brass disk. (122.832 meters or 402.991 feet.)

G 44.—About 3 miles south of Calaveras, Wilson County, 40 meters (131 feet) south of milepost 212 of the San Antonio & Aransas Pass Railway, and 7 meters west of the tracks. A concrete post with disk in top. (124.407 meters or 408.159 feet.)

H 44.—About 2 miles north of Floresville, Wilson County, 5 meters north-east of milepost 210 of the San Antonio & Aransas Pass Railway, and 10 meters (33 feet) east of the tracks. A concrete post with disk in top. 129.245 meters or 424.031 feet.)

I 44.—At Floresville, Wilson County, 2 meters southeast of milepost 208 of the San Antonio & Aransas Pass Railway, and 7 meters east of the tracks. A concrete post with disk in top. (116.865 meters or 383.415 feet.)

J 44.—About 2 miles south of Floresville, Wilson County, 11 meters (36 feet) west of the San Antonio & Aransas Pass Railway and across the tracks from milepost 206. A concrete post with disk in top. (115.155 meters or 377.804 feet.)

K 44.—About 4 miles south of Floresville, Wilson County, 4 meters west of milepost 204 of the San Antonio & Aransas Pass Railway, and 5 meters east of the tracks. A concrete post with disk in top. (139.756 meters or 458.516 feet.)

L 44.—At Poth, Wilson County, 4 meters west of the San Antonio & Aransas Pass Railway and across the tracks from milepost 202. A concrete post with disk in top. (137.121 meters or 449.871 feet.)

M 44.—About 2 miles south of Poth, Wilson County, a little west of milepost 200 of the San Antonio & Aransas Pass Railway, and 8 meters east of the tracks. A concrete post with disk in top. (124.182 meters or 407.420 feet.)

NOTE.—It was reported that the mileposts along the San Antonio & Aransas Pass Railway were 1,200 to 1,400 feet north of their 1917 location.

N 44.—About 4 miles south of Poth, Wilson County, 3 meters east of milepost 198 of the San Antonio & Aransas Pass Railway, and 16 meters (52 feet) east of the tracks. A concrete post with disk in top. (105.788 meters or 347.073 feet.)

O 44.—About 3 miles porth of Falls City, Karnes County, 40 meters (131 feet) south of milepost 196 of the San Antonio & Aransas Pass Railway, and 10 meters (33 feet) east of the tracks. A concrete post with disk in top. (97.891 meters or 321.164 feet.)

P 44.—About 1 mile north of Falls City, Karnes County, a little east of milepost 194 of the San Antonio & Aransas Pass Railway, and 7 meters east of the tracks. A concrete post with disk in top. (91.366 meters or 299.757 feet.)

Q 44.—About 1.5 miles south of Falls City, Karnes County, in the southeast corner of the cement abutment of the San Antonio & Aransas Pass Railway bridge over the San Antonio River. A brass disk. (88.944 meters or 291.810 feet.)

R 44.—About 3 miles south of Falls City, Karnes County, 12 meters (39 feet) west of the San Antonio & Aransas Pass Railway and across the tracks from milepost 190. A concrete post with disk in top. (88.036 meters or 288.831 feet.)

S 44.—About 5 miles south of Falls City, Karnes County, 3 meters north of milepost 188 of the San Antonio & Aransas Pass Railway, and 8 meters east of the tracks. A concrete post with disk in top. (84.826 meters or 278.300 feet.)

T 44.—About 4 miles north of Karnes City, Karnes County, in the northwest abutment of the highway bridge near milepost 186 of the San Antonio & Aransas Pass Railway. A brass disk. (90.212 meters or 295.971 feet.)

U 44.—About 2 miles north of Karnes City, Karnes County, 13 meters (48 feet) west of the San Antonio & Aransas Pass Railway and across the tracks from and a little north of milepost 184. A concrete post with disk in top. (102.287 meters or 335.587 feet.)

V 44.—About 1 mile south of Karnes City, Karnes County, 5 meters east of milepost 182 of the San Antonio & Aransas Pass Railway, and 14 meters (46 feet) east of the tracks. A concrete post with disk in top. (115.233 meters or 378.060 feet.)

W 44.—About 4 miles north of Kenedy, Karnes County, 18 meters (59 feet) southeast of milepost 180 of the San Antonio & Aransas Pass Railway, and 18 meters (48 feet) east of the tracks. A concrete post with disk in top. (99.890 meters or 326.082 feet.)

X 44.—About 2 miles north of Kenedy, Karnes County, 6 meters southeast of milepost 178 of the San Antonio & Aransas Pass Railway, and 11 meters (36 feet) east of the tracks. A concrete post with disk in top. (98.640 meters or 323.621 feet.)

Y 44.—At Kenedy, Karnes County, at the corner of Main Avenue and Second Street, in the stone foundation of the First National Bank. A brass disk. (82.494 meters or 270.649 feet.)

Z 44.—About 1 mile south of Kenedy, Karnes County, 3 meters northeast of milepost 178c of the San Antonio & Aransas Pass Railway, and 14 meters (46 feet) east of the tracks. A concrete post with disk in top. (100.242 meters or 328.877 feet.)

A 45.—About 3 miles south of Kenedy, Karnes County, 11 meters (36 feet) west of the San Antonio & Aransas Pass Railway, across the tracks from milepost 180c. A concrete post with disk in top. (130.502 meters or 428.155 feet.)

B 45.—About 5 miles south of Kenedy, Karnes County, 11 meters (36 feet) west of the San Antonio & Aransas Pass Railway, across the tracks from milepost 182c. A concrete post with disk in top. (148.322 meters or 486.620 feet.)

C 45.—About 7 miles south of Kenedy, Karnes County, 16.5 meters (54 feet) north of milepost 184 of the San Antonio & Aransas Pass Railway, and 13 meters (43 feet) east of the tracks. A concrete post with disk in top. (127.971 meters or 419.852 feet.)

NOTE.—It was reported that the mileposts along the San Antonio & Aransas Pass Railway were 1,200 to 1,400 feet north of their 1917 location.

D 45.—About 6 miles north of Pettus, Bee County, 4 meters northeast of milepost 186 of the San Antonio & Aransas Pass Railway, and 14 meters (46 feet) east of the tracks. A concrete post with disk in top. (122.041 meters or 400.396 feet.)

E 45.—About 4 miles north of Pettus, Bee County, 80 meters (262 feet) south of milepost 188 of the San Antonio & Aransas Pass Railway, and 8 meters east of the tracks. A concrete post with disk in top. (103.040 meters or 338.057 feet.)

F 45.—About 2 miles north of Pettus, Bee County, 8 meters southwest of milepost 190 of the San Antonio & Aransas Pass Railway and 7 meters east of the tracks. A concrete post with disk in top. (100.527 meters or 329.812 feet.)

G 45.—At Pettus, Bee County, 19 meters (62 feet) west of the San Antonio & Aransas Pass Railway and across the tracks from milepost 192. A concrete post with disk in top. (91.265 meters or 299.425 feet.)

H 45.—About 2 miles south of Pettus, Bee County, in the southwest corner of the San Antonio & Aransas Pass Railway culvert at mileage 194.1. A brass disk. (93.166 meters or 305.662 feet.)

I 45.—About 4 miles south of Pettus, Bee County, 13 meters (43 feet) west of the San Antonio & Aransas Pass Railway, 55 meters (180 feet) north of and across the tracks from milepost 196. A concrete post with disk in top. (92.646 meters or 303.956 feet.)

J 45.—Near Normanna, Bee County, 13 meters (43 feet) west of the San Antonio & Aransas Pass Railway and across the tracks from milepost 198. A concrete post with disk in top. (81.102 meters or 266.082 feet.)

K 45.—About 1 mile south of Normanna, Bee County, in the southeast corner of the cement abutment of the highway bridge near milepost 200 of the San Antonio & Aransas Pass Railway. A brass disk. (71.931 meters or 235.994 feet.)

L 45.—About 6 miles north of Beeville, Bee County, 3 meters northeast of milepost 202 of the San Antonio & Aransas Pass Railway and 13 meters (43 feet) east of the tracks. A concrete post with disk in top. (101.736 meters or 333.779 feet.)

M 45.—About 4 miles north of Beeville, Bee County, 100 meters (328 feet) southwest of milepost 204 of the San Antonio & Aransas Pass Railway and 14 meters (46 feet) east of the tracks. A concrete post with disk in top. (83.945 meters or 275.671 feet.)

N 45.—About 2 miles north of Beeville, Bee County, 23 meters (75 feet) north of milepost 206 of the San Antonio & Aransas Pass Railway, and 13 meters (43 feet) east of the tracks. A concrete post with disk in top. (86.591 meters or 284.091 feet.)

O 45.—Near Beeville, Bee County, 7.3 meters southwest of milepost 208 of the San Antonio & Aransas Pass Railway and 6.5 meters east of the tracks. A concrete post with disk in top. (68.906 meters or 226.069 feet.)

P 45.—At Beeville, Bee County, on the top of the balustrade at the south entrance to the courthouse. A brass disk. (66.293 meters or 217.496 feet.)

Q 45.—About 2 miles south of Beeville, Bee County, 11 meters (36 feet) west of the San Antonio & Aransas Pass Railway and across the tracks from milepost 210. A concrete post with disk in top. (68.355 meters or 224.261 feet.)

R 45.—About 4 miles south of Beeville, Bee County, 13 meters (43 feet) west of the San Antonio & Aransas Pass Railway and across the tracks from milepost 212. A concrete post with disk in top. (60.181 meters or 197.444 feet.)

S 45.—About 6 miles south of Beeville, Bee County, 11 meters (36 feet) west of the San Antonio & Aransas Pass Railway, 110 meters (360 feet) south of and across the tracks from milepost 214. A concrete post with disk in top. (48.611 meters or 159.485 feet.)

T 45.—About 4 miles north of Skidmore, Bee County, 13 meters (43 feet) west of the San Antonio & Aransas Pass Railway and across the tracks from

NOTE.—It was reported that the mileposts along the San Antonio & Aransas Pass Railway were 1,200 to 1,400 feet north of their 1917 location.

milepost 216. A concrete post with disk in top. (47.843 meters or 156.965 feet.)

U 45.—About 2 miles north of **Skidmore**, Bee County, 12 meters (39 feet) south of milepost 218 of the San Antonio & Aransas Pass Railway and 13 meters (43 feet) east of the tracks. A concrete post with disk in top. (39.563 meters or 129.800 feet.)

V 45.—About 1 mile south of **Skidmore**, Bee County, 13 meters (43 feet) west of the San Antonio & Aransas Pass Railway and across the tracks from milepost 220. A concrete post with disk in top. (47.140 meters or 154.658 feet.)

W 45.—About 3 miles south of **Skidmore**, Bee County, 11 meters (36 feet) west of the San Antonio & Aransas Pass Railway and across the tracks from milepost 222. A concrete post with disk in top. (40.560 meters or 133.071 feet.)

X 45.—About 5 miles south of **Skidmore**, Bee County, 14 meters (46 feet) west of the San Antonio & Aransas Pass Railway and across the tracks from milepost 224. A concrete post with disk in top. (32.350 meters or 106.135 feet.)

Y 45.—About 1 mile south of **Papalote**, Bee County, in the southeast corner of the cement abutment to a highway bridge parallel to the San Antonio & Aransas Pass Railway. A brass disk. (20.803 meters or 68.251 feet.)

Z 45.—About 8 miles north of **Sinton**, San Patricio County, 11 meters (36 feet) west of the San Antonio & Aransas Pass Railway and across the tracks from milepost 230. A concrete post with disk in top. (27.778 meters or 91.228 feet.)

A 46.—About 6 miles north of **Sinton**, San Patricio County, 11 meters (36 feet) west of the San Antonio & Aransas Pass Railway and across the tracks from milepost 232. A concrete post with disk in top. (25.900 meters or 84.974 feet.)

B 46.—About 4 miles north of **Sinton**, San Patricio County, 15 meters (49 feet) west of the San Antonio & Aransas Pass Railway and across the tracks from milepost 234. A concrete post with disk in top. (22.396 meters or 73.478 feet.)

C 46.—About 2 miles north of **Sinton**, San Patricio County, 12 meters (39 feet) west of the San Antonio & Aransas Pass Railway, 18 meters (59 feet) northwest of and across the tracks from milepost 236. A concrete post with disk in top. (15.307 meters or 50.220 feet.)

D 46.—At **Sinton**, San Patricio County, 10 meters north of the San Antonio & Aransas Pass Railway and 16 meters (52 feet) west of the St. Louis, Brownsville & Mexico Railway. A concrete post with disk in top. (14.997 meters or 49.203 feet.)

E 46.—At **Sinton**, San Patricio County, in the front wall of the Vermillion Drug Co. store, at the left of the entrance, 1.3 meters above the sidewalk. A brass disk. (13.580 meters or 54.426 feet.)

F 46.—At **Sinton**, San Patricio County, in the west wall of the State Bank at the left of the entrance. A brass disk. (16.012 meters or 52.533 feet.)

G 46.—At **Sinton**, San Patricio County, in the top of a cement post used as a meridian mark in the southwest corner of the courthouse yard. A brass disk. (15.004 meters or 49.226 feet.)

H 46.—At **Sinton**, San Patricio County, in the south wall of the courthouse, 3 meters east of the entrance. A brass disk. (15.641 meters or 51.316 feet.)

I 46.—About 3 miles south of **Sinton**, San Patricio County, in line with the telegraph poles at milepost 159 of the St. Louis, Brownsville & Mexico Railway. A concrete post with disk in top. (16.321 meters or 53.546 feet.)

M 46.—At **Odem**, San Patricio County, in the east wall of the Odem State Bank, near the entrance. A brass disk. (23.517 meters or 77.155 feet.)

J 46.—At **Angelita**, San Patricio County, about 36 meters (118 feet) north of the St. Louis, Brownsville & Mexico Railway station and 7.5 meters west of the tracks. A concrete post with disk in top. (9.572 meters or 31.404 feet.)

K 46.—About 2 miles north of **Calallen**, Nueces County, in the southwest abutment of the St. Louis, Brownsville & Mexico Railway bridge over the Nueces River. A brass disk. (3.369 meters or 11.053 feet.)

NOTE.—It was reported that the mileposts along the San Antonio & Aransas Pass Railway were 1,200 to 1,400 feet north of their 1917 location.

L 46.—At Calallen, Nueces County, about 8 meters north of the St. Louis, Brownsville & Mexico Railway station and 9 meters west of the tracks. A concrete post with disk in top. (10.390 meters or 34.088 feet.)

N 46.—About 3 miles south of Calallen, Nueces County, in line with the telegraph poles at milepost 145 of the St. Louis, Brownsville & Mexico Railway. A concrete post with disk in top. (22.130 meters or 72.605 feet.)

O 46.—At Robstown, Nueces County, in the front wall of Blaise's pharmacy, at the left of the entrance and about 1 meter above the walk. A brass disk. (23.570 meters or 77.329 feet.)

P 46.—At Robstown, Nueces County, in the front wall of the Baker-Voss Hardware Co.'s store, at the left of the entrance and about 1 meter above the walk. A brass disk. (23.339 meters or 76.571 feet.)

Q 46.—At Robstown, Nueces County, at the south corner of the west wall of the Hotel Brendle. A brass disk. (23.015 meters or 75.508 feet.)

Spur line, Robstown to Corpus Christi, Tex.

R 46.—About 3 miles east of Robstown, Nueces County, at milepost 148 of the Texas Mexican Railway, and 12 meters (39 feet) north of the tracks. A concrete post with disk in top. (19.821 meters or 65.029 feet.)

S 46.—About 6 miles east of Robstown, Nueces County, at milepost 151 of the Texas Mexican Railway and 12 meters (39 feet) north of the tracks. A concrete post with disk in top. (17.676 meters or 57.992 feet.)

T 46.—About 7 miles west of Corpus Christi, Nueces County, in line with the telegraph poles south of the Texas Mexican Railway and across the tracks from milepost 154. A concrete post with disk in top. (14.176 meters or 46.509 feet.)

U 46.—About 4 miles west of Corpus Christi, Nueces County, at milepost 157 of the Texas Mexican Railway, and 10 meters (33 feet) north of the tracks. A concrete post with disk in top. (13.271 meters or 43.540 feet.)

V 46.—About 1 mile west of Corpus Christi, Nueces County, in line with the telegraph poles south of the Texas Mexican Railway and across the tracks from milepost 160. A concrete post with disk in top. (11.180 meters or 36.680 feet.)

W 46.—At Corpus Christi, Nueces County, in the south wall of the Texas Mexican Railway depot under the middle window of the ticket office. A brass disk. (11.877 meters or 38.966 feet.)

X 46.—At Corpus Christi, Nueces County, in the west wall of the San Antonio & Aransas Pass Railway Depot, at the left of the entrance to the waiting room. A brass disk. (3.719 meters or 12.201 feet.)

Y 46.—At Corpus Christi, Nueces County, a square cut in the top of the north end of the wall along the sidewalk in front of the Anderson Cottage on the beach across the street from the Seaside Hotel. (1.888 meters or 6.194 feet.)

Z 46 (U. S. E.).—At Corpus Christi, Nueces County. This is U. S. Engineers bench mark No. 1, a dent in the extreme east end of the east window in the south wall of the City National Bank Building. (2.964 meters or 9.724 feet.)

End of spur line.

A 47.—About 2 miles south of Robstown, Nueces County, at milepost 139 of the St. Louis, Brownsville & Mexico Railway, in line with the telegraph poles west of the tracks. A concrete post with disk in top. (23.056 meters or 75.643 feet.)

B 47.—About 5 miles south of Robstown, Nueces County, at milepost 136 of the St. Louis, Brownsville & Mexico Railway, in line with the telegraph poles west of the tracks. A concrete post with disk in top. (20.315 meters or 66.650 feet.)

C 47.—At Driscoll, Nueces County, 12 meters (40 feet) north of milepost 132 of the St. Louis, Brownsville & Mexico Railway. A concrete post with disk in top. (18.296 meters or 60.026 feet.)

D 47.—About 3 miles south of Driscoll, Nueces County, at milepost 129 of the St. Louis, Brownsville & Mexico Railway, in line with the telegraph poles west of the tracks. A concrete post with disk in top. (19.015 meters or 62.385 feet.)

E 47.—About 1 mile north of **Bishop**, Nueces County, at milepost 126 of the St. Louis, Brownsville & Mexico Railway, in line with the telegraph poles west of the tracks. A concrete post with disk in top. (19.277 meters or 63.245 feet.)

F 47.—At **Bishop**, Nueces County, in the front wall of the Ewing & Phillips Hardware Co.'s store, at the right of the entrance and about 1 meter (3 feet) above the walk. A brass disk. (20.012 meters or 65.656 feet.)

G 47.—At **Bishop**, Nueces County, in the front wall of the Cage Mercantile Co.'s store, about 1 meter (3 feet) above the sidewalk. A brass disk. (19.879 meters or 65.220 feet.)

H 47.—About 4 miles north of **Kingsville**, Kleberg County, at milepost 123 of the St. Louis, Brownsville & Mexico Railway, in line with the telegraph poles west of the tracks. A concrete post with disk in top. (17.248 meters or 56.588 feet.)

I 47.—At **Kingsville**, Kleberg County, in the west wall of the St. Louis, Brownsville & Mexico Railway Station at the left of the entrance to the waiting room. A brass disk. (21.704 meters or 71.207 feet.)

J 47.—At **Kingsville**, Kleberg County, in the south one of the two easternmost concrete pillars supporting the water tank of the St. Louis, Brownsville & Mexico Railway. A brass disk. (20.252 meters or 66.443 feet.)

K 47.—At **Kingsville**, Kleberg County, a magnetic station of the U. S. Coast and Geodetic Survey in the park north of the Henrietta Klug High School. The bench mark is the top of the brass disk in a stone post. (20.848 meters or 68.399 feet.)

L 47.—About 4 miles south of **Kingsville**, Kleberg County, at milepost 11½ of the St. Louis, Brownsville & Mexico Railway, in line with the telegraph poles west of the tracks. A concrete post with disk in top. (16.896 meters or 55.433 feet.)

M 47.—About 8 miles south of **Kingsville**, Kleberg County, at milepost 110 of the St. Louis, Brownsville & Mexico Railway, in line with the telegraph poles west of the tracks. A concrete post with disk in top. (13.474 meters or 44.206 feet.)

N 47.—About 3 miles north of **Riviera**, Kleberg County, at milepost 106 of the St. Louis, Brownsville & Mexico Railway, in line with the telegraph poles west of the tracks. A concrete post with disk in top. (12.988 meters or 42.611 feet.)

O 47.—At **Riviera**, Kleberg County, in the south wall of the Riviera State Bank Building, east of the entrance. A brass disk. (13.252 meters or 43.478 feet.)

Q 47.—At **Riviera**, Kleberg County, one-half meter west of the north entrance to the public high school. A brass disk. (12.660 meters or 41.535 feet.)

P 47.—About 2 miles south of **Riviera**, Kleberg County, in the southwest corner of the south abutment of the St. Louis, Brownsville & Mexico Railway bridge over Los Olmos. A brass disk. (7.436 meters or 24.396 feet.)

R 47.—At **Sarita**, Willacy County, one-half meter south of the entrance to the white waiting room of the St. Louis, Brownsville & Mexico Railway Station. A brass disk. (12.464 meters or 40.892 feet.)

S 47.—At **Sarita**, Willacy County, in the westernmost of the two northern concrete piers under the water tank of the St. Louis, Brownsville & Mexico Railway. A brass disk. (11.442 meters or 37.539 feet.)

T 47.—About 4.5 miles south of **Sarita**, Willacy County, at milepost 93 of the St. Louis, Brownsville & Mexico Railway, in line with the telegraph poles west of the tracks. A concrete post with disk in top. (12.012 meters or 39.409 feet.)

U 47.—About 8.5 miles south of **Sarita**, Willacy County, at milepost 89 of the St. Louis, Brownsville & Mexico Railway, in line with the telegraph poles west of the tracks. A concrete post with disk in top. (10.008 meters or 32.835 feet.)

V 47.—About 8 miles north of **Armstrong**, Willacy County, at milepost 85 of the St. Louis, Brownsville & Mexico Railway, in line with the telegraph poles west of the tracks. A concrete post with disk in top. (11.504 meters or 37.743 feet.)

W 47.—About 4 miles north of **Armstrong**, Willacy County, at milepost 81 of the St. Louis, Brownsville & Mexico Railway, in line with the telegraph poles west of the tracks. A concrete post with disk in top. (10.729 meters or 35.200 feet.)

X 47.—At **Armstrong**, Willacy County, in the northernmost of the two eastern concrete piers under the water tank of the St. Louis, Brownsville & Mexico Railway. A brass disk. (7.821 meters or 25.859 feet.)

Y 47.—About 5 miles south of **Armstrong**, Willacy County, at milepost 72 of the St. Louis, Brownsville & Mexico Railway, in line with the telegraph poles west of the tracks. A concrete post with disk in top. (8.228 meters or 26.995 feet.)

Z 47.—About 0.5 mile north of **Norias**, Willacy County, at milepost 68 of the St. Louis, Brownsville & Mexico Railway, in line with the telegraph poles west of the tracks. A concrete post with disk in top. (5.504 meters or 18.058 feet.)

A 48.—About 3.5 miles south of **Norias**, Willacy County, at milepost 64 of the St. Louis, Brownsville & Mexico Railway, in line with the telegraph poles west of the tracks. A concrete post with disk in top. (6.625 meters or 21.736 feet.)

B 48.—At **Rudolph**, Willacy County, in the northernmost of the two eastern concrete piers under the water tank of the St. Louis, Brownsville & Mexico Railway. A brass disk. (8.643 meters or 28.356 feet.)

C 48.—About 9.5 miles north of **Raymondville**, Cameron County, at milepost 56 of the St. Louis, Brownsville & Mexico Railway, in line with the telegraph poles west of the tracks. A concrete post with disk in top. (8.569 meters or 28.113 feet.)

D 48.—About 6.5 miles north of **Raymondville**, Cameron County, at milepost 53 of the St. Louis, Brownsville & Mexico Railway, in line with the telegraph poles west of the tracks. A concrete post with disk in top. (11.832 meters or 38.819 feet.)

E 48.—About 2.5 miles north of **Raymondville**, Cameron County, at milepost 49 of the St. Louis, Brownsville & Mexico Railway, in line with the telegraph poles west of the tracks. A concrete post with disk in top. (9.626 meters or 31.581 feet.)

F 48.—At **Raymondville**, Cameron County, in the southernmost of the two eastern concrete piers under the water tank of the St. Louis, Brownsville & Mexico Railway. A brass disk. (10.060 meters or 33.005 feet.)

G 48.—At **Raymondville**, Cameron County, in the north front of Duffield's drug store, east of the entrance. A brass disk. (11.122 meters or 36.489 feet.)

H 48.—About 3.5 miles south of **Raymondville**, Cameron County, at milepost 43 of the St. Louis, Brownsville & Mexico Railway, in line with the telegraph poles west of the tracks. A concrete post with disk in top. (9.463 meters or 31.047 feet.)

I 48.—At **Lyford**, Cameron County, in the front wall of the post-office building at the right of the entrance. A brass disk. (12.903 meters or 42.333 feet.)

J 48.—At **Sebastian**, Cameron County, across the tracks from the St. Louis, Brownsville & Mexico Railway station between the main line and a switch. A concrete post with disk in top. (11.934 meters or 39.153 feet.)

K 48.—About 9 miles north of **Harlingen**, Cameron County, at milepost 34 of the St. Louis, Brownsville & Mexico Railway, in line with the telegraph poles west of the tracks. A concrete post with disk in top. (11.678 meters or 38.314 feet.)

L 48.—About 5 miles north of **Harlingen**, Cameron County, at milepost 30 of the St. Louis, Brownsville & Mexico Railway, in line with the telegraph poles west of the tracks. A concrete post with disk in top. (12.859 meters or 42.188 feet.)

M 48.—At **Harlingen**, Cameron County, beneath the bay window in the west side of the St. Louis, Brownsville & Mexico Railway Station. A brass disk. (13.676 meters or 44.869 feet.)

N 48.—At **Harlingen**, Cameron County, in the north wall of the building between the two entrances of the Lozane Mercantile Co. A brass disk. (13.456 meters or 44.147 feet.)

O 48.—At **Harlingen**, Cameron County, in the south wall of the Harlingen State Bank Building, east of the entrance. A brass disk. (13.475 meters or 44.209 feet.)

P 48.—About 1.5 miles south of **Harlingen**, Cameron County, in the southwest corner of the south abutment of the St. Louis, Brownsville & Mexico Railway bridge over the Arroyo Colorado. A brass disk. (11.625 meters or 38.140 feet.)

Q 48.—At **San Benito**, Cameron County, 0.2 meter south of the bay window in the east side of the St. Louis, Brownsville & Mexico Railway Station. A brass disk. (12.990 meters or 42.618 feet.)

R 48.—At San Benito, Cameron County, in the southwall of the Farmer's State Guaranty Bank, between the two windows. A brass disk. (12.240 meters or 40.157 feet.)

T 48.—About 3 miles south of San Benito, Cameron County, at milepost 16 of the St. Louis, Brownsville & Mexico Railway, in line with the telegraph poles west of the tracks. A concrete post with disk in top. (9.966 meters or 32.697 feet.)

S 48.—About 6 miles south of San Benito, Cameron County, at milepost 13 of the St. Louis, Brownsville & Mexico Railway, in line with the telegraph poles west of the tracks. A concrete post with disk in top. (10.778 meters or 35.361 feet.)

U 48.—About 10 miles north of Brownsville, Cameron County, at milepost 10 of the St. Louis, Brownsville & Mexico Railway, in line with the telegraph poles west of the tracks. A concrete post with disk in top. (9.638 meters or 31.621 feet.)

V 48.—About 7 miles north of Brownsville, Cameron County, at milepost 7 of the St. Louis, Brownsville & Mexico Railway, in line with the telegraph poles west of the tracks. A concrete post with disk in top. (8.009 meters or 26.276 feet.)

W 48.—About 3 miles north of Brownsville, Cameron County, at milepost 3 of the St. Louis, Brownsville & Mexico Railway, in line with the telegraph poles west of the tracks. A concrete post with disk in top. (11.695 meters or 38.369 feet.)

X 48.—At Brownsville, Cameron County, in the east wall of the St. Louis, Brownsville & Mexico Railway station, in the south side of the bay window. A brass disk. (11.732 meters or 38.491 feet.)

Y 48.—At Brownsville, Cameron County, on the top and near the west end of the first pier north of the draw pier of the international bridge over the Rio Grande. A brass disk. (12.984 meters or 42.598 feet.)

Z 48 (I. B. C. R. P. 43).—At Brownsville, Cameron County, in the northwest corner of the post-office yard, reference point 43 of the International Boundary Commission, a stone post with a rectangular iron in the top bearing the legend I B C+C de L. (10.955 meters or 35.942 feet.)

A 49 (U. S. G. S.).—At Brownsville, Cameron County, in the northwest corner of the intersection of Eleventh and Madison Streets. Stamped "34 1913." An iron post. (10.152 meters or 33.307 feet.)

B 49 (I. B. C. R. P. 44).—At Brownsville, Cameron County, at the northwest corner of the abandoned hospital at Old Fort Brown, reference point 44 of the International Boundary Commission, a stone post with a rectangular iron in the top bearing the legend I B C+C de L. (10.664 meters or 34.987 feet.)

C 49 (U. S. G. S.).—About 3 miles east of Brownsville, Cameron County, about 61 meters (200 feet) east of milepost 3-19 of the Rio Grande Railway on the north right-of-way line. An iron post stamped "23 1913 S." (6.968 meters or 22.861 feet.)

D 49 (U. S. G. S.).—About 6 miles east of Brownsville, Cameron County, on the north right-of-way line opposite milepost 6-16 of the Rio Grande Railway. An iron post stamped "17 1913 S." (5.129 meters or 16.827 feet.)

E 49 (U. S. G. S.).—About 9 miles east of Brownsville, Cameron County, 7.6 meters west of milepost 9-13 of the Rio Grande Railway and about 15 meters (49 feet) south of the tracks. An iron post stamped "7 1913 S." (2.014 meters or 6.608 feet.)

F 49 (U. S. G. S.).—About 12 miles east of Brownsville, Cameron County, on the south right-of-way line opposite milepost 12-10 of the Rio Grande Railway. An iron post stamped "6 1913 S." (1.868 meters or 6.129 feet.)

G 49 (U. S. G. S.).—About 4 miles west of Point Isabel, Cameron County, opposite milepost 13-4 of the Rio Grande Railway and about 12 meters (39 feet) south of the tracks. An iron post stamped "10 1913 S." (2.841 meters or 9.321 feet.)

H 49 (U. S. G. S.).—At Point Isabel, Cameron County, about 37 meters (120 feet) west of the west end of the Rio Grande Railway station and about 15 meters (49 feet) north of the tracks. An iron post stamped "9 1913 S." (2.684 meters or 8.806 feet.)

No. 1.—At Point Isabel, Cameron County, the top of a copper bolt in the left side of the upper step to the abandoned lighthouse. (8.401 meters or 27.562 feet.)

LINE XV, SAN ANTONIO TO LAREDO, TEX.

This line follows the Artesian Belt Railway from Macdona to Kirk and the International & Great Northern Railway from Kirk to Laredo, Tex. The field work was done by J. D. Powell, hydrographic and geodetic engineer, and Douglas Karr, junior hydrographic and geodetic engineer, between September 17, 1917, and January 8, 1918.

For bench marks between Macdona and San Antonio, along the Southern Pacific Railroad, see pages 85 and 86.

V 36.—At Kirk, Bexar County, halfway between the first and second telegraph poles north of milepost 275 of the International & Great Northern Railway and 15 meters (49 feet) east of the tracks. A stone post with square hole in top. (198.569 meters or 651.472 feet.)

N 36.—About 1 mile south of Kirk, Bexar County, 2 telegraph poles north of milepost 276 of the International & Great Northern Railway, 15 meters (49 feet) west of the tracks and about 1 meter inside the right-of-way fence line. A stone post with square hole in top. (187.730 meters or 615.911 feet.)

O 36.—About 0.2 mile north of Atascosa, Bexar County, 9 telegraph poles north of milepost 278 of the International & Great Northern Railway, in the west parapet of a concrete culvert on the highway at a railroad crossing, about 10 meters (33 feet) east of the tracks. A brass disk. (202.171 meters or 663.289 feet.)

P 36.—At Atascosa, Bexar County, at milepost 278 of the International & Great Northern Railway; 15 meters (49 feet) east of the tracks and 5 meters east of a small shelter station. A stone post with square hole in top. (205.938 meters or 674.664 feet.)

Q 36.—About 2 miles north of Lytle, Atascosa County, at milepost 280 of the International & Great Northern Railway, in the west parapet of a concrete culvert on the highway, 30 meters (98 feet) east of the tracks, where there is a large tree on the east side of the road. A brass disk. (209.662 meters or 687.866 feet.)

R 36.—At Lytle, Atascosa County, halfway between the first and second telegraph poles south of milepost 282 of the International & Great Northern Railway and 40 meters (131 feet) east of the tracks, in the store facing the station and occupied by the Lytle Grocery Co. A brass disk. (220.884 meters or 724.684 feet.)

S 36.—About 1 mile south of Lytle, Atascosa County, halfway between the fourth and fifth telegraph poles north of milepost 283 of the International & Great Northern Railway and 15 meters (49 feet) east of the tracks, near the road leading to the northward. A stone post with square hole in top. (221.163 meters or 725.599 feet.)

T 36.—About 2 miles south of Lytle, Atascosa County, at milepost 284 of the International & Great Northern Railway and 20 meters (66 feet) east of the tracks. A stone post with square hole in top. (233.397 meters or 765.737 feet.)

U 36.—About 0.7 mile north of Natalia, Medina County, on the International & Great Northern Railway, and 0.8 mile south of the signboard "Station 1 Mile." A stone post with square hole in top. (209.981 meters or 688.913 feet.)

W 36.—About 1 mile south of Natalia, Medina County, 1 telegraph pole south of milepost 288 of the International & Great Northern Railway and 15 meters (49 feet) east of the tracks. A stone post with square hole in top. (208.607 meters or 684.405 feet.)

X 36.—About 2.2 miles north of the station of the International & Great Northern Railway at Devine, Medina County, half the distance to the first telegraph pole north of milepost 290 and 15 meters (49 feet) east of the tracks. A stone post with square hole in top. (208.428 meters or 683.818 feet.)

Y 36.—At Devine, Medina County, halfway between the seventh and eighth telegraph poles south of milepost 291 of the International & Great Northern Railway and 40 meters (131 feet) west of the tracks, in the east wall of the Adams Garage, 3 meters north of the entrance and 1 meter above the ground. A brass disk. (197.375 meters or 647.554 feet.)

Z 36.—About 0.8 mile south of Devine, Medina County, 1 telegraph pole south of milepost 292 of the International & Great Northern Railway and 12 meters (39 feet) east of the tracks. A stone post with square hole in top. (198.923 meters or 652.229 feet.)

B 37.—About 4 miles north of Moore, Frio County, halfway between the first and second telegraph poles north of milepost 296 of the International & Great Northern Railway and 20 meters (66 feet) west of the tracks. A stone post with disk in top. (191.565 meters or 628.498 feet.)

C 37.—About 2 miles north of Moore, Frio County, at milepost 298 of the International & Great Northern Railway and 15 meters (49 feet) west of the tracks. A stone post with square hole in top. (189.634 meters or 622.158 feet.)

D 37.—At Moore, Frio County, halfway between the fourth and fifth telegraph poles south of milepost 300 of the International & Great Northern Railway and 15 meters (49 feet) west of the main track. A stone post with square hole in top. (198.030 meters or 649.703 feet.)

A 37 (U. S. G. S.).—At Moore, Frio County, directly opposite the station of the International & Great Northern Railway, halfway between the first and second telegraph poles south of milepost 300 and 10 meters (33 feet) east of the tracks, 1 foot above the ground. An iron post stamped "660 SA." (199.111 meters or 653.250 feet.)

E 37.—About 2 miles south of Moore, Frio County, halfway between the first and second telegraph poles north of milepost 302 of the International & Great Northern Railway and 15 meters (49 feet) west of the tracks. A stone post with disk in top. (225.519 meters or 739.890 feet.)

F 37.—About 4 miles south of Moore, Frio County, at milepost 304 of the International & Great Northern Railway and 15 meters (49 feet) east of the tracks. A stone post with square hole in top. (220.632 meters or 723.857 feet.)

G 37.—About 6.5 miles south of Moore, Frio County, 15 telegraph poles south of milepost 306 of the International & Great Northern Railway and 15 meters (49 feet) east of the tracks. A stone post with square hole in top. (207.827 meters or 681.846 feet.)

H 37.—About 4.8 miles north of Pearsall, Frio County, 17 meters (56 feet) north of milepost 308 of the International & Great Northern Railway and 15 meters (49 feet) east of the tracks. A stone post with disk in top. (212.871 meters or 698.394 feet.)

I 37.—About 2.8 miles north of Pearsall, Frio County, 25 meters (82 feet) north of milepost 310 of the International & Great Northern Railway and 15 meters (49 feet) east of the tracks. A stone post with square hole in top. (200.381 meters or 657.417 feet.)

J 37.—About 0.8 mile north of Pearsall, Frio County, 6 meters (20 feet) north of milepost 312 of the International & Great Northern Railway and 15 meters (49 feet) east of the tracks. A stone post with square hole in top. (192.608 meters or 631.915 feet.)

K 37.—At Pearsall, Frio County, in the stone wall on the west side of the bakery near the front corner, about 50 meters (164 feet) east of the station of the International & Great Northern Railway. A brass disk. (192.434 meters or 631.344 feet.)

L 37.—About 1.2 miles south of Pearsall, Frio County, 17 meters (56 feet) north of milepost 314 of the International & Great Northern Railway and 15 meters (49 feet) east of the tracks. A stone post with square hole in top. (178.732 meters or 586.390 feet.)

M 37.—About 3.2 miles south of Pearsall, Frio County, 17 meters (56 feet) north of milepost 316 of the International & Great Northern Railway and 15 meters (49 feet) east of the tracks. A stone post with square hole in top. (179.745 meters or 589.713 feet.)

N 37.—About 3 miles north of Derby, Frio County, at milepost 318 of the International & Great Northern Railway and 15 meters (49 feet) east of the tracks. A stone post with square hole in top. (170.604 meters or 559.920 feet.)

O 37.—About 1 mile north of Derby, Frio County, halfway between the third and fourth telegraph poles south of milepost 320 of the International & Great Northern Railway and 15 meters (49 feet) east of the tracks. A stone post with square hole in top. (164.737 meters or 540.475 feet.)

P 37.—About 1 mile south of Derby, Frio County, halfway between the first and second telegraph poles north of milepost 322 of the International & Great Northern Railway and 12 meters (39 feet) east of the tracks. A stone post with square hole in top. (154.091 meters or 505.547 feet.)

Q 37.—About 3 miles south of Derby, Frio County, at milepost 324 of the International & Great Northern Railway in the northeast face of the stone foundation of the water tank on the south bank of the Frio River, 2 meters (7 feet) west of the tracks and 4 feet above the ground. A brass disk. (146.204 meters or 479.071 feet.)

R 37.—About 2 miles south of the Frio River and 2.7 miles north of Dilley, Frio County, at milepost 326 of the International & Great Northern Railway and 12 meters (39 feet) east of the tracks. A stone post with square hole in top. (151.591 meters or 497.345 feet.)

S 37.—About 0.8 mile north of Dilley, Frio County, at milepost 328 of the International & Great Northern Railway and 12 meters (39 feet) east of the tracks. A stone post with square hole in top. (162.867 meters or 534.339 feet.)

T 37.—At Dilley, Frio County, in the concrete sidewalk, 1 foot in front of the R. F. Avant Building, which is occupied by the post office, and 40 meters (131 feet) east of the main tracks of the International & Great Northern Railway. A brass disk. (170.601 meters or 559.713 feet.)

U 37.—About 1.2 miles south of Dilley, Frio County, at milepost 330 of the International & Great Northern Railway and 15 meters (49 feet) east of the track. A stone post with square hole in top. (164.298 meters or 539.034 feet.)

V 37.—About 3.2 miles south of Dilley, Frio County, 3 miles north of Millet, La Salle County, 8 meters south of milepost 332 of the International & Great Northern Railway and 15 meters (49 feet) east of the track. A stone post with square hole in top. (159.882 meters or 524.546 feet.)

W 37.—About 1 mile north of Millett, La Salle County, 25 meters (82 feet) south of milepost 334 of the International & Great Northern Railway and 15 meters (49 feet) east of the track. A stone post with square hole in top. (145.246 meters or 476.523 feet.)

X 37.—About 1 mile south of Millett, La Salle County, at milepost 336 of the International & Great Northern Railway and about 12 meters (39 feet) west of the tracks. A stone post with square hole in top. (153.747 meters or 504.418 feet.)

Y 37.—About 3.2 miles south of Millett, La Salle County, halfway between the sixth and seventh telegraph poles south of milepost 338 of the International & Great Northern Railway and about 12 meters (39 feet) east of the tracks. A stone post with square hole in top. (175.986 meters or 577.381 feet.)

Z 37.—About 0.5 mile south of Gardendale, La Salle County, 6 telegraph poles south of milepost 340 of the International & Great Northern Railway and about 12 meters (39 feet) west of the tracks. A stone post with square hole in top. (170.896 meters or 560.681 feet.)

A 38.—About 3.2 miles north of Cotulla, La Salle County, 25 meters (82 feet) south of milepost 342 of the International & Great Northern Railway and 12 meters (39 feet) east of the tracks. A stone post with square hole in top. (146.443 meters or 480.455 feet.)

B 38.—About 1.2 miles north of Cotulla, La Salle County, 2 telegraph poles north of milepost 344 of the International & Great Northern Railway and about 12 meters (39 feet) east of the tracks. A stone post with square hole in top. (127.435 meters or 418.093 feet.)

C 38.—At Cotulla, La Salle County, directly opposite the station of the International & Great Northern Railway and 90 meters (295 feet) west of the main track, in the north end of the stone step leading into the Cotulla State Bank. A brass disk. (129.489 meters or 424.332 feet.)

D 38.—About 0.8 mile south of Cotulla, La Salle County, 2 telegraph poles north of milepost 346 of the International & Great Northern Railway and about 12 meters (39 feet) east of the tracks. A stone post with square hole in top. (125.814 meters or 412.775 feet.)

E 38.—About 2.8 miles south of Cotulla, La Salle County, halfway between the third and fourth telegraph poles north of milepost 348 of the International & Great Northern Railway and about 12 meters (39 feet) east of the tracks. A stone post with square hole in top. (129.372 meters or 424.448 feet.)

F 38.—About 4.2 miles south of Cotulla, La Salle County, 37 meters (121 feet) north of milepost 350 of the International & Great Northern Railway and about 12 meters (39 feet) west of the tracks. A stone post with square hole in top. (143.178 meters or 469.743 feet.)

G 38.—About 4.2 miles north of Artesia Wells, La Salle County, at milepost 352 of the International & Great Northern Railway and about 12 meters (39 feet) east of the tracks. A stone post with square hole in top. (159.082 meters or 521.922 feet.)

H 38.—About 2 miles north of Artesia Wells, La Salle County, halfway between the sixth and seventh telegraph poles north of milepost 354 of the International & Great Northern Railway, about 30 meters (98 feet) south of the road crossing and 12 meters (39 feet) east of the tracks. A stone post with square hole in top. (160.158 meters or 525.452 feet.)

I 38.—About 2 miles south of **Artesia Wells**, La Salle County, and 0.2 mile south of **Artesia**, La Salle County, 12 meters (39 feet) south of milepost 358 of the International & Great Northern Railway and about 15 meters (49 feet) west of the tracks. A stone post with square hole in top. (131.334 meters or 430.885 feet.)

K 38.—About 4 miles south of **Artesia Wells**, La Salle County, halfway between the first and second telegraph poles north of milepost 360 of the International & Great Northern Railway and about 12 meters (39 feet) west of the tracks. A stone post with square hole in top. (140.429 meters or 460.724 feet.)

J 38.—About 4.2 miles north of **Atlee**, La Salle County, 25 meters (82 feet) north of milepost 362 of the International & Great Northern Railway and about 12 meters (39 feet) west of the tracks. A stone post with square hole in top. (158.202 meters or 519.034 feet.)

L 38.—About 2.2 miles north of **Atlee**, La Salle County, halfway between the second and third telegraph poles north of milepost 364 of the International & Great Northern Railway and about 12 meters (39 feet) east of the tracks. A stone post with square hole in top. (160.736 meters or 527.348 feet.)

M 38.—About 0.2 mile north of **Atlee**, La Salle County, 12 meters (39 feet) north of milepost 366 of the International & Great Northern Railway and about 12 meters (39 feet) east of the tracks. A stone post with square hole in top. (166.933 meters or 547.679 feet.)

N 38.—About 1.8 miles south of **Atlee**, La Salle County, 1 telegraph pole north of milepost 368 of the International & Great Northern Railway and about 12 meters (39 feet) east of the tracks. A stone post with square hole in top. (153.200 meters or 502.624 feet.)

O 38.—About 3.3 miles north of **Encinal**, La Salle County, 33 meters (108 feet) north of milepost 370 of the International & Great Northern Railway and about 12 meters (39 feet) east of the tracks. A stone post with square hole in top. (159.360 meters or 522.834 feet.)

P 38.—About 1.3 miles north of **Encinal**, La Salle County, 25 meters (82 feet) north of milepost 372 of the International & Great Northern Railway and about 12 meters (39 feet) east of the tracks. A stone post with square hole in top. (160.552 meters or 526.744 feet.)

Q 38.—At **Encinal**, La Salle County, in the westerly face of the stone foundation of the water tank of the International & Great Northern Railway and 3 meters east of the tracks, 4 feet above the ground. A brass disk. (170.142 meters or 558.208 feet.)

R 38.—About 0.3 mile south of **Encinal**, La Salle County, at milepost 374 of the International & Great Northern Railway and about 12 meters (39 feet) east of the tracks. A stone post with square hole in top. (167.838 meters or 550.648 feet.)

S 38.—About 2.5 miles south of **Encinal**, La Salle County, halfway between the sixth and seventh telegraph poles south of milepost 376 of the International & Great Northern Railway and about 12 meters (39 feet) west of the tracks. A stone post with square hole in top. (163.150 meters or 535.268 feet.)

T 38.—About 4.2 miles south of **Encinal**, La Salle County, 37 meters (121 feet) north of milepost 378 of the International & Great Northern Railway and about 12 meters (39 feet) east of the tracks. A stone post with square hole in top. (162.331 meters or 532.581 feet.)

U 38.—About 2.8 miles north of **Cactus**, Webb County, a little north of the eighth telegraph pole south of milepost 380 of the International & Great Northern Railway and about 12 meters (39 feet) east of the tracks. A stone post with square hole in top. (167.967 meters or 551.072 feet.)

V 38.—About 1 mile north of **Cactus**, Webb County, 25 meters (82 feet) north of milepost 382 of the International & Great Northern Railway and about 12 meters (39 feet) east of the tracks. A stone post with square hole in top. (170.113 meters or 558.112 feet.)

W 38.—About 1 mile south of **Cactus**, Webb County, 115 meters (377 feet) south of milepost 384 of the International & Great Northern Railway and 12 meters (39 feet) east of the tracks. A stone post with square hole in top. (188.346 meters or 617.932 feet.)

