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Supreme Court of the United States

OCTOBER TERM, 1936

No. 2, Original

(290 U. S. 579)

THE STATE OF VERMONT, ORATRIX,

vs.

THE STATE OF NEW HAMPSHIRE, DEFENDANT

REPORT OF SPECIAL COMMISSIONER APPOINTED TO LOCATE AND
MARK THE BOUNDARY BETWEEN THE STATE OF VERMONT AND
THE STATE OF NEW HAMPSHIRE AT THE POINTS SPECIFIED
HEREIN.

SAMUEL S. GANNETT,
Special Commissioner.

WASHINGTON, D. C., *November 16, 1936.*

PRESS OF JUDD & DETWEILER, INC., WASHINGTON, D. C.

SUPREME COURT OF THE UNITED STATES

OCTOBER TERM, 1936

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THE STATE OF VERMONT, ORATRIX,

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SUPREME COURT OF THE UNITED STATES

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To the Honorable Chief Justice and the Associate Justices
of the Supreme Court of the United States:

I, Samuel S. Gannett, Washington, D. C., Special Commissioner appointed under decree of the Court rendered January 8, 1934, and supplemental decree of May 18, 1936 to locate and mark upon the ground the boundary between the State of Vermont and the State of New Hampshire at the points specified herein, have the honor to submit the following report with accompanying diagrams.

SUPREME COURT OF THE UNITED STATES

OCTOBER TERM, 1933

No. 2, Original

THE STATE OF VERMONT,

vs.

THE STATE OF NEW HAMPSHIRE

DECREE.

(January 8, 1934.)

This cause, having been submitted upon the pleadings, proofs and exhibits, and upon the report of the Special Master, and having been argued by counsel, and this Court, on May 29, 1933, having rendered its opinion sustaining the findings of the Special Master as to the location of the true boundary line between the two States, parties hereto,

It is Ordered, Adjudged and Decreed:

First. That the boundary line between the State of Vermont and the State of New Hampshire is hereby established as a line beginning at the apex of the granite monument which marks the southeast corner of Vermont and the southwest corner of New Hampshire, erected in 1897 under the supervision of Commissioners of the two States, at low water mark on the west side of the Connecticut River and extending thence northerly along the western side of the river at low water mark, as the same is or would be if unaffected by improvements on the river, to the southerly line of the Town of Pittsburgh, New Hampshire. Such low water mark is hereby defined as the line drawn at the point to which the river recedes at its lowest stage, without reference to, and unaffected by extreme droughts, but subject to such changes as may hereafter be effected by erosion or accretion.

Second. That such boundary line at low water mark shall forthwith be definitely located and marked on the ground, as hereinafter provided, at named points on said boundary line, on the western side of the Connecticut

River, which points have been selected and agreed upon by stipulation entered into by the parties hereto, pursuant to order of this Court of October 10, 1933, as follows:

1. The monument marking the southwest corner of New Hampshire and southeast corner of Vermont, commonly called the "Mud Turtle" and the Brattleboro-Dummerston, Vermont town line.
2. The Walpole, New Hampshire-Westminster, Vermont Bridge.
3. The Westminster-Rockingham Vermont town line and a point one hundred (100) feet north of the Cheshire bridge (Charlestown, N. H.-Springfield, Vt.).
4. The Claremont-Ascuteyville Bridge (Claremont, N. H.-Weathersfield, Vt.).
5. The Boston & Maine Railroad Bridge (Cornish, N. H.-Windsor, Vt.).
6. The Cornish Toll Bridge (Cornish, N. H.-Windsor, Vt.).
7. A point five hundred (500) feet south of the Sumner's or Water Quechee Falls Canal (Plainfield, N. H.-Hartland, Vt.) and a point five hundred (500) feet north of said canal.
8. The Boston & Maine Railroad Bridge (Lebanon, N. H.-Hartford, Vt.).
9. The Lyman Bridge (Lebanon, N. H.-Hartford, Vt.).
10. A point one thousand (1000) feet south of the Wilder Dam (Lebanon, N. H.-Hartford, Vt.) and a point one thousand (1000) feet north of the Ledyard Bridge (Hanover, N. H.-Norwich, Vt.).
11. The Gilbert Bridge (Lyme, N. H.-Thetford, Vt.).
12. The Lyme-Northboro Bridge (Lyme, N. H.-Thetford, Vt.).
13. The Orford Bridge (Orford, N. H.-Fairlee, Vt.).
14. The Piermont Bridge (Piermont, N. H.-Bradford, Vt.).
15. The Bedell Bridge (Haverhill, N. H.-Newbury, Vt.).
16. The Keyes Steel Highway Bridge (Haverhill, N. H.-Newbury, Vt.).
17. A point one hundred (100) feet south of Hales or Howard Island (Haverhill, N. H.) and the point of the "Narrows" (Bath, N. H.-Ryegate, Vt.).
18. A point one thousand (1000) feet south of the Ryegate Paper Company's dam (Bath, N. H.-Ryegate, Vt.),

and a point one hundred (100) feet north of the Moses Blake Ferry (Dalton, N. H.-Lunenburg, Vt.).

19. The South Lancaster Bridge (Lancaster, N. H.-Lunenburg, Vt.).
20. The North Lancaster Bridge (Lancaster, N. H.-Guildhall, Vt.).
21. The Maine Central Railroad Bridge (Lancaster, N. H.-Guildhall, Vt.).
22. A point five hundred (500) feet south of the Wyoming Paper Company or Hall & Richter Paper Company dam (Northumberland, N. H.-Guildhall, Vt.) and a point opposite the mouth of the Upper Ammonoosuc River (Northumberland, N. H.).
23. The Stratford Hollow Bridge (Stratford, N. H.-Maidstone, Vt.).
24. The Maine Central Railroad Bridge, Stratford, N. H.-Brunswick, Vt.), and a point five thousand (5000) feet north of Lyman Falls Power Company's dam (Columbia, N. H.-Bloomfield, Vt.).
25. The Columbia Bridge (Columbia, N. H.-Lemington, Vt.) and a point two thousand (2000) feet north of said bridge.
26. The Colebrook Bridge (Colebrook, N. H.-Lemington, Vt.).
27. The Colebrook-Stewartstown, N. H. town line, and the Canaan, Vt., Pittsburg, N. H. town line.
28. The northeast corner of Vermont.
29. All dams, bridges and ferries.

Third. Samuel S. Gannett, Esq., is hereby appointed Special Commissioner to locate and mark upon the ground the boundary line, at the points specified herein, and to make record of the point so marked with all convenient speed. The reasonable compensation and expenses of the Commissioner, as allowed by this Court, and all other costs incident to the location and marking of such boundary line and making record thereof as provided herein shall be paid by the two States, in equal shares.

Fourth. Before entering upon the discharge of his duties, the Commissioner shall be duly sworn to perform fairly, impartially, and without prejudice or bias the duties imposed upon him, said oath to be taken before the Clerk of this Court, or before the Clerk of the District Court of the United States for the District of the said Commis-

sioner's residence, or for the District of New Hampshire, or for the District of Vermont, and returned with his report. The Commissioner is authorized to adopt all usual and reasonable methods to ascertain the true location of the said boundary line, including reference to the record, transcript and evidence in this cause, and the taking of new evidence, oral or documentary, under oath; but in the event new evidence is taken the parties shall be notified and permitted to be present and cross-examine the witnesses; and all evidence taken by the Commissioner, and all exceptions thereto, and action thereon, shall be preserved and certified and returned with his report. The Commissioner shall mark the points upon the boundary line as designated herein with permanent monuments, erected by him or under his direction, and wherever he shall deem it necessary or desirable to do so such monuments may be established upon the fast upland and shall be suitably inscribed to indicate by distances and courses therefrom the point on the boundary line as it is fixed at the time of the erection of such monument. He shall, upon completion of the location and marking of such points on the boundary line, report to this Court, describing the several monuments established, and their location and their distances and courses to the boundary, and his determinations shall be subject in all respects to the approval of this Court. A copy of his report shall be promptly delivered to the Clerk of this Court and to the Attorneys General of the two States, and exceptions or objections, if any, to such report shall be presented to this Court, or, if it is not in session, filed with the Clerk within forty (40) days after the delivery of such report. On approval by this Court of such report, the Commissioner shall be discharged.

Fifth. In the event that either State shall hereafter desire additional points on the boundary line to be located and marked, or any points to be relocated and remarked where the boundary has been affected by erosion or accretion, this Court will, upon application, appoint a Commissioner for the purpose.

Sixth. The State of Vermont, its officers, agents and representatives, its citizens, and all other persons, are perpetually enjoined from disputing the sovereignty, jurisdiction and dominion of New Hampshire over the territory adjudged to her by this decree; and the State of New Hampshire, its officers, agents and representatives, its citi-

zens, and all other persons, are perpetually enjoined from disputing the sovereignty, jurisdiction and dominion of Vermont over the territory adjudged to her by this decree.

Seventh. The costs of this suit will be equally divided between the States, and this case is retained on the docket for further orders, in fulfillment of the provisions of this decree.

By the Court.

SUPREME COURT OF THE UNITED STATES, OCTOBER TERM, 1935

No. 2 Original

THE STATE OF VERMONT, Oratrix,

vs.

THE STATE OF NEW HAMPSHIRE, Defendant

APPLICATION FOR APPOINTMENT OF COMMISSIONER TO MARK ADDITIONAL PARTS OF BOUNDARY

The State of Vermont and the State of New Hampshire desiring to have additional points on the boundary line between said two States located and marked apply to this Honorable Court for appointment of Samuel S. Gannett, Esq., as Special Commissioner for the purpose of locating and definitely marking by monuments, with proper inscriptions, those parts of the boundary line of said two States which are at or lie between the following points, viz:

1. The Vernon Pond, so called, opposite an Island (Id 100 on Map).
2. The Vernon Pond, so called, opposite an Island (Id 99 on Map).
3. A point approximately half way between the Boston and Maine Railroad Bridge (Br 41 on Map) and the Brattleboro-Hinsdale Highway Bridge (Br 39 on Map).
4. A point approximately 1.5 miles North of Bellows Falls-North Walpole Highway Bridge (Br 34 on Map).
5. The mouth of the Passumpsic River.
6. The site of Upper Development of Fifteen Miles Falls.
7. The New Waterford-Littleton Highway Bridge.
8. A point on the Will Dodge Farm.
9. The Old Ferry Site and Cut-off (CO 5 on Map).

10. Cut-off (CO 4 on Map) Northerly of Maidstone-Guildhall Town Line.

11. A point on the Tillotson Farm (M 17 on Map).

12. A point opposite Masons Island one-half mile north of Maine Central Railroad Bridge (Br 8 on Map).

13. A point opposite Hinmans Islands (Id 17 and Id 18 on Map).

14. A point opposite Ed Daleys Island (Id 12 on Map).

15. The Columbia-Lemington Bridge (Br 5 on Map).

16. A point opposite A. Daleys Island (Id 8 on Map).

17. A point opposite the Cut-off (CO 3 on Map) one mile South of Colebrook-Lemington Bridge (Br 4 on Map).

18. A point opposite the terminus Colebrook-Stewartstown Town line.

19. A point opposite the Cut-off (CO 2 on Map).

20. A point opposite the Cut-off (CO 1 on Map).

21. A point at Bend in River (C 46 on Map) one mile south of Canaan, Vermont.

22. A point opposite an Island (Id 7 on Map).

23. The Mouth of Hall's Stream.

Said two States desiring to have monuments affected by the flood waters of March, 1936, re-located apply to this Honorable Court for the appointment of Samuel S. Gannett as Special Commissioner to re-locate monuments, with proper inscriptions, marking the boundary line of said two States at the following points, to wit:

1. The Walpole, N. H.-Westminster, Vt. Bridge.

2. The Piermont Bridge (Piermont, N. H.-Bradford, Vt.).

STATE OF VERMONT,
By LAWRENCE C. JONES,
Its Attorney-General;

WARREN R. AUSTIN,
Of Counsel.

STATE OF NEW HAMPSHIRE,
By THOMAS P. CHENEY,
Its Attorney-General;

JEREMY R. WALDRON,
Of Counsel.

(Granted May 18, 1936.)

METHODS OF SURVEY

Field work of running, locating and marking the boundary line was begun early in May, 1934, temporarily discontinued September 28, 1934, upon the sudden death of the chief of field party, E. L. McNair; resumed in May, 1936, and completed in August, 1936.

The "Mud Turtle" monument at the southeast corner of Vermont and southwest corner of New Hampshire, and on the Massachusetts state line, built in 1895 and 1897, furnished the initial point from which to begin the survey.

This monument is described in records of the case, Respondent's Exhibit XVII, and photographs, Oratrix' book of photographs, VIII, IX, X, No. 186, Respondent's Exhibit K 154. The figures of latitude and longitude are cut on the large reference monument shown in Oratrix photograph No. 184, latitude $42^{\circ} 43' 37.2''$, longitude $72^{\circ} 27' 32.1''$, with distance 582 feet, and true bearing $S 87^{\circ} 46' 45'' E$ from reference monument to "Mud Turtle" monument.

A careful third order transit traverse reference line, with the large monument at the southeast corner of Vermont and southwest corner of New Hampshire, as the initial point, was run along the railroads and highways nearest the Connecticut River and terminated at the northeast corner of Vermont.

This traverse line was referred to the true meridian by observations on Polaris, taken at fifty localities, or at intervals of about four miles. Distances were measured with a steel tape, three hundred feet in length, under a tension of twenty pounds.

Angles at stations along the traverse line were measured at least four times with a transit having a circle $6\frac{1}{2}$ inches in diameter, reading by two verniers to thirty seconds of arc.

All bearings given in descriptions of boundary reference monuments and on the diagrams are true and not magnetic.

The geographic position of the initial point, the "Mud Turtle Monument," given in the record as latitude $42^{\circ} 43' 37.2''$, longitude $72^{\circ} 27' 32.1''$, old North American datum, was accepted, and the transit traverse line was tied to several triangulation stations of the U. S. Coast and Geodetic Survey; viz. Stowell, Vt., Observatory Hill at Hanover, N. H., Newbury Church Spire, Vt., and Wells River Church

Spire, Vt., and to U. S. Geological Survey stations Ascutney (South), Vt., Prospect Hill, Lancaster, N. H., and North Stratford, N. H., and to boundary monument No. 519 of the International Boundary Commission, United States, Alaska and Canada, near Beecher Falls, Vt.

Total length of the reference line for the boundary line surveyed in 1934 and 1936, 206 miles.

GEODETIC DATUM.

The geodetic positions of all monuments have been computed on old North American datum so as to agree with the figures of latitude and longitude as actually cut in the large reference monument near the "Mud Turtle Monument" at the southeast corner of Vermont and southwest corner of New Hampshire and with the datum of boundary monument No. 519, published in report of the International Boundary Commission, United States and Canada.

To reduce these values to the 1927 North American datum, a correction of 0.48" should be subtracted from latitude and 0.00" from longitude of Mud Turtle Monument.

To reduce geodetic position of International Boundary Monument 519 or position of northeast corner of Vermont from old North American datum to 1927 North American datum 0.45" should be subtracted from old value of latitudes and 0.29" subtracted from old value of longitudes.

A point can have only one position in latitude and longitude. If the latitudes and longitudes of boundary monuments or points on a State line are determined by being connected to the triangulation and traverse stations, the monuments or points are sure of perpetuation, for even though they and the adjacent triangulation or traverse stations are destroyed, both can be restored from distant marks. The boundary points on the Vermont-New Hampshire state line described in this report have definite computed latitudes and longitudes and will, therefore, never be lost.

TABLE NO. 1

GIVING CORRECTIONS IN DECIMALS OF A SECOND OF LATITUDE AND LONGITUDE TO REDUCE POSITIONS OF TRIANGULATION STATIONS AND BOUNDARY MONUMENTS FROM OLD NORTH AMERICAN DATUM TO THE 1927 NORTH AMERICAN DATUM.

Station	Latitude	Longitude	
Mud Turtle Monument.....	42°43' 37.21"	72°27' 32.08"	Old N.A.D.
	42 43 36.73	72 27 32.08	1927 N.A.D.
Correction from Old N.A.D. to 1927 N.A.D... Near Monuments Nos. 0 and 1.	-0.48	0.00	
Reference Monument No. 1.....	42°43' 37.43"	72°27' 39.87"	Old N.A.D.
	42 43 36.95	72 27 39.87	1927 N.A.D.
Correction from Old N.A.D. to 1927 N.A.D... Line Marker No. 1 also near Monuments Nos. 1, 2, 3, and 4. Diagrams Nos. 1, 2, and 3.	-0.48	0.00	
Stowell U. S. Coast and Geodetic Survey triangulation station.....	43°09' 59.01"	72°29' 31.39"	Old N.A.D.
	43 09 58.53	72 29 31.42	1927 N.A.D.
Correction from Old N.A.D. to 1927 N.A.D... Near Line Marker No. 3 also near Monuments Nos. 10, 11, 12, 13, 14, 15, and 15-A, near Diagrams Nos. 11, 12, 13, and 14.	-0.48	+0.03	
Ascutney South; U. S. Geological Survey triangulation station.....	43°26' 37.73"	72°27' 17.34"	Old N.A.D.
	43 26 37.22	72 27 17.30	1927 N.A.D.
Correction from Old N.A.D. to 1927 N.A.D... Near Monuments Nos. 17 and 18. Near Diagrams 16 and 17.	-0.51	-0.04	
Ascutney U. S. Coast and Geodetic Survey triangulation station.....	43°26' 46.74"	72°27' 08.48"	Old N.A.D.
	43 26 46.23	72 27 08.44	1927 N.A.D.
Correction from Old N.A.D. to 1927 N.A.D... Near Monuments Nos. 17 and 18. Near Diagrams 16 and 17.	-0.51	-0.04	
Hanover, N. H. Observatory Hill triangulation station of the U. S. Coast and Geodetic Survey.....	43°42' 19.79"	72°17' 08.07"	Old N.A.D.
	43 42 19.27	72 17 07.93	1927 N.A.D.
Correction from Old N.A.D. to 1927 N.A.D... Near Monuments Nos. 22, 23, 24, 25, 26, 27, and 28. Near Diagrams Nos. 20, 21, 22, 23, and 24.	-0.52	-0.14	
Hanover, N. H. College Church triangulation station of U. S. Coast and Geodetic Survey..	43°42' 15.51"	72°17' 22.70"	Old N.A.D.
	43 42 14.99	72 17 22.55	1927 N.A.D.
Correction from Old N.A.D. to 1927 N.A.D... Near Monuments Nos. 22, 23, 24, 25, 26, 27, and 28. Near Diagrams Nos. 20, 21, 22, 23, and 24.	-0.52	-0.15	
Newbury Church Tower triangulation station of U. S. Coast and Geodetic Survey.....	44°04' 45.79"	72°03' 33.30"	Old N.A.D.
	44 04 45.25	72 03 33.12	1927 N.A.D.
Correction from Old N.A.D. to 1927 N.A.D... Near Monuments Nos. 34 and 35. Near Diagrams Nos. 30 and 31.	-0.54	-0.18	

TABLE NO. 1—Continued

Station	Latitude	Longitude	
Newbury Square Sharp Church Spire.....	44°04' 47.35"	72°03' 25.37"	Old N.A.D.
	44 04 46.82	72 03 25.20	1927 N.A.D.
Correction from Old N.A.D. to 1927 N.A.D....	-0.53	-0.17	
Near Monuments Nos. 34 and 35. Near Diagrams Nos. 30 and 31.			
Wells River Church White Spire triangulation station of U. S. Coast and Geodetic Survey..	44°09' 04.24"	72°02' 42.05"	Old N.A.D.
	44 09 03.71	72 02 41.87	1927 N.A.D.
Correction from Old N.A.D. to 1927 N.A.D....	-0.53	-0.18	
Near Monuments Nos. 37, 38, 38-A, and 39. Near Diagrams Nos. 32, 33, and 34.			
Prospect Hill near Lancaster, N. H. triangulation station of U. S. Geological Survey.....	44°27' 04.07"	71°34' 18.16"	Old N.A.D.
	44 27 03.57	71 34 17.94	1927 N.A.D.
Correction from Old N.A.D. to 1927 N.A.D....	-0.50	-0.22	
Near Monuments Nos. 52, 53, 54, 55, and 56. Near Diagrams Nos. 45, 46, 47, 48, and 49.			
North Stratford N.H. triangulation station of U. S. Geological Survey.....	44°45' 04.275"	71°37' 36.05"	Old N.A.D.
	44 45 03.80	71 37 35.80	1927 N.A.D.
Correction from Old N.A.D. to 1927 N.A.D....	-0.48	-0.25	
Near Monuments Nos. 67, 68, 69, 70, 71, and 72. Near Diagrams Nos. 58, 59, 60, 61.			
United States and Canada Boundary Monument No. 519.....	45°00' 48.53"	71°30' 21.28"	Old N.A.D.
	45 00 48.08	71 30 20.99	1927 N.A.D.
Correction from Old N.A.D. to 1927 N.A.D....	-0.45	-0.29	
Near Monuments Nos. 82, 83, 84, 85, 86, 87, 88, 89, 90, and 91. Near Diagrams Nos. 68, 69, 70, and 71.			

MONUMENTS

As localities to be marked were at low water mark on west side of the river, type of monument to be set, excepting when located at a few dams and bridges, was restricted to reference monuments erected on the west bank of the river out of reach of extreme high water.

These monuments were of light gray granite six and one half feet in length, most of them dressed twelve inches square on top, and from top down for a distance of twenty-four inches. In top face of each post a circular drill hole five inches in diameter, one half inch deep, with additional center drill hole three fourths inch in diameter, four inches deep, was made so that a bronze tablet five inches in diameter, with a stem four inches long, could be counter sunk and cemented.

The bronze tablets, dimensions specified above, were made of new ingot metal, 88% copper, 10% tin and 2% zinc.

The granite monuments weigh approximately 1200 pounds each, and the bronze tablets 3 pounds each.

Total number of marks set, 103, including 7 state line tablet markers.

ELEVATION DATUM OF BENCH MARKS AND MONUMENTS

Permanent bench marks of the U. S. Geological Survey and U. S. Coast and Geodetic Survey were tied to the transit traverse line and as their geographic positions were computed, they furnish more than 70 additional reference points near the boundary line.

These permanent bench marks also furnished vertical datum points from which elevations of all boundary reference monuments, State line markers and low water elevations of all boundary points were determined by running checked lines of 3d order spirit leveling.

Elevations adopted are by the 1929 general adjustment of the precise level net of the United States, and elevations of the U. S. Coast and Geodetic Survey bench marks and the U. S. Geological Survey bench marks to which boundary reference monuments were tied are those accepted at the time of the publication of this report, November 16, 1936. These elevations may be changed slightly by future adjustments of the level net.

Elevations of boundary reference monuments Nos. 82, 83, 84, 85, and 86 were determined by checked third order level lines from U. S. Geological Survey bench mark "H 29" at Canaan, Vermont, whose elevation, 1042.603 feet, was furnished by the U. S. Coast and Geodetic Survey October 17, 1936, and elevations of boundary reference monuments Nos. 87, 88, and 89, and line marker No. 7 were obtained by checked level lines from the U. S. Coast and Geodetic Survey bench mark "U 13" at Beecher Falls, Vermont.

Adopted elevation of U 13—1097.032 feet, October 17, 1936.

GAGING STATIONS

Records of gaging stations at Vernon Dam, Bellows Falls Dam, Cheshire Bridge, Ascutney Bridge, Windsor Bridge, White River Jct., Wilder Dam, Hanover Bridge, Thetford Bridge, Orford Bridge, South Newbury, Wells River Bridge, McIndoes Bridge, Fifteen Mile Falls Pond, Waterford and Bloomfield were available and were of considerable assistance in determining the low water mark on the west side of the Connecticut River. These records were supplemented when necessary by soundings across the river at places where reference monuments were set in 1934 and 1936.

It may be pertinent to note that, since the completion of the great Comerford hydro-electric plant at Fifteen Mile Falls, as well as due to other dams across the river at Vernon, Bellows Falls, Wilder, East Ryegate, McIndoes, Gilman, Guildhall, Lyman, Canaan and Connecticut Lakes, the discharge of the River is almost completely controlled and the original low water line on the west side of the river is therefore extremely difficult to determine. All maps, photographs and testimony filed in the case were carefully studied before a State line point was finally selected after a personal inspection, and without prejudice or bias for any given locality.

Defendant's Exhibit F, map of the Connecticut River from the northeast corner of Vermont, southward to the southeast corner of Vermont and southwest corner of New Hampshire, scale 200 feet to the inch, was especially useful in selecting points specified in the supplemental decree of May 18, 1936.

PERSONNEL

The instrumental work of 1934 along the disputed Vermont-New Hampshire boundary line in the Connecticut River Valley, was done by E. L. McNair, geodetic engineer, chief of field party, for more than 35 years an employee of the United States Department of the Interior Geological Survey. Mr. McNair was also chief of field party in the survey and monumenting of the 100th Meridian boundary between Oklahoma and Texas in 1928, also chief of field

party in the locating and marking the boundary between the state of New Mexico and the State of Texas in the Valley of the Rio Grande in 1929 and 1930, likewise chief of field party in the locating and marking the disputed boundary between Louisiana and Mississippi in 1932. His sudden untimely death in September 1934, besides being a severe loss to the Vermont-New Hampshire Boundary Commission, was also a great personal loss to your Special Commissioner.

The instrumental work of 1936 for the completion of the survey and marking the disputed Vermont-New Hampshire boundary line was done by Major C. B. Kendall, Geodetic engineer, chief of field party, for more than 30 years an employee of the United States Department of the Interior Geological Survey.

Major Kendall was also in immediate charge of the office computations of geodetic positions of reference monuments and state line points from January 1, 1936 to the middle of September, 1936.

Engineering assistants were M. H. Harris, Joseph C. Terry, Charles J. Dube, Jr., Deane E. Hawkins, W. H. S. Morey, Jr.

ACKNOWLEDGMENTS

Acknowledgment is due the New England Power Association for various blue prints, gage records, and bench mark records for Vernon Dam, Bellows Falls, McIndoes, Lower Development of the 15 Mile Falls, and for similar data for other points along the River.

To the New England Public Service Company for various blue print diagrams showing conditions at and near Canaan, Vermont, and West Stewartstown, New Hampshire. To the Department of the Interior, United States Geological Survey, for use of instruments and topographic maps used in the field. The topographic maps were especially useful on reconnaissance work of the Boundary Commission.

To the Department of Commerce, United States Coast and Geodetic Survey, for triangulation and leveling data; to the International Boundary Commission, United States, Alaska and Canada, for reports, maps and triangulation data, and to the property owners along the line for the privilege of setting monuments on their land.

WARWICK QUADRANGLE, VERMONT-NEW HAMPSHIRE-
MASSACHUSETTS

Monument O. Diagram No. 1.

The Mud Turtle Monument at southwest corner of New Hampshire and southeast corner of Vermont on the north line of Massachusetts, is marked by a copper bolt in top of a block of granite set in a mass of concrete 6 feet square at low water mark on west side of the Connecticut River. The letters MASS are cut on south face VT on west face 1895 on north face, and N H on east face. Elevation top of bolt, 177.017 feet

Latitude $42^{\circ} 43' 37.21''$ Longitude $72^{\circ} 27' 32.08''$

Vermont-New Hampshire-Massachusetts Reference Monument, Diagram No. 1. Boundary Reference Monument No. 1

A witness mark of polished granite 2 feet square, 12 feet long, set 6 feet in ground stands on the Massachusetts-Vermont line 582 feet N. $87^{\circ} 47'$ W. from the above-described corner, and inscribed in part as follows: "The South West Corner of New Hampshire & the South East Corner of Vermont is a point on the West Bank of the Connecticut River in said Line now marked by a copper bolt in the apex of a Granite Monument North Latitude $42^{\circ} 43' 37.2''$, West Longitude $72^{\circ} 27' 32.1''$ S. $87^{\circ} 46' 45''$ E. 582 feet from center of this marker"

Latitude $42^{\circ} 43' 37.43''$ Longitude $72^{\circ} 27' 39.87''$

**U. S. Coast and Geodetic Survey Bench Mark "X 5 1927".
Near Diagram No. 1**

East Northfield, Franklin County, Massachusetts, in village of, about 350 feet north of the Boston and Maine Railroad station, 37.1 feet southeast of a granite monument on the Massachusetts-Vermont Boundary and 35.6 feet east of east rail. A standard U. S. Coast and Geodetic Survey disk stamped "X 5 1927," and set in top of concrete post. Elevation 262.634 feet

Latitude $42^{\circ} 43' 37.35''$ Longitude $72^{\circ} 27' 45.04''$

WARWICK QUADRANGLE, VERMONT-NEW HAMPSHIRE-
MASSACHUSETTS—Continued

Standard Monument on the Vermont-Massachusetts State line (1896)

Latitude $42^{\circ} 43' 37.57''$ Longitude $72^{\circ} 27' 44.62''$

**U. S. Coast and Geodetic Survey Bench Mark "C 4 1927".
Near Diagram No. 1**

In Windham County, Vermont, about 300 yards north of Boston and Maine Railroad station, at East Northfield, Franklin County, Massachusetts, about 100 yards north of water tank, and 135 feet east of east rail of main track. A standard U. S. Coast and Geodetic Survey disk stamped "C 4 1927," and set in top of a concrete post. Elevation 262.198 feet.

Latitude $42^{\circ} 43' 43.18''$ Longitude $72^{\circ} 27' 46.76''$

WARWICK QUADRANGLE, VERMONT-NEW HAMPSHIRE-
MASSACHUSETTS

Boundary Reference Tablet No. 2. Diagram No. 2

South Vernon Station, Windham County, Vermont, about 0.75 mile northeast of, at southwest end of Boston and Maine Railroad bridge across the Connecticut River, on south end of concrete abutment, 5.3 feet south of south rail, set in top of concrete abutment; bronze tablet stamped "Number 2-135 feet N. 45° 33' E." Elevation 244.804 feet. State line point is 135 feet N. 45° 33' E. from center of marker

Latitude 42° 44' 10.80" Longitude 72° 27' 50.98"

Vermont-New Hampshire State line point, low water elevation 177 feet

Latitude 42° 44' 11.73" Longitude 72° 27' 49.69"

Boundary Reference Monument No. 3

South Vernon Station, Windham County, Vermont, about 0.6 mile northeast of, about 680 feet east of Vermont Central Railroad, near southeast corner of a field owned by A. A. Dunklee, 525 feet southwest of southwest end of Boston and Maine Railroad bridge over Connecticut River, on top of bank which breaks toward the river, inside brush line at east edge of field. A granite post 6.7 feet long and 12 inches square set 5 feet in ground. The part above ground is dressed to 10 inches square. Bronze tablet set in top and stamped "Number 3-660 ft. N. 45° 33' E." Elevation 257.978 feet. State line point is 660 feet N. 45° 33' E. from center of marker

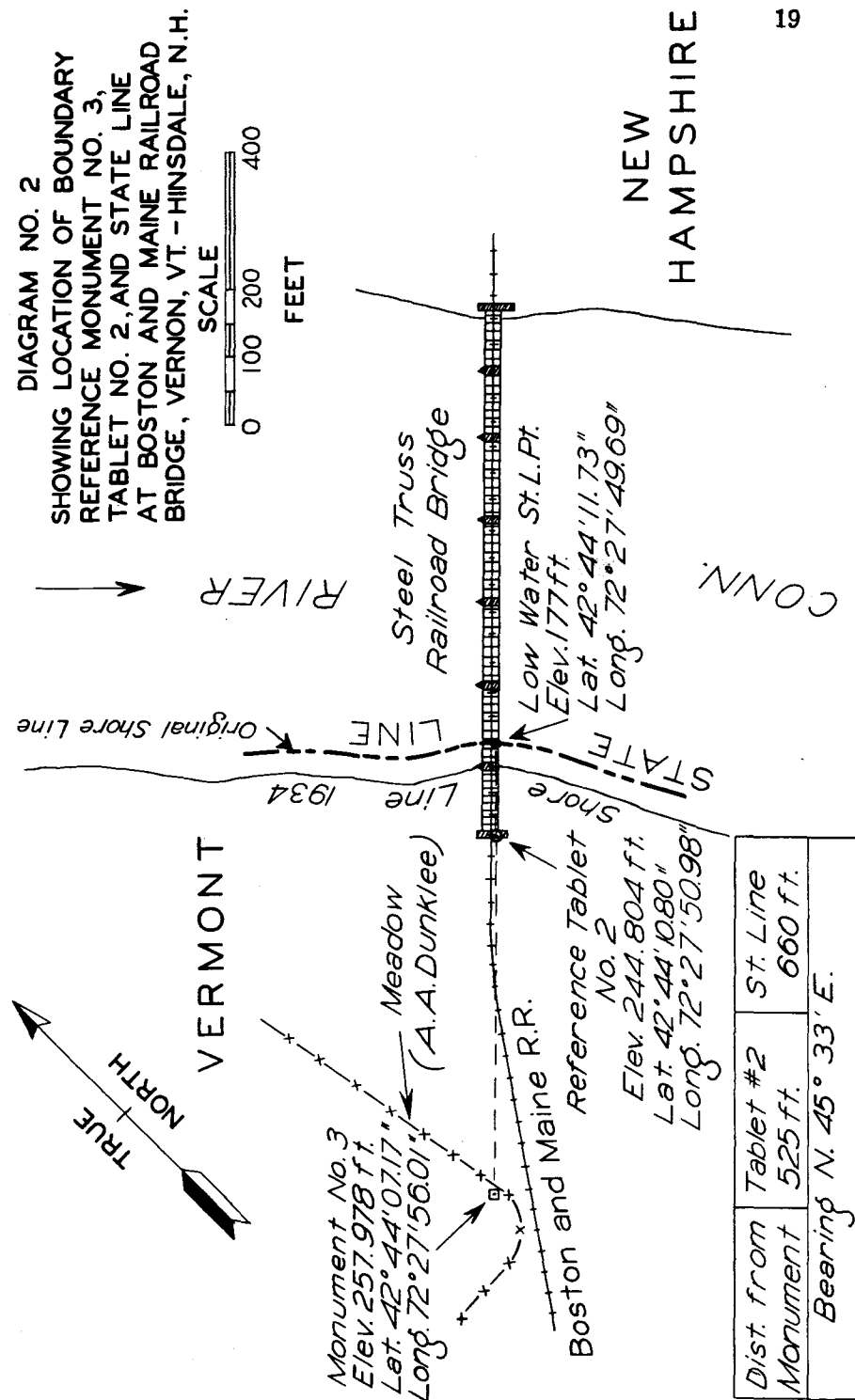
Latitude 42° 44' 07.17" Longitude 72° 27' 56.01"

Vermont-New Hampshire State line point, low water elevation 177 feet

Latitude 42° 44' 11.73" Longitude 72° 27' 49.69"

Boston and Maine Railroad bridge; chiseled cross on south end of northeast abutment of (point is in New Hampshire)

Latitude 42° 44' 16.20" Longitude 72° 27' 43.50"



BRATTLEBORO QUADRANGLE, VERMONT-NEW HAMPSHIRE

Boundary Reference Monument No. 4. Diagram No. 3

Brattleboro, Windham County, Vermont, 5.6 miles south of, at Vernon Dam, 138 feet west of northwest corner of power plant building within outdoor substation enclosure, 10 feet south of fence, in concrete block 19 inches square flush with surface of ground. Standard bronze reference mark tablet set in top and stamped "Number 4-250 feet S. 77° 12' E." Elevation 227.568 feet. State line point is 250 feet S. 77° 12' E. from center of marker

Latitude 42° 46' 18.35" Longitude 72° 30' 56.91"

Vermont-New Hampshire State Line Marker No. 1

Vernon Power Plant of New England Power Association, on north side of building and 112 feet east of northwest corner, 6 feet north of brick wall of building and 3.3 feet south of edge of concrete wall, 2.5 feet north of steps leading to level 8 feet lower, in concrete floor; bronze line marker stamped "Number 1"

Elevation of line marker, 232.103 feet. Elevation of low water State line point 180 feet

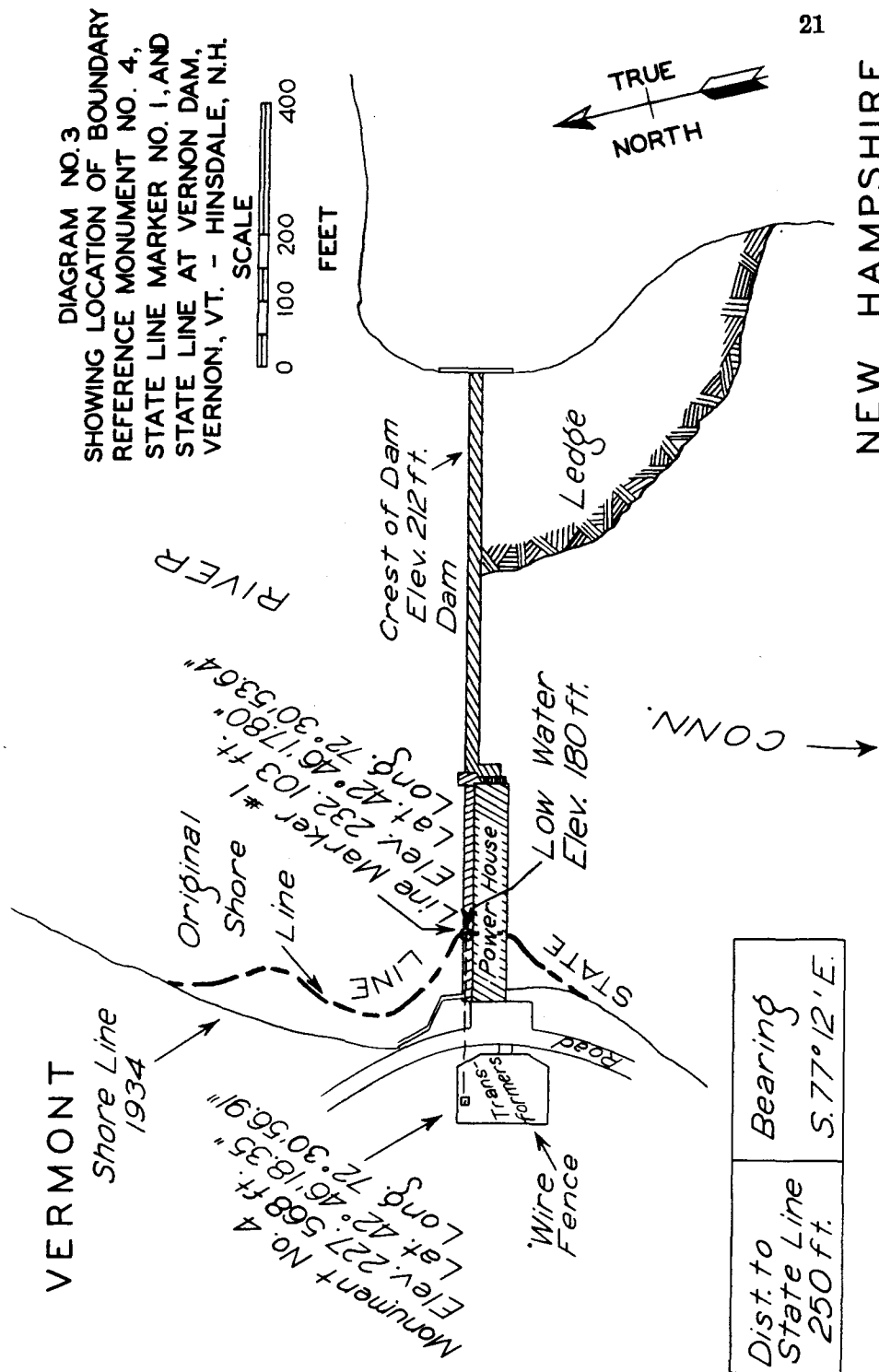
Latitude 42° 46' 17.80" Longitude 72° 30' 53.64"

See Connecticut River Power Company plan showing State Line Marker with reference to Vernon Power House, scale one inch equals 40 feet July 1914

U. S. Coast and Geodetic Survey Bench Mark "D 4 1927".
Near Diagram No. 3

Vernon, Windham County, Vermont, about 1.5 miles southeast of, along Central Vermont Railroad, opposite a farmhouse, 26.2 feet west of the west rail, in a large boulder. A standard U. S. Coast and Geodetic Survey disk stamped "D 4 1927." Elevation 300.902 feet

Latitude 42° 45' 40.80" Longitude 72° 30' 22.90"



BRATTLEBORO QUADRANGLE, VERMONT-NEW HAMPSHIRE

Boundary Reference Monument No. 4-A, Diagram No. 4

Opposite Island 100, Brattleboro, Windham County, Vt., 3.45 miles south of railroad station, along Brattleboro-Vernon highway; 0.9 mile south of concrete highway bridge over Broad Brook, 520 feet south of the summit of first hill south of Broad Brook highway bridge, 330 feet southeast of a cylindrical sheet iron watering place, 28 feet east of center of highway and 155 feet southwest of Central Vermont Railroad at a point 3.1 miles south of Brattleboro station, 4,568 feet south of railroad bridge over Broad Brook and nearly opposite milepost B-3, monument stands about midway between the east edge of highway and edge of bluff overlooking the Connecticut River and is about 10 feet west of the east edge of this bluff. The bluff is on level with the highway and is 40 feet above the railroad track. A granite post 6.7 feet long and 14 inches square set 4.7 feet in ground. The part above ground is dressed to 12 inches square. Bronze tablet set in top and stamped "Number 4A 270 ft. N. 54° 47' E. Elev. 281.188 feet". State line point is 270 feet N. 54° 47' E. from center of marker

Latitude 42° 48' 25.87" Longitude 72° 32' 34.81"

Vermont-New Hampshire State line point, low water elevation 190 feet.