X 38.—About 3 miles south of **Cactus**, Webb County, a little south of the second telegraph pole north of milepost 386 of the International & Great Northern Railway and about 35 meters (115 feet) east of the tracks. A stone post with square hole in top. (185.085 meters or 607.293 feet.)

Y 38.—About 3.5 miles north of **Webb**, Webb County, a short distance from the first telegraph pole north of milepost 388 of the International & Great North-

ern Railway and about 12 meters (39 feet) east of the tracks. A stone post with square hole in top. (186.190 meters or 610.858 feet.)

Z 38.—About 1.5 miles north of Webb, Webb County, 2 telegraph poles north of milepost 390 of the International & Great Northern Railway and about 12 meters (39 feet) east of the tracks. A stone post with square hole in top. (190.221 meters or 624.083 feet.)

P 39.—At Webb, Webb County, in the southwesterly face of the stone foundation of the water tank of the International & Great Northern Railway, 3 meters east of the tracks and 1.5 meters above the ground. A brass disk. (192.726 meters or 632.302 feet.)

B 39.—About 2.5 miles south of Webb, Webb County, at milepost 394 of the International & Great Northern Railway and about 12 meters (39 feet) west of the tracks. A stone post with square hole in top. (218.069 meters or 715.448 feet.)

C 39.—About 4.5 miles south of Webb, Webb County, 25 meters (82 feet) south of milepost 396 of the International & Great Northern Railway and about 12 meters (39 feet) west of the tracks. A stone post with square hole in top. (210.227 meters or 689.720 feet.)

D 39.—About 6.5 miles south of Webb, Webb County, halfway between the first and second telegraph poles north of milepost 398 of the International & Great Northern Railway and about 12 meters (39 feet) west of the tracks. A stone post with square hole in top. (211.539 meters or 694.024 feet.)

E 39.—About 8.5 miles south of Webb, Webb County, 45 meters (148 feet) north of milepost 400 of the International & Great Northern Railway and about 12 meters (39 feet) east of the tracks. A stone post with square hole in top. (190.920 meters or 626.377 feet.)

F 39.—About 10.5 miles south of Webb, Webb County, a short distance from the second telegraph pole north of milepost 402 of the International & Great Northern Railway and about 12 meters (39 feet) east of the tracks. A stone post with square hole in top. (182.968 meters or 600.288 feet.)

G 39.—About 8 miles north of Laredo, Webb County, 2 telegraph poles south of milepost 404 of the International & Great Northern Railway and about 12 meters (39 feet) east of the tracks. A stone post with square hole in top. (157.208 meters or 515.767 feet.)

H 39.—About 6 miles north of Laredo, Webb County, 15 meters (49 feet) south of milepost 406 of the International & Great Northern Railway and about 10 meters (33 feet) west of the tracks. A stone post with square hole in top. (141.703 meters or 464.904 feet.)

I 39.—About 4 miles north of Laredo, Webb County, at milepost 408 of the International & Great Northern Railway, about 400 meters (1,312 feet) north of the sign marked "Nye" and 12 meters (39 feet) west of the tracks. A stone post with square hole in top. (129.080 meters or 423.400 feet.)

J 39.—About 2 miles north of Laredo, Webb County, 1 telegraph pole north of milepost 410 of the International & Great Northern Railway and about 12 meters (39 feet) east of the tracks. A stone post with square hole in top. (128.955 meters or 423.080 feet.)

K 39.—At Laredo, Webb County, in the west face of the depot of the International & Great Northern Railway, 2 meters south of the northwest corner and 4 feet above the floor level. A brass disk. (127.323 meters or 417.726 feet.)

L 39.—At Laredo, Webb County, in the west face of the post office building, 1 foot from the southwest corner and 1.3 meters above the sidewalk. A brass disk. (127.902 meters or 419.625 feet.)

M 39.—At Laredo, Webb County, east of the front entrance to the high school building and 1.4 meters above the floor level. A brass disk. (127.854 meters or 419.468 feet.)

Q 39.—At Laredo, Webb County, in the brick wall supporting the wooden building used by the U. S. Immigration Service, on the American side of the international wagon and foot bridge across the Rio Grande, 0.5 meter above the sidewalk. A brass disk. To be covered by improvements to the bridge in 1920. (119.345 meters or 391.551 feet.)

N 39.—At Laredo, Webb County, in the top of the north concrete abutment of the bridge of the Nacional de Mexico Railway, 1 meter east of the tracks. A brass disk. (126.861 meters or 416.210 feet.)

O 39.—At Laredo, Webb County, on Victoria Street, 150 meters (492 feet) west of the International & Great Northern Railway tracks, in the south face of the Coast and Geodetic Survey latitude and longitude station at Fort

McIntosh, 0.5 meter above the ground. A brass disk. (127.948 meters or 419.776 feet.)

For additional bench marks at Laredo, Tex., see pages 123 and 124.

LINE XVI, SINTON, TEX., TO NEW ORLEANS, LA.

This is the Texas portion of a line which follows the St. Louis, Brownsville & Mexico Railway from Sinton to Houston, Tex., and the Southern Pacific Railroad from Houston, Tex., to New Orleans, La. Spur lines were run from Placedo Junction to Port Lavaca, Tex., over the Galveston, Harrisburg & San Antonio Railway, from Bay City to Matagorda, Tex., over the Gulf, Colorado & Santa Fe Railway; from Angleton to Freeport, Tex., over the Houston & Brazos Valley Railway, and from Beaumont to Sabine, Tex., over the Texas & New Orleans Railroad. The field work was done by Max Steinberg, hydrographic and geodetic engineer, and C. M. Durgin, extra observer, between January 19 and September 9, 1918.

For additional bench marks at Sinton, see page 91.

R 39.—About 2.9 miles north of Sinton, San Patricio County, 2 meters (7 feet) southwest of milepost 165 of the St. Louis, Brownsville & Mexico Railway and 15 meters (49 feet) northwest of the track. A concrete post with disk in top. (17.676 meters or 57.992 feet.)

S 39.—At Ewelder, San Patricio County, 50 meters (164 feet) southeast of milepost 169 of the St. Louis, Brownsville & Mexico Railway and 22 meters (72 feet) south of the track. A concrete post with disk in top. (15.131 meters or 49.642 feet.)

T 39.—About 1 mile north of Ewelder, in Refugio County, on the top surface of the north abutment (concrete) of the bridge of the St. Louis, Brownsville & Mexico Railway over the Aransas River. A brass disk. (10.460 meters or 34.318 feet.)

U 39.—At Cranell, Refugio County, 40 meters (131 feet) northwest of the tracks at station board "Cranell" of the St. Louis, Brownsville & Mexico Railway and 10 meters (33 feet) southeast of highway. A concrete post with disk in top. (14.103 meters or 46.270 feet.)

V 39.—About 1.5 miles north of Cranell, Refugio County, 50 meters (164 feet) northeast of milepost 175 of the St. Louis, Brownsville & Mexico Railway and 10 meters (33 feet) southeast of the track, 6 telegraph poles north of trestle 174.8. A concrete post with disk in top. (13.032 meters or 44.888 feet.)

W 39.—About 2.8 miles southwest of Woodsboro, Refugio County, 15 meters (49 feet) north of a county road crossing and 10 meters (33 feet) northwest of the St. Louis, Brownsville & Mexico Railway track. A concrete post with disk in top. (11.807 meters or 38.737 feet.)

X 39.—At Woodsboro, Refugio County, in the southeast corner of the brick wall of the building owned by Baumgartner, 4 feet above ground. A brass disk. (15.721 meters or 51.578 feet.)

Y 39.—At Woodsboro, Refugio County, in the firm sidewalk, 1 foot north of the end, 6 inches east of the front window of the Rooke and Swift building. A brass disk. (14.007 meters or 45.955 feet.)

Z 39.—At La Rosa, Refugio County, 60 meters (197 feet) northeast of the station of the St. Louis, Brownsville & Mexico Railway and 10 meters (33 feet) east of the track. A concrete post with disk in top. (13.009 meters or 42.680 feet.)

A 40.—About 1.2 miles north of La Rosa, Refugio County, 1.4 miles south of the bridge of the St. Louis, Brownsville & Mexico Railway over the Mission River, on a concrete culvert 3 meters west of the track. A brass disk. (12.976 meters or 42.572 feet.)

B 40.—About 1 mile south of Refugio, Refugio County, on the south abutment, on the west side of the bridge of the St. Louis, Brownsville & Mexico Railway over the Mission River. A brass disk. (12.222 meters or 40.098 feet.)

C 40.—At Refugio, Refugio County, on the east side of the southeast entrance of the Refugio public school, 4 feet above ground. A brass disk. (16.833 meters or 55.226 feet.)

D 40.—At **Refugio**, Refugio County, in the southeast corner of the brick wall of the Ben Shelton Building, 4 feet above the ground. A brass disk. (17.467 meters or 57.306 feet.)

E 40.—At **Refugio**, Refugio County, on the north side of the east entrance in the Refugio County Courthouse, 4 feet above the ground. A brass disk. (17.584 meters or 57.690 feet.)

F 40.—About 2.5 miles north of **Refugio**, Refugio County, 16 telegraph poles north of milepost 188 of the St. Louis, Brownsville & Mexico Railway, 210 meters (689 feet) north of the trestle, 70 meters (230 feet) north of a road crossing and 15 meters (49 feet) west of the track. A concrete post with disk in top. (14.658 meters or 48.080 feet.)

G 40.—About 5.1 miles north of **Refugio**, Refugio County, 2 telegraph poles north of milepost 191 of the St. Louis, Brownsville & Mexico Railway, 6 telegraph poles north of the trestle and 12 meters (39 feet) west of the track. A concrete post with disk in top. (16.956 meters or 55.630 feet.)

H 40.—At **Greta**, Refugio County, 500 meters (1,640 feet) north of the Greta station board, 375 meters (1,230 feet) south of milepost 194 of the St. Louis, Brownsville & Mexico Railway, 150 meters (492 feet) north of the cotton-gin mill and 10 meters (33 feet) east of the track at the point where the mill sidetrack leaves the main line. A concrete post with disk in top. (19.032 meters or 62.441 feet.)

I 40.—About 2.5 miles north of **Greta**, Refugio County, 3 telegraph poles north of milepost 196 of the St. Louis, Brownsville & Mexico Railway, 280 meters (919 feet) north of the trestle and 15 meters (49 feet) west of the track. A concrete post with disk in top. (20.336 meters or 66.719 feet.)

J 40.—At **Vidauri**, Refugio County, 100 meters (328 feet) north of the station of the St. Louis, Brownsville & Mexico Railway, 60 meters (197 feet) north of a road crossing and 10 meters (33 feet) east of the track. A concrete post with disk in top. (22.095 meters or 72.490 feet.)

K 40.—About 2.1 miles north of **Vidauri**, Refugio County, 13 telegraph poles north of milepost 200 of the St. Louis, Brownsville & Mexico Railway, about 150 meters (492 feet) south of the trestle and 10 meters (33 feet) east of the track. A concrete post with disk in top. (21.681 meters or 71.132 feet.)

L 40.—About 2.5 miles south of **Inari**, Refugio County, 30 meters (98 feet) east of milepost 203 of the St. Louis, Brownsville & Mexico Railway and 15 meters (49 feet) east of the track. A concrete post with disk in top. (22.648 meters or 74.304 feet.)

M 40.—At **Inari**, Refugio County, 40 meters (131 feet) southwest of the station of the St. Louis, Brownsville & Mexico Railway, 30 meters (98 feet) north of the section house and 15 meters (49 feet) west of the track, in the southwest corner of the old foundation concrete block, 5 by 5 feet. A brass disk. (23.757 meters or 77.943 feet.)

N 40.—About 1.5 miles north of **Inari**, Refugio County, at milepost 207 of the St. Louis, Brownsville & Mexico Railway, on the east side of the north abutment of the bridge over the San Antonio River. A brass disk. (15.364 meters or 50.407 feet.)

O 40.—At **Marianna**, Victoria County, 180 meters (591 feet) north of the station of the St. Louis, Brownsville & Mexico Railway and 15 meters (49 feet) west of the track, near the north end of the sidetrack. (A concrete post with disk in top. (23.071 meters or 75.692 feet.)

P 40.—About 2.5 miles north of **Marianna**, Victoria County, 6 telegraph poles south of milepost 212 of the St. Louis, Brownsville & Mexico Railway, 100 meters (328 feet) north of trestle 211.7 and 15 meters (49 feet) east of the track. A concrete post with disk in top. (19.541 meters or 64.111 feet.)

Q 40.—About 2 miles south of **Black Bayou**, Victoria County, on the east side of the north abutment of the bridge of the St. Louis, Brownsville & Mexico Railway over the Guadalupe River, at milepost 215. A brass disk. (7.279 meters or 23.881 feet.)

R 40.—At **Black Bayou**, Victoria County, 50 meters (164 feet) south of trestle 217.3 of the St. Louis, Brownsville & Mexico Railway, at the north end of the curve and 15 meters (49 feet) east of the track. A concrete post with disk in top. (7.877 meters or 25.843 feet.)

S 40.—At **Bloomington**, Victoria County, in the southeast corner of the brick wall of Barnett's drug store. A brass disk. (19.320 meters or 63.386 feet.)

T 40.—At **Bloomington**, Victoria County, 150 meters (492 feet) north of the station of the St. Louis, Brownsville & Mexico Railway and 15 meters (49 feet)

west of the track. A concrete post with disk in top. (18.496 meters or 60.682 feet.)

U 40.—About 3 miles north of **Bloomington**, Victoria County, 7 telegraph poles north of milepost 222 of the St. Louis, Brownsville & Mexico Railway, 3 telegraph poles south of trestle 222.3 and 15 meters (49 feet) west of the track. A concrete post with disk in top. (17.372 meters or 56.995 feet.)

V 40.—At **Placedo**, Victoria County, in the southeast corner of the brick wall of the Shiller House building, 5 feet above the ground. A brass disk. (17.315 meters or 56.808 feet.)

Spur line, Placedo to Port Lavaca.

W 40.—At **Zillah**, Victoria County, 80 meters (98 feet) west of the station of the Galveston, Harrisburg & San Antonio Railway, halfway between the fifth and sixth telegraph poles east of milepost 11 and 15 meters (49 feet) north of the track. A concrete post with disk in top. (13.080 meters or 42.913 feet.)

X 40.—At **Kamey**, Calhoun County, 80 meters (262 feet) east of the station of the Galveston, Harrisburg & San Antonio Railway and 20 meters (66 feet) south of the track, in the southwest corner of the concrete foundation of a cottonseed shed. A brass disk. (9.963 meters or 32.687 feet.)

Y 40.—At **Clarks**, Calhoun County, 4 telegraph poles west of the station of the Galveston, Harrisburg & San Antonio Railway and 25 meters (82 feet) south of the track, 30 meters (98 feet) southwest of the switch at the west end of the sidetrack, a plate in the northwest corner of the concrete abutment of a wagon-road bridge. A brass disk. (8.540 meters or 28.018 feet.)

Z 40.—About 1.1 miles east of **Clarks**, Calhoun County, 10 telegraph poles west of milepost 4 of the Galveston, Harrisburg & San Antonio Railway, 50 meters (164 feet) southwest of trestle 4A and 30 meters (98 feet) south of the track, a plate in the top surface of the concrete abutment in the northwest corner of a wagon-road bridge. A brass disk. (7.981 meters or 26.184 feet.)

A 41.—At **Port Lavaca**, Calhoun County, 2.5 blocks east of the station of the Galveston, Harrisburg & San Antonio Railway and on the same street, 15 meters (49 feet) from high-water mark, a plate in the brick wall on the west side of the entrance to the Navidad Hotel. A brass disk. (7.014 meters or 23.012 feet.)

B 41.—At **Port Lavaca**, Calhoun County, 5 meters south of southwest entrance to the schoolhouse, in the brick wall 4 feet above the ground. A brass disk. (7.499 meters or 24.603 feet.)

C 41.—At **Port Lavaca**, Calhoun County, 3 meters east of the north entrance to the courthouse, a plate in a stone slab 8 feet north of the easternmost pillar of the entrance. A brass disk. (6.574 meters or 21.568 feet.)

End of spur line.

D 41.—At **Placedo**, Victoria County, halfway between the ninth and tenth telegraph poles north of the station of the St. Louis, Brownsville & Mexico Railway, 50 meters (164 feet) northwest of the switch stand and 20 meters (66 feet) west of the track. A concrete post with disk in top. (15.534 meters or 50.904 feet.)

E 41.—About 1.3 miles north of **Placedo**, Victoria County, 9 telegraph poles south of milepost 226 of the St. Louis, Brownsville & Mexico Railway, 20 meters (66 feet) northeast of a road crossing and 10 meters (33 feet) east of the track. A concrete post with disk in top. (15.453 meters or 50.709 feet.)

F 41.—At **Mitchell**, Victoria County, 8 meters (26 feet) west of the station board of the St. Louis, Brownsville & Mexico Railway, halfway between the sixth and seventh telegraph poles north of milepost 228, halfway between the third and fourth telegraph poles south of a road crossing and 10 meters (33 feet) west of the track. A concrete post with disk in top. (13.185 meters or 43.258 feet.)

G 41.—At **Carr**, Victoria County, 20 meters (66 feet) northwest of the station sign of the St. Louis, Brownsville & Mexico Railway, 12 telegraph poles south of milepost 230 and 10 meters (33 feet) west of the track. A concrete post with disk in top. (13.082 meters or 42.920 feet.)

H 41.—About 2 miles south of **Keeran**, Victoria County, 6 meters (20 feet) south of milepost 232 of the St. Louis, Brownsville & Mexico Railway, halfway between the third and fourth telegraph poles north of a road crossing and 10

meters (83 feet) west of the track. A concrete post with disk in top. (11.720 meters or 38.451 feet.)

I 41.—About 0.2 mile north of Keeran, in Jackson County, near milepost 234.1, on the southwest abutment of the bridge of the St. Louis, Brownsville & Mexico Railway over the Garcitas River. A brass disk. (4.548 meters or 14.921 feet.)

J 41.—At Ben West, Jackson County, halfway between the second and third telegraph poles south of milepost 236 of the St. Louis, Brownsville & Mexico Railway, 40 meters (131 feet) north of the station sign and 10 meters (33 feet) west of the track. A concrete post with disk in top. (10.775 meters or 35.351 feet.)

K 41.—About 3.2 miles south of Vanderbilt, Jackson County, 12 telegraph poles north of milepost 237 of the St. Louis, Brownsville & Mexico Railway, 240 meters (787 feet) north of the trestle and 15 meters (49 feet) east of the track. A concrete post with disk in top. (9.628 meters or 31.588 feet.)

L 41.—At Vanderbilt, Jackson County, 700 meters (2,297 feet) south of the station of the St. Louis, Brownsville & Mexico Railway and 30 meters (98 feet) east of the main track, a plate in the brick wall in the southwest corner of the roundhouse, 4 feet above the ground. A brass disk. (13.318 meters or 43.694 feet.)

M 41.—At Vanderbilt, Jackson County, a plate in the east face of the brick station of the St. Louis, Brownsville & Mexico Railway, 1 foot north of entrance. A brass disk. (13.490 meters or 44.258 feet.)

N 41.—At Vanderbilt, Jackson County, 230 meters (755 feet) east of the station of the St. Louis, Brownsville & Mexico Railway, a plate in the brick wall of the Vanderbilt Hotel, at the west end of the north side. A brass disk. (12.753 meters or 41.840 feet.)

O 41.—About 2.5 miles north of Vanderbilt, Jackson County, near milepost 242.7, in the east side of the south stone abutment of the bridge of the St. Louis, Brownsville & Mexico Railway over the Lavaca River. A brass disk. (3.522 meters or 11.555 feet.)

P 41.—At Lolita, Jackson County, 25 meters (82 feet) west of the station of the St. Louis, Brownsville & Mexico Railway halfway between the first and second telegraph poles south of milepost 245, 25 meters (82 feet) south of a wagon-road crossing and 10 meters (33 feet) west of the track. A concrete post with disk in top. (12.238 meters or 40.151 feet.)

Q 41.—About 2.2 miles north of Lolita, Jackson County, 7 telegraph poles north of milepost 247 of the St. Louis, Brownsville & Mexico Railway, 60 meters (197 feet) north of trestle 247.2 and 15 meters (49 feet) west of the track. A concrete post with disk in top. (12.552 meters or 41.181 feet.)

R 41.—At La Ward, Jackson County, 20 meters (66 feet) east of the station of the St. Louis, Brownsville & Mexico Railway. A concrete post with disk in top. (12.930 meters or 42.421 feet.)

S 41.—About 3.2 miles north of La Ward, Jackson County, 1 telegraph pole north of milepost 253 of the St. Louis, Brownsville & Mexico Railway, 3 telegraph poles north of trestle 252.0 and 15 meters (49 feet) west of the track. A concrete post with disk in top. (8.626 meters or 28.300 feet.)

T 41.—About 2 miles south of Francitas, Jackson County, 2 meters (7 feet) north of the tenth telegraph pole north of milepost 255 of the St. Louis, Brownsville & Mexico Railway, at south end of a curve, and 12 meters (39 feet) west of the track. A concrete post with disk in top. (10.044 meters or 32.953 feet.)

U 41.—At Francitas, Jackson County, 40 meters (131 feet) southwest of the station of the St. Louis, Brownsville & Mexico Railway and 35 meters (115 feet) west of the track, a plate on the top of the north side of a concrete culvert on the highway. A brass disk. (10.027 meters or 32.850 feet.)

V 41.—At Francitas, Jackson County, 100 meters (328 feet) northwest of station of the St. Louis, Brownsville & Mexico Railway and 35 meters (115 feet) west of the track, a plate on the top of the east side of a small concrete culvert on the highway. A brass disk. (10.456 meters or 34.304 feet.)

W 41.—About 2.3 miles north of Francitas, in Matagorda County, 6 telegraph poles south of milepost 260 of the St. Louis, Brownsville & Mexico Railway, 30 meters (98 feet) northeast of a wagon-road crossing and 12 meters (39 feet) east of the track. A concrete post with disk in top. (8.583 meters or 28.159 feet.)

X 41.—About 2.8 miles south of Blessing, Matagorda County, halfway between the third and fourth telegraph poles south of milepost 262 of the St.

Louis, Brownsville & Mexico Railway, 3 telegraph poles north of the north end of a curve, and 15 meters (49 feet) east of the track. A concrete post with disk in top. (9.924 meters or 31.575 feet.)

Y 41.—At **Blessing**, Matagorda County, 25 meters (82 feet) northwest of the station of the St. Louis, Brownsville & Mexico Railway, 7 telegraph poles south of Southern Pacific Railroad crossing, and 20 meters (66 feet) northwest of the track. A concrete post with disk in top. (12.514 meters or 41.056 feet.)

Z 41.—At **Blessing**, Matagorda County, a plate in the stone wall in the north-west corner of the J. W. Rugely Building. A brass disk. (13.516 meters or 44.344 feet.)

A 51.—At **Blessing**, Matagorda County, a plate in the southwest corner of the brick wall, 3 feet east of entrance of the Blessing State Bank Building. A brass disk. (13.570 meters or 44.521 feet.)

B 51.—About 0.3 mile south of **Tidehaven**, Matagorda County, near milepost 267 of the St. Louis, Brownsville & Mexico Railway, a plate on the east side of the south concrete abutment of the bridge over the Tres Palacios River. A brass disk. (8.568 meters or 28.110 feet.)

C 51.—At **Elmaton**, Matagorda County, 7 telegraph poles south of milepost 270 of the St. Louis, Brownsville & Mexico Railway, halfway between the second and third telegraph poles north of the station board, and 10 meters (33 feet) west of the track. A concrete post with disk in top. (12.209 meters or 40.056 feet.)

D 51.—About 3.2 miles south of **Buckeye**, Matagorda County, 17 telegraph poles south of milepost 273 of the St. Louis, Brownsville & Mexico Railway, 40 meters (131 feet) southwest of a road crossing and 10 meters (33 feet) northwest of the track. A concrete post with disk in top. (11.153 meters or 36.591 feet.)

E 51.—At **Buckeye**, Matagorda County, 100 meters (328 feet) northwest of the station of the St. Louis, Brownsville & Mexico Railway, 2 feet east of the fence hedge and 40 meters (131 feet) west of the track. A concrete post with disk in top. (12.912 meters or 42.362 feet.)

F 51.—About 1.5 miles north of **Buckeye**, Matagorda County, at milepost 276.7 of the St. Louis, Brownsville & Mexico Railway, in the east side of the concrete abutment at the north end of the bridge over the Colorado River. A brass disk. (14.435 meters or 47.359 feet.)

G 51.—About 3.8 miles south of **Bay City**, Matagorda County, halfway to the first telegraph pole north of milepost 280 of the St. Louis, Brownsville & Mexico Railway and 10 meters (33 feet) west of the track. A concrete post with disk in top. (14.537 meters or 47.693 feet.)

H 51.—About 1.3 miles south of **Bay City**, Matagorda County, 14 telegraph poles north of milepost 282 of the St. Louis, Brownsville & Mexico Railway, in the center of the top of a small concrete culvert on the west side of the track. A brass disk. (15.453 meters or 50.699 feet.)

I 51.—At **Bay City**, Matagorda County, in the brick wall, 2 feet north of the east entrance of the station of the St. Louis, Brownsville & Mexico Railway, 3 feet above the ground. A brass disk. (17.197 meters or 56.420 feet.)

J 51.—At **Bay City**, Matagorda County, in the brick wall in the southwest corner of the Baptist Church, 4 feet above the ground. A brass disk. (17.446 meters or 57.237 feet.)

K 51.—At **Bay City**, Matagorda County, 5 feet south of the east entrance to the new post office, 1 foot east of the wall, on the horizontal surface of the stairway. A brass disk. (17.039 meters or 55.902 feet.)

L 51.—At **Bay City**, Matagorda County, in the brick wall, 3 feet west of the entrance on the south side of the southeast corner of the Bay City Bank & Trust Co. Building, 3 feet above the ground. A brass disk. (17.213 meters or 56.473 feet.)

M 51.—At **Bay City**, Matagorda County, 4 feet east of the north entrance to the county courthouse, 4 feet above the ground. A brass disk. (17.343 meters or 56.899 feet.)

Spur line, Bay City to Matagorda, Tex.

M 52.—About 1.5 miles south of **Bay City**, Matagorda County, halfway between the seventh and eighth telegraph poles south of milepost 70 of the Gulf, Colorado & Santa Fe Railway, 50 meters (164 feet) northwest of trestle 70B and 40 meters (131 feet) north of the track, on the top of the south abutment of a small concrete culvert on the highway. A brass disk. (13.517 meters or 44.347 feet.)

N 51.—About 4 miles south of **Bay City**, Matagorda County, and about 0.7 mile north of **Culver**, 4 telegraph poles west of milepost 73 of the Gulf, Colorado & Santa Fe Railway, 60 meters (197 feet) south of **John Hallick's** house, 20 meters (66 feet) southeast of a wagon-road crossing and 15 meters (49 feet) south of the track. A concrete post with disk in top. (10.590 meters or 34.744 feet.)

O 51.—At **Sims**, Matagorda County, 60 meters (197 feet) west of the station board of the Gulf, Colorado & Santa Fe Railway and 15 meters (49 feet) north of the tracks, in southwest concrete foundation of the storehouse, 2 feet above the ground. A brass disk. (9.173 meters or 30.095 feet.)

P 51.—About 1.4 miles east of **Sims**, Matagorda County, 6 telegraph poles east of milepost 77 of the Gulf, Colorado & Santa Fe Railway and 40 meters (131 feet) north of the tracks at a wagon-road crossing, in the west end of the south concrete abutment of a bridge over an irrigation ditch. A brass disk. (10.453 meters or 34.295 feet.)

Q 51.—At **Wadsworth**, Matagorda County, 250 meters (820 feet) east of the station of the Gulf, Colorado & Santa Fe Railway and 20 meters (66 feet) north of the track, in the northwest concrete foundation post of a warehouse. A brass disk. (10.313 meters or 33.835 feet.)

R 51.—At **Stewart**, Matagorda County, 10 meters (33 feet) east of the station board of the Gulf, Colorado & Santa Fe Railway and 12 meters (39 feet) east of the tracks. A concrete post with disk in top. (6.837 meters or 22.431 feet.)

S 51.—At **Big Hill**, Matagorda County, 7 meters north of the station board of the Gulf, Colorado & Santa Fe Railway and 10 meters (33 feet) north of the track. A concrete post with disk in top. (3.872 meters or 12.703 feet.)

T 51.—About 1.9 miles north of **Matagorda**, Matagorda County, a short distance beyond the first telegraph pole west of milepost 88 of the Gulf, Colorado & Santa Fe Railway and 10 meters (33 feet) south of the track. A concrete post with disk in top. (3.717 meters or 12.195 feet.)

U 51.—At **Matagorda**, Matagorda County, in the brick wall, 3 feet east of the main entrance to the high school, 4 feet above the ground. A brass disk. (4.047 meters or 13.278 feet.)

V 51.—At **Matagorda**, Matagorda County, in southeast corner of the brick building owned by **S. J. Berg**. A brass disk. (3.935 meters or 12.910 feet.)

W 51.—At **Matagorda**, Matagorda County, 3 blocks south of the station of the Gulf, Colorado & Santa Fe Railway, on the southwest brick pier of the foundation of **P. J. Duffy's** residence, 1 foot above the ground. A brass disk. (2.801 meters or 9.190 feet.)

X 51.—At **Matagorda**, Matagorda County, 4 blocks south of the station of the Gulf, Colorado & Santa Fe Railway, in the brick chimney on the west side of **E. P. Layton's** residence, 1 foot above the ground. A brass disk. (3.450 meters or 11.339 feet.)

End of spur line.

Y 51.—About 2 miles northeast of **Bay City**, Matagorda County, 5 telegraph poles southwest of milepost 286 of the St. Louis, Brownsville & Mexico Railway, 15 meters (49 feet) northwest of the track, and 60 meters (197 feet) southwest of a shell-road crossing, halfway between the shell road and the track. A concrete post with disk in top. (14.563 meters or 47.779 feet.)

Z 51.—About 5.2 miles northeast of **Bay City**, Matagorda County, 30 meters (98 feet) southeast of milepost 289 of the St. Louis, Brownsville & Mexico Railway, 35 meters (115 feet) southeast of the section house and 15 meters (49 feet) southeast of the track. A concrete post with disk in top. (14.027 meters or 46.020 feet.)

A 52.—At **Allenhurst**, Matagorda County, 35 meters (115 feet) northeast of the station of the St. Louis, Brownsville & Mexico Railway, 7 meters southeast of the switch stand and 7 meters southeast of the track. A concrete post with disk in top. (12.935 meters or 42.438 feet.)

B 52.—About 2.4 miles northeast of **Allenhurst**, Matagorda County, 15 meters (49 feet) north of milepost 294 of the St. Louis, Brownsville & Mexico Railway, 30 meters (98 feet) north of the cattle guard and 15 meters (49 feet) northwest of the track. A concrete post with disk in top. (10.306 meters or 33.812 feet.)

C 52.—At **Hasima**, Brazoria County, on the top surface in the southeast corner of the concrete retaining wall around the station ground of the St.

Louis, Brownsville & Mexico Railway. A brass disk. (10.998 meters or 36.083 feet.)

D 52.—About 1.9 miles northeast of Hasima, Brazoria County, 20 meters (66 feet) southeast of milepost 298 of the St. Louis, Brownsville & Mexico Railway, 50 meters (164 feet) south of the trestle, 5 telegraph poles northeast of a spur line to the sawmill owned by the Sweeney Hardwood Co., and 12 meters (39 feet) southeast of the track. A concrete post with disk in top. (9.771 meters or 32.057 feet.)

E 52.—At Sweeney, Brazoria County, 50 meters (164 feet) southwest of the station of the St. Louis, Brownsville & Mexico Railway and 7 meters northwest of the track. A concrete post with disk in top. (10.544 meters or 34.593 feet.)

F 52.—At San Bernardo, Brazoria County, 18 telegraph poles north of milepost 303 of the St. Louis, Brownsville & Mexico Railway, 20 meters (66 feet) east of the station and 15 meters (49 feet) southeast of the track. A concrete post with disk in top. (7.077 meters or 23.218 feet.)

G 52.—In Brazoria County, on the top surface on the east side of the north concrete pier of the bridge of the St. Louis, Brownsville & Mexico Railway over the San Bernard River. A brass disk. (6.346 meters or 20.820 feet.)

H 52.—At Brazoria, Brazoria County, in the southwest corner of the brick building owned by C. C. Hampil. A brass disk. (10.053 meters or 32.982 feet.)

I 52.—At Brazoria, Brazoria County, in the northwest brick pier of the arbor to the entrance of the First State Bank, 2 feet above the ground. A brass disk. (8.934 meters or 29.311 feet.)

J 52.—In Brazoria County, at milepost 309 of the St. Louis, Brownsville & Mexico Railway, on the east side of the south concrete abutment of the bridge over the Brazos River. A brass disk. (10.784 meters or 35.381 feet.)

K 52.—At Burke, Brazoria County, 18 meters (59 feet) southeast of station signboard of the St. Louis, Brownsville & Mexico Railway and 20 meters (66 feet) southeast of the track. A concrete post with disk in top. (8.552 meters or 28.058 feet.)

L 52.—About 2.4 miles northeast of Burke, Brazoria County, 1 telegraph pole northeast of milepost 314 of the St. Louis, Brownsville & Mexico Railway, 4 telegraph poles northeast of a trestle, 30 meters (98 feet) southwest of a wagon-road crossing, and 5 meters northwest of the track. A concrete post with disk in top. (7.509 meters or 24.636 feet.)

N 52.—At Edmonds, Brazoria County, 20 meters (66 feet) northeast of station of the St. Louis, Brownsville & Mexico Railway, 20 meters (66 feet) southwest of the water tank, and 10 meters (33 feet) east of the section house, about 10 meters (33 feet) northwest of the track. A concrete post with disk in top. (8.924 meters or 29.278 feet.)

O 52.—About 2.2 miles southwest of Angleton, Brazoria County, 10 telegraph poles southwest of milepost 319 of the St. Louis, Brownsville & Mexico Railway, 50 meters (164 feet) northeast of trestle, 318.7 and 5 meters east of the track. A concrete post with disk in top. (7.394 meters or 24.258 feet.)

P 52.—At Angleton, Brazoria County, 0.6 kilometer (0.4 mile) southwest of the station of the St. Louis, Brownsville & Mexico Railway, on the northwest top surface of a concrete culvert under the track. A brass disk. (8.286 meters or 27.185 feet.)

Q 52.—At Angleton, Brazoria County, 8 telegraph poles, 450 feet, west of the station of the St. Louis, Brownsville & Mexico Railway, in the top surface of the north end of a concrete culvert abutment, 5 by 8 feet, on the main street leading west from station, at a street crossing. A brass disk. (8.651 meters or 28.382 feet.)

R 52.—At Angleton, Brazoria County, 2 blocks south and half a block east of the Angleton High School, on the top surface of the north concrete culvert at a street crossing. A brass disk. (8.652 meters or 28.386 feet.)

S 52.—At Angleton, Brazoria County, in the south face of the Angleton High School, 8 feet east of the main entrance, 3 feet above the ground. A brass disk. (9.508 meters or 31.194 feet.)

Spur line, Angleton to Freeport, Tex.

T 52.—About 0.5 mile southeast of the crossing of the St. Louis, Brownsville & Mexico Railway and the Houston & Brazos Valley Railway at Angleton, Brazoria County, 15 telegraph poles southeast of milepost 17 of the Houston & Brazos Valley Railway, on the west end of the south abutment of a concrete

highway bridge, 40 meters (131 feet) northeast of the tracks. A brass disk. (8.148 meters or 26.732 feet.)

U 52.—About 1.5 miles southeast of the crossing of the St. Louis, Brownsville & Mexico Railway and the Houston & Brazos Valley Railway at Angleton, Brazoria County, 11 telegraph poles northwest of milepost 15 of the Houston & Brazos Valley Railway, 50 meters (164 feet) east of a frame house southeast of a wagon-road crossing, 2 feet east of a fence, and 40 meters (131 feet) southwest of the track. A concrete post with disk in top. (7.847 meters or 25.745 feet.)

V 52.—About 4.1 miles southeast of the crossing of the St. Louis, Brownsville & Mexico Railway and the Houston & Brazos Valley Railway at Angleton, Brazoria County, 2 telegraph poles southeast of milepost 13 of the Houston & Brazos Valley Railway, 60 meters (197 feet) southeast of trestle No. 20, 5 meters northeast of the highway, and 15 meters (49 feet) southwest of the track. A concrete post with disk in top. (4.417 meters or 14.491 feet.)

W 52.—At Ross, Brazoria County, 7 telegraph poles southeast of milepost 10 of the Houston & Brazos Valley Railway, halfway between the fourth and fifth telegraph poles northwest of Ross siding and 30 meters (98 feet) southwest of the tracks, a plate in the north side of the east concrete abutment of a small culvert on the highway. A brass disk. (4.541 meters or 14.898 feet.)

X 52.—About 0.5 mile southeast of Ross, Brazoria County, 30 meters (98 feet) southwest of trestle No. 15 of the Houston & Brazos Valley Railway, 30 meters (98 feet) southwest of the tracks on the north side of the east abutment of a concrete highway bridge, 1 foot above the ground. A brass disk. (4.026 meters or 13.209 feet.)

Y 52.—At Clute, Brazoria County, 100 meters (328 feet) northwest of the station of the Houston & Brazos Valley Railway and 30 meters (98 feet) southwest of the tracks, in the north end of the east concrete abutment of a highway culvert, 1 foot above the ground. A brass disk. (3.952 meters or 12.966 feet.)

Z 52.—About 5.3 miles northwest of Freeport, Brazoria County, 11 telegraph poles northwest of milepost 5 of the Houston & Brazos Valley Railway, 12 meters (39 feet) southeast of a wagon-road crossing and 10 meters (33 feet) east of the track. A concrete post with disk in top. (1.830 meters or 6.004 feet.)

A 53.—About 2.3 miles northwest of Freeport, Brazoria County, 50 meters (164 feet) south of the track of the Houston & Brazos Valley Railway, on the east side of the south concrete abutment of a highway bridge, 3 feet above the ground. A brass disk. (1.157 meters or 3.796 feet.)

B 53.—At Freeport, Brazoria County, on the east side of the south concrete abutment of the drawbridge of the Houston & Brazos Valley Railway over the Brazos River. A brass disk. (5.098 meters or 16.726 feet.)

C 53.—At Freeport, Brazoria County, 2 blocks east of the drawbridge of the Houston & Brazos Valley Railway over the Brazos River, in the southeast corner of a schoolhouse, 4 feet above the ground. A brass disk. (3.663 meters or 12.018 feet.)

D 53.—At Freeport, Brazoria County, opposite the northeast corner of the main plaza, in the southwest corner of Toby's Hardware Co. building. A brass disk. (2.895 meters or 9.498 feet.)

E 53.—At Freeport, Brazoria County, in the southeast corner of the Freeport National Bank Building, 4 feet above the sidewalk. A brass disk. (2.646 meters or 8.681 feet.)

Tidal B. M. No. 4.—At Quintana, Brazoria County, the top (at the right angle bend) of the 3-inch iron pipe carrying the flow from the artesian well which is located in a small pond where there is a watering trough for cattle. (1.996 meters or 6.549 feet.)

End of spur line.

F 53.—About 1.6 miles northeast of Angleton, Brazoria County, 14 telegraph poles northeast of milepost 322 of the St. Louis, Brownsville & Mexico Railway, 3 meters southeast of the center of the track, in the top surface of a concrete culvert. A brass disk. (7.548 meters or 24.764 feet.)

G 53.—About 2.6 miles northeast of Angleton, Brazoria County, 17 telegraph poles northeast of milepost 323 of the St. Louis, Brownsville & Mexico Railway and 3 meters northwest of the track at about the middle point of the first curve northeast of Angleton, a plate in the top surface of a concrete culvert. A brass disk. (6.904 meters or 22.651 feet.)

H 53.—About 4.2 miles northeast of Angleton, Brazoria County, 1 telegraph pole northeast of milepost 325 of the St. Louis, Brownsville & Mexico Railway

and 8 meters southeast of the track. A concrete post with disk in top. (5.618 meters or 18.415 feet.)

I 53.—At Danbury, Brazoria County, 1 meter south of the south wall of the station of the St. Louis, Brownsville & Mexico Railway and 8 meters west of the track. A concrete post with disk in top. (7.461 meters or 24.478 feet.)

J 53.—At Danbury, Brazoria County, halfway between the third and fourth telegraph poles northeast of the station of the St. Louis, Brownsville & Mexico Railway and 3 meters east of the track, in the northwest corner of the concrete foundation of the pump house. A brass disk. (7.440 meters or 24.400 feet.)

K 53.—About 1.5 miles northeast of Danbury, Brazoria County, 4 telegraph poles southwest of milepost 329 of the St. Louis, Brownsville & Mexico Railway and 30 meters (98 feet) southeast of the track, in the top surface at the south-west end of the concrete abutment of a highway bridge. A brass disk. (5.805 meters or 19.045 feet.)

L 53.—About 2.6 miles northeast of Danbury, Brazoria County, 60 meters (197 feet) southeast of milepost 330 of the St. Louis, Brownsville & Mexico Railway, 30 meters (98 feet) southeast of the track and 60 meters (197 feet) west of a white house, on the top surface of the west side of, a concrete culvert on the highway. A brass disk. (7.739 meters or 25.390 feet.)

M 53.—About 1.9 miles southwest of Liverpool, Brazoria County, 30 meters (98 feet) southeast of trestle 331.5 of the St. Louis, Brownsville & Mexico Railway and 30 meters (98 feet) southeast of the track, on the west side of the south concrete abutment of a highway bridge. A brass disk. (8.029 meters or 26.342 feet.)

N 53.—At Liverpool, Brazoria County, 8 meters southwest of the station of the St. Louis, Brownsville & Mexico Railway and 8 meters northwest of the track. A concrete post with disk in top. (6.341 meters or 20.804 feet.)

O 53.—At Liverpool, Brazoria County, 60 meters (197 feet) northeast of the station of the St. Louis, Brownsville & Mexico Railway and 30 meters (98 feet) southeast of the track, on the south end of a concrete culvert on the highway. A brass disk. (6.538 meters or 21.450 feet.)

P 53.—At Chocolate Bayou, Brazoria County, 20 meters (66 feet) northwest of the station of the St. Louis, Brownsville & Mexico Railway, 40 meters (131 feet) southwest of a wagon-road crossing, and 15 meters (49 feet) northwest of the track. A concrete post with disk in top. (7.640 meters or 25.066 feet.)

Q 53.—At Pyeatt, Brazoria County, 3 meters (10 feet) northwest of the station board of the St. Louis, Brownsville & Mexico Railway, 440 meters (1,444 feet) northeast of a wagon-road crossing, and 7 meters northwest of the track. A concrete post with disk in top. (8.249 meters or 27.064 feet.)

R 53.—In Brazoria County, about 3.2 miles southwest of Algoa, Galveston County, 2 meters (7 feet) south of milepost 340 of the St. Louis, Brownsville & Mexico Railway, 620 meters (2,034 feet) southwest of a gravel-road crossing, and 10 meters northwest of the track. A concrete post with disk in top. (10.155 meters or 33.317 feet.)

S 53.—At Algoa, Galveston County, in the southeast corner of the station of the Gulf, Colorado & Santa Fe Railway, 4 feet above the ground. A brass disk. (12.945 meters or 42.470 feet.)

T 53.—At Algoa, Galveston County, 75 meters (246 feet) northeast of the station of the Gulf, Colorado & Santa Fe Railway, 1 meter north of the highway, in the top surface of a concrete block, 2 by 2 feet. A brass disk. (11.536 meters or 37.848 feet.)

U 53.—At Algoa, Galveston County, in the brick wall in the southwest corner of the Algoa school building, 5 feet above the ground. A brass disk. (11.017 meters or 36.145 feet.)

V 53.—About 1.9 miles northwest of Algoa, in Brazoria County, 2 telegraph poles southeast of milepost 26 of the Gulf, Colorado & Santa Fe Railway, in the west top surface of a concrete culvert on the highway. A brass disk. (11.861 meters or 38.914 feet.)

W 53.—About 1 mile east of Alvin, Brazoria County, halfway between the ninth and tenth telegraph poles east of milepost 28 of the Gulf, Colorado & Santa Fe Railway and 2 meters north of the track, a plate in the top surface of the northeast end of a concrete culvert underneath the tracks, 4 inches from end. A brass disk. (13.026 meters or 42.736 feet.)

X 53.—At Alvin, Brazoria County, 150 meters (492 feet) west of the station of the Gulf, Colorado & Santa Fe Railway and 100 meters (328 feet) south of

the track, in the brick wall on the northeast corner of the S. Jones Building. A brass disk. (15.693 meters or 51.486 feet.)

Y 53.—At **Alvin**, Brazoria County, 100 feet west of the State Bank Building in the front brick wall of a building owned by the Drake estate on Gordon and Sealey Streets. A brass disk. (15.490 meters or 50.820 feet.)

Z 53.—At **Alvin**, Brazoria County, on Gordon and Sealey Streets, in the brick wall 6 feet west of the entrance and in the southwest corner of the Farmers State Bank Building, 4 feet above the ground. A brass disk. (15.471 meters or 50.758 feet.)

A 54.—About 1.9 miles north of **Alvin**, Brazoria County, 3 telegraph poles south of milepost 2 of the Gulf, Colorado & Santa Fe Railway, 15 meters (49 feet) southwest of a wagon-road crossing, and 12 meters (39 feet) west of the track. A concrete post with disk in top. (12.561 meters or 41.211 feet.)

B 54.—At **Hastings**, Brazoria County, 65 meters (213 feet) south of the station board of the Gulf, Colorado & Santa Fe Railway, 1 telegraph pole north of milepost 4, and 15 meters (49 feet) west of the track. A concrete post with disk in top. (13.302 meters or 43.642 feet.)

C 54.—About 1.5 miles north of **Hastings**, Brazoria County, 16 telegraph poles north of milepost 5 of the Gulf, Colorado & Santa Fe Railway and 20 meters (66 feet) southwest of a wagon-road crossing. A concrete post with disk in top. (13.946 meters or 45.755 feet.)

D 54.—About 2 miles south of **Pearland**, Brazoria County, 30 meters (98 feet) west of milepost 8 of the Gulf, Colorado & Santa Fe Railway, and 15 meters (49 feet) west of the track. A concrete post with disk in top. (15.070 meters or 49.442 feet.)

E 54.—At **Pearland**, Brazoria County, 30 meters (98 feet) north of the station of the Gulf, Colorado & Santa Fe Railway, and 10 meters (33 feet) east of the track. A concrete post with disk in top. (16.082 meters or 52.762 feet.)

F 54.—About 2 miles north of **Pearland**, in **Harris County**, 3 telegraph poles south of milepost 12 of the Gulf, Colorado & Santa Fe Railway, 60 meters (197 feet) south of a wagon-road crossing, and 15 meters (49 feet) west of the track. A concrete post with disk in top. (15.477 meters or 50.777 feet.)