Latitude 42° 48' 27.41" Longitude 72° 32' 31.85"

Boundary Reference Monument No. 4-B, Diagram No. 4

Opposite Island 99, Brattleboro, Windham County, Vt., 3.25 miles south of railroad station; along Brattleboro-Vernon highway, 0.7 mile south of concrete bridge over Broad Brook, 495 feet north of the summit of the first hill south of Broad Brook highway bridge, 685 feet north of a cylindrical sheet iron watering place 45 feet east of center of highway and 130 feet nearly west of Central Vermont Railroad at a point 2.9 miles south of Brattleboro station, 3,730 ft. south of bridge over Broad Brook, 780 feet north of milepost B-3 and about west of a rail rack on west side of track, monument stands about 25 feet from the north and east edges of a bluff overlooking the Connecticut River, the bluff at this monument is about 4 feet above the level of the road and 35 feet above the railroad track. A granite post 6½ feet long and 14 inches square set 4½ feet in ground. The part above ground is dressed to 12 inches square. Bronze tablet set in top and stamped "Number 4B 520 ft. N. 75° 06' E." Elev. 272.118 feet. State line point is 520 feet N. 75° 06' E. from center of marker

Latitude 42° 48' 35.14" Longitude 72° 32' 39.54"

Vermont-New Hampshire State line point, low water elevation 190 feet.

Latitude 42° 48' 36.46" Longitude 72° 32' 32.80"

BRATTLEBORO QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued**U. S. Coast and Geodetic Survey Bench Mark "E 4 1927".
Near Diagram No. 4**

Vernon, Windham County, Vermont, about 1.5 miles north of, along the Central Vermont Railroad, 37 feet north of center line of an old road and 17.9 feet west of west rail. A standard U. S. Coast and Geodetic Survey disk stamped "E 4 1927" and set in top of a concrete post. Elevation 272.293 feet

Latitude 42° 47' 36.52" Longitude 72° 31' 58.14"

**U. S. Coast and Geodetic Survey Bench Mark "F 4 1927".
Near Diagram No. 4**

Brattleboro, Windham County, Vermont, 2.25 miles south of station along the Central Vermont Railroad, at a bridge over Broad Brook, in west end of the north abutment and 21.9 feet west of west rail. A standard U. S. Coast and Geodetic Survey disk stamped "F 4 1927." Elevation 227.841 feet

Latitude 42° 49' 12.15" Longitude 72° 32' 45.58"

See Appendix For Diagram 4 Page 183

BRATTLEBORO QUADRANGLE, VERMONT-NEW HAMPSHIRE

Boundary Reference Monument No. 5. Diagram No. 5

Brattleboro, Windham County, Vermont, about 0.9 mile south of station in, between yard tracks of the Central Vermont Railroad and the main paved highway to Vernon, 16.6 feet west of west rail of nearest track, 7.2 feet east of edge of concrete road paving, 177 feet from northeast corner of Crosby Milling Company's mill, in grassy strip of land. A granite monument 6.7 feet long and 12 inches square set 4.8 feet in ground. The part above ground is dressed to 10 inches square. Bronze tablet set in top and stamped "Number 5-876 feet S. 61° 55' E." Elevation 227.540 feet. State line point is 876 feet S. 61° 55' E. from center of marker

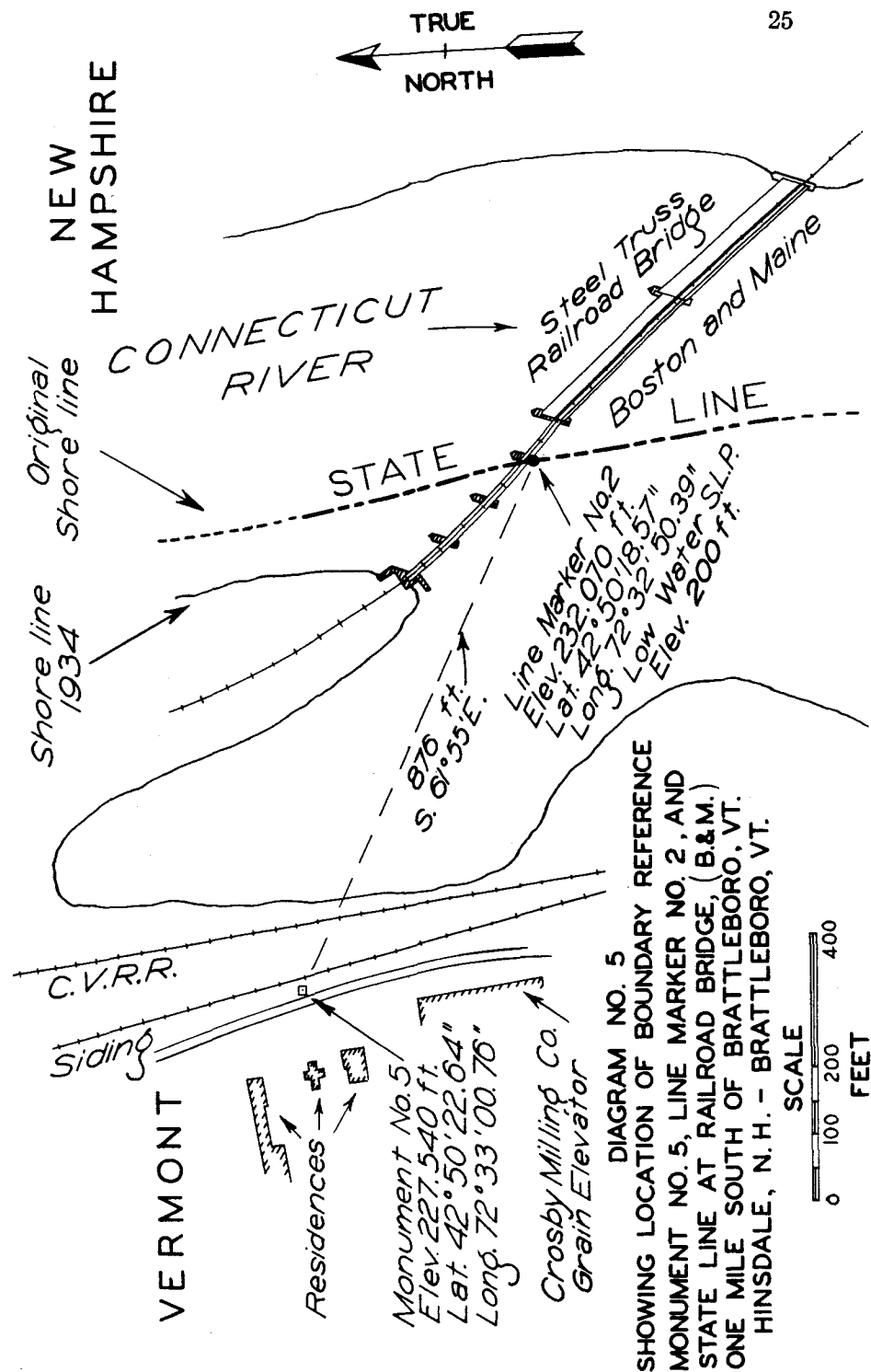
Latitude $42^{\circ} 50' 22.64''$ Longitude $72^{\circ} 33' 00.76''$

Vermont-New Hampshire State Line Marker No. 2.
Diagram No. 5

Brattleboro, Windham County, Vermont, about 1 mile south of station, at Boston and Main Railroad bridge over Connecticut River, on south end of first pier northwest of truss span, about 10 feet lower than track, in top course of stone. Bronze line marker tablet stamped "Number 2". Elevation of marker 232.070 feet. Elevation of low water State line point 200 feet

Latitude $42^{\circ} 50' 18.57''$ Longitude $72^{\circ} 32' 50.39''$

See drawing R 43 of Power Construction Company, Shelbourne Falls, Massachusetts. Connecticut River, Boston and Maine Railroad Round House to New Boston and Maine Railroad Bridge, Brattleboro, Vermont, from original map of 1906, one inch equals 160 feet, traced February 1914.



BRATTLEBORO QUADRANGLE, VERMONT-NEW HAMPSHIRE

Boundary Reference Monument No. 6. Diagram No. 6

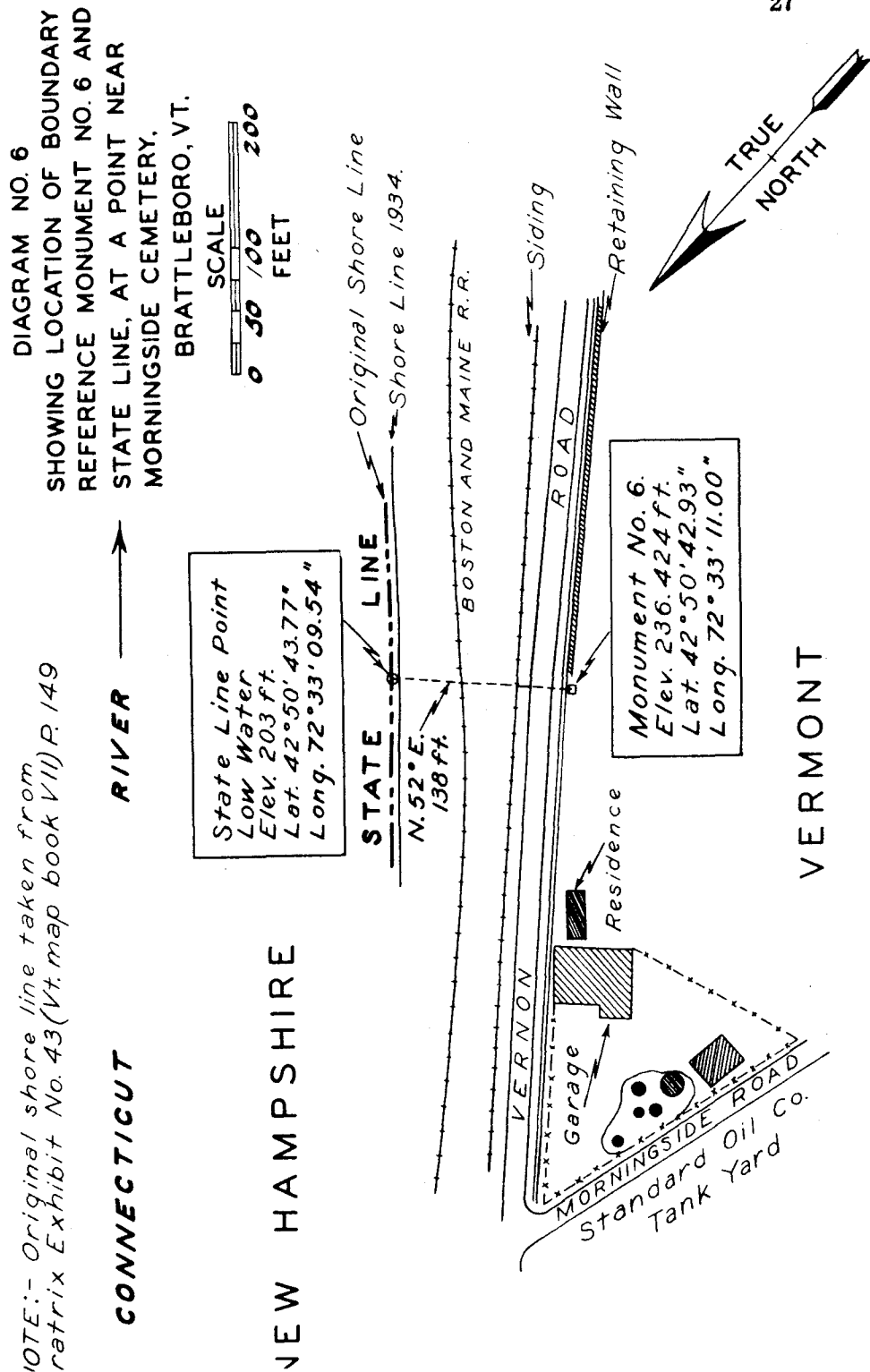
Brattleboro, Windham County, Vermont, 0.45 mile south of station, along Boston and Maine railroad, 420 feet south of Morningside road, 200 feet south of Standard Oil Company's garage at oil tank station, 10 feet north of north end of concrete retaining wall, 21 feet west from center of paved highway (Vernon Road), at base of bluff, on property owned by the Morningside Cemetery Association. A granite post 6 feet long and 12 inches square set 4 feet in the ground. Part above ground is dressed to 10 inches square. Bronze tablet set in top and stamped "Number 6-138 ft. N. 52° 00' E." Elevation 236.424 feet. State line point is 138 feet N. 52° 00' E. from center of marker

Latitude 42° 50' 42.93" Longitude 72° 33' 11.00"

Vermont-New Hampshire State line point low water elevation 203 feet

Latitude 42° 50' 43.77" Longitude 72° 33' 09.54"

See Vermont map book VII, page 149. Oratrix Exhibit No. 43



BRATTLEBORO QUADRANGLE, VERMONT-NEW HAMPSHIRE

U. S. Coast and Geodetic Survey Bench Mark "G 4 1927".
Near Diagram No. 7

Brattleboro, Windham County, Vermont, in southeast corner of the railroad station at, 2.4 feet above the ground. A standard U. S. Coast and Geodetic Survey disk stamped "G 4 1927", and set vertically in foundation wall. Elevation 239.763 feet

Latitude 42° 51' 02.35" Longitude 72° 33' 24.59"

Boundary Reference Monument No. 7. Diagram No. 7

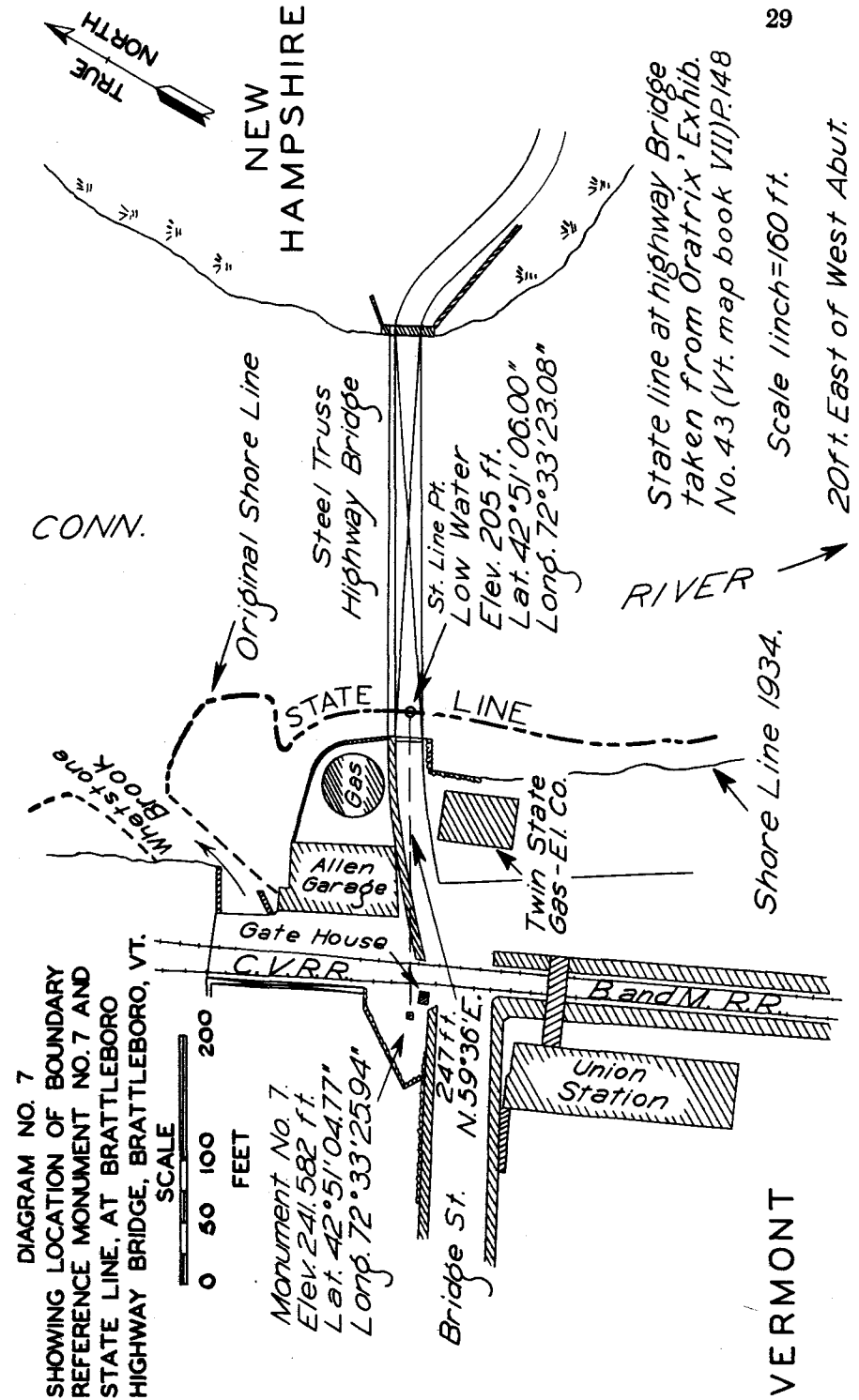
Brattleboro, Windham County, Vermont, at Union Station, 86 feet N. 17° 36' W. from northeast corner of stone station building, 25 feet north of curbing of Bridge Street, 25 feet west of west rail of Central Vermont Railroad, 8.5 feet from northwest corner of crossing watchman's cabin, on triangular plot between Whetstone Creek and Bridge Street. A granite post 6½ feet long and 12 inches square set 4½ feet in ground. Part above ground is dressed to 10 inches square. Bronze tablet set in top and stamped "Number 7-247 ft. N. 59° 36' E." Elevation 241.582 feet. State line point is 247 feet N. 59° 36' E. from center of marker

Latitude 42° 51' 04.77" Longitude 72° 33' 25.94"

Vermont-New Hampshire State line point, 20 feet east of west abutment of Bridge Street bridge. Elevation low water, State line point 205 feet

Latitude 42° 51' 06.00" Longitude 72° 33' 23.08"

See Vermont Map Book VII, page 148, Oratrix Exhibit No. 43.



BRATTLEBORO QUADRANGLE, VERMONT-NEW HAMPSHIRE

U. S. Coast and Geodetic Survey Bench Mark "H 4 1927".
Near Diagram No. 8

Brattleboro, Windham County, Vermont, 2.6 miles north of station in, along Boston and Maine Railroad, 1,180 feet north of highway underpass on road to suspension bridge over Connecticut River, 480 feet south of semaphore 629, 27.3 feet west of west rail, 8 feet south of center of private road leading to farmhouse of C. B. Crowell. A standard U. S. Coast and Geodetic Survey disk stamped "H 4 1927" and set in top of concrete post. Elevation 294.255 feet.

Latitude $42^{\circ} 53' 13.49''$ Longitude $72^{\circ} 33' 02.79''$

Boundary Reference Monument No. 8. Diagram No. 8

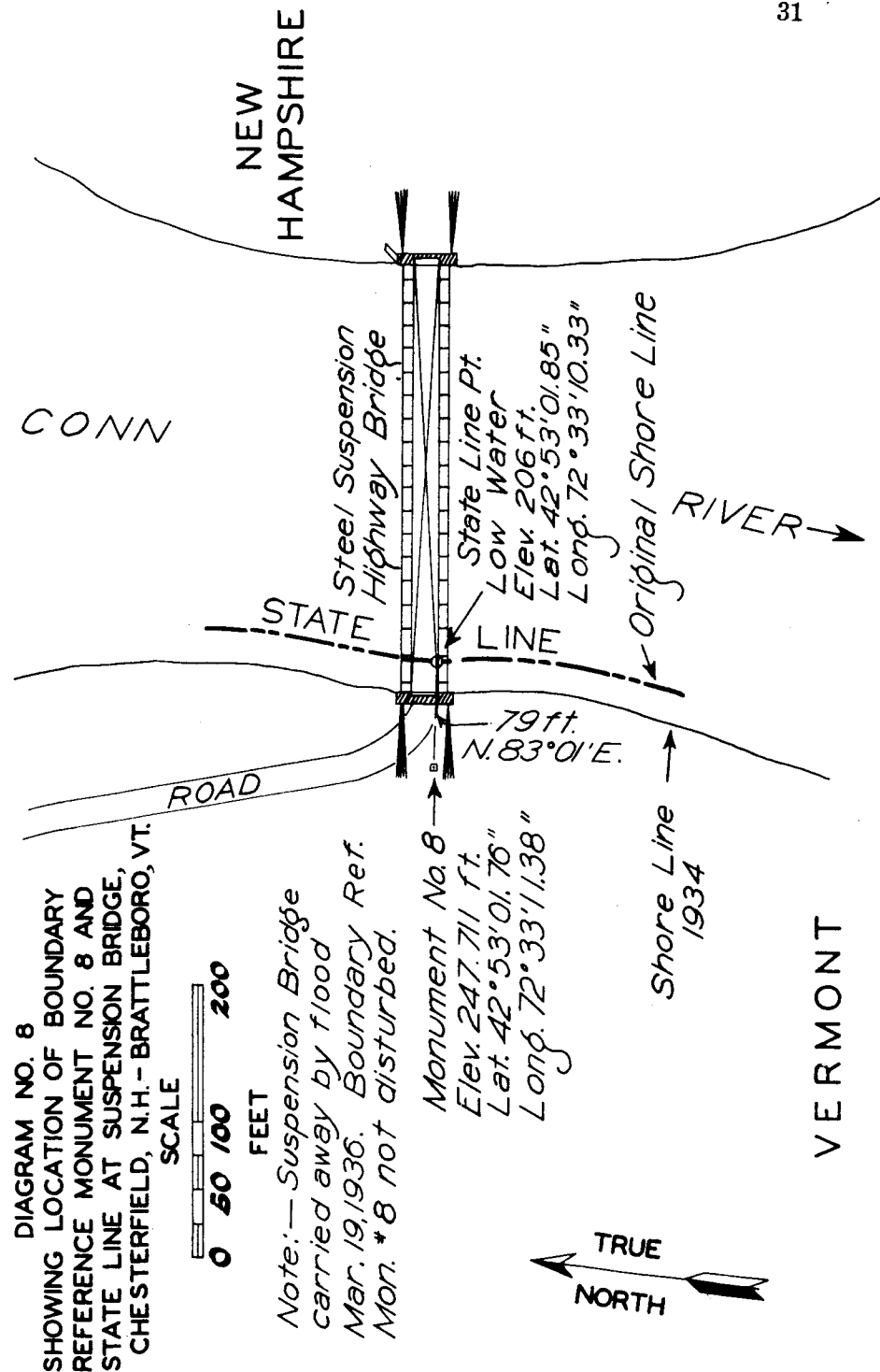
Brattleboro, Windham County, Vermont, 2.4 miles north of railroad station, 54 feet west of west end of suspension highway bridge over Connecticut River, on a line parallel with and 1 foot north of south side of bridge roadway, in edge of timber, near cables. A granite post 5.7 feet long and 12 inches square, set 4 feet in ground. The part above ground is dressed to 10 inches square. Bronze tablet set in top and stamped "Number 8-79 feet N. $83^{\circ} 01' E.$ " Elevation 247.711 feet. State line point is 79 feet N. $83^{\circ} 01' E.$ from center of marker

Latitude $42^{\circ} 53' 01.76''$ Longitude $72^{\circ} 33' 11.38''$

Suspension bridge carried away by flood, March 19, 1936. Monument not disturbed.

Vermont-New Hampshire State line point, low water elevation 206 feet

Latitude $42^{\circ} 53' 01.85''$ Longitude $72^{\circ} 33' 10.33''$



BRATTLEBORO QUADRANGLE, VERMONT-NEW HAMPSHIRE

Boundary Reference Monument No. 8-A. Diagram No. 9

Brattleboro, Windham County, Vt., 3.64 miles north of Boston and Maine Railroad station along Boston and Maine Railroad, across river and 0.95 mile airline southwest of the village of West Chesterfield, N. H., 85 feet south and 732 feet east of underpass of public road leading from State highway 5 east near the Brattleboro-Dummerston town line to old Norcross Ferry site (abandoned), on property of W. W. Hardy and 855 feet south of his dwelling, on Brattleboro-Dummerston town line, 8 feet west of top of steep bank on the Vermont side of the Connecticut River and 125 feet west of the actual bank of the river. A granite post $6\frac{1}{2}$ feet long and 14 inches square set $4\frac{1}{2}$ feet in ground. The part above ground is dressed to 12 inches square. This monument marks the line between Brattleboro-Dummerston townships, Windham County, Vt., as determined by a traverse line which follows the line from a point near the Rudyard Kipling old house east to the river. The monument has the letter "B" cut in the south face, the letter "D" cut in the north face, and "TL" cut in the west face. Bronze tablet set in top and stamped "Number 8A-250 ft. S. $87^{\circ} 56' E.$ " Elev. 252.817 feet. State line point is 250 ft. S. $87^{\circ} 56' E.$ from center of marker

Latitude $42^{\circ} 53' 46.27''$ Longitude $72^{\circ} 32' 01.18''$

Vermont-New Hampshire State line point, low water elev. 207 ft.

Latitude $42^{\circ} 53' 46.18''$ Longitude $72^{\circ} 31' 57.82''$

**U. S. Coast and Geodetic Survey Bench Mark "J 4 1927".
North of Diagram No. 9**

Dummerston, Windham County, Vermont, about 50 yards south of the Boston and Maine Railroad station, on the east end of the north abutment of a granite bridge, 18 feet east of the east rail of the main track. A standard U. S. Coast and Geodetic Survey disk stamped "J 4 1927." Elevation 262.539 feet

Latitude $42^{\circ} 55' 02.50''$ Longitude $72^{\circ} 31' 30.80''$

BRATTLEBORO QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued**U. S. Coast and Geodetic Survey Bench Mark "K 4 1927".
North of Diagram No. 9**

Putney Station, Windham County, Vermont, opposite the Boston and Maine Railroad station, 60.3 feet east of the east rail, near a fence. A standard U. S. Coast and Geodetic Survey disk stamped "K 4 1927," and set in top of a concrete post. Elevation 253.097 feet

Latitude $42^{\circ} 57' 47.96''$ Longitude $72^{\circ} 31' 10.81''$

KEENE QUADRANGLE, VERMONT-NEW HAMPSHIRE

**U. S. Coast and Geodetic Survey Bench Mark "L 4 1927".
North of Diagram No. 9**

East Putney Station, Windham County, Vermont, on the Boston and Maine Railroad, in settlement of, 39 feet north of semaphore 719, at an overhead bridge, in the south end of the wing wall of the east abutment. A standard U. S. Coast and Geodetic Survey disk stamped "L 4 1927." Elevation 292.801 feet

Latitude $42^{\circ} 58' 52.15''$ Longitude $72^{\circ} 28' 15.20''$

See Appendix For Diagram 9 Page 184

BELLOWS FALLS QUADRANGLE, VERMONT-NEW HAMPSHIRE

**Boundary Reference Monument No. 9 (Reset, 1936).
Diagram No. 10**

Westminster, Boston & Maine Railroad station, Windham County, Vt., about 900 feet east of; 735 feet east of the Westminster, Vt.-Walpole, N. H., public road crossing under the Boston & Maine Railroad, 534 feet west of the west end of steel through girder highway bridge over the Connecticut River, 20 feet north of center of highway, in line with telephone poles, 135 feet from the southwest corner and 162 feet from southeast corner of a brick machine shop, 116 feet southeast of southeast corner of dwelling. A granite post $6\frac{1}{2}$ feet long and 12 inches square set 5 feet in ground. The part above ground is dressed to 10 inches square. Bronze tablet set in top and stamped "Number 9—570 feet S. $75^{\circ} 27' E.$ " Elev. 246.275 feet. State line point is 570 feet S. $75^{\circ} 27' E.$ from center of marker

Latitude $43^{\circ} 05' 05.76''$ Longitude $72^{\circ} 26' 11.68''$

Vermont-New Hampshire State line point, low water elev. 219 feet.

Latitude $43^{\circ} 05' 04.35''$ Longitude $72^{\circ} 26' 04.25''$

NOTE.—Boundary Reference Monument No. 9 as originally set in 1934, 147 feet west of west end of steel girder highway bridge, was washed out of place by the flood of March, 1936. The river cut a temporary high water channel 200 feet wide and 25 feet deep just west of the bridge.

**U. S. Coast and Geodetic Survey Bench Mark "Q 4 1927".
Diagram No. 10**

Westminster, Windham County, Vermont, in village of, about 100 yards south of Boston and Maine Railroad station, 132 yards north of semaphore 800, on south end of east abutment of an underpass, 4.4 feet east of east rail. A standard U. S. Coast and Geodetic Survey disk stamped "Q 4 1927." Elevation 259.248 feet

Latitude $43^{\circ} 05' 07.09''$ Longitude $72^{\circ} 26' 21.55''$

BELLOWS FALLS QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

**U. S. Coast and Geodetic Survey Bench Mark "M 4 1927".
South of Diagram No. 10**

East Putney Station, Windham County, Vermont, 2.5 miles northeast of, along the Boston and Maine Railroad, about 225 yards south of semaphore 744, 18.4 feet west of west rail, 16 feet from center line of a private road leading to farmhouse of C. K. Loomas. A standard U. S. Coast and Geodetic Survey disk stamped "M 4 1927," and set in top of a concrete post. Elevation 243.943 feet

Latitude $43^{\circ} 00' 45.59''$ Longitude $72^{\circ} 27' 21.63''$

See Appendix For Diagram 10 Page 185

BELLOWS FALLS QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

Rockingham-Westminster, Vermont, Town Line. Diagram
No. 11

Small stone marker on north bank of Saxtons River at its
junction with Connecticut River

Latitude $43^{\circ} 07' 30.56''$ Longitude $72^{\circ} 26' 18.95''$

Boundary Reference Monument No. 10. Diagram No. 11

Bellows Falls Station, 1.0 mile south of, on north side of
Saxtons River, 150 feet northeast of double track roadbed
of Boston and Maine Railroad, on a point of land, 18 feet
from top of bank of Connecticut River and 10 feet from top
of bank of Saxtons River, on the Rockingham-Westminster
Town line, 9.3 feet west of a stone about 4 inches by 8
inches at the top set flush with surface of ground and said
to be a township line stone of long standing. A granite
post 6.5 feet long and 12 inches square, set 4.5 feet in
ground. The part above ground is dressed to 10 inches.
Bronze tablet in top stamped "Number 10—75 feet N. 48°
 $06' E.$ " Elevation 257.947 feet

Latitude $43^{\circ} 07' 30.56''$ Longitude $72^{\circ} 26' 19.08''$

State line point is 75 feet N. $48^{\circ} 06' E.$ from center of
marker.