G 54.—At **Mykawa**, **Harris County**, 30 meters (98 feet) northwest of the station of the Gulf, Colorado & Santa Fe Railway and 20 meters (66 feet) southwest of a wagon-road crossing. A concrete post with disk in top. (16.826 meters or 55.203 feet.)

H 54.—About 7.6 miles south of the Union Station at **Houston**, **Harris County**, halfway between the second and third telegraph poles south of milepost 17 of the Gulf, Colorado & Santa Fe Railway, 12 meters (39 feet) northeast of a wagon-road crossing, and 10 meters (33 feet) east of the track. A concrete post with disk in top. (13.540 meters or 44.452 feet.)

I 54.—About 4.8 miles south of the Union Station at **Houston**, **Harris County**, on the Gulf, Colorado & Santa Fe Railway, 300 meters (984 feet) north of where it crosses the Galveston, Harrisburg & San Antonio Railway, in the top surface on the east side of a large concrete culvert. A brass disk. (13.565 meters or 44.505 feet.)

J 54.—About 4 miles south of the Union Station at **Houston**, **Harris County**, on the Gulf, Colorado & Santa Fe Railway, in the new south yards, 130 meters (426 feet) south of the switch tower, in east face of an old foundation concrete block, 2 by 2 by 6 feet. A brass disk. (13.736 meters or 45.066 feet.)

K 54.—About 2.5 miles south of the Union Station at **Houston**, **Harris County**, 2 meters west of the track of the Gulf, Colorado & Santa Fe Railway, in the south face of the south concrete pier of the Interurban Railroad overhead crossing, 3 feet above the ground. A brass disk. (14.897 meters or 48.875 feet.)

L 54.—At **Houston**, **Harris County**, near crossing of Gulf, Colorado & Santa Fe Railway on **Sampson Street**, in the brick wall in the south corner of **Waddell's House Furnishing Co.** store, 4 feet above the ground. A brass disk. (15.881 meters or 52.103 feet.)

M 54.—At **Houston**, **Harris County**, in the Union Station at **Texas Avenue** and **Crawford Street**, in the north face of the easternmost pillar at the **Crawford Street** entrance. A brass disk. (16.649 meters or 54.623 feet.)

N 54.—At **Houston**, **Harris County**, at the corner of **San Jacinto** and **Capitol Streets**, in the northeast corner of the new post-office building, 3 feet above the ground. A brass disk. (17.398 meters or 57.080 feet.)

O 54.—At Houston, Harris County, at Texas Avenue and Main Street, in the northwest corner of the Rice Hotel, 4 feet above the ground. A brass disk. (17.112 meters or 56.142 feet.)

P 54.—At Houston, Harris County, at the corner of San Jacinto and Congress Streets, in the east corner of the county courthouse, 2 feet above the ground. A brass disk. (16.127 meters or 52.910 feet.)

Q 54.—At Houston, Harris County, near the northeast corner of Nance Avenue and Semmes Street, 2 meters west of the Southern Pacific Railroad tracks, in the top surface of the concrete foundation of the signal block. A brass disk. (13.588 meters or 44.573 feet.)

R 54.—At Houston, Harris County, half a mile west of milepost 360 of the Southern Pacific Railroad, 7 telegraph poles west of Clark Street, in the top surface of the north abutment of the concrete foundation of the signal block across the track. A brass disk. (16.111 meters or 52.858 feet.)

S 54.—At Houston, Harris County, about 200 meters (656 feet) southeast of the Southern Pacific Railroad crossing at Cushing Avenue, on the north side of the west entrance to the Thew School, 4 feet above the ground. A brass disk. (16.312 meters or 53.517 feet.)

Additional bench marks at Houston, Tex., on pages 40 and 110.

T 54.—About 21 telegraph poles east of Englewood, Harris County, in the northeast corner of the concrete foundation of the switch tower at the crossing of the Southern Pacific Railroad and the Houston Belt & Terminal Railway, 3 feet above the ground. A brass disk. (14.133 meters or 46.368 feet.)

U 54 (U. S. G. S.).—About 0.6 mile west of Greens, Harris County, 40 meters (131 feet) south of the track of the Southern Pacific Railroad, 250 meters (820 feet) east of the switch for a side track, 15 meters (49 feet) north of the house owned by George Jones and 1 meter south of the highway. An iron pipe stamped "Prim. Trav. Sta. No. 157, 1915." (14.288 meters or 46.877 feet.)

V 54.—About 0.4 mile east of Greens, Harris County, halfway between the twelfth and thirteenth telegraph poles west of milepost 353 of the Southern Pacific Railroad, 25 meters (82 feet) south of trestle No. 353A and 25 meters (82 feet) south of the track on the top surface at the north end of a concrete highway culvert. A brass disk. (12.532 meters or 41.115 feet.)

W 54 (U. S. G. S.).—About 1 mile east of Greens, Harris County, 10 telegraph poles east of milepost 353 of the Southern Pacific Railroad, 170 meters (558 feet) east of the steel bridge over Greens Bayou, 8 meters south of the highway, and 40 meters (131 feet) south of the track, in the top surface on the north end of a concrete culvert. An outlined square painted "U. S. B. M. 365." (11.276 meters or 36.995 feet.)

X 54 (U. S. G. S.).—About 2 miles east of Greens, Harris County, halfway between the eighth and ninth telegraph poles east of milepost 352 of the Southern Pacific Railroad, 3 meters south of the highway and 13 feet west of a pine tree painted "U. S. P. B. M." An iron pipe stamped "Prim. Trav. Sta. No. 156, 1915." (13.056 meters or 42.835 feet.)

Y 54.—About 1.3 miles west of Fauna, Harris County, 1 telegraph pole west of milepost 351 of the Southern Pacific Railroad and 30 meters (98 feet) south of the track, in the top surface on the east side of the south brick abutment of a highway culvert. A brass disk. (13.430 meters or 44.062 feet.)

Z 54.—About 0.6 mile west of Fauna, Harris County, 6 telegraph poles west of milepost 350 of the Southern Pacific Railroad and 20 meters (66 feet) south of trestle 350A, about 20 meters (66 feet) south of the track in the top surface on the west side of the north brick abutment of a highway culvert. A brass disk. (13.925 meters or 45.688 feet.)

A 55.—About 2.2 miles east of Fauna, Harris County, 12 telegraph poles west of milepost 347 of the Southern Pacific Railroad, 40 meters (131 feet) south of trestle 347A and 15 meters (49 feet) south of the highway, in the top surface of a discarded concrete engine foundation 3 by 8 by 3 feet. A brass disk. (15.158 meters or 49.731 feet.)

B 55 (U. S. G. S.).—About 1.2 miles west of Sheldon, Harris County, halfway between the seventeenth and eighteenth telegraph poles east of milepost 347 of the Southern Pacific Railroad, 3 meters south of highway and 30 meters (98 feet) south of the track. An iron pipe stamped "Prim. Trav. Sta. No. 150, 1915." (13.811 meters or 45.312 feet.)

C 55.—At Sheldon, Harris County, 0.5 mile west of the station of the Southern Pacific Railroad, 3 telegraph poles east of milepost 346 and 40 meters (131

feet) south of the tracks at a switch, 1 foot east of entrance to the Sheldon School, on the horizontal surface of a concrete stairway. A brass disk. (15.354 meters or 50.374 feet.)

D 55.—At Sheldon, Harris County, 120 meters (394 feet) east of the station of the Southern Pacific Railroad and 30 meters (98 feet) south of the track, in the top surface on the north end of a brick highway culvert abutment. A brass disk. (15.750 meters or 51.673 feet.)

E 55.—About 1.6 miles west of Crosby, Harris County, about 0.6 mile east of the eastern end of the trestle of the Southern Pacific Railroad over the San Jacinto River, 6 telegraph poles east of milepost 343 and 10 meters (33 feet) south of the track. A concrete post with disk in top. (7.497 meters or 24.596 feet.)

F 55.—At Crosby, Harris County, 100 feet south of the station of the Southern Pacific Railroad, in the southeast corner of the Crosby State Bank Building, 3 feet above the ground. A brass disk. (14.675 meters or 48.146 feet.)

G 55 (U. S. G. S.).—At Crosby, Harris County, 100 meters (328 feet) south of the station of the Southern Pacific Railroad, on the top of and 6 inches from the north end of the east concrete culvert guard wall. An outlined square painted "U. S. B. M. 341." (15.051 meters or 49.380 feet.)

H 55.—At Crosby, Harris County, about 300 meters (984 feet) east of the station of the Southern Pacific Railroad and 150 meters (492 feet) south of the track, in the center of the top surface on the north end of a concrete highway culvert. A brass disk. (14.501 meters or 47.575 feet.)

I 55.—At Crosby, Harris County, 11 telegraph poles east of milepost 341 of the Southern Pacific Railroad and 10 meters (33 feet) south of the track, at a turn of the highway, on the north side of a concrete highway culvert. A brass disk. (15.641 meters or 51.316 feet.)

J 55 (U. S. G. S.).—About 3.3 miles east of Crosby, Harris County, 16 telegraph poles east of milepost 338 of the Southern Pacific Railroad, 20 meters (66 feet) northwest of Adlong School and 30 meters (98 feet) south of the track. An iron pipe stamped "Prim. Trav. Sta. No. 201, 1915." (15.726 meters or 51.594 feet.)

K 55 (U. S. G. S.).—About 6 miles east of Crosby, Harris County, 3 telegraph poles west of trestle No. 334A of the Southern Pacific Railroad, 10 telegraph poles east of milepost 335, 1 meter (3 feet) south of the highway, 100 meters (328 feet) west of the county line, and 30 meters (98 feet) south of the track. An iron pipe stamped "Prim. Trav. Sta. No. 202, 1915." (16.703 meters or 54.800 feet.)

L 55.—About 6.5 miles east of Crosby, Harris County, 15 telegraph poles east of milepost 335 of the Southern Pacific Railroad in Liberty County, 150 meters (492 feet) east of the county line, opposite trestle No. 334A and 100 meters (328 feet) south of the track, in the top surface on the east side of the south abutment of a concrete highway culvert. A brass disk. (17.542 meters or 57.552 feet.)

M 55.—At Walley, Liberty County, 40 meters (131 feet) south of the section house of the Southern Pacific Railroad, 1 meter east of a fence gate and 20 meters (66 feet) south of the track. A concrete post with disk in top. (19.472 meters or 63.884 feet.)

N 55.—About 1.9 miles east of Walley, Liberty County, halfway between the first and second telegraph poles west of milepost 332 of the Southern Pacific Railroad, 15 meters (49 feet) south of trestle No. 332A and 15 meters (49 feet) south of the tracks, in the north side of the east concrete abutment on the highway. A brass disk. (20.013 meters or 65.659 feet.)

O 55.—About 1 mile west of Stilson, Liberty County, 8 telegraph poles east of milepost 331 of the Southern Pacific Railroad, 30 meters (98 feet) south of trestle No. 330A and 30 meters (98 feet) south of the track, in the top surface on the north side of the east concrete abutment of a highway bridge. A brass disk. (20.066 meters or 65.833 feet.)

P 55.—At Stilson, Liberty County, 20 meters (66 feet) west of the station of the Southern Pacific Railroad, 7 telegraph poles east of milepost 330 and 10 meters (33 feet) south of the track. A concrete post with disk in top. (21.190 meters or 69.521 feet.)

Q 55.—About 0.9 mile east of Stilson, Liberty County, 25 meters (82 feet) south of milepost 329 of the Southern Pacific Railroad and 30 meters (98 feet) south of trestle No. 329A and 30 meters (98 feet) south of the track, in the top surface of the east corner of the north concrete abutment of a highway culvert. A brass disk. (21.916 meters or 71.903 feet.)

R 55.—About 1 mile west of Dayton, Liberty County, 13 telegraph poles west of milepost 328 of the Southern Pacific Railroad and 20 meters (66 feet) south of trestle No. 328A and 20 meters (66 feet) south of the track, in the north side of the east concrete abutment of a highway bridge. A brass disk. (22.358 meters or 73.353 feet.)

S 55 (U. S. G. S.).—At Dayton, Liberty County, about 500 meters (1,640 feet) south of the railroad crossing on the Southern Pacific Railroad, in the top surface on the north side of the east abutment of a concrete highway culvert on the Houston-Liberty highway at the fork, west of Liberty. A disk. (24.152 meters or 79.239 feet.)

T 55.—At Dayton, Liberty County, about 100 meters (328 feet) west of the station of the Southern Pacific Railroad and 40 meters (131 feet) south of the track, in the front wall of the brick building occupied by the Dayton Mercantile Co. A brass disk. (25.395 meters or 83.317 feet.)

U 55.—At Dayton, Liberty County, about 100 meters (328 feet) west of the station of the Southern Pacific Railroad and 100 meters (328 feet) south of the track, in the front wall in the northwest corner of the building occupied by the Dayton Hardware Co., 3 feet above the ground. A brass disk. (25.777 meters or 84.570 feet.)

V 55.—At Dayton, Liberty County, about 120 meters (394 feet) south of the Southern Pacific Railroad station, in the northeast corner of the Dayton State Bank Building. A brass disk. (25.750 meters or 84.481 feet.)

W 55.—About 1.5 miles east of Dayton, Liberty County, 30 meters (98 feet) north of trestle No. 825A of the Southern Pacific Railroad, in the center of the top surface on the south end of the east concrete abutment of a highway bridge. A brass disk. (8.330 meters or 27.329 feet.)

X 55.—At Liberty, Liberty County, on the top surface on the south side of the west concrete abutment of the Southern Pacific Railroad bridge over the Trinity River. A brass disk. (8.685 meters or 28.494 feet.)

Y 55.—At Liberty, Liberty County, 120 meters (394 feet) north of the track of the Southern Pacific Railroad, 3 feet west of south entrance to the Liberty Public School, on the horizontal surface of the concrete stairway. A brass disk. (11.111 meters or 36.453 feet.)

Z 55.—At Liberty, Liberty County, in the brick wall 2 feet south of the east entrance to the county courthouse, 3 feet above the ground. A brass disk. (11.417 meters or 37.457 feet.)

A 56.—At Liberty, Liberty County, in the brick wall in the southwest corner of the Masonic Lodge Building, 3 feet above the ground. A brass disk. (11.164 meters or 36.627 feet.)

B 56.—At Liberty, Liberty County, in the southwest corner of the brick post-office building, 4 feet above the ground. A brass disk. (11.726 meters or 38.471 feet.)

C 56.—About 1.9 miles east of Liberty, Liberty County, 6 telegraph poles east of milepost 319 of the Southern Pacific Railroad, 30 meters (98 feet) northeast of mile board for Ames Station, 15 meters (49 feet) west of trestle No. 318C and 15 meters (49 feet) north of the track. A concrete post with disk in top. (11.721 meters or 38.455 feet.)

D 56.—At Ames, Liberty County, 80 meters (262 feet) east of station board of the Southern Pacific Railroad, 5 meters east of a wagon-road crossing and 10 meters (33 feet) north of the track. A concrete post with disk in top. (22.655 meters or 74.327 feet.)

E 56.—About 2.1 miles east of Ames, Liberty County, 21 telegraph poles east of milepost 310 of the Southern Pacific Railroad, 5 telegraph poles west of trestle No. 315A and 25 meters (82 feet) south of the track. A concrete post with disk in top. (21.280 meters or 69.816 feet.)

F 56.—About 1 mile west of Raywood, Liberty County, 30 meters (98 feet) southwest of milepost 314 of the Southern Pacific Railroad and 30 meters (98 feet) south of trestle No. 314A, in the north corner of the west concrete abutment of a highway bridge. A brass disk. (19.471 meters or 63.881 feet.)

G 56.—At Raywood, Liberty County, 320 meters (1,050 feet) west of the station of the Southern Pacific Railroad and 70 meters (230 feet) south of the track, in the northwest corner of the brick foundation, 3 feet above the ground. A brass disk. (20.086 meters or 65.899 feet.)

H 56.—At Raywood, Liberty County, 120 meters (394 feet) east of the Southern Pacific Railroad station, and 30 meters (98 feet) south of the track, in the east top surface of the north concrete guardrail of a highway bridge. A brass disk. (19.497 meters or 63.963 feet.)

I 56.—About 0.6 mile east of **Raywood**, Liberty County, 23 telegraph poles east of milepost 313 of the Southern Pacific Railroad, 35 meters (115 feet) south of trestle No. 312A, in the south corner of the west concrete abutment of a highway culvert. A brass disk. (18.948 meters or 62.165 feet.)

J 56.—About 1.8 miles east of **Raywood**, Liberty County, 14 telegraph poles west of milepost 311 of the Southern Pacific Railroad and 40 meters (131 feet) south of trestle No. 311C, in the north top surface of the west concrete abutment of a highway bridge. A brass disk. (18.209 meters or 59.741 feet.)

K 56.—About 2.4 miles west of **Devers**, Liberty County, 16 telegraph poles east of milepost 311 of the Southern Pacific Railroad and 35 meters (115 feet) south of the track, in the north top surface of a concrete highway culvert. A brass disk. (17.649 meters or 57.903 feet.)

L 56.—At **Devers**, Liberty County, 20 meters (66 feet) west of the Southern Pacific Railroad station and 10 meters (33 feet) north of the track. A concrete post with disk in top. (17.786 meters or 58.353 feet.)

M 56.—About 3.1 miles east of **Devers**, Liberty County, 6 telegraph poles west of milepost 305 of the Southern Pacific Railroad, 40 meters (131 feet) southeast of the section house, and 5 meters south of the track. A concrete post with disk in top. (16.381 meters or 53.743 feet.)

N 56.—At **Felicia**, Liberty County, 20 meters (66 feet) east of the Southern Pacific Railroad station and 10 meters (33 feet) south of the track. A concrete post with disk in top. (14.676 meters or 48.150 feet.)

O 56.—About 2.3 miles east of **Felicia**, Liberty County, 4 telegraph poles east of milepost 301 of the Southern Pacific Railroad, in the concrete base of signal block No. 301. A brass disk. (14.652 meters or 48.071 feet.)

P 56.—At **Nome**, Jefferson County, 30 meters (98 feet) west of the Southern Pacific Railroad station and 10 meters (33 feet) north of the track. A concrete post with disk in top. (12.896 meters or 42.310 feet.)

Q 56.—About 2.1 miles east of **Nome**, Jefferson County, 40 meters (131 feet) northeast of milepost 296 of the Southern Pacific Railroad, 80 meters (262 feet) southeast of a frame house and 10 meters (33 feet) north of the track. A concrete post with disk in top. (13.425 meters or 44.045 feet.)

R 56.—At **China**, Jefferson County, 20 meters (66 feet) south of the Southern Pacific Railroad station, 20 meters (66 feet) northwest of the section house and 10 meters (33 feet) south of the track. A concrete post with disk in top. (12.620 meters or 41.404 feet.)

S 56.—At **China**, Jefferson County, 140 meters (459 feet) east of the Southern Pacific Railroad station and 12 meters (39 feet) south of the track, in the northeast corner of the concrete foundation of a warehouse, 2 feet above the ground. A brass disk. (13.052 meters or 42.821 feet.)

T 56.—About 2.5 miles east of **China**, Jefferson County, 12 telegraph poles west of milepost 290 of the Southern Pacific Railroad, 5 meters west of a wagon-road crossing, and 10 meters (33 feet) south of the track. A concrete post with disk in top. (8.532 meters or 27.992 feet.)

U 56.—At **Pine Island**, Jefferson County, 8 meters west of the Southern Pacific Railroad station and 8 meters south of the track. A concrete post with disk in top. (10.642 meters or 34.915 feet.)

V 56.—At **Pine Island**, Jefferson County, 660 meters (2,165 feet) east of the Southern Pacific Railroad station and 20 meters (66 feet) south of the track, 10 feet west of the northeast corner of the concrete foundation of a warehouse, and 1 foot above the ground. A brass disk. (10.455 meters or 34.301 feet.)

W 56.—About 2.5 miles east of **Pine Island**, Jefferson County, 8 meters south of milepost 286 of the Southern Pacific Railroad, 100 meters (328 feet) north of a group of farmhouses, 16 meters (52 feet) southwest of a wagon-road crossing and 15 meters (49 feet) south of the track. A concrete post with disk in top. (8.968 meters or 29.423 feet.)

X 56.—About 0.3 mile west of **Amelia**, Jefferson County, 10 telegraph poles west of milepost 284 of the Southern Pacific Railroad, 20 meters (66 feet) south of trestle No. 284B, in the north top surface of a concrete highway culvert. A brass disk. (9.149 meters or 30.016 feet.)

Y 56.—At **Amelia**, Jefferson County, 300 meters (984 feet) north of the Southern Pacific Railroad station, in the west top surface of a concrete highway culvert. A brass disk. (9.223 meters or 30.259 feet.)

Z 56.—At **Amelia**, Jefferson County, in the brick wall, 3 feet above the ground and 4 feet north of the west entrance to the Amelia public school building. A brass disk. (9.676 meters or 31.745 feet.)

A 57.—About 1.5 miles west of Beaumont, Jefferson County, in the northeast corner of the concrete base of the switch tower at the crossing of the Beaumont, Sour Lake & Western Railway with the Southern Pacific Railroad. A brass disk. (5.987 meters or 19.642 feet.)

B 57.—At Beaumont, Jefferson County, in the brick wall, 3 feet above the ground in front of the signal window on the south side of the Southern Pacific Railroad station. A brass disk. (7.771 meters or 25.495 feet.)

C 57.—At Beaumont, Jefferson County, at the corner of Orleans and Crockett Streets, 3 feet east of the south entrance to the Crosby house. A brass disk. (7.791 meters or 25.561 feet.)

D 57.—At Beaumont, Jefferson County, at the Pearl Street crossing of the Southern Pacific Railroad, 15 feet east of the southwest corner of the Ogden Hotel, 3 feet above the ground. A brass disk. (7.704 meters or 25.276 feet.)

E 57.—At Beaumont, Jefferson County, at the corner of Pearl and Bonham Streets, in the southwest corner of the post-office building. A brass disk. (7.158 meters or 23.484 feet.)

F 57.—At Beaumont, Jefferson County, in the west face of the Gulf National Bank Building, 6 feet north of the entrance and 3 feet above the ground. A brass disk. (7.071 meters or 23.199 feet.)

G 57.—At Beaumont, Jefferson County, a copper bolt in the west abutment of the bridge of the Southern Pacific Railroad over the Neches River. U. S. B. M. (6.095 meters or 19.997 feet)

H 57 (U. S. G. S.).—At Beaumont, Jefferson County, in the west abutment of the bridge of the Southern Pacific Railroad over the Neches River. A disk. (2.418 meters or 7.933 feet.)

I 57.—At Beaumont, Jefferson County, about 300 meters (984 feet) south of the crossing of the Southern Pacific and the East Texas Railroads, in the southeast corner of the McFaddin-Wiess-Kyle Rice Milling Co. Building. A brass disk. (7.944 meters or 26.063 feet.)

Spur line, Beaumont to Sabine, Tex.

J 57.—At Beaumont, Jefferson County, halfway between the fifth and sixth telegraph poles south of milepost 28 of the Texas & New Orleans Railroad, 15 meters (49 feet) northwest of a wagon-road crossing and 10 meters (33 feet) west of the track. A concrete post with disk in top. (6.762 meters or 22.185 feet.)

K 57.—At Guffey, Jefferson County, 60 meters (197 feet) north of the station of the Texas & New Orleans Railroad and 10 meters (33 feet) west of the track, in the northeast corner of the section-house yard. A concrete post with disk in top. (4.968 meters or 16.299 feet.)

L 57.—About 1 mile south of Guffey, Jefferson County, 0.3 mile south of milepost 25 of the Texas & New Orleans Railroad and 30 meters (98 feet) west of the track, in the northeast corner of the brick pump house of the Magnolia Petroleum Co. A brass disk. (6.338 meters or 20.794 feet.)

M 57.—At Herbert, Jefferson County, in the southeast brick pier of the Texas & New Orleans Railroad station, 2 feet above the ground. A brass disk. (5.866 meters or 19.245 feet.)

N 57.—At Viterbo, Jefferson County, 40 meters (131 feet) northeast of station board of the Texas & New Orleans Railroad and 20 meters (66 feet) east of the track, in the northwest brick foundation pier of a warehouse. A brass disk. (4.647 meters or 15.246 feet.)

O 57.—At Delphine, Jefferson County, 475 meters (1,558 feet) north of milepost 18 of the Texas & New Orleans Railroad, 50 meters (164 feet) north of the station board, 14 meters (46 feet) southwest of a wagon-road crossing, and 12 meters (39 feet) west of the track. A concrete post with disk in top. (2.359 meters or 7.739 feet.)

P 57.—At Elvista, Jefferson County, 35 meters (115 feet) south of station-board of the Texas & New Orleans Railroad, 12 meters (39 feet) northwest of a wagon-road crossing and 10 meters (33 feet) west of the tracks. A concrete post with disk in top. (1.848 meters or 6.063 feet.)

Q 57.—About 1.2 miles north of West Port Arthur, Jefferson County, 13 telegraph poles north of milepost 13 of the Texas & New Orleans Railroad, 15 meters (49 feet) northwest of the oil pipe-line crossing and cattle gaps and 10 meters (33 feet) west of the track. A concrete post with disk in top. (0.852 meter or 2.795 feet.)

R 57.—At West Port Arthur, Jefferson County, 100 meters (328 feet) north of the track of the Texas & New Orleans Railroad and 100 meters (328 feet) north of the highway, in the southwest corner of the "White Oil" building of the Gulf Refining Co. plant. A brass disk. (1.733 meters or 5.686 feet.)

S 57.—At West Port Arthur, Jefferson County, 50 meters (164 feet) south of the track of the Texas & New Orleans Railroad, in northeast corner of the brick "Chilling Plant" building of the Gulf Refining Co. A brass disk. (1.824 meters or 5.984 feet.)

T 57.—At West Port Arthur, Jefferson County, about 40 meters (131 feet) west of the brick "Chilling Plant" building of the Gulf Refining Co., 10 meters (33 feet) south of the highway. A Gulf Refining Co. bench mark consisting of an 8-inch iron pipe filled with concrete and with a copper plate about 1 inch in diameter on top. (0.689 meter or 2.260 feet.)

U 57.—At West Port Arthur, Jefferson County, 150 meters (492 feet) east of the station of the Texas & New Orleans Railroad, in the northwest corner of the Gulf Refining Co.'s pump house No. 13. A brass disk. (2.045 meters or 6.709 feet.)

V 57.—At West Port Arthur, Jefferson County, 20 meters (66 feet) south of station of the Texas & New Orleans Railroad and 2 meters east of the track, in the top surface of the concrete sea wall at the north end of the drawbridge. A brass disk. (3.016 meters or 9.895 feet.)

W 57.—At Round Lake, Jefferson County, 5 telegraph poles north of the station board of the Texas & New Orleans Railroad, 100 meters (328 feet) south of north switch point and 10 meters (33 feet) west of the track. A concrete post with disk in top. (1.223 meters or 4.012 feet.)

X 57.—At Keith Lake, Jefferson County, 40 meters (131 feet) west of the north end of the Texas & New Orleans Railroad trestle, 80 meters (262 feet) south of the station board and 10 meters (33 feet) east of the highway. A concrete post with a disk in the top. (0.743 meter or 2.438 feet.)

Y 57.—At Sabine Pass, Jefferson County, 60 meters (197 feet) south of the station of the Texas & New Orleans Railroad, 15 meters (49 feet) northeast of a road crossing and 12 meters (39 feet) east of the track. A concrete post with disk in top. (1.126 meters or 3.694 feet.)

Z 57.—At Sabine, Jefferson County, 60 meters (197 feet) northeast of the station of the Texas & New Orleans Railroad, 25 meters (82 feet) southeast of a road crossing and 12 meters (39 feet) east of the track. A concrete post with disk in top. (1.601 meters or 5.253 feet.)

A 58.—At Sabine, Jefferson County, 400 meters (1,312 feet) south of station of the Texas & New Orleans Railroad and 10 meters (33 feet) west of the track, in the northeast corner of the section-house yard. A concrete post with disk in top. (1.489 meters or 4.885 feet.)

B 58.—At Sabine, Jefferson County, 2 blocks west of the station of the Texas & New Orleans Railroad, on north side of the road in southeast corner of the front yard of a two-story frame hotel, the largest building in town. A concrete post with disk in top. (1.661 meters or 5.449 feet.)

C 58.—At Sabine, Jefferson County, in the northeast corner of the concrete wall of the schoolhouse, east of the main entrance and about 4 feet above the ground. A brass disk. (2.099 meters or 6.886 feet.)

End of spur line.

D 58.—At Fletcher, Orange County, 4 telegraph poles west of milepost 276 of the Southern Pacific Railroad, 20 meters (66 feet) east of a trestle, 15 meters (49 feet) south of the track, and 15 meters (49 feet) north of a house. A concrete post with disk in top. (3.521 meters or 11.552 feet.)

E 58.—About 0.2 mile west of a wagon-road crossing at Diana, Orange County, 6 telegraph poles east of milepost 273 of the Southern Pacific Railroad and 10 meters (33 feet) north of the tracks, in the southwest corner of the section-house yard. A concrete post with disk in top. (5.024 meters or 16.483 feet.)

F 58.—At Connell, Orange County, 70 meters (230 feet) west of the station of the Southern Pacific Railroad, 35 meters (115 feet) southeast of a wagon-road crossing and 20 meters (66 feet) south of the track. A concrete post with disk in top. (5.079 meters or 16.663 feet.)

G 58.—About 1.6 mile east of Connell, Orange County, 30 meters (98 feet) west of milepost 270 of the Southern Pacific Railroad, in the top surface of the concrete block-signal base No. 270. A brass disk. (6.734 meters or 22.093 feet.)

H 58.—At Terry, Orange County, 8 telegraph poles east of the station of the Southern Pacific Railroad, 80 meters (262 feet) northwest of milepost 208 and 15 meters (49 feet) north of the track, in the southwest corner of the section-house yard. A concrete post with disk in top. (4.924 meters or 16.155 feet.)

I 58.—At Oilla, Orange County, 15 meters (49 feet) east of the station board of the Southern Pacific Railroad, 12 meters (39 feet) northeast of a wagon-road crossing and 10 meters (33 feet) north of the track. A concrete post with disk in top. (3.810 meters or 12.500 feet.)

J 58.—At Tulane, Orange County, 2 meters (7 feet) south of the track of the Southern Pacific Railroad, in the northwest concrete pier of the railroad water tank, 1 foot above the ground. A brass disk. (3.544 meters or 11.627 feet.)

K 58.—About 1.1 miles east of Tulane, Orange County, 16 telegraph poles east of milepost 262 of the Southern Pacific Railroad and 10 meters (33 feet) north of the track, in the southeast corner of the section house yard. A concrete post with disk in top. (3.848 meters or 12.625 feet.)

L 58.—About 2.8 miles west of Orange, Orange County, 40 meters (131 feet) west of the Orange and Northwestern Railroad and the Southern Pacific Railroad crossing, 30 meters (98 feet) west of the switch tower, and 10 meters (33 feet) south of Southern Pacific track. A concrete post with disk in top. (5.300 meters or 17.388 feet.)

M 58.—At Orange, Orange County, 0.6 mile west of the passenger station of the Southern Pacific Railroad, in the east corner of the south concrete abutment of highway bridge. A brass disk. (2.889 meters or 7.838 feet.)

N 58.—At Orange, Orange County, in the brick wall in the northwest corner of the passenger station of the Southern Pacific Railroad, 3 feet above the ground. A brass disk. (4.388 meters or 14.396 feet.)

O 58.—At Orange, Orange County, 200 meters (656 feet) north of the station of the Southern Pacific Railroad, in the southwest corner of the brick high-school building. A brass disk. (3.421 meters or 11.224 feet.)

P 58.—At Orange, Orange County, 400 meters (1,312 feet) south of station of the Southern Pacific Railroad, in the southwest corner of a granite building, the Lutcher Memorial, First Presbyterian Church. A brass disk. (3.712 meters or 12.178 feet.)

Q 58.—About 2.8 miles east of Orange, Orange County, in the concrete base of signal block No. 254.1 of the Southern Pacific Railroad. A brass disk. (5.417 meters or 17.772 feet.)

R 58.—About 1.1 miles west of Echo, Orange County, 40 meters (131 feet) north of the track of the Southern Pacific Railroad, in the west concrete abutment on the south side of the highway bridge. A brass disk. (2.851 meters or 9.354 feet.)

S 58.—At Echo, Orange County, about 300 meters (984 feet) northwest of the station of the Southern Pacific Railroad, 100 meters (328 feet) southeast of the roundhouse, in the southeast corner of the brick railroad office building. A brass disk. (6.162 meters or 20.216 feet.)

T 58.—At Echo, Orange County, 30 meters (98 feet) west of the station of the Southern Pacific Railroad and 10 meters (33 feet) south of the track. A concrete post with disk in top. (4.644 meters or 15.236 feet.)

U 58.—At Sabine River, Orange County, in the south end of the west abutment of the Southern Pacific Railroad bridge over the Sabine River. A brass disk. (4.384 meters or 14.388 feet.)

LINE XVII, HARLINGEN TO EAGLE PASS, TEX.

This line follows the St. Louis, Brownsville & Mexico Railway from Harlingen to Samfordyce, Tex., thence along the highways paralleling the Rio Grande to Laredo, Tex. The work is then taken up again at Webb, Tex., the section from Laredo to Webb, Tex., over the International & Great Northern Railway being a part of the line San Antonio to Laredo. (See p. 96.) From Webb the highways are followed through Asherton to Eagle Pass, Tex. The field work was done by C. M. Durgin, extra observer, between September 23, 1918, and March 14, 1919.

For bench marks in Harlingen, see page 94.

A 59.—About 1 mile west of Harlingen, Cameron County, 50 meters (164 feet) west of milepost 1 of the St. Louis, Brownsville and Mexico Railway, 15 meters (49 feet) east of a road crossing and 4 meters west of the tracks, in the concrete canal flume. A brass disk. (13.215 meters or 43.356 feet.)

B 59.—At Leeland, Cameron County, 7 telegraph poles west of milepost 3 of the St. Louis, Brownsville and Mexico Railway, 2 meters north of the highway, and 12 meters (39 feet) south of the tracks, directly opposite a small bungalow. A concrete post with disk in top. (13.839 meters or 45.403 feet.)

C 59.—About 0.6 mile west of Leeland, Cameron County, about opposite milepost 5 of the St. Louis, Brownsville and Mexico Railway and 3 meters north of the tracks, in the concrete canal flume. A brass disk. (16.888 meters or 55.407 feet.)

D 59.—About 1.3 miles east of La Feria, Cameron County, near milepost 7 of the St. Louis, Brownsville and Mexico Railway, 10 meters (33 feet) east of a road crossing, 5 meters north of the highway and 10 meters (33 feet) south of the tracks. A concrete post with disk in top. (16.231 meters or 53.415 feet.)

E 59.—At La Feria, Cameron County, 1 meter above the sidewalk in the corner of the Cameron County Bank Building, 1 meter from the entrance. A brass disk. (18.098 meters or 59.377 feet.)

F 59.—About 1.5 miles west of La Feria, Cameron County, 20 meters (66 feet) north of the tracks of the St. Louis, Brownsville & Mexico Railway, in the top of and near the west end of the concrete wall at the end of the canal. A brass disk. (17.942 meters or 58.865 feet.)

V 58.—About 0.5 mile east of Lawrence Spur, Cameron County, and 2.9 miles east of Mercedes, Hidalgo County, 15 meters (49 feet) north of the St. Louis, Brownsville & Mexico Railway and 5 meters (16 feet) north of the highway, directly opposite a house owned by the Irrigation Co. and occupied by Mr. Oldemeyer. A concrete post with disk in top. (19.694 meters or 64.613 feet.)

W 58.—At Lawrence Spur, Cameron County, in the northeast corner of the nearest concrete structure on the north side of the St. Louis, Brownsville & Mexico Railway. A brass disk. (22.267 meters or 73.054 feet.)

X 58.—About 0.5 mile east of Mercedes, Hidalgo County, in the west corner of the curbing of the concrete highway bridge, 25 meters (82 feet) south of the tracks of the St. Louis, Brownsville & Mexico Railway. An outlined square. (18.257 meters or 59.898 feet.)

Y 58.—At Mercedes, Hidalgo County, at the corner of Texas Avenue and Second Street, in the wall facing Texas Avenue of the brick building occupied by the Mercedes Confectionery Co., 10 meters (33 feet) from the northwest corner, and 1.5 meters from the sidewalk. A brass disk. (21.426 meters or 70.295 feet.)

Z 58.—At Mercedes, Hidalgo County, at the corner of Texas Avenue and Third Street, in the wall facing Third Street of the brick building occupied by the Hadden Pharmacy, 6 meters from the northeast corner and 1.5 meters from the sidewalk. A brass disk. (21.465 meters or 70.423 feet.)

G 59.—About 1.9 miles west of Mercedes, Hidalgo County, 11 telegraph poles east of milepost 16 of the St. Louis, Brownsville & Mexico Railway, 5 meters west of a road crossing, and 15 meters (49 feet) north of the tracks. A concrete post with disk in top. (20.079 meters or 65.876 feet.)

H 59.—At Llano Grande, Hidalgo County, 3 telegraph poles east of milepost 17 of the St. Louis, Brownsville & Mexico Railway, 100 meters (328 feet) east of a road crossing, and 10 meters (33 feet) north of the tracks. A concrete post with disk in top. (24.525 meters or 80.462 feet.)

I 59.—About 2.7 miles west of Llano Grande, Hidalgo County, on the south side of the St. Louis, Brownsville & Mexico Railway, in the northwest quarter of a road intersection formed by a road crossing the track and a road running parallel with the track. A concrete post with disk in top. (25.807 meters or 84.668 feet.)

M 59 (triangulation station Donna).—About 0.5 mile southeast of Donna, Hidalgo County, on the west side of a large irrigation canal on land owned by Dr. Roberts, of Donna. A brass disk stenciled "Donna 1913" and set in concrete; it is 32 meters (105 feet) north of the reference mark, 25 meters (82 feet) south of a Mexican jacal and 32 meters (105 feet) east of the longitude pier. (28.744 meters or 94.304 feet.)

J 59 (U. S. G. S.).—At Donna, Hidalgo County, in the southeast corner of the public park. An iron pipe stamped "96 1913." (29.472 meters or 96.693 feet.)

K 59.—At Donna, Hidalgo County, in the front of the First State Bank of Donna. A brass disk. (30.722 meters or 100.794 feet.)

L 59.—About 0.6 mile west of Donna, Hidalgo County, in the top of the canal flume on the north side of the tracks of the St. Louis, Brownsville & Mexico Railway. A brass disk. (29.092 meters or 95.446 feet.)

N 59.—About 2 miles west of Donna, Hidalgo County, opposite milepost 25 of the St. Louis, Brownsville & Mexico Railway and on the south side of the tracks. A concrete post with disk in top. (28.902 meters or 94.823 feet.)

Y 59 (triangulation station San Juan).—About 3.6 miles west of and 0.6 mile north of Donna, Hidalgo County, on a small sand ridge on the west side of a newly opened road which leaves the Donna-Mission road 3.6 miles west of Donna and 0.6 mile north of the St. Louis, Brownsville & Mexico Railway. A brass disk, set in concrete, and 30 meters (98 feet) from the reference mark, which is in the west road fence line. (31.384 meters or 102.966 feet.)

Z 59 (reference mark, triangulation station San Juan).—In the fence line on the west side of a newly opened road, which leaves the Donna-Mission road, 30 meters (98 feet) from triangulation station, San Juan, which is 3.6 miles west of, and 0.6 mile north of Donna, Hidalgo County. A brass disk, set in concrete, with an arrow pointing to the triangulation station. (30.843 meters or 101.191 feet.)

X 59 (U. S. G. S.).—About 0.6 mile east of Ebenezer, Hidalgo County, in the south right-of-way line opposite milepost 27 of the St. Louis, Brownsville & Mexico Railway. An iron post stamped "98 1913." (30.183 meters or 99.025 feet.)

O 59.—At Ebenezer, Hidalgo County, 30 meters (98 feet) south of the station of the St. Louis, Brownsville & Mexico Railway and 4 meters north of the road. A concrete post with disk in top. (30.892 meters or 101.352 feet.)

P 59.—At San Juan, Hidalgo County, in the southeast corner of the San Juan State Bank. A brass disk. (33.642 meters or 110.374 feet.)

Q 59.—About 0.7 mile west of San Juan, Hidalgo County, in concrete, 0.3 meter east of the main entrance to the high-school building, district No. 4. A brass disk. (34.593 meters or 113.494 feet.)

R 59.—At Pharr, Hidalgo County, in the north side of the building, facing the park, and occupied by the Park Front Pharmacy. A brass disk. (35.004 meters or 114.842 feet.)

S 59 (U. S. G. S.).—About 1.3 miles east of McAllen, Hidalgo County, 310 meters (1,017 feet) east of milepost 33 of the St. Louis, Brownsville & Mexico Railway, in the southeast angle of the crossroads. An iron post stamped "115 1913." (35.438 meters or 116.266 feet.)

T 59.—At McAllen, Hidalgo County, in the southeast angle of the streets just southeast of the depot of the St. Louis, Brownsville & Mexico Railway, in the north side of a building. A brass disk. (37.578 meters or 123.287 feet.)

U 59.—At McAllen, Hidalgo County, southwest of the station of the St. Louis, Brownsville & Mexico Railway, in the north side of the building occupied by the Beatty-Folsom Co. A brass disk. (37.633 meters or 123.468 feet.)

V 59 (U. S. G. S.).—About 1.9 miles west of McAllen, Hidalgo County, in the south right-of-way line opposite milepost 36 of the St. Louis, Brownsville & Mexico Railway. An iron post stamped "130 1913." (39.617 meters or 129.977 feet.)

W 59.—About 2 miles west of McAllen, Hidalgo County, in the southwest abutment of the bridge of the St. Louis, Brownsville & Mexico Railway over the canal. An outlined square. (39.745 meters or 130.397 feet.)

A 60 (U. S. G. S.).—About 0.9 mile east of Mission, Hidalgo County, 600 feet east of milepost 39 of the St. Louis, Brownsville & Mexico Railway and 15 meters (49 feet) north of the tracks, in the southeast angle of the crossroads. An iron post stamped "138 1913." (42.010 meters or 137.828 feet.)

B 60.—At Mission, Hidalgo County, in the southwest corner of the Mission State Bank. A brass disk. (43.841 meters or 143.835 feet.)

C 60 (U. S. G. S.).—About 0.4 mile west of Mission, Hidalgo County, on the north side of the tracks of the St. Louis, Brownsville & Mexico Railway, on the top of the north end of the concrete canal siphon. A disk stamped "149 1913." (45.311 meters or 148.658 feet.)

D 60 (U. S. G. S.).—About 2.5 miles west of **Mission**, Hidalgo County, 732 meters (2,400 feet) east of milepost 43 of the St. Louis, Brownsville & Mexico Railway and 15 meters (49 feet) north of the tracks, in the southwest angle of the crossroads. An iron post stamped "133 1913." (40.459 meters or 132.739 feet.)

E 60 (triangulation station Mamie).—About 4 miles west of **Mission**, Hidalgo County, 1 mile west of the siding of the St. Louis, Brownsville & Mexico Railway at **Mamie** and 0.4 mile south of the tracks; 12 meters (39 feet) east of the intersection of the wagon road which crosses the railroad 1 mile west of **Mamie** (0.8 mile by road) and runs south then southwest, with a north-and-south road which is cleared through the brush but ungraded and untraveled. A brass disk set in concrete, 29 meters (95 feet) from the reference mark. (43.131 meters or 141.506 feet.)

F 60 (reference mark, triangulation station, Mamie).—About 4 miles west of **Mission**, Hidalgo County, and 0.4 mile south of the tracks of the St. Louis, Brownsville & Mexico Railway. A brass disk, set in concrete, with an arrow pointing to the triangulation station (see above). (43.000 meters or 141.076 feet.)

G 60 (U. S. G. S.).—About 6.1 miles west of **Mission**, Hidalgo County, in the south right-of-way line opposite milepost 46 of the St. Louis, Brownsville & Mexico Railway. An iron post stamped "124 1913." (37.475 meters or 122.949 feet.)

H 60 (I. B. C.).—Reference point 14 of the International Boundary Commission, and is about 2 miles west of **Closner**, Hidalgo County, about 335 meters (1,100 feet) east of milepost 49 of the St. Louis, Brownsville & Mexico Railway, 6 meters south of the tracks and south of the Monterey ranch house. (37.936 meters or 124.462 feet.)

I 60 (U. S. G. S.).—About 2.2 miles west of **Closner**, Hidalgo County, and 4.4 miles east of **Samfordyce**, Hidalgo County, in the north right-of-way line opposite milepost 49 of the St. Louis, Brownsville & Mexico Railway. An iron post stamped "126 1913." (38.123 meters or 125.075 feet.)

J 60 (triangulation station Pedro).—About 3 miles east of **Samfordyce**, Hidalgo County, and 1 mile north of the **Mission-Riogrande** wagon road; on the hill at the north edge of the Mexican village of **Tabasco** (at the north edge of a small unfenced cemetery), 21 meters (69 feet) east of the main wagon road running north of the village, 14 meters (46 feet) north of and 2 meters east of the monument marking the grave of **Ignacio Trevino**. A brass disk set in concrete, 18 meters (59 feet) from the reference mark. (52.305 meters or 171.604 feet.)

K 60 (reference mark, triangulation station, Pedro).—About 3 miles east of **Samfordyce**, Hidalgo County, and 1 mile north of the **Mission-Riogrande** wagon road; on the hill at the north edge of the Mexican village of **Tabasco**. A brass disk, set in concrete, with an arrow pointing to the triangulation station (see above). (52.334 meters or 171.699 feet.)

L 60 (U. S. G. S.).—At **Havana Village**, Hidalgo County, 15 meters (49 feet) south of the St. Louis, Brownsville & Mexico Railway, 9 meters west of the public highway and 30 meters (98 feet) northeast of the public schoolhouse in the edge of the village. An iron post stamped "130 1913 S." (39.371 meters or 129.170 feet.)

M 60.—At **Samfordyce**, Hidalgo County, 11 meters (36 feet) southeast of the station of the St. Louis, Brownsville & Mexico Railway. A concrete post with disk in top. (42.873 meters or 140.659 feet.)

S 60.—At **Samfordyce**, Hidalgo County, in the southeast corner of a brick building opposite the post office. A brass disk. (49.187 meters or 161.374 feet.)

O 60.—About 0.8 mile west of **Samfordyce**, Hidalgo County, in the top of the southwest pillar of the water tank of the St. Louis, Brownsville & Mexico Railway. An outlined square. (41.306 meters or 135.518 feet.)

N 60.—About 2 miles west of **Samfordyce**, Hidalgo County, 100 meters (328 feet) west of where the St. Louis, Brownsville & Mexico Railway crosses the military road, in the southeast angle of a crossroad. A concrete post with disk in top. (41.916 meters or 137.519 feet.)

P 60.—About 4.7 miles west of **Samfordyce**, Hidalgo County, on the top of a hill, 3 meters south of the military road, opposite a windmill and the old stone foundations of a house. A concrete post with disk in top. (50.255 meters or 164.406 feet.)

Q 60.—About 6.6 miles west of **Samfordyce**, Hidalgo County, 5 meters south of the military road and 2 meters east of an iron telephone pole, the eighth pole east of the road leading toward the river, which road has wooden telephone poles along it. A concrete post with disk in top. (41.032 meters or 137.572 feet.)

R 60.—About 7.8 miles west of **Samfordyce**, Hidalgo County, 5 meters south of the military road and 3 meters east of the seventeenth iron telephone pole east of a road leading to the river. A concrete post with disk in top. (43.534 meters or 142.828 feet.)

T 60.—About 9.9 miles west of **Samfordyce**, Hidalgo County, 5 meters south of the gravel road and 2 meters east of a telephone pole, the eleventh pole east of the junction of the old and the new **Samfordyce-Riogrande** roads. A concrete post with disk in top. (45.514 meters or 149.324 feet.)

U 60.—At **Garcias**, Starr County, 3 meters south of the military road, opposite the post office. A concrete post with disk in top. (45.774 meters or 150.177 feet.)

V 60 (I. B. C.).—Reference point 6 of the International Boundary Commission, and is 8 miles east of **Riogrande**, Starr County, in the center of the **Canasta** ranch on the south side of the **Brownsville** road. (47.601 meters or 156.171 feet.)

W 60 (I. B. C.).—Reference point 5 of the International Boundary Commission, and is 6 miles east of **Riogrande**, Starr County, at **La Puerta** ranch on the north side of the **Brownsville** road. (47.959 meters or 155.377 feet.)

X 60.—About 6 miles east of **Riogrande**, Starr County, at **La Puerta** ranch, in the corner of the fence on the north side of the military road. A concrete post with disk in top. (47.511 meters or 155.876 feet.)

Y 60 (I. B. C.).—Reference point 4 of the International Boundary Commission, and is 4 miles east of **Riogrande**, Starr County, at **Santa Cruz** ranch on the north side of the military road, and 141 meters (463 feet) west of a monument on a hill. (47.930 meters or 157.250 feet.)

Z 60 (I. B. C.).—Reference point 3 of the International Boundary Commission, 2 miles east of **Riogrande**, Starr County, at **Olmos** ranch, 47 meters (154 feet) east of the east end of the iron bridge across **Olmos Creek**. (49.773 meters or 163.297 feet.)

A 61.—About 2 miles east of **Riogrande**, Starr County, in the top of the north-east abutment of the steel bridge. An outlined square. (48.312 meters or 158.504 feet.)

B 61.—At **Riogrande**, Starr County, in the northwest corner of the Headquarters Building at **Fort Ringgold**. A brass disk. (51.894 meters or 170.256 feet.)

C 61.—At **Riogrande**, Starr County, in the northeast corner of the building occupied by **P. Hinojosa & Bros.** A brass disk. (52.461 meters or 172.116 feet.)

D 61.—At **Riogrande**, Starr County, about 1 mile southeast from the center of the town, in the north part of the parade ground at **Fort Ringgold**. The bench mark is the magnetic station, a bronze disk in the top of a limestone post, 6 by 6 by 28 inches and projecting about 3 inches above the ground. The post is 229 feet from the northwest corner of the barracks at the north corner of the parade ground and 325 feet from the southwest corner of the barracks on the northwest side of the parade ground. (50.873 meters or 166.922 feet.)

E 61 (I. B. C.).—Reference point 1 of the International Boundary Commission, and is 2 miles west of **Riogrande**, Starr County, at **Garcia** ranch, 60 meters (197 feet) south of the main road. (51.469 meters or 168.861 feet.)

F 61 (I. B. C.).—About 2.5 miles west of **Riogrande**, Starr County, reference point monument 4 of the International Boundary Commission, established 1908-9. (52.430 meters or 172.014 feet.)

G 61 (I. B. C.).—Reference point A of the International Boundary Commission, about 3.8 miles west of **Riogrande**, Starr County, at **Villarrealis** ranch 16 meters (52 feet) northwest of the northwest corner of a brick house. (52.767 meters or 173.120 feet.)

H 61 (triangulation station **Ringgold**).—About 5 miles west of **Riogrande**, Starr County, and 0.33 mile south of the military road. A brass disk set in concrete, 31 meters (102 feet) north of the reference mark, 4.5 meters west of the east fence of a wide road leading from the military road to the river, and 72 meters (236 feet) southeast of the southeast corner of a Mexican hut on the west side of the road. (53.926 meters or 176.922 feet.)

I 61 (I. B. C.).—Reference point *C* of the International Boundary Commission, and is 9 miles west of **Riogrande**, Starr County, at Garceno ranch 24 meters (79 feet) west of a frame house. (60.048 meters or 197.007 feet.)

J 61.—About 9 miles west of **Riogrande**, Starr County, in the northwest corner of the abutment of a bridge. An outlined square. (51.643 meters or 169.432 feet.)

K 61 (I. B. C.).—Reference point *D* of the International Boundary Commission, 2 miles east of **Roma**, Starr County, at Rancho Nuevo 39 meters (128 feet) northwest of a white brick house. (57.060 meters or 187.204 feet.)

L 61.—At **Roma**, Starr County, in the southeast corner of the churchyard fence. A brass disk. (69.390 meters or 227.657 feet.)

M 61 (I. B. C.).—Reference point *E* of the International Boundary Commission, at **Roma**, Starr County, 40 meters (131 feet) northeast of the church in the northeast corner of the street. (68.531 meters or 224.839 feet.)

N 61.—At **Roma**, Starr County, in the last house in **Roma** on the right hand side of the road leading to **Zapata**. A brass disk. (70.977 meters or 232.864 feet.)

O 61.—About 3 miles west of **Roma**, Starr County, at the junction of the **Roma-Hebbroville** and the **Roma-Zapata** roads, 4 meters from each road. A concrete post with disk in top. (119.626 meters or 392.473 feet.)

P 61.—About 6 miles west of **Roma**, Starr County, on the south side of the **Roma-Salineno** road, just inside the yard of a dumb Mexican, whose house is the only one near the road (1918-19). A concrete post with disk in top. (87.272 meters or 286.325 feet.)

Q 61.—About 10 miles west of **Roma**, Starr County, at the junction of the military road and the **Roma-Salineno** road, 3 meters from each road. A concrete post with disk in top. (99.018 meters or 324.862 feet.)

R 61.—About 15.8 miles west of **Roma**, Starr County, 1 meter south of the fence on the south side of the military road, 200 meters or 656 feet west of the fence corner and 2 meters east of a telephone pole. A concrete post with disk in top. (109.910 meters or 360.596 feet.)

B 62 (reference mark, triangulation station **Labra**).—About 16 miles northwest of **Roma**, Starr County, and 100 meters (328 feet) east of the military road from **Riogrande** to **Laredo**, which road has a wire fence on each side of it. A brass disk set in concrete, with an arrow pointing to the triangulation station (see below). (121.300 meters or 397.965 feet.)

C 62 (triangulation station **Labra**).—About 16 miles northwest of **Roma**, Starr County, and 100 meters (328 feet) east of the military road from **Riogrande** to **Laredo**, which road has a wire fence on each side of it with two pink board gates, one on each side of the road, about 200 meters (656 feet) west of the station. A brass disk, set in concrete, 10 meters (33 feet) north of the reference mark. (121.304 meters or 397.978 feet.)

S 61.—About 21.2 miles west of **Roma**, Starr County, on the east side of the military road, at the southeast corner of the pasture of **T. C. McDermott**, of **Ramirena**, Live Oak County, Tex. A concrete post with disk in top. (98.588 meters or 323.444 feet.)

T 61.—About 2 miles south of **Lopeno**, **Zapata** County, near the third telephone pole north of **El Tigre Arroyo**, on the east side of the military road. A concrete post with disk in top. (72.980 meters or 239.435 feet.)

U 61.—At **Lopeno**, **Zapata** County, at the northeast corner of the field opposite the post office. A concrete post with disk in top. (76.730 meters or 251.738 feet.)

V 61.—About 2.8 miles north of **Lopeno**, **Zapata** County, at the rightangled turn in the military road at the outpost of **Guadalupe**, in the corner of the field adjoining the house on the west side of the road. A concrete post with disk in top. (78.244 meters or 256.706 feet.)

W 61.—About 10.8 miles east of **Zapata**, **Zapata** County, at **Solidad** ranch house, in the fence line 8 meters south of the gate across the military road. A concrete post with disk in top. (81.695 meters or 268.028 feet.)

X 61.—About 6.4 miles east of **Zapata**, **Zapata** County, in line with the fence and 4 meters east of the gate which is the entrance from the military road to the **Teposan** ranch. A concrete post with disk in top. (82.846 meters or 271.804 feet.)

D 62 (triangulation station **Zapata**).—About 1 mile east of **Zapata**, **Zapata** County, on top of the highest hill in this vicinity, 20 meters (66 feet) south of the military road where the road leading northeast branches off from it. A

brass disk set in concrete, 10 meters (33 feet) east of the reference mark. (113.247 meters or 371.545 feet.)

E 62 (reference mark, triangulation station Zapata).—About 1 mile east of Zapata, Zapata County, and on top of the highest hill in this vicinity. A brass disk set in concrete, with an arrow pointing to the triangulation station (see above). (113.124 meters or 371.141 feet.)

Y 61.—At Zapata, Zapata County, 1 meter (3 feet) from the southwest corner of the courthouse. A brass disk. (87.538 meters or 287.198 feet.)

Z 61.—About 3.1 miles west of Zapata, Zapata County, on the north side of the military road opposite the last telegraph pole on the left side, where the wires cross over to the north side. A concrete post with disk in top. (92.954 meters or 304.967 feet.)

F 62 (reference mark, triangulation station Urebeno).—About 6 miles northwest of Zapata, Zapata County, and 200 meters (656 feet) north of the military road where it passes between two knobs. A brass disk, set in concrete, with an arrow pointing to the triangulation station (see below). (136.738 meters or 448.615 feet.)

G 62 (triangulation station Urebeno).—About 6 miles northwest of Zapata, Zapata County, 200 meters (656 feet) north of the military road where it passes between two knobs and about 15 meters (49 feet) east of the top of the hill. A brass disk set in concrete, 12 meters (39 feet) west of the reference mark. (136.801 meters or 448.821 feet.)

H 62 (triangulation station Feora).—About 8 miles northwest of Zapata, Zapata County, and 2 miles west of triangulation station Urebeno; on top of the highest part of a flat-topped ridge, the highest in this vicinity, and 30 meters (98 feet) south of the military road. A brass disk, set in concrete, 12 meters (39 feet) south of the reference mark. (138.930 meters or 455.806 feet.)

I 62 (reference mark, triangulation station Feora).—About 8 miles northwest of Zapata, Zapata County, and 2 miles west of triangulation station Urebeno. A brass disk, set in concrete, with an arrow pointing to the triangulation station (see above). (138.922 meters or 455.780 feet.)

A 62.—About 3.2 miles east of San Ygnacio, Zapata County, at milepost 37 of the Laredo-Zapata highway, 1 meter inside the fence on the south side of the road. A concrete post with disk in top. (112.348 meters or 368.595 feet.)

J 62.—At San Ygnacio, Zapata County, in the northeast corner of the store diagonally across from the church. A brass disk. (99.698 meters or 327.093 feet.)

L 62.—About 3 miles west of San Ygnacio, Zapata County, 75 meters (246 feet) west of an arroyo crossed by a bridge near a ranch house owned by Jose Maria Sanchez, and 6 meters north of the gate across the military road, at the corner of the fence. A concrete post with disk in top. (99.229 meters or 325.554 feet.)

M 62.—About 6.9 miles west of San Ygnacio, Zapata County, 2 meters east of a fence and 6 meters south of the military road where it passes through a gate, which is 200 meters (656 feet) east of a large arroyo. A concrete post with disk in top. (103.827 meters or 340.039 feet.)

K 62.—About 8.9 miles west of San Ygnacio, Zapata County, in the northwest corner of the La Perla store. A brass disk. (107.117 meters or 351.433 feet.)

N 62.—About 10.9 miles west of San Ygnacio, Zapata County, 2 meters east of milepost 23 of the Laredo-Zapata highway, 1 meter south of the fence, and 14 meters (46 feet) west of a gate on the south side of the military road. A concrete post with disk in top. (106.535 meters or 349.524 feet.)

O 62.—About 20 miles east of Laredo, Webb County, at Las Lajas ranch, in the northwest corner of the yard. A concrete post with disk in top. (116.779 meters or 383.132 feet.)

Q 62.—About 17.2 miles east of Laredo, Webb County, and 0.2 mile east of milepost 17 of the Laredo-Zapata highway, in the fence line on the south side of the road, 5 meters (16 feet) south of a gate across the road. A concrete post with disk in top. (141.005 meters or 462.614 feet.)

R 62.—About 14.2 miles east of Laredo, Webb County, and 0.2 mile east of milepost 14 of the Laredo-Zapata highway, at the intersection of the fences, 5 meters (16 feet) north of a gate across the road. A concrete post with disk in top. (156.839 meters or 514.563 feet.)

S 62.—About 10 miles east of Laredo, Webb County, at Santa Rosa farm, inside the corner of the fence on the south side of the Laredo-Zapata highway. A concrete post with disk in top. (128.928 meters or 422.991 feet.)

P 62.—About 8 miles east of Laredo, Webb County, 1 meter south of the concrete milepost 8 of the Laredo-Zapata highway, in the fence line on the south side of the road. A concrete post with disk in top. (119.195 meters or 391.059 feet.)

T 62.—About 5.9 miles east of Laredo, Webb County, in the front yard of the school house on the north side of the Laredo-Zapata highway, 1 meter (3 feet) inside the fence. A concrete post with disk in top. (135.215 meters or 443.618 feet.)

U 62.—About 2 miles east of Laredo, Webb County, in the southwest concrete abutment of the long steel bridge on the Laredo-Zapata highway. A brass disk. (116.397 meters or 381.879 feet.)

V 62 (triangulation station Laredo).—In the suburbs east of Laredo, Webb County, on the top of a hill at the southern end of a group of knobs, 15 meters (49 feet) south of the road passing over the hill, 200 meters (656 feet) west of a windmill and on a range with the Mexican Presbyterian Church and a point about halfway between the wireless masts. A brass disk wedged in a drill hole in bedrock, 12 meters (39 feet) south of the reference mark. (151.706 meters or 498.017 feet.)

For additional bench marks at Laredo, Tex., see pages 100 and 123.

X 62.—About 4.4 miles north of Webb, Webb County, 8 meters west of a gate across the Webb-Jefferies ranch road, in the fence line. A concrete post with disk in top. (220.046 meters or 721.934 feet.)

F 63 (reference mark, triangulation station Tajone).—About 6 miles northwest of the station of the International & Great Northern Railway at Webb, Webb County, on the highest part of the ridge 0.5 mile southwest of the Webb-Jefferies ranch road and 0.12 mile northwest of the windmill on the Tajone ranch. A brass disk, set in concrete, with an arrow pointing to the triangulation station (see below). (237.683 meters or 779.798 feet.)

E 63 (triangulation station Tajone).—About 6 miles northwest of the station of the International & Great Northern Railway at Webb, Webb County, on the highest part of the ridge 0.5 mile southwest of the Webb-Jefferies ranch road and 0.12 mile northwest of the windmill on the Tajone ranch. A brass disk, set in concrete, 12.5 meters (41 feet) south of the reference mark. (237.697 meters or 779.844 feet.)

Y 62.—About 6.4 miles north of Webb, Webb County, at Tajone ranch house, inside the pasture fence. A concrete post with disk in top. (210.676 meters or 691.193 feet.)

Z 62.—About 9.4 miles north of Webb, Webb County, at Trevino ranch, 10 meters (33 feet) east of the first gate between two houses. A concrete post with disk in top. (193.436 meters or 634.631 feet.)

A 63.—About 13.9 miles north of Webb, Webb County, 5 meters west of the white gate behind H. H. Jefferies's barn. A concrete post with disk in top. (179.220 meters or 587.991 feet.)

B 63.—About 16.1 miles north of Webb, Webb County, and 2 miles north of H. H. Jefferies's ranch; 200 meters (656 feet) south of the Dolivina ranch house and 6 meters west of the gate. A concrete post with disk in top. (177.471 meters or 582.253 feet.)

C 63.—About 19 miles north of Webb, Webb County, 25 meters (82 feet) northwest of the Tiendas ranch house, in the corner of the fence. A concrete post with disk in top. (184.806 meters or 606.318 feet.)

D 63.—About 20.8 miles north of Webb, Webb County, and 1.8 miles north of the Tiendas ranch; 7 meters west of a gate across the Tiendas-Asherton road. A concrete post with disk in top. (179.561 meters or 589.110 feet.)

G 63.—About 23.5 miles north of Webb, Webb County, 4.5 miles north of the Tiendas ranch and 7 miles south of the old Souse ranch; 8 meters west of a gate across the Tiendas-Asherton road. A concrete post with disk in top. (182.648 meters or 599.238 feet.)

I 63.—About 25.9 miles north of Webb, Webb County, and 6.9 miles north of the Tiendas ranch; 8 meters west of a gate across the Tiendas-Asherton road. A concrete post with disk in top. (186.090 meters or 610.530 feet.)

H 63.—About 28.2 miles north of Webb, Webb County, 9.2 miles north of the Tiendas ranch, 1.2 miles south of the tank and windmill on the Tiendas-Asher-

ton road and 8 meters west of a gate across this road. A concrete post with disk in top. (198.243 meters or 650.402 feet.)

J 63.—About 30.6 miles north of Webb, Webb County, 11.6 miles north of the Tiendas ranch and 1.2 miles north of the tank and windmill on the Tiendas-Asherton road, in the southwest angle formed by the junction of this road and the Minerva-Galvan ranch road. A concrete post with disk in top. (201.382 meters or 660.701 feet.)

K 63.—About 26.6 miles south of Asherton, Dimmit County, and 2.2 miles south of Chocolate Creek; 5 meters west of a wire gap across the Tiendas-Asherton road. A concrete post with disk in top. (195.576 meters or 641.652 feet.)

L 63.—About 24.4 miles south of Asherton, Dimmit County, 10 meters (33 feet) south of where the Tiendas-Asherton road crosses Chocolate Creek and 5 meters west of the road. A concrete post with disk in top. (187.177 meters or 614.097 feet.)

M 63.—About 19.7 miles south of Asherton, Dimmit County, 6 meters west of the Tiendas-Asherton road at the gate across it where a road runs along the fence toward the Buena Vista ranch, which is 1.5 miles distant. A concrete post with disk in top. (167.296 meters or 548.870 feet.)

N 63.—About 16.6 miles south of Asherton, Dimmit County, at Valensuela ranch, in the northeast corner of the yard next to the corral. A concrete post with disk in top. (162.401 meters or 532.811 feet.)

O 63.—About 15 miles south of Asherton, Dimmit County, 1.6 miles north of the Valensuela ranch, and 4 meters east of the gate across the Valensuela-Asherton road. A concrete post with disk in top. (157.938 meters or 518.168 feet.)

P 63.—About 9.6 miles south of Asherton, Dimmit County, in the northeast angle formed by the road from Valensuela ranch to Asherton and the road from Catarina station to Catarina ranch, 1 meter west of a telephone pole. A concrete post with disk in top. (186.859 meters or 613.053 feet.)

Q 63.—About 6.6 miles south of Asherton, Dimmit County, on top of an open-topped ridge, 15 meters (49 feet) west of the Valensuela-Asherton road. A concrete post with disk in top. (206.965 meters or 679.018 feet.)

R 63.—About 4.4 miles south of Asherton, Dimmit County, 6 meters east of a red gate across the road from Asherton to Valensuela ranch. A concrete post with disk in top. (190.555 meters or 624.707 feet.)

S 63.—At Asherton, Dimmit County, in the northeast corner of the high school building. A brass disk. (172.306 meters or 565.307 feet.)

T 63.—At Asherton, Dimmit County, in the front of the Asherton State Bank. A brass disk. (168.471 meters or 552.725 feet.)

U 63.—At Asherton, Dimmit County, in the southeast corner of the store occupied by J. F. Schumann and owned by Mr. Goodman, of Carrizo Springs. A brass disk. (167.090 meters or 548.194 feet.)

V 63.—About 1.2 miles north of Asherton, Dimmit County, in the southeast angle formed by the Asherton-Carrizo Springs road and the Asherton-Dentonic road. A concrete post with disk in top. (162.230 meters or 532.250 feet.)

W 63.—About 3.4 miles north of Asherton, Dimmit County, on the Asherton-Carrizo Springs road where it makes a right-angled turn 0.3 mile north of another right-angled turn, in the corner of the fence on the west side of the road. A concrete post with disk in top. (175.087 meters or 574.431 feet.)

X 63.—About 6.5 miles north of Asherton, Dimmit County, and 2.5 miles south of Carrizo Springs; in the southeast corner of a field, 4 meters west of the Asherton-Carrizo Springs road. A concrete post with disk in top. (190.797 meters or 625.973 feet.)

Y 63.—At Carrizo Springs, Dimmit County, in the southwest corner of the bank building owned by Mr. Goodman, of Carrizo Springs. A brass disk. (185.253 meters or 607.784 feet.)

Z 63.—At Carrizo Springs, Dimmit County, in the northeast corner of the Williams drug store. A brass disk. (184.058 meters or 603.864 feet.)

A 64.—At Carrizo Springs, Dimmit County, in the southwest corner of the high-school building. A brass disk. (190.935 meters or 626.426 feet.)

B 64.—About 2 miles north of Carrizo Springs, Dimmit County, and 6 meters west of the Eagle Pass-Carrizo Springs road, in the corner of the fences opposite the auto gap gate. A concrete post with disk in top. (197.753 meters or 648.795 feet.)

C 64.—About 4.8 miles north of Carrizo Springs, Dimmit County, and 0.6 mile south of Pena Creek; in the corner of the fences, 5 meters west of the

Eagle Pass-Carrizo Springs road, opposite a gate across this road where a road leads off to a ranch to the east. A concrete post with disk in top. (185.382 meters or 608.207 feet.)

D 64.—About 8 miles north of Carrizo Springs, Dimmit County, in the corner of the fences, 6 meters east of the Eagle Pass-Carrizo Springs road, and 3 meters north of the road leading to the Bert (or Ben) Turmalson ranch. A concrete post with disk in top. (189.411 meters or 621.426 feet.)

E 64.—About 11.9 miles north of Carrizo Springs, Dimmit County, 0.2 mile north of milepost 38 of the San Antonio, Uvalde & Gulf Railroad, in the corner of the fence, 6 meters west of the Eagle Pass-Carrizo Springs road where it makes a right-angled turn, 1 mile north of Wade White's farm. A concrete post with disk in top. (197.790 meters or 648.916 feet.)

F 64.—About 2.5 miles south of Cometa, Zavalla County, in the corner of the fence, 5 meters west of the Eagle Pass-Carrizo Springs road where it makes a right-angled turn, 0.2 mile south of the Callahan farm. A concrete post with disk in top. (187.905 meters or 616.485 feet.)

G 64.—About 0.6 miles south of Cometa, Zavalla County, in the corner of the fence, 4 meters west of the intersection of the Eagle Pass-Carrizo Springs road and the Cometa-Crystal City road. A concrete post with disk in top. (188.230 meters or 617.551 feet.)

H 64.—About 4 miles north of Cometa, Zavalla County, in the corner of the fence, 4 meters east of the intersection of the Eagle Pass-Carrizo Springs road and the road leading to the ranches of Davidson and Vanclive. A concrete post with disk in top. (190.655 meters or 625.507 feet.)

I 64.—About 5.9 miles north of Cometa, Zavalla County, in the northeast concrete abutment of the bridge on the Eagle Pass-Carrizo Springs road. A brass disk. (197.572 meters or 648.201 feet.)

J 64.—About 24 miles south of Eagle Pass, Maverick County, in the northwest concrete abutment of the bridge on the Eagle Pass-Carrizo Springs road. A brass disk. (208.584 meters or 684.320 feet.)

K 64.—About 22.3 miles south of Eagle Pass, Maverick County, in the northeast concrete abutment of a bridge on the Eagle Pass-Carrizo Springs road. A brass disk. (214.586 meters or 704.021 feet.)

L 64.—About 20.4 miles south of Eagle Pass, Maverick County, near the place where the telephone line crosses the Eagle Pass-Carrizo Springs road, in line with the telephone poles, and about 15 meters (49 feet) west of the road. A concrete post with disk in top. (237.264 meters or 778.424 feet.)

M 64.—About 15.4 miles south of Eagle Pass, Maverick County, in the northeast concrete abutment of the bridge on the Eagle Pass-Carrizo Springs road. A brass disk. (239.558 meters or 785.950 feet.)

N 64.—About 12.4 miles south of Eagle Pass, Maverick County, 5 meters south of a gate on the west side of the Eagle Pass-Carrizo Springs road. A concrete post with disk in top. (256.365 meters or 841.091 feet.)

O 64.—About 10.4 miles south of Eagle Pass, Maverick County, 6 meters south of a gate on the west side of the Eagle Pass-Carrizo Springs road. A concrete post with disk in top. (255.948 meters or 839.723 feet.)

P 64.—About 6.7 miles south of Eagle Pass, Maverick County, near a gate across the Eagle Pass-Carrizo Springs road, in the corner of the fence on the west side of the road. A concrete post with disk in top. (259.029 meters or 849.831 feet.)

Q 64.—About 3.9 miles south of Eagle Pass, Maverick County, at the top of a very steep hill, 5 meters south of a gate on the side of the Eagle Pass-Carrizo Springs road. A concrete post with disk in top. (263.912 meters or 865.851 feet.)

R 64 (triangulation station Laplace).—On "Hillcrest," the first hill northeast of Eagle Pass, Maverick County, and about 0.5 mile from the courthouse, 30 meters (98 feet) southeast and 24 meters (79 feet) south of the road circling around the hill, 10 meters (33 feet) north of a line on a range with the standpipe on the hill and the Eagle Pass Clubhouse and on a range with the courthouse and the south end of the express office. A brass disk set in concrete, 40 meters (131 feet) west of the reference mark. (256.845 meters or 842.666 feet.)

S 64 (reference mark, triangulation station Laplace).—On "Hillcrest," the first hill northeast of Eagle Pass, Maverick County, and about 0.5 mile from the courthouse, 4 meters north of the road. A brass disk, set in solid rock, with an arrow pointing to the triangulation station (see above). (255.681 meters or 838.847 feet.)

T 64.—At **Eagle Pass**, Maverick County, in the southeast corner of the express office at the Southern Pacific Railroad station. A brass disk. (225.539 meters or 739.956 feet.)

For additional bench marks at Eagle Pass, Tex., see pages 80, 81, and 126.

LINE XVIII, HILLSBORO, TEX., TO SHREVEPORT, LA.

This is the Texas portion of a line which follows the Trinity & Brazos Valley Railway from Hillsboro to Mexia; the Houston & Texas Central Railroad from Mexia to Jewett; the International & Great Northern Railway from Jewett to Jacksonville; the Texas & New Orleans Railroad from Jacksonville to Bonita Junction; the Houston East & West Texas Railway from Bonita Junction, Tex., to Logansport, La.; the Houston & Shreveport Railroad from Logansport to Keithville; and the Texas & Pacific Railway from Keithville to Shreveport, La. From Bonita Junction a spur line was run to Nacogdoches, Tex., over the Houston East & West Texas Railway.

The field work between Hillsboro and Gallatin, Tex., and between Tenaha, Tex., and Shreveport, La., was done by C. M. Durgin, extra observer, between May 14 and August 18, 1919, and December 2 and 31, 1919, respectively. The field work between Tenaha and Gallatin was done by O. W. Ferguson, hydrographic and geodetic engineer, between July 3 and August 13, 1920.

A 65.—About 2 miles north of **Abbott**, Hill County, on the Missouri, Kansas & Texas Railway, west of the track, on a concrete culvert. An outlined square. (198.156 meters or 650.117 feet.)

B 65.—About 1.5 miles south of **Hillsboro**, Hill County, on the Missouri, Kansas & Texas Railway, 0.5 mile south of a coal chute, on the northeast corner of the concrete base of a block-signal tower, west of the track. An outlined square. (185.817 meters or 609.635 feet.)

Z 64.—At **Hillsboro**, Hill County, on the northeast corner of the northeast abutment of the Trinity & Brazos Valley Railway bridge over Waco Street. An outlined square. (183.598 meters or 602.354 feet.)

U 64.—At **Hillsboro**, Hill County, on the east wall of the Trinity & Brazos Valley Railway depot, 8 meters from the northeast corner and 1 meter above the ground. A brass disk. (190.728 meters or 625.747 feet.)

V 64.—At **Hillsboro**, Hill County, on the wall 6 meters (20 feet) from the southwest corner of the brick building owned by A. J. Thompson at the corner of Elm and Bois d'Arc Streets and 1 meter above the ground. A brass disk. (190.707 meters or 625.678 feet.)

W 64.—At **Hillsboro**, Hill County, on the base of the northwest column of the Farmers' National Bank, at the corner of Elm and Covington Streets. A brass disk. (192.206 meters or 630.596 feet.)

X 64.—At **Hillsboro**, Hill County, on the wall at the southwest corner of the courthouse, 0.7 meter above the sidewalk. A brass disk. (193.130 meters or 633.627 feet.)

Y 64.—At **Hillsboro**, Hill County, 6 meters (20 feet) from the northeast corner of the post office, 1 meter above the sidewalk. A brass disk. (192.227 meters or 630.605 feet.)

C 65.—At **Reunion**, Hill County, on the Trinity & Brazos Valley Railway, 25 meters (82 feet) northwest of the station, 6 telegraph poles west of milepost 262 and 9 meters north of the track. A concrete post with disk in top. (226.184 meters or 742.072 feet.)

D 65.—About 6.7 miles east of **Hillsboro**, Hill County, on the Trinity & Brazos Valley Railway, 8 telegraph poles west of milepost 259, and 3 meters south of the track, on the south side of a concrete culvert. A brass disk. (218.582 meters or 717.131 feet.)

E 65.—At **Bynum**, Hill County, on the Trinity & Brazos Valley Railway, 10 telegraph poles east of milepost 257, 14 meters (46 feet) north of the depot,

and 11 meters (36 feet) north of the track. A concrete post with disk in top. (200.209 meters or 656.852 feet.)

F 65.—About 2.7 miles east of **Bynum**, Hill County, on the Trinity & Brazos Valley Railway, midway between the first and second telegraph poles east of milepost 254, 16 meters (52 feet) west of a road crossing, and 8 meters south of the track. A concrete post with disk in top. (173.186 meters or 568.194 feet.)

G 65.—About 2.5 miles west of **Malone**, Hill County, on the Trinity & Brazos Valley Railway, in a concrete culvert, 16 telegraph poles east of milepost 252 and 6 telegraph poles east of a road crossing, 2.5 meters south of the track. A brass disk. (159.305 meters or 522.653 feet.)

H 65.—At **Malone**, Hill County, on the southeast corner of the brick building on Fifth Street owned by A. D. Walling, 0.6 meter above the sidewalk. A brass disk. (148.038 meters or 485.688 feet.)

J 65.—At **Malone**, Hill County, in the brick wall, 3 meters west of the southwest corner, of the First State Bank Building, at the southwest corner of Fifth and North Second Streets, 1 meter above the sidewalk. A brass disk. (148.105 meters or 485.908 feet.)

I 65.—About 2.3 miles east of **Malone**, Hill County, on the Trinity & Brazos Valley Railway, on a concrete culvert, 8 telegraph poles east of milepost 247, midway between the first and second telegraph poles east of a road crossing, and 1.3 meters south of the track. A brass disk. (139.897 meters or 458.970 feet.)

K 65.—About 2 miles west of **Hubbard**, Hill County, on the Trinity & Brazos Valley Railway, 11 telegraph poles east of milepost 243, 4 telegraph poles east of a water tank, 3 meters west of a road crossing, and 5 meters south of the track. A concrete post with disk in top. (167.339 meters or 549.011 feet.)

S 65.—At **Hubbard**, Hill County, on the northeast corner of the second concrete block, 12 meters (39 feet) south of the block-signal tower at the crossing of the Trinity & Brazos Valley Railway and the St. Louis Southwestern Railway of Texas. An outlined square. (187.383 meters or 614.772 feet.)

I 65.—At **Hubbard**, Hill County, in the wall, 0.5 meter south of the southwest corner of the brick building owned by Jim Jones, at the southwest corner of Magnolia and North First Streets, 1.2 meters above the sidewalk. A brass disk. (193.217 meters or 633.913 feet.)

M 65.—At **Hubbard**, Hill County, in the wall, 0.7 meter from the northwest corner of the brick building owned by W. J. Jarvis, at the northwest corner of Magnolia and North First Streets, 1 meter above the sidewalk. A brass disk. (192.954 meters or 633.050 feet.)

N 65.—At **Hubbard**, Hill County, in the brick wall of the First State Bank Building at the northeast corner of Magnolia and North Second Streets, 1.2 meters above the sidewalk. A brass disk. (194.552 meters or 638.293 feet.)

O 65.—About 3 miles east of **Hubbard**, Hill County, on the Trinity & Brazos Valley Railway, on a concrete culvert, 9 telegraph poles east of milepost 238 and 1 meter south of the track. A brass disk. (161.600 meters or 530.183 feet.)

P 65.—At **Munger**, Limestone County, on the Trinity & Brazos Valley Railway, 4 telegraph poles west of the depot, 12 telegraph poles west of milepost 234, 5 meters east of a road crossing, and 6 meters south of the track. A concrete post with disk in top. (152.379 meters or 499.930 feet.)

B 66.—At **Munger**, Limestone County, on the Trinity & Brazos Valley Railway, south of the track on the southwest corner of a concrete culvert, midway between the third and fourth telegraph poles west of milepost 234. An outlined square. (149.350 meters or 489.992 feet.)

T 65.—At **Cooledge**, Limestone County, on the Trinity & Brazos Valley Railway, 75 meters (230 feet) from the track. In the east brick wall of the J. S. Grooms Mercantile Co.'s building on the south side of Bell Street, 0.6 meter above the sidewalk. A brass disk. (161.448 meters or 529.684 feet.)

U 65.—At **Cooledge**, Limestone County, in the wall 0.1 meter west of the southwest corner of the one-story brick building of the J. D. McElroy Furniture Co., on the north side of Bell Street, 1 meter above the sidewalk. A brass disk. (162.829 meters or 534.215 feet.)

V 65.—About 1.8 miles east of **Cooledge**, Limestone County, on the Trinity & Brazos Valley Railway, on a concrete culvert, 20 meters (66 feet) east of milepost 228, and 2 meters south of the track. A brass disk. (163.610 meters or 536.777 feet.)

W 65.—About 0.7 mile east of **Datura**, Limestone County, on the Trinity & Brazos Valley Railway, on a concrete culvert, midway between the sixth and

seventh telegraph poles west of milepost 226, and 2 meters south of the track. A brass disk. (149.830 meters or 491.567 feet.)

X 65.—About 2.8 miles east of **Datura**, Limestone County, on the Trinity & Brazos Valley Railway, on a concrete culvert, 3 telegraph poles west of milepost 224, and 4 meters south of the track. A brass disk. (161.182 meters or 528.811 feet.)

Y 65.—About 0.4 mile east of **Tehuacana**, Limestone County, on the Trinity & Brazos Valley Railway, on a concrete road culvert, 13 telegraph poles east of the station, 9 telegraph poles east of milepost 222, and 30 meters (98 feet) north of the track. A brass disk. Reported destroyed in 1919. (173.832 meters or 570.314 feet.)

Z 65.—About 2.5 miles east of **Tehuacana**, Limestone County, on the Trinity & Brazos Valley Railway, on a concrete culvert, 14 telegraph poles east of milepost 220, and 2 meters south of the track. A brass disk. (162.320 meters or 532.545 feet.)

A 66.—At **Mexia**, Limestone County, on the Trinity & Brazos Valley Railway, 7 meters north of the track, on the south side of Commerce Street at the railroad crossing, in the wall 0.2 meter east of the northwest corner of the two-story brick building of the Mexia Bottling Works, and 0.7 meter above the ground. A brass disk. (163.262 meters or 535.635 feet.)

Q 65.—At **Mexia**, Limestone County, in the wall under the ticket window of the Houston & Texas Central Railroad depot, 0.6 meter above the sidewalk. A brass disk. (162.718 meters or 533.851 feet.)

R 65.—At **Mexia**, Limestone County, in the wall 0.2 meter (0.7 foot) south of the northwest corner of the brick building owned by Mrs. M. B. Kemp, at the southeast corner of Commerce and Sherman Streets, and 1.2 meters above the sidewalk. A brass disk. (164.809 meters or 539.366 feet.)

F 66.—About 1.5 miles east of **Mexia**, Limestone County, in the southeast corner of a concrete wall, 85 meters (279 feet) east of the crossing of the Houston & Texas Central Railroad and the Trinity & Brazos Valley Railway, and 25 meters (82 feet) north of the Mexia-Nelleva cut-off. An outlined square. (146.806 meters or 481.646 feet.)

C 66.—At **Mexia Junction**, Limestone County, on the Houston & Texas Central Railroad, 17 meters (56 feet) east of milepost 94 and 4.5 meters south of the track. A concrete post with disk in top. (142.270 meters or 466.784 feet.)

D 66.—At **Shiloh**, Limestone County, on the Houston & Texas Central Railroad, 3 meters north of the track, on a concrete culvert, 9 telegraph poles east of the depot, and 9 telegraph poles west of milepost 91. A brass disk. (149.710 meters or 491.174 feet.)

E 66.—About 0.7 mile west of **Fallon**, Limestone County, on the Houston & Texas Central Railroad, 1.5 meters north of the track, on the concrete culvert No. 88A, 10 telegraph poles east of milepost 89. A brass disk. (149.259 meters or 489.694 feet.)

K 66 (triangulation station Fallon).—About 1.1 miles east of **Fallon**, Limestone County, on the Houston & Texas Central Railroad, 0.2 mile north of the track, on a flat sandy hill known as Gordons Hill and owned by W. S. Hughes, about 225 meters (738 feet) northeast of a house rented by B. S. Johnson. A concrete post with disk in top. (172.660 meters or 566.469 feet.)

G 66.—About 2 miles west of **Personville**, Limestone County, on the Houston & Texas Central Railroad, 3 meters north of the track, on the concrete culvert No. 83C, 15 telegraph poles east of milepost 84. A brass disk. (135.499 meters or 444.550 feet.)

H 66.—At **Personville**, Limestone County, on the Houston & Texas Central Railroad, in the top of the west end of a cotton wharf, 75 meters (246 feet) west of the depot, and 25 meters (82 feet) south of the track. A brass disk. (120.215 meters or 423.933 feet.)

I 66.—About 2.6 miles east of **Personville**, Limestone County, on the Houston & Texas Central Railroad, 1.5 meters south of the track on the concrete culvert No. 79A, 7 telegraph poles west of milepost 79. A brass disk. (131.070 meters or 430.019 feet.)

J 66.—At **Farrar**, Limestone County, on the Houston & Texas Central Railroad, on a concrete wasteway, 6 telegraph poles east of the depot and 2 meters south of the track. A brass disk. (131.333 meters or 430.882 feet.)

L 66.—About 0.6 mile west of **Evansville**, Leon County, on the Houston & Texas Central Railroad, 10 meters (33 feet) south of the track, on the southwest corner of the concrete culvert No. 72A, 11 telegraph poles west of mile-

post 72, and midway between the second and third telegraph poles east of a coal-mine switch. A brass disk. (127.353 meters or 417.824 feet.)

M 66.—About 4 miles west of **Jewett**, Leon County, on the Houston & Texas Central Railroad, 3 meters south of the track, on the horizontal lower base, at the southeast corner of the overhead bridge at the crossing of the Trinity & Brazos Valley Railway. An outlined square. (139.529 meters or 457.771 feet.)

N 66.—About 1 mile west of **Jewett**, Leon County, on the Houston & Texas Central Railroad, 1 meter north of the track and 200 meters (656 feet) east of the depot, on the upper horizontal base, at the northwest corner of the concrete overhead bridge at the crossing of the International & Great Northern Railway. A brass disk. (150.110 meters or 492.486 feet.)

O 66.—At **Jewett**, Leon County, on the International & Great Northern Railway, 20 meters (66 feet) west of the depot, on the west side of a water tank, 2 meters south of the track and 1 meter above the ground. A brass disk. (150.104 meters or 492.466 feet.)

P 66.—At **Jewett**, Leon County, in the front wall, 0.5 meter from the southeast corner of the brick building occupied by the Southwestern Telephone Co., and 1 meter above the sidewalk. A brass disk. (151.095 meters or 495.718 feet.)

Q 66.—At **Jewett**, Leon County, in the southeast corner of R. H. Evans's brick garage, 0.4 meter north of the corner, and 1 meter above the ground. A brass disk. (151.721 meters or 497.771 feet.)

R 66.—About 3.5 miles east of **Jewett**, Leon County, on the International & Great Northern Railway, 3 meters south of the track, on a concrete culvert midway between the twelfth and thirteenth telegraph poles west of milepost 40. A brass disk. (141.809 meters or 465.252 feet.)

S 66.—About 3.5 miles west of **Buffalo**, Leon County, on the International & Great Northern Railway, 5 meters north of the track, on a concrete culvert, 10 telegraph poles west of milepost 38. A brass disk. (126.851 meters or 416.177 feet.)

T 66.—At **Buffalo**, Leon County, on the wall, 1 meter west of the southeast corner of the brick building at the corner of Commerce and Fairfield Streets, owned by Harrod & Merrill and occupied by the Guaranty State Bank. A brass disk. (118.522 meters or 388.851 feet.)

U 66.—At **Buffalo**, Leon County, in the east wall, 0.5 meter north of the entrance of the Buffalo State Bank's brick building, at the corner of Commerce and Center Streets, and 1 meter above the sidewalk. A brass disk. (118.660 meters or 389.304 feet.)

V 66.—About 2.8 miles east of **Buffalo**, Leon County, on the International & Great Northern Railway, 2 meters north of the track, on the northeast corner of the concrete culvert No. 32A, 2 telegraph poles west of milepost 32. An outlined square. (95.289 meters or 312.627 feet.)

W 66.—About 1.7 miles west of **Keechi**, Leon County, on the International & Great Northern Railway, 15 telegraph poles west of milepost 28, north of the track, and 2 meters south of the right-of-way fence. A concrete post with disk in top. (88.193 meters or 289.347 feet.)

X 66.—At **Keechi**, Leon County, on the International & Great Northern Railway, in the southeast corner of the section foreman's yard, and 15 meters (49 feet) north of the track. A concrete post with disk in top. (85.713 meters or 281.210 feet.)

Y 66.—About 1 mile east of **Keechi**, Leon County, on the International & Great Northern Railway, on the southwest corner of the concrete culvert No. 26E, 50 meters (164 feet) east of a water tank. A brass disk. (85.358 meters or 280.045 feet.)

Z 66.—About 4 miles west of **Oakwood**, Leon County, on the International & Great Northern Railway, 3 telegraph poles west of milepost 22, and 10 meters (33 feet) north of the track. A concrete post with disk in top. (97.177 meters or 318.822 feet.)

A 67.—At **Oakwood**, Leon County, in the south wall, 4 meters from the southeast corner of the Oakwood State Bank's brick building at the corner of Commerce and Main Streets, and 0.7 meter above the sidewalk. A brass disk. (85.491 meters or 280.482 feet.)

B 67.—At **Oakwood**, Leon County, on the wall, 1 meter west of the southeast corner of the R. L. Knowles Hardware Co.'s two-story brick building at the corner of Commerce and Whitt Streets, and 0.6 meter above the sidewalk. A brass disk. (84.401 meters or 278.906 feet.)

C 67.—About 4.2 miles east of **Oakwood**, Leon County, on the International & Great Northern Railway, on the west abutment of the Trinity River bridge,

north of and 3 meters below the track. A brass disk. (69.814 meters or 227.408 feet.)

F 67 (U. S. E. No. 510).—A bench mark established by the Trinity River survey, about 4.2 miles east of **Oakwood**, Leon County, on the International & Great Northern Railway, north of the west abutment of the Trinity River bridge. An iron pipe. (65.719 meters or 215.613 feet.)

D 67.—At **Long Lake**, Anderson County, on the International & Great Northern Railway, in a water tank, midway between the second and third telegraph poles east of the depot. A brass disk. (72.380 meters or 237.467 feet.)

E 67.—At **Tucker**, Anderson County, on the International & Great Northern Railway, midway between the first and second telegraph poles east of the depot, 4 meters west of a road crossing and 6 meters south of the track. A concrete post with disk in top. (92.808 meters or 304.471 feet.)

G 67.—About 1.3 miles east of **Tucker**, Anderson County, on the International & Great Northern Railway, 3 meters south of the track, on the south side of a concrete culvert midway between milepost 7 and the first telegraph pole west of the milepost. A brass disk. (101.117 meters or 331.748 feet.)

H 67.—About 4.5 miles west of **Palestine**, Anderson County, on the International & Great Northern Railway, 11 telegraph poles west of milepost 4, and 6 meters south of the track. A concrete post with disk in top. (102.785 meters or 337.220 feet.)

I 67.—At **Palestine**, Anderson County, on the International & Great Northern Railway, in the south wall near the southeast corner of the depot, 0.5 meter above the ground. A brass disk. (149.624 meters or 490.891 feet.)

J 67.—At **Palestine**, Anderson County, at the corner of Sycamore and West Spring Streets, in the east wall of the brick building owned by Mr. Gregg and occupied by the L. Douthitt Drug Co., and 0.4 meter above the ground. A brass disk. (147.559 meters or 484.116 feet.)

K 67.—At **Palestine**, Anderson County, in the granite balustrade at the East Oak Street entrance to the post office. A brass disk. (147.764 meters or 484.789 feet.)

L 67.—At **Palestine**, Anderson County, on the International & Great Northern Railway, 1 meter south of the track, on the southwest abutment of an overhead concrete bridge, 0.7 mile east of the depot. A brass disk. (141.695 meters or 464.878 feet.)

M 67.—About 3 miles east of **Palestine**, Anderson County, on the International & Great Northern Railway, opposite milepost 3 and 1 meter from the right-of-way fence. A concrete post with disk in top. (111.782 meters or 366.788 feet.)

N 67.—About 6 miles east of **Palestine**, Anderson County, on the International & Great Northern Railway, midway between the fifth and sixth telegraph poles east of milepost 6 and 4 meters south of the track. A concrete post with disk in top. (99.300 meters or 325.787 feet.)

O 67.—At **McDonald Spur**, Anderson County, on the International & Great Northern Railway, 9 telegraph poles west of milepost 9 and 15 meters (49 feet) north of the track. A concrete post with disk in top. (124.079 meters or 409.051 feet.)

P 67.—At **Neches**, Anderson County, on the International & Great Northern Railway, north of the track, on the northeast corner of a concrete culvert, 8 telegraph poles west of the depot. A brass disk. (119.576 meters or 392.309 feet.)

Q 67.—At **Neches**, Anderson County, on the corner of South and Front Streets, in the northeast corner of the brick building occupied by the Guaranty State Bank and the P. W. Ezell Mercantile Co. A brass disk. (125.758 meters or 412.591 feet.)

R 67.—About 1 mile west of **Prices**, Cherokee County, on the International & Great Northern Railway, 1 meter north of the track, on the northeast abutment of the Neches River bridge, 3 telegraph poles west of milepost 16. A brass disk. (86.767 meters or 284.668 feet.)