Vermont-New Hampshire State line point. Elevation
low water 225 feet

Latitude $43^{\circ} 07' 31.05''$ Longitude $72^{\circ} 26' 18.33''$

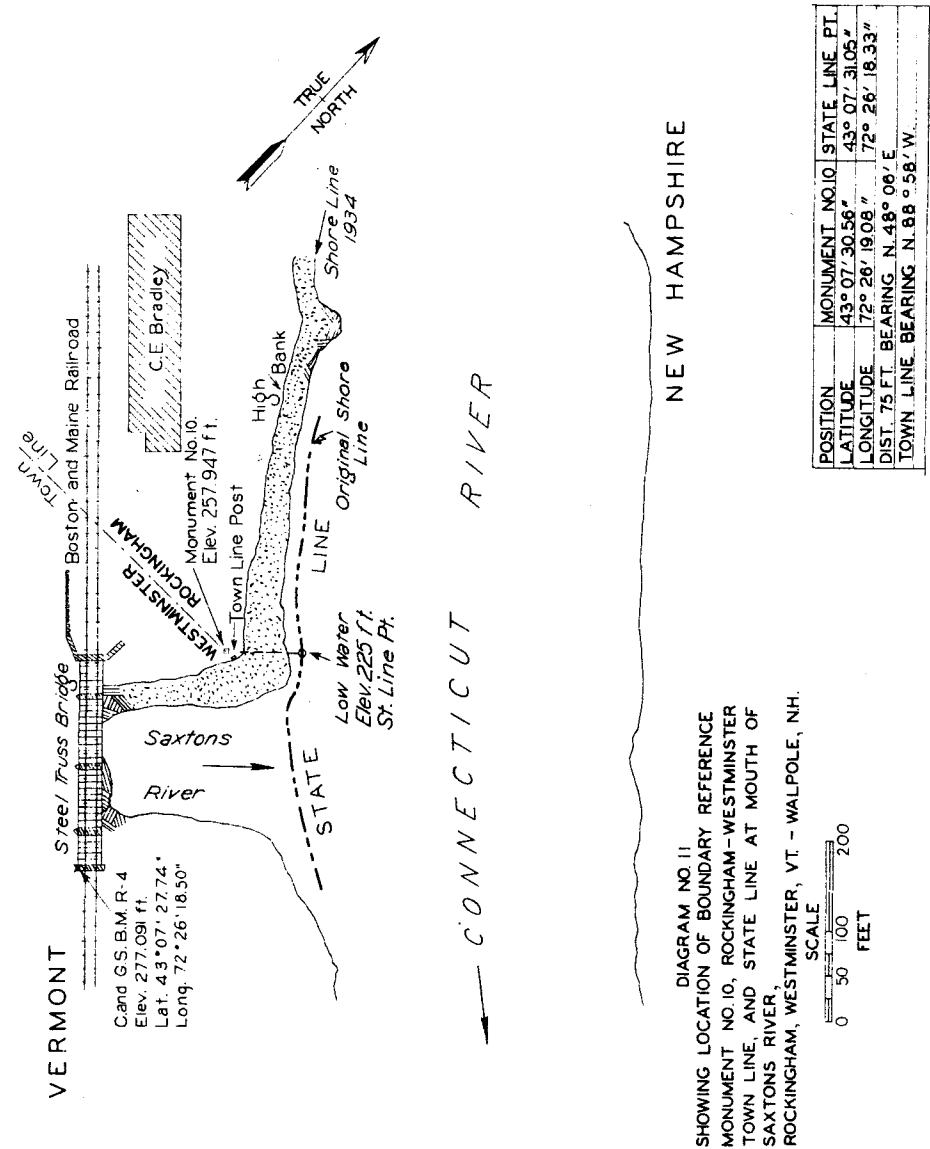
Rockingham-Westminster, Vermont, Town line, wooden
town line post on west side of Highway 5

Latitude $43^{\circ} 07' 30.70''$ Longitude $72^{\circ} 26' 30.95''$

U. S. Coast and Geodetic Survey Bench Mark "R 4 1927".
Diagram No. 11

Bellows Falls, Windham County, Vermont, 1.1 miles
south of station, along Boston and Maine Railroad, about
100 yards north of semaphore 829, at the bridge over Sax-
tons River, in west end of south abutment, 5.4 feet west of
west rail. A standard U. S. Coast and Geodetic Survey
disk stamped "R 4 1927". Elevation 277.091 feet

Latitude $43^{\circ} 07' 27.74''$ Longitude $72^{\circ} 26' 18.50''$



BELLOWS FALLS QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

Boundary Reference Monument No. 11. Diagram No. 12

Bellows Falls, Windham County, Vermont, in city of, near concrete arch highway bridge over Connecticut River now known as Vilas Memorial Bridge, (erected in 1930-1931,) formerly called Hale or Tucker Bridge, 92 feet west of west end of bridge, on property of Rutland Railroad, 22.5 feet west of center of switching track, 32 feet north of center of paved highway, 17 feet north of street curbing, 14 feet east of vacant residence, property is said to be owned by Rutland Railroad Company. A granite post 6.5 feet long and 12 inches square set 4.5 feet in ground. The part above ground is dressed to 10 inches square. Bronze tablet set in top stamped "Number 11—116 feet S. 77° 27' E." Elevation 301.449 feet. State line point is 116 feet S. 77° 27' E. from center of marker. State line marker No. 3 is 170.9 feet N. 47° 51' E. from center of marker

Latitude 43° 08' 07.91" Longitude 72° 26' 29.13"

Vermont-New Hampshire State line point, chiseled cross cut in concrete on Vilas Memorial concrete arch highway Bridge. Elevation of low water, 227 feet

Latitude 43° 08' 07.66" Longitude 72° 26' 27.60"

Bellows Falls station, Windham County, Vermont, 1,600 feet south of, in New Hampshire, at southwest corner of stone arch railroad bridge across Connecticut River, 15 feet west of center of track, on top of coping stone; standard U. S. Geological Survey tablet stamped "Mac 22-1925," Elevation 299.152 feet

Latitude 43° 08' 07.41" Longitude 72° 26' 24.39"

State Line Marker No. 3. Diagram No. 12

Bellows Falls station, Windham County, Vermont, about 0.25 mile east of, in top course of stone on two-span stone arch bridge of Boston and Maine Railroad (1899) over Connecticut River, on south side of track, 13 feet northwest from center of westerly arch, 2.3 feet from outer line of masonry, Line marker No. 3 bears S. 59° 45' E. 72 ft. from old stone St. Line Post near S. W. wing wall of R. R. bridge. Bronze line marker tablet set in stone and stamped "Number 3". Elevation of marker, 299.273 feet. Vermont-New Hampshire State line point. Elevation of low water 227 feet

Latitude 43° 08' 09.04" Longitude 72° 26' 27.41"

Drill hole in capstone on north wall of stone arch bridge of Boston and Maine Railroad. This hole together with Line Marker No. 3 mark State line across stone bridge.

Latitude 43° 08' 09.33" Longitude 72° 26' 27.37"

Old Vermont-New Hampshire State Line Marker. An 8-inch by 12-inch granite stone post standing about 5 feet high near face of abutment. It is marked "V T" on west side and "N H" on east side

Latitude 43° 08' 09.40" Longitude 72° 26' 28.25"

See Appendix For Diagram 12 Page 186

NOTE: BELLOWS FALLS QUADRANGLE, VERMONT-NEW
HAMPSHIRE—Continued

With practically all the water of the Connecticut River diverted from its original bed, and now flowing through the canal at Bellows Falls, except during floods, much of the original bed of the main river under the old stone arch railroad bridge and under the Vilas (Hale Tucker) bridge is in full view (see illustration).

The western bank consists of steep, bare rocky ledges, that under Vilas bridge being much the steeper. The main stream of the river during low water periods is now only a few feet wide. It is doubtful if these solid rocky ledges have changed much, if any, in the last hundred years, or since the first dam was built, although above and below these bridges much blasting has been done, evidences of which are plainly visible. The location of the State line under these two bridges was therefore determined by careful inspection of conditions as they existed in 1934 and by a study of the oldest maps and photographs filed in the case.

As there are no accurate or reliable maps in the exhibits of Oratrix and Respondent, showing west side of Connecticut River from the Vilas-Hale-Tucker Bridge down to a point below Nine Hole Rock, or near the mouth of the old canal (before any improvements) the original shore line or state line shown on Diagram No. 12 is a composite of the oldest and best maps and photographs on file in the exhibits, confirmed or modified by testimony of the oldest witnesses.

Maps Examined

L. Baldwin map of 1824, Oratrix Exhibit No. 71. James Hayward map of 1835, Oratrix Exhibit No. 72, also Respondent's Exhibit "N." Presdee & Edwards map 1853, Respondent's Exhibit "T."

Outlines of buildings in part, and New Hampshire shore line taken from Respondent's Exhibit "P", the Holden map of 1927, scale 100 feet equal to 1 inch.

Photographs

Photograph of Bellows Falls, June, 1855, Oratrix Exhibit No. 3, also Respondent's Exhibit M (2) and Q; the latter a very clear photograph of Bellows Falls, October, 1878, showing the rocky ledge, Nine Hole Rock, joined to the mainland on the western or Vermont side of the river.

Testimony

Norman S. Brockway, aged 85, August 10, 1926, at Sunapee, New Hampshire, witness for Oratrix:

Mr. Brockway testified that at different times between 1848 and 1860, he walked from the Vermont shore across the Nine Hole Rock on dry land or boulders.

James Barrett, aged 69, witness for Respondent, testified at Bellows Falls, July 18, 1928, that a large amount of blasting and dredging between Nine Hole Rock and the shore had been done from time to time during several years.

Daniel W. Riley, witness for Respondent, also testified regarding blasting on the west side of Nine Hole Rock.

Considering all available evidence by maps, photographs and witnesses, it appears that Nine Hole Rock was undoubtedly originally joined to the Vermont side of the river, and is therefore so indicated on Diagram No. 12.

BELLOWS FALLS QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

U. S. Coast & Geodetic Survey Bench Mark "T 4 1927".
Diagram No. 13

Bellows Falls, Windham County, Vt., about 450 feet northwest of the Boston and Maine Railroad station, at the bridge over Connecticut River, in west end of the south abutment, 5.4 feet west of west rail. A standard U. S. Coast and Geodetic Survey disk stamped "T 4 1927." Elevation 301.079 feet

Latitude 43° 08' 14.02" Longitude 72° 26' 47.63"

Boundary Reference Tablet No. 12. Diagram No. 13

Bellows Falls Station, Windham County, Vt., about 450 feet northwest of, at Boston and Maine Railroad truss bridge over Connecticut River, on wing abutment wall between southwest corner of bridge and northeast corner of Rutland Railroad roundhouse, in top course of stone. Bronze reference tablet stamped "Number 12—30 ft. N. 27° 38' W." Elevation 300.291 feet. State line point is 30 ft. N. 27° 38' W. from center of marker.

Latitude 43° 08' 13.83" Longitude 72° 26' 47.57"

Vermont-New Hampshire State line point, elevation low water, 254 feet

Latitude 43° 08' 14.09" Longitude 72° 26' 47.76"

Boundary Reference Tablet No. 13. Diagram No. 13

Bellows Falls station, Windham County, Vt., about 525 feet northwest of, on north side of Rutland Railroad roundhouse and west of Boston and Maine Railroad bridge over Connecticut River, on top of the most southerly concrete pier of New England Power Company dam, 6 feet from easterly end of pier and approximately on the line of the flash boards on the dam. Bronze tablet set in concrete and stamped "Number 13—30 ft. N. 27° 38' W." Elevation 300.630 feet. State line point is 30 ft. N. 27° 38' W. from center of marker

Latitude 43° 08' 13.71" Longitude 72° 26' 48.53"

See Appendix For Diagram 13 Page 188

BELLOWS FALLS QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

Vermont-New Hampshire State line point, elevation low water 254 feet

Latitude 43° 08' 13.97" Longitude 72° 26' 48.72"

Boundary Reference Tablet No. 14. Diagram No. 13

Bellows Falls, Windham County, Vt., at north end of, at steel arch highway bridge over Connecticut River, at southwest corner of smaller span, on west end of south abutment about 2 feet below the level of the bridge floor. Bronze tablet stamped "Number 14—147 ft. N. 21° 36' E." Elevation 325.686 feet. State line point is 147 feet N. 21° 36' E. from center of marker

Latitude 43° 08' 13.66" Longitude 72° 26' 57.79"

Vermont-New Hampshire State line point, elevation low water 265 feet

Latitude 43° 08' 15.01" Longitude 72° 26' 57.06"

Old State Line Marker, wooden post fastened to iron railing of steel arch highway bridge

Latitude 43° 08' 14.62" Longitude 72° 26' 57.27"

NOTE.—Bridge badly damaged by flood March 1936.

Boundary Reference Monument No. 15. Diagram No. 13

Bellows Falls, Windham County, Vt., at north end of, 160 feet S. 26° W. from southwest end of steel arch highway bridge over Connecticut River, on property line between E. P. Cray and Smith Auto Sales Company, 4 feet from southeast corner of one-story brick building, garage and service station of Smith Auto Sales Company, 6 feet from southwest corner of a frame building service and filling station, on property of Standard Oil Company and leased to Smith Auto Sales Company. A granite post 5½ feet long and 12 inches square, set 4½ feet in the ground. Bronze tablet set in top and stamped "Number 15—307 ft. N. 23° 16' E." Elevation 332.101 feet. State line point is 307 feet N. 23° 16' E. from center of marker

Latitude 43° 08' 12.22" Longitude 72° 26' 58.69"

Vermont-New Hampshire State line point, elevation low water 265 feet

Latitude 43° 08' 15.01" Longitude 72° 26' 57.06"

BELLOWS FALLS QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

Boundary Reference Monument 15-A. Diagram No. 14

Bellows Falls, Windham County, Vt., 1.9 miles north of, along Boston and Maine Railroad and Rutland Railroad, 8 feet west of top of steep bank, 140 ft. west of center of main track at a point 1,053 ft. north of a farm road crossing, 933 ft. north of station board at Riverside flag station, in grass field on land of Mr. F. E. Crosby and 570 ft. north-east of his dwelling A granite post 6½ ft. long and 14 inches square set 5 ft. in ground. The part above ground is dressed to 12 inches square Bronze tablet set in top and stamped "Number 15A 763 ft. S. 81° 23' E." Elev. 322.319 feet. State line point is 763 ft. S. 81° 23' E. from center of marker

Latitude 43° 09' 43.56" Longitude 72° 27' 18.32"

Vermont-New Hampshire State line point, low water elevation 276 feet

Latitude 43° 09' 42.43" Longitude 72° 27' 08.14"

**U. S. Coast and Geodetic Survey Bench Mark "J 2 1927".
North of Diagram No. 14**

South Charlestown, Sullivan County, New Hampshire, 0.5 mile south of, along Boston and Maine Railroad, about 330 yards north of semaphore 862, at bridge D-81 over State Highway 12, in west end of south abutment, 7.8 feet west of west rail. A standard U. S. Coast and Geodetic Survey disk stamped "J 2 1927." Elevation 307.053 feet

Latitude 43° 10' 29.39" Longitude 72° 26' 35.04"

Underpass has recently been abandoned as a highway.

**U. S. Geological Survey Bench Mark "Mac No. 20 1925".
North of Diagram No. 14**

South Charlestown, Sullivan County, New Hampshire, in village of, about 520 feet south of Boston and Maine Railroad station. at south end of a masonry retaining wall,

BELLOWS FALLS QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

in lower course of stone, 8 feet east of track. A U. S. Geological Survey standard disk stamped "Mac No. 20 1925." Elevation 301.791 feet

Latitude 43° 10' 46.33" Longitude 72° 26' 27.84"

**Tie Point: Stowell Triangulation Station, Windsor County,
Vt. Northwest of Diagram No. 14**

Situated about 1.5 miles north and 0.5 mile east of Saxtons River village on a ridge running north and south, wooded on south part and round the side but clear on middle and highest part. Station is on a narrow ledge on highest point. Station mark: An iron bolt in ledge. U. S. Coast and Geodetic Survey 1885. U. S. Geological Survey 1925.

Latitude 43° 09' 59.01" Longitude 72° 29' 31.38"

**U. S. Coast and Geodetic Survey Bench Mark "K 2 1927".
Near Diagram No. 15**

Charlestown, Sullivan County, New Hampshire, about 1.75 miles south of, along Boston and Maine Railroad, about 110 yards south of semaphore 895, near the tanks of the Sinclair Oil Company, 10 feet south of center of a private road crossing, 10.1 feet east of east rail. A standard U. S. Coast and Geodetic Survey disk stamped "K 2 1927," and set in top of a concrete post. Elevation 337.158 feet

Latitude 43° 12' 53.26" Longitude 72° 25' 41.14"

Boundary Reference Monument No. 16. Diagram No. 15

Springfield, Windsor County, Vermont - Charlestown, Sullivan County, New Hampshire, Cheshire Toll Bridge, 559 feet N. 22° W. from north end of bridge, 18 feet southeast of center of paved highway, at foot of a bank about 12 feet high. A granite post 5.5 feet long and 12 inches square, set 4 feet in ground. The part above ground is dressed to 10 inches square. Bronze tablet set in top stamped "Number 16—559 feet S. 21° 23' E. Elevation 318.948 feet. State line point is 559 feet S. 21° 23' E., from center of marker

Latitude 43° 15' 44.68" Longitude 72° 25' 43.55"

Vermont-New Hampshire State line point, low water elevation 280 feet

Latitude 43° 15' 39.54" Longitude 72° 25' 40.79"

**U. S. Coast and Geodetic Survey Bench Mark "L 2 1927".
Near Diagram No. 15**

Charlestown, Sullivan County, New Hampshire, about 1.75 miles north of, along Boston and Maine Railroad, about 235 feet south and 420 feet west of center of double track roadbed at new concrete overhead highway bridge. A standard U. S. Coast and Geodetic Survey disk stamped "L 2 1927," set in top of concrete post. Elevation 365.262 feet

Latitude 43° 15' 36.67" Longitude 72° 25' 16.98"

The above description has been revised due to change in railroad line.

**U. S. Geological Survey Bench Mark "MAC No. 18 1925".
Near Diagram No. 15**

Charlestown, Sullivan County, New Hampshire, about 1.7 miles north of, about 250 feet west of present Boston and Maine Railroad track (1934), 960 feet south and 760 feet

**CLAREMONT QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued**

west of center of double track roadbed at new concrete overhead highway bridge, in concrete block formerly used as base of a semaphore; a standard U. S. Geological Survey tablet stamped "MAC No. 18 1925". Elevation 367.283 feet

Latitude 43° 15' 29.49" Longitude 72° 25' 21.68"

Cheshire Toll Bridge, chiseled cross cut in concrete, 6.3 feet west from southwest corner of bridge

Latitude 43° 15' 39.87" Longitude 72° 25' 40.97"

BELLOWS FALLS QUADRANGLE, NEW HAMPSHIRE-VERMONT**U. S. Geological Survey Bench Mark "Mac No. 19 1925".
Southeast of Diagram No. 15**

Charlestown, Sullivan County, New Hampshire, about 0.6 mile south of, along Boston and Maine Railroad, on south side of an undergrade crossing, 8 feet west of track, in a masonry wing wall. A standard U. S. Geological Survey disk stamped "Mac No. 19 1925." Elevation 351.522 feet

Latitude 43° 13' 30.80" Longitude 72° 25' 23.23"

CLAREMONT QUADRANGLE, VERMONT-NEW HAMPSHIRE

Boundary Reference Monument No. 17. Diagram No. 16

Ascutney, Windsor County, Vt., about $\frac{1}{4}$ mile east of, 308 feet west of west end of 3-span steel truss bridge (1908), 28 feet south of center of paved highway, within property lines of Leonard W. Wilgus who lives just to the south. A granite post $6\frac{1}{2}$ feet long and 12 inches square, set 5 feet in ground. The part above ground is dressed to 10 inches square. Bronze tablet set in top and stamped "Number 17—338 feet S. $84^{\circ} 42'$ E." Elevation 350.125 feet. State line point is 338 feet S. $84^{\circ} 42'$ E. from center of marker

Latitude $43^{\circ} 24' 13.40''$ Longitude $72^{\circ} 24' 10.24''$

Vermont-New Hampshire State line point, low water elevation 287 feet

Latitude $43^{\circ} 24' 13.09''$ Longitude $72^{\circ} 24' 05.68''$

**U. S. Coast and Geodetic Survey Bench Mark "N 2 1927".
Near Diagram No. 16**

Claremont Junction, Sullivan County, New Hampshire, 0.8 mile south of along the Boston and Maine Railroad, 14.5 feet north of center line of a private road crossing the railroad leading to the rear of the farmhouse owned by W. Putnam, 27.4 feet east of east rail. A standard tablet of U. S. Coast and Geodetic Survey stamped "N 2 1927," set in top of a concrete post. Elevation 460.882 feet

Latitude $43^{\circ} 21' 28.22''$ Longitude $72^{\circ} 22' 51.78''$

**U. S. Geological Survey Bench Mark "368 ADJ."
Near Diagram No. 16**

Claremont, 0.25 mile south of town line of Cornish, 0.7 mile south of Balloch station, 30 feet west of track, 35 feet northeast of A. W. Lamberton's house in small flat boulder; aluminum tablet stamped "368 ADJ." Elevation 368.233 feet

Latitude $43^{\circ} 25' 23.77''$ Longitude $72^{\circ} 23' 34.04''$

CLAREMONT QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued**Triangulation Station Ascutney South, Windsor County,
Vt. Near Diagram No. 16**

Tie Point: Situated about 3 miles southwest of Windsor, Vt., on top of Ascutney Mountain and at the extreme southern end of the summit on an open ledge, with a commanding view east, south, and west. This station is about 1,062 feet southwest of old U. S. Coast and Geodetic Survey station which is near the center of summit. Station mark: Bronze tablet in solid rock. Reference mark: the southeast corner of top of wooden fire lookout tower, 49 feet distant in azimuth about 80° . U. S. Geological Survey station, year 1925.

Latitude $43^{\circ} 26' 37.73''$ Longitude $72^{\circ} 27' 17.34''$

CLAREMONT QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

Boundary Reference Monument No. 18. Diagram No. 17

Windsor station, Windsor County, Vt., 0.6 mile south of, along Boston and Maine Railroad on shelf below main highway, Route 5, 20 feet east of east edge of concrete pavement, 145 feet west from center of railroad track. A granite post 6½ feet long and 12 inches square, set 4½ feet in ground. The part above ground is dressed to 10 inches square. Bronze tablet set in top and stamped "Number 18—704 feet S. 16° 30' E." Elev. 352.958 feet. State line point is 704 feet S. 16° 30' E. from center of marker

Latitude 43° 28' 20.66" Longitude 72° 23' 25.20"

Vermont-New Hampshire State line point, low water
Elevation 298 feet

Latitude 43° 28' 14.00" Longitude 72° 23' 22.49"

Chiseled cross at north end of railroad bridge, east side
of track

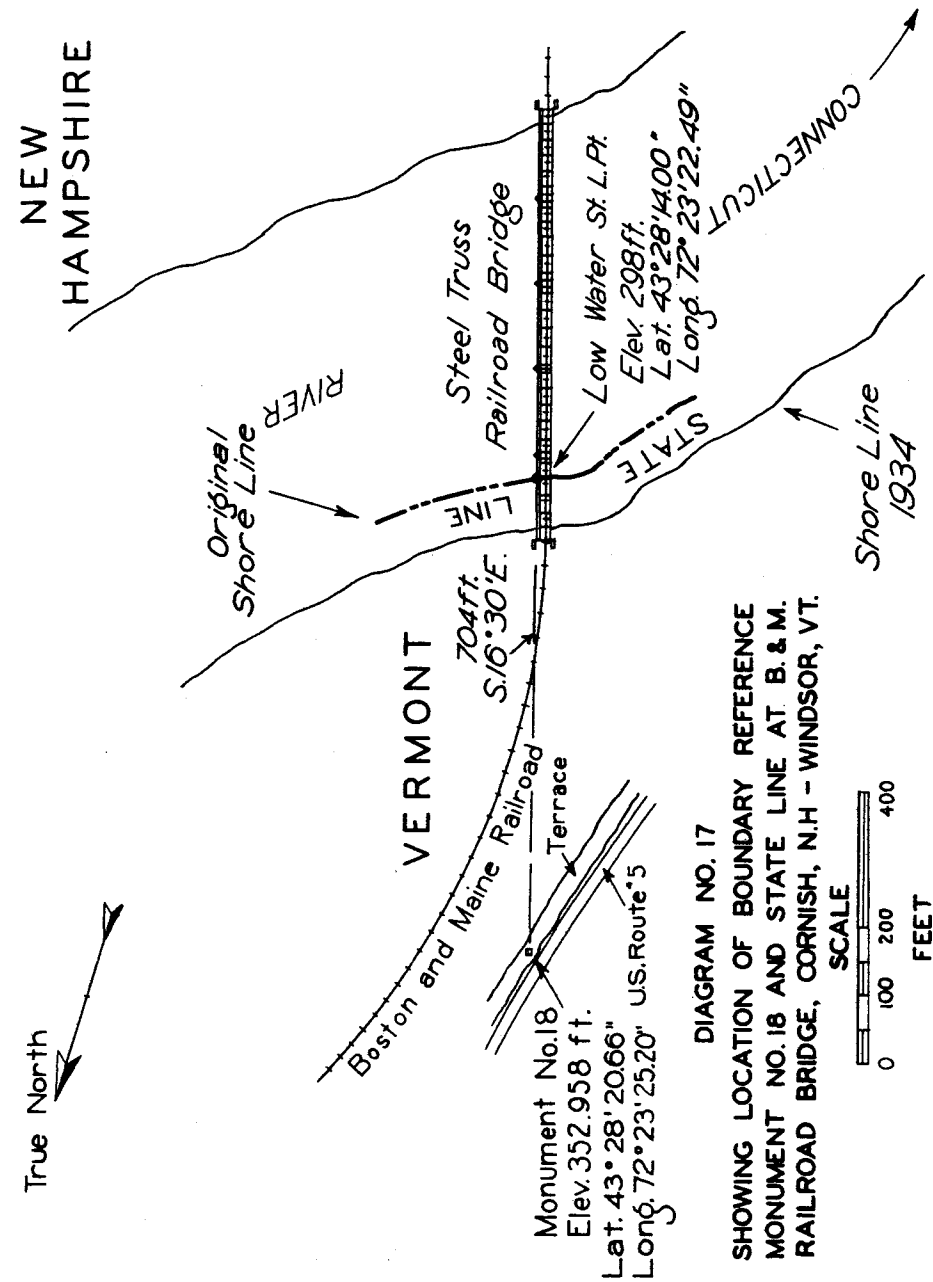
Latitude 43° 28' 14.83" Longitude 72° 23' 22.83"

Near Diagram No. 17

Chiseled cross at south end of railroad bridge in New
Hampshire, near Windsor, Vermont, on east side of track

Latitude 43° 28' 07.66" Longitude 72° 23' 19.88"

4-8344-C



CLAREMONT QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

**U. S. Coast and Geodetic Survey Bench Mark "Z 5 1927".
Near Diagram No. 18**

Windsor, Windsor County, Vermont, in east wall of railroad station, 7.8 feet south of door leading to waiting room in north end of the building, 3.3 feet higher than the concrete platform. A standard U. S. Coast and Geodetic Survey disk stamped "Z 5 1927," and set vertically. Elevation 331.213 feet

Latitude $43^{\circ} 28' 48.29''$ Longitude $72^{\circ} 23' 07.04''$

Boundary Reference Monument No. 19. Diagram No. 18

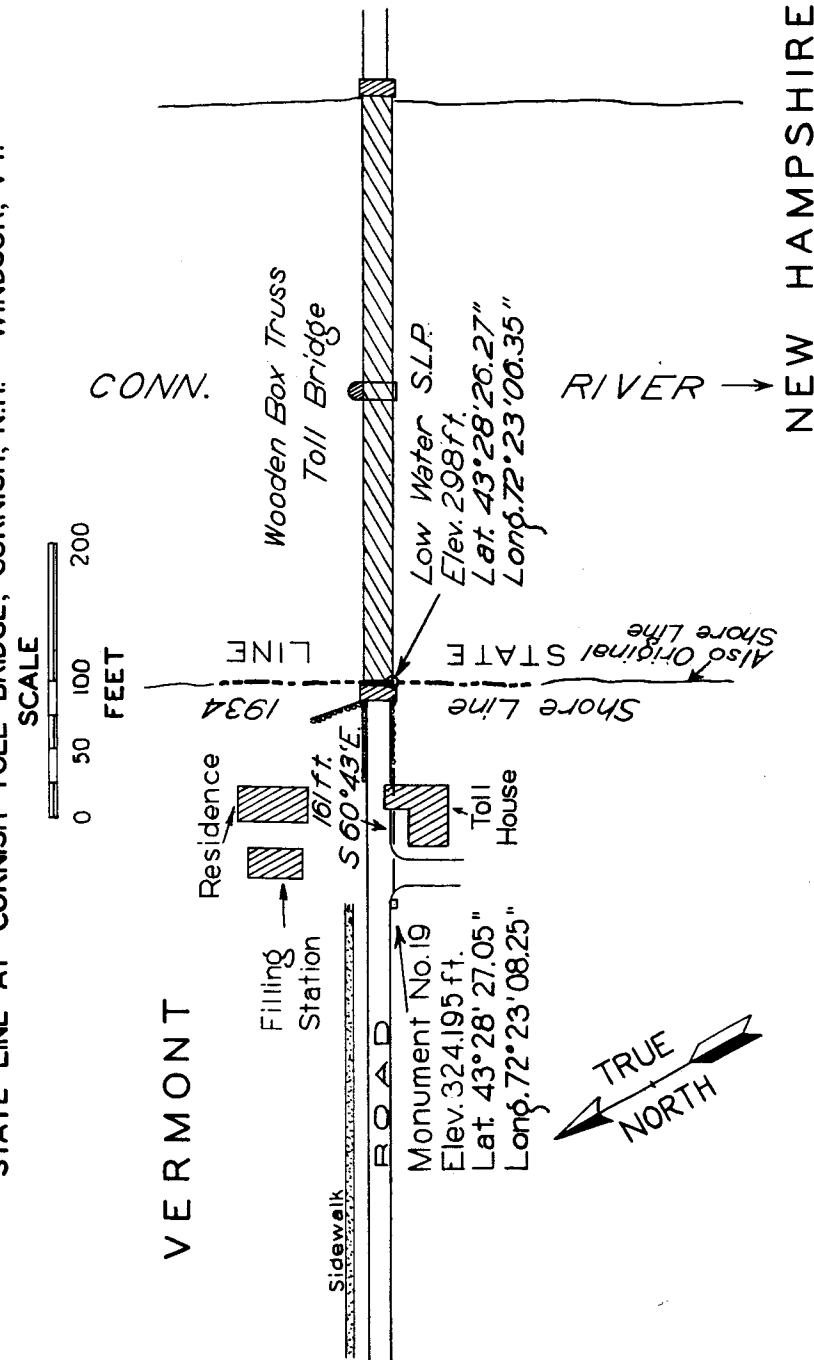
Windsor, Windsor County, Vermont, Windsor-Cornish covered highway toll bridge (two-span), 147 feet west of, 600 feet east of Boston and Maine Railroad, 40 feet west of west side of toll house, on south side of street, 18 inches from concrete curbing and just east of an electric light pole. A granite post 6.5 feet long and 12 inches square set 5 feet in ground. The part above ground is dressed to 10 inches square. Bronze tablet set in top and stamped "Number 19—161 feet S. $60^{\circ} 43'$ E." Elevation 324.195 feet. State line point is 161 feet S. $60^{\circ} 43'$ E. from center of marker

Latitude $43^{\circ} 28' 27.05''$ Longitude $72^{\circ} 23' 08.25''$

Vermont-New Hampshire State line point, low water elevation 298 feet

Latitude $43^{\circ} 28' 26.27''$ Longitude $72^{\circ} 23' 06.35''$

DIAGRAM NO. 18
SHOWING LOCATION OF BOUNDARY REFERENCE MONUMENT NO. 19 AND
STATE LINE AT CORNISH TOLL BRIDGE, CORNISH, N.H. - WINDSOR, VT.



HANOVER QUADRANGLE, VERMONT-NEW HAMPSHIRE

Boundary Reference Monument No. 20. Diagram No. 19

Evarts Station, Windsor County, Vt., on Central Vermont Railroad, 2.7 miles south of, approximately east from new concrete overhead highway bridge (Route No. 5) crossing railroad, $\frac{1}{4}$ mile from main highway, on an open smooth grassy plot of land, 25 feet west of a roadway leading to river, 45 feet west of top of river bank, 450 feet north of a rocky ledge in Connecticut River known as Sumner Falls. A granite post $5\frac{1}{2}$ feet long and 12 inches square set 3 feet 8 inches in ground. The part above ground is dressed to 10 inches square. Bronze tablet set in top and stamped "Number 20—142 feet N. $87^{\circ} 00' E.$ " Elevation 343.953 feet. State line point is 142 feet N. $87^{\circ} 00' E.$ from center of marker

Latitude $43^{\circ} 34' 01.46''$ Longitude $72^{\circ} 22' 51.03''$

Vermont-New Hampshire State line point low water elevation 315 feet.

Latitude $43^{\circ} 34' 01.53''$ Longitude $72^{\circ} 22' 49.10''$

Boundary Reference Tablet No. 21. Diagram No. 19

Summer Falls, Windsor County, Vt., on prominent rock outcrop about 150 feet from bank of Connecticut River. This is at the Vermont end of a rocky outcrop extending southeasterly nearly across the river. It is about 5 feet higher than the rockbed of the river. Bronze tablet set in solid rock and stamped Number 21 118 feet S. $85^{\circ} 15' E.$ " State line point is 118 feet S. $85^{\circ} 15' E.$ from center of marker.

Latitude $43^{\circ} 33' 56.21''$ Longitude $72^{\circ} 22' 51.81''$

Vermont-New Hampshire State line point low water elevation 314 feet

Latitude $43^{\circ} 33' 56.11''$ Longitude $72^{\circ} 22' 50.21''$

**U. S. Coast and Geodetic Survey Bench Mark "A 6 1927".
Near Diagram No. 19**

Hartland, Windsor County, Vermont, 1.5 miles south of, along Central Vermont Railroad, 74 feet south of the cross-

See Appendix For Diagram 19 Page 192

HANOVER QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

ing of a private road leading to rear of farmhouse owned by Ralph Burnham, and 40.4 feet west of west rail. A standard U. S. Coast and Geodetic Survey disk stamped "A 6 1927," and set in top of concrete post. Elevation 361.279 feet.

Latitude $43^{\circ} 31' 03.60''$ Longitude $72^{\circ} 24' 02.84''$

U. S. Geological Survey Bench Mark "441 ADJ."

Hartland, Windsor County, Vermont, 250 feet west of track, in road fork near station, 15 feet north of road, in boulder; aluminum tablet stamped "441 ADJ." Elevation 442.040 feet.

Latitude $43^{\circ} 32' 14.29''$ Longitude $72^{\circ} 23' 22.28''$

**U. S. Coast and Geodetic Survey Bench Mark "B 6 1927".
Near Diagram No. 19**

Hartland, Windsor County, Vermont, 2 miles north of, along Central Vermont Railroad, at an overhead bridge, in top of north wing wall of west abutment, 13 feet north of center line of road. A standard U. S. Coast and Geodetic Survey disk stamped "B 6 1927." Elevation 470.70 feet.

Latitude $43^{\circ} 34' 01.78''$ Longitude $72^{\circ} 23' 05.97''$

NOTE: This bench mark as originally set was destroyed. It was reset and elevation redetermined by the Vermont State Highway Department.

**U. S. Coast and Geodetic Survey Bench Mark "C 6 1927".
Near Diagram No. 19**

Evarts, Windsor County, Vermont, 150 yards east of the Central Vermont Railroad station, at the bridge over Ottawa-quechee River, in the west end of the south abutment, 20.9 feet west of the west rail. A standard U. S. Coast and Geodetic Survey disk stamped "C 6 1927." Elevation 365.547 feet.

Latitude $43^{\circ} 35' 32.17''$ Longitude $72^{\circ} 20' 56.57''$

HANOVER QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

Boundary Reference Monument No. 22. Diagram No. 20

White River Junction, Windsor County, Vermont, 850 feet southeast of station, 175 feet south of center of south track of Boston and Maine Railroad, at west end of bridge over Connecticut River, in an open field and approximately on right-of-way line of railroad, 28 feet west of river bank. A granite post 6.5 feet long and 12 inches square set 5 feet in ground. The part above ground is dressed to 10 inches square. Bronze tablet set in top and stamped "Number 22 182 feet N. 28° 18' E." Elevation 355.974 feet. State line point is 182 feet N. 28° 18' E. from center of marker.

Latitude 43° 38' 48.17" Longitude 72° 18' 53.81"

Vermont-New Hampshire State line point, low water elevation 326 feet

Latitude 43° 38' 49.76" Longitude 72° 18' 52.63"

U. S. Coast and Geodetic Survey Bench Mark "M 6 1927"

White River Junction, Windsor County, Vermont. 0.25 mile east of station along Boston and Maine Railroad, at bridge 117 over Connecticut River, 30.6 feet west of west end of bridge, 27.8 feet south of south rail of the main track, in granite abutment. A standard U. S. Coast and Geodetic Survey disk stamped "M 6 1927." Elevation 370.636 feet. State line point is 77 feet N. 86° 56' E. from B.M. "M 6 1927."

Latitude 43° 38' 49.72" Longitude 72° 18' 53.68"

U. S. Coast and Geodetic Survey Bench Mark "E 6 1927"
Near Diagram No. 20

White River Junction, Windsor County, Vermont, 480 feet north of Boston and Maine Railroad station, at bridge over White River in west end of south abutment, 4.2 feet west of west rail. A standard U. S. Coast and Geodetic Survey disk stamped "E 6 1927." Elevation 365.613 feet.