S 67.—About 1.5 miles east of **Prices**, Cherokee County, on the International & Great Northern Railway, 0.5 meter north of the track, on the concrete culvert No. 18C, 21 telegraph poles east of milepost 18. A brass disk. (102.562 meters or 336.489 feet.)

T 67.—About 0.5 mile east of **Ironton**, Cherokee County, on the International & Great Northern Railway, opposite milepost 21, and 10 meters (33 feet) south of the track. A concrete post with disk in top. (135.433 meters or 444.333 feet.)

U 67.—About 0.6 mile east of **Hume**, Cherokee County, on the International & Great Northern Railway, 2 meters north of the track, on the concrete culvert

No. 25C, midway between the fifth and sixth telegraph poles east of milepost 24. A brass disk. (148.874 meters or 488.431 feet.)

V 67.—At Jacksonville, Cherokee County, on the upper part of the southeast abutment of the overhead bridge where the Texas & New Orleans Railroad crosses the International & Great Northern Railway, and 1 meter south of the track of the former. A brass disk. (161.078 meters or 528.470 feet.)

W 67.—At Jacksonville, Cherokee County, at the southeast corner of Main and Commerce Streets, 1 meter above the sidewalk, in the north wall 3 meters from the northwest corner of the First National Bank's five-story brick building. A brass disk. (161.756 meters or 530.694 feet.)

X 67.—At Jacksonville, Cherokee County, at the northwest corner of Main and Commerce Streets, 1 meter above the sidewalk, in the east wall 5 meters from the southeast corner of the two-story brick building of the Ragsdale Bros. Mercantile Co. A brass disk. (161.369 meters or 529.425 feet.)

A 68.—About 1 mile east of Jacksonville, Cherokee County, on the Texas & New Orleans Railroad and 2 meters south of the track, on the southeast corner of the abutment of the overhead bridge crossing the St. Louis Southwestern Railway. A brass disk. (152.817 meters or 501.367 feet.)

Y 67.—At Turney, Cherokee County, on the Texas & New Orleans Railroad, 15 meters (49 feet) south of and opposite the depot, and 6 meters south of the track. A concrete post with disk in top. (123.709 meters or 406.065 feet.)

Z 67.—At Gallatin, Cherokee County, on the Texas & New Orleans Railroad, 40 meters (131 feet) northeast of the depot, 10 meters (33 feet) east of a road crossing, and 17 meters (56 feet) north of the track. A concrete post with disk in top. (107.499 meters or 352.686 feet.)

B 68.—At Gallatin, Cherokee County, on the Texas & New Orleans Railroad, 100 meters (328 feet) southwest of the depot and 60 meters (197 feet) south of the track, in the north wall of the brick bank building. A brass disk. (109.296 meters or 358.582 feet.)

L 69.—At Ponta, Cherokee County, on the Texas & New Orleans Railroad, north of the track, 3.5 feet above the ground, in the south face of the Guaranty State Bank Building. A brass disk. (85.690 meters or 281.135 feet.)

K 69.—About 3 miles east of Ponta, Cherokee County, on the Texas & New Orleans Railroad, in the foundation on the north side of the west end of cattle guard No. 185C. A brass disk. (93.533 meters or 306.866 feet.)

J 69.—At Reklaw, Cherokee County, on the Texas & New Orleans Railroad, 250 yards east of the track, at the corner of Walker and Nacogdoches Streets, in the brick chimney on the north side of A. Peterson's house. A brass disk. (96.891 meters or 317.883 feet.)

I 69.—About 2.4 miles west of Sacul, Nacogdoches County, on the Texas & New Orleans Railroad, 2 feet below and 3 feet east of the track, in the southwest corner of the west pier of bridge No. 179B. A brass disk. (85.264 meters or 279.737 feet.)

H 69.—At Sacul, Nacogdoches County, on the west side of the public square, 40 inches above the ground, in the east corner of the brick building owned by Ida Lucas. A brass disk. (94.566 meters or 310.255 feet.)

M 69.—At Sacul, Nacogdoches County, on the Texas & New Orleans Railroad, about 60 meters (197 feet) north of the depot, 4 feet above the ground, in the east side of the chimney of W. H. Cooper's house. A brass disk. (94.430 meters or 309.809 feet.)

G 69.—About 2.5 miles west of Cushing, Nacogdoches County, on the Texas & New Orleans Railroad, 400 yards north of the tracks, 4.5 feet above the ground, in the brick chimney on the north side of Andy Pye's house. A brass disk. (125.190 meters or 410.728 feet.)

F 69.—At Cushing, Nacogdoches County, on the Texas & New Orleans Railroad, 50 meters (164 feet) north of the track, 4 feet above the ground, in the southeast corner of the J. O. Lowe & Bros. building. A brass disk. (127.531 meters or 418.408 feet.)

E 69.—About 3 miles southeast of Cushing, Nacogdoches County, on the Texas & New Orleans Railroad, at a road crossing, in the brick chimney of a house 50 yards east of the track. A brass disk. (123.816 meters or 406.220 feet.)

D 69.—At Delmont, Nacogdoches County, on the Texas & New Orleans Railroad, 125 meters (410 feet) west of the main road crossing and 100 feet south of the track; the mark of a cold chisel in the top of the northwest and taller of two anchor pipes. (138.399 meters or 454.064 feet.)

C 69.—At Caro, Nacogdoches County, on the Texas & New Orleans Railroad, 70 meters (230 feet) north of the depot, in the northeast quarter of a road

crossing, 12.5 feet north of the road, and 13.5 feet east of the track, and 3 feet northeast of the crossing signpost. A concrete post with disk in top. (132.033 meters or 433.178 feet.)

B 69.—At **Mahl**, Nacogdoches County, on the Texas & New Orleans Railroad, about 160 meters (525 feet) east of the track, on the southwest pier in the south face of the Mahl Schoolhouse. A brass disk. (157.177 meters or 515.672 feet.)

A 69.—About 0.8 mile south of **Mahl**, Nacogdoches County, on the Texas & New Orleans Railroad; the extreme northwest bolt of the west girder of an iron viaduct. (167.310 meters or 548.916 feet.)

Z 68.—About 4 miles northwest of **Bonita Junction**, Nacogdoches County, on the Texas & New Orleans Railroad, at the Bonita Church crossing, 30 feet northeast of the road and 4.5 feet east of the track, near the north end of a cattle guard; a concrete post with disk in top, set even with the surface of the ground and 1 foot below the top of the rail. (164.379 meters or 539.300 feet.)

V 68.—About 3 miles north of **Nacogdoches**, Nacogdoches County, at **Bonita Junction**, on the Houston East & West Texas Railway, about 9 feet south of the track, 10 feet north of the signal station at the crossing of the Texas & New Orleans Railroad, on the highest point of a heavy 30-inch iron sewer pipe. An outlined square. (106.713 meters or 350.108 feet.)

Spur line to Nacogdoches.

KW 68.—About 2.2 miles north of **Nacogdoches**, Nacogdoches County, on the Houston East & West Texas Railway, on the east end of the concrete culvert No. 140D. A brass disk. (98.232 meters or 322.283 feet.)

W 68.—At **Nacogdoches**, Nacogdoches County, on the Houston East & West Texas Railway, 40 meters (131 feet) north of the depot, on the west end of the Nacogdoches Grocery Co.'s Building. A brass disk. (87.382 meters or 286.686 feet.)

X 68.—At **Nacogdoches**, Nacogdoches County, on the Houston East & West Texas Railway, in the center of the depot, 2.8 feet above the ground, and 10 feet east of the track. A brass disk. (86.226 meters or 282.893 feet.)

Y 68.—At **Nacogdoches**, Nacogdoches County, 40 meters (131 feet) east of the post office, 4 feet above the ground, in the west side of the northwest corner of the Stone Fort Bank Building. A brass disk. (93.640 meters or 307.217 feet.)

Magnetic station.—At **Nacogdoches**, Nacogdoches County, 100 meters (328 feet) south of the high-school building, on the highest point of a knoll. A concrete post with disk in top. (96.542 meters or 316.738 feet.)

End of spur line.

U 68.—About 0.2 mile east of **Redfield**, Nacogdoches County, on the Houston East & West Texas Railway, at milepost 144, 2 feet south of the track, on a large pile in the west end of bridge No. 143E. A brass disk. Reported destroyed in 1921. (112.622 meters or 369.494 feet.)

T 68.—At **Appleby**, Nacogdoches County, on the Houston East & West Texas Railway, in the northeast quarter of a crossing, 40 inches above the ground, on the west face of the southwest corner of Blacksher & White Co.'s store. A brass disk. (126.165 meters or 413.926 feet.)

S 68.—About 0.2 mile west of **Mayotown**, Nacogdoches County, on the Houston East & West Texas Railway, 3 yards north of the track, on the coping on the north end of culvert No. 149E. A brass disk. (109.573 meters or 359.491 feet.)

R 68.—At **Mayotown**, Nacogdoches County, on the Houston East & West Texas Railway, 30 yards west of the depot and 2 yards south of the track, on the brick culvert No. 150B. A brass disk. (109.169 meters or 358.165 feet.)

Q 68.—About 3 miles east of **Mayotown**, Nacogdoches County, on the Houston East & West Texas Railway, south of the track, on the coping at the south end of the brick culvert No. 153A, 150 yards east of milepost 153. A brass disk. (108.782 meters or 356.896 feet.)

P 68.—About 0.8 mile west of **Garrison**, Nacogdoches County, on the Houston East & West Texas Railway, on the coping at the north end of a culvert. An outlined square. (115.156 meters or 377.808 feet.)

O 68.—At **Garrison**, Nacogdoches County, on Main Street at the northeast corner of the Plaza, 4 feet above the ground, on the south face and 1 foot west of the corner of the brick building owned by Mrs. W. Y. Garrison and occupied by Ell Westfall's store. A brass disk. (120.088 meters or 393.823 feet.)

M 68.—About 5 miles west of **Timpson**, Shelby County, and 4 miles east of **Garrison**, on the **Houston East & West Texas Railway**, in the northeast quarter of a crossing, 143 yards west of the signpost "Gallagher," 11.5 feet east of the road and 10.5 feet north of the track. A concrete post with disk in top. (105.845 meters or 347.260 feet.)

L 68.—At **Timpson**, Shelby County, on the **Houston East & West Texas Railway**, on the southeast corner of the crossing on the main street west of the depot and plaza, 16 bricks above the sidewalk, in the east face of the solid brick wall of the building of **H. Schurz**. A brass disk. (123.089 meters or 403.834 feet.)

K 68.—At **Timpson**, Shelby County, on the south side of the **Plaza**, on the main street east and west, in the center pillar of the **Cotton Belt State Bank Building**, 9 inches east of the west corner, in the center of the third stone above the sidewalk. A brass disk. (124.179 meters or 407.411 feet.)

J 68.—About 2.8 miles east of **Timpson**, Shelby County, on the **Houston East & West Texas Railway**, in the southwest quarter of **Bryant Crossing**, on **Frank Bussey's** land, east of stock gap No. 169A, 3 feet east of the west road fence and 12 feet south of the track. A concrete post with disk in top. (109.243 meters or 358.408 feet.)

I 68.—At **Bobo**, Shelby County, on the **Houston East & West Texas Railway**, in the southwest quarter of a crossing, 144 feet west of the signpost "Bobo" and 11 feet south of the track. A concrete post with disk in top. (96.797 meters or 317.575 feet.)

N 68.—About 2 miles east of **Bobo**, Shelby County, on the **Houston East & West Texas Railway**, 20 feet south of the track on the east end of a brick culvert, 60 feet east of milepost 174 and 0.5 mile west of some section houses. A brass disk. (101.299 meters or 332.345 feet.)

G 68.—At **Tenaha**, Shelby County, on the west side of the public square, 1 meter above the sidewalk, on the wall, 0.2 meter north of the southeast corner of **McFarland** and **Hill's** brick building. A brass disk. (108.955 meters or 357.463 feet.)

H 68.—At **Tenaha**, Shelby County, on the south side of the public square, 1 meter above the sidewalk, on the brick wall, 0.2 meter east of the northwest corner of the **First State Bank Building**. A brass disk. (108.361 meters or 355.514 feet.)

F 68.—About 1.4 miles west of **Paxton**, Shelby County, on the **Houston East & West Texas Railway**, midway between the eleventh and twelfth telegraph poles west of milepost 180, and 6 meters north of the track. A concrete post with disk in top. (97.030 meters or 318.339 feet.)

E 68.—About 0.8 mile east of **Paxton**, Shelby County, on the **Houston East & West Texas Railway**, 1 meter north of the track, on a concrete culvert midway between the fifth and sixth telegraph poles west of milepost 182. A brass disk. (103.199 meters or 338.579 feet.)

D 68.—About 3.6 miles west of **Joaquin**, Shelby County, on the **Houston East & West Texas Railway**, 18 telegraph poles west of milepost 185 and about 8 feet south of the track. A concrete post with disk in top. (81.419 meters or 267.122 feet.)

C 68.—At **Joaquin**, Shelby County, on **Main Street**, 1 meter above the sidewalk, in the brick wall at the northwest corner of **G. M. Crawford's** building. A brass disk. (67.993 meters or 223.074 feet.)

DESCRIPTIONS AND ELEVATIONS OF SECONDARY POINTS.

LINE I, BOWIE, TEX., TO ANTHONY, KANS. (PART).

Elevation of top of rail in front of railroad stations.

Place.	Standard elevation.		Place.	Standard elevation.	
	Meters.	Feet.		Meters.	Feet.
<i>Chicago, Rock Island & Pacific Railway.</i>			<i>Chicago, Rock Island & Pacific Railway—Continued.</i>		
Bowie	332.38	1,090.48	Stonesburg	284.97	934.04
Bowie (Fort Worth & Denver City Railway crossing).....	331.20	1,086.61	Ringgold	271.01	889.14

LINE II, BOWIE, TEX., TO SHREVEPORT, LA. (PART).

Elevation of top of rail in front of railroad stations.

Place.	Standard elevation.		Place.	Standard elevation.	
	Meters.	Foot.		Meters.	Foot.
<i>Fort Worth & Denver City Railway.</i>			<i>Missouri, Kansas & Texas Railway.</i>		
Bowie.....	342.63	1,124.11	Dallas.....	130.81	429.17
Fruitland.....	319.87	1,049.44	Fisher.....	161.75	530.67
Sunset.....	302.33	991.89	Garland.....	164.80	540.68
Alvord.....	268.09	879.56	Rowlett.....	154.89	508.17
Cowen.....	265.87	872.28	Harry (in front of station sign)	127.65	418.80
Decatur.....	322.40	1,057.74	Rockwall.....	168.55	552.98
Herrnan (in front of station sign).....	284.34	932.87	Fato.....	177.82	583.40
Rhome.....	284.56	933.59	Royse City.....	168.66	553.35
Avondale.....	257.20	843.83	Caddo Mills.....	162.27	532.38
Caleb (in front of station sign).....	254.91	836.32	Greenville.....	155.64	510.63
Saginaw (Gulf, Colorado & Santa Fe Railway crossing).....	220.64	723.88	Campbell.....	178.09	584.28
<i>Chicago, Rock Island & Pacific Railway.</i>			Cumby.....	193.32	634.25
Saginaw (Gulf, Colorado & Santa Fe Railway crossing).....	220.72	724.15	Brashear.....	156.21	512.50
Saginaw.....	221.79	727.66	Sulphur Springs.....	150.41	493.47
<i>Texas & Pacific Railway.</i>			Corn.....	162.01	531.53
Fort Worth.....	187.03	613.01	Pickton.....	163.25	535.60
Handley.....	170.74	559.70	Winnboro.....	159.08	521.91
Arlington.....	187.69	615.78	Scroggins.....	109.22	358.33
Grand Prairie.....	160.90	527.89	Leesburg.....	119.94	393.50
Eagle Ford.....	134.32	440.68	Pittsburg.....	119.41	391.76
Trinity River Bridge (center).....	129.98	426.44	Faker.....	97.06	318.44
Dallas.....	131.11	430.15	Cason.....	162.61	536.65
			Daingerfeld.....	120.64	395.80
			Hughes.....	113.73	373.13
			Avinger.....	120.79	396.29
			Lasater.....	101.79	333.96
			Jefferson.....	58.12	190.68
			Karnack.....	72.09	236.52
			Blocker.....	80.85	265.26
			Waskom.....	90.49	296.88

LINE III, FORT WORTH TO COMANCHE, TEX.

Elevation of top of rail in front of railroad station.

Place.	Standard elevation.	
	Meters.	Foot.
<i>Fort Worth & Rio Grande Railway.</i>		
Prinrose.....	235.71	773.33

LINE IV, FORT WORTH TO LAMPASAS, TEX.

Elevation of top of rail in front of railroad stations.

Place.	Standard elevation.		Place.	Standard elevation.	
	Meters.	Foot.		Meters.	Foot.
<i>Missouri, Kansas & Texas Railway.</i>			<i>Missouri, Kansas & Texas Railway—Continued.</i>		
Alvarado.....	211.31	693.27	Troy.....	207.20	679.99
Grand View.....	211.09	695.60	Templo.....	210.04	691.07
Hillsboro.....	189.34	621.19	<i>Gulf, Colorado & Santa Fe Railway.</i>		
Abbott.....	217.26	712.79	Nolanville.....	211.83	694.98
West.....	197.54	648.10	Killeen.....	253.67	832.25
Elm Mott.....	157.87	517.95	Copperas Cove.....	331.08	1,086.22
Waco.....	126.39	414.66	Kempner.....	266.93	876.76
Lorona.....	180.74	592.98			
Bruceville.....	180.87	591.76			
Eddy.....	204.91	672.28			

LINE V, TEMPLE TO HOLLAND, TEX.

Elevation of top of rail in front of railroad stations.

Place.	Standard elevation.	
	Meters.	Feet.
<i>Missouri, Kansas & Texas Railway.</i>		
Little River.....	153.50	503.61
Holland.....	150.37	522.87

LINE VI, HOLLAND TO NEW BRAUNFELS, TEX.

Elevation of top of rail in front of railroad stations.

Place.	Standard elevation.		Place.	Standard elevation.	
	Meters.	Feet.		Meters.	Feet.
<i>Missouri, Kansas & Texas Railway.</i>			<i>Missouri, Kansas & Texas Railway—Continued.</i>		
Bartlett.....	182.47	598.65	Hills Prairie.....	108.18	354.92
Granger.....	176.23	578.35	Upton.....	104.30	342.49
Circleville.....	167.69	550.16	Fawcett.....	101.10	331.89
Hoxie.....	186.29	611.19	Smithville.....	98.95	324.64
Taylor.....	165.81	543.99	Rosanky.....	154.83	507.97
Coupland.....	159.09	521.95	Hemkons.....	133.77	439.88
Elgin.....	173.60	569.55	Tomlin.....	102.72	338.86
Elgin (Houston & Texas Central Railroad crossing).....	173.55	569.39	Red Rock.....	147.35	483.43
<i>Houston & Texas Central Railroad (spur line).</i>			Bateman.....	144.15	472.93
Elgin (freight station).....	174.07	571.09	Dale.....	158.43	510.78
Lüttig.....	139.21	456.72	Lockhart.....	157.85	517.88
Manor.....	160.88	527.82	Blanks.....	171.37	562.24
Daffan.....	187.77	616.04	Clear Fork.....	173.13	568.01
Austin (freight station).....	141.97	465.78	Maxwell.....	184.34	604.79
<i>Missouri, Kansas & Texas Railway.</i>			Reedville.....	172.42	565.08
Sayersville.....	124.29	407.77	<i>International & Great Northern Railway.</i>		
Bastrop.....	112.31	368.47	San Marcos.....	176.99	580.67
			Hunter.....	191.30	627.92
			Goodwin.....	219.56	690.81
			New Braunfels.....	194.32	637.53

LINE VII, ALBUQUERQUE, N. MEX., TO EL PASO, TEX. (PART).

Elevation of top of rail in front of railroad stations.

Place.	Standard elevation.		Place.	Standard elevation.	
	Meters.	Feet.		Meters.	Feet.
<i>Atchison, Topeka & Santa Fe Railway.</i>			<i>Southern Pacific Railroad.</i>		
Vinton (siding).....	1,154.19	3,788.71	El Paso.....	1,135.49	3,725.35
Canutillo (spur).....	1,147.93	3,766.17	El Paso (Union Station).....	1,135.50	3,725.39
Montoya (siding).....	1,144.44	3,764.72			
Whites spur.....	1,142.19	3,747.34			
El Paso.....	1,130.73	3,709.74			

LINE VIII, SMITHVILLE TO GALVESTON, TEX.

Elevation of top of rail in front of railroad stations.

Place.	Standard elevation.		Place.	Standard elevation.	
	Meters.	Feet.		Meters.	Feet.
<i>Missouri, Kansas & Texas Railway.</i>			<i>Galveston, Houston & Henderson Railroad (spur).</i>		
Kirtley.....	94.85	311.19	Houston.....	15.78	51.77
Westpoint.....	91.20	299.41	<i>Missouri, Kansas & Texas Railway.</i>		
Plum.....	91.89	301.48	Houston.....	10.82	35.50
Lagrange.....	81.55	267.55	<i>Houston (San Antonio & Aransas Pass Railway crossing)</i>		
Halsted.....	97.04	318.37	Houston.....	15.23	49.97
Fayetteville.....	120.48	395.27	<i>Houston (Galveston, Harrisburg & San Antonio Railway crossing)</i>		
Hatter.....	98.49	323.13	Dumont.....	12.07	39.60
Pisok.....	83.37	289.93	Genoa.....	11.83	38.98
Now Ulm.....	119.49	382.03	Webster.....	14.30	47.11
Cat Spring.....	93.03	305.38	League City.....	8.82	28.94
Sealy.....	02.02	203.48	Dickinson.....	7.03	23.06
<i>Sealy (Gulf, Colorado & Santa Fe Railway crossing)</i>			Lamarque (four rails north of depot).....	6.05	21.82
San Felipe.....	47.42	155.58	Texas City Junction.....	4.75	15.58
McDowell.....	39.45	129.43	Virginia Point.....	3.21	10.63
Brookshire.....	40.77	133.29	Galveston.....	2.29	7.51
Dorson.....	48.53	159.22		1.76	5.77
Katy.....	43.46	142.59			
Burnap.....	38.60	126.64			
Barker.....	32.91	107.97			
Letitia.....	29.82	97.83			
Hillendahl.....	26.63	87.37			
Eureka (Houston & Texas Central Railroad Crossing).....	21.26	69.75			

LINE IX, EL RENO, OKLA., TO JERICHO, TEX. (PART).

Elevation of top of rail in front of railroad stations.

Place.	Standard elevation.		Place.	Standard elevation.	
	Meters.	Feet.		Meters.	Feet.
<i>Chicago, Rock Island & Gulf Railway.</i>			<i>Chicago, Rock Island & Gulf Railway - Continued.</i>		
Bononlue.....	653.71	2,144.71	McLean.....	871.45	2,859.08
Fuller.....	965.33	2,182.84	Alanreed.....	927.41	3,042.68
Shamrock.....	710.03	2,331.40	Rockledge.....	965.11	3,167.35
Lela.....	736.20	2,415.35	Jericho.....	976.30	3,203.08
Ramsdell.....	781.65	2,564.46			

LINE X, FORT WORTH TO EL PASO, TEX.

Elevation of rail in front of railroad stations.

Place.	Standard elevation.		Place.	Standard elevation.	
	Meters.	Feet.		Meters.	Feet.
<i>Texas & Pacific Railway.</i>			<i>Texas & Pacific Railway—Con.</i>		
Benbrook.....	202.73	665.12	Metz.....	871.57	2,859.48
Iona.....	293.08	961.55	Sand Hills.....	826.02	2,710.03
Earls.....	276.53	907.25	Monahans.....	799.22	2,622.11
Lambert.....	352.89	1,157.77	Aroya.....	813.03	2,667.42
Bennets.....	229.89	754.23	Pyote.....	799.07	2,621.62
Santo.....	250.87	823.06	Quito.....	815.66	2,676.04
Judd.....	279.48	910.93	Barstow.....	781.91	2,565.32
Mingus.....	290.70	953.74	Pecos.....	787.62	2,584.05
Strawn.....	305.81	1,003.31	Hermosa.....	832.58	2,731.56
Wiles.....	354.49	1,163.02	Toyah.....	888.30	2,914.36
Ranger.....	439.07	1,440.51	Gomez.....	998.98	3,277.49
Eastland.....	436.82	1,433.13	San Martino.....	1,133.41	3,718.53
Lem.....	458.70	1,504.92	Kent.....	1,283.78	4,211.87
Clisco.....	493.53	1,619.19	Boracho.....	1,359.11	4,450.01
Dothan.....	493.76	1,619.94	Plateau.....	1,202.37	3,944.78
Putnam.....	489.35	1,605.48	Wild Horse.....	1,173.99	3,851.67
Chataouqua.....	465.61	1,527.59	Van Horn.....	1,233.71	4,047.60
Baird.....	523.89	1,718.80	Allamore.....	1,386.94	4,550.32
Clyde.....	606.29	1,989.14	Eagle Flat.....	1,359.91	4,461.64
Abilene.....	524.14	1,719.62	Sierra Blanca.....	1,377.12	4,518.10
Tye.....	548.93	1,800.95			
Merkel.....	570.56	1,871.91	<i>Galveston, Harrisburg & San Antonio Railway.</i>		
Trent.....	583.83	1,915.45	Etholen.....	1,418.47	4,653.76
Eskota.....	591.68	1,941.20	Lasca.....	1,365.61	4,480.34
Sweetwater.....	660.29	2,166.30	Forcer.....	1,302.74	4,274.07
Roscoe.....	727.81	2,387.82	Finlay.....	1,204.27	3,951.01
Lorraine.....	690.97	2,266.96	Tinaja.....	1,173.35	3,849.57
Colorado.....	630.92	2,069.94	Madden.....	1,119.30	3,672.43
Westbrook.....	650.66	2,134.71	Nulo.....	1,088.30	3,570.73
Jataw.....	675.00	2,214.50	Fort Hancock.....	1,095.93	3,595.66
Coahoma.....	735.32	2,412.46	Iser.....	1,121.82	3,680.50
Big Spring.....	731.82	2,400.98	Tolvo.....	1,114.90	3,657.80
Morita.....	754.39	2,475.03	Tornillo.....	1,093.18	3,586.54
Stanton.....	811.98	2,663.67	Fabens.....	1,103.20	3,619.61
Germania.....	838.79	2,751.93	Belen.....	1,113.84	3,654.32
Midland.....	846.48	2,777.16	Ysleta.....	1,118.48	3,666.55
Warfield.....	874.76	2,869.94	Alfalfa.....	1,125.52	3,682.64
Odessa.....	892.84	2,936.45			
Doutro.....	940.28	3,084.74			
Judkins.....	880.16	2,887.66			

LINE XI, JERICHO, TEX., TO ISLETA, N. MEX. (PART).

Elevation of top of rail in front of railroad stations.

Place.	Standard elevation.		Place.	Standard elevation.	
	Meters.	Feet.		Meters.	Feet.
<i>Chicago, Rock Island & Gulf Railway.</i>			<i>Atchison, Topeka & Santa Fe Railway—Continued.</i>		
Groom.....	995.02	3,264.49	Umbarger.....	1,148.52	3,768.10
Lark.....	1,028.63	3,374.76	Dawn.....	1,159.03	3,802.58
Conway.....	1,054.19	3,458.62	Hersford.....	1,162.66	3,814.49
Royal.....	1,097.05	3,599.24	Joel.....	1,148.87	3,769.25
			Summerfield.....	1,200.09	3,937.29
<i>Atchison, Topeka & Santa Fe Railway.</i>			Black.....	1,217.60	3,994.74
Haney.....	1,110.50	3,643.37	Friona.....	1,221.42	4,007.28
Canyon.....	1,088.51	3,571.22	Parmerton.....	1,273.71	4,178.83
Lester.....	1,118.25	3,668.79	Bovina.....	1,240.31	4,069.25
			Wilsey.....	1,271.07	4,170.17

LINE XII, CLOVIS, N. MEX., TO PECOS, TEX. (PART).

Elevation of base of rail in front of railroad stations.

Place.	Standard elevation.		Place.	Standard elevation.	
	Meters.	Feet.		Meters.	Feet.
<i>Atchison, Topeka & Santa Fe Railway (Panhandle & Santa Fe).</i>			<i>Atchison, Topeka & Santa Fe Railway—Continued.</i>		
Orla.....	870. 81	2, 856. 98	Patrole.....	797. 20	2, 615. 48
Riverton.....	828. 29	2, 717. 48	<i>Texas & Pacific Railway.</i>		
Dixieland.....	819. 02	2, 687. 07	Pecos.....	787. 62	2, 581. 05
Arno.....	813. 84	2, 670. 07			

LINE XIII, SIERRA BLANCA TO SAN ANTONIO, TEX.

Elevation of base of rail in front of railroad stations.

Place.	Standard elevation.		Place.	Standard elevation.	
	Meters.	Feet.		Meters.	Feet.
<i>Southern Pacific Railroad.</i>			<i>Southern Pacific Railroad—Continued.</i>		
Villa.....	1, 330. 00	4, 363. 51	Wendell.....	1, 287. 43	4, 223. 84
Brila.....	1, 334. 50	4, 378. 47	Rubio.....	1, 317. 42	4, 322. 24
Terbert.....	1, 325. 21	4, 347. 79	Quebec.....	1, 409. 28	4, 623. 61
Hot Wells.....	1, 306. 05	4, 284. 93	Galgo.....	1, 400. 54	4, 791. 79
Dalberg.....	1, 278. 06	4, 193. 10	Marfa.....	1, 430. 26	4, 692. 44
Collado.....	1, 263. 76	4, 146. 19			
Danube.....	1, 234. 30	4, 049. 53			

TEMPORARY BENCH MARKS AND ELEVATIONS OF RAIL IN FRONT OF RAILROAD STATIONS.

Southern Pacific Railroad.

- 8.—About 1.8 miles east of **Marfa**, Presidio County, a spike in milepost 631. (1,442.06 meters or 4,734.11 feet.)
- 9.—About 3.8 miles east of **Marfa**, Presidio County, a spike in the southeast corner of a railroad culvert near milepost 629. (1,466.50 meters or 4,811.34 feet.)
- 10.—About 0.7 mile west of **Nopal**, Presidio County, a spike in milepost 627. (1,457.76 meters or 4,782.67 feet.)
- At **Nopal**, Presidio County, top of rail. (1,467.60 meters or 4,814.95 feet.)
- 11.—About 1.3 miles east of **Nopal**, Presidio County, a spike in milepost 625. (1,480.52 meters or 4,857.34 feet.)
- 12.—About 3.3 miles east of **Nopal**, Presidio County, the middle and lowest one of 3 spikes in milepost 623. (1,499.48 meters or 4,919.54 feet.)
- 13.—About 1.6 miles west of **Paisano**, Presidio County, the middle and lowest one of 3 spikes in milepost 621. (1,521.04 meters or 4,990.28 feet.)
- At **Paisano**, Presidio County, top of rail. (1,546.16 meters or 5,072.69 feet.)
- 14.—About 0.4 mile east of **Paisano**, Presidio County, the top of a 2-inch pipe a short distance northeast of milepost 619. (1,543.35 meters or 5,063.47 feet.)
- 15.—About 2.4 miles east of **Paisano**, Presidio County, a spike in milepost 617. (1,510.91 meters or 4,957.04 feet.)
- 16a.—About 2.6 miles west of **Toronto**, Brewster County, a spike in milepost 615. (1,479.19 meters or 4,852.98 feet.)
- 16.—About 0.6 mile west of **Toronto**, Brewster County, a spike in milepost 613. (1,450.59 meters or 4,759.14 feet.)

- At Toronto, Brewster County, top of rail. (1,444.26 meters or 4,738.33 feet.)
- 18.—About 1.4 miles east of Toronto, Brewster County, a spike in milepost 611. (1,424.40 meters or 4,673.22 feet.)
- 19.—About 1.8 miles west of Alpine, Brewster County, a spike in milepost 609. (1,393.42 meters or 4,571.58 feet.)
- At Alpine, Brewster County, top of rail. (1,366.85 meters or 4,484.41 feet.)
- 20.—About 0.1 mile east of Alpine, Brewster County, a spike in the third telegraph pole west of milepost 607. (1,366.48 meters or 4,483.19 feet.)
- 21.—About 2.1 miles east of Alpine, Brewster County, a spike in the first telegraph pole east of milepost 605. (1,361.89 meters or 4,468.13 feet.)
- 22.—About 2.8 miles west of Strobel, Brewster County, a spike in the south-east corner of culvert No. 603A, near milepost 603. (1,370.75 meters or 4,497.20 feet.)
- 23.—About 0.8 mile west of Strobel, Brewster County, a spike in milepost 601. (1,361.18 meters or 4,465.80 feet.)
- At Strobel, Brewster County, top of rail. (1,353.04 meters or 4,439.10 feet.)
- 24.—About 1.2 miles east of Strobel, Brewster County, a spike in milepost 599. (1,352.87 meters or 4,438.54 feet.)
- 25.—About 3.2 miles east of Strobel, Brewster County, a spike in milepost 597. (1,370.71 meters or 4,497.07 feet.)
- 26.—About 5.2 miles east of Strobel, Brewster County, a spike in the south side, 8 feet west of the east end of bridge No. 594C, near milepost 595. (1,387.27 meters or 4,551.40 feet.)
- 27.—About 6.2 miles east of Strobel, Brewster County, a spike in the first telegraph pole east of milepost 594. (1,402.79 meters or 4,602.32 feet.)
- 28.—About 7.2 miles east of Strobel, Brewster County, a spike in first fence post east of milepost 593 on south side of track. (1,407.01 meters or 4,616.17 feet.)
- 29.—About 1.5 miles west of Altuda, Brewster County, a spike in the first telegraph pole east of milepost 593. (1,406.82 meters or 4,615.54 feet.)
- At Altuda, Brewster County, top of rail. (1,415.02 meters or 4,642.44 feet.)
- 30.—About 0.5 mile east of Altuda, Brewster County, the middle one of three spikes in milepost 591. (1,412.12 meters or 4,632.93 feet.)
- About 2.5 miles east of Altuda, Brewster County, at the east end of bridge No. 589C, top of rail. (1,390.77 meters or 4,562.88 feet.)
- 29a.—About 4.4 miles west of Lenox, Brewster County, the middle one of three spikes in the first telegraph pole east of milepost 589. (1,379.73 meters or 4,526.66 feet.)
- 30a.—About 2.4 miles west of Lenox, Brewster County, the middle one of three spikes in milepost 587. (1,348.82 meters or 4,425.25 feet.)
- About 0.4 mile west of Lenox, Brewster County, bridge No. 585B, top of rail. (1,331.21 meters or 4,367.48 feet.)
- 31.—About 0.4 mile west of Lenox, Brewster County, the middle one of three spikes in the first telegraph pole east of milepost 585. (1,323.13 meters or 4,340.97 feet.)
- At Lenox, Brewster County, top of rail. (1,322.84 meters or 4,340.02 feet.)
- 32.—About 1.6 miles east of Lenox, Brewster County, the middle one of three spikes in the southeast end of culvert No. 583A, near milepost 583. (1,299.58 meters or 4,263.71 feet.)
- 33.—About 3.6 miles east of Lenox, Brewster County, a spike in the southeast corner of culvert No. 581A, near milepost 581. (1,268.68 meters or 4,162.33 feet.)
- 34.—About 3 miles west of Marathon, Brewster County, the lowest and middle one of three spikes in the first telegraph pole east of milepost 579. (1,248.99 meters or 4,097.73 feet.)
- 35.—About 1 mile west of Marathon, Brewster County, the lowest and middle one of three spikes in the first telegraph pole east of milepost 577. (1,234.09 meters or 4,048.84 feet.)
- About 0.7 mile west of Marathon, Brewster County, bridge No. 576C, top of rail. (1,231.83 meters or 4,041.43 feet.)
- 36.—About 1 mile east of Marathon, Brewster County, the lowest and middle one of three spikes in the first telegraph pole east of milepost 575. (1,248.60 meters or 4,096.65 feet.)
- About 2.3 miles east of Marathon, Brewster County, bridge No. 573A, top of rail. (1,263.59 meters or 4,145.03 feet.)
- 37.—About 3 miles east of Marathon, Brewster County, the middle and lowest one of three spikes in the first telegraph pole east of milepost 573. (1,267.65 meters or 4,158.95 feet.)

About 4.2 miles east of **Marathon**, Brewster County, bridge No. 571A, top of rail. (1,261.53 meters or 4,138.87 feet.)

38.—About 5 miles east of **Marathon**, Brewster County, the middle and lowest one of three spikes in the first telegraph pole east of milepost 571. (1,259.38 meters or 4,131.82 feet.)

39.—About 1.6 miles west of **Warwick**, Brewster County, the middle and lowest one of three spikes in the first telegraph pole east of milepost 569. (1,244.69 meters or 4,083.62 feet.)

At **Warwick**, Brewster County, top of rail. (1,241.36 meters or 4,072.70 feet.)

40.—About 0.4 mile east of **Warwick**, Brewster County, the lowest one of three spikes in the northwest end of culvert No. 567A, near milepost 567. (1,240.52 meters or 4,069.94 feet.)

About 0.8 mile east of **Warwick**, Brewster County, bridge No. 566B, top of rail. (1,240.54 meters or 4,070.00 feet.)

41.—About 1.4 miles east of **Warwick**, Brewster County, the middle and lowest one of three spikes in the first telegraph pole east of milepost 566. (1,237.96 meters or 4,061.54 feet.)

42.—About 2.4 miles east of **Warwick**, Brewster County, the middle and lowest one of three spikes in the first telegraph pole east of milepost 565. (1,229.20 meters or 4,032.80 feet.)

43.—About 2.6 miles west of **Haymond**, Brewster County, the middle and lowest one of three spikes in the first telegraph pole east of milepost 563. (1,210.40 meters or 3,971.12 feet.)

About 1.4 miles west of **Haymond**, Brewster County, bridge No. 561E, top of rail. (1,197.71 meters or 3,929.49 feet.)

44.—About 0.6 mile west of **Haymond**, Brewster County, the middle and lowest one of three spikes in the first telegraph pole east of milepost 561. (1,189.29 meters or 3,901.86 feet.)

About 0.4 mile west of **Haymond**, Brewster County, at the east end of bridge No. 560E, top of rail. (1,187.99 meters or 3,897.60 feet.)

At **Haymond**, Brewster County, top of rail. (1,183.60 meters or 3,883.19 feet.)

45.—About 0.4 mile east of **Haymond**, Brewster County, a spike in milepost 560. (1,170.88 meters or 3,870.99 feet.)

46.—About 1.4 miles east of **Haymond**, Brewster County, a spike in the southeast corner of bridge No. 559A, near milepost 559. (1,172.11 meters or 3,845.50 feet.)

About 2.5 miles east of **Haymond**, Brewster County, bridge No. 557E, top of rail. (1,186.71 meters or 3,893.40 feet.)

47.—About 3.4 miles east of **Haymond**, Brewster County, the middle and lowest one of three spikes in the first telegraph pole east of milepost 557. (1,181.93 meters or 3,877.72 feet.)

About 5 miles east of **Haymond**, Brewster County, bridge No. 555B, top of rail. (1,171.78 meters or 3,844.41 feet.)

48.—About 3 miles west of **Tesnus**, Brewster County, the middle and lowest one of three spikes in the first telegraph pole east of milepost 555. (1,166.96 meters or 3,828.60 feet.)

49.—About 1 mile west of **Tesnus**, Brewster County, the middle and lowest one of three spikes in the first telegraph pole east of milepost 553. (1,145.30 meters or 3,757.54 feet.)

At **Tesnus**, Brewster County, top of rail. (1,136.11 meters or 3,727.39 feet.)

50.—About 1 mile east of **Tesnus**, Brewster County, the middle and lowest one of three spikes in milepost 551. (1,121.55 meters or 3,679.62 feet.)

53.—About 3 miles east of **Tesnus**, Brewster County, a spike in the second telegraph pole east of milepost 549. (1,088.62 meters or 3,571.58 feet.)

At **Maxon**, Brewster County, top of rail. (1,080.90 meters or 3,546.25 feet.)

56.—About 1.4 miles east of **Maxon**, Brewster County, the lower one of two spikes in the first telegraph pole east of milepost 547. (1,059.42 meters or 3,475.78 feet.)

59.—About 3.4 miles east of **Maxon**, Brewster County, a spike in the west and north side of bridge No. 544F, near milepost 545. (1,062.71 meters or 3,486.57 feet.)

About 4 miles east of **Maxon**, Brewster County, bridge No. 544C, top of rail. (1,070.00 meters or 3,510.79 feet.)

62.—About 2 miles west of **Rosenfeld**, Brewster County, the lower one of two spikes in the first telegraph pole east of milepost 543. (1,092.31 meters or 3,583.69 feet.)

63.—At **Rosenfeld**, Brewster County, the lowest one of three spikes in the first telegraph pole east of milepost 541. (1,117.17 meters or 3,665.25 feet.)

At **Rosenfeld**, Brewster County, top of rail. (1,117.42 meters or 3,666.07 feet.)

64.—About 2 miles east of **Rosenfeld**, Brewster County, the lowest of three spikes in the first telegraph pole east of milepost 530. (1,096.31 meters or 3,596.81 feet.)

65.—About 4 miles east of **Rosenfeld**, Brewster County, the lowest of three spikes in the first telegraph pole east of milepost 537. (1,079.99 meters or 3,543.27 feet.)

About 4.2 miles east of **Rosenfeld**, Brewster County, at the east end and on the south side of bridge No. 536B, top of rail. (1,078.58 meters or 3,538.64 feet.)

66.—About 2.7 miles west of **Longfellow**, Pecos County, the lowest one of three spikes in the first telegraph pole east of milepost 535. (1,054.39 meters or 3,459.28 feet.)

68.—About 0.7 mile west of **Longfellow**, Pecos County, the lowest one of three spikes in the first telegraph pole east of milepost 533. (1,034.53 meters or 3,394.28 feet.)

At **Longfellow**, Pecos County, top of rail. (1,030.08 meters or 3,379.52 feet.)

69.—About 1.3 miles east of **Longfellow**, Pecos County, the lowest of three spikes in the first telegraph pole east of milepost 531. (1,012.33 meters or 3,321.29 feet.)

70.—About 3.3 miles east of **Longfellow**, Pecos County, the lowest one of three spikes in the first telegraph pole east of milepost 529. (990.39 meters or 3,249.30 feet.)

71.—About 2.7 miles west of **Emerson**, Terrell County, the lowest one of three spikes in the first telegraph pole east of milepost 527. (968.98 meters or 3,179.06 feet.)

74.—About 0.7 mile west of **Emerson**, Terrell County, a spike in the first telegraph pole east of milepost 525. (943.80 meters or 3,096.45 feet.)

At **Emerson**, Terrell County, top of rail. (943.17 meters or 3,094.38 feet.)

75.—About 1.3 miles east of **Emerson**, Terrell County, the lowest of three spikes in the first telegraph pole east of milepost 523. (927.72 meters or 3,043.69 feet.)

76.—About 3.3 miles east of **Emerson**, Terrell County, the lowest of three spikes in the first telegraph pole east of milepost 521. (904.21 meters or 2,966.56 feet.)

At **Gavilan**, Terrell County, top of rail. (895.86 meters or 2,939.17 feet.)

77.—About 1.1 miles east of **Gavilan**, Terrell County, a spike in the first telegraph pole east of milepost 519. (884.11 meters or 2,900.62 feet.)

78.—About 3.1 miles east of **Gavilan**, Terrell County, a spike in the west end, south side of bridge No. 516B, near milepost 517. (857.46 meters or 2,813.18 feet.)

81.—About 0.9 mile east of **Sanderson**, Terrell County, the lowest of three spikes in the first telegraph pole east of milepost 515. (839.01 meters or 2,752.65 feet.)

82.—About 2.9 miles east of **Sanderson**, Terrell County, a spike in the first telegraph pole east of milepost 513. (809.89 meters or 2,657.11 feet.)

83.—About 4.9 miles east of **Sanderson**, Terrell County, the lowest of three spikes in the first telegraph pole east of milepost 511. (784.34 meters or 2,573.29 feet.)

84.—About 0.4 mile west of **Feodora**, Terrell County, the lowest of three spikes in the first telegraph pole east of milepost 509. (759.29 meters or 2,491.10 feet.)

At **Feodora**, Terrell County, top of rail. (754.41 meters or 2,475.00 feet.)

85.—About 1.6 miles east of **Feodora**, Terrell County, the lowest of three spikes in the first telegraph pole east of milepost 507. (732.96 meters or 2,404.72 feet.)

86.—About 3.6 miles east of **Feodora**, Terrell County, the lowest of three spikes in the first telegraph pole east of milepost 505. (714.19 meters or 2,343.14 feet.)

87.—About 1.2 miles west of **Mofeta**, Terrell County, the lowest of three spikes in the first telegraph pole east of milepost 503. (732.90 meters or 2,404.52 feet.)

- At Mofeta, Terrell County, top of rail. (720.72 meters or 2,364.56 feet.)
 88.—About 0.8 mile east of Mofeta, Terrell County, the lowest of three spikes in the first telegraph pole east of milepost 501. (708.16 meters or 2,323.35 feet.)
 90.—About 2.8 miles east of Mofeta, Terrell County, a spike in the first telegraph pole east of milepost 499. (685.64 meters or 2,249.47 feet.)
 91.—About 2.2 miles west of Dryden, Terrell County, a spike in the first telegraph pole east of milepost 497. (664.49 meters or 2,180.08 feet.)
 92.—About 0.2 mile west of Dryden, Terrell County, a spike in the first telegraph pole east of milepost 495. (645.69 meters or 2,118.40 feet.)
 At Dryden, Terrell County, top of rail. (642.51 meters or 2,107.97 feet.)
 95.—About 1.8 miles east of Dryden, Terrell County, a spike in the first telegraph pole east of milepost 493. (633.82 meters or 2,079.46 feet.)
 100.—About 3.8 miles east of Dryden, Terrell County, a spike in the first telegraph pole east of milepost 491. (607.55 meters or 1,993.27 feet.)
 About 1.5 miles west of Thurston, Terrell County, Bridge No. 489A, top of rail. (593.36 meters or 1,946.72 feet.)
 101.—About 1 mile west of Thurston, Terrell County, a spike in the first telegraph pole east of milepost 489. (589.01 meters or 1,932.44 feet.)
 At Thurston, Terrell County, top of rail. (582.98 meters or 1,912.66 feet.)
 102.—About 1 mile east of Thurston, Terrell County, a spike in the west side of a mile board near milepost 487. (571.89 meters or 1,876.28 feet.)
 103.—About 5.5 miles west of Watkins, Terrell County, a spike in milepost 486. (565.45 meters or 1,855.15 feet.)

Elevation of base of rail in front of railroad stations.