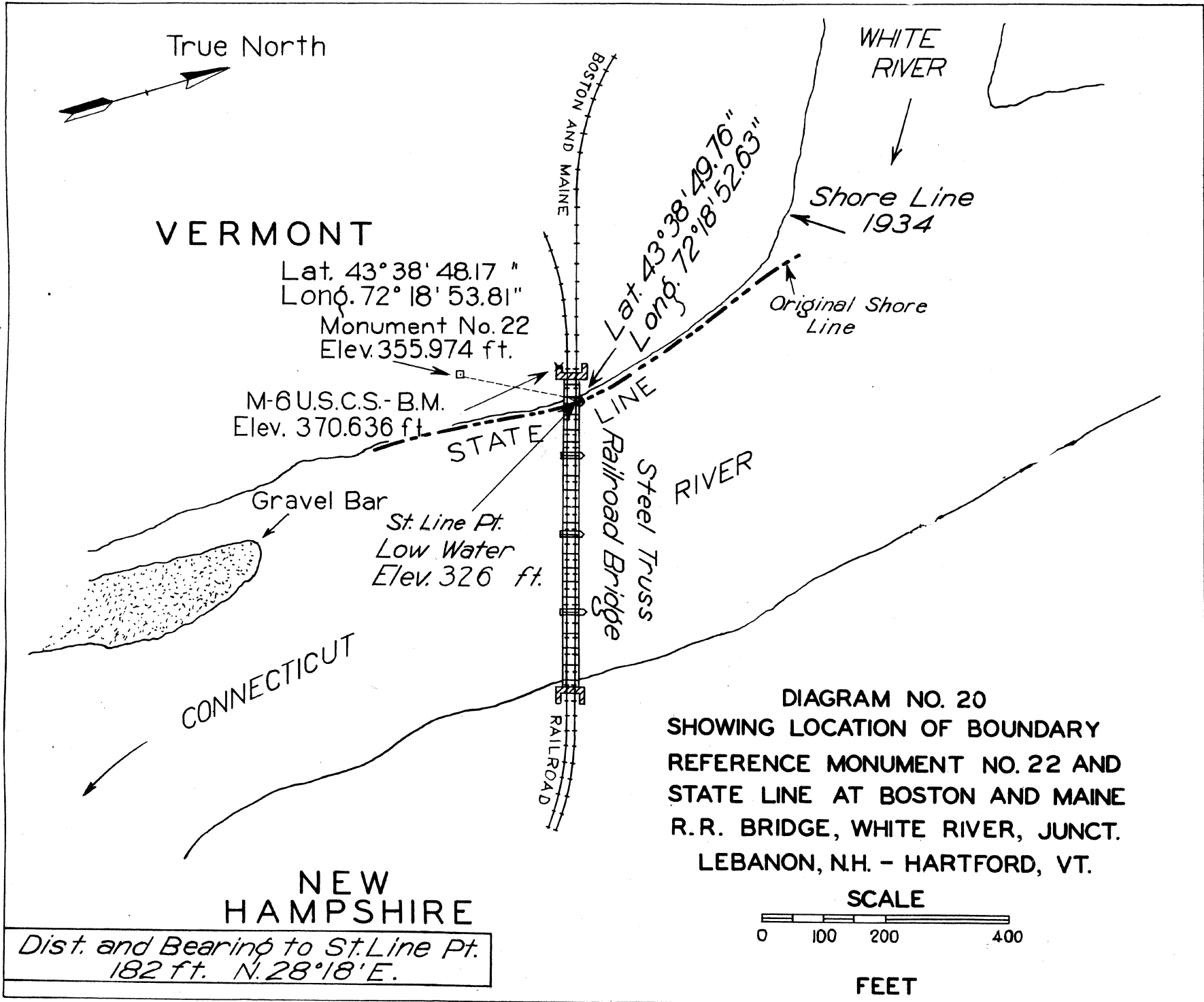
Latitude 43° 38' 56.50" Longitude 72° 19' 02.67"

HANOVER QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

U. S. Coast and Geodetic Survey Bench Mark "D 6 1927"
Near Diagram No. 20

White River Junction, Windsor County, Vermont, 2.5 miles south of, along Central Vermont Railroad, 11 feet north of crossing of a private road at farmhouse of John Eastman, 22.7 feet east of the east rail. A standard U. S. Coast and Geodetic Survey disk stamped "D 6 1927" and set in top of a concrete post. Elevation 348.277 feet.

Latitude 43° 36' 55.96" Longitude 72° 20' 10.07"



HANOVER QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

Boundary Reference Monument No. 23. Diagram No. 21

White River Junction, Windsor County, Vt., about 1,200 feet north of Railroad station, 285 feet east from Boston and Maine Railroad overhead crossing of Maple Street, 55 feet northwest of northwest corner of Hartford, Vt.-Lebanon, N. H., highway bridge across the Connecticut River, 28 feet north of center of paved highway, in front yard of residence owned by A. F. Lawson of Hartford, Vt., 21 feet from southeast corner of house. A granite post 6½ feet long and 12 inches square set 4.5 feet in ground. The part above ground is dressed to 10 inches square. Bronze tablet set in top and stamped "Number 23-86 ft. S. 69° 26' E." Elevation 356.210 feet. State line point is 86 feet S. 69° 26' E. from center of marker

Latitude 43° 39' 03.55" Longitude 72° 18' 56.42"

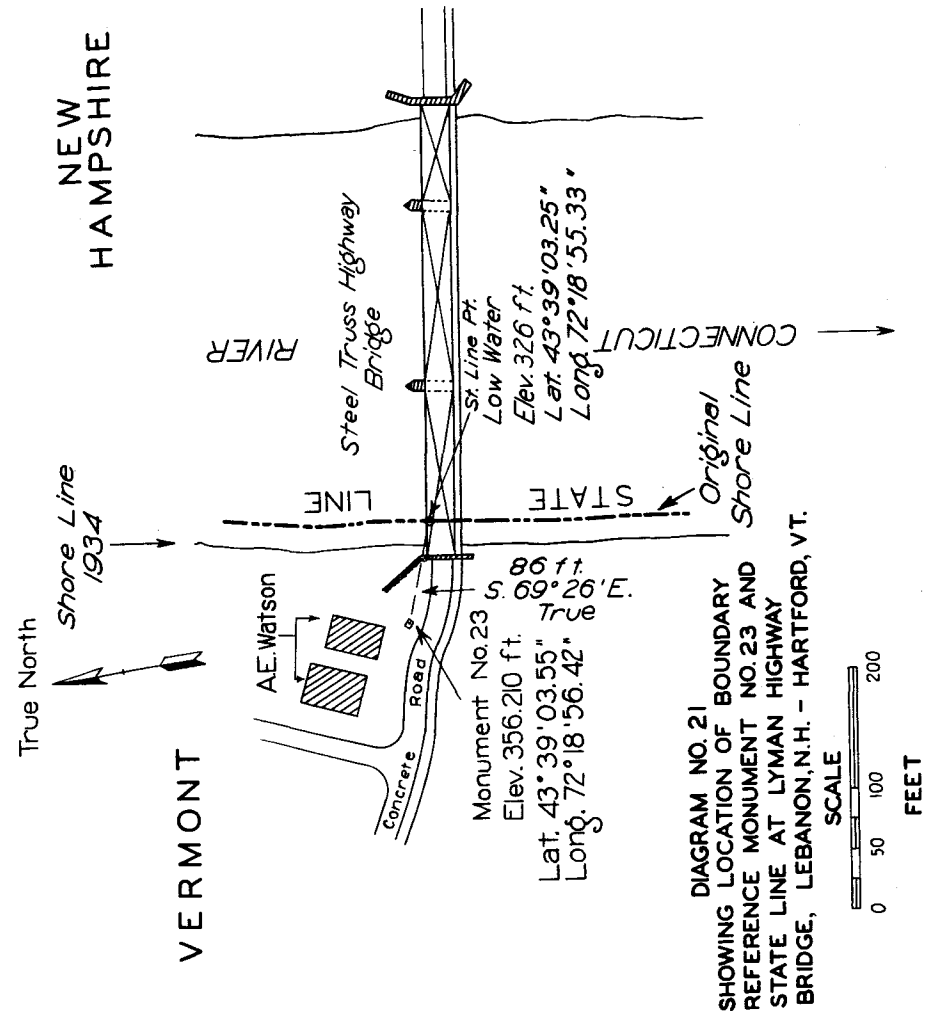
Vermont-New Hampshire State line point, low water elevation 326 feet

Latitude 43° 39' 03.25" Longitude 72° 18' 55.33"

**U. S. Coast and Geodetic Survey Bench Mark "U 6 1927".
Near Diagram No. 21**

White River Junction, Windsor County, Vermont, about 0.25 mile north of Boston and Maine Railroad station, at bridge over Maple Street, in west end of south abutment, 8.8 feet west of west rail. A standard U. S. Coast and Geodetic Survey disk stamped "U 6 1927." Elevation 364.881 feet.

Latitude 43° 39' 04.34" Longitude 72° 19' 00.32"



HANOVER QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

Boundary Reference Monument No. 24. Diagram No. 22

Wilder, Windsor County, Vermont, at south end of group of buildings of International Paper Company (plant has not been in operation for some years), 375 feet south of office, 19 feet southwest of southwest corner of Barker building, 69 feet west of a pine tree on top of bank of river. A granite post 5.5 feet long and 12 inches square, set 4 feet in ground. Part above ground is dressed to 10 inches square. Bronze tablet in top stamped "Number 24 280 feet S. 66° 30' E." Elevation 395.610 feet. State line point is 280 feet S. 66° 30' E. from center of marker

Latitude 43° 40' 25.96" Longitude 72° 18' 15.30"

Vermont-New Hampshire State line point, low water elevation 331 feet

Latitude 43° 40' 24.85" Longitude 72° 18' 11.81"

Chiseled cross on canal wall at paper mill

Latitude 43° 40' 33.63" Longitude 72° 18' 09.31"

Boundary Reference Monument No. 25. Diagram No. 22

Wilder, Windsor County, Vermont, International Paper Company plant, about 650 feet north of office, 146 feet west of northwest corner of headgate house and in line with north face of building, on top of bank west of conveyor, 25 feet southwest of corner of hydrant box, 63 feet east of wire netting fence. A granite post 5.5 feet long and 12 inches square set 4 feet in ground. The part above ground is dressed to 10 inches square. Bronze tablet in top stamped "Number 25—238 feet S. 81° 57' E." Elevation 408.143 feet. State line point is 238 feet S. 81° 57' E. from center of marker

Latitude 43° 40' 35.97" Longitude 72° 18' 14.92"

Vermont-New Hampshire State line point, 22 feet west of northeast corner of headgate house and about at the middle of bay window on north face, low water elevation 334 feet

Latitude 43° 40' 35.64" Longitude 72° 18' 11.71"

HANOVER QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

Chiseled cross at extreme northeast corner of masonry, 12 feet east of end of gate house

Latitude 43° 40' 35.59" Longitude 72° 18' 11.25"

Boundary Reference Monument No. 26. Diagram No. 22

Wilder, Windsor County, Vermont, near highway bridge over Connecticut River, 137.5 feet west of west end of, 60 feet north of highway, 61 feet west of a large pine tree, on brushy bank. A granite post 5.5 feet long and 12 inches square, set 4 feet in ground. The part above ground is dressed to 10 inches. Bronze tablet set in top and stamped "Number 26 184 feet S. 81° 34' E." Elevation 404.634 feet. State line point is 184 feet S. 81° 34' E. from center of marker

Latitude 43° 40' 42.26" Longitude 72° 18' 14.24"

Vermont-New Hampshire State line point, low water elevation 352 feet

Latitude 43° 40' 41.99" Longitude 72° 18' 11.76"

Chiseled cross on top of bridge abutment close to northwest corner of longer span

Latitude 43° 40' 41.91" Longitude 72° 18' 10.97"

**U. S. Coast and Geodetic Survey Bench Mark "F 6 1927".
Near Diagram No. 22**

Wilder, Windsor County, Vermont, opposite the Boston and Maine Railroad station, 24.6 feet east of east rail of main track. A standard U. S. Coast and Geodetic Survey disk stamped "F 6 1927" and set in top of concrete post. Elevation 407.804 feet

Latitude 43° 40' 21.49" Longitude 72° 18' 24.65"

See Appendix For Diagram 22 Page 193

HANOVER QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

Boundary Reference Monument No. 27. Diagram No. 23

Norwich-Hanover station, Windsor County, Vermont, 600 feet southeast of, 95 feet northwest from northwest corner of new open concrete highway bridge over the Connecticut River, 30 feet north of the center line of the Norwich-Hanover highway, 20 feet west of center line of a road leading north, 8.2 feet north of corner post of a metal fence enclosing the residence property of Leon Lewis, and close to the fence. A granite post $5\frac{1}{2}$ feet long and 12 inches square set $3\frac{1}{2}$ feet in the ground. The part above ground is dressed to 10 inches square. Bronze tablet set in top and stamped "Number 27—178 feet S. $73^{\circ} 00'$ E." Elevation 394.825 feet. State line point is 178 feet S. $73^{\circ} 00'$ E. from center of marker

Latitude $43^{\circ} 42' 14.50''$ Longitude $72^{\circ} 18' 03.77''$

Vermont-New Hampshire State line point, low water elevation 364 feet

Latitude $43^{\circ} 42' 13.99''$ Longitude $72^{\circ} 18' 01.45''$

**U. S. Coast and Geodetic Survey Bench Mark "G 6 1927".
Near Diagrams Nos. 23 and 24)**

Norwich, Windsor County, Vermont, 119 yards north of the Boston and Maine Railroad station, 151 yards north of an overhead bridge, 27.7 feet west of the west rail of the main track. A standard U. S. Coast and Geodetic Survey disk stamped "G 6 1927" and set in top of a concrete post. Elevation 400.688 feet

Latitude $43^{\circ} 42' 21.02''$ Longitude $72^{\circ} 18' 06.73''$

**U. S. Geological Survey Bench Mark "400". North of
Diagram No. 24**

Norwich-Hanover station, Windsor County, Vermont, 2.1 miles north of, Pompanoosuc, Windsor County, Vermont, 3.25 miles southwest of, along the Boston and Maine Railroad, 200 yards south of semaphore 64, 25 feet east of track. A standard U. S. Geological Survey cap stamped "400" and riveted on the top of a 3.5-inch iron pipe. Elevation 400.275 feet

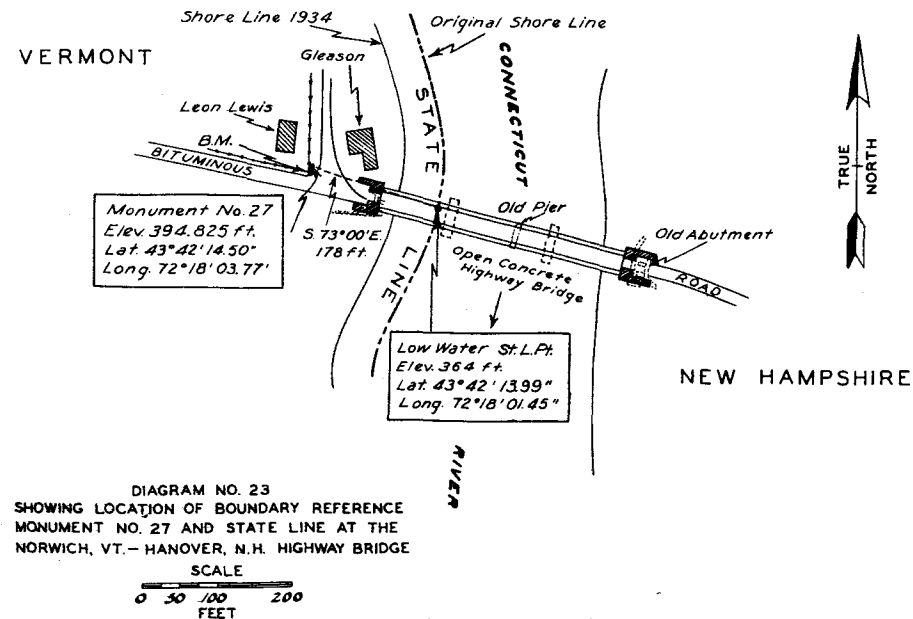
Latitude $43^{\circ} 43' 42.93''$ Longitude $72^{\circ} 16' 33.95''$

HANOVER QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

**U. S. Coast and Geodetic Survey Bench Mark "H 6 1927".
North of Diagram No. 24**

Pompanoosuc, Windsor County, Vermont, 2.25 miles south of, along Boston and Maine Railroad, 0.25 mile south of semaphore 75, opposite the north end of a long narrow island in Connecticut River, 33 feet west of west rail. A standard U. S. Coast and Geodetic Survey disk stamped "H 6 1927" and set in top of a concrete post. Elevation 400.088 feet

Latitude $43^{\circ} 44' 11.20''$ Longitude $72^{\circ} 15' 39.67''$



HANOVER QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

Boundary Reference Monument No. 28. Diagram No. 24

Norwich-Hanover station, Windsor County, Vt., 850 feet north of, 105 feet southeast of center line of main track of the Boston and Maine Railroad, 23 feet northwest of center line of River Road, 2½ feet from a corner post of a coal yard fence. A granite post 5½ feet long and 12 inches square, set 3½ feet in the ground. The part above ground is dressed to 10 inches square. Bronze tablet set in top and stamped "Number 28 180 feet S. 60° 15' E." Elevation 386.584 feet. State line point is 180 feet S. 60° 15' E. from center of marker.

Latitude 43° 42' 24.49" Longitude 72° 18' 02.18"

Vermont-New Hampshire State line point, low water elevation 364 feet

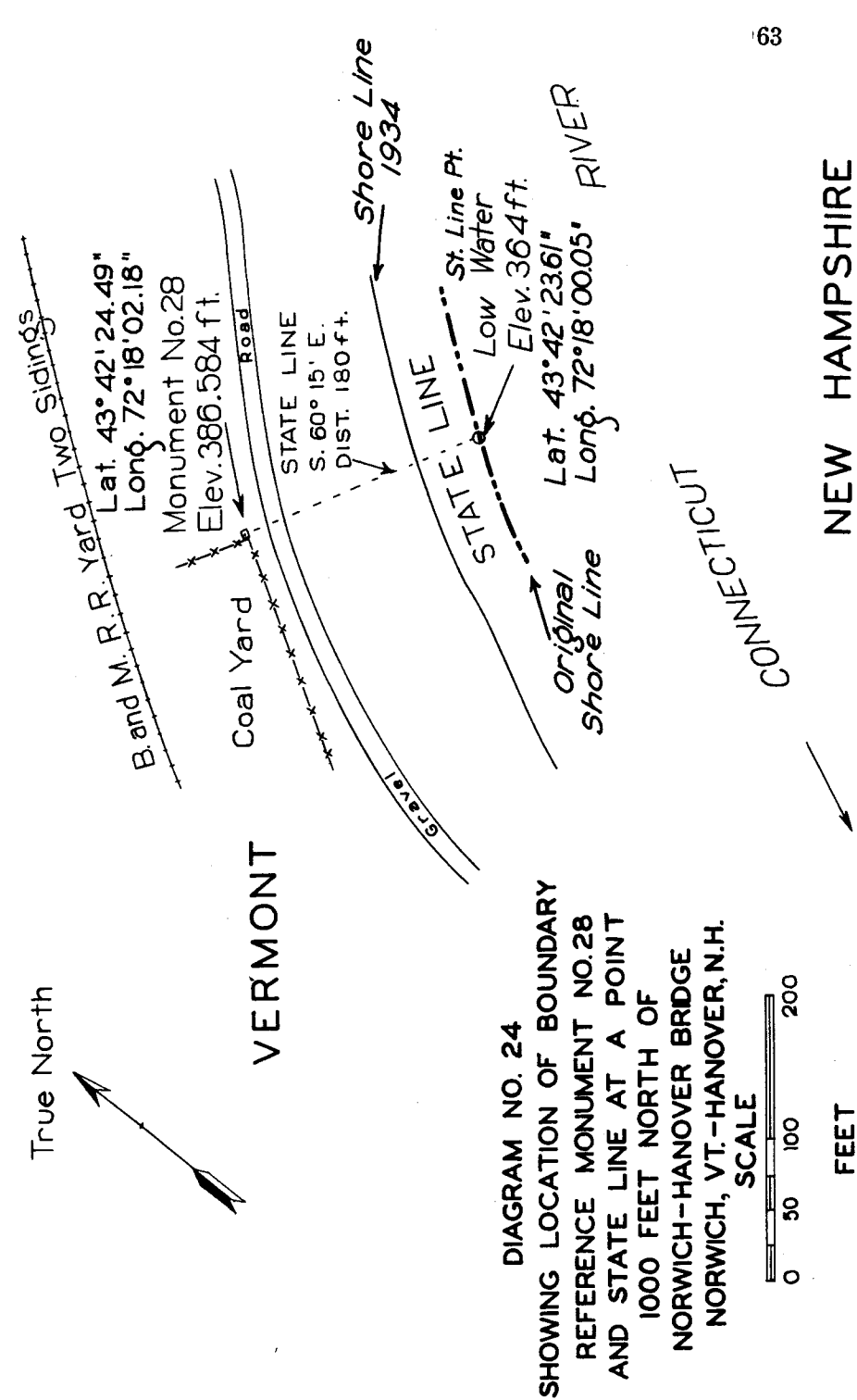
Latitude 43° 42' 23.61" Longitude 72° 18' 00.05"

Tie Point: Triangulation Station Observatory Hill, U. S. Coast and Geodetic Survey Station. Near Diagrams Nos. 23 and 24

Hanover, New Hampshire, near Dartmouth College, about 200 feet N. 50° E. (true) from dome of Observatory, 210 feet S. 11° W. (true) from observation tower, on highest pinnacle of a rock outcrop.

Station mark: Copper bolt in depression in ledge, three anchor bolts are in evidence

Latitude 43° 42' 19.79" Longitude 72° 17' 08.07"



MOUNT CUBE QUADRANGLE, VERMONT-NEW HAMPSHIRE

Boundary Reference Monument No. 29. Diagram No. 25

Thetford station, Orange County, Vt., 1,200 feet south-east of, 875 feet east of road crossing, 510 feet south of the station, 168 feet west of west end of 3-span steel truss highway bridge over Connecticut River, 47 feet southwest of the southwest corner of H. Smith's house, 2½ feet southwest of corner of fence dividing the properties of H. Smith and Max Hill, 20 feet north of center line of highway, on highway property. A granite post 5½ feet long and 12 inches square set 3 feet 8 inches in the ground. The part above ground is dressed to 10 inches square. Bronze tablet set in top and stamped "Number 29 203 ft. N. 71° 35' E." Elevation 398.341 feet. State line point is 203 feet N. 71° 35' E. from center of marker

Latitude 43° 48' 42.80" Longitude 72° 11' 05.88"

Vermont-New Hampshire State line point, low water elevation 367 feet

Latitude 43° 48' 43.43" Longitude 72° 11' 03.25"

U. S. Coast and Geodetic Survey Bench Mark "J 6 1927".
South of Diagram No. 25

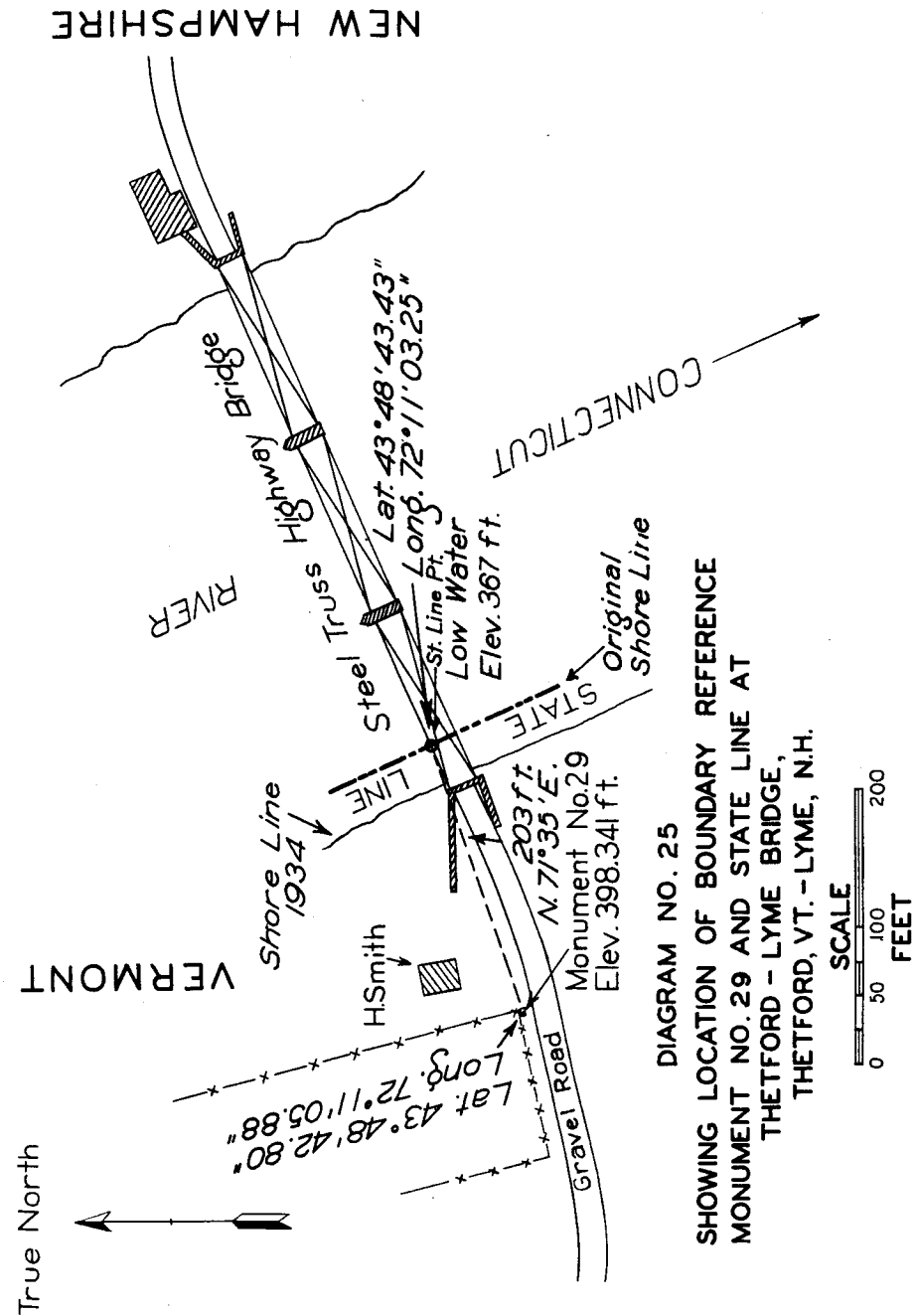
Pompanoosuc, Windsor County, Vermont, opposite the Boston and Maine Railroad station in, 34 feet east of east rail. A standard U. S. Coast and Geodetic Survey disk stamped "J 6 1927" and set in the top of a concrete post. Elevation 391.797 feet

Latitude 43° 45' 22.58" Longitude 72° 13' 37.41"

U. S. Coast and Geodetic Survey Bench Mark "K 6 1927".
South of Diagram No. 25A

Thetford, Orange County, Vermont, 1.4 miles south of along the Boston and Maine Railroad, 33 feet south of milepost 13, 47 yards south of center of Highway No. 5 crossing, 8.9 feet west of west rail. A standard U. S. Coast and Geodetic Survey disk stamped "K 6 1927" and set in top of a concrete post. Elevation 404.058 feet

Latitude 43° 47' 48.94" Longitude 72° 11' 44.80"



MOUNT CUBE QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

Boundary Reference Monument No. 30. Diagram No. 26

Northboro station, Orange County, Vt., 640 feet south of, 33 feet N. $63^{\circ} 00' W.$ from center of crossing of a public road and the Boston and Maine Railroad, on property of Harry Barber. A granite post $6\frac{1}{2}$ feet long and 12 inches square set $4\frac{1}{2}$ feet in the ground. The part above ground is dressed to 10 inches square. Bronze tablet in top stamped "Number 30 212 ft. S. $85^{\circ} 15' E.$ " Elevation 398.950 feet. State line point is 212 ft. S. $85^{\circ} 15' E.$ from center of marker

Latitude $43^{\circ} 50' 32.63''$ Longitude $72^{\circ} 11' 04.01''$

Vermont-New Hampshire State line point, low water elevation 368 feet

Latitude $43^{\circ} 50' 32.46''$ Longitude $72^{\circ} 11' 01.13''$

U. S. Coast and Geodetic Survey Bench Mark "L 6 1927".
Near Diagram No. 26

Northboro station, Orange County, Vermont, 780 feet south of, along the Boston and Maine Railroad, 125 feet south of a public road crossing, 18.5 feet north of semaphore 162, 9.7 feet west of west rail. A standard U. S. Coast and Geodetic Survey disk stamped "L 6 1927" and set in top of a concrete post. Elevation 395.147 feet

Latitude $43^{\circ} 50' 31.20''$ Longitude $72^{\circ} 11' 03.65''$

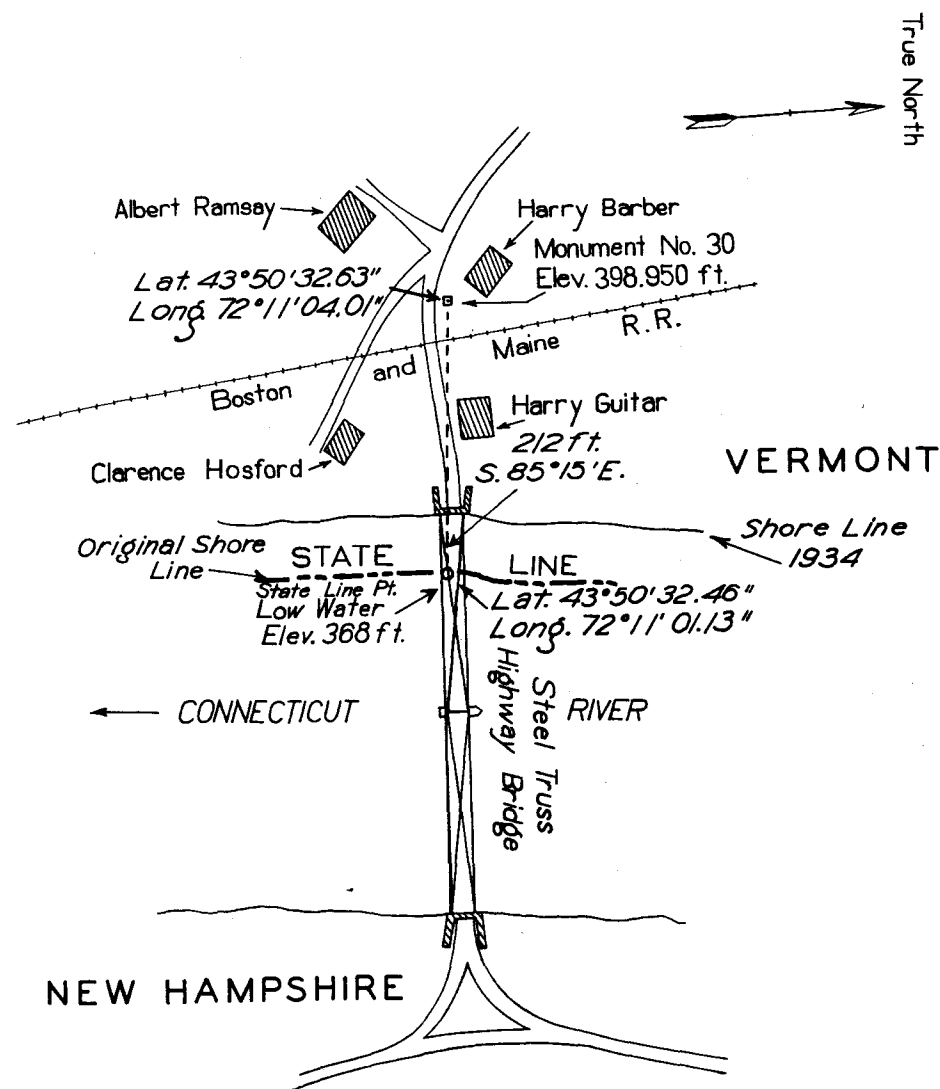
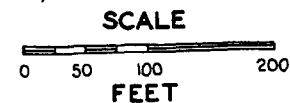


DIAGRAM NO. 26
SHOWING LOCATION OF BOUNDARY REFERENCE MONUMENT NO. 30
AND STATE LINE AT LYME - NORTHBORO HIGHWAY BRIDGE
LYME, N.H. - THETFORD, VT.



MOUNT CUBE QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

Boundary Reference Monument No. 31. Diagram No. 27

Fairlee, Orange County, Vt., 1,150 feet northeast of station in, 175 feet southeast of the Boston and Maine Railroad at crossing of road leading to Orford-Fairlee Bridge, 75 feet northwest of the northwest end of the bridge, 20 feet northwest of the center line of road. A granite post $6\frac{1}{2}$ feet long and 12 inches square set $4\frac{1}{2}$ feet in ground, the part above ground is dressed to 12 inches square. Bronze tablet set in top and stamped "Number 31—158 ft. S. $27^{\circ} 52' E.$ " Elevation 417.698 feet. State line point is 158 feet S. $27^{\circ} 52' E.$ from center of marker

Latitude $43^{\circ} 54' 28.42''$ Longitude $72^{\circ} 08' 26.16''$

Vermont-New Hampshire State line point, low water elevation 369 feet

Latitude $43^{\circ} 54' 27.04''$ Longitude $72^{\circ} 08' 25.15''$

NOTE.—Bridge to be rebuilt 1936—and monument will be partly covered.

U. S. Geological Survey Bench Mark "441". Near Diagram No. 27

Fairlee, Orange County, Vermont, 2.4 miles north of, along the Boston and Maine Railroad, 420 feet south of a private road crossing which is directly in front of house on east side of track, 9.5 feet west of west rail, in a rock outcrop, 2 feet higher than the track. A standard U. S. Geological Survey aluminum disk stamped "441". Elevation 440.796 feet

Latitude $43^{\circ} 56' 07.06''$ Longitude $72^{\circ} 07' 13.38''$

U. S. Coast and Geodetic Survey Bench Mark "R 6 1927"

Fairlee, Orange County, Vermont, 2.5 miles, north of, along the Boston and Maine Railroad, 27 feet north of private road crossing leading to house owned by George Foot, 7.5 feet east of east rail. A standard U. S. Coast and

MOUNT CUBE QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

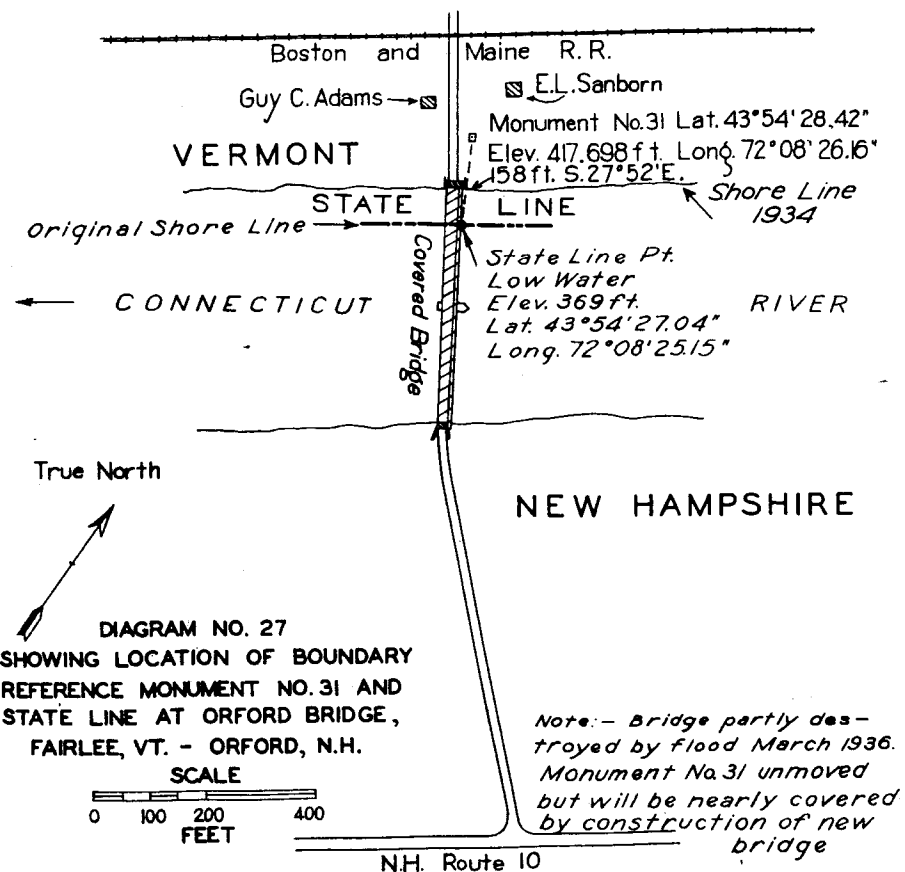
Geodetic Survey disk stamped "R 6 1927" and set in top of a concrete post. Elevation 439.625 feet

Latitude $43^{\circ} 56' 11.36''$ Longitude $72^{\circ} 07' 12.33''$

U. S. Coast and Geodetic Survey Bench Mark "Q 6 1927".

Fairlee, Orange County, Vermont. Opposite the Boston and Maine Railroad station, 27.4 feet east of east rail. A standard U. S. Coast and Geodetic Survey disk stamped "Q 6 1927" and set in top of a concrete post. Elevation 436.233 feet

Latitude $43^{\circ} 54' 22.67''$ Longitude $72^{\circ} 08' 40.07''$



MOUNT CUBE QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

Boundary Reference Monument No. 32. Diagram No. 28

Piermont Station, Boston and Maine Railroad, Windsor County, Vt., 0.4 mile southeast of; at Bradford-Piermont steel truss highway bridge over the Connecticut River, in line with center line of bridge and 178.6 ft. west of west end of bridge, 5 feet west of top of steep bank and in line with fence between the farm of Mr. Henry M. Pierson and a lot owned by Mr. Frank de Acosta. A granite post 6½ ft. long and 12 inches square set 5 ft. in ground. The part above ground is dressed to 10 inches square. Bronze tablet set in top and stamped "Number 32—215 ft. N. 83° 08' E." Elev. 423.364 feet. State line point is 215 ft. N. 83° 08' E. from center of marker

Latitude 43° 58' 40.77" Longitude 72° 06' 50.03"

Vermont-New Hampshire State line point, low water elevation 372 ft.