Place.	Standard elevation.		Place.	Standard elevation.	
	Meters.	Feet.		Meters.	Feet.
<i>Southern Pacific Railroad.</i>			<i>Southern Pacific Railroad - Con.</i>		
Watkins.....	521.65	1,721.20	Kinney (opposite pumping station).....	310.21	1,017.72
Malvado.....	456.39	1,505.47	Spofford.....	307.53	1,008.95
Lozier.....	460.20	1,509.84	Nora.....	284.98	948.10
Pumpville.....	553.76	1,818.79	Paloma.....	249.35	818.08
Hijito.....	502.70	1,640.27	Olmos.....	234.41	760.06
Osman.....	474.73	1,557.61	Anacacho.....	206.60	673.39
Bean.....	430.52	1,432.15	Pavo.....	317.50	1,041.00
Langtry.....	397.76	1,304.98	Odlaw.....	313.31	1,033.38
Shumla.....	430.80	1,413.38	Cline.....	303.78	990.65
Viaduct.....	472.60	1,550.72	Obl.....	315.79	1,036.05
Rona.....	491.78	1,629.85	Haelenda.....	286.26	939.17
Comstock.....	471.16	1,545.80	Sansom.....	283.67	930.67
Cabra.....	432.44	1,418.76	Kulppa.....	300.21	984.91
Feely.....	378.85	1,242.94	Yuca.....	285.44	939.29
Bulls.....	341.82	1,131.30	D'Hanis.....	208.85	682.05
Devils River.....	291.04	954.85	Quilt.....	254.25	834.15
Del Rio.....	293.60	963.25	Dunlay.....	392.97	1,289.09
Johnstone.....	331.41	1,087.39	Noonan.....	236.76	770.77
Amanda.....	330.80	1,085.39	Idlewild.....	207.71	681.46
Standart.....	339.87	1,085.63	Withers.....	193.93	633.25
Pinto.....	322.95	1,059.55	Alazan.....	203.70	668.60
Macle.....	320.17	1,050.42			
Kinney.....	313.10	1,027.23			

LINE XIV, NEW BRAUNFELS TO BROWNSVILLE TO POINT ISABEL, TEX.

Elevation of top of rail in front of railroad stations.

Place.	Standard elevation.		Place.	Standard elevation.	
	Meters.	Feet.		Meters.	Feet.
<i>International & Great Northern Railway.</i>			<i>San Antonio & Aransas Pass Railway—Continued.</i>		
New Braunfels.....	193.95	636.32	Hobson.....	89.00	292.29
<i>Missouri, Kansas & Texas Railway.</i>			Karnes City.....	122.48	401.84
Solms.....	198.31	650.62	Kenedy.....	82.16	269.55
Comal.....	216.54	710.43	Green.....	147.93	485.33
Luxello.....	235.06	771.00	Pettus.....	90.92	298.29
Fratt.....	229.02	751.38	Tuleta.....	94.99	311.32
Benz.....	202.37	663.94	Normanna.....	82.96	272.18
<i>Southern Pacific Railroad.</i>			Boeville.....	65.04	213.39
San Antonio.....	202.23	663.48	Skldmore.....	48.45	158.96
<i>San Antonio & Aransas Pass Railway.</i>			Papolote.....	27.28	89.50
San Antonio.....	194.37	637.70	St. Paul.....	25.07	82.25
Southton.....	155.55	510.33	Sinton.....	15.11	49.57
Elmendorf.....	153.84	504.07	<i>St. Louis, Brownsville & Mexico Railway.</i>		
Saspamco.....	145.94	478.80	Calallen.....	10.21	33.50
Calaveras.....	125.77	412.63	Robstown.....	23.63	77.53
Floresville.....	118.46	388.65	Bishop.....	18.88	61.94
Poth.....	123.03	403.64	Sarita.....	10.87	35.66
Falls City.....	93.95	308.23	Yturria.....	12.83	41.11
			Raymondville.....	10.08	33.07
			Lyford.....	11.66	38.25
			San Benito.....	11.51	37.70
			Brownsville.....	10.19	33.43

LINE XV, SAN ANTONIO TO LAREDO.

TEMPORARY BENCH MARKS AND ELEVATION OF RAIL IN FRONT OF RAILROAD STATIONS.

International & Great Northern Railway.

196.—At Kirk, Bexar County, a spike in milepost 275. (197.89 meters or 649.24 feet.)

197.—About 1 mile north of Atascosa, Bexar County, a spike in the second telegraph pole north of milepost 277. (195.03 meters or 639.86 feet.)

198.—About 1 mile south of Atascosa, Bexar County, a spike in milepost 279. (217.74 meters or 714.37 feet.)

199.—About 1 mile north of Lytle, Atascosa County, 12 meters (39 feet) north of milepost 281; a bolt in bridge No. 281E. (211.31 meters or 693.27 feet.)

200.—About 1.7 miles north of Natalia, Medina County, a spike in milepost 285. (231.94 meters or 760.96 feet.)

201.—About 1 mile north of Natalia, Medina County, 25 meters (82 feet) south of milepost 286 and 6 meters (20 feet) west of the track; a spike in the sign "Station 1 mile." (213.65 meters or 700.95 feet.)

202.—At Natalia, Medina County, at the east end of the sidetrack, a spike in milepost 287, about 25 meters (82 feet) east of the track. (207.38 meters or 680.38 feet.)

At Natalia, Medina County, base of rail. (207.27 meters or 680.02 feet.)

203.—About 2 miles south of Natalia, Medina County, a spike in milepost 289, east of the track. (207.16 meters or 679.66 feet.)

204.—About 1.2 miles north of Devine, Medina County, a spike in milepost 291, east of the track. (198.90 meters or 652.56 feet.)

230.—About 1.8 miles south of Devine, Medina County, a spike in the second telegraph pole north of milepost 293, east of the track. (197.60 meters or 648.29 feet.)

231.—About 2.7 miles south of Devine, Medina County, a spike in the second telegraph pole north of milepost 294, east of the track. (196.43 meters or 644.45 feet.)

205.—About 3.7 miles south of Devine, Medina County, a spike in the first telegraph pole south of milepost 295, east of the track. (194.17 meters or 637.04 feet.)

At Wipff, Medina County, base of rail. (194.24 meters or 637.27 feet.)

206.—About 3 miles north of Moore, Frio County, a spike in milepost 297, east of the track. (192.35 meters or 631.07 feet.)

207.—About 1 mile north of Moore, Frio County, a spike in the first telegraph pole south of milepost 299, east of the track. (203.33 meters or 667.09 feet.)

208.—About 1 mile south of Moore, Frio County, a spike in the sixth telegraph pole north of milepost 301. (208.09 meters or 682.71 feet.)

209.—About 3 miles south of Moore, Frio County, a spike in the second telegraph pole north of milepost 303, west of the track. (234.93 meters or 770.77 feet.)

210.—About 5 miles south of Moore, Frio County, a spike in the first telegraph pole north of milepost 305, east of the track. (215.95 meters or 708.50 feet.)

211.—About 5.7 miles south of Moore, Frio County, a spike in the eleventh telegraph pole north of milepost 306, 11 meters (36 feet) west of the track. (211.71 meters or 694.59 feet.)

212.—About 5.7 miles north of Pearsall, Frio County, a spike in milepost 307, east of the track. (204.97 meters or 672.47 feet.)

213.—About 3.7 miles north of Pearsall, Frio County, a spike in the second telegraph pole north of milepost 309, east of the track. (205.78 meters or 675.13 feet.)

214.—About 1.5 miles north of Pearsall, Frio County, the south bolt on the east side of the bridge marked "311A," between the fifteenth and sixteenth telegraph poles north of milepost 311. (196.50 meters or 644.68 feet.)

215.—About 1 mile north of Pearsall, Frio County, a spike in milepost 311, east of the track. (193.09 meters or 633.50 feet.)

216.—At Pearsall, Frio County, a spike in the telegraph pole just north of the station, the twenty-third pole south of milepost 312. (190.34 meters or 624.47 feet.)

217.—About 0.2 mile south of Pearsall, Frio County, a spike in milepost 313, east of the track. (190.31 meters or 624.38 feet.)

218.—About 2.2 miles south of Pearsall, Frio County, a spike in milepost 315, east of the track. (182.97 meters or 600.29 feet.)

219.—At Stedman, Frio County, a spike in milepost 317, east of the track. (183.90 meters or 603.35 feet.)

At Stedman, Frio County, base of rail. (173.84 meters or 570.34 feet.)

220.—About 2 miles north of Derby, Frio County, a spike in milepost 319, east of the track. (166.01 meters or 544.65 feet.)

221.—At Derby, Frio County, a spike in milepost 321, east of the track. (159.54 meters or 523.42 feet.)

At Derby, Frio County, base of rail. (157.63 meters or 517.16 feet.)

222.—About 2 miles south of Derby, Frio County, a spike in milepost 323, east of the track. (143.24 meters or 469.95 feet.)

223.—About 2.5 miles south of Derby, Frio County, the northerly stringer bolt on the easterly guard or stringer of the Frio River trestle, nearly 12 telegraph poles south of milepost 323. (144.22 meters or 473.16 feet.)

224.—About 3.5 miles south of Derby, Frio County, a spike in the second telegraph pole north of milepost 324, east of the track. (144.59 meters or 474.38 feet.)

225.—About 3.8 miles north of Dilley, Frio County, a spike in milepost 325, east of the track. (151.90 meters or 498.36 feet.)

226.—About 1.8 miles north of Dilley, Frio County, a spike in milepost 327, east of the track. (161.23 meters or 528.97 feet.)

227.—About 0.2 mile north of Dilley, Frio County, a spike in the tenth telegraph pole north of milepost 329, east of the track. (171.27 meters or 561.91 feet.)

228.—About 0.2 mile south of Dilley, Frio County, a spike in the second telegraph pole south of milepost 329, east of the track. (166.80 meters or 547.24 feet.)

229.—About 2.2 miles south of Dilley, Frio County, a spike in the second telegraph pole south of milepost 331, east of the track. (167.89 meters or 550.82 feet.)

232.—About 2 miles north of Millett, La Salle County, a spike in the first telegraph pole south of milepost 333, east of the track. (150.28 meters or 492.98 feet.)

233.—At Millett, La Salle County, a spike in milepost 335, east of the track. (143.58 meters or 471.06 feet.)

234.—About 0.5 mile south of Millett, La Salle County, a spike in the nineteenth telegraph pole south of milepost 335, west of the track. (147.32 meters or 483.33 feet.)

235.—About 2.2 miles south of Millett, La Salle County, a spike in the first telegraph pole south of milepost 337, east of the track. (167.14 meters or 548.36 feet.)

236.—About 1.5 miles north of Gardendale, La Salle County, a spike in the tenth telegraph pole north of milepost 339, east of the track. (175.83 meters or 576.87 feet.)

At Gardendale, La Salle County, base of rail. (174.70 meters or 573.16 feet.)

237.—About 1 mile south of Gardendale, La Salle County, a spike in the fourth telegraph pole south of milepost 341, east of the track. (155.61 meters or 510.53 feet.)

238.—About 2.2 miles north of Cotulla, La Salle County, a spike in the first telegraph pole north of milepost 343, east of the track. (138.55 meters or 454.56 feet.)

239.—About 0.2 mile north of Cotulla, La Salle County, a spike in the second telegraph pole north of milepost 345, east of the track. (125.26 meters or 410.96 feet.)

240.—About 1.8 miles south of Cotulla, La Salle County, a spike in milepost 347, east of the track. (118.18 meters or 387.73 feet.)

241.—About 3.7 miles south of Cotulla, La Salle County, a spike in the fourth telegraph pole north of milepost 349, east of the track. (136.26 meters or 447.05 feet.)

242.—About 5.6 miles south of Cotulla, La Salle County, the southerly bolt on easterly stringer of bridge, seven telegraph poles north of milepost 351. (153.89 meters or 504.89 feet.)

243.—About 5.9 miles south of Cotulla, La Salle County, a spike in the second telegraph pole south of milepost 351, east of the track. (159.63 meters or 523.72 feet.)

244.—About 3 miles north of Artesia Wells, La Salle County, a spike in milepost 353, east of the track. (158.10 meters or 518.70 feet.)

245.—About 1 mile north of Artesia Wells, La Salle County, northerly bolt on westerly stringer of bridge marked "356A," halfway between the third and fourth telegraph poles south of milepost 355. (144.26 meters or 473.29 feet.)

246.—At Artesia Wells, La Salle County, a spike in the fourth telegraph pole north of milepost 356, east of the track. (140.82 meters or 462.01 feet.)

247.—About 1 mile south of Artesia Wells, La Salle County, southerly bolt on easterly stringer of bridge marked "358A," about 35 meters south of milepost 357. (131.97 meters or 432.97 feet.)

248.—About 3 miles south of Artesia Wells, La Salle County, a spike in the first telegraph pole south of milepost 359, east of the track. (134.37 meters or 440.85 feet.)

249.—About 4 miles south of Artesia Wells, La Salle County, a spike in the first telegraph pole north of milepost 360, west of the track. (140.63 meters or 461.33 feet.)

250.—About 5 miles south of Artesia Wells, La Salle County, a spike in the first telegraph pole south of milepost 361, east of the track. (152.48 meters or 500.26 feet.)

251.—About 5 miles south of Artesia Wells, La Salle County, a spike in the second telegraph pole south of milepost 361, west of the track. (153.41 meters or 503.31 feet.)

252.—About 3.2 miles north of Atlee, La Salle County, the fourth bolt from the southerly end of the westerly stringer of bridge marked "364A," about 6 meters north of milepost 363. (168.46 meters or 552.69 feet.)

253.—About 2.2 miles north of Atlee, La Salle County, a spike in the second telegraph pole north of milepost 364, west of the track. (160.14 meters or 525.39 feet.)

254.—About 1.2 miles north of Atlee, La Salle County, a spike in milepost 365, east of the track. (160.09 meters or 525.23 feet.)

At Atlee, La Salle County, base of rail. (157.01 meters or 515.12 feet.)

255.—About 0.8 mile south of **Atlee**, La Salle County, a spike in the second telegraph pole north of milepost 307, east of the track. (159.08 meters or 521.91 feet.)

256.—About 2.8 miles south of **Atlee**, La Salle County, a spike in milepost 309, east of the track. (158.72 meters or 520.73 feet.)

257.—About 2.3 miles north of **Encinal**, La Salle County, southerly bolt on easterly stringer of bridge marked "372A," about 25 meters (82 feet) south of milepost 371. (161.20 meters or 528.87 feet.)

258.—About 0.3 mile north of **Encinal**, La Salle County, northerly bolt on westerly stringer of bridge marked "378A," about 40 meters (131 feet) north of milepost 373. (165.98 meters or 544.55 feet.)

259.—About 1.3 miles south of **Encinal**, La Salle County, northerly bolt on easterly stringer of bridge marked "376A," halfway between the sixth and seventh telegraph poles south of milepost 375. (161.26 meters or 529.07 feet.)

260.—About 2.5 miles south of **Encinal**, La Salle County, a spike in the eighth telegraph pole south of milepost 376, east of the track. (162.32 meters or 532.54 feet.)

261.—About 3.5 miles south of **Encinal**, La Salle County, a spike in milepost 377, east of the track. (166.31 meters or 545.64 feet.)

262.—About 3.8 miles north of **Cactus**, Webb County, a spike in the first telegraph pole north of milepost 379, west of the track. (163.86 meters or 537.60 feet.)

263.—About 2.8 miles north of **Cactus**, Webb County, northerly bolt on westerly stringer of bridge marked "381A," near second telegraph pole south of milepost 380. (168.86 meters or 554.00 feet.)

264.—About 1.8 miles north of **Cactus**, Webb County, northerly bolt on easterly stringer of bridge marked "382A," about 25 meters (82 feet) south of milepost 381. (166.42 meters or 546.00 feet.)

265.—About 0.8 mile north of **Cactus**, Webb County, a spike in the first telegraph pole north of milepost 382. (170.02 meters or 557.81 feet.)

266.—At **Cactus**, Webb County, a spike in milepost 383. (174.71 meters or 573.19 feet.)

262.—About 2 miles south of **Cactus**, Webb County, a lag screw in the sixth telegraph pole south of milepost 385, east of the track. (188.23 meters or 617.55 feet.)

267.—About 4.5 miles north of **Webb**, Webb County, northerly bolt on the westerly stringer of bridge, one telegraph pole north of milepost 387. (182.22 meters or 597.83 feet.)

268.—About 2.5 miles north of **Webb**, Webb County, a lag screw in the seventh telegraph pole south of milepost 389, east of the track. (193.72 meters or 635.56 feet.)

269.—About 0.5 mile north of **Webb**, Webb County, a lag screw in the fifth telegraph pole north of milepost 391, west of the track. (188.54 meters or 618.57 feet.)

At **Webb**, Webb County, base of rail. (191.25 meters or 627.46 feet.)

270.—At **Webb**, Webb County, a lag screw in the thirteenth telegraph pole south of milepost 391, west of the track. (190.73 meters or 625.75 feet.)

271.—About 1.5 miles south of **Webb**, Webb County, a lag screw in a telegraph pole about 25 meters (82 feet) south of milepost 393, west of the track. (200.73 meters or 658.56 feet.)

272.—About 3.5 miles south of **Webb**, Webb County, a lag screw in the first telegraph pole south of milepost 395, east of the track. (213.34 meters or 699.93 feet.)

273.—About 5.5 miles south of **Webb**, Webb County, a lag screw in the second telegraph pole north of milepost 397, east of the track. (205.17 meters or 673.13 feet.)

274.—About 7.5 miles south of **Webb**, Webb County, a lag screw in the fifth telegraph pole north of milepost 399, east of the track. (207.01 meters or 679.17 feet.)

275.—About 9.5 miles south of **Webb**, Webb County, southerly bolt on westerly stringer of bridge marked "401C," halfway between the first and second telegraph poles north of milepost 401. (175.22 meters or 574.87 feet.)

276.—About 9 miles north of **Laredo**, Webb County, a spike in the first telegraph pole south of milepost 403, east of the track. (168.97 meters or 554.36 feet.)

277.—About 7 miles north of Laredo, Webb County, a spike in the fifth telegraph pole north of milepost 405, east of the track. (151.85 meters or 498.19 feet.)

278.—About 5 miles north of Laredo, Webb County, a spike in the third telegraph pole south of milepost 407, east of the track. (131.57 meters or 431.66 feet.)

279.—About 3 miles north of Laredo, Webb County, the southwesterly spike holding down switch stand to switch tie, 3 meters west of the track and between the sixth and seventh telegraph poles south of milepost 409. (129.66 meters or 425.39 feet.)

280.—About 1 mile north of Laredo, Webb County, a spike in the first telegraph pole north of milepost 411, east of the track. (128.03 meters or 420.05 feet.)

281.—At Laredo, Webb County, the northwesterly spike holding down switch stand to switch tie at the first switch north of the International & Great Northern Railway Co.'s depot, and halfway between the first and second telegraph poles south of milepost 412. (125.95 meters or 413.22 feet.)

LINE XVI, SINTON, TEX., TO NEW ORLEANS, LA.

TEMPORARY BENCH MARKS AND ELEVATION OF RAIL IN FRONT OF RAILROAD STATIONS.

St. Louis, Brownsville & Mexico Railway.

At Sinton, San Patricio County, top of rail. (15.60 meters or 51.18 feet.)

1.—About 0.9 mile north of Sinton, San Patricio County, a lag screw in the second telegraph pole north of milepost 163. (13.76 meters or 45.14 feet.)

2.—About 1.9 miles north of Sinton, San Patricio County, a lag screw in milepost 164. (17.10 meters or 56.10 feet.)

3.—About 3.9 miles north of Sinton, San Patricio County, a lag screw in the first telegraph pole south of milepost 166. (16.67 meters or 54.69 feet.)

4.—About 4.9 miles north of Sinton, San Patricio County, a lag screw in milepost 167. (15.80 meters or 51.84 feet.)

5.—About 5.9 miles north of Sinton, San Patricio County, a lag screw in milepost 168. (15.47 meters or 50.75 feet.)

6.—About 2 miles north of Ewelder, Refugio County, a lag screw in the first telegraph pole north of milepost 171. (13.20 meters or 43.31 feet.)

7.—About 3 miles north of Ewelder, Refugio County, a lag screw in the first telegraph pole north of milepost 172. (15.19 meters or 49.84 feet.)

8.—About 4 miles north of Ewelder, Refugio County, a lag screw in milepost 173. (13.82 meters or 45.34 feet.)

9.—About 0.7 mile north of Cranell, Refugio County, a lag screw in the ninth telegraph pole north of milepost 174. (14.22 meters or 46.65 feet.)

10.—About 2.5 miles north of Cranell, Refugio County, a lag screw in the first telegraph pole north of milepost 176. (14.58 meters or 47.83 feet.)

11.—About 3.5 miles north of Cranell, Refugio County, a lag screw in milepost 177. (13.87 meters or 45.51 feet.)

12.—About 1.8 miles south of Woodsboro, Refugio County, a lag screw in telegraph pole south of road crossing. (12.34 meters or 40.49 feet.)

13.—About 1 mile south of Woodsboro, Refugio County, a lag screw in telegraph pole just north of road crossing, 6 telegraph poles north of milepost 179. (13.10 meters or 42.98 feet.)

At Woodsboro, Refugio County, top of rail. (15.43 meters or 50.62 feet.)

14.—About 1 mile north of Woodsboro, Refugio County, a lag screw in milepost 181. (13.20 meters or 43.31 feet.)

At La Rosa, Refugio County, top of rail. (13.08 meters or 42.91 feet.)

15.—About 1.8 miles south of Refugio, Refugio County, a lag screw in the fourth telegraph pole north of milepost 184. (14.13 meters or 46.36 feet.)

At Refugio, Refugio County, top of rail. (15.65 meters or 51.35 feet.)

16.—About 1.2 miles north of Refugio, Refugio County, a lag screw in the sixth telegraph pole north of milepost 187. (14.96 meters or 49.08 feet.)

17.—About 3.5 miles north of Refugio, Refugio County, a lag screw in the fourteenth telegraph pole north of milepost 189. (16.09 meters or 52.79 feet.)

18.—About 4.2 miles north of Refugio, Refugio County, a lag screw in the third telegraph pole north of milepost 190. (17.07 meters or 56.00 feet.)

19.—About 1.2 miles south of Greta, Refugio County, a lag screw in the ninth telegraph pole north of milepost 192. (18.60 meters or 61.02 feet.)

20.—About 0.8 mile north of **Greta**, Refugio County, a lag screw in the ninth telegraph pole north of milepost 194. (19.78 meters or 64.89 feet.)

21.—About 1.6 miles north of **Greta**, Refugio County, a lag screw in the third telegraph pole north of milepost 195 (19.82 meters or 65.03 feet.)

22.—About 3.5 miles north of **Greta**, Refugio County, a lag screw in the third telegraph pole north of milepost 197. (20.59 meters or 67.55 feet.)

At **Vidauri**, Refugio County, top of rail. (22.44 meters or 73.62 feet.)

24.—About 1.2 miles north of **Vidauri**, Refugio County, a lag screw in the fifteenth telegraph pole north of milepost 199. (21.58 meters or 70.80 feet.)

25.—About 2.6 miles north of **Vidauri**, Refugio County, a lag screw in milepost 201. (21.76 meters or 71.39 feet.)

26.—About 3.0 miles south of **Inari**, Refugio County, a lag screw in milepost 202. (22.32 meters or 73.23 feet.)

27.—About 1.6 miles south of **Inari**, Refugio County, a lag screw in milepost 204. (23.14 meters or 75.92 feet.)

28.—About 0.6 mile south of **Inari**, Refugio County, a lag screw in milepost 205. (23.36 meters or 76.64 feet.)

At **Inari**, Refugio County, top of rail. (24.00 meters or 78.74 feet.)

29.—About 0.6 mile north of **Inari**, Refugio County, a lag screw in the eighth telegraph pole north of milepost 206. (21.51 meters or 70.57 feet.)

30.—About 1 mile south of **Marianna**, Victoria County, a lag screw in the eleventh telegraph pole north of milepost 208. (17.48 meters or 57.35 feet.)

At **Marianna**, Victoria County, top of rail. (23.73 meters or 77.85 feet.)

31.—About 1 mile north of **Marianna**, Victoria County, a lag screw on the twelfth telegraph pole north of milepost 210. (20.62 meters or 67.65 feet.)

32.—About 2 miles north of **Marianna**, Victoria County, a lag screw in the sixth telegraph pole north of milepost 211. (19.86 meters or 65.16 feet.)

33.—About 3.5 miles north of **Marianna**, Victoria County, a lag screw in the seventh telegraph pole south of milepost 213. (19.83 meters or 65.06 feet.)

34.—About 3 miles south of **Black Bayou**, Victoria County, a lag screw in the third telegraph pole south of milepost 214. (14.11 meters or 46.29 feet.)

35.—About 1 mile south of **Black Bayou**, Victoria County, a lag screw in the third telegraph pole north of milepost 216. (4.71 meters or 15.45 feet.)

36.—About 0.9 mile south of **Bloomington**, Victoria County, a lag screw in the eleventh telegraph pole north of milepost 218, one telegraph pole north of road crossing. (14.62 meters or 47.97 feet.)

Near **Bloomington**, Victoria County, crossing of branch line from Victoria to Port O'Connor, top of rail. (18.76 meters or 61.55 feet.)

At **Bloomington**, Victoria County, top of rail. (18.99 meters or 62.30 feet.)

37.—About 1 mile north of **Bloomington**, Victoria County, a lag screw in the first telegraph pole south of road crossing, nine telegraph poles north of milepost 220. (17.92 meters or 58.79 feet.)

38.—About 2 miles north of **Bloomington**, Victoria County, a lag screw in eighth telegraph pole north of milepost 221. (17.06 meters or 55.97 feet.)

39.—About 1 mile south of **Placedo**, Victoria County, a lag screw in the ninth telegraph pole north of milepost 223. (17.28 meters or 56.69 feet.)

Near **Placedo**, Victoria County, Southern Pacific Railroad crossing, top of rail. (16.85 meters or 55.28 feet.)

At **Placedo**, Victoria County, top of rail. (16.85 meters or 55.28 feet.)

Spur line to Port Lavaca—Southern Pacific Railroad.

40.—About 1.1 miles east of **Placedo**, Victoria County, a lag screw in the second telegraph pole from a road crossing. (15.09 meters or 49.51 feet.)

41.—About 2.1 miles east of **Placedo**, Victoria County, lag screw in first telegraph pole west of milepost 12. (14.27 meters or 46.82 feet.)

At **Zillah**, Victoria County, top of rail. (13.41 meters or 44.00 feet.)

42.—About 0.8 mile east of **Zillah**, Calhoun County, a lag screw in first telegraph pole east of milepost 10. (11.33 meters or 37.17 feet.)

43.—About 1.8 miles east of **Zillah**, Calhoun County, a lag screw in first telegraph pole east of milepost 9. (11.09 meters or 36.38 feet.)

At **Kamey**, Calhoun County, top of rail. (10.59 meters or 34.74 feet.)

44.—About 0.9 mile east of **Kamey**, Calhoun County, a lag screw in first telegraph pole east of milepost 7. (8.63 meters or 28.31 feet.)

At **Clarks**, Calhoun County, top of rail. (8.86 meters or 29.07 feet.)

45.—About 0.5 mile east of **Clarks**, Calhoun County, a lag screw in first pole east of milepost 5. (8.35 meters or 27.39 feet.)

46.—About 3 miles west of Port Lavaca, Calhoun County, a lag screw in the first telegraph pole west of milepost 3, 5 poles east of road crossing. (6.30 meters or 20.67 feet.)

47.—About 2 miles west of Port Lavaca, Calhoun County, a lag screw in the first telegraph pole west of milepost 2. (5.81 meters or 19.06 feet.)

48.—About 1 mile west of Port Lavaca, Calhoun County, a lag screw in the first telegraph pole east of milepost 1. (6.15 meters or 20.18 feet.)

At Port Lavaca, Calhoun County, top of rail. (6.16 meters or 20.21 feet.)

End of spur line.

St. Louis, Brownsville & Mexico Railway.

49.—About 1.7 miles south of Mitchell, Victoria County, a lag screw in the fourteenth telegraph pole north of milepost 226. (14.35 meters or 47.08 feet.)

50.—About 0.7 mile south of Mitchell, Victoria County, a lag screw in the fourteenth telegraph pole north of milepost 227. (13.50 meters or 44.29 feet.)

51.—About 3 miles south of Keeran, Victoria County, a lag screw in the third telegraph pole south of milepost 231, halfway between the fourth and fifth telegraph poles south of trestle No. 231.1. (11.57 meters or 37.96 feet.)

52.—About 1 mile south of Keeran, Victoria County, a lag screw in milepost 233. (11.32 meters or 37.14 feet.)

53.—About 1 mile south of Ben West, Jackson County, a lag screw in milepost 235. (7.27 meters or 23.85 feet.)

54.—About 2 miles south of Vanderbilt, Jackson County, a lag screw in the fifteenth telegraph pole south of milepost 239. (10.97 meters or 35.99 feet.)

At Vanderbilt, Jackson County, top of rail. (12.25 meters or 40.19 feet.)

55.—About 1 mile north of Vanderbilt, Jackson County, a lag screw in the first telegraph pole north of milepost 241. (9.31 meters or 30.54 feet.)

56.—About 3.5 miles north of Vanderbilt, Jackson County, a lag screw in the eleventh telegraph pole south of milepost 244. (5.67 meters or 18.60 feet.)

At Lolita, Jackson County, top of rail. (12.81 meters or 42.03 feet.)

57.—About 1.2 miles north of Lolita, Jackson County, a lag screw in the seventh telegraph pole north of milepost 246. (11.84 meters or 38.84 feet.)

58.—About 3 miles north of Lolita, Jackson County, a spike in milepost 248. (12.18 meters or 39.96 feet.)

59.—About 0.8 mile south of La Ward, Jackson County, a spike in milepost 249. (12.52 meters or 41.08 feet.)

At La Ward, Jackson County, top of rail. (13.19 meters or 43.27 feet.)

60.—About 1.3 miles north of La Ward, Jackson County, a spike in milepost 251. (11.02 meters or 36.15 feet.)

61.—About 2.3 miles north of La Ward, Jackson County, a spike in milepost 252. (9.96 meters or 32.68 feet.)

62.—About 4.4 miles north of La Ward, Jackson County, a spike in the fifth telegraph pole north of milepost 254. (9.81 meters or 32.18 feet.)

63.—About 5.6 miles north of La Ward, Jackson County, a spike in the eleventh telegraph pole north of milepost 255. (10.03 meters or 32.91 feet.)

64.—About 1 mile south of Francitas, Jackson County, a spike in the twelfth telegraph pole north of milepost 256. (10.75 meters or 35.27 feet.)

At Francitas, Jackson County, top of rail. (11.30 meters or 37.07 feet.)

65.—About 1.1 miles north of Francitas, Jackson County, a lag screw in the fifteenth telegraph pole north of milepost 258. (9.52 meters or 31.23 feet.)

66.—About 4 miles south of Blessing, Matagorda County, a lag screw in the thirteenth telegraph pole south of milepost 261. (8.62 meters or 28.28 feet.)

67.—About 3.3 miles south of Blessing, Matagorda County, a lag screw in the tenth telegraph pole south of milepost 261. (9.07 meters or 29.76 feet.)

68.—About 1.6 miles south of Blessing, Matagorda County, a lag screw on the first pole south of milepost 263. (12.02 meters or 39.44 feet.)

69.—About 0.6 mile south of Blessing, Matagorda County, a lag screw on milepost 264. (12.33 meters or 40.45 feet.)

At Blessing, Matagorda County, top of rail. (13.20 meters or 43.31 feet.)

Near Blessing, Matagorda County, Southern Pacific crossing, top of rail. (13.07 meters or 42.88 feet.)

70.—About 1.3 miles northeast of Blessing, Matagorda County, a lag screw in the first telegraph pole south of milepost 266. (11.85 meters or 38.88 feet.)

71.—About 1.6 miles south of Elmaton, Matagorda County, a lag screw in the first telegraph pole north of milepost 268. (10.34 meters or 33.92 feet.)

72.—About 0.9 mile south of **Elmaton**, Matagorda County, a lag screw in the sixth telegraph pole south of milepost 269. (10.07 meters or 33.04 feet.)

At **Elmaton**, Matagorda County, top of rail. (12.90 meters or 42.32 feet.)

73.—About 0.8 mile north of **Elmaton**, Matagorda County, a lag screw in the sixteenth telegraph pole south of milepost 271. (11.70 meters or 38.39 feet.)

74.—About 4.1 miles south of **Buckeye**, Matagorda County, a lag screw in the fifteenth telegraph pole south of milepost 272, halfway between the fifth and sixth telegraph poles south of wagon-road crossing. (11.22 meters or 36.81 feet.)

75.—About 2.4 miles south of **Buckeye**, Matagorda County, a lag screw in the sixth telegraph pole north of milepost 273. (11.17 meters or 36.65 feet.)

76.—About 1.2 miles south of **Buckeye**, Matagorda County, a lag screw in the fourth telegraph pole north of milepost 274. (11.01 meters or 36.12 feet.)

At **Buckeye**, Matagorda County, top of rail. (13.88 meters or 45.54 feet.)

77.—About 0.6 mile north of **Buckeye**, Matagorda County, a lag screw in the first telegraph pole south of milepost 276. (13.05 meters or 42.81 feet.)

78.—About 6.3 miles south of **Bay City**, Matagorda County, a lag screw in the sixteenth telegraph pole south of milepost 278. (12.33 meters or 40.45 feet.)

79.—About 5.6 miles south of **Bay City**, Matagorda County, a lag screw in the ninth telegraph pole north of milepost 278. (14.23 meters or 46.69 feet.)

80.—About 4.6 miles south of **Bay City**, Matagorda County, a lag screw in the sixth telegraph pole north of milepost 279. (13.72 meters or 45.01 feet.)

81.—About 2.5 miles south of **Bay City**, Matagorda County, a lag screw in the ninth telegraph pole north of milepost 281. (14.41 meters or 47.28 feet.)

82.—About 1 mile south of **Bay City**, Matagorda County, a lag screw in the first telegraph pole south of milepost 283. (15.18 meters or 49.64 feet.)

At **Bay City**, Matagorda County, top of rail. (15.76 meters or 51.71 feet.)

Near **Bay City**, Matagorda County, Gulf, Colorado & Santa Fe Railway crossing, top of rail. (15.76 meters or 51.71 feet.)

Spur line to Matagorda—Gulf, Colorado & Santa Fe Railway.

84.—About 0.4 mile east of **Bay City**, Matagorda County, a lag screw in the fourth telegraph pole east of milepost 69. (15.34 meters or 50.33 feet.)

85.—About 2.4 miles east of **Bay City**, Matagorda County, a lag screw in the second telegraph pole east of milepost 71. (13.11 meters or 43.01 feet.)

86.—About 3.3 miles east of **Bay City**, Matagorda County, a lag screw in the south side of the west abutment of railway trestle 71C, one meter south of the track near milepost 72. (13.40 meters or 43.96 feet.)

At **Culver**, Matagorda County, top of rail. (10.31 meters or 33.83 feet.)

87.—About 1.7 miles west of **Sims**, Matagorda County, a lag screw in the north end of the west abutment of railway trestle 74A, three telegraph poles east of milepost 74. (9.85 meters or 32.32 feet.)

88.—About 0.7 mile west of **Sims**, Matagorda County, a lag screw in the first telegraph pole east of milepost 75. (9.11 meters or 29.89 feet.)

At **Sims**, Matagorda County, top of rail. (9.54 meters or 31.30 feet.)

89.—About 1.3 miles east of **Sims**, Matagorda County, a lag screw in the first telegraph pole east of milepost 77. (9.94 meters or 32.61 feet.)

90.—At **Rymer**, Matagorda County, a lag screw in the third telegraph pole east of milepost 78. (10.62 meters or 34.84 feet.)

At **Rymer**, Matagorda County, top of rail. (10.83 meters or 35.53 feet.)

91.—About 0.8 mile west of **Wadsworth**, Matagorda County, a lag screw in the first telegraph pole west of milepost 79. (9.80 meters or 32.15 feet.)

At **Wadsworth**, Matagorda County, top of rail. (10.73 meters or 35.20 feet.)

92.—About 1.5 miles east of **Wadsworth**, Matagorda County, a lag screw in the first telegraph pole west of milepost 81. (8.47 meters or 27.79 feet.)

93.—About 2.5 miles east of **Wadsworth**, Matagorda County, a lag screw in the first telegraph pole west of milepost 82. (7.39 meters or 24.25 feet.)

At **Stewart**, Matagorda County, top of rail. (7.53 meters or 24.70 feet.)

94.—About 1.1 miles east of **Stewart**, Matagorda County, a lag screw in the fifth telegraph pole east of milepost 84. (4.74 meters or 15.55 feet.)

95.—About 1.9 miles east of **Stewart**, Matagorda County, a lag screw in the first telegraph pole east of milepost 85. (2.26 meters or 7.41 feet.)

At **Big Hill**, Matagorda County, top of rail. (4.17 meters or 13.68 feet.)

96.—About 3 miles west of **Matagorda**, Matagorda County, a lag screw in the fourth telegraph pole west of milepost 87. (3.37 meters or 11.06 feet.)

98.—About 0.9 mile west of **Matagorda**, Matagorda County, a lag screw in the first telegraph pole east of milepost 89. (2.60 meters or 8.53 feet.)
At **Matagorda**, Matagorda County, top of rail. (3.10 meters or 10.17 feet.)

End of spur line.

St. Louis, Brownsville & Mexico Railway.

100.—About 1 mile northeast of **Bay City**, Matagorda County, a lag screw in the third telegraph pole southwest of milepost 285. (15.53 meters or 50.95 feet.)

101.—About 3.2 miles northeast of **Bay City**, Matagorda County, a lag screw in telegraph pole No. 287. (12.50 meters or 41.01 feet.)

102.—About 4.2 miles northeast of **Bay City**, Matagorda County, a lag screw in milepost 288. (14.02 meters or 46.00 feet.)

103.—About 6.2 miles northeast of **Bay City**, Matagorda County, a lag screw in the second telegraph pole southwest of milepost 290. (10.99 meters or 36.06 feet.)

About 1 mile southwest of **Allenhurst**, Matagorda County, crossing of Southern Pacific line to Hawkinsville, top of rail. (12.91 meters or 42.36 feet.)

104.—About 0.9 mile southwest of **Allenhurst**, Matagorda County, a lag screw in the sixth telegraph pole southwest of milepost 291. (11.72 meters or 38.45 feet.)

At **Allenhurst**, Matagorda County, top of rail. (13.45 meters or 44.13 feet.)

105.—About 1.2 miles northeast of **Allenhurst**, Matagorda County, a lag screw in the sixth telegraph pole southwest of milepost 293. (10.91 meters or 35.79 feet.)

106.—About 1.1 miles southwest of **Hasima**, Matagorda County, a lag screw in milepost 295. (10.12 meters or 33.20 feet.)

At **Hasima**, Matagorda County, top of rail. (10.96 meters or 35.96 feet.)

107.—About 0.9 mile northeast of **Hasima**, Matagorda County, a lag screw in milepost 297. (8.77 meters or 28.77 feet.)

108.—About 1.9 miles southwest of **Sweeney**, Brazoria County, a lag screw in the second telegraph pole southwest of milepost 299. (10.32 meters or 33.86 feet.)

109.—About 1 mile southwest of **Sweeney**, Brazoria County, a lag screw in the sixth telegraph pole southwest of milepost 300. (9.51 meters or 31.20 feet.)

At **Sweeney**, Brazoria County, top of rail. (11.03 meters or 36.19 feet.)

110.—About 0.9 mile northeast of **Sweeney**, Brazoria County, a lag screw in the eighth telegraph pole southwest of milepost 302. (7.84 meters or 25.72 feet.)

111.—About 1 mile southwest of **San Bernardo**, Brazoria County, a lag screw in the twelfth telegraph pole southwest of milepost 303. (6.43 meters or 21.10 feet.)

At **San Bernardo**, Brazoria County, top of rail. (7.31 meters or 23.98 feet.)

112.—About 1.1 miles northeast of **San Bernardo**, Brazoria County, a spike in the seventh telegraph pole southwest of milepost 305. (4.97 meters or 16.31 feet.)

113.—About 1.4 miles southwest of **Brazoria**, Brazoria County, a lag screw in the twenty-first telegraph pole southwest of milepost 308. (5.21 meters or 17.09 feet.)

At **Brazoria**, Brazoria County, top of rail. (9.04 meters or 29.66 feet.)

114.—About 1.1 miles southwest of **Burke**, Brazoria County, a spike in the fifteenth telegraph pole northeast of milepost 310. (7.64 meters or 25.07 feet.)

115.—About 0.8 mile northeast of **Burke**, Brazoria County, a lag screw in a timber on the east side of the south abutment of railway trestle No. 312.5. (8.42 meters or 27.62 feet.)

116.—About 1.6 miles northeast of **Burke**, Brazoria County, a lag screw in the seventh telegraph pole northeast of milepost 313. (5.88 meters or 19.29 feet.)

117.—About 5 telegraph poles southwest of beginning of spur track at **Retrieve**, Brazoria County, a lag screw in the third telegraph pole northeast of milepost 315. (6.87 meters or 22.54 feet.)

At **Edmonds**, Brazoria County, top of rail. (9.22 meters or 30.25 feet.)

118.—About 1.1 miles northeast of **Edmonds**, Brazoria County, a lag screw in the thirteenth telegraph pole northeast of milepost 317. (7.34 meters or 24.08 feet.)

119.—About 1.3 miles southwest of **Angleton**, Brazoria County, a lag screw in the second telegraph pole west of wagon-road crossing, 13 poles southwest of milepost 320. (7.95 meters or 26.08 feet.)

Near **Angleton**, Brazoria County, Houston & Brazos Valley Railway crossing, top of rail. (9.47 meters or 31.07 feet.)

At **Angleton**, Brazoria County, top of rail. (8.97 meters or 29.43 feet.)

Spur line to Freeport—Houston & Brazos Valley Railway.

120.—About 1 mile southeast of the St. Louis, Brownsville & Mexico Railway and the Houston & Brazos Valley Railway crossing at **Angleton**, Brazoria County, a lag screw on the north end of the east timber abutment of railway trestle 22, one telegraph pole east of milepost 16. (7.70 meters or 25.26 feet.)

121.—About 2.8 miles southeast of the St. Louis, Brownsville & Mexico Railway, and the Houston & Brazos Valley Railway crossing at **Angleton**, Brazoria County, a lag screw in the sixth telegraph pole northwest of milepost 14. (6.19 meters or 20.31 feet.)

122.—About 5 poles southeast of **Rucks**, Brazoria County, a lag screw in the first telegraph pole northwest of milepost 12. (8.99 meters or 12.76 feet.)

123.—About 1 mile north of **Ross**, Brazoria County, a lag screw on the north side of east abutment of trestle 16, seven telegraph poles southeast of milepost 11. (5.27 meters or 17.29 feet.)

124.—About 0.5 mile southeast of **Ross**, Brazoria County, a lag screw in the north side of the east abutment of railway trestle 15. (5.83 meters or 19.13 feet.)

125.—About 1 mile northwest of **Clute**, Brazoria County, a lag screw in the sixth telegraph pole northwest of milepost 8. (4.51 meters or 14.80 feet.)

At **Clute**, Brazoria County, top of rail. (5.58 meters or 18.31 feet.)

126.—About 1.2 miles southeast of **Clute**, Brazoria County, a lag screw in the eleventh telegraph pole northwest of milepost 6. (2.16 meters or 7.09 feet.)

127.—About 4.2 miles northwest of **Freeport**, Brazoria County, a lag screw in the east abutment of the trestle, five telegraph poles northwest of milepost 4. (1.59 meters or 5.22 feet.)

128.—About 3.2 miles northwest of **Freeport**, Brazoria County, a lag screw in the sixth telegraph pole west of milepost 3. (1.15 meters or 3.77 feet.)

At **Velasco**, Brazoria County, top of rail. (3.21 meters or 10.53 feet.)

129.—About 2 miles northwest of **Freeport**, Brazoria County, a lag screw in the north side of the east abutment of railway trestle. (1.70 meters or 5.58 feet.)

At **Freeport**, Brazoria County, top of rail. (1.18 meters or 3.87 feet.)

End of spur line.

St. Louis, Brownsville & Mexico Railway.

130.—About 1.1 miles northeast of **Angleton**, Brazoria County, a lag screw in the first telegraph pole northeast of milepost 322. (7.57 meters or 24.84 feet.)

131.—About 3.4 miles northeast of **Angleton**, Brazoria County, a lag screw in the ninth telegraph pole northeast of milepost 324. (6.01 meters or 19.72 feet.)

132.—About 5 miles northeast of **Angleton**, Brazoria County, a lag screw in the third telegraph pole southwest of milepost 326. (6.38 meters or 20.93 feet.)

133.—About 0.9 mile southwest of **Danbury**, Brazoria County, a lag screw in the twelfth telegraph pole southwest of milepost 327. (6.27 meters or 20.57 feet.)

At **Danbury**, Brazoria County, top of rail. (7.96 meters or 26.12 feet.)

134.—About 0.9 mile northeast of **Danbury**, Brazoria County, a lag screw in the ninth telegraph pole northeast of milepost 328. (6.44 meters or 21.13 feet.)

135.—About 2.6 miles southwest of **Liverpool**, Brazoria County, a lag screw in the fifth telegraph pole southwest of milepost 331. (7.92 meters or 25.98 feet.)

136.—About 0.9 mile southwest of **Liverpool**, Brazoria County, a lag screw in the eighteenth telegraph pole northeast of milepost 332. (7.23 meters or 23.72 feet.)

At **Liverpool**, Brazoria County, top of rail. (7.10 meters or 23.29 feet.)

137.—About 1.2 miles northeast of **Liverpool**, Brazoria County, a spike in the tenth telegraph pole southwest of milepost 335. (6.08 meters or 19.95 feet.)

At **Chocolate Bayou**, Brazoria County, top of rail. (8.75 meters or 28.71 feet.)

138.—About 1.1 miles northeast of **Chocolate Bayou**, Brazoria County, a spike in the ninth telegraph pole southwest of milepost 337. (7.71 meters or 25.30 feet.)

139.—About 1.3 miles northeast of **Pyeatt**, Brazoria County, a lag screw in the first telegraph pole northeast of milepost 339. (8.83 meters or 28.97 feet.)

140.—About 2.1 miles southwest of **Algoa**, Brazoria County, a spike in the third telegraph pole northeast of milepost 341. (10.04 meters or 32.94 feet.)

141.—About 1.2 miles southwest of **Algoa**, Brazoria County, a lag screw in the first telegraph pole northeast of milepost 342. (11.77 meters or 38.62 feet.)

At **Algoa**, Brazoria County, top of rail. (11.71 meters or 38.42 feet.)

Gulf, Colorado & Santa Fe Railway.

142.—About 1 mile northwest of **Algoa**, Galveston County, a lag screw in a pile of trestle 25A, one telegraph pole northwest of milepost 25. (10.71 meters or 35.14 feet.)

143.—About 2.9 miles northwest of **Algoa**, Brazoria County, a lag screw in the second telegraph pole southeast of milepost 27. (12.17 meters or 39.93 feet.)

At **Alvin**, Brazoria County, top of rail. (14.39 meters or 47.21 feet.)

144.—About 0.9 mile north of **Alvin**, Brazoria County, a lag screw in the second telegraph pole south of milepost 1. (13.37 meters or 43.86 feet.)

145.—About 2.9 miles north of **Alvin**, Brazoria County, a lag screw in the second telegraph pole south of milepost 3. (13.61 meters or 44.65 feet.)

146.—About 0.6 mile north of **Hastings**, Brazoria County, a lag screw in the eleventh telegraph pole south of milepost 5. (13.48 meters or 44.23 feet.)