Latitude 43° 58' 41.02" Longitude 72° 06' 47.11"

**U. S. Coast and Geodetic Survey Bench Mark "S 6 1927".
Near Diagram No. 28**

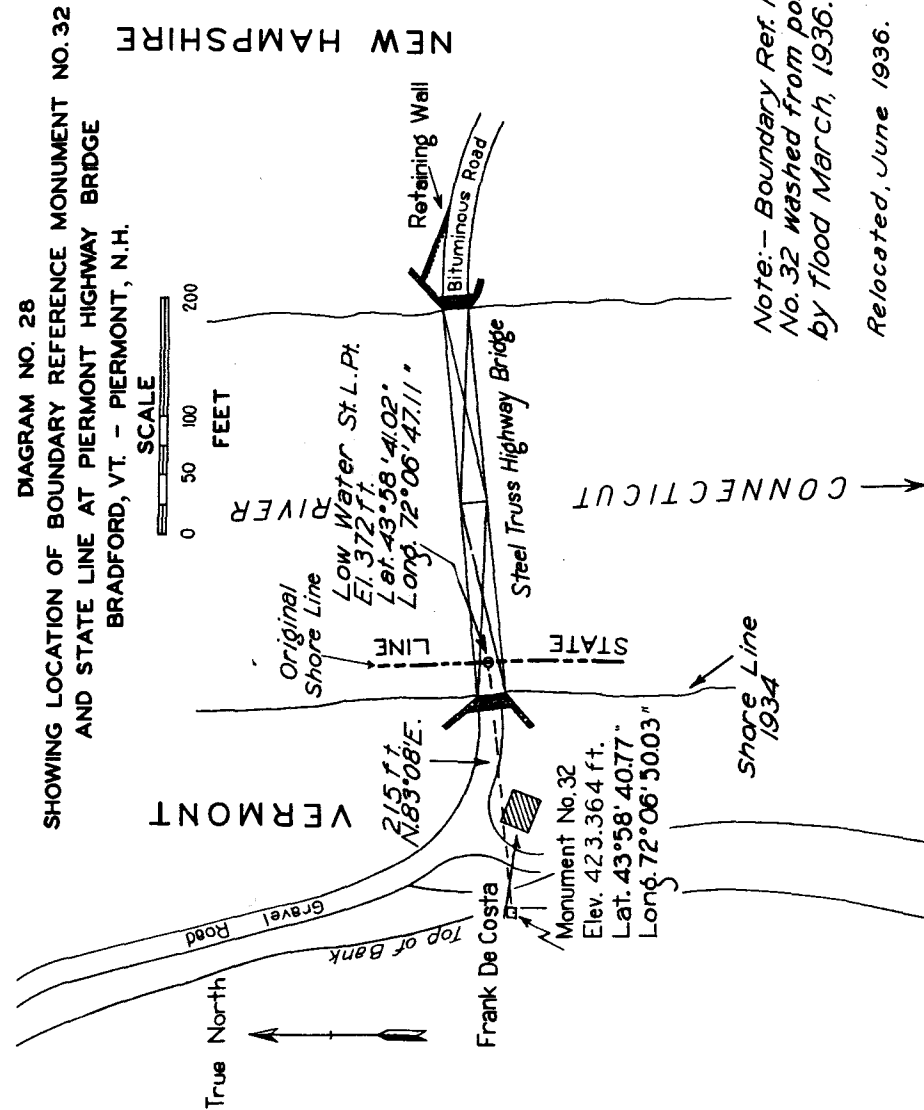
Piermont station. Orange County, Vermont, 90 yards north of the Boston and Maine Railroad station, 18.8 feet west of the west rail. A standard U. S. Coast and Geodetic Survey disk stamped "S 6 1927" and set in top of a concrete post. Elevation 428.992 feet

Latitude 43° 58' 55.22" Longitude 72° 07' 04.20"

**U. S. Coast and Geodetic Survey Bench Mark "T 6 1927".
Near Diagram No. 28**

Bradford, Orange County, Vermont, 25 yards north of the Boston and Maine Railroad station, 18.9 feet west of west rail. A standard U. S. Coast and Geodetic Survey disk stamped "T 6 1927," and set in top of a concrete post Elevation 404.254 feet

Latitude 43° 59' 55.09" Longitude 72° 07' 06.41"



WOODSVILLE QUADRANGLE, VERMONT-NEW HAMPSHIRE

U. S. Coast and Geodetic Survey Bench Mark "P 8 1927".
Near Diagram No. 29

Conicut, Orange County, Vt., directly opposite the Boston and Maine Railroad station, 14.3 feet west of west rail. A standard U. S. Coast and Geodetic Survey disk stamped "P 8 1927" set in top of a concrete post. Elevation 408.329 feet

Latitude $44^{\circ} 02' 42.35''$ Longitude $72^{\circ} 04' 39.59''$

Boundary Reference Monument No. 33. Diagram No. 29

Conicut station, Orange County, Vt., 0.1 mile northeast of, 140 feet southeast of southeast end of a wooden bridge over the Boston and Maine Railroad, 153 feet northwest of the west corner of Bedell Bridge over the Connecticut River, 21 feet N. 62° W. from the west corner of residence of Mrs. Pearl Dickey, 15 feet northeast of center line of road leading to bridge. A granite post $6\frac{1}{2}$ feet long and 12 inches square set 5 feet in ground. Part above ground is dressed to 10 inches square. Bronze tablet set in top and stamped "Number 33—187 feet S. $41^{\circ} 57'$ E." Elevation 418.522 feet. State line point is 187 feet S. $41^{\circ} 57'$ E. from center of marker.

Latitude $44^{\circ} 02' 45.97''$ Longitude $72^{\circ} 04' 32.25''$

Vermont-New Hampshire State line point, low water elevation 374 feet.

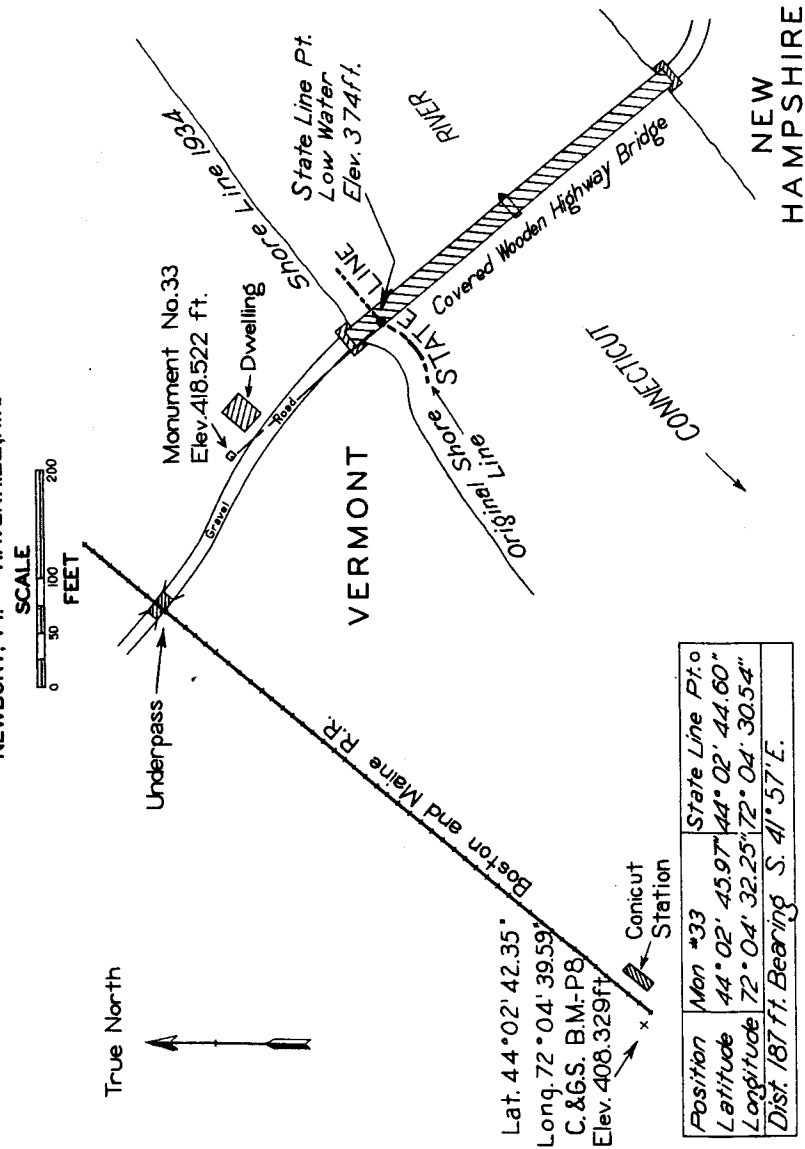
Latitude $44^{\circ} 02' 44.60''$ Longitude $72^{\circ} 04' 30.54''$

U. S. Coast and Geodetic Survey Bench Mark "Q 8 1927".
Near Diagram No. 29

Bradford, Orange County, Vermont, 1.7 miles north along the Boston and Maine Railroad from, about 0.1 mile north of milepost 30, 14 feet south of center of a private road crossing, 26.6 feet west of west rail; a standard U. S. Coast and Geodetic Survey disk stamped "Q 8 1927", set in top of a concrete post. Elevation 402.594 feet

Latitude $44^{\circ} 01' 06.48''$ Longitude $72^{\circ} 05' 57.28''$

DIAGRAM NO. 29
SHOWING LOCATION OF BOUNDARY REFERENCE MONUMENT NO. 33
AND STATE LINE AT BELLELL HIGHWAY BRIDGE, CONICUT,
NEWBURY, VT. - HAVERHILL, N.H.



NEW HAMPSHIRE

WOODSVILLE QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

Boundary Reference Monument No. 34. Diagram No. 30

Newbury station, Orange County, Vt., about 1 mile south of, 0.2 mile east along a public road from its crossing with the Boston and Maine Railroad, 227 feet northwest of the northwest end of Keyes Bridge over the Connecticut River, and 17 feet north of center line of road leading to bridge. A granite post 6½ feet long and 12 inches square set 5 feet in the ground. Part above ground dressed to 10 inches square. Bronze tablet in top stamped "Number 34 264 ft. S. 47° 07' E." Elevation 405.767 feet. State line point is 264 feet S. 47° 07' E. from center of marker

Latitude 44° 04' 02.18" Longitude 72° 03' 09.04"

Vermont-New Hampshire State line point, low water elevation 376 feet

Latitude 44° 04' 00.41" Longitude 72° 03' 06.39"

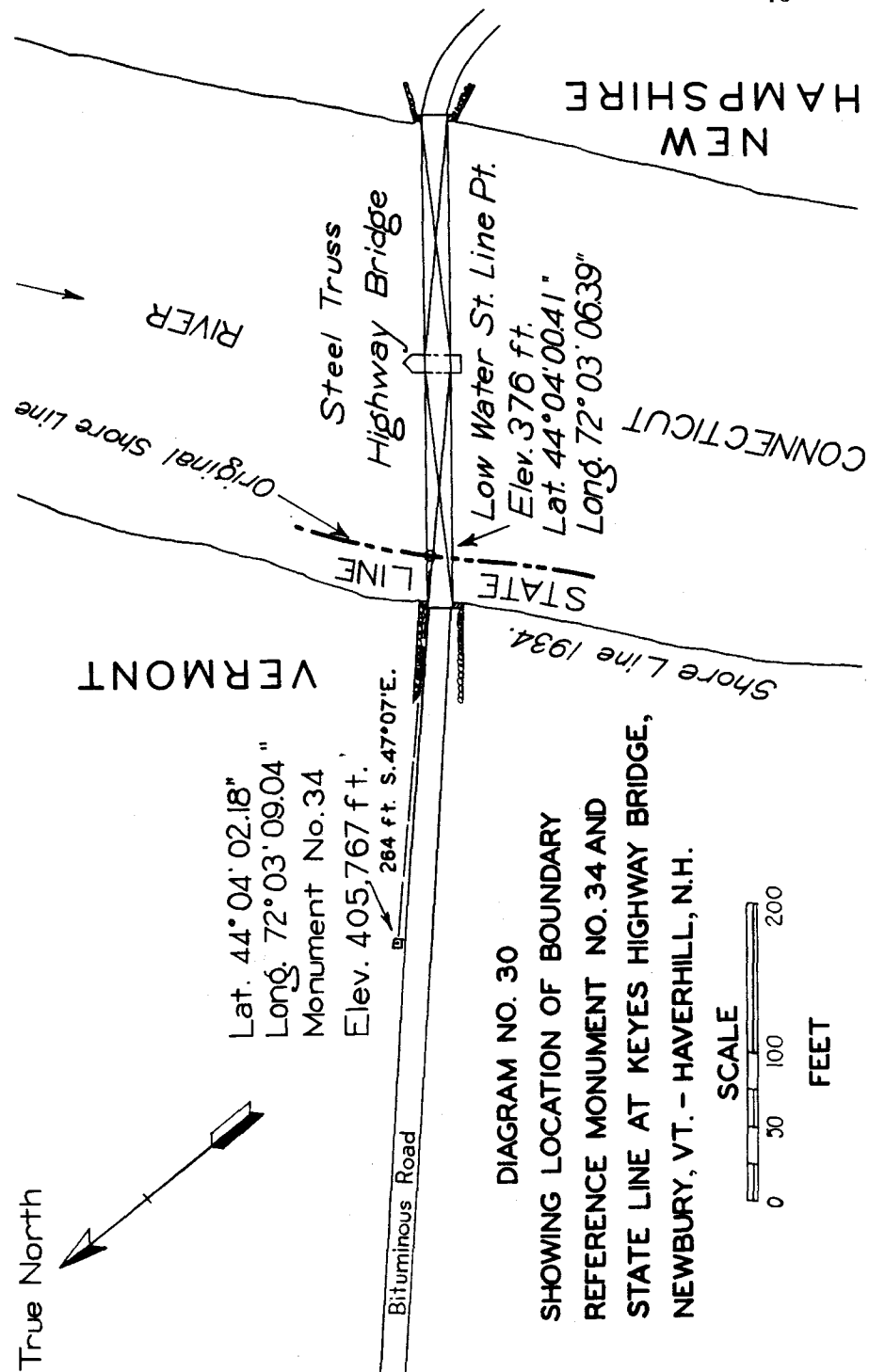
Tie Point: Newbury Congregational Church Spire. U. S. Coast and Geodetic Survey Triangulation Station (No Description)

Latitude 44° 04' 47.35" Longitude 72° 03' 25.37"

**U. S. Coast and Geodetic Survey Bench Mark "N 8 1927".
Near Diagram No. 30**

Conicut, Orange County, Vermont, about 1.3 miles north of along the Boston and Maine Railroad, in west end of a concrete culvert, 8 feet west of west rail. A standard U. S. Coast and Geodetic Survey disk stamped "N 8 1927." Elevation 405.596 feet

Latitude 44° 03' 43.57" Longitude 72° 03' 55.52"



WOODSVILLE QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

Boundary Reference Monument No. 35. Diagram No. 31

Wells River, Orange County, Vt., 2.3 miles south of, on C. H. McAllister farm and near the top of the bank of the Connecticut River. It is N. 85° E. (true) 1,436 feet from U. S. Coast and Geodetic Survey bench mark "L 8 1927", described as follows:

Wells River, Orange County, Vt., 2.3 miles south of, 1,700 feet north of milepost W-3, 400 feet north of the south end of a ¾-mile tangent, 200 feet north of north end of a red barn east of the track, 36.6 feet west of west rail. A U. S. Coast and Geodetic Survey standard disk set in top of a concrete post and stamped "L 8 1927." Boundary Reference Monument No. 35 is a granite post 6½ feet long and 12 inches square, set 5 feet in ground. Part above ground is dressed to 10 inches square. Bronze tablet in top stamped "Number 35 26 feet S. 48° 50' E." Elevation 407.212 feet. State line point is 26 feet S. 48° 50' E. from center of marker

Latitude 44° 07' 27.89" Longitude 72° 02' 48.00"

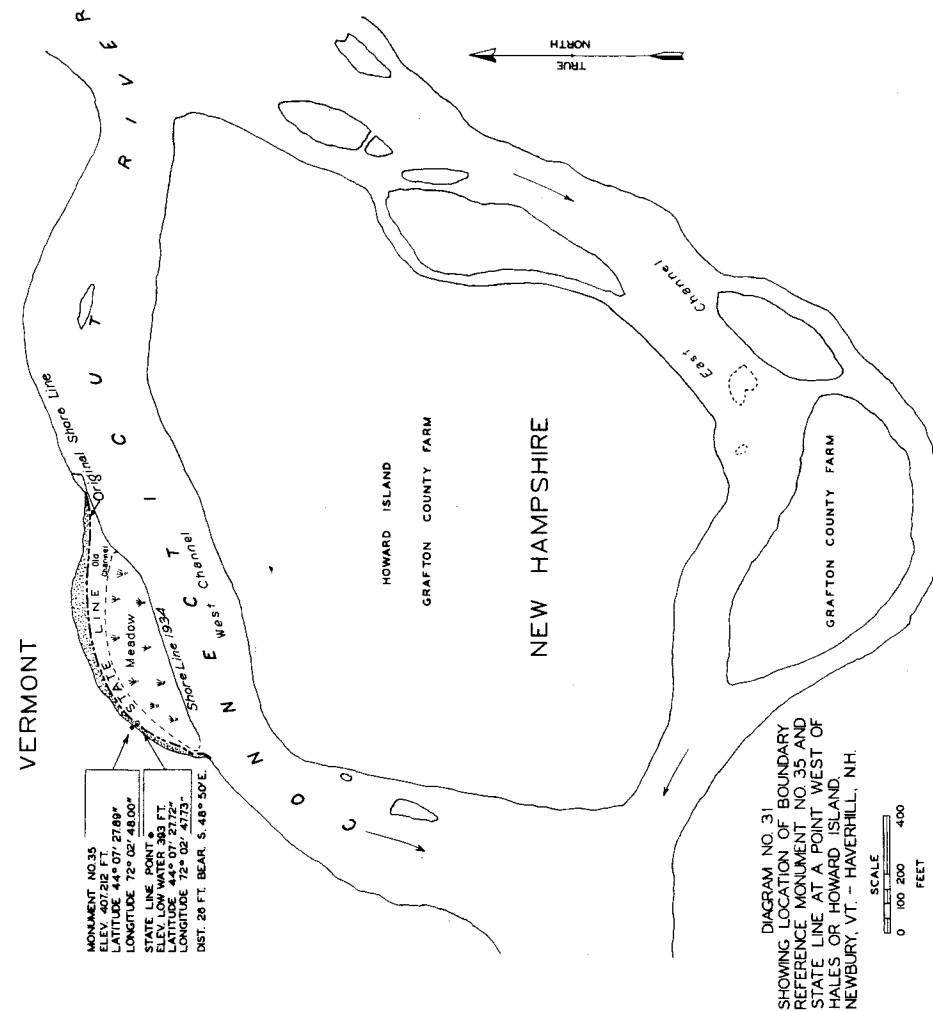
Vermont-New Hampshire State line point, low water elevation 393 feet

Latitude 44° 07' 27.72" Longitude 72° 02' 47.73"

**U. S. Coast and Geodetic Survey Bench Mark "L 8 1927".
West of Diagram No. 31**

Wells River, Orange County, Vt., 2.3 miles south of, along the Boston and Maine Railroad, 36.6 feet west of west rail. A standard U. S. Coast and Geodetic Survey disk stamped "L 8 1927" set in top of a concrete post. Elevation 411.928 feet

Latitude 44° 07' 26.68" Longitude 72° 03' 07.24"



WOODSVILLE QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

Boundary Reference Monument No. 36. Diagram No. 32

Wells River, Orange County, Vermont, at highway bridge over the Connecticut River, 131 feet west of west end of bridge, about 75 feet northwest of center line of a paved road, near a wire fence. A granite post $6\frac{1}{2}$ feet long and 12 inches square, set $4\frac{1}{2}$ feet in the ground. The part above ground is dressed to 12 inches square. Bronze tablet in top stamped "Number 36 153 feet S. $84^{\circ} 55'$ E." Elevation 440.867 feet. State line point is 153 feet S. $84^{\circ} 55'$ E. from center of marker

Latitude $44^{\circ} 09' 15.95''$ Longitude $72^{\circ} 02' 32.69''$

Vermont-New Hampshire State line point, low water elevation 397 feet

Latitude $44^{\circ} 09' 15.82''$ Longitude $72^{\circ} 02' 30.60''$

Boundary Reference Monument No. 37. Diagram No. 32

Wells River, Orange County, Vt., at the Boston and Maine Railroad bridge over the Connecticut River, near the junction of the west abutment and the southwest wing wall, between the face of the wall and a road passing under the bridge. A granite post $6\frac{1}{2}$ feet long and 12 inches square, set $4\frac{1}{2}$ feet in the ground. The part above ground is dressed to 12 inches square. Bronze tablet set in top stamped "Number 37 75 feet S. $89^{\circ} 48'$ E." Elevation 433.761 feet. State line point is 75 feet S. $89^{\circ} 48'$ E. from center of marker

Latitude $44^{\circ} 09' 17.20''$ Longitude $72^{\circ} 02' 30.89''$

Vermont-New Hampshire State line point, low water elevation 397 feet

Latitude $44^{\circ} 09' 17.20''$ Longitude $72^{\circ} 02' 29.87''$

**U. S. Coast and Geodetic Survey Bench Mark "K 8 1927".
North of Diagram No. 32**

Wells River, Orange County, Vt., in village of, on the Canadian Pacific Railway, 675 feet north of the north end of the station, at Randall crossing, 20 feet south of the

WOODSVILLE QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

center line of road, 8 feet west of west rail. A standard U. S. Coast and Geodetic Survey disk stamped "K 8 1927," set in top of a concrete post. Elevation 460.760 feet

Latitude $44^{\circ} 09' 22.27''$ Longitude $72^{\circ} 02' 44.40''$

**U. S. Geological Survey Bench Mark "Mac 13 1925" Near
Diagram No. 32**

Woodsville, Grafton County, N. H., 950 feet north of Boston and Maine Railroad station, at southeast corner of railroad bridge over the Connecticut River, in top of abutment; standard U. S. Geological Survey tablet stamped "Mac 13 1925" Elevation 453.910 feet

Latitude $44^{\circ} 09' 17.18''$ Longitude $72^{\circ} 02' 26.21''$

WOODSVILLE QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

Boundary Reference Monument No. 38. Diagram No. 33

Wells River, Orange County, Vt., 0.5 mile north of, at the point locally known as the "Narrows" (in Caledonia County), at the foot of the trail leading down from a baseball field. Bronze tablet set in a rock ledge, stamped "Number 38 24 feet N. 61° 49' E." Elevation 430.803 feet. State line point is 24 feet N. 61° 49' E. from center of marker

Latitude 44° 09' 42.26" Longitude 72° 02' 34.33"

Vermont-New Hampshire State line point, low water elevation 400 feet

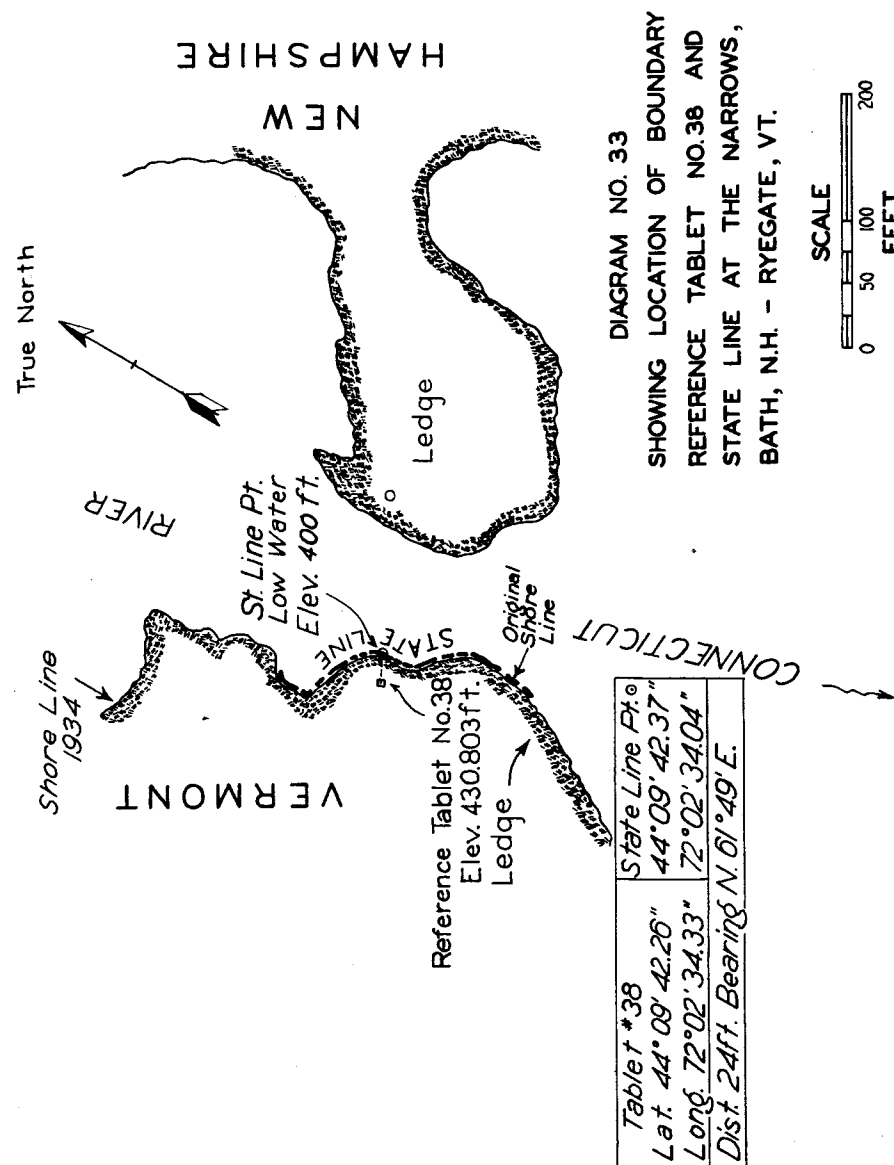
Latitude 44° 09' 42.37" Longitude 72° 02' 34.04"

Chiseled cross on New Hampshire side of river, directly opposite and 147 feet distant from Boundary Reference Tablet No. 38

Latitude 44° 09' 42.95" Longitude 72° 02' 32.55"

Chiseled cross on Vermont side of river, 187 feet northwest of Boundary Reference Tablet No. 38

Latitude 44° 09' 43.19" Longitude 72° 02' 35.10"



WOODSVILLE QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

Boundary Reference Monument No. 38-A. Diagram No. 34

East Ryegate, Caledonia County, Vt., Boston and Maine (Canadian Pacific) Railroad station, 800 ft. northeast of: 834 ft. south of S. E. corner of Pulp Mill, 229 ft. east of center of spur track to paper mill, in line with the front of a row of three company dwelling houses, 134 ft. S. 34° 20' E. from the southwest corner, 132 ft. S. 21° 20' E. from the southeast corner of the southernmost house and 30 ft. west of the center of a road leading from mill south along the Connecticut River. A granite post 6½ ft. long and 14 inches square set 5 ft. in ground. The part above ground is dressed to 12 inches square. Bronze tablet set in top and stamped "Number 38-A 233 ft. S. 88° 16' E." Elev. 429.496 ft. State line point is 233 ft. S. 88° 16' E. from center of marker

Latitude 44° 12' 21.05" Longitude 72° 03' 32.54"

Vermont-New Hampshire State line point, low water elev. 402 ft.

Latitude 44° 12' 20.98" Longitude 72° 03' 29.34"

Boundary Reference Tablet No. 39. Diagram No. 34

East Ryegate, Caledonia County, Vt., Boston and Maine (Canadian Pacific) Railroad station, 0.5 mile north of, at the Ryegate Paper Co. mill and dam, set in top of concrete pier 59 ft. long and 12 ft. wide which stands on solid rock between the forebay and the west end of the wooden dam, the top of which is 14 ft. above the crest of dam, in line with crest of dam, 2 ft. west of east face and 21.15 ft. south of the north face of pier and is 10.34 ft. south from a New England Paper Co. B. M. tablet set in top of same pier and stamped "N E P Co Elev. 434.39, R. P. Co. El. 104.09." Bronze tablet stamped "Number 39—34 ft. N. 70° 15' E." Elev. 434.646 ft. State line point is 34 ft. N. 70° 15' E. from center of marker

Latitude 44° 12' 29.87" Longitude 72° 03' 32.17"

Vermont-New Hampshire State line point, low water elev. 405 ft.

Latitude 44° 12' 29.98" Longitude 72° 03' 31.73"

New England Paper Co. and Ryegate Paper Co. brass B. M. tablet set in pier and stamped "N E P Co El. 434.39, R. P. Co. El. 104.09." Elev. by Boundary Commission 434.662 ft.

Latitude 44° 12' 29.97" Longitude 72° 03' 32.17"

New England Power Association brass hexagonal B. M. tablet set in ledge along west edge of mill race at Ryegate Paper Co. dam. Elev. by Bdy. Com. 430.675 ft.

Latitude 44° 12' 30.40" Longitude 72° 03' 33.36"

WOODSVILLE QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

East Ryegate. Diagram No. 34

NOTE.—State line crossing at dam determined from inspection of Respondent's exhibit "D," tracing Dodges Falls, Connecticut River near Bath, N. H. by J. I. Williams and Ray T. Gile 1884—60 ft. = 1 inch; also from blue print George F. Hardy, 1904, showing location of original shore line of River at East Ryegate, Vt. Scale 40 ft = 1 inch.

First dam built in 1808.

Present dam built in 1905.

**U. S. Coast and Geodetic Survey Bench Mark "J 8 1927".
Near Diagram No. 34**

East Ryegate, Caledonia County, Vermont, 1.45 miles south of, along the Canadian Pacific Railway, 1,770 feet south of a third-class road crossing, in a conspicuous ledge of bedrock, 10 feet west of west rail, 3 feet higher than the track. A standard U. S. Coast and Geodetic Survey disk stamped "J 8 1927". Elevation 441.062 feet

Latitude 44° 11' 11.94" Longitude 72° 03' 50.03"

U. S. Coast and Geodetic Survey Bench Mark "H 8 1927"

East Ryegate, Caledonia County, Vermont, in village of, at Canadian Pacific Railway passenger station, at south end of platform, 13 feet west of west rail. A standard U. S. Coast and Geodetic Survey disk stamped "H 8 1927", set in top of a concrete post. Elevation 471.590 feet

Latitude 44° 12' 18.43" Longitude 72° 03' 39.97"

**U. S. Coast and Geodetic Survey Bench Mark "G 8 1927"
Near Diagram No. 34**

McIndoes, Caledonia County, Vermont, 1.3 miles south of, along the Canadian Pacific Railway at Staples Crossing (a new highway has been built and this crossing is now a farm crossing.) 32 feet south of center line of road, 19 feet east of east rail. A standard U. S. Coast and Geodetic Survey disk stamped "G 8 1927", and set in top of a concrete post. Elevation 492.466 feet

Latitude 44° 14' 41.23" Longitude 72° 03' 15.30"

See Appendix For Diagram 34 Page 195

BARNET (PART OF LITTLETON) QUADRANGLE, VERMONT-NEW HAMPSHIRE

Boundary Reference Monument No. 40. Diagram No. 35

McIndoes, Caledonia County, Vt., 800 feet southeast of the Canadian Pacific Railway station at the McIndoes Falls development of the New England Power Association on a bank 168 feet west of the west end of the power house; and 10 feet east of a group of four elm trees. A granite post 6½ feet long and 12 inches square, set 5 feet in the ground. The part above ground is dressed and slopes to 10 inches square at the top. Bronze tablet in top stamped "Number 40—193 ft. N. 78° 56' E." Elevation 476.977 feet. State line point is 193 feet N. 78° 56' E. from center of marker

Latitude 44° 15' 36.17" Longitude 72° 03' 39.86"

Vermont-New Hampshire State line point, low water elevation 422 feet

Latitude 44° 15' 36.54" Longitude 72° 03' 37.25"

McIndoes, chiseled cross on concrete platform at southwest end of dam proper

Latitude 44° 15' 36.81" Longitude 72° 03' 35.31"

McIndoes, chiseled cross on platform at northeast end of concrete structure where it joins the flash boards at lower elevation

Latitude 44° 15' 38.69" Longitude 72° 03' 33.85"

**U. S. Coast and Geodetic Survey Bench Mark "F 8 1927"
Near Diagram No. 35**

McIndoes, Caledonia County, Vt., in front of Canadian Pacific Railway station, 20.9 feet east of east rail. A standard U. S. Coast and Geodetic Survey disk stamped "F 8 1927," and set in top of a concrete post. Elevation 484.691 feet

Latitude 44° 15' 44.79" Longitude 72° 03' 45.29"

Boundary Reference Monument No. 41. Diagram No. 35

McIndoes, Caledonia County, Vt., 180 feet northeast of the Canadian Pacific Railway station, in open meadow land

BARNET (PART OF LITTLETON) QUADRANGLE, VERMONT-NEW HAMPSHIRE—Continued

belonging to Connecticut River Valley Power Company, and in line with steel highway bridge over Connecticut River. A granite post 6½ feet long and 12 inches square, set 5 feet in the ground. The part above ground is dressed and slopes to 10 inches square at the top. Bronze tablet in top stamped "Number 41—590 ft. S. 75° 36' E." Elevation 465.935 feet. State line point is 590 ft. S. 75° 36' E. from center of marker

Latitude 44° 15' 43.85" Longitude 72° 03' 43.41"

Vermont-New Hampshire State line point, low water elevation 433 feet

Latitude 44° 15' 42.40" Longitude 72° 03' 35.56"

McIndoes, chiseled cross on wing wall of southwest abutment of steel highway bridge over Connecticut River

Latitude 44° 15' 42.35" Longitude 72° 03' 36.00"

McIndoes. Diagram No. 35

NOTE.—State line determined by inspection of N. E. Power Association Map No. H 3151-2 General Topography, Scale 1 inch = 100 feet dated Feb. 1929, edge of ice west bank Jan. 1929 cuts site of power house 25 feet east of west end of building or just at west edge of western one of 4 generating units—See also H 3985.

First dam erected at McIndoes in 1830-1835.
Present dam built in 1929.

See Appendix For Diagram 35 Page 196

BARNET (PART OF LITTLETON) QUADRANGLE, VERMONT-NEW HAMPSHIRE—Continued

Boundary Reference Monument No. 42. Diagram No. 36

Barnet, Caledonia County, Vt., 0.4 mile southwest of the Canadian Pacific Railway station, at an old covered highway bridge over Connecticut River, 45 feet northwest of the northwest end of bridge, on a solid rock ledge. A granite post 3 feet 4 inches long by 12 inches square, the upper 18 inches being dressed and tapering to 10 inches square at the top. A base of concrete about 3 feet square by 1 foot 10 inches is built around the post. Bronze tablet in top stamped "Number 42—75 feet S. 27° 26' E." Elevation 472.003 feet. State line point is 75 ft. S. 27° 26' E. from center of marker

Latitude 44° 17' 15.27" Longitude 72° 03' 27.39"

Vermont-New Hampshire State line point, low water elevation 438 feet

Latitude 44° 17' 14.61" Longitude 72° 03' 26.92"

NOTE.—There is some evidence that the point on which monument No. 42 is placed was once an island belonging to New Hampshire, but previous to erection of the dam at McIndoes, in 1830, which raised the river surface at Barnet Bridge 6 or 8 feet, the channel of river must have been east of this point or peninsular, therefore making the point belong to Vermont.

U. S. Coast and Geodetic Survey Bench Mark "E 8- 1927".
Near Diagram No. 36

Barnet, Caledonia County, Vt., 270 feet north of the north end of the Canadian Pacific Railway station, 30.7 feet north of a private road crossing and 13.2 feet east of east rail. A standard U. S. Coast and Geodetic Survey disk stamped "E 8 1927," set in top of a concrete post. Elevation 459.274 feet

Latitude 44° 17' 38.86" Longitude 72° 02' 55.66"

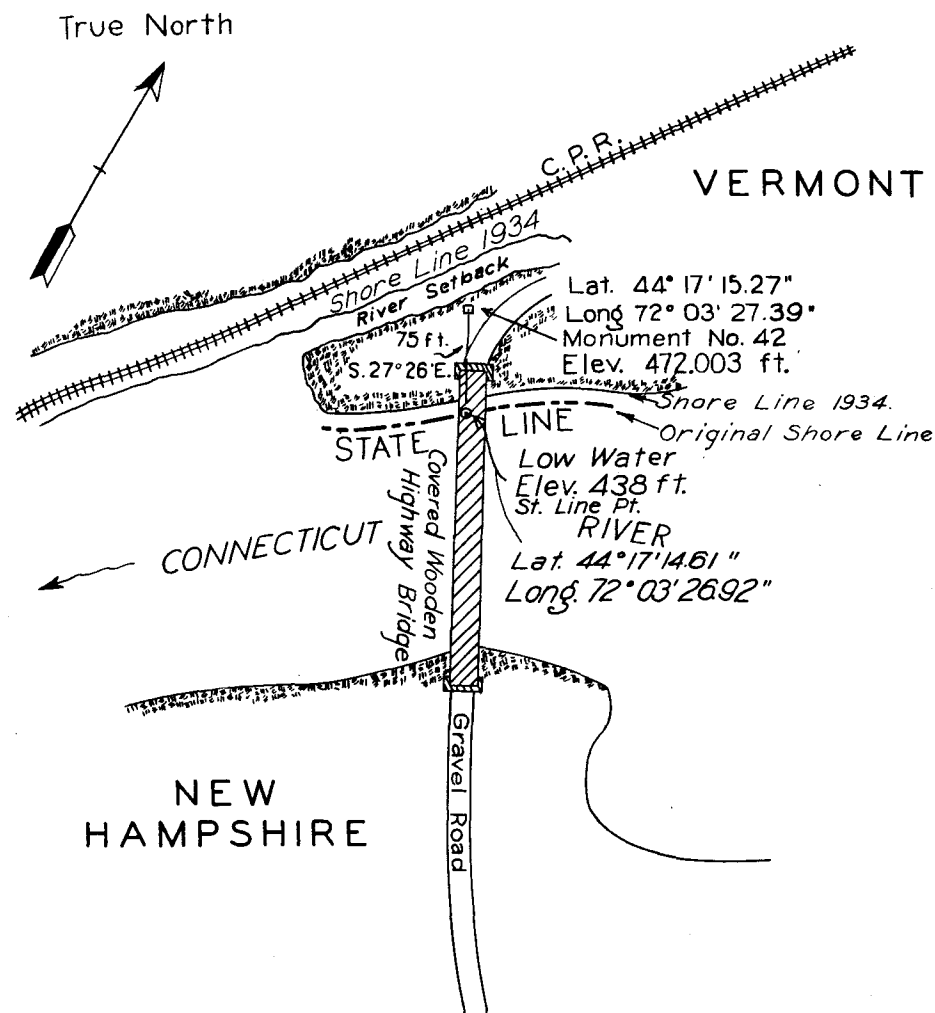


DIAGRAM NO. 36
SHOWING LOCATION OF BOUNDARY
REFERENCE MONUMENT NO. 42 AND
STATE LINE AT OLD HIGHWAY
BRIDGE ONE MILE BELOW BARNET, VT.



BARNET (PART OF LITTLETON) QUADRANGLE, VERMONT-NEW HAMPSHIRE—Continued

Boundary Reference Tablet No. 43. Diagram No. 37

Barnet, Caledonia County, Vt., 2.2 miles north of, along Canadian Pacific Railway, at the mouth of the Passumpsic River, 250 feet northeast of east end of railroad bridge over the Passumpsic River, northwest of the spur leading to the Fifteen-Mile Falls Lower Dam, and on a rock bluff about 40 feet higher than the track. Bronze tablet set in rock bluff and stamped "Number 43 150 feet S. 45° 45' E." Elevation 528.404 feet. State line point is 150 feet S. 45° 45' E. from center of marker

Latitude 44° 19' 16.67" Longitude 72° 01' 55.29"

Vermont-New Hampshire State line point, low water elevation 457 feet

Latitude 44° 19' 15.63" Longitude 72° 01' 53.81"

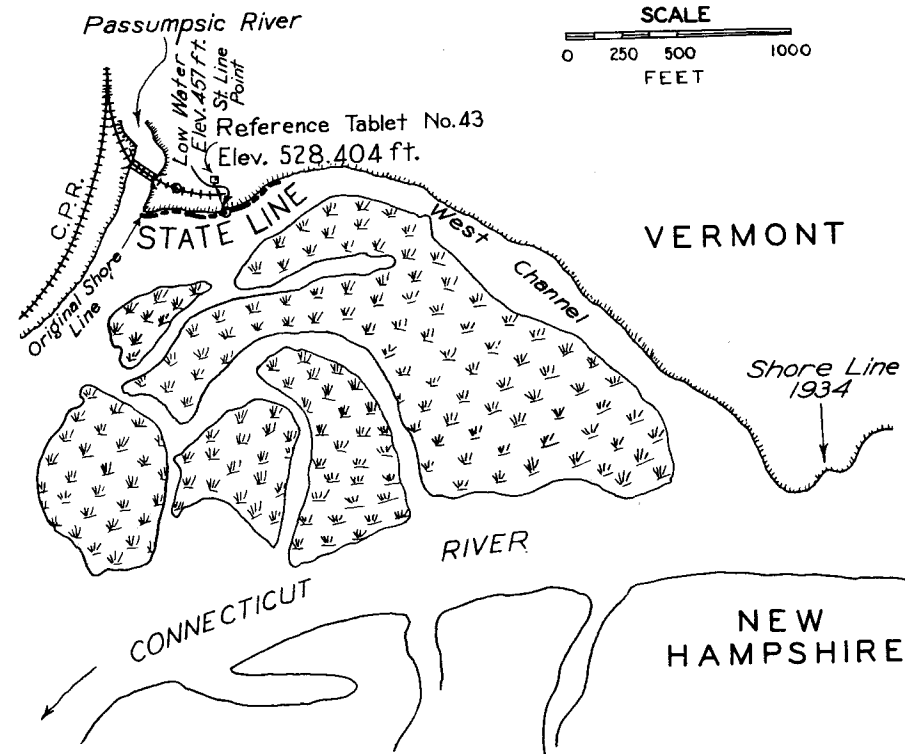
Tablet No. 43.	State Line Pt.
Latitude	Latitude
44° 19' 16.67"	44° 19' 15.63"
Longitude	Longitude
72° 01' 55.29"	72° 01' 53.81"
Dist. 150 ft. S. 45° 45' E.	

True North



DIAGRAM NO. 37
SHOWING LOCATION OF BOUNDARY
REFERENCE TABLET NO. 43 AND
STATE LINE AT MOUTH OF THE
PASSUMPSIC RIVER - BARNET, VT.

SCALE



BARNET (PART OF LITTLETON) QUADRANGLE, VERMONT-NEW HAMPSHIRE—Continued

Diagram No. 38

Fifteen-Mile Falls Lower Development, drill hole 3 inches deep in ledge of bedrock nearly in line with line of dam, 65.3 feet S. 41° E. (mag.) from southeast corner of office house at New England Power Construction Company.

Latitude 44° 19' 47.50" Longitude 72° 00' 01.18"

Boundary Reference Tablet No. 44. Diagram No. 38

At Fifteen-Mile Falls Lower Development, or the Frank D. Comerford Hydro-Electric Plant in Barnet Township, Caledonia County, Vt., 580 feet north of the north end of the dam, 80 feet east of the southeast corner of the information house, and on top of a knoll. Bronze tablet set in a solid rock outcrop and stamped "Number 44—1580 ft. S. 9° 43' W." Elevation 698.615 feet. State line point is 1,580 feet S. 9° 43' W. from center of marker

Latitude 44° 19' 47.58" Longitude 72° 00' 00.82"

State Line Marker No. 4. Diagram No. 38

At Fifteen-Mile Falls Lower Development Dam, Barnet Township, Caledonia County, Vt. Monroe Township, Grafton County, N. H., 250 feet north of large doorway of brick superstructure on the dam at the New Hampshire end, between the second and third transformers from the Vermont end, near the west edge of the transformer platform. Bronze line marker tablet set in concrete transformer platform flush with the surface and stamped "Number 4". Elevation 662.451 feet. Elevation of State line point, low water, is 480 feet

Latitude 44° 19' 32.20" Longitude 72° 00' 04.49"

Chiseled cross on platform of dam

Latitude 44° 19' 33.22" Longitude 72° 00' 05.12"

NOTE.—State line marker No. 4 at Frank D. Comerford Hydro-Electric Plant between 2d and 3d transformers counting from North end of 14 transformers—State line

BARNET (PART OF LITTLETON) QUADRANGLE, VERMONT-NEW HAMPSHIRE—Continued

determined by inspection of blue print H-2847 of New England Power Construction Co. Grafton Power Co. Fifteen Mile Falls—Lower Development General Layout 1929-1930 100 ft.=1 inch.

This blue print shows location of original west shore line of river at low water, better than any other available map.

LITTLETON QUADRANGLE, VERMONT-NEW HAMPSHIRE

Near Diagram No. 38

Fifteen-Mile Lower Development Dam, 2.6 miles north of, along highway, drill hole 3 inches deep in exposed shelf of bedrock about 10 feet west of center of road. A rock cut on west side of road extends about 300 feet painted "T.T.Sta.856"

Latitude 44° 20' 30.27" Longitude 71° 58' 50.75"

Boundary Reference Monument 45. Diagram No. 39

Lower Waterford, Caledonia County, Vt., 1.2 miles south-east of, along State highway 18, on top of a 4-foot cut, 35 ft. east from center of highway 18, 273 ft. north from the north end of the Waterford-Littleton new highway bridge over the Connecticut River, in line with the east curb of highway bridge. A granite post 6½ ft. long and 14 in. square set 5 ft. in ground. The part above ground is dressed to 12 inches square. Bronze tablet set in top and stamped "Number 45—454 ft. S. 6° 34' E." Elev. 682.505 ft. State line point is 454 ft. S. 6° 34' E. from center of marker

Latitude 44° 20' 39.25" Longitude 71° 53' 22.55"

State Line Marker No. 5, Diagram No. 39

Lower Waterford, Caledonia County, Vt., 1.3 miles south-east of, along State highway 18, at new steel and concrete bridge over the Connecticut River, on the upper or east side of bridge, in center of top of concrete curb, 181 ft. south of north end of bridge and 454 ft. S. 6° 34' E. from Bdy. Ref. Mon. 45. Bronze line marker tablet set in curb and stamped "Number 5". Elev. 678.882 ft. Low water elevation 633 ft.

Latitude 44° 20' 34.80" Longitude 71° 53' 21.84"

Near Diagrams Nos. 39 and 40

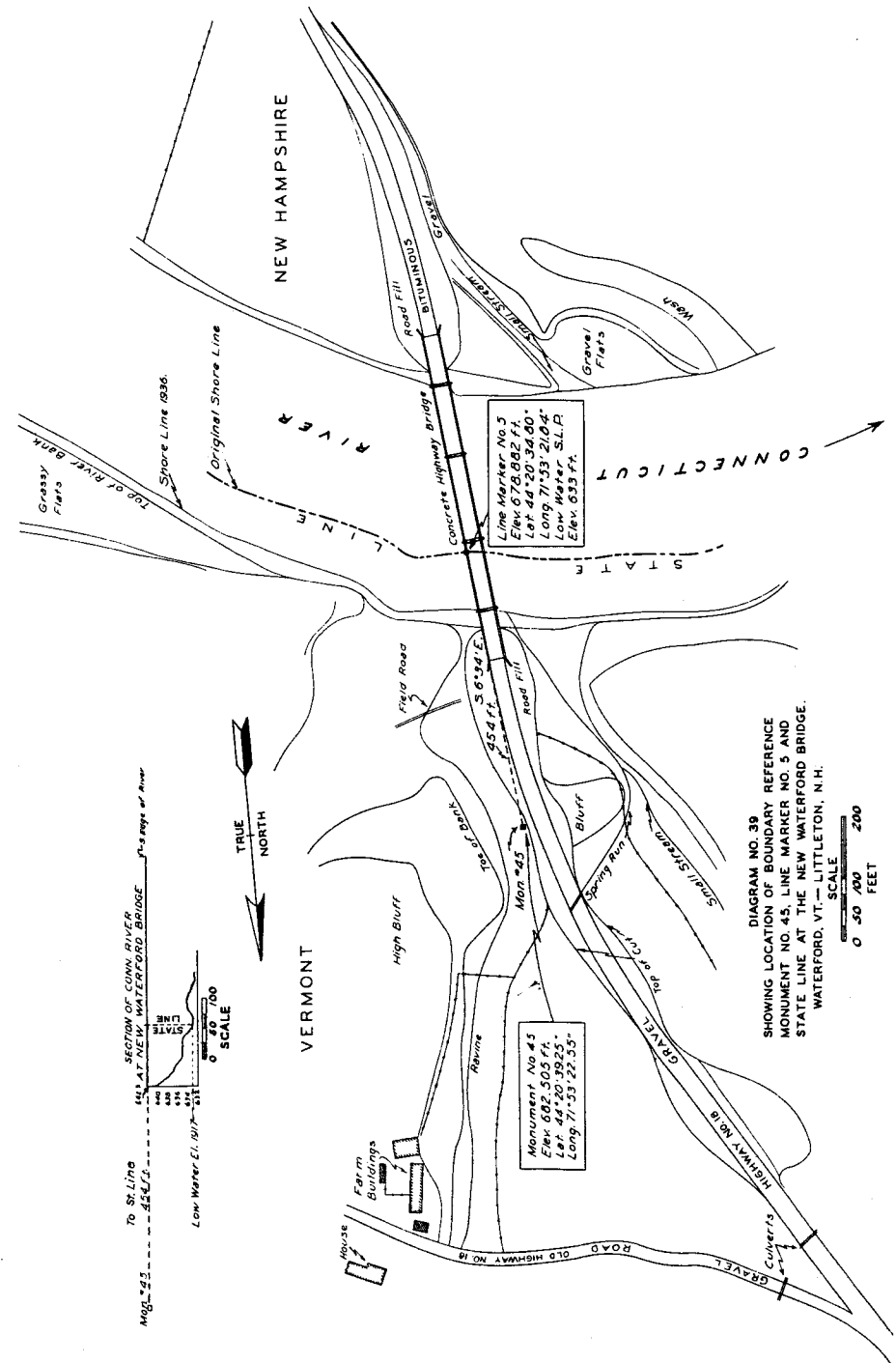
Lower Waterford, in village of, at north west corner of new concrete bridge over Mad Brook, a drill hole 1 inch deep on wall about 4 inches from corner concrete post, painted "T.T.Sta.894"

Latitude 44° 21' 17.40" Longitude 71° 54' 23.33"

Waterford, in village of, chiseled cross on corner of north-west abutment of bridge over Connecticut River, downstream side (this is an old bridge (1891) a new bridge was built (1934-1935) about a mile below)

Latitude 44° 20' 28.25" Longitude 71° 51' 05.46"

NOTE.—Old bridge destroyed by flood, March 1936.



LITTLETON QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

Boundary Reference Monument No. 46, Diagram No. 40

Waterford, Caledonia County, Vt., 0.9 mile southwest of, along old State highway 18, at prospective Upper Development dam site, on property of New England Power Association, 65 ft. south of center of highway at a point about midway along sharp curve from southeast to east, 5 ft. northeast of New England Telephone and Telegraph line, 76 ft. southwest of the southwest corner of a large barn, 10 ft. southeast of corner in stone fence, 108 ft. northeast of a test hole, 440.62 ft. S. 11° 57' 15" E. from Boundary Reference tablet 47. A granite post 6½ ft. long and 14 in. square, set 5 ft. in ground. The part above ground is dressed to 12 in. square. Bronze tablet set in top and stamped "Number 46—867 ft. S. 44° 15' W." Elev. 759.966 ft. State line point is 867 ft. S. 44° 15' W. from center of marker

Latitude 44° 20' 18.95" Longitude 71° 52' 14.26"

Vermont-New Hampshire State line point, low water elev. 638 ft.

Latitude 44° 20' 12.82" Longitude 71° 52' 22.58"

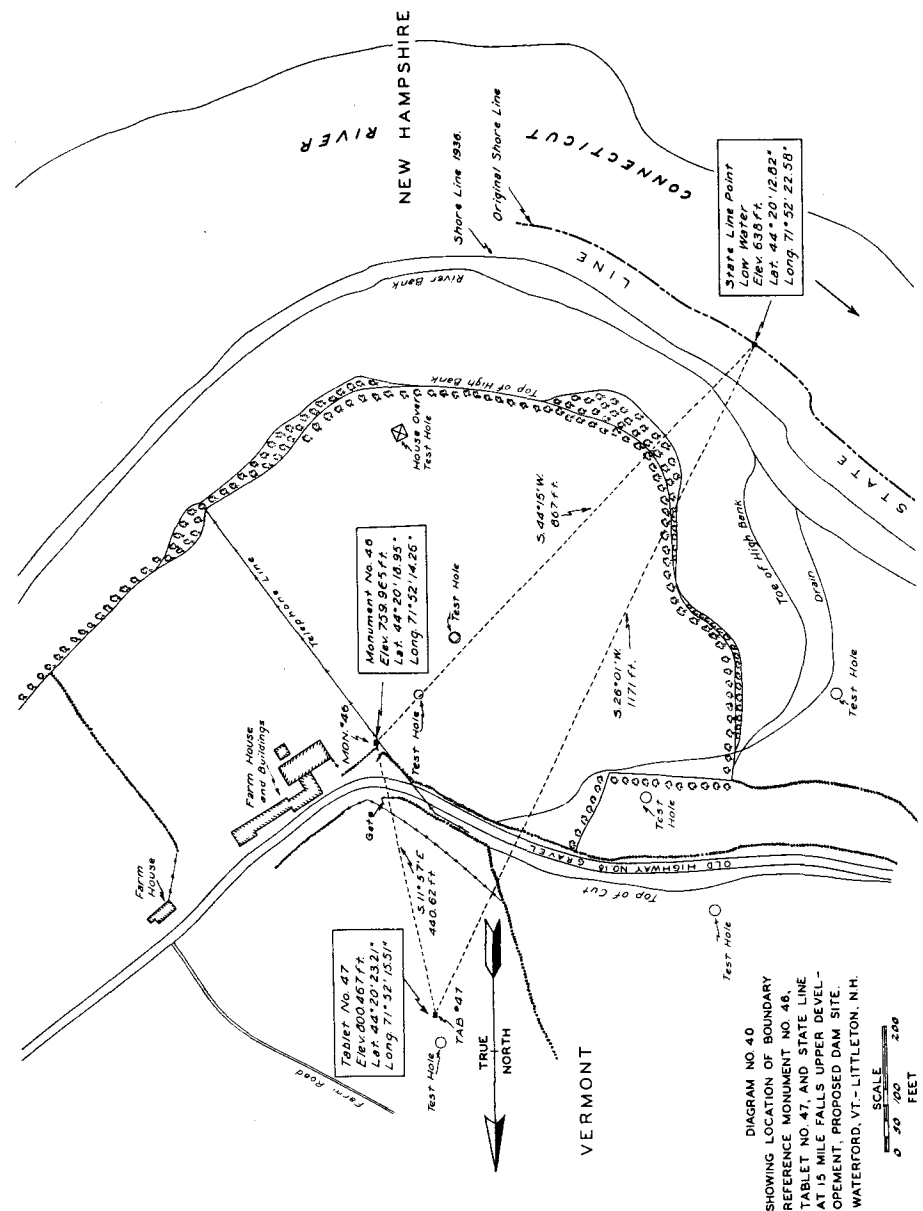
Boundary Reference Tablet No. 47, Diagram No. 40

Waterford, Caledonia County, Vt., 0.9 mile southwest of, along old State highway 18, on property of New England Power Association, 375 ft. nearly north of center of highway at curve from southeast to east, in hayfield near top of hill, 413 ft. northwest of northeast end of dwelling, 42 ft. south of a test hole 15 ft. in diameter, in top of a large boulder outcrop, 440.62 ft. N. 11° 57' 15" W. from Boundary Reference Monument 46. Bronze tablet stamped "Number 47 1171 ft. S. 26° 01' W." Elev. 800.467 ft. State line point is 1,171 ft. S. 26° 01' W. from center of marker

Latitude 44° 20' 23.21" Longitude 71° 52' 15.51"

Vermont-New Hampshire State line point, low water elev. 638 ft.

Latitude 44° 20' 12.82" Longitude 71° 52' 22.58"



LITTLETON QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

Boundary Reference Monument No. 48. Diagram No. 41

Waterford, Caledonia County, Vermont, at the old Upper Waterford highway bridge, 280 feet northwest of the northwest end, at top of a bank, 15 feet northeast of center line of road leading to bridge. A granite post $6\frac{1}{2}$ feet long and 12 inches square, set 4.6 feet in ground. The upper 18 inches is dressed to 12 inches square. Bronze tablet in top stamped "Number 48—284 ft. S. $31^{\circ} 42'$ E." Elev. 709.426 ft. State line point is 284 feet S. $31^{\circ} 42'$ E. from center of marker

Latitude $44^{\circ} 20' 30.69''$ Longitude $71^{\circ} 51' 07.46''$

Vermont-New Hampshire State line, face of old bridge abutment. State line point, low water elev. 650 feet

Latitude $44^{\circ} 20' 28.30''$ Longitude $71^{\circ} 51' 05.41''$

Chiseled cross T. B. M. on Vermont abutment. Elevation 682.190 feet

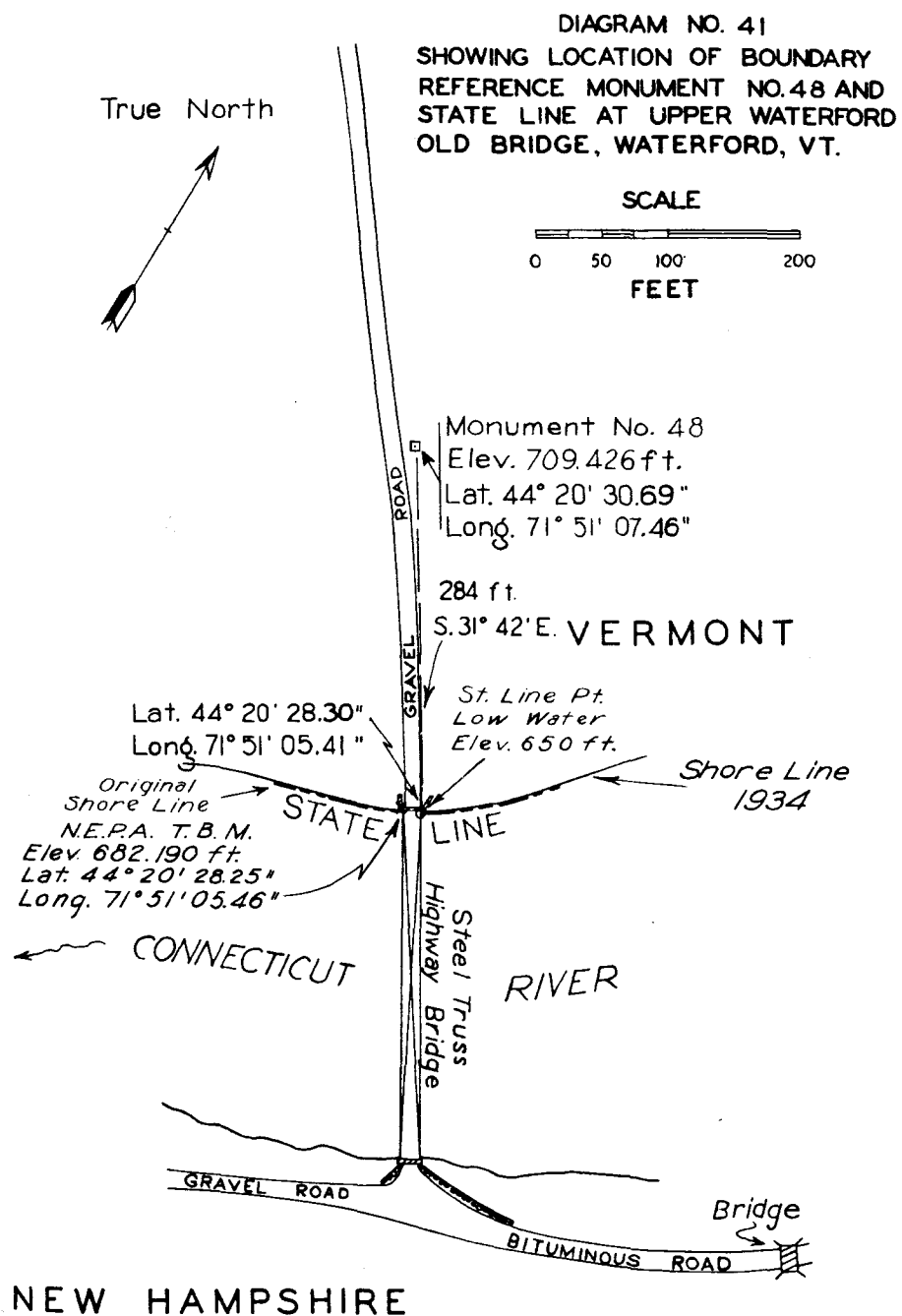
Latitude $44^{\circ} 20' 28.25''$ Longitude $71^{\circ} 51' 05.46''$

Near Diagram No. 41

North Littleton School, Littleton town, Grafton Co., New Hampshire, 0.4 mile north of, 30 feet east by 30 feet north of forks of river road, in boulder 12 feet north of gate; bronze U. S. Geological Survey tablet stamped "C 41 1929." Elevation 929.256 feet

Latitude $44^{\circ} 21' 54.87''$ Longitude $71^{\circ} 48' 03.97''$

Note:- Bridge destroyed by flood
March 1936.



LITTLETON QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

Boundary Reference Monument No. 49. Diagram No. 42

Concord Township, Essex County, Vermont, near the south corner of, about 1½ miles above the Upper Waterford bridge, on the William E. Dodge farm, about 500 feet S. 38° W. (true) from chimney on the main part of the Dodge residence, about 230 feet northwest of the Connecticut River bank on a prominent knoll in a meadow, at the northeast end of a bridge. A granite post 6½ feet long and 12 inches square, set 5 feet in the ground. The part above ground is dressed and tapers to 10 inches square at the top. Bronze tablet in top stamped "Number 49-270 feet S. 39° 16' E." Elevation 716.384 feet. State line point is 270 feet S. 39° 16' E. from center of marker

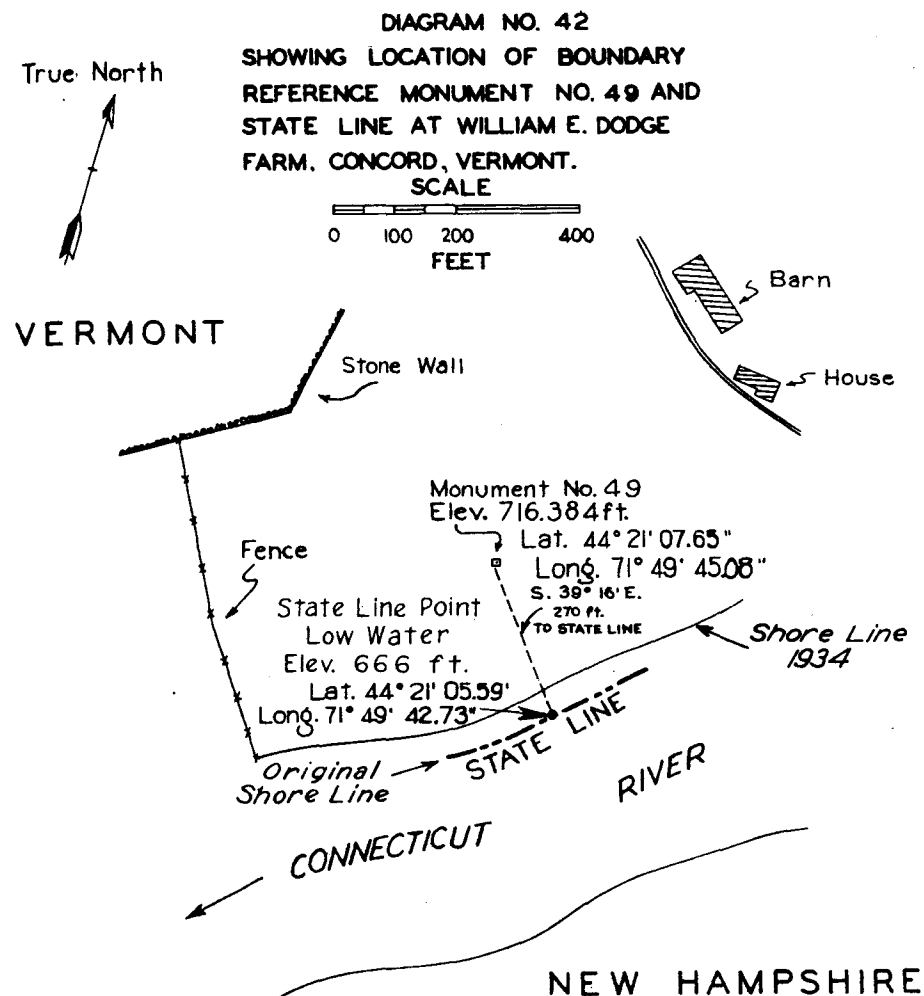
Latitude 44° 21' 07.65" Longitude 71° 49' 45.08"

Vermont-New Hampshire State line point, low water elevation 666 feet

Latitude 44° 21' 05.59" Longitude 71° 49' 42.73"

Caledonia-Essex County line, Vermont, about 40 feet from low water on Vermont side of Connecticut River. A blazed tree near terminus of county line

Latitude 44° 20' 54.90" Longitude 71° 50' 18.97"



WHITEFIELD QUADRANGLE, VERMONT-NEW HAMPSHIRE

Boundary Reference Monument No. 50. Diagram No. 43

Gilman, Vermont, 163 feet north of north end of Whitcomb highway bridge (built in 1928), on a bank north of road paralleling the Connecticut River, near a row of small houses, and in line with west side of bridge. A granite post 6½ feet long and 12 inches square, set 5 feet in ground. Upper 2 feet is dressed to 12 inches square. Bronze tablet in top stamped "Number 50-248 ft. S. 7° 33' W." Elev. 864.906 feet. State line point is 248 feet S. 7° 33' W., from center of marker

Latitude 44° 24' 44.24" Longitude 71° 43' 22.66"

Vermont-New Hampshire State line point, low water elevation 807 feet

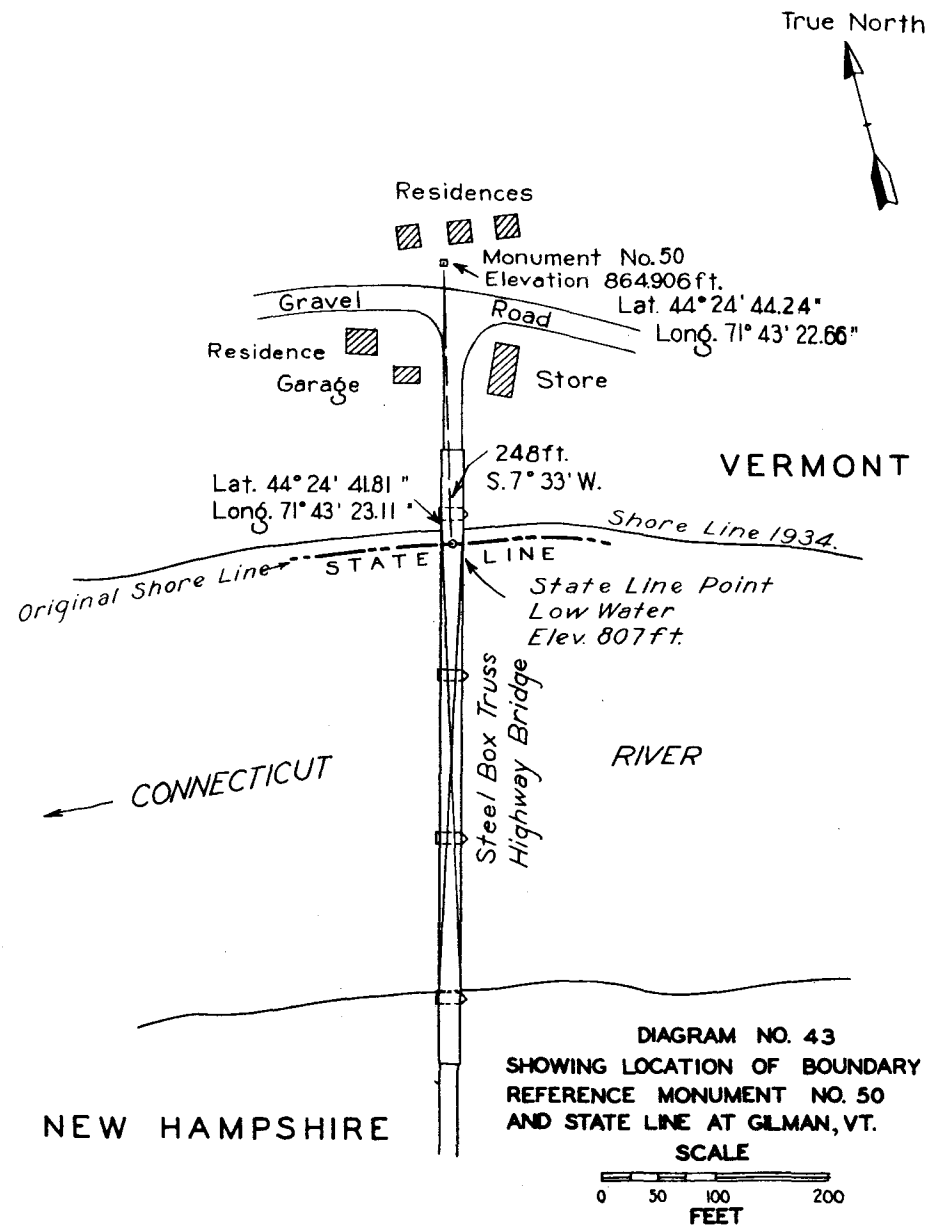
Latitude 44° 24' 41.81" Longitude 71° 43' 23.11"

LITTLETON QUADRANGLE, VERMONT-NEW HAMPSHIRE

U. S. Geological Survey Bench Mark "C 40 1929". Near Diagram No. 43

Gilman, Vt., 1.9 miles south of, 3.7 miles north of North Littleton Schoolhouse (now abandoned), at Coos-Grafton County line, N. H. in pasture, 80 feet southeast of road, in boulder, 8 feet north of stone fence said to be Dalton-Littleton Town line; U. S. Geological Survey bronze tablet stamped "C 40 1929". Elevation 1,220.857 feet

Latitude 44° 23' 44.85" Longitude 71° 45' 23.39"



WHITEFIELD QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

Boundary Reference Monument No. 51. Diagram No. 44

Gilman, Vermont, at Gilman Paper Company plant, on a high bank, about 65 feet southwest of center of elevated water tank, and about 95 feet north of northeast corner of main building. A granite post 6½ feet long and 12 inches square, set 5 feet in ground. Upper 2 feet is dressed square. Bronze tablet in top stamped "Number 51—253 ft. S. 16° 06' W." Elev. 865.535 feet. State line point is 253 feet S. 16° 06' W. from the center of marker

Latitude 44° 24' 40.07" Longitude 71° 43' 02.28"

New Hampshire-Vermont State line point; bronze tablet line marker No. 6 in head wall of gates low water elevation 807 feet (under tablet)

Latitude 44° 24' 37.67" Longitude 71° 43' 03.24"

Drill hole at New Hampshire end of dam

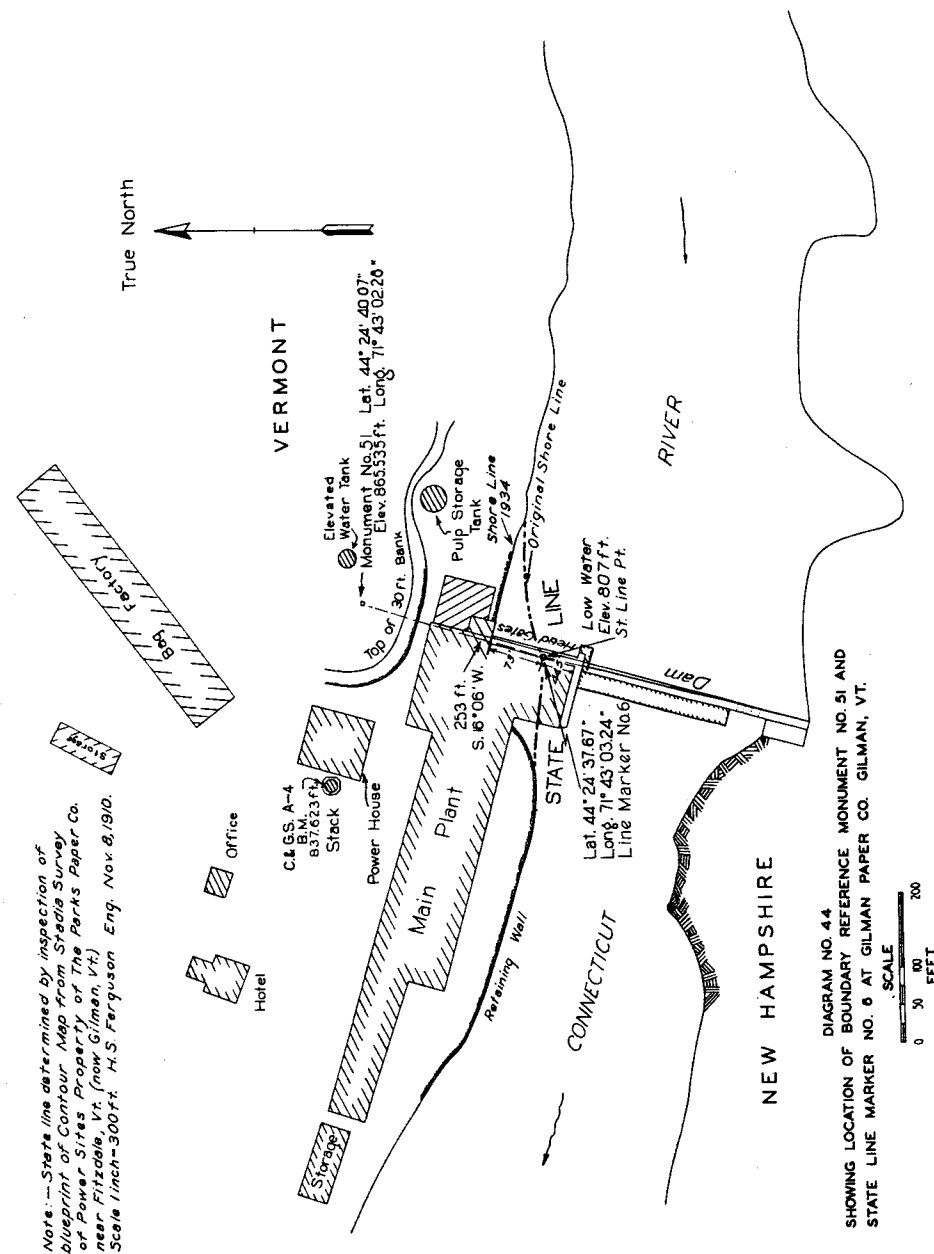
Latitude 44° 24' 34.17" Longitude 71° 43' 04.46"

Line Marker No. 6. Diagram No. 44

Gilman, Essex County, Vermont, on the Gilman Paper Company dam, on top of headgate wall, 2 feet east of east wall of main building, 44.5 feet north from south end and 73 feet south from north end of headgate wall and offset in main building, 365 feet from south or New Hampshire end of dam. Monument 51 bears N. 16° 06' E. true bearing and is distant 253 feet from Line Marker No. 6. Low water elevation 807 feet

Latitude 44° 24' 37.67" Longitude 71° 43' 03.24"

NOTE.—Elevation of Line Marker No. 6 not determined.



7-8344-C

DIAGRAM NO. 44
SHOWING LOCATION OF BOUNDARY REFERENCE MONUMENT NO. 51 AND
STATE LINE MARKER NO. 6 AT GILMAN PAPER CO. GILMAN, VT.

WHITEFIELD QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

U. S. Geological Survey Bench Mark "C 14 1932". Diagram
No. 45

South Lunenburg station, about 1,200 feet east of, on south side of west abutment of new steel truss bridge of Maine Central Railroad over Connecticut River, top of concrete bridge seat, 4 feet lower than track; U. S. Geological Survey standard tablet stamped "C 14 1932". Elevation 847.271 feet

Latitude 44° 25' 38.79" Longitude 71° 40' 39.52"

Boundary Reference Monument No. 52. Diagram No. 45

South Lunenburg, 252 feet N. 83° E. of the northeast corner of the Maine Central Railroad station, 918 feet northwest of northwest end of railroad bridge over Connecticut River, in a grass plot between a public road and the lead track to an unused roundhouse, 47 feet east of center line of road, 20 feet north of center line of lead track, and in line with railroad bridge. A granite post 6½ feet long and 12 inches square, set 4½ feet in ground. The upper 2 feet is dressed to 12 inches square. Bronze tablet in top, stamped "Number 52 928 feet S. 60° 48' E." Elevation 853.358 feet. State line point is 928 feet S. 60° 48' E. from center of marker

Latitude 44° 25' 43.31" Longitude 71° 40' 50.50"

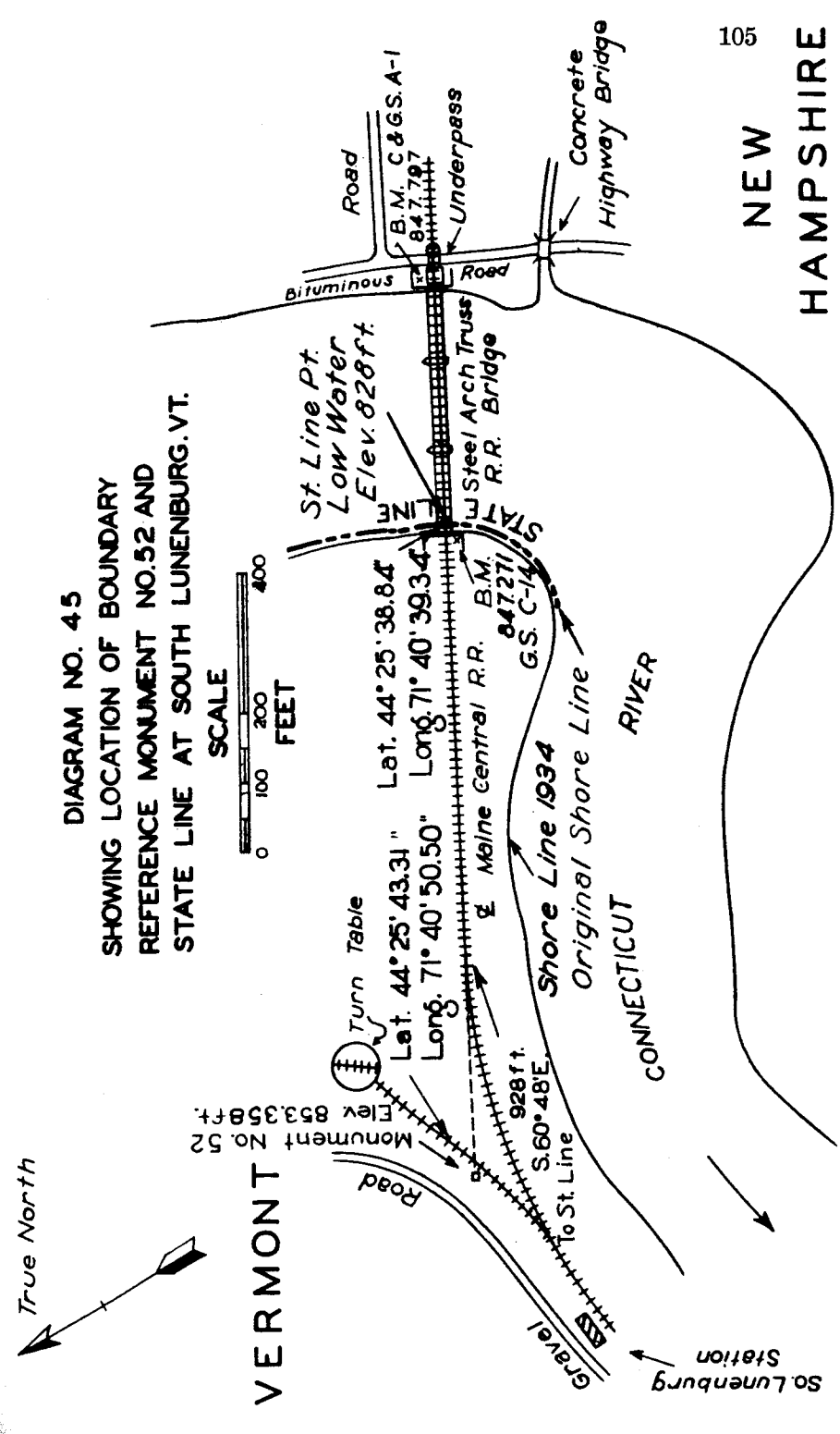
New Hampshire-Vermont State line point, low water elevation 828 feet

Latitude 44° 25' 38.84" Longitude 71° 40' 39.34"

U. S. Coast and Geodetic Bench Mark "A 1 1922".
Diagram No. 45

South Lunenburg station, 1,570 feet east of, in New Hampshire, on north end of east abutment of Maine Central Railroad bridge over the Connecticut River, on bridge seat, 4 feet below level of track; U. S. Coast and Geodetic Survey standard tablet stamped "A 1 1922". Elevation 847.797 feet

Latitude 44° 25' 37.14" Longitude 71° 40' 34.84"



WHITEFIELD QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

Boundary Reference Monument No. 53. Diagram No. 46

South Lancaster Bridge, 2,120 feet northwest of unused Boston and Maine Railroad track at Montourne Station, New Hampshire, 114 feet northwest of northwest end of bridge, 17 feet southeast of center line of road paralleling Connecticut River, in grass triangle formed by forks of road leading to bridge, and in line with bridge. A granite post $6\frac{1}{2}$ feet long and 12 inches square, set 4 feet in ground. Part above ground is dressed to 12 inches square. Bronze tablet in top, stamped "Number 53-140 ft. S. $58^{\circ} 36'$ E." Elevation 854.132 feet. State line point is 140 feet S. $58^{\circ} 36'$ E. from center of marker

Latitude $44^{\circ} 27' 38.23''$ Longitude $71^{\circ} 39' 14.67''$

New Hampshire-Vermont State line point, low water elevation 829 feet

Latitude $44^{\circ} 27' 37.51''$ Longitude $71^{\circ} 39' 13.02''$

Tie Point: U. S. Geological Survey Triangulation Station Prospect Near Diagrams Nos. 46 and 47

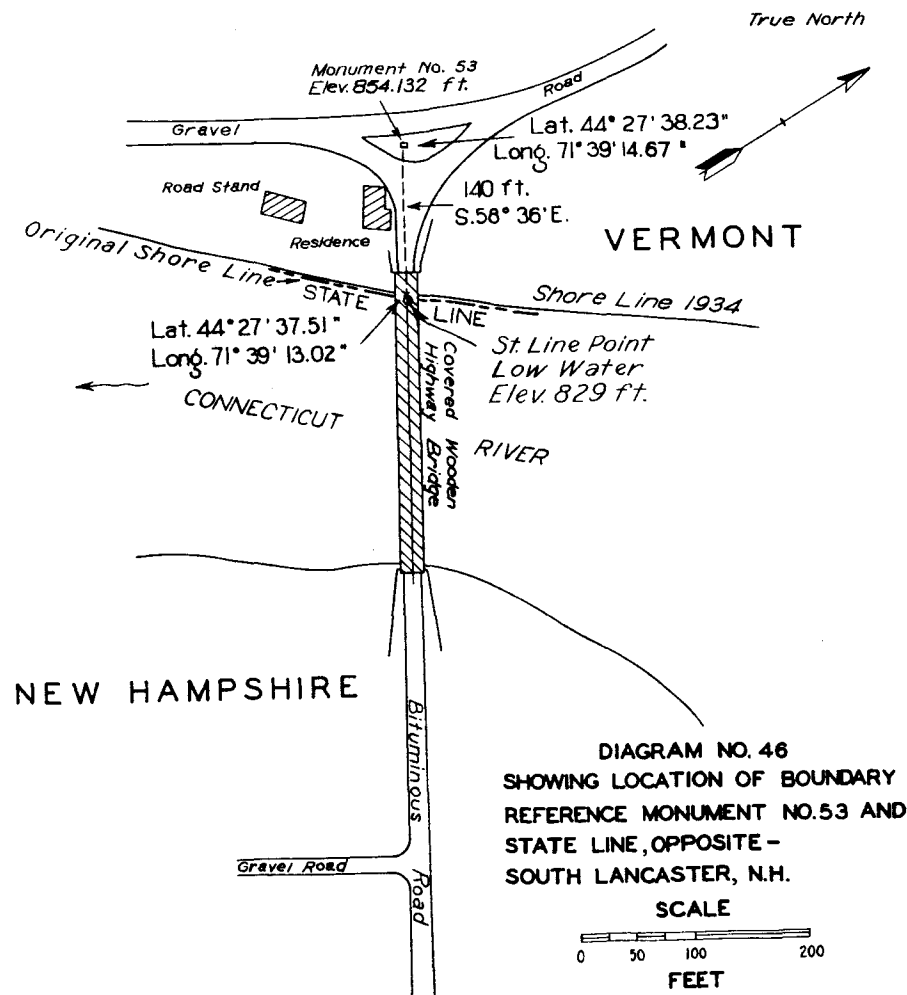
In Town of Lancaster, N. H., on top of Prospect Hill, Lancaster-Whitefield road passes close to hill on top of which is a large summer house. Station is stone or brick tower with an open observation platform on top. Station is not identical with old station of same name which was on old hotel building now destroyed. Station mark: Center of tower

Latitude $44^{\circ} 27' 04.07''$ Longitude $71^{\circ} 34' 18.16''$

U. S. Geological Survey Bench Mark "864 W" Near Diagram No. 47

Lancaster, entrance to Coos County Courthouse, southeast corner second granite step; U. S. Geological Survey bronze tablet stamped "864 W". Elevation 867.047 feet

Latitude $44^{\circ} 29' 32.81''$ Longitude $71^{\circ} 34' 17.72''$



WHITEFIELD QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

Boundary Reference Monument No. 54. Diagram No. 47

Lancaster, New Hampshire, about 1.25 miles northwest of courthouse at, 390 feet west of west end of highway bridge over Connecticut River, about 55 feet northeast of northeast corner of residence of E. C. Chase, about 18 feet west of center line of road paralleling river. A granite post 6½ feet long and 12 inches square, set 4 feet in ground. Part of post above ground is dressed 12 inches square. Bronze tablet in top stamped "Number 54-430 ft. N. 86° 11' E." Elevation 853.981 feet. State line point is 430 feet N. 86° 11' E. from center of marker

Latitude 44° 29' 45.63" Longitude 71° 35' 48.83"

New Hampshire-Vermont State line point, low water elevation 830 feet

Latitude 44° 29' 45.91" Longitude 71° 35' 42.90"

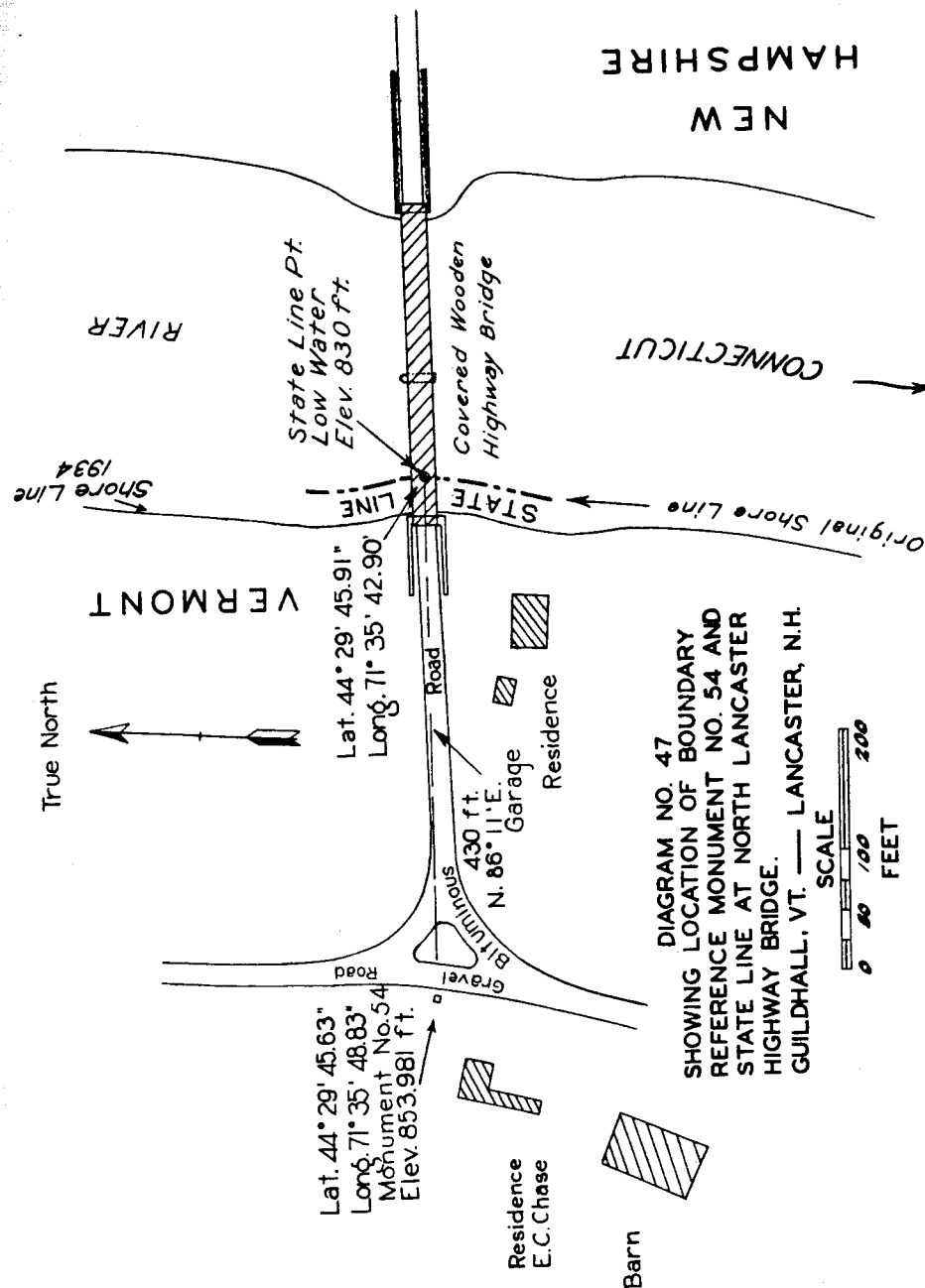


DIAGRAM NO. 47
SHOWING LOCATION OF BOUNDARY
REFERENCE MONUMENT NO. 54 AND
STATE LINE AT NORTH LANCASTER
HIGHWAY BRIDGE.
GUILDHALL, VT. — LANCASTER, N.H.

GUILDHALL QUADRANGLE, VERMONT-NEW HAMPSHIRE

Boundary Reference Monument No. 55. Diagram No. 48

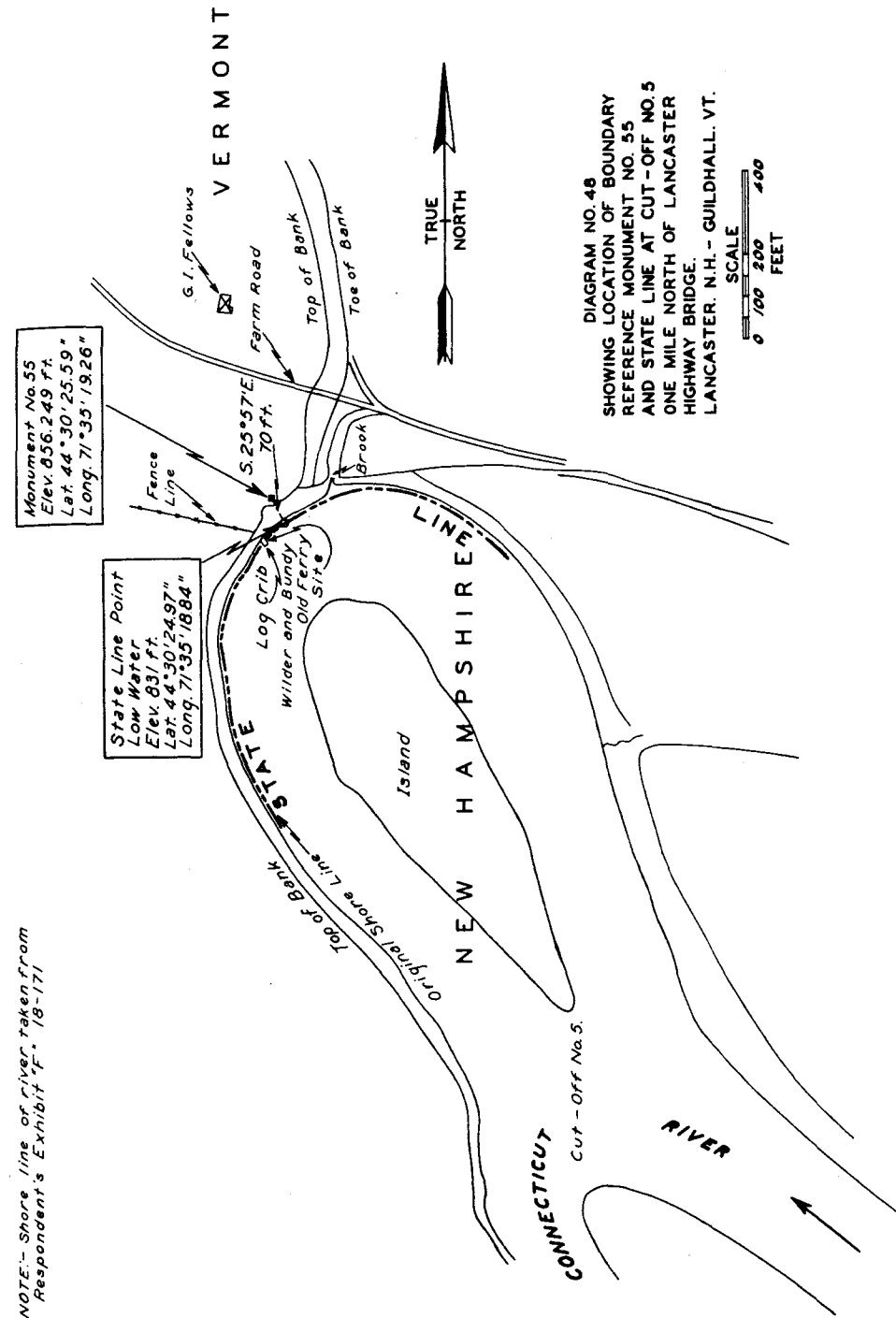
At Cutoff 5, old Wilder and Bundy Ferry site, Lancaster, Coos County, N. H., highway bridge over Connecticut River, 0.9 mile north of, along Vermont State highway 102, thence by farm road east 0.25 mile to abandoned farm house thence 460 ft. nearly south to monument, on property of Mr. G. I. Fellows, 95 ft. northeast from top of bank at wire fence on property line between Mr. G. I. Fellows and Charles Fitch, 462 ft. nearly south of old farmhouse, 83 ft. nearly north of mouth of small brook, 50 ft. north of an old crib on north side of old river and 13 ft. north of top of slope. A granite post 6½ ft. long and 14 in. square set 5 ft. in ground. The part above ground is dressed to 12 inches square. Bronze tablet set in top and stamped "Number 55—70 ft. S. 25° 57' E." Elev. 856.249 ft. State line point is 70 ft. S. 25° 57' E. from center of marker

Latitude 44° 30' 25.59" longitude 71° 35' 19.26"

Vermont-New Hampshire State line point, low water elev. 831 ft.

Latitude 44° 30' 24.97" longitude 71° 35' 18.84"

NOTE:—Shore line of river taken from Respondent's Exhibit 'F'. 18-171



GUILDHALL QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

U. S. Geological Survey and N. E. P. A. Bench Mark 1931.
Diagram No. 49

In Essex County, Vermont, about 1.5 miles north along Maine Central Railroad from station at Coos Junction, Coos County, New Hampshire, near Vermont-New Hampshire State line, at northeast end of Vermont side of a large two-span bridge over the Connecticut River, in top of south end of the northeast wing wall, about 4 yards east of center line of track and about 1 foot lower than the track, A U. S. Geological Survey standard disk stamped "859.53 N. E. P. A. 1931". Elevation 859.641 feet

Latitude $44^{\circ} 31' 33.54''$ Longitude $71^{\circ} 34' 48.98''$

Boundary Reference Monument No. 56. Diagram No. 49

Lancaster, New Hampshire, 2.5 miles northwest of, 678 feet northwest of northwest end of Maine Central Railroad bridge over the Connecticut River, in town of Guildhall, Essex County, Vermont, 82 feet southwest of center of railway track, at edge of field, on land owned by George I. Fellows. A granite post $6\frac{1}{2}$ feet long and 12 inches square set 5 feet in ground, part above ground dressed to 12 inches square. Bronze tablet set in top and stamped "Number 56—700 ft. S. $47^{\circ} 06' E.$ " State line point is 700 feet S. $47^{\circ} 06' E.$ from center of marker. Elevation 850.335 feet.

Latitude $44^{\circ} 31' 38.06''$ Longitude $71^{\circ} 34' 55.87''$

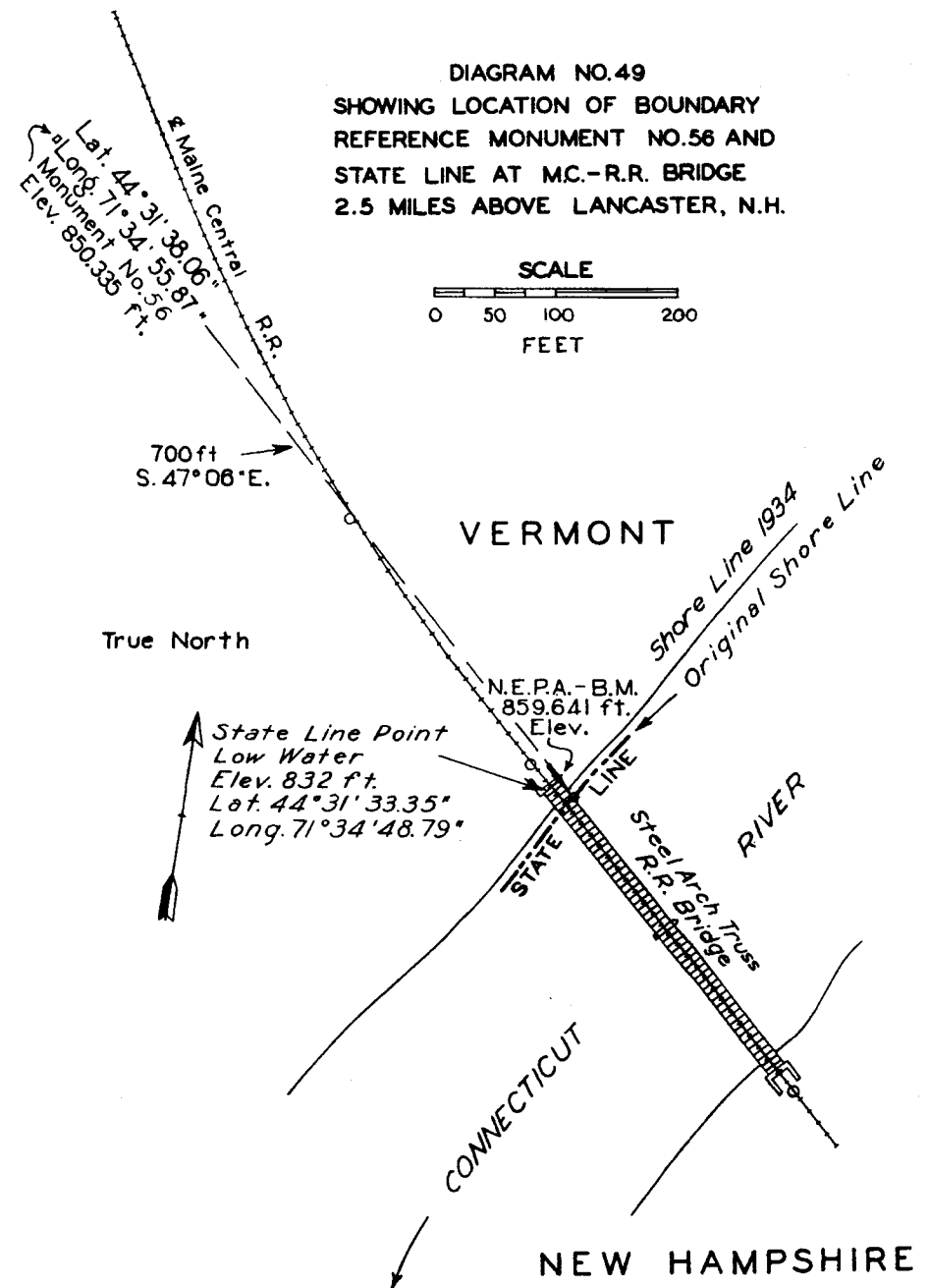
Vermont-New Hampshire State line point, low water elevation 832 feet

Latitude $44^{\circ} 31' 33.35''$ Longitude $71^{\circ} 34' 48.79''$

U. S. Geological Survey Bench Mark "C 20 1928". Near
Diagram No. 49

Lancaster, New Hampshire, 3.1 miles north of, 120 feet south and 65 feet east of crossing of Boston and Maine Railroad and State Highway, in rock ledge; standard tablet stamped "C 20 1928". Elevation 858.073 feet

Latitude $44^{\circ} 31' 59.11''$ Longitude $71^{\circ} 34' 20.81''$



GUILDHALL QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

Boundary Reference Monument No. 57. Diagram No. 50

Guildhall, Essex County, Vt., 84 ft. south of center of State highway 102, at a point 330 ft. west of Guildhall General Store and Post Office, on or near the north and south line between lots owned by Mrs. Mary H. Larry on the west and Mr. H. S. Hall on the east, 83.4 ft. southeast from the northeast corner and 80.2 ft. northeast from the southeast corner of Mrs. Larry's residence, 33.2 ft. southwest from the northwest corner and 22 ft. northwest from the southwest corner of main part of Mr. Hall's residence, 40 ft. north of top of slope to Connecticut River. A granite post 6½ ft. long and 14 in. square set 4½ ft. in ground. The part above ground is dressed to 12 in. square. Bronze tablet set in top and stamped "Number 57—404 ft. S. 5° 49' W." Elev. 869.025 ft. State line point is 404 ft. S. 5° 49' W. from center of marker

Latitude 44° 33' 52.30" Longitude 71° 33' 43.25"

Vermont-New Hampshire State line point, low water elev. 833 ft.

Latitude 44° 33' 48.33" Longitude 71° 33' 43.82"

Boundary Reference Monument No. 58. Diagram No. 50

Guildhall, Essex County, Vermont, 82 feet east from E. E. Sturns General Store, on land owned by Wyoming Valley Paper Company, about 120 feet north of power house on Vermont side, in open lot, granite post 6.5 feet long and 12 inches square, set 5 feet in ground. Bronze tablet set in top and stamped "Number 58—178 ft. S. 8° 08' E." Elevation 862.563 feet. State line point is 178 feet S. 8° 08' E. from center of marker

Latitude 44° 33' 52.18" Longitude 71° 33' 37.40"

Vermont-New Hampshire State line point, low water elevation (below dam) 834 feet

Latitude 44° 33' 50.44" Longitude 71° 33' 37.05"

GUILDHALL QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

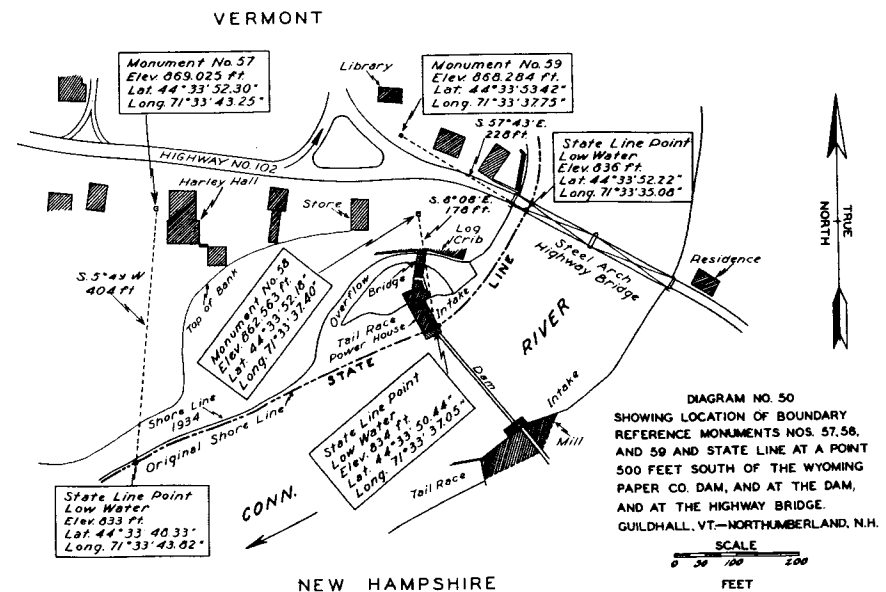
Boundary Reference Monument No. 59. Diagram No. 50

Guildhall, Essex County, Vermont, 203 feet west from west end of steel highway bridge across Connecticut River, 20 feet north of center line of public road, 51 feet south of southeast corner of Library and Masonic Hall Building, 55 feet west of corner of porch on residence of E. E. Sturns; just on north side of old broken sidewalk; granite post 6.5 feet long and 12 inches square, set 5 feet in ground, part above ground dressed to 12 inches square. Bronze tablet set in top and stamped "Number 59—228 ft. S. 57° 43' E." Elevation 868.284 feet. State line point is 228 feet S. 57° 43' E. from center of marker

Latitude 44° 33' 53.42" Longitude 71° 33' 37.75"

Vermont-New Hampshire State line point, low water elevation (above dam) is 836 feet

Latitude 44° 33' 52.22" Longitude 71° 33' 35.08"



GUILDHALL QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

Boundary Reference Monument No. 60. Diagram No. 51

Guildhall, Essex County, Vt., 1.6 miles northeast of, along State highway 102, at Cutoff 4, 555 feet southwest from residence of Mr. F. A. Curtis, 600 ft. east from residence of Mr. A. M. Booth, 100 feet southwest from a small cemetery, 30 feet south from center of highway, 36 ft. northeast from top of steep bank, 12 ft. north of cedar to old house. A granite post 6½ ft. long and 14 inches square, set 5 ft. in ground. Part above ground is dressed to 12 inches square. Bronze tablet set in top and stamped "Number 60—226 ft. S. 32° 56' W." Elev. 892.729 ft. State line point is 226 ft. S. 32° 56' W. from center of marker

Latitude 44° 35' 06.53" Longitude 71° 33' 04.76"

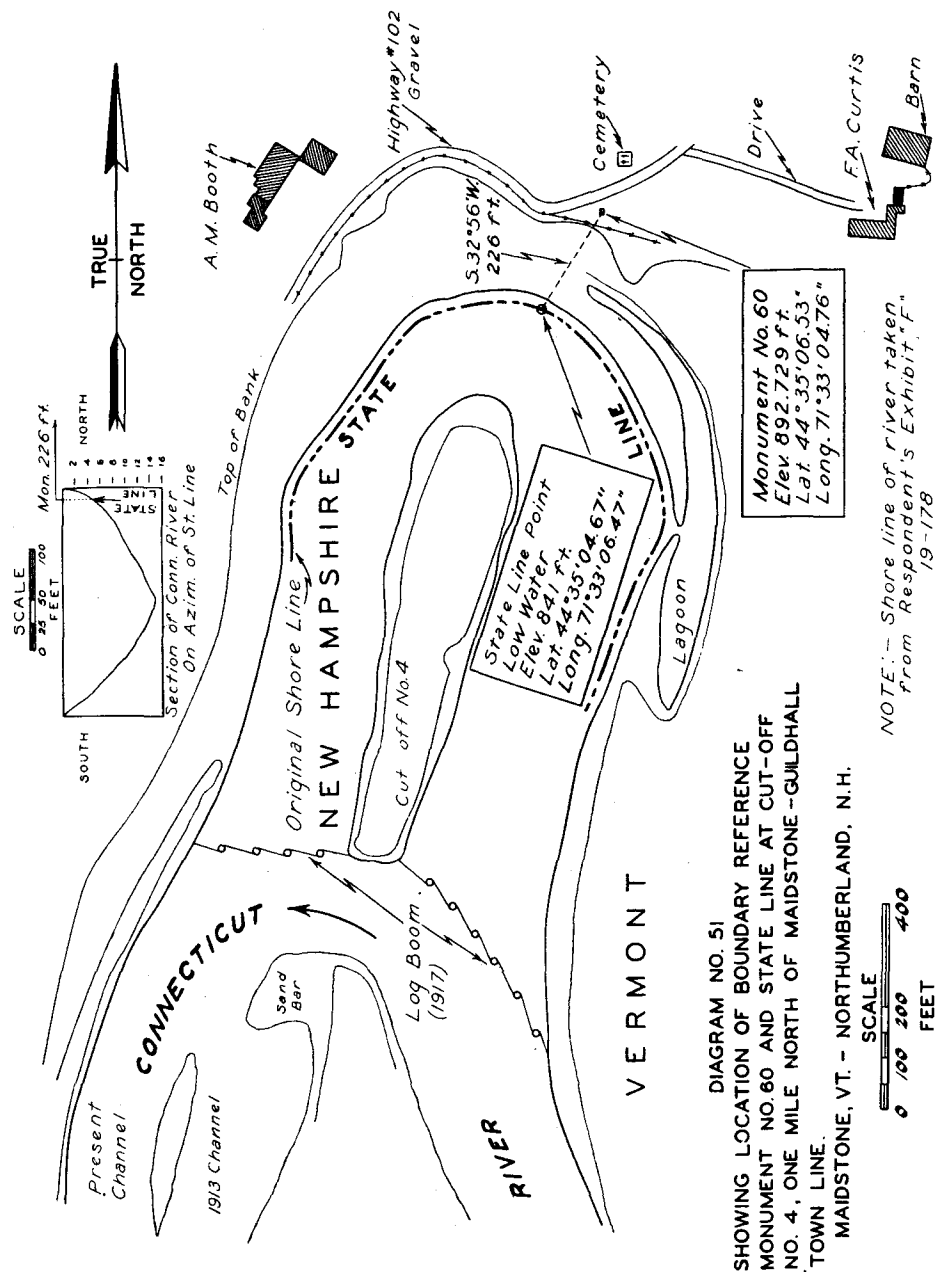
Vermont-New Hampshire State line point, low water elev. 841 ft.