147.—About 3.7 miles south of **Pearland**, Brazoria County, a lag screw in the ninth telegraph pole north of milepost 6, west of the track. (14.41 meters or 47.28 feet.)

148.—About 2.9 miles south of **Pearland**, Brazoria County, a lag screw in the west end of the north abutment of railway trestle 7A. (14.86 meters or 48.75 feet.)

149.—About 1 mile south of **Pearland**, Brazoria County, a lag screw in the first telegraph pole west of milepost 9. (15.51 meters or 50.89 feet.)

At **Pearland**, Brazoria County, top of rail. (16.78 meters or 55.05 feet.)

150.—About 1 mile north of **Pearland**, Brazoria County, a lag screw in the second telegraph pole north of milepost 11, west of the track. (16.16 meters or 53.02 feet.)

151.—About 0.9 mile south of **Mykawa**, Harris County, a lag screw in the third telegraph pole north of milepost 13. (15.31 meters or 50.23 feet.)

At **Mykawa**, Harris County, top of rail. (17.58 meters or 57.68 feet.)

152.—About 1 mile north of **Mykawa**, Harris County, a lag screw in the first telegraph pole west of milepost 15. (15.00 meters or 49.21 feet.)

153.—About 2 miles north of **Mykawa**, Harris County, a lag screw in the first telegraph pole, west of the track, south of milepost 16. (12.89 meters or 42.29 feet.)

154.—About 6.6 miles south of **Union Station**, **Houston**, Harris County, a lag screw in the fifth telegraph pole south of milepost 18. (13.29 meters or 43.60 feet.)

155.—About 5.7 miles south of **Union Station**, **Houston**, Harris County, a lag screw, west of the track, in the eighth telegraph pole south of milepost 19. (13.10 meters or 42.98 feet.)

About 5 miles south of **Houston**, Harris County, Southern Pacific Railroad crossing, top of rail. (13.43 meters or 44.06 feet.)

156.—About 3.4 miles south of **Union Station**, **Houston**, Harris County, southeast head of bolt on block signal north base, 100 meters north of the water tank. (13.88 meters or 45.54 feet.)

Southern Pacific Railroad.

1.—At **Houston**, Harris County, seven telegraph poles east of milepost 360, the easternmost bolt on trestle 359F, south of the westbound track, and 3 meters (10 feet) east of wagon-road crossing. (16.08 meters or 52.76 feet.)

2.—At **Houston**, Harris County, at the intersection of the Southern Pacific Railroad and Cushing Avenue, Southern Pacific crossing No. 358C, the northeast corner of the concrete base of the block-signal tower. (15.82 meters or 51.90 feet.)

3a.—At **Englewood**, Harris County, the top of the center bolt of a 4 by 2 feet tank, 5 meters (16 feet) south of the highway, 20 meters (66 feet) north of the track, 3 telegraph poles west of milepost 358. (16.33 meters or 53.58 feet.)

At **Englewood**, Harris County, top of rail. (15.19 meters or 49.84 feet.)

Near **Englewood**, Harris County, Houston Belt & Terminal Railway crossing, top of rail. (15.05 meters or 49.38 feet.)

3.—About 1.1 miles east of the Houston Belt & Terminal Railway crossing, a lag screw in the tenth telegraph pole east of milepost 356, south of the track. (14.35 meters or 47.08 feet.)

4.—About 1.2 miles west of **Greens**, Harris County, a lag screw in the sixth telegraph pole east of milepost 355. (14.61 meters or 47.93 feet.)

At **Greens**, Harris County, top of rail. (14.72 meters or 48.20 feet.)

At **Fauna**, Harris County, top of rail. (15.15 meters or 49.70 feet.)

5.—About 0.6 mile east of **Fauna**, Harris County, a lag screw in the first telegraph pole east of milepost 349. (13.78 meters or 45.21 feet.)

6.—About 1.5 miles east of **Fauna**, Harris County, a lag screw in the first telegraph pole west of milepost 348. (14.04 meters or 46.06 feet.)

At **Sheldon**, Harris County, top of rail. (16.00 meters or 52.49 feet.)

7.—About 1.1 miles east of **Sheldon**, Harris County, a lag screw in the south side of the west abutment of the trestle over San Jacinto River. (9.54 meters or 31.30 feet.)

8.—About 0.8 mile west of **Crosby**, Harris County, a lag screw in telegraph pole 342. (12.70 meters or 41.67 feet.)

At **Crosby**, Harris County, top of rail. (14.00 meters or 48.88 feet.)

9.—About 1.1 miles east of **Crosby**, Harris County, a lag screw in the sixth telegraph pole east of milepost 340. (16.45 meters or 53.97 feet.)

10.—About 2.3 miles east of **Crosby**, Harris County, a lag screw in the eighth telegraph pole east of milepost 339. (17.85 meters or 58.56 feet.)

11.—About 4 miles east of **Crosby**, Harris County, a lag screw in the first telegraph pole west of milepost 337. (17.11 meters or 56.14 feet.)

12.—About 5.2 miles east of **Crosby**, Harris County, a lag screw in the seventh telegraph pole east of milepost 336. (17.52 meters or 57.48 feet.)

13.—About 0.8 mile east of **Walley**, Liberty County, a lag screw in the first telegraph pole east of milepost 333. (20.13 meters or 66.04 feet.)

At **Stilson**, Liberty County, top of rail. (22.10 meters or 72.51 feet.)

At **Dayton**, Liberty County, top of rail. (25.46 meters or 83.53 feet.)

14.—About 0.6 mile east of **Dayton**, Liberty County, a lag screw in the north end of the east abutment of trestle 326B. (21.42 meters or 70.28 feet.)

15.—About 2.5 miles east of **Dayton**, Liberty County, a lag screw in the twenty-fourth telegraph pole east of milepost 325, north of the track. (5.70 meters or 18.70 feet.)

16.—About 1 mile west of drawbridge over Trinity River, a lag screw in the thirteenth telegraph pole west of milepost 323, north of the track, 30 meters (98 feet) west of railroad trestle 323C. (6.75 meters or 22.15 feet.)

At **Liberty**, Liberty County, top of rail. (10.16 meters or 33.33 feet.)

17.—About 0.9 mile east of **Liberty**, Liberty County, a lag screw in the fifth telegraph pole east of milepost 320, two poles east of a road crossing. (12.78 meters or 41.93 feet.)

18.—About 0.5 mile west of **Ames**, Liberty County, a lag screw in the third telegraph pole west of milepost 318. (22.60 meters or 74.15 feet.)

At **Ames**, Liberty County, top of rail. (23.26 meters or 76.31 feet.)

19.—About 1.3 miles east of **Ames**, Liberty County, a lag screw in the twenty-sixth telegraph pole east of milepost 317. (21.68 meters or 71.13 feet.)

20.—About 1.5 miles west of **Raywood**, Liberty County, a lag screw in the sixteenth telegraph pole east of milepost 315. (20.53 meters or 67.36 feet.)

At **Raywood**, Liberty County, top of rail. (20.31 meters or 66.63 feet.)

21.—About 1.1 miles east of **Raywood**, Liberty County, a lag screw in the south end of the east abutment of railroad trestle No. 311D, five telegraph poles east of milepost 312. (18.78 meters or 61.61 feet.)

21A.—About 1.8 miles west of **Devers**, Liberty County, a bolt in the north side of the east abutment of railroad trestle 310A, 2 telegraph poles west of milepost 310 and 1 foot below the track. (18.30 meters or 60.04 feet.)

22.—About 1 mile west of **Devers**, Liberty County, a lag screw in the twelfth telegraph pole west of milepost 300. (17.60 meters or 57.74 feet.)

At **Devers**, Liberty County, top of rail. (18.46 meters or 60.56 feet.)

23.—About 1.3 miles east of **Devers**, Liberty County, a lag screw in the north end of the east abutment of railroad trestle 307A. (17.38 meters or 57.02 feet.)

24.—About 2.3 miles east of **Devers**, Liberty County, a lag screw in the fourth telegraph pole west of milepost 306. (17.20 meters or 56.43 feet.)

25.—About 1 mile west of **Felicia**, Liberty County, a lag screw in the seventh telegraph pole west of milepost 304. (15.16 meters or 49.74 feet.)

At **Felicia**, Liberty County, top of rail. (14.99 meters or 49.18 feet.)

26.—About 1 mile east of **Felicia**, Liberty County, a lag screw in the eighth telegraph pole west of milepost 302. (14.10 meters or 46.26 feet.)

27.—About 3 miles east of **Felicia**, Liberty County, a bolt in the north end of the east abutment of railroad trestle 300A, two telegraph poles west of milepost 300. (13.94 meters or 45.73 feet.)

28.—About 0.9 mile west of **Nome**, Jefferson County, a lag screw in the third telegraph pole west of milepost 299. (12.51 meters or 41.04 feet.)

At **Nome**, Jefferson County, top of rail. (13.65 meters or 44.78 feet.)

29.—About 1.1 miles east of **Nome**, Jefferson County, a lag screw in the second telegraph pole west of milepost 297; five poles east of road crossing. (13.49 meters or 44.26 feet.)

30.—About 2 miles west of **China**, Jefferson County, a lag screw in the third telegraph pole east of milepost 295. (12.46 meters or 40.88 feet.)

31.—About 1.1 miles west of **China**, Jefferson County, a lag screw in the third telegraph pole east of milepost 294. (12.80 meters or 41.99 feet.)

At **China**, Jefferson County, top of rail. (13.25 meters or 43.47 feet.)

32.—About 1 mile east of **China**, Jefferson County, a lag screw in the ninth telegraph pole east of milepost 292, north of the track. (10.66 meters or 34.97 feet.)

33.—About 1.9 miles east of **China**, Jefferson County, a lag screw in the third telegraph pole east of milepost 291, north of the track. (9.84 meters or 32.28 feet.)

34.—About 0.6 mile west of **Pine Island**, Jefferson County, a lag screw in the twelfth telegraph pole west of milepost 289, north of the track. (9.90 meters or 32.78 feet.)

At **Pine Island**, Jefferson County, top of rail. (10.56 meters or 34.65 feet.)

35.—About 1.5 miles east of **Pine Island**, Jefferson County, a lag screw in the fourth telegraph pole west of milepost 287, north of the track. (11.08 meters or 36.35 feet.)

36.—About 1.3 miles west of **Amelia**, Jefferson County, a lag screw in the fifth telegraph pole west of milepost 285, north of the track. (10.05 meters or 32.97 feet.)

At **Amelia**, Jefferson County, top of rail. (9.01 meters or 29.56 feet.)

37.—About 0.5 mile east of **Amelia**, Jefferson County, the northwest corner of the concrete base of a block signal south of the track. (8.60 meters or 28.22 feet.)

38.—About 1.5 miles east of **Amelia**, Jefferson County, a lag screw in the fifteenth telegraph pole west of milepost 282, 20 meters (66 feet) south of the sign post "1 mile to Amelia." (6.56 meters or 21.52 feet.)

39.—About 2.9 miles west of **Beaumont**, Jefferson County, the southeast corner of the iron base of block signal No. 281.5. (6.37 meters or 20.90 feet.)

40.—About 2.3 miles west of **Beaumont**, Jefferson County, a spike in the south end of the lowest timber of the east abutment of trestle 280G, six poles east of milepost 281. (5.40 meters or 17.72 feet.)

41.—About 0.5 mile west of Southern Pacific station, **Beaumont**, Jefferson County, the northeast bolt on the concrete base of the bell signal at a street crossing tower. (6.68 meters or 21.92 feet.)

At **Beaumont**, Jefferson County, top of rail. (6.84 meters or 22.44 feet.)

Spur line to Sabine.—Texas & New Orleans Railroad.

42.—About 1.3 miles south of the East Texas Railroad crossing, a spike in milepost 29. (5.80 meters or 19.03 feet.)

43.—About 1.3 miles north of **Guffey**, Jefferson County, a lag screw in the eighth telegraph pole north of milepost 27. (5.47 meters or 17.95 feet.)

44.—About 0.8 mile north of **Guffey**, Jefferson County, a lag screw in the eighth telegraph pole north of milepost 26, 10 meters south of an irrigation canal. (5.43 meters or 17.81 feet.)

- At **Guffey**, Jefferson County, top of rail. (5.81 meters or 19.06 feet.)
- 45.—About 0.9 mile north of **Herbert**, Jefferson County, a lag screw in the seventh telegraph pole south of milepost 24. (5.41 meters or 17.75 feet.)
- At **Herbert**, Jefferson County, top of rail. (6.57 meters or 21.56 feet.)
- 46.—About 0.8 mile south of **Herbert**, Jefferson County, a lag screw in the sixth telegraph pole north of milepost 22. (4.97 meters or 16.31 feet.)
- 47.—About 0.8 mile north of **Viterbo**, Jefferson County, a lag screw in the first telegraph pole northeast of a wagon-road crossing 21A. (4.72 meters or 15.49 feet.)
- At **Viterbo**, Jefferson County, top of rail. (5.15 meters or 16.90 feet.)
- 48.—About 0.6 mile south of **Viterbo**, Jefferson County, a lag screw in the west end of the south abutment of railroad trestle No. 19D, 1 telegraph pole south of milepost 20. (3.65 meters or 11.98 feet.)
- 49.—About 0.9 mile north of **Delphine**, Jefferson County, a lag screw in the fourth telegraph pole north of milepost 19. (3.01 meters or 9.88 feet.)
- At **Delphine**, Jefferson County, top of rail. (3.45 meters or 11.32 feet.)
- 50.—About 1 mile south of **Delphine**, Jefferson County, a lag screw in the seventh telegraph pole north of milepost 17. (1.87 meters or 6.14 feet.)
- At **Elvista**, Jefferson County, top of rail. (2.42 meters or 7.94 feet.)
- 51.—About 0.6 mile south of **Elvista**, Jefferson County, a lag screw in the ninth telegraph pole north of milepost 15. (0.71 meter or 2.33 feet.)
- 52.—About 1.6 miles south of **Elvista**, Jefferson County, a spike in the whistle board, 22 telegraph poles south of milepost 15. (1.34 meters or 4.40 feet.)
- 53.—About 0.8 mile north of **West Port Arthur**, Jefferson County, a lag screw in the south abutment at the west end of trestle 12C. (1.30 meters or 4.27 feet.)
- At **West Port Arthur**, Jefferson County, top of rail. (2.74 meters or 8.99 feet.)
- 54.—About 0.9 mile south of **West Port Arthur**, Jefferson County, a lag screw in the tenth telegraph pole north of milepost 11. (1.82 meters or 5.97 feet.)
- 55.—About 1.9 miles south of **West Port Arthur**, Jefferson County, a lag screw in the fifth telegraph pole north of trestle 10A. (1.69 meters or 5.54 feet.)
- 56.—About 0.9 mile north of **Round Lake**, Jefferson County, a lag screw in the first telegraph pole north of trestle 9A. (0.88 meter or 2.89 feet.)
- 57.—About 1 mile south of **Round Lake**, Jefferson County, a lag screw in the sixteenth telegraph pole south of milepost 8. (0.93 meter or 3.05 feet.)
- At **Keith Lake**, Jefferson County, top of rail. (1.70 meters or 5.58 feet.)
- 58.—About 1 mile south of **Keith Lake**, Jefferson County, a lag screw in the tenth telegraph pole south of milepost 6. (1.02 meters or 3.35 feet.)
- 59.—About 2.1 miles north of **Sabine Pass**, Jefferson County, in the west end of the north abutment of trestle 4B, between the fifteenth and sixteenth telegraph poles south of milepost 5. (1.11 meters or 3.64 feet.)
- 59a.—About 1 mile north of **Sabine Pass**, Jefferson County, a spike in the eighteenth telegraph pole south of milepost 14. (0.63 meter or 2.07 feet.)
- At **Sabine Pass**, Jefferson County, top of rail. (1.85 meters or 6.07 feet.)
- 60.—About 1 mile south of **Sabine Pass**, Jefferson County, a lag screw in the fourteenth telegraph pole south of milepost 2, 30 meters (98 feet) south of cattle gap 1D. (1.15 meters or 3.77 feet.)
- At **Sabine**, Jefferson County, top of rail. (1.80 meters or 5.91 feet.)

End of spur line.

Southern Pacific Railroad.

- East of **Beaumont**, Jefferson County, Kansas City Southern Railway crossing, top of rail. (4.46 meters or 14.63 feet.)
- 61.—About 0.9 mile west of **Fletcher**, Orange County, and 1 mile east of the Texas & New Orleans Railroad bridge over the Neches River, a lag screw in the first telegraph pole east of the Kansas City Southern Railway crossing, one pole east of milepost 277. (1.98 meters or 6.50 feet.)
- At **Fletcher**, Orange County, top of rail. (4.27 meters or 14.01 feet.)
- 62.—About 1 mile east of **Fletcher**, Orange County, a lag screw in telegraph pole 275. (2.75 meters or 9.02 feet.)
- 63.—About 2 miles east of **Fletcher**, Orange County, a lag screw in the second telegraph pole east of milepost 274. (5.63 meters or 18.57 feet.)
- At **Diana**, Orange County, top of rail. (5.93 meters or 19.46 feet.)

- 64.—About 0.3 mile west of **Connell**, Orange County, a lag screw in the fourth telegraph pole east of milepost 272. (5.01 meters or 16.44 feet.)
At **Connell**, Orange County, top of rail. (5.99 meters or 19.65 feet.)
- 65.—About 1 mile east of **Connell**, Orange County, a lag screw in the seventh telegraph pole east of milepost 271. (6.09 meters or 19.98 feet.)
- 66.—About 1 mile west of **Terry**, Orange County, a lag screw in the seventh telegraph pole west of milepost 269. (5.65 meters or 18.54 feet.)
At **Terry**, Orange County, top of rail. (5.49 meters or 18.01 feet.)
- 67.—About 1.1 miles east of **Terry**, Orange County, the top of a bolt in the south end of the east abutment of trestle 266C, 1 telegraph pole east of milepost 267. (5.02 meters or 16.47 feet.)
At **Oilla**, Orange County, top of rail. (4.35 meters or 14.27 feet.)
- 68.—About 0.6 mile east of **Oilla**, Orange County, a lag screw in milepost 265. (4.73 meters or 15.52 feet.)
- 69.—About 1.6 miles east of **Oilla**, Orange County, the northwest corner of the concrete base of block signal 264.0, 1 pole west of milepost 264. (4.76 meters or 15.62 feet.)
At **Tulane**, Orange County, top of rail. (3.59 meters or 11.78 feet.)
- 70.—About 1.9 miles east of **Tulane**, Orange County, a lag screw in the fifth telegraph pole east of milepost 261, north of the track. (3.72 meters or 12.20 feet.)
- 71.—About 2.6 miles east of **Tulane**, Orange County, a lag screw in the fourth telegraph pole west of milepost 260. (3.57 meters or 11.71 feet.)
About 2.8 miles west of **Orange**, Orange County, Orange & Northwestern Railroad crossing, top of rail. (5.57 meters or 18.27 feet.)
- 72.—About 1.8 miles west of **Orange**, Orange County, a lag screw in the fifteenth telegraph pole west of milepost 258, north of the track. (4.12 meters or 13.52 feet.)
At **Orange**, Orange County, top of rail. (3.24 meters or 10.63 feet.)
- 73.—About 1.1 miles east of **Orange**, Orange County, a lag screw in the twenty-third telegraph pole east of milepost 256. (2.47 meters or 8.10 feet.)
- 74.—About 1.9 miles east of **Orange**, Orange County, a lag screw in the south end of the east abutment of trestle 254B, 8 poles east of milepost 255. (3.71 meters or 12.17 feet.)
- 75.—About 1.9 miles west of **Echo**, Orange County, a lag screw in the twelfth telegraph pole west of milepost 253. (4.45 meters or 14.60 feet.)
- 76.—About 0.8 mile west of **Echo**, Orange County, a lag screw in the seventh telegraph pole west of milepost 252. (4.69 meters or 15.39 feet.)
At **Echo**, Orange County, top of rail. (5.08 meters or 16.67 feet.)
- 77.—About 0.5 mile west of the railroad bridge over the **Sabine River**, Orange County, a lag screw in the first telegraph pole west of a spur track to an oil tank. (3.66 meters or 12.01 feet.)

LINE XVII, HARLINGEN TO EAGLE PASS, TEXAS.

TEMPORARY BENCH MARKS.

St. Louis, Brownsville & Mexico Railway.

- 1.—About 1.2 miles west of **Harlingen**, Cameron County, a spike in the sixth telephone pole west of milepost 1. (12.76 meters or 41.86 feet.)
- 2.—About 2 miles east of **Leeland**, Cameron County, a spike in a telephone pole, the first east of a road crossing and the tenth west of milepost 2. (13.35 meters or 43.80 feet.)
- 3.—About 0.7 mile east of **Leeland**, Cameron County, a spike in the fourth telephone pole west of a road crossing. (14.79 meters or 48.52 feet.)
- 4.—At **Leeland**, Cameron County, the corner of the top of the brick in the ledge of the north brick pillar at the northwest entrance to the **Leeland Community House**. (15.46 meters or 50.72 feet.)
- 5.—About 1.1 miles west of **Leeland**, Cameron County, a spike in the fourth telephone pole west of the **Leeland station mile board**. (16.72 meters or 54.86 feet.)
- 6.—About 1.3 miles east of **La Feria**, Cameron County, the nut on a bolt in a whistle post almost opposite milepost 7. (17.38 meters or 57.02 feet.)
- 7.—About 1 mile west of **La Feria**, Cameron County, the nut on a bolt in a railroad-crossing sign. (19.19 meters or 62.96 feet.)

8.—About 100 meters (328 feet) west of the station signboard for **Bixby**, Cameron County, the northwest spike of the switch stand at the Bixby switch. (18.82 meters or 61.75 feet.)

9.—About 1.8 miles east of **Mercedes**, Hidalgo County, a spike in the fourth telephone pole west of milepost 12. (18.66 meters or 61.22 feet.)

10.—About 0.6 mile west of **Mercedes**, Hidalgo County, a nail in the top of a white section post 15 telephone poles east of milepost 15. (20.01 meters or 65.65 feet.)

11.—About 1.5 miles west of **Mercedes**, Hidalgo County, the head of an end bolt on the northwest corner of the outer edge of trestle No. 15.3. (19.71 meters or 64.67 feet.)

12.—About 0.7 mile east of **Llano Grande**, Hidalgo County, a spike in the eighth telephone pole west of milepost 16. (20.18 meters or 66.21 feet.)

13.—About 0.8 mile east of **Llano Grande**, Hidalgo County, a spike in the tenth telephone pole east of milepost 18. (23.62 meters or 77.49 feet.)

14.—About 1.5 miles west of **Llano Grande**, Hidalgo County, a spike in the twenty-third telephone pole west of milepost 18. (22.50 meters or 73.82 feet.)

15.—About 2.2 miles west of **Llano Grande**, Hidalgo County, a spike in the fifth telephone pole west of milepost 19. (25.12 meters or 82.41 feet.)

16.—About 3.1 miles west of **Llano Grande**, Hidalgo County, a spike in the fifteenth telephone pole west of milepost 20, 3 miles east of a road crossing. (25.05 meters or 82.18 feet.)

17.—About 4.3 miles west of **Llano Grande**, Hidalgo County, a spike in the eighth telephone pole west of milepost 21, 1 pole west of a road crossing. (26.74 meters or 87.73 feet.)

18.—About 5.1 miles west of **Llano Grande**, Hidalgo County, a spike in the second telephone pole west of milepost 22, 1 pole west of a road crossing. (26.42 meters or 86.68 feet.)

19.—About 1 mile west of **Donna**, Hidalgo County, a spike in the seventh telephone pole west of milepost 24. (28.99 meters or 95.11 feet.)

20.—About 3 miles west of **Donna**, Hidalgo County, a spike in the eighth telephone pole east of milepost 26. (28.99 meters or 95.11 feet.)

21.—About 3.5 miles west of **Donna**, Hidalgo County, a spike in the thirteenth telephone pole west of milepost 26. (29.77 meters or 97.67 feet.)

22.—About 1 mile east of **San Juan**, Hidalgo County, a spike in the second telephone pole east of the signpost "1 mile to station." (32.27 meters or 105.87 feet.)

23.—About 0.4 mile west of **San Juan**, Hidalgo County, a spike in the fifth telephone pole east of milepost 30. (33.50 meters or 109.91 feet.)

24.—About 1 mile west of **San Juan**, Hidalgo County, a spike in the second telephone pole south of the signpost "1 mile to station." (34.47 meters or 113.09 feet.)

25.—About 1 mile east of **McAllen**, Hidalgo County, a spike in the northwest corner of the switch stand at a spur track. (36.41 meters or 119.46 feet.)

26.—About 0.8 mile west of **McAllen**, Hidalgo County, a spike in the northwest corner of a switch stand. (39.49 meters or 129.56 feet.)

27.—About 2.5 miles west of **McAllen**, Hidalgo County, the top of the tap to the lower bolt of a whistle post. (40.66 meters or 133.40 feet.)

28.—At **Sharyland**, Hidalgo County, a spike in the northwest corner of the switch stand at the west end of a side track. (40.73 meters or 133.63 feet.)

29.—About 1.4 miles east of **Mission**, Hidalgo County, a spike in the eleventh telephone pole west of milepost 38. (40.73 meters or 133.63 feet.)

30.—About 1.3 miles west of **Mission**, Hidalgo County, the top of the tap of the lower bolt in the base of a whistle post. (42.71 meters or 140.12 feet.)

31.—About 3 miles west of **Mission**, Hidalgo County, a spike in the sixth telephone pole west of milepost 43. (42.44 meters or 139.24 feet.)

32.—About 4 miles west of **Mission**, Hidalgo County, a spike in the first telephone pole west of milepost 44. (37.61 meters or 123.39 feet.)

33.—About 5 miles west of **Mission**, Hidalgo County, a spike in the ninth telephone pole east of milepost 45. (41.37 meters or 135.73 feet.)

34.—About 5.5 miles west of **Mission**, Hidalgo County, a spike in the eleventh telephone pole west of milepost 45. (38.33 meters or 125.75 feet.)

35.—About 6.6 miles west of **Mission**, Hidalgo County, a spike in the twenty-third telephone pole west of milepost 46. (38.07 meters or 124.90 feet.)

36.—About 1.25 miles west of **Closner**, Hidalgo County, a spike in the second telephone pole east of milepost 48. (37.98 meters or 124.61 feet.)

37.—About 1.5 miles west of **Closner**, Hidalgo County, a spike in the seventh telephone pole west of milepost 48. (37.75 meters or 123.85 feet.)

38.—About 3 miles west of **Closner**, Hidalgo County, a spike in the tenth telephone pole east of milepost 50. (37.90 meters or 124.34 feet.)

39.—About 1 mile east of **Havana Village**, Hidalgo County, a spike in the fifteenth telephone pole west of milepost 50. (37.92 meters or 124.41 feet.)

40.—About 1.2 miles east of **Samfordyce**, Hidalgo County, the second bolt from the west corner of railroad trestle No. 52.0. (42.33 meters or 138.88 feet.)

41.—About 2.5 miles west of **Samfordyce**, Hidalgo County, a spike in the twenty-first telephone pole east of a schoolhouse on a hill on the south side of where the Military Road passes between two hills. (41.84 meters or 137.27 feet.)

42.—About 3.3 miles west of **Samfordyce**, Hidalgo County, a spike in a telephone pole on the south side of the Military Road opposite a schoolhouse on a hill. (47.82 meters or 156.89 feet.)

43.—About 4.0 miles west of **Samfordyce**, Hidalgo County, a spike in a telephone pole on the north side of the Military Road in the yard of a ranch house at the foot of a very steep hill. (42.84 meters or 140.55 feet.)

44.—About 4.5 miles west of **Samfordyce**, Hidalgo County, a spike in a telephone pole on the south side of the Military Road where the line crosses the road. (55.12 meters or 180.84 feet.)

45.—About 5.8 miles west of **Samfordyce**, Hidalgo County, a spike in the second telephone pole on the north side of the Military Road from where the telephone line begins to follow the road. (41.59 meters or 136.45 feet.)

46.—About 8.8 miles west of **Samfordyce**, Hidalgo County, a spike in the fourteenth telephone pole west of a road leading to the river. (42.78 meters or 140.35 feet.)

47.—About 9.8 miles west of **Samfordyce**, Hidalgo County, a spike in a mesquite tree which overhangs the road on the right-hand side, 14 telephone poles west of where the **Samfordyce-Riogrande City Road** divides, on the north side of a gravel road. (46.60 meters or 152.89 feet.)

48.—About 11.7 miles west of **Samfordyce**, Hidalgo County, a spike in the eighth telephone pole west of where the old and the new **Samfordyce-Riogrande roads** join. (46.22 meters or 151.64 feet.)

49.—About 1 mile west of **Garcias**, Starr County, a spike in a stump on the north side of the road opposite the fifth telephone pole west of a road leading to the **Canasta ranch**. (48.56 meters or 159.32 feet.)

50.—About 3 miles west of **Garcias**, Starr County, and 1 mile west of **Garcias ranch**; a nail in the top of a 2 by 4 inch hub on the south side of the Military Road, 4 meters (13 feet) east of an iron telephone pole. (44.40 meters or 145.96 feet.)

51.—About 5.0 miles east of **Riogrande**, Starr County, a spike in a telephone pole on the south side of the Military Road, 1 mile west of the **Puerta ranch**. (46.76 meters or 153.41 feet.)

52.—About 2.0 miles west of **Riogrande**, Starr County, a spike in the sign-board which reads "1 mile to **Gating Post**," on the north side of the Military Road. (48.96 meters or 160.63 feet.)

53.—About 1 mile west of **Riogrande**, Starr County, a spike in a telephone pole on the south side of the road. (50.57 meters or 165.91 feet.)

54.—About 4.9 miles west of **Riogrande**, Starr County, a nail in the top of a 2 by 4 inch hub in the southwest angle of the road leading to the river. (54.21 meters or 177.85 feet.)

55.—About 6 miles west of **Riogrande**, Starr County, a nail in the top of a 2 by 4 inch hub on the south side of the Military Road, 3 meters east of the second telephone pole east of the telephone pole on which is the sign "6 miles to **Riogrande City Garage**." (55.61 meters or 182.45 feet.)

56.—About 6.9 miles west of **Riogrande**, Starr County, a nail in the top of a 2 by 4 inch hub on the south side of the road, 2 meters east of the telephone pole on which is the sign "7 miles to **Riogrande City Garage**." (54.42 meters or 178.54 feet.)

57.—About 10 miles west of **Riogrande**, Starr County, a nail in the top of a 2 by 4 inch hub at the corner of the fence on the north side of the Military Road, on the first ranch west of the **Garceno ranch**. (54.89 meters or 180.08 feet.)

58.—About 11 miles west of **Riogrande**, Starr County, a nail in a 2 by 4 inch hub, 200 meters (656 feet) west of a wooden bridge and 4 meters south of the Military Road. (55.00 meters or 183.40 feet.)

59.—About 1.2 miles east of **Roma**, Starr County, a nail in a 2 by 4 inch hub opposite the cemetery and on the north side of the Military Road, 2 meters west of a telephone pole. (57.72 meters or 189.37 feet.)

60.—About 0.4 mile east of **Roma**, Starr County, a nail in a 2 by 4 inch hub, 4 meters north of the Military Road and opposite the sign "14 miles to Rio-grande (City Garage)." (59.00 meters or 193.57 feet.)

61.—About 1.1 miles west of **Roma**, Starr County, a nail in a 2 by 4 inch hub, 4 meters south of the Military Road and 70 meters (230 feet) west of a braced telephone pole. (78.98 meters or 259.12 feet.)

62.—About 2.1 miles west of **Roma**, Starr County, a nail in a 2 by 4 inch hub, 5 meters south of the Military Road and 100 meters (328 feet) west of a braced telephone pole. (100.15 meters or 328.58 feet.)

63.—About 4.3 miles west of **Roma**, Starr County, a nail in a 2 by 4 inch hub, 6 meters south of the Military Road and 250 meters (820 feet) east of a braced telephone pole. (115.16 meters or 377.82 feet.)

64.—About 5.4 miles west of **Roma**, Starr County, a nail in a 2 by 4 inch hub, 8 meters south of the Military Road, opposite a braced telephone pole. (100.53 meters or 329.82 feet.)

65.—About 6.6 miles west of **Roma**, Starr County, a nail in a 2 by 4 inch hub, 125 meters (410 feet) east of a braced telephone pole, and 5 meters south of the Military Road. (82.69 meters or 271.29 feet.)

66.—About 7.6 miles west of **Roma**, Starr County, a nail in a 2 by 4 inch hub, 4 meters south of the Military Road, and 10 meters (33 feet) west of the west bank of the arroyo "Las Minatas." (73.90 meters or 242.45 feet.)

67.—About 8.6 miles west of **Roma**, Starr County, a nail in a 2 by 4 inch hub, 6 meters south of the Military Road and 100 meters (328 feet) east of a braced telephone pole. (94.85 meters or 311.10 feet.)

68.—About 10.5 miles west of **Roma**, Starr County, a nail in a round hub, 6 meters south of the Military Road, 2 meters east of a braced telephone pole at the point where a road leads to Salineno. (91.79 meters or 301.15 feet.)

69.—About 11.5 miles west of **Roma**, Starr County, a nail in a round hub, 10 meters (33 feet) south of the Military Road and 2 meters west of a braced telephone pole where the Military Road turns sharply to the north before going down a series of steep hills. (91.38 meters or 299.80 feet.)

70.—About 12.0 miles west of **Roma**, Starr County, a nail in a round hub, 3 meters south of the Military Road, 1 meter west of a telephone pole, and 20 meters (66 feet) west of the first arroyo west of Salineno. (71.03 meters or 233.04 feet.)

71.—About 13.0 miles west of **Roma**, Starr County, a nail in a round hub, 3 meters south of the Military Road, and 1 meter east of the first telephone pole south of the road after the telephone wire crosses the road. (83.52 meters or 274.02 feet.)

72.—About 13.8 miles west of **Roma**, Starr County, a nail in a round hub, 1 meter east of a braced telephone pole. (102.20 meters or 335.30 feet.)

73.—About 16 miles west of **Roma**, Starr County, a nail in a round hub on top of a hill, 1 meter south of a fence on the south side of the Military Road. (118.60 meters or 389.11 feet.)

74.—About 17 miles west of **Roma**, Starr County, a nail in a round hub, 1 meter south of the Military Road, and 200 meters (656 feet) east of the line between Starr and Zapata Counties. (88.01 meters or 288.75 feet.)

75.—About 18 miles west of **Roma**, Starr County, a nail in a round hub, 2 meters south of the Military Road, and opposite the pole from which the telephone wire branches off to Rumireno, Tex. (80.34 meters or 263.58 feet.)

76.—About 19.5 miles west of **Roma**, Starr County, a nail in a round hub 2 meters north of the Military Road, and 0.6 mile west of the corner of the fence around the pasture owned by T. C. McDermott. (104.51 meters or 342.88 feet.)

77.—About 20.5 miles west of **Roma**, Starr County, a nail in a round hub, 1 meter north of the Military Road in a little run between two knolls. (107.78 meters or 353.61 feet.)

78.—About 3.8 miles east of **Lopeno**, Zapata County, a nail in a round hub, 2 meters north of the Military Road, and 50 meters (164 feet) west of a braced telephone pole. (101.01 meters or 331.40 feet.)

79.—About 1.2 miles east of **Lopeno**, Zapata County, a nail in a stump, 5 meters south of the Military Road, and 30 meters (98 feet) west of a road which branches off to Lopeno. (81.20 meters or 266.40 feet.)

80.—About 1.3 miles west of **Lopeno**, Zapata County, a nail in a round hub, 3 meters south of the Military Road, and 60 meters (197 feet) west of an arroyo. (75.98 meters or 249.28 feet.)

81.—About 1 mile west of **Guadeloupe**, Zapata County, a nail in a round hub, 3 meters south of the Military Road, and 15 meters (49 feet) east of a road. (82.18 meters or 269.62 feet.)

82.—About 2 miles west of **Guadeloupe**, Zapata County, a nail in a round hub, 6 meters south of the Military Road, and 200 meters (656 feet) east of the corner of the fence. (80.85 meters or 265.26 feet.)

83.—About 3 miles west of **Guadeloupe**, Zapata County, a nail in a round hub, 3 meters south of the Military Road, 10 meters (33 feet) east of a telephone pole. (82.02 meters or 269.09 feet.)

84.—About 4.1 miles west of **Guadeloupe**, Zapata County, a nail in a round hub, 3 meters north of the Military Road, and 200 meters (656 feet) west of a road leading to a ranch. (79.56 meters or 261.02 feet.)

85.—About 10 miles east of **Zapata**, Zapata County, a nail in a hub, 8 meters south of the Military Road, and 40 meters west of the corner of a fence. (81.51 meters or 267.42 feet.)

86.—About 8.8 miles east of **Zapata**, Zapata County, a nail in a hub, 3 meters south of the Military Road, and 50 meters (164 feet) west of the west bank of a deep arroyo. (81.58 meters or 267.65 feet.)

87.—About 7.7 miles east of **Zapata**, Zapata County, a nail in a hub, 2 meters south of the Military Road, and 40 meters (131 feet) west of the more western of two arroyos close together. (82.49 meters or 270.64 feet.)

88.—About 5.5 miles east of **Zapata**, Zapata County, a nail in a hub, 3 meters south of the Military Road, and 200 meters (656 feet) east of an arroyo. (85.24 meters or 279.66 feet.)

89.—About 4.4 miles east of **Zapata**, Zapata County, a nail in a hub, 30 meters (98 feet) south of the Military Road, and 100 meters (328 feet) east of where the Military Road crosses Arroyo Vellaño. (79.76 meters or 261.68 feet.)

90.—About 3.9 miles east of **Zapata**, Zapata County, a nail in a hub, 30 meters (98 feet) west of Arroyo Vellaño, and 3 meters (7 feet) south of the Military Road. (82.89 meters or 271.95 feet.)

91.—About 2.7 miles east of **Zapata**, Zapata County, a nail in a hub, 5 meters north of the Military Road, on a mound 25 meters (82 feet) east of a gate. (83.68 meters or 307.35 feet.)

92.—About 1.5 miles east of **Zapata**, Zapata County, a nail in a hub, 3 meters south of the Military Road on a ridge along which the road passes. (112.33 meters or 368.54 feet.)

93.—About 1.1 mile west of **Zapata**, Zapata County, a nail in a hub, 5 meters south of the Military Road, 250 meters (820 feet) west of a gate across the road. (101.45 meters or 332.84 feet.)

94.—About 2.1 miles west of **Zapata**, Zapata County, a nail in a hub, 5 meters north of the Military Road, 200 meters (656 feet) west of a gate at the south side of the road. (93.73 meters or 307.51 feet.)

95.—About 4.1 miles west of **Zapata**, Zapata County, a nail in a hub, 5 meters south of the Military Road, and opposite the cliff on the north side of the road. (87.71 meters or 287.76 feet.)

96.—About 4.9 miles west of **Zapata**, Zapata County, a nail in a hub, 2 meters north of the Military Road, and opposite a large mail box. (104.95 meters or 344.32 feet.)

97.—About 6.9 miles west of **Zapata**, Zapata County, a nail in a hub, 2 meters south of the Military Road, 10 meters (33 feet) west of an arroyo with a water hole. (105.60 meters or 346.46 feet.)

98.—About 9.7 miles west of **Zapata**, Zapata County, a nail in a hub, 2 meters south of the Military Road, near a little palm tree. (122.68 meters or 402.49 feet.)

99.—About 10.8 miles west of **Zapata**, Zapata County, a nail in a hub, 3 meters north of the Military Road, and 20 meters (66 feet) east of a very wide arroyo. (92.54 meters or 303.61 feet.)

100.—About 39 miles east of **Laredo**, Webb County, a nail in the top of the milepost. (97.41 meters or 319.59 feet.)

101.—About 38 miles east of **Laredo**, Webb County, a nail in the top of the milepost. (111.16 meters or 364.70 feet.)

102.—About 37 miles east of **Laredo**, Webb County, a nail in the top of the milepost. (119.55 meters or 392.22 feet.)

103.—About 36 miles east of **Laredo**, Webb County, a nail in the top of the milepost. (106.17 meters or 348.33 feet.)

- 104.—About 35 miles east of **Laredo**, Webb County, a nail in the top of the milepost. (98.92 meters or 324.54 feet.)
- 105.—About 33 miles east of **Laredo**, Webb County, a nail in the top of the milepost. (101.43 meters or 332.77 feet.)
- 106.—About 32 miles east of **Laredo**, Webb County, a nail in the top of the milepost. (119.09 meters or 390.71 feet.)
- 107.—About 30 miles east of **Laredo**, Webb County, a nail in the top of the milepost. (103.65 meters or 340.06 feet.)
- 108.—About 29 miles east of **Laredo**, Webb County, a nail in the top of the milepost. (107.68 meters or 353.28 feet.)
- 109.—About 28 miles east of **Laredo**, Webb County, a nail in the top of the milepost. (105.72 meters or 346.85 feet.)
- 110.—About 26 miles east of **Laredo**, Webb County, a nail in the top of the milepost. (107.40 meters or 352.36 feet.)
- 111.—About 24 miles east of **Laredo**, Webb County, a nail in the top of the milepost. (107.86 meters or 353.87 feet.)
- 112.—About 22 miles east of **Laredo**, Webb County, a nail in the top of the milepost. (99.99 meters or 328.05 feet.)
- 113.—About 21 miles east of **Laredo**, Webb County, a nail in the top of the milepost. (117.70 meters or 386.15 feet.)
- 114.—About 19 miles east of **Laredo**, Webb County, a nail in the top of the milepost. (132.39 meters or 434.35 feet.)
- 115.—About 18 miles east of **Laredo**, Webb County, a nail in the top of the milepost. (143.04 meters or 469.29 feet.)
- 116.—About 16 miles east of **Laredo**, Webb County, a nail in the top of the milepost. (148.04 meters or 485.69 feet.)
- 117.—About 14 miles east of **Laredo**, Webb County, a nail in the top of the milepost. (133.39 meters or 437.63 feet.)

LINE XVIII, HILLSBORO, TEX., TO SHREVEPORT, LA.

TEMPORARY BENCH MARKS AND ELEVATION OF RAIL IN FRONT OF RAILROAD STATIONS.

Trinity & Brazos Valley Railway.

- At **Hillsboro**, Hill County, top of rail. (189.34 meters or 621.19 feet.)
- 19.—About 0.8 mile southeast of **Reunion**, Hill County, a lag screw in the base of the thirteenth telegraph pole east of milepost 262. (235.88 meters or 773.88 feet.)
- 20.—About 1.6 miles southeast of **Reunion**, Hill County, a lag screw in the base of the seventh telegraph pole east of milepost 261. (236.29 meters or 775.23 feet.)
- 21.—About 2.4 miles southeast of **Reunion**, Hill County, a lag screw in the base of milepost 260. (227.95 meters or 747.87 feet.)
- 22.—About 1.8 miles northwest of **Bynum**, Hill County, a lag screw in the base of the seventeenth telegraph pole east of milepost 259. (209.15 meters or 686.19 feet.)
- 23.—About 1 mile northwest of **Bynum**, Hill County, a lag screw in the base of the thirteenth telegraph pole east of milepost 258. (203.91 meters or 668.99 feet.)
- 24.—About 1 mile southeast of **Bynum**, Hill County, a lag screw in the base of the tenth telegraph pole east of milepost 256. (188.17 meters or 617.35 feet.)
- 25.—About 2 miles southeast of **Bynum**, Hill County, a lag screw in the base of the thirteenth telegraph pole east of milepost 255. (179.58 meters or 589.17 feet.)
- 26.—About 3.8 miles southeast of **Bynum**, Hill County, a lag screw in the base of milepost 253. (165.65 meters or 543.47 feet.)
- 27.—About 3 miles northwest of **Malone**, Hill County, a square cut south of the track in a concrete culvert, a short distance east of milepost 252 and the same distance west of a telegraph pole. (158.69 meters or 520.64 feet.)
- 28.—About 1.5 miles northwest of **Malone**, Hill County, a lag screw in the base of the seventeenth telegraph pole east of milepost 251. (156.19 meters or 512.43 feet.)
- 29.—About 0.7 mile northwest of **Malone**, Hill County, a lag screw in the base of the eighth telegraph pole east of milepost 250. (152.88 meters or 501.57 feet.)

At **Malone**, Hill County, International & Great Northern Railway crossing, top of rail. (145.34 meters or 476.84 feet.)

30.—About 1 mile southeast of **Malone**, Hill County, six telegraph poles west of milepost 248, a lag screw in a pile at the west end of a trestle and south of the track. (141.08 meters or 462.86 feet.)

31.—About 1.5 miles southeast of **Malone**, Hill County, a lag screw in the fifteenth telegraph pole east of milepost 248. (141.15 meters or 463.09 feet.)

32.—About 3 miles southeast of **Malone**, Hill County, a lag screw in the base of milepost 246. (141.73 meters or 464.99 feet.)

33.—About 4 miles southeast of **Malone**, Hill County, a lag screw in the base of milepost 245. (142.68 meters or 468.11 feet.)

34.—About 3.4 miles northwest of **Hubbard**, Hill County, a lag screw in the base of the fourth telegraph pole west of milepost 244. (150.90 meters or 495.08 feet.)

35.—About 2.6 miles northwest of **Hubbard**, Hill County, a lag screw in the base of the twelfth telegraph pole west of milepost 243. (160.93 meters or 527.98 feet.)

36.—About 1.3 miles northwest of **Hubbard**, Hill County, 2 telegraph poles west of milepost 242, a lag screw in the northeast piling of a trestle. (173.95 meters or 570.70 feet.)

37.—About 0.5 mile northwest of **Hubbard**, Hill County, a lag screw in the base of the tenth telegraph pole west of milepost 241. (181.78 meters or 596.39 feet.)

38.—About 1 mile southeast of **Hubbard**, Hill County, 7 telegraph poles east of milepost 240, a lag screw in the piling of a trestle. (174.51 meters or 572.54 feet.)

39.—About 2 miles southeast of **Hubbard**, Hill County, a lag screw in the base of the eleventh telegraph pole east of milepost 239. (165.79 meters or 543.93 feet.)

40.—About 2.6 miles northwest of **Munger**, Limestone County, opposite milepost 237, a square cut on the northwest corner of a concrete culvert. (158.14 meters or 518.83 feet.)

41.—About 1.7 miles northwest of **Munger**, Limestone County, a lag screw in the base of the fifth telegraph pole west of milepost 236. (154.27 meters or 506.13 feet.)

42.—About 0.7 mile northwest of **Munger**, Limestone County, a lag screw in the base of the eighth telegraph pole west of milepost 235. (148.25 meters or 486.38 feet.)

At **Munger**, Limestone County, top of rail. (151.46 meters or 496.92 feet.)

43.—About 1.5 miles southeast of **Munger**, Limestone County, a lag screw in the base of the first telegraph pole east of milepost 233. (145.20 meters or 476.38 feet.)

44.—About 2.4 miles southeast of **Munger**, Limestone County, a lag screw in the base of the third telegraph pole west of milepost 232. (148.47 meters or 487.11 feet.)

45.—About 1.2 miles northwest of **Cooledge**, Limestone County, a lag screw in the base of the third telegraph pole west of milepost 231. (150.44 meters or 493.57 feet.)