Latitude 44° 35' 04.67" Longitude 71° 33' 06.47"

U. S. Geological Survey Bench Mark "C 28 1928". Near
Diagram No. 51

Groveton, New Hampshire, 2.7 miles southwest of, 80 feet east of track, 55 feet west of highway, in small meadow, about opposite center of small pond lying on west side of track, in large boulder; standard tablet stamped "C 28 1928". Elevation 871.291 feet

Latitude 44° 34' 27.65" Longitude 71° 32' 40.53"



Boundary Reference Monument No. 61. Diagram No. 52

Groveton station, Coos County, N. H., 1.8 miles southwest along Boston and Maine Railroad, thence 2,600 feet northwest, to a point 1.5 miles (airline) southeast of Stevens station, Essex County, Vt., about 0.5 mile east of Vermont State Highway No. 102, in open field on point of land locally known as Tillotson's Third Bend and opposite mouth of Upper Ammonoosuc River, 900 feet southwest of Vermont shore line of Connecticut River, near wire fence marking line between Tillotson Farm and Alonzo Booth Farm, a granite post 6.5 feet long and 12 inches square and set 5 feet in ground. Bronze tablet set in top and stamped "Number 61—900 feet N. 68° 05' E." Elevation 859.927 feet. State line point is 900 feet, N. 68° 05' E. from center of marker

Latitude 44° 35' 14.75" Longitude 71° 32' 19.63"

Vermont-New Hampshire State line point, low water elevation 843 feet

Latitude 44° 35' 18.07" Longitude 71° 32' 08.09"

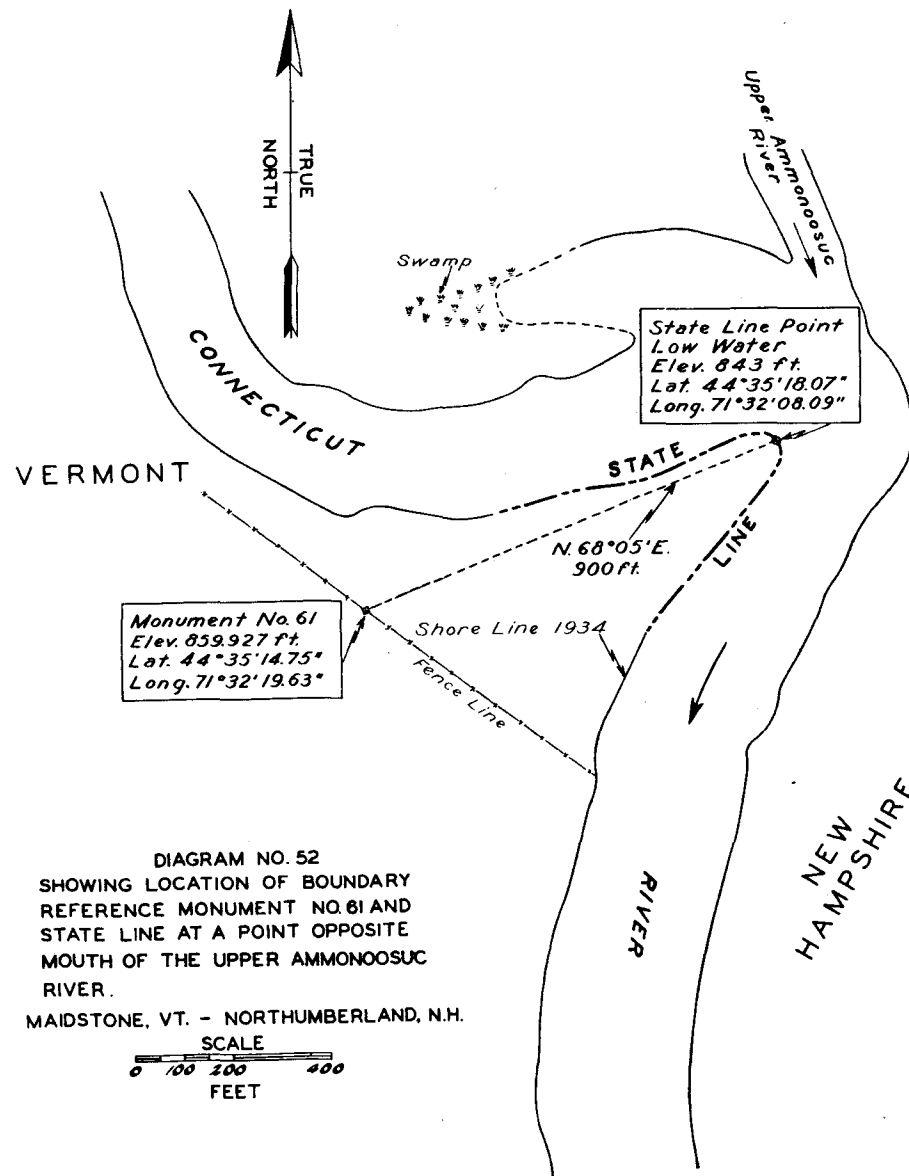


DIAGRAM NO. 52
SHOWING LOCATION OF BOUNDARY
REFERENCE MONUMENT NO. 61 AND
STATE LINE AT A POINT OPPOSITE
MOUTH OF THE UPPER AMMONOOSUC
RIVER.

MAIDSTONE, VT. - NORTHUMBERLAND, N.H.

SCALE
0 100 200 400
FEET

GUILDHALL QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

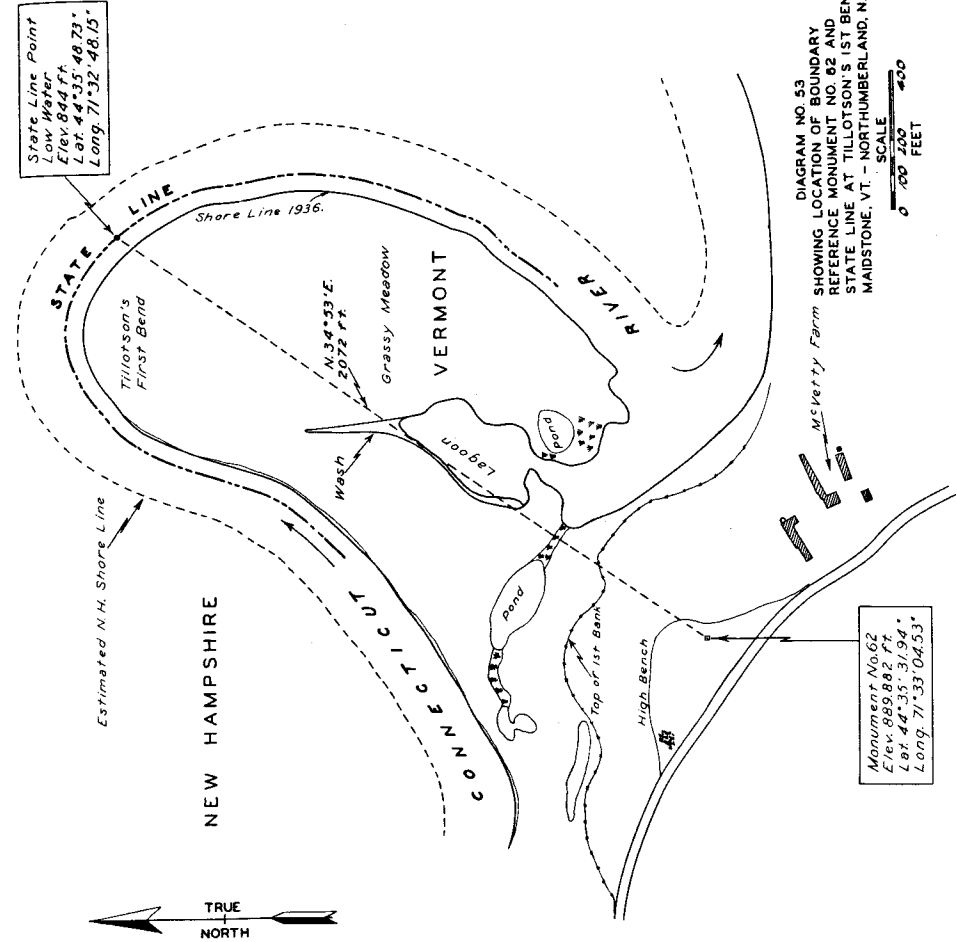
Boundary Reference Monument No. 62. Diagram No. 53

Guildhall, Essex County, Vt., 1.8 miles northeast of; along State highway 102, at a place along the Connecticut River known as Tillotson's First Bend, about 0.75 mile nearly west from the mouth of the Ammonoosuc River, in pasture field, on second bench southwest of river, on property of George McVetty, 360 ft. northwest of his barn, 125 ft. northeast of center of highway, Monument 62 is 3,686.94 ft. N. 61° 48' 34" W. from Monument 61. A granite post 6½ ft. long and 14 inches square set 5 ft. in ground. Part above ground is dressed to 12 inches square. Bronze tablet set in top and stamped "Number 62-2072 ft. N. 34° 53' E." Elev. 889.882 ft. State line point is 2,072 ft. N. 34° 53' E. from center of marker

Latitude 44° 35' 31.94" Longitude 71° 33' 04.53"

Vermont-New Hampshire State line point, low water elevation 844 ft.

Latitude 44° 35' 48.73" Longitude 71° 32' 48.15"



GUILDHALL QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

Boundary Reference Monument No. 63. Diagram 54

Maidstone station, Essex County, Vt., on Maine Central Railroad, about 2,800 feet (airline) east of, 336 feet west of west end of highway bridge across the Connecticut River, on south side of main highway, open meadow on each side, close to wire fence line, granite post 6.5 feet long and 12 inches square set 5 feet in ground. Part above ground is dressed to 12 inches square. Bronze tablet set in top and stamped "Number 63-345 feet, N. 78° 41' E." Elevation 863.674 feet. State line point is 345 feet, N. 78° 41' E. from center of marker

Latitude 44° 39' 06.46" Longitude 71° 33' 53.04"

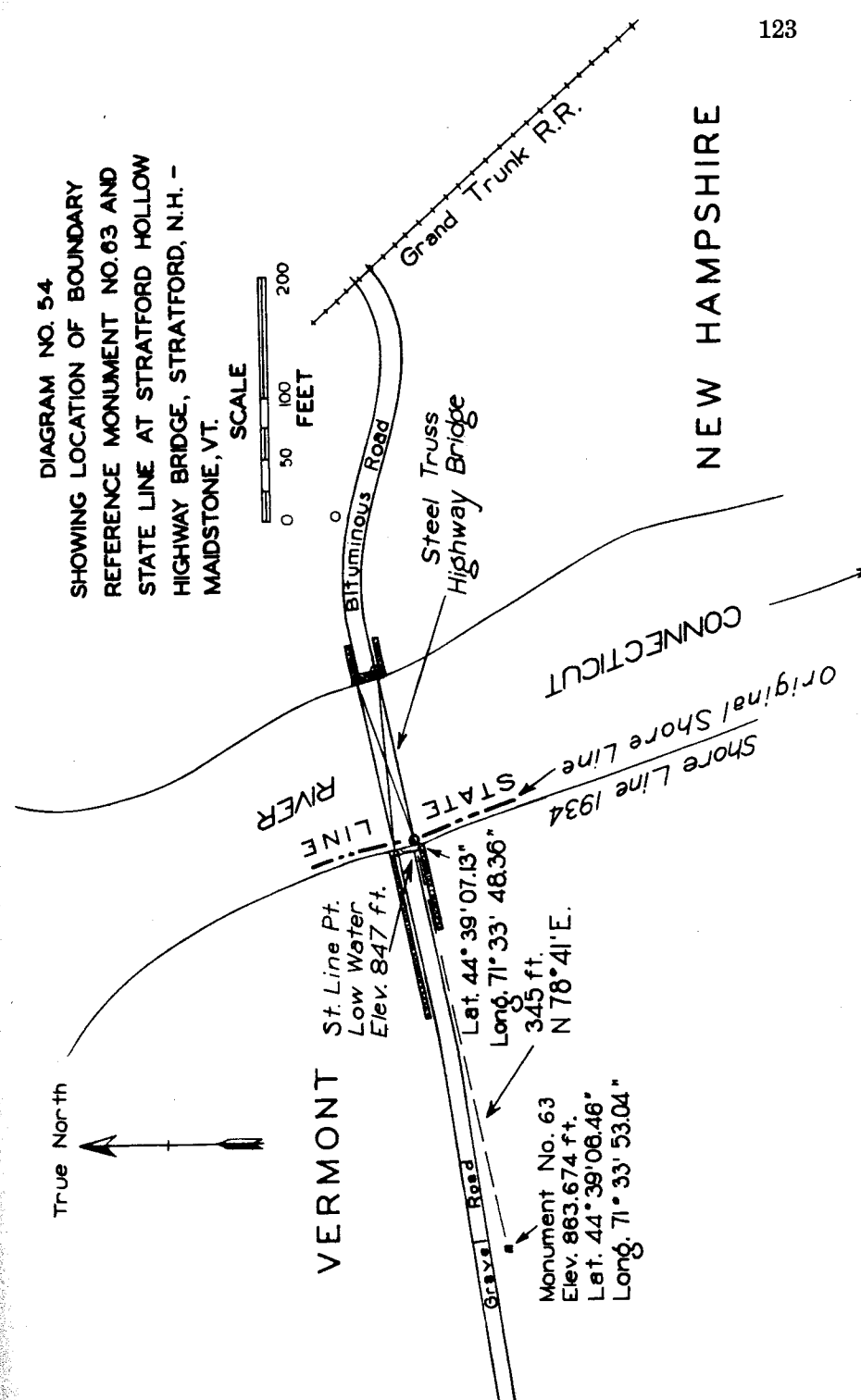
Vermont-New Hampshire State line point, low water elevation 847 feet.

Latitude 44° 39' 07.13" Longitude 71° 33' 48.36"

**U. S. Coast & Geodetic Survey Bench Mark V 8. Near
Diagram No. 54**

About 1,500 feet northwest along the Maine Central Railroad from station at Maidstone, Essex County, Vt., at a point where Connecticut River parallels track, about 560 feet south of a water pumping station, about 7 yards west of center line of track, in top of a large embedded boulder, and about 5 feet higher than track. A standard U. S. Coast and Geodetic Survey disk stamped "V 8 1933". Elevation 876.245 feet

Latitude 44° 39' 02.37" Longitude 71° 34' 43.21"



GUILDHALL QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

Diagram No. 55

Stone center line monument in center of track. It is 6 inches square with small center hole in top and stands about flush with top of ties

Latitude $44^{\circ} 40' 33.70''$ Longitude $71^{\circ} 35' 37.71''$

U. S. Geological Survey and N. E. P. A. Bench Mark 1931.

About 2.3 miles north along Maine Central Railroad from station at Maidstone, Essex County, Vermont, near New Hampshire-Vermont State line, on Vermont end of a large two-span steel bridge over the Connecticut River, about 6 yards east of center line of track, in top of southwest wing wall and about 1 foot lower than rail. A U. S. Geological Survey disk stamped "879.23 N. E. P. A. 1931". Elevation 879.444 feet

Latitude $44^{\circ} 40' 34.67''$ Longitude $71^{\circ} 35' 37.45''$

Boundary Reference Monument No. 64. Diagram No. 55

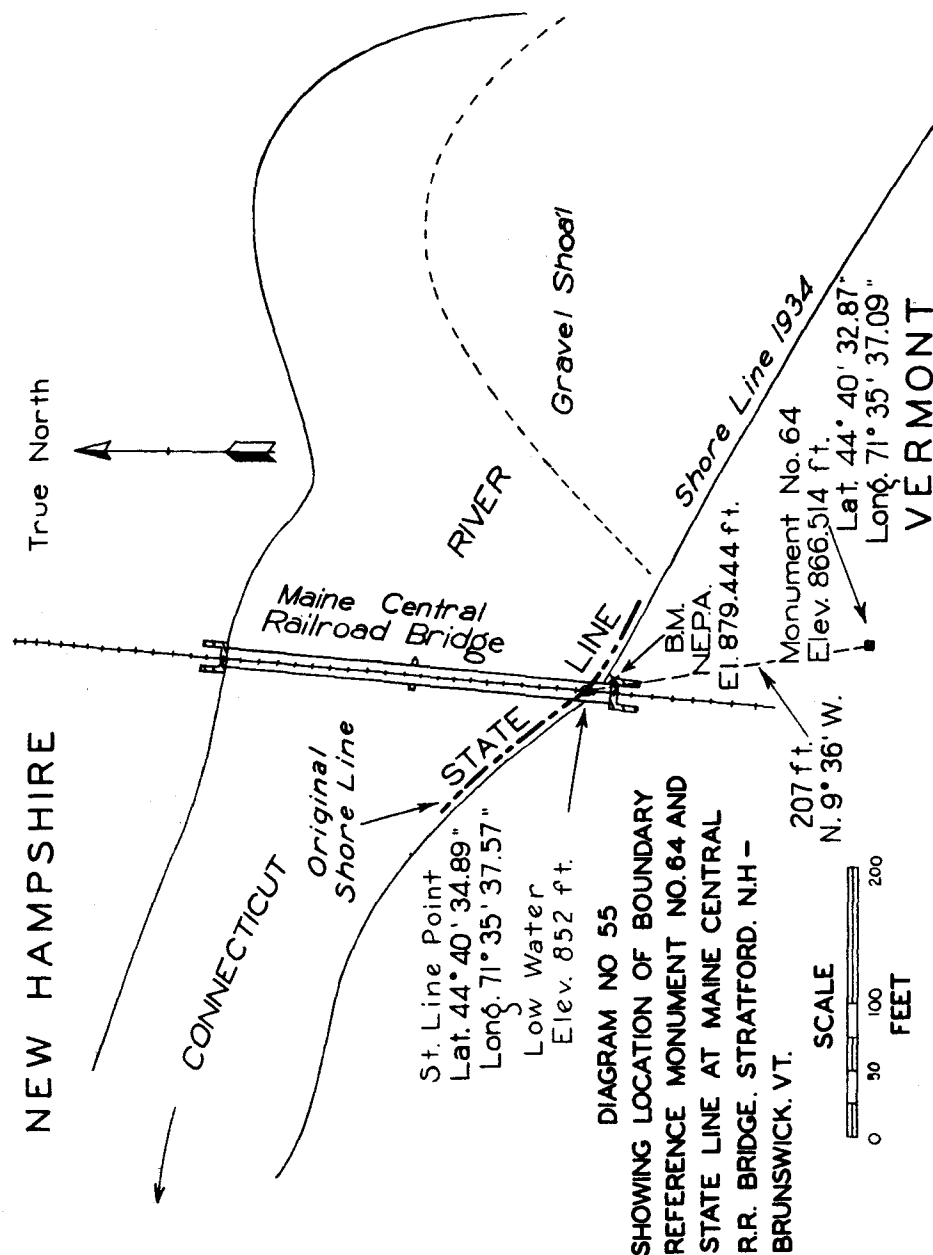
Maidstone station, along Maine Central Railroad, in Essex County, Vermont, 2.25 miles north of, 190 feet south of south end of railroad bridge across the Connecticut River, 50 feet east of center line of track, just inside right-of-way fence, on railroad property. A granite post 6.5 feet long and 12 inches square set 5 feet in ground. Part above ground is dressed to 12 inches square. Bronze tablet set in top, and stamped "Number 64-207 ft. N. $9^{\circ} 36' W.$ " Elevation 866.514 feet. State line point is 207 feet N. $9^{\circ} 36' W.$ from center of marker

Latitude $44^{\circ} 40' 32.87''$ Longitude $71^{\circ} 35' 37.09''$

Vermont-New Hampshire State line point, low water elevation 852 feet

Latitude $44^{\circ} 40' 34.89''$ Longitude $71^{\circ} 35' 37.57''$

Traverse line crosses Maine Central Railroad bridge into New Hampshire.



GUILDHALL QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

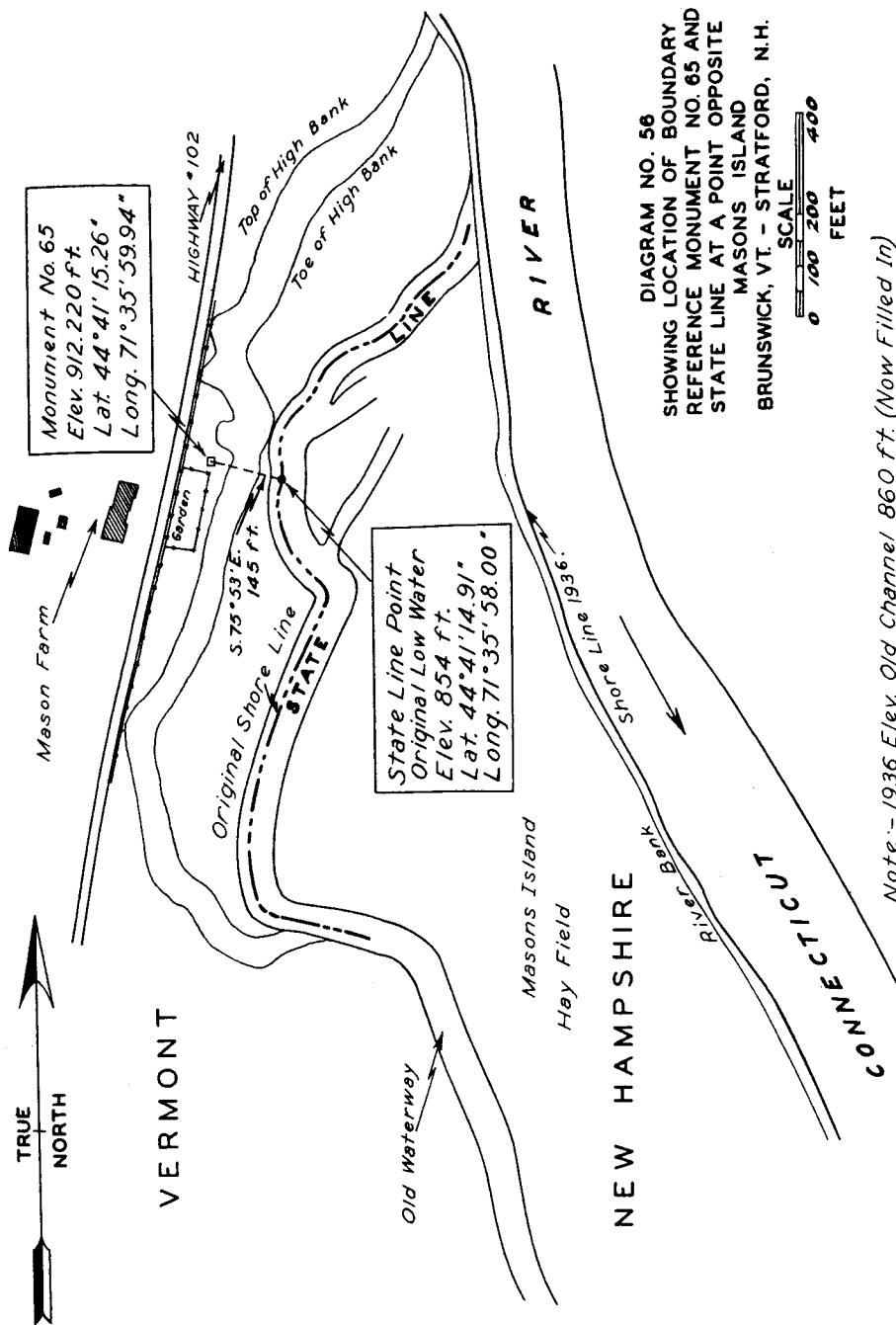
Boundary Reference Monument No. 65. Diagram No. 56

Maidstone Railroad Station, Essex County, Vt., 3.4 miles northwest of, along State highway 102, 1.0 mile northwest of Maine Central Railroad bridge over Connecticut River, on west side of river, 2,000 ft. nearly west from Mason's station at crossing of the Maine Central and Grand Trunk Railroads 0.8 mile south along highway 102 from bridge over Paul Stream, on property of George Mason and 153 ft. nearly east from the northeast corner of his dwelling, in pasture, 80 ft. east of center of highway 102, 35 ft. west of top of steep slope to old riverbed and 19 ft. north of northeast corner of garden fence, about opposite center of Masons Island, No. 23, as shown in Vermont Map Book No. 1, Oratrix exhibit No. 33. A granite post 6½ ft. long and 14 inches square, set 5 ft. in ground. Part above ground is dressed to 12 inches square. Bronze tablet set in top and stamped "Number 65—145 ft. S. 75° 53' E." Elev. 912.220 ft. State line point is 145 ft. S. 75° 53' E. from center of marker

Latitude 44° 41' 15.26" Longitude 71° 35' 59.94"

Vermont-New Hampshire State line point, low water elev. in present (1936) channel 854 ft.; present (1936) elev. old channel 860 ft.

Latitude 44° 41' 14.91" Longitude 71° 35' 58.00"



GUILDHALL QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

Boundary Reference Monument No. 66. Diagram No. 57

Bloomfield, Essex County, Vt., 3.25 miles southeast of; along State highway 102, 10 miles southeast of highway bridge over Wheeler Stream, 1.6 miles north of highway bridge over Paul Stream, 41 ft. west of center of highway at a point about opposite the center of Hinmans Islands Nos. 17 and 18 as shown in Vermont Map Book No. 1, Oratrix Exhibit, 33, and at the head of a small ravine leading from highway to old run of the Connecticut River. Monument stands on the extreme west slope of old roadway which has been replaced by new construction adjacent, both of which form a wide space in the roadway. The slope from roadway to old riverbed is steep and wooded. Island 17 is open and grassy while 18 to the southwest is smaller and brushy. A granite post 6½ ft. long and 14 in. square set 5 ft. in ground. The part above ground is dressed to 12 inches square. Bronze tablet set in top and stamped "Number 66—360 ft. N. 63° 04' E." Elevation 977.367 ft. State line point is 360 ft. N. 63° 04' E. from center of marker.

Latitude 44° 43' 02.71" Longitude 71° 36' 59.38"

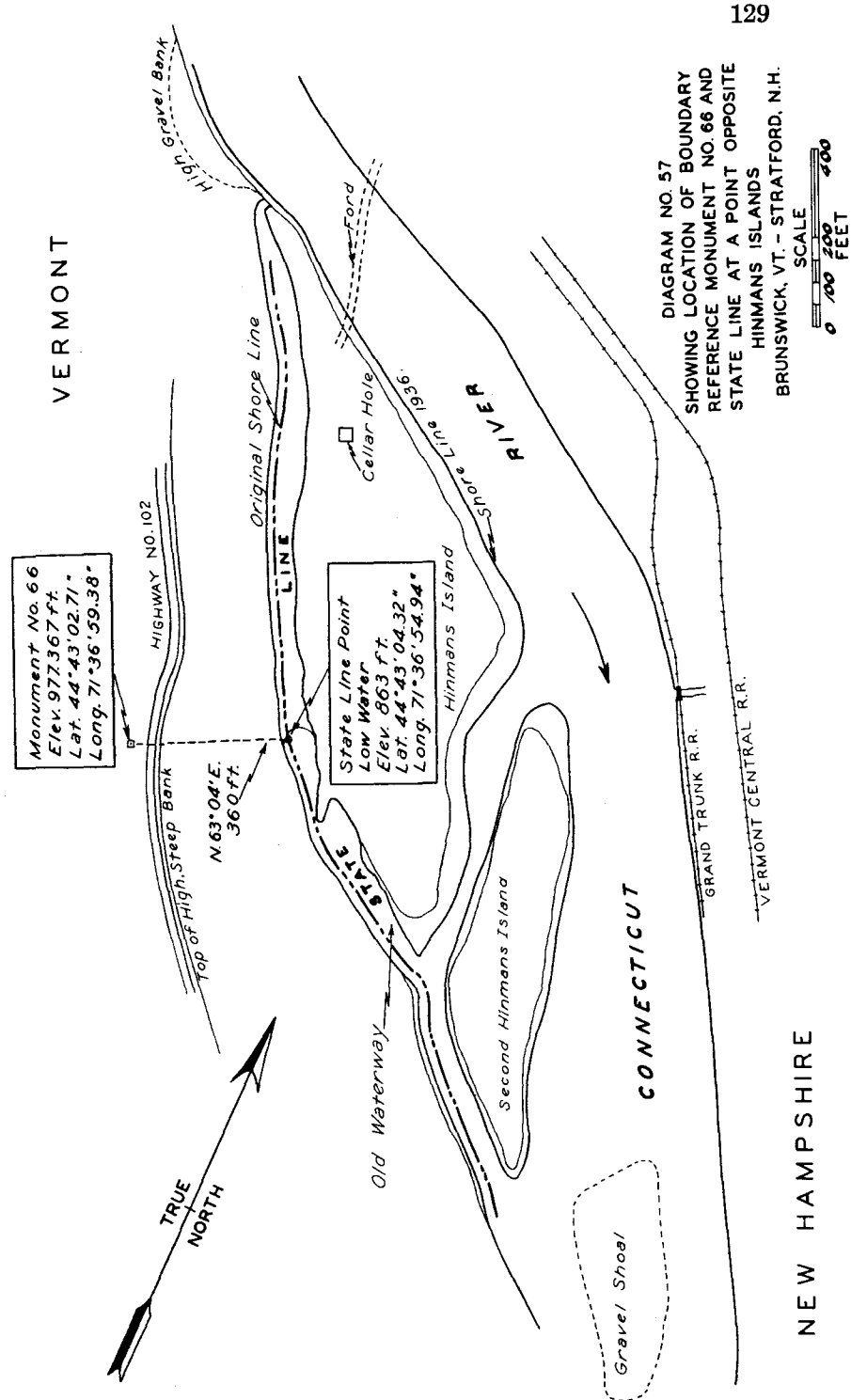
Vermont-New Hampshire State line point, low water elevation 863 ft.

Latitude 44° 43' 04.32" Longitude 71° 36' 54.94"

**U. S. Coast and Geodetic Survey Bench Mark "U 8 1933".
Near Diagram No. 57**

North Stratford, Coos County, N. H., about 3 miles south along Maine Central Railroad from station at, about 337 yards north of milepost "BF 26," about 50 yards west of a wooden bridge over a small stream, at a Grand Trunk Railway System culvert over same stream, about 3 yards east of center line of Grand Trunk Railway System track, and in top of south end of east head wall; a standard U. S. Coast and Geodetic Survey disk stamped "U 8 1933". Elevation used July, 1936, 878.400 feet elevation by U. S. C. & G. S. Oct. 1936, 878.391 feet

Latitude 44° 42' 48.99" Longitude 71° 36' 28.76"



AVERILL QUADRANGLE, VERMONT-NEW HAMPSHIRE

Boundary Reference Monument No. 67. Diagram No. 58

Bloomfield, Essex County, Vt., 62 ft. northwest of northwest end of a two-span steel truss highway bridge over the Connecticut River, 33 feet southwest of the center line of the Grand Trunk Railway, 17 feet northeast of the center line of the road, and in line with railing of footwalk along the northeast side of the bridge. A granite post 6½ feet long by 12 inches square set 5 feet in the ground. Part above ground dressed to 12 inches square. Bronze tablet set in top and stamped "Number 67—77 feet S. 45° 45' E." Elevation 904.483 feet. State line point is 77 feet S. 45° 45' E. from center of marker

Latitude 44° 45' 09.90" Longitude 71° 37' 57.25"

Vermont-New Hampshire State line point, low water elevation 886 feet

Latitude 44° 45' 09.37" Longitude 71° 37' 56.49"

Boundary Reference Monument No. 68. Diagram No. 58

Bloomfield, Essex County, Vt., about 0.2 mile northwest of the Grand Trunk Railway station at Stratford, N. H., 231 feet northwest of the northwest end of the Grand Trunk Railway bridge over the Connecticut River, about 50 feet northwest of the northwest end of a highway underpass, 31 feet northeast of the center line of the main track, and 0.7 foot higher than the top of the rail.

A granite post 6½ feet long and 12 inches square set 5 feet in the ground. Part above ground is dressed to 12 inches square. Bronze tablet in top and stamped "Number 68—253 feet S. 47° 35' E." Elevation 915.618 feet. State line point is 253 feet S. 47° 35' E. from center of marker

Latitude 44° 45' 11.42" Longitude 71° 37' 58.63"

Vermont-New Hampshire State line point, low water elevation 886 feet

Latitude 44° 45' 09.74" Longitude 71° 37' 56.04"

AVERILL QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued**U. S. Geological Survey Bench Mark "1924 H 34".
Diagram No. 58**

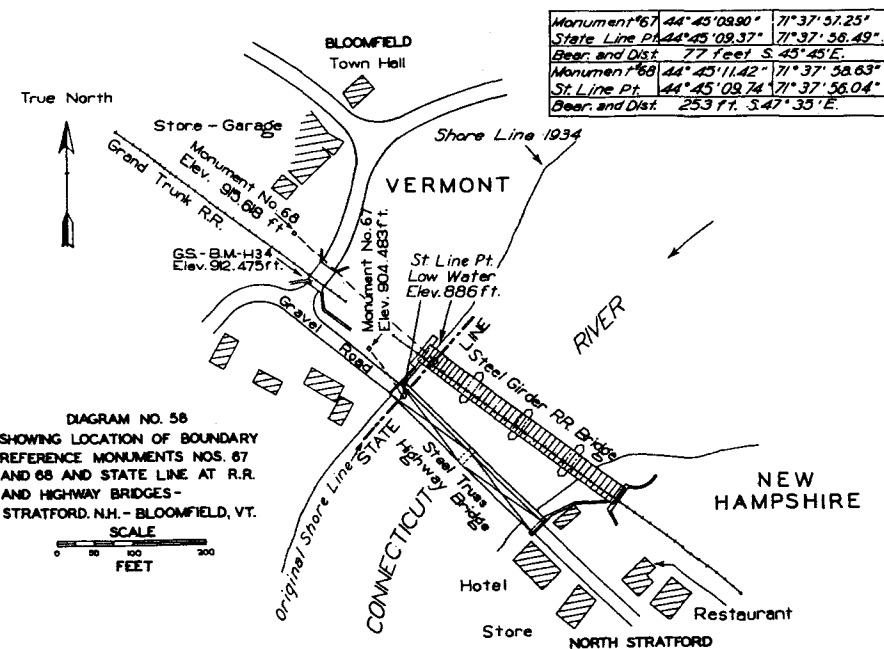
Bloomfield, Essex County, Vermont, at overhead crossing of Grand Trunk Railway, in north end of west abutment: standard U. S. Geological Survey tablet stamped "1924 H 34". Elevation used in 1934; 912.475 feet; elevation by U. S. Coast and Geodetic Survey adjustment of October, 1936, 912.501 feet

Latitude 44° 45' 11.08" Longitude 71° 37' 58.14"

**U. S. Geological Survey Bench Mark "C 4 1929". Near
Diagram No. 58**

North Stratford, N. H., in triangular memorial park, on west side of highway between railroad crossings, 150 feet south of Maine Central Railroad Station, 220 feet northwest of Grand Trunk Railway station, in south face of stone pyramid, 1.6 feet above ground; bronze U. S. Geological Survey tablet stamped "C 4 1929." Elevation 911.386 feet

Latitude 44° 45' 06.44" Longitude 71° 37' 47.78"



AVERILL QUADRANGLE, VERMONT-NEW HAMPSHIRE

Boundary Reference Monument No. 69. Diagram No. 59

Bloomfield, Essex County, Vt., 0.68 mile northeast along State highway 102, thence 320 ft. southeast of; opposite Ed. Daleys Island No. 12 as shown on Vermont Map Book No. 1, Oratrix Exhibit No. 33, on property of Mrs. Louis Bishop, 8 ft. northwest of top of steep bank overlooking the Connecticut River, at a point 320 ft. southeast of center of State highway 102, 720 ft. northeast of dwelling of Mrs. Maud T. Schoff, 960 ft. nearly south from the old Ed. Daley residence and 63 ft. nearly east, along the top of slope, from wire fence and hedgerow forming the line between Schoff and Bishop; monument is 184.74 ft. N. $42^{\circ} 29' 26''$ W. from Boundary Reference Tablet No. 70. A granite post $6\frac{1}{2}$ ft. long and 14 inches square set 5 ft. in ground. The part above ground is dressed to 12 inches square. Bronze tablet set in top and stamped "Number 69—197 ft. S. $42^{\circ} 29' E.$ " Elev. 960.956 ft. State line point is 197 ft. S. $42^{\circ} 29' E.$ " from center of marker

Latitude $44^{\circ} 45' 26.60''$ Longitude $71^{\circ} 37' 12.04''$

Boundary Reference Tablet No. 70. Diagram No. 59

Bloomfield, Essex County, Vt., 0.68 mile northeast along State highway 102 thence 506 ft. southeast of, opposite the approximate center of Ed. Daleys Island, 184.74 ft. S. $42^{\circ} 29' 26'' E.$ from Boundary Reference Monument No. 