46.—About 0.2 mile northwest of **Cooledge**, Limestone County, 4 telegraph poles west of milepost 230, the head of a bolt in the southwest corner of a concrete culvert. (159.82 meters or 524.34 feet.)

47.—About 1 mile southeast of **Cooledge**, Limestone County, a lag screw in the base of the third telegraph pole east of milepost 229. (160.38 meters or 526.18 feet.)

48.—About 0.2 mile northwest of **Datura**, Limestone County, a lag screw in the base of the fourth telegraph pole west of milepost 227. (159.24 meters or 522.44 feet.)

49.—About 1.3 miles southeast of **Datura**, Limestone County, a lag screw in the base of the fifteenth telegraph pole east of milepost 226. (153.78 meters or 504.53 feet.)

50.—About 2 miles southeast of **Datura**, Limestone County, a lag screw in the base of the fifth telegraph pole east of milepost 225. (156.92 meters or 514.83 feet.)

51.—About 1.2 miles northwest of **Tehuacana**, Limestone County, a lag screw in the base of the twentieth telegraph pole east of milepost 224. (172.01 meters or 564.34 feet.)

- 52.—About 0.5 mile northwest of **Tehuacana**, Limestone County, a lag screw in the base of the thirteenth telegraph pole east of milepost 223. (172.52 meters or 566.01 feet.)
- 53.—About 1.4 miles southeast of **Tehuacana**, Limestone County, a lag screw in the base of the tenth telegraph pole east of milepost 221. (166.03 meters or 544.72 feet.)
- 54.—About 2 miles southeast of **Tehuacana**, Limestone County, a lag screw in the base of the fourth telegraph pole west of milepost 220. (160.79 meters or 527.53 feet.)
- 55.—About 1 mile northwest of **Mexia**, Limestone County, a lag screw in the base of the eighth telegraph pole east of milepost 219. (159.59 meters or 523.59 feet.)
- 56.—About 0.4 mile northwest of **Mexia**, Limestone County, 6 telegraph poles west of milepost 218; the head of a bolt in the southwest corner of a concrete culvert. (159.24 meters or 522.44 feet.)

Houston & Texas Central Railroad.

- 58.—About 0.6 mile northwest of **Mexia Junction**, Limestone County, a lag screw in the base of the eighth telegraph pole east of milepost 179. (139.83 meters or 458.76 feet.)
- 59.—About 1 mile southeast of **Mexia Junction**, Limestone County, a lag screw in the base of the third telegraph pole west of milepost 93. (138.03 meters or 452.85 feet.)
- 60.—About 1 mile northwest of **Shiloh**, Limestone County, a lag screw in the base of the eighth telegraph pole west of milepost 92. (145.63 meters or 477.79 feet.)
- 61.—About 1 mile southeast of **Shiloh**, Limestone County, a lag screw in the base of the twenty-sixth telegraph pole east of milepost 91. (157.79 meters or 517.68 feet.)
- 62.—About 1.5 miles northwest of **Fallon**, Limestone County, a lag screw in the base of the sixteenth telegraph pole east of milepost 90. (154.30 meters or 506.23 feet.)
- 63.—About 0.2 mile southeast of **Fallon**, Limestone County, a lag screw in the base of the first telegraph pole east of milepost 88. (156.12 meters or 512.20 feet.)
- 64.—About 0.7 mile southeast of **Fallon**, Limestone County, a lag screw in the base of the twenty-second telegraph pole east of milepost 88. (154.56 meters or 507.09 feet.)
- 65.—About 1.5 miles southeast of **Fallon**, Limestone County, a lag screw in the base of the fourteenth telegraph pole east of milepost 87. (158.23 meters or 519.13 feet.)
- 66.—About 2.2 miles southeast of **Fallon**, Limestone County, a lag screw in the base of the second telegraph pole east of milepost 86. (154.57 meters or 507.12 feet.)
- 67.—About 3.2 miles southeast of **Fallon**, Limestone County, a lag screw in the base of the second telegraph pole east of milepost 85. (145.62 meters or 477.75 feet.)
- 68.—About 2.7 miles northwest of **Personville**, Limestone County, a lag screw in the base of the twenty-sixth telegraph pole east of milepost 85. (144.48 meters or 474.01 feet.)
- 69.—About 0.8 mile northwest of **Personville**, Limestone County, a lag screw in the base of the twenty-first telegraph pole east of milepost 83. (133.18 meters or 436.94 feet.)
- 70.—About 0.7 mile southeast of **Personville**, Limestone County, a lag screw in the base of the second telegraph pole east of milepost 81. (122.65 meters or 402.39 feet.)
- 71.—About 1.8 miles southeast of **Personville**, Limestone County, a lag screw in the base of the fourth telegraph pole east of milepost 80. (125.60 meters or 412.07 feet.)
- 72.—About 1.8 miles northwest of **Farrar**, Limestone County, a lag screw in the base of the twenty-seventh telegraph pole east of milepost 79. (124.94 meters or 409.01 feet.)
- 73.—About 1 mile northwest of **Farrar**, Limestone County, a lag screw in the base of the twenty-first telegraph pole east of milepost 78. (124.15 meters or 407.32 feet.)

At **Farrar**, Limestone County, top of rail. (131.59 meters or 431.72 feet.)

74.—About 0.3 mile southeast of **Farrar**, Limestone County, a lag screw in the base of the seventh telegraph pole west of milepost 76. (135.91 meters or 445.90 feet.)

75.—About 1.1 miles southeast of **Farrar**, Limestone County, a lag screw in the base of the fifteenth telegraph pole west of milepost 45. (141.04 meters or 462.73 feet.)

76.—About 2 miles southeast of **Farrar**, Limestone County, the top of the north end of culvert No. 74B. (141.39 meters or 463.88 feet.)

77.—About 2 miles northwest of **Evansville**, Leon County, a lag screw in the base of the twenty-third telegraph pole west of milepost 73. (136.89 meters or 449.11 feet.)

78.—About 1.4 miles northwest of **Evansville**, Leon County, a lag screw in the base of the second telegraph pole east of milepost 73. (134.30 meters or 440.62 feet.)

79.—About 0.4 mile southeast of **Evansville**, Leon County, a lag screw in the base of the tenth telegraph pole west of milepost 71. (129.18 meters or 423.82 feet.)

80.—About 1.4 miles southeast of **Evansville**, Leon County, a lag screw in the base of the twelfth telegraph pole west of milepost 70. (130.80 meters or 429.13 feet.)

81.—About 2.1 miles southeast of **Evansville**, Leon County, a lag screw in the base of the nineteenth telegraph pole west of milepost 69. (137.73 meters or 451.87 feet.)

82.—About 3.5 miles northwest of **Jewett**, Leon County, a lag screw in the base of the seventeenth telegraph pole west of milepost 68. (140.83 meters or 462.04 feet.)

83.—About 3 miles northwest of **Jewett**, Leon County, a lag screw in the base of the ninth telegraph pole east of milepost 68. (141.06 meters or 462.79 feet.)

84.—About 2.4 miles northwest of **Jewett**, Leon County, a lag screw in the base of the fourth telegraph pole west of milepost 67. (141.54 meters or 464.37 feet.)

85.—About 1.7 miles northwest of **Jewett**, Leon County, a lag screw in the base of the twenty-fifth telegraph pole east of milepost 67. (145.09 meters or 476.02 feet.)

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86.—About 0.5 mile northwest of **Jewett**, Leon County, a lag screw in the base of the thirteenth telegraph pole west of milepost 44. (143.09 meters or 472.41 feet.)

At **Jewett**, Leon County, top of rail. (149.38 meters or 490.09 feet.)

87.—About 0.9 mile northeast of **Jewett**, Leon County, a lag screw in the base of the second telegraph pole east of milepost 43. (151.56 meters or 497.24 feet.)

88.—About 1.6 miles northeast of **Jewett**, Leon County, a lag screw in the base of the fifth telegraph pole west of milepost 42. (148.57 meters or 487.43 feet.)

89.—About 2.4 miles northeast of **Jewett**, Leon County, a lag screw in the base of the thirteenth telegraph pole west of milepost 41. (149.96 meters or 491.99 feet.)

90.—About 4.5 miles northeast of **Jewett**, Leon County, a lag screw in the base of the thirteenth telegraph pole west of milepost 39. (131.68 meters or 432.02 feet.)

91.—About 2.9 miles southwest of **Buffalo**, Leon County, a lag screw in the base of the fifteenth telegraph pole east of milepost 38. (127.54 meters or 418.44 feet.)

92.—About 1 mile southwest of **Buffalo**, Leon County, a lag screw in the base of the second telegraph pole east of milepost 36. (125.04 meters or 410.24 feet.)

94.—About 0.4 mile southwest of **Buffalo**, Leon County, a lag screw in the base of the tenth telegraph pole west of milepost 35. (115.87 meters or 380.15 feet.)

95.—About 0.8 mile northeast of **Buffalo**, Leon County, a lag screw in the base of the second telegraph pole east of milepost 34. (116.11 meters or 380.94 feet.)

96.—About 1.8 miles northeast of **Buffalo**, Leon County, a lag screw in the base of milepost 33. (106.73 meters or 350.16 feet.)

97.—About 3.6 miles northeast of **Buffalo**, Leon County, a lag screw in the base of the eighth telegraph pole west of milepost 31. (87.57 meters or 287.30 feet.)

98.—About 4 miles southwest of **Keechi**, Leon County, a lag screw in the base of the eleventh telegraph pole east of milepost 31. (77.77 meters or 255.15 feet.)

99.—About 3.2 miles southwest of **Keechi**, Leon County, a lag screw in the base of the second telegraph pole east of milepost 30. (77.34 meters or 253.74 feet.)

100.—About 2.3 miles southwest of **Keechi**, Leon County, a lag screw in the base of the sixth telegraph pole west of milepost 29. (77.46 meters or 254.13 feet.)

101.—About 1 mile southwest of **Keechi**, Leon County, a lag screw in the base of the sixth telegraph pole east of milepost 28. (96.18 meters or 315.55 feet.)

102.—About 0.7 mile northeast of **Keechi**, Leon County, a lag screw in the base of the eighth telegraph pole west of milepost 26. (89.70 meters or 294.49 feet.)

103.—About 2 miles northeast of **Keechi**, Leon County, a lag screw in the base of the second telegraph pole east of milepost 25. (98.23 meters or 322.28 feet.)

104.—About 3 miles northeast of **Keechi**, Leon County, a lag screw in the base of the third telegraph pole east of milepost 24. (117.08 meters or 384.12 feet.)

105.—About 4 miles northeast of **Keechi**, Leon County, a lag screw in the base of the second telegraph pole west of milepost 23. (110.81 meters or 363.55 feet.)

106.—About 3.3 miles southwest of **Oakwood**, Leon County, a lag screw in the base of the fifteenth telegraph pole west of milepost 21. (84.59 meters or 277.53 feet.)

107.—About 2.5 miles southwest of **Oakwood**, Leon County, the head of a bolt on the southeast corner of trestle No. 21C. (77.27 meters or 253.51 feet.)

108.—About 1.7 miles southwest of **Oakwood**, Leon County, a lag screw in the base of the seventh telegraph pole east of milepost 20. (88.78 meters or 291.27 feet.)

109.—About 0.8 mile southwest of **Oakwood**, Leon County, a lag screw in the base of the fourth telegraph pole east of milepost 19. (87.51 meters or 287.11 feet.)

110.—About 1.2 miles northeast of **Oakwood**, Leon County, a lag screw in the base of the fourth telegraph pole east of milepost 17. (83.55 meters or 274.11 feet.)

111.—About 2 miles northeast of **Oakwood**, Leon County, the head of a bolt on the south side of trestle No. 17A. (78.27 meters or 256.79 feet.)

112.—About 2.3 miles northeast of **Oakwood**, Leon County, a lag screw in the base of the eighth telegraph pole east of milepost 16. (77.93 meters or 255.68 feet.)

113.—About 3.3 miles northeast of **Oakwood**, Leon County, a lag screw in the base of the fifth telegraph pole east of milepost 15. (77.92 meters or 255.64 feet.)

114.—About 1.7 miles southwest of **Long Lake**, Anderson County, a lag screw in the base of the second telegraph pole west of milepost 14. (76.63 meters or 251.41 feet.)

115.—About 0.6 mile southwest of **Long Lake**, Anderson County, three telegraph poles east of milepost 13, the head of a bolt on the southeast corner of a trestle. (71.59 meters or 234.87 feet.)

116.—About 0.5 mile northeast of **Long Lake**, Anderson County, a lag screw in the base of the sixth telegraph pole east of milepost 12. (71.94 meters or 236.02 feet.)

117.—About 1.4 miles northeast of **Long Lake**, Anderson County, a lag screw in the base of the first telegraph pole east of milepost 11. (73.51 meters or 241.17 feet.)

118.—About 2 miles southwest of **Tucker**, Anderson County, a lag screw in the base of the ninth telegraph pole west of milepost 10. (80.35 meters or 263.61 feet.)

119.—About 1 mile southwest of **Tucker**, Anderson County, a lag screw in the base of the thirteenth telegraph pole west of milepost 9. (89.10 meters or 292.32 feet.)

120.—About 0.5 mile southwest of **Tucker**, Anderson County, a lag screw in the base of the fourth telegraph pole east of milepost 9. (90.47 meters or 296.82 feet.)

121.—About 0.4 mile northeast of **Tucker**, Anderson County, a square cut in the northwest concrete abutment of culvert No. 8C. (98.32 meters or 322.57 feet.)

122.—About 1.7 miles northeast of **Tucker**, Anderson County, a lag screw in the base of the fifteenth telegraph pole east of milepost 7. (109.80 meters or 360.24 feet.)

123.—About 2.3 miles northeast of **Tucker**, Anderson County, a lag screw in the base of the fourth telegraph pole west of milepost 6. (110.22 meters or 361.61 feet.)

124.—About 2.6 miles northeast of **Tucker**, Anderson County, a lag screw in the base of the ninth telegraph pole east of milepost 6. (107.43 meters or 352.46 feet.)

125.—About 3.3 miles northeast of **Tucker**, Anderson County, a lag screw in the base of the fifth telegraph pole west of milepost 5. (100.98 meters or 331.30 feet.)

126.—About 4 miles southwest of **Palestine**, Anderson County, a lag screw in the base of the twelfth telegraph pole east of milepost 4. (105.76 meters or 346.98 feet.)

127.—About 3.3 miles southwest of **Palestine**, Anderson County, a lag screw in the base of the third telegraph pole west of milepost 3. (113.30 meters or 371.72 feet.)

128.—About 2.6 miles southwest of **Palestine**, Anderson County, a lag screw in the base of the seventeenth telegraph pole west of milepost 2. (122.15 meters or 400.75 feet.)

129.—About 2 miles southwest of **Palestine**, Anderson County, a lag screw in the base of the fourth telegraph pole east of milepost 2. (131.76 meters or 432.28 feet.)

130.—About 1 mile southwest of **Palestine**, Anderson County, a lag screw in the base of the first telegraph pole west of milepost 1. (142.07 meters or 466.11 feet.)

131.—About 0.5 mile southwest of **Palestine**, Anderson County, a lag screw in the base of the twentieth telegraph pole east of milepost 1. (148.90 meters or 488.52 feet.)

At **Palestine**, Anderson County, top of rail. (148.24 meters or 486.35 feet.)

132.—About 1 mile northeast of **Palestine**, Anderson County, a lag screw in the base of the first telegraph pole east of milepost 1. (133.02 meters or 436.42 feet.)

133.—About 1.9 miles northeast of **Palestine**, Anderson County, a lag screw in the base of the eighth telegraph pole west of milepost 2. (116.86 meters or 383.40 feet.)

134.—About 2.4 miles northeast of **Palestine**, Anderson County, a lag screw in the base of the tenth telegraph pole east of milepost 2. (112.46 meters or 368.96 feet.)

135.—About 4.1 miles northeast of **Palestine**, Anderson County, a lag screw in the base of milepost 4. (104.50 meters or 342.85 feet.)

136.—About 4.3 miles northeast of **Palestine**, Anderson County, a lag screw in the base of the seventh telegraph pole east of milepost 4. (105.02 meters or 344.55 feet.)

137.—About 5.1 miles northeast of **Palestine**, Anderson County, a lag screw in the base of the first telegraph pole west of milepost 5. (102.78 meters or 337.20 feet.)

138.—About 5.7 miles northeast of **Palestine**, Anderson County, 13 telegraph poles west of milepost 6; a lag screw in the southeast end of trestle No. 6E. (100.81 meters or 330.74 feet.)

139.—About 2.1 miles southwest of **McDonald Spur**, Anderson County, 6 telegraph poles west of milepost 7; a lag screw in the southeast end of trestle No. 7D. (98.36 meters or 322.70 feet.)

140.—About 1.4 miles southwest of **McDonald Spur**, Anderson County, a lag screw in the base of the eighteenth telegraph pole west of milepost 8. (111.13 meters or 364.60 feet.)

141.—About 0.9 mile southwest of **McDonald Spur**, Anderson County, a lag screw in the base of the first telegraph pole east of milepost 8. (116.47 meters or 382.12 feet.)

142.—About 0.2 mile northeast of **McDonald Spur**, Anderson County, a lag screw in the base of the fifth telegraph pole east of milepost 9. (112.52 meters or 369.16 feet.)

143.—About 1.1 miles northeast of **McDonald Spur**, Anderson County, a lag screw in the base of the first telegraph pole east of milepost 10. (120.86 meters or 396.52 feet.)

144.—About 1.2 miles southwest of **Neches**, Anderson County, a lag screw in the base of the seventeenth telegraph pole west of milepost 11. (115.39 meters or 378.58 feet.)

145.—About 0.8 mile southwest of **Neches**, Anderson County, a lag screw in the base of milepost 11. (122.58 meters or 402.16 feet.)

146.—About 0.3 mile northeast of **Neches**, Anderson County, a lag screw in the base of the second telegraph pole east of milepost 12. (122.21 meters or 400.95 feet.)

147.—About 1 mile northeast of **Neches**, Anderson County, a lag screw in the base of the tenth telegraph pole west of milepost 13. (113.75 meters or 373.19 feet.)

148.—About 1.6 miles northeast of **Neches**, Anderson County, a lag screw in the base of the fifteenth telegraph pole east of milepost 13. (104.36 meters or 342.39 feet.)

149.—About 2.3 miles northeast of **Neches**, Anderson County, a lag screw in the base of the first telegraph pole east of milepost 14. (96.77 meters or 317.49 feet.)

151.—About 2 miles southwest of **Prices**, Cherokee County, a lag screw in the base of the second telegraph pole east of milepost 15. (90.82 meters or 297.97 feet.)

152.—About 0.2 mile southwest of **Prices**, Cherokee County, 10 telegraph poles west of milepost 17; a lag screw in culvert No. 17D. (87.17 meters or 285.99 feet.)

153.—About 0.2 mile northeast of **Prices**, Cherokee County, a lag screw in the base of the eleventh telegraph pole east of milepost 17. (97.72 meters or 320.60 feet.)

154.—About 1.1 miles northeast of **Prices**, Cherokee County, a lag screw in the base of the eighth telegraph pole east of milepost 18. (111.13 meters or 364.60 feet.)

155.—About 1.9 miles southwest of **Ironton**, Cherokee County, a lag screw in the base of the tenth telegraph pole west of milepost 19. (118.10 meters or 387.47 feet.)

156.—About 1.3 miles southwest of **Ironton**, Cherokee County, a lag screw in the base of the tenth telegraph pole east of milepost 19. (127.72 meters or 419.03 feet.)

157.—At **Ironton**, Cherokee County, a lag screw in the base of the twentieth telegraph pole west of milepost 21. (135.74 meters or 445.34 feet.)

158.—About 1.1 miles northeast of **Ironton**, Cherokee County, a lag screw in the base of the thirteenth telegraph pole west of milepost 22. (139.23 meters or 456.79 feet.)

159.—About 1.5 miles northeast of **Ironton**, Cherokee County, a lag screw in the base of the second telegraph pole west of milepost 22. (141.28 meters or 463.52 feet.)

160.—About 0.7 mile southwest of **Hume**, Cherokee County, a lag screw in the base of the seventh telegraph pole west of milepost 23. (155.43 meters or 509.94 feet.)

161.—About 0.1 mile southwest of **Hume**, Cherokee County, a lag screw in the base of the sixteenth telegraph pole east of milepost 23. (155.85 meters or 511.32 feet.)

162.—About 1.2 miles northeast of **Hume**, Cherokee County, a lag screw in the base of the eleventh telegraph pole west of milepost 25. (142.37 meters or 467.09 feet.)

163.—About 1.7 miles northeast of **Hume**, Cherokee County, a lag screw in the base of the eighth telegraph pole east of milepost 25. (135.57 meters or 444.78 feet.)

164.—About 0.8 mile southwest of the crossing of the Texas & New Orleans Railroad and the International & Great Northern Railway at **Jacksonville**, Cherokee County, a lag screw in the base of the first telegraph pole east of milepost 26. (145.10 meters or 476.05 feet.)

Texas & New Orleans Railroad.

167.—About 0.6 mile east of the crossing of the Texas & New Orleans Railroad and the International & Great Northern Railway, at Jacksonville, Cherokee County, a lag screw in the base of the thirteenth telegraph pole west of milepost 201. (157.25 meters or 515.91 feet.)

168.—About 1 mile east of the crossing of the Texas & New Orleans Railroad and the International & Great Northern Railway at Jacksonville, Cherokee County, a lag screw in the base of the second telegraph pole east of milepost 201. (150.82 meters or 494.82 feet.)

169.—About 2.2 miles east of the crossing of the Texas & New Orleans Railroad and the International & Great Northern Railway at Jacksonville, Cherokee County, a lag screw in the base of the ninth telegraph pole east of milepost 200. (147.34 meters or 483.40 feet.)

170.—About 3.5 miles west of Turney, Cherokee County, a lag screw in the base of the first telegraph pole east of milepost 199. (140.90 meters or 462.27 feet.)

171.—About 2.6 miles west of Turney, Cherokee County, a lag screw in the base of the fourth telegraph pole west of milepost 198. (129.04 meters or 423.36 feet.)

172.—About 2 miles west of Turney, Cherokee County, a lag screw in the base of the fifteenth telegraph pole west of milepost 197. (128.89 meters or 422.87 feet.)

173.—About 1.5 miles west of Turney, Cherokee County, a lag screw in the base of the third telegraph pole east of milepost 197. (136.04 meters or 446.32 feet.)

174.—About 1 mile west of Turney, Cherokee County, a lag screw in the base of the nineteenth telegraph pole east of milepost 197. (129.05 meters or 423.39 feet.)

175.—About 0.4 mile east of Turney, Cherokee County, a lag screw in the base of the fifth telegraph pole west of milepost 195. (119.43 meters or 391.83 feet.)

176.—About 1 mile east of Turney, Cherokee County, a lag screw in the base of the fourteenth telegraph pole east of milepost 195. (111.97 meters or 367.35 feet.)

177.—About 1.5 miles west of Gallatin, Cherokee County, a lag screw in the base of the third telegraph pole east of milepost 194. (105.10 meters or 344.82 feet.)

178.—About 0.4 mile west of Gallatin, Cherokee County, a lag screw in the base of the sixth telegraph pole east of milepost 193. (103.18 meters or 338.52 feet.)

At Gallatin, Cherokee County, top of rail. (107.04 meters or 351.18 feet.)

R. R. B. M. 192.—About 0.5 mile east of Gallatin, Cherokee County, the top of an upright rail in the ground near the track. (101.93 meters or 334.42 feet.)

t 81.—About 1 mile east of Gallatin, Cherokee County, a spike in a chiseled square on the west bulkhead of cattle guard No. 191C. (102.14 meters or 335.10 feet.)

R. R. B. M. 191.—About 1.5 miles east of Gallatin, Cherokee County, at milepost 191 and 10 meters (33 feet) southwest of cattle guard No. 190E. The top of an upright rail in the ground near the track. (104.71 meters or 343.54 feet.)

t 80.—About 2 miles east of Gallatin, Cherokee County, a spike circumscribed by a chiseled cut on the cap on the north side of the west end of bridge No. 190C. (95.19 meters or 312.30 feet.)

R. R. B. M. 190.—About 1.2 miles west of Ponta, Cherokee County, 40 meters (131 feet) east of bridge No. 190A and 25 feet south of the track. The top of an upright rail in the ground near the track. (84.59 meters or 277.53 feet.)

t 79.—About 0.8 mile west of Ponta, Cherokee County, a bolt in the third retaining timber from the top on the south side of the west end of bridge No. 189C. (84.47 meters or 277.13 feet.)

At Ponta, Cherokee County, top of rail. (84.47 meters or 277.13 feet.)

t 78.—About 0.8 mile east of Ponta, Cherokee County, a nail in a tie 300 meters (984 feet) east of a section house, 40 meters (131 feet) west of a farm crossing at the southwest corner of a woods. (84.00 meters or 275.59 feet.)

t 77.—About 1.5 miles east of **Ponta**, Cherokee County, a spike on the west cap of cattle guard No. 186G, 10 inches south of the north rail. (83.31 meters or 273.33 feet.)

t 76.—About 2.2 miles east of **Ponta**, Cherokee County, the top of an old spike in the retaining timber on the south side of the east end of bridge No. 186A. (89.29 meters or 292.95 feet.)

t 75.—About 3 miles east of **Ponta**, Cherokee County, a nail in the center of a tie 200 meters (656 feet) east of bridge No. 185E in the center of a cut. (95.33 meters or 312.76 feet.)

R. R. B. M. 185.—About 2.2 miles west of **Reklaw**, Cherokee County, the top of an upright rail in the ground near the track at milepost 185. (97.14 meters or 318.70 feet.)

t 74.—About 2 miles west of **Reklaw**, Cherokee County, a chiseled cross on a buried terra cotta pipe at the west end of a cut, 4 feet north of the rail, and at the edge of the ditch. (96.03 meters or 315.06 feet.)

R. R. B. M. 184.—About 1.2 miles west of **Reklaw**, Cherokee County, the top of an upright rail in the ground near the track at milepost 184. (95.35 meters or 312.83 feet.)

t 73.—About 1.2 miles west of **Reklaw**, Cherokee County, a nail in a tie 30 meters (98 feet) east of the farm crossing No. 183E. (90.76 meters or 297.77 feet.)

t 72.—About 0.8 mile west of **Reklaw**, Cherokee County, a bolt circumscribed by a chiseled cut on the middle cap on the south side of the west end of bridge No. 183A. (83.76 meters or 274.80 feet.)

t 71.—At **Reklaw**, Cherokee County, a nail in the southeast root of a large white oak tree 70 meters (230 feet) northwest of the depot. (87.47 meters or 286.97 feet.)

At **Reklaw**, Cherokee County, top of rail. (87.22 meters or 286.15 feet.)

R. R. B. M. 182.—About 0.8 mile east of **Reklaw**, Cherokee County, the top of an upright rail in the ground near the track at milepost 182. (81.14 meters or 266.21 feet.)

t 70.—About 0.8 mile east of **Reklaw**, Cherokee County, a nail in the middle retaining timber of the south side of the west end of bridge No. 181D. (82.78 meters or 271.59 feet.)

t 69.—About 3.5 miles west of **Sacul**, Nacogdoches County, a nail in the end of the cap on a bend at the north side of the east end of bridge No. 181A. (89.39 meters or 293.27 feet.)

t 68.—About 3 miles west of **Sacul**, Nacogdoches County, a nail in a tie 30 meters (98 feet) south of culvert No. 180B and 15 meters (49 feet) north of a switch. (92.58 meters or 303.74 feet.)

t 67.—About 2 miles west of **Sacul**, Nacogdoches County, the top of a bolt in a square on the cap at the south side of cattle guard No. 178C. (82.92 meters or 272.05 feet.)

t 66.—About 1.5 miles west of **Sacul**, Nacogdoches County, a nail on the west bulkhead of the bridge over the Angeline River. (83.01 meters or 272.34 feet.)

t 65.—About 1 mile west of **Sacul**, Nacogdoches County, a nail in the center of a tie 200 meters (656 feet) east of the east end of the bridge over the Angeline River and 10 meters (33 feet) east of the west end of a cut. (85.38 meters or 280.12 feet.)

t 64.—About 0.5 mile east of **Sacul**, Nacogdoches County, a nail in the center of a tie 10 feet east of bridge No. 176B. (89.65 meters or 294.13 feet.)

R. R. B. M. 176.—About 1.2 miles east of **Sacul**, Nacogdoches County, the top of an upright rail in the ground near the track at milepost 176. (94.10 meters or 308.73 feet.)

t 63.—About 1.2 miles east of **Sacul**, Nacogdoches County, a nail in the top of the road filling timber at a farm crossing and 10 feet south of the track. (94.33 meters or 309.48 feet.)

R. R. B. M. 175.—About 2 miles east of **Sacul**, Nacogdoches County, the top of an upright rail in the ground near the track. (99.15 meters or 325.29 feet.)

R. R. B. M. 174.5.—About 2.5 miles west of **Cushing**, Nacogdoches County, the top of an upright rail in the ground near the track. (108.47 meters or 355.87 feet.)

R. R. B. M. 174.—About 2 miles west of **Cushing**, Nacogdoches County, the top of an upright rail in the ground near the track at milepost 174. (108.90 meters or 357.22 feet.)

t 62.—About 1.8 miles west of **Cushing**, Nacogdoches County, a spike in the center of a tie 100 meters (328 feet) east of a whistling post and opposite a clearing. (106.54 meters or 349.54 feet.)

R. R. B. M. 173.—About 1 mile west of **Cushing**, Nacogdoches County, the top of an upright rail in the ground near the track at milepost 173. (117.72 meters or 386.22 feet.)

At **Cushing**, Nacogdoches County, top of rail. (126.12 meters or 413.78 feet.)

t 61.—About 0.8 mile east of **Cushing**, Nacogdoches County, a nail in a tie, at the west end of a curve and 70 meters (230 feet) east of milepost 171B. (118.89 meters or 390.06 feet.)

R. R. B. M. 171.—About 0.8 mile east of **Cushing**, Nacogdoches County, the top of an upright rail in the ground near the track at milepost 171. (116.60 meters or 382.74 feet.)

t 60.—About 1.5 miles east of **Cushing**, Nacogdoches County, a nail in the center of a tie, 150 meters (492 feet) west of the crossing No. 170C, 60 meters (197 feet) west of a square house, and at the west end of a small cut. (111.03 meters or 364.27 feet.)

t 59.—About 2.2 miles east of **Cushing**, Nacogdoches County, a nail in the center of a tie at the west end of a cut and the east end of a tangent. (121.32 meters or 398.03 feet.)

R. R. B. M. 50529.—About 1.6 miles west of **Delmont**, Nacogdoches County, (123.74 meters or 405.97 feet.)

t 58.—About 1.4 miles west of **Delmont**, Nacogdoches County, a nail in a square on the cap at the southwest corner of bridge No. 158A, and 2 feet south of the south rail. (124.50 meters or 408.46 feet.)

t 57.—About 0.8 mile west of **Delmont**, Nacogdoches County, a spike in the center of the track in the west bulkhead of cattle guard No. 167E. (132.50 meters or 434.71 feet.)

t 56.—About 0.2 mile southeast of **Delmont**, Nacogdoches County, a nail in the center of a fat pine or lightwood stump at the corner of the fence, 13 feet east of a whistling post and 45 feet south of the track. (138.52 meters or 454.46 feet.)

t 55.—About 0.5 mile west of **Trawick**, Nacogdoches County, the top of a terra-cotta pipe, 1 inch in diameter, opposite a section house, near the corner of the tool house. (129.53 meters or 424.97 feet.)

t 54.—At **Trawick**, Nacogdoches County, a nail in a deep set tie, 70 meters (230 feet) south of the depot and 7 feet south of a road crossing. (132.19 meters or 433.69 feet.)

At **Trawick**, Nacogdoches County, top of rail. (132.74 meters or 435.50 feet.)

t 53.—About 1.2 miles west of **Caro**, Nacogdoches County, a nail in a tie 20 feet east of the sign "Trawick 1 mile." (132.78 meters or 435.63 feet.)

R. R. B. M.—About 1 mile west of **Caro**, Nacogdoches County, 120 meters (394 feet) east of the sign "Caro 1 mile." The top of an upright rail in the ground near the track. (133.04 meters or 436.48 feet.)

t 52.—About 0.6 mile west of **Caro**, Nacogdoches County, a nail in a tie 8 meters east of the cattle guard No. 163B. (131.59 meters or 431.72 feet.)

t 51.—At **Caro**, Nacogdoches County, a nail in a large fat pine stump, 19 meters (62 feet) north of the depot. (131.88 meters or 432.68 feet.)

At **Caro**, Nacogdoches County, top of rail. (132.35 meters or 434.22 feet.)

R. R. B. M.—At **Caro**, Nacogdoches County, the top of an upright rail in the ground near the track at the depot. (132.59 meters or 435.01 feet.)

t 50.—About 0.5 mile southeast of **Caro**, Nacogdoches County, a nail in the tie timber at the southwest corner of bridge No. 162D. (126.47 meters or 414.93 feet.)

t 49.—About 1 mile southeast of **Caro**, Nacogdoches County, a nail in a tie 8 meters (26 feet) south of the sign "Caro 1 mile." (134.71 meters or 441.96 feet.)

t 48.—About 1.3 miles northwest of **Mahl**, Nacogdoches County, the top of a spike in the retaining timber in the northeast corner of bridge No. 161A, and 29 inches east of the east rail. (143.87 meters or 472.01 feet.)

t 47.—About 0.8 mile northwest of **Mahl**, Nacogdoches County, a nail in an embedded tie, 110 meters (361 feet) north of culvert No. 160F, at the north end of a cornfield. (151.32 meters or 496.46 feet.)

At **Mahl**, Nacogdoches County, top of rail. (158.17 meters or 518.93 feet.)

t 46.—About 0.4 mile south of **Mahl**, Nacogdoches County, a nail in a tie 40 meters (131 feet) south of ravine No. 159, opposite a house on a hill. (160.93 meters or 527.98 feet.)

t 45.—About 3.3 miles north of **Bonita Junction**, Nacogdoches County, a nail in an embedded tie 1 mile south of the Bonita section house and 49 meters (161 feet) north of milepost 58. (154.65 meters or 507.38 feet.)

t 44.—About 2.7 miles north of **Bonita Junction**, Nacogdoches County, a nail in a tie 18 meters (59 feet) north of bridge No. 157B. (145.99 meters or 478.97 feet.)

t 43.—About 2.2 miles north of **Bonita Junction**, Nacogdoches County, a spike in an embedded tie near the center of the track, about 50 meters (164 feet) north of bridge No. 156I. (137.97 meters or 452.66 feet.)

t 42.—About 1.7 miles north of **Bonita Junction**, Nacogdoches County, a nail in a tie 50 meters (164 feet) south of a cut and new grading, and 45 meters (148 feet) east of a pile of plates. (129.67 meters or 425.43 feet.)

t 41.—About 1.3 miles north of **Bonita Junction**, Nacogdoches County, a nail in a large mudsill on the north side of the north cattle guard at a crossing, in the center of the track. (121.35 meters or 398.13 feet.)

t 40.—About 0.5 mile north of **Bonita Junction**, Nacogdoches County, a nail in the cap on the southeast quarter of bridge No. 155B. (110.84 meters or 363.65 feet.)

Spur to Nacogdoches.—Houston East & West Texas Railway.

t 38.—About 0.7 mile southwest of **Bonita Junction**, Nacogdoches County, a nail in an embedded tie opposite a projection of the woods and 100 meters (328 feet) east of a knoll. (99.97 meters or 327.98 feet.)

E. R. B. M. 140.—About 2 miles east of **Nacogdoches**, Nacogdoches County, the top of an upright rail in the ground near the track at milepost 140. (95.95 meters or 314.80 feet.)

E. R. B. M. 139.5.—About 1.5 miles east of **Nacogdoches**, Nacogdoches County, the top of an upright rail in the ground 30 feet west of the track (set back of a wooden stake in the high grass). (92.86 meters or 304.66 feet.)

t 39.—About 0.4 mile east of **Nacogdoches**, Nacogdoches County, a cross on the lower step of the cement area in front of the gate of a yellow house, 200 meters (656 feet) west of a water tank. (88.63 meters or 290.78 feet.)

End of spur.

E. R. B. M. 141.5.—About 125 meters (410 feet) east of **Bonita Junction**, Nacogdoches County, the top of an upright rail in the ground near the track. (109.53 meters or 359.35 feet.)

E. R. B. M. 142.—About 0.6 mile east of **Bonita Junction**, Nacogdoches County, the top of an upright rail in the ground near the track at milepost 142. (118.67 meters or 389.34 feet.)

t 37.—About 1 mile northeast of **Bonita Junction**, Nacogdoches County, at Millard Crossing; a spike in the east bulkhead of the west cattle guard No. 142D, 20 inches north of the north rail. (127.18 meters or 417.23 feet.)

t 36.—About 1 mile west of **Redfield**, Nacogdoches County, a spike in the east bulkhead of the west cattle guard at crossing No. 142E, and 18 inches north of the north rail. (125.51 meters or 411.78 feet.)

t 35.—About 0.1 mile southwest of **Redfield**, Nacogdoches County, a nail in the center of an embedded tie, 30 meters (98 feet) west of the sign "Redfield." (116.76 meters or 383.07 feet.)

At **Redfield**, Nacogdoches County, top of rail. (115.03 meters or 377.39 feet.)

t 34.—About 1 mile northeast of **Redfield**, Nacogdoches County, a spike in the first telegraph pole west of a grove and the second west of the sign "Redfield 1 mile." (109.43 meters or 359.02 feet.)

E. R. B. M. 145.5.—About 1.8 miles south of **Appleby**, Nacogdoches County, the top of an upright rail in the ground near the track. (107.75 meters or 353.51 feet.)

t 33.—About 1.4 miles south of **Appleby**, Nacogdoches County, a nail in the center of a tie 80 meters (262 feet) east of milepost 146 and the sign "Appleby 1 mile." (109.73 meters or 360.01 feet.)

E. R. B. M. 147.—About 0.5 mile south of **Appleby**, Nacogdoches County, the top of an upright rail in the ground near the track at milepost 147. (120.55 meters or 395.50 feet.)

At **Appleby**, Nacogdoches County, top of rail. (124.98 meters or 410.04 feet.)

t 32.—About 0.4 mile north of **Appleby**, Nacogdoches County, a spike in a tie at crossing No. 147E. (128.25 meters or 420.77 feet.)

R. R. B. M. 148.5.—About 1 mile north of **Appleby**, Nacogdoches County, 20 meters (66 feet) west of the sign "Appleby 1 mile." The top of an upright rail in the ground near the track. (124.82 meters or 409.51 feet.)

R. R. B. M. 149.—About 1 mile south of **Mayotown**, Nacogdoches County, the top of an upright rail in the ground near the track at milepost 149. (125.77 meters or 412.63 feet.)

t 31.—About 1 mile south of **Mayotown**, Nacogdoches County, a spike in a tie at the top of the grade, 120 meters (394 feet) east of a dead tree. (123.90 meters or 406.50 feet.)

At **Mayotown**, Nacogdoches County, top of rail. (110.33 meters or 361.97 feet.)

t 30.—About 0.7 mile northeast of **Mayotown**, Nacogdoches County, a nail in the center of a tie opposite a lone sassafras tree in the south fence and 100 meters (328 feet) east of a pond on the north side of the track. (99.68 meters or 327.03 feet.)

t 29.—About 1.4 miles northeast of **Mayotown**, Nacogdoches County, a spike in a tie 20 meters (66 feet) east of bridge No. 151B. (94.37 meters or 309.61 feet.)

t 28.—About 2 miles northeast of **Mayotown**, Nacogdoches County, a spike in the north stringer on the west end of bridge No. 152B. (92.77 meters or 304.36 feet.)

R. R. B. M. 153.—About 1.5 miles west of **Fitze**, Nacogdoches County, the top of an upright rail in the ground near the track at milepost 153. 107.13 meters or 351.48 feet.)

t 27.—About 0.8 mile west of **Fitze**, Nacogdoches County, a spike in the center of a tie, 10 feet east of milepost 153E. (123.70 meters or 405.84 feet.)

R. R. B. M. 154.—About 0.5 mile west of **Fitze**, Nacogdoches County, the top of an upright rail in the ground near the track at milepost 154. (132.75 meters or 435.53 feet.)

R. R. B. M. 154.5.—About 120 meters (394 feet) east of the section house at **Fitze**, Nacogdoches County, the top of an upright rail in the ground on the north side of the track. (138.80 meters or 455.38 feet.)

At **Fitze**, Nacogdoches County, top of rail. (138.18 meters or 453.35 feet.)

t 26.—About 0.8 mile east of **Fitze**, Nacogdoches County, a nail in a tie at the east end of a long cut, and 20 meters (66 feet) west of milepost 155B. (120.37 meters or 394.91 feet.)

t 25.—About 2.4 miles southwest of **Garrison**, Nacogdoches County, a nail in the center of a tie 50 meters (164 feet) east of milepost 156 and 50 meters (164 feet) west of a bridge, on a curve. (101.51 meters or 333.04 feet.)

t 24.—About 1.5 miles southwest of **Garrison**, Nacogdoches County, a nail in the center of a tie 50 meters (164 feet) east of a lone oak tree in the north fence, and opposite a cornfield south of the track. (98.98 meters or 324.74 feet.)

R. R. B. M. 157.5.—About 1 mile west of **Garrison**, Nacogdoches County, the top of an upright rail in the ground near the track. (115.67 meters or 379.49 feet.)

At **Garrison**, Nacogdoches County, top of rail. (117.38 meters or 385.10 feet.)

t 22.—About 0.6 mile east of **Garrison**, Nacogdoches County, a nail in the center of a tie, between two houses across the track from each other and 100 meters (328 feet) west of cattle guard No. 153 D. (115.30 meters or 378.28 feet.)

t 21.—About 1.5 miles east of **Garrison**, Nacogdoches County, 0.1 mile west of a curve; a spike in the base of an oak tree in the south road fence just west of a cabin. (114.51 meters or 375.69 feet.)

t 20.—About 1.6 miles east of **Garrison**, Nacogdoches County, a 4 by 4 inch railroad iron opposite milepost 160. (109.54 meters or 359.38 feet.)

t 19.—About 2.2 miles east of **Garrison**, Nacogdoches County, a spike in a tie between two road crossings opposite a cotton gin. (99.38 meters or 326.05 feet.)

t 18.—About 1.2 miles west of **Gallagher**, Shelby County, a spike on the bridge over the **Attoyac River**, 16 feet west of the third barrel. (89.74 meters or 294.42 feet.)

t 17.—About 0.7 mile west of **Gallagher**, Shelby County, a spike in an embedded tie opposite the sign "Deadening." (92.68 meters or 304.07 feet.)

t 16.—At **Gallagher**, Shelby County, a spike in the signal post at the north-east quarter of the crossing. (106.18 meters or 348.36 feet.)

t 4.—About 3.5 miles west of Timpson, Shelby County, the top of the east spike in the north end of the cap in the northwest corner of bridge No. 163D. (110.81 meters or 363.55 feet.)

t 3.—About 2.5 miles west of Timpson, Shelby County, a spike in a tie, 40 feet east of milepost 146 A. (112.04 meters or 367.58 feet.)

t 2.—About 1.8 miles west of Timpson, Shelby County, about 25 yards east of milepost 165; a staple in a small oak stump 45 feet west of a pile of ties, on a curve. (119.39 meters or 391.70 feet.)

t 1.—About 0.9 mile west of Timpson, Shelby County, a circle on a small boulder west of a stump. (126.31 meters or 414.40 feet.)

At Timpson, Shelby County, top of rail. (121.96 meters or 400.13 feet.)

t 5.—About 0.2 mile east of Timpson, Shelby County, the top of an abandoned rail. (119.55 meters or 392.22 feet.)

t 6.—About 1 mile east of Timpson, Shelby County, a spike in the center of a tie 150 feet east of milepost 168. (113.20 meters or 371.39 feet.)

t 7.—About 2 miles east of Timpson, Shelby County, a spike in an oak stump 200 meters (656 feet) west of milepost 169. (110.54 meters or 362.66 feet.)

t 8.—About 1.4 miles west of Bobo, Shelby County, a spike in the center of a tie 25 feet east of milepost 170A. (91.77 meters or 301.08 feet.)

t 9.—About 0.8 mile west of Bobo, Shelby County, a spike in the center of a tie 80 meters (262 feet) east of cattle guard No. 170G. (88.45 meters or 290.19 feet.)

t 15.—About 0.5 mile east of Bobo, Shelby County, a spike in a tie 200 meters (656 feet) east of milepost 172. (100.59 meters or 330.02 feet.)

t 14.—About 1.1 miles east of Bobo, Shelby County, a spike in the center of an embedded tie 100 meters (328 feet) west of cattle guard No. 172D and an oblique road crossing. (87.70 meters or 287.73 feet.)

t 13.—About 1.8 miles east of Bobo, Shelby County, a spike in a tie 190 meters (623 feet) west of a large bridge. (90.40 meters or 296.59 feet.)

R. R. B. M. 174.—About 2 miles east of Bobo, Shelby County, the top of an upright rail in the ground near the track at milepost 174. (102.06 meters or 334.84 feet.)

t 12.—About 2.5 miles west of Tenaha, Shelby County, a spike in a tie 10 yards east of milepost 174B. (104.56 meters or 343.04 feet.)

R. R. B. M. 175.—About 1.6 miles west of Tenaha, Shelby County, the top of an upright rail in the ground near the track at milepost 175. (89.83 meters or 294.72 feet.)

t 11.—About 1.5 miles west of Tenaha, Shelby County, a spike in a tie 60 feet east of a tall pine tree. (93.70 meters or 307.41 feet.)

t 10.—About 0.8 mile west of Tenaha, Shelby County, a spike in a tie 60 meters (197 feet) west of a whistling post. (98.06 meters or 321.72 feet.)

At Tenaha, Shelby County, top of rail. (108.84 meters or 357.09 feet.)

222.—About 0.7 mile east of Tenaha, Shelby County, a spike in the base of milepost 177. (104.87 meters or 344.06 feet.)

223.—About 1.7 miles east of Tenaha, Shelby County, a spike in the first telegraph pole west of milepost 178. (105.88 meters or 347.37 feet.)

224.—About 2.5 miles east of Tenaha, Shelby County, a spike in the eighth telegraph pole west of milepost 179. (95.88 meters or 314.57 feet.)

225.—About 0.9 mile west of Paxton, Shelby County, a spike in the ninth telegraph pole east of milepost 180. (99.92 meters or 327.82 feet.)

227.—About 1.1 miles east of Paxton, Shelby County, a spike in the ninth telegraph pole east of milepost 182. (99.03 meters or 324.90 feet.)

228.—About 1.8 miles east of Paxton, Shelby County, a spike in the base of the fifth telegraph pole west of milepost 183. (96.80 meters or 317.58 feet.)

230.—About 3.3 miles west of Joaquin, Shelby County, a spike in the fourth telegraph pole west of milepost 185. (80.90 meters or 265.42 feet.)

231.—About 2.3 miles west of Joaquin, Shelby County, a spike in the seventh telegraph pole west of milepost 186. (79.30 meters or 240.49 feet.)

At Joaquin, Shelby County, top of rail. (66.46 meters or 218.04 feet.)

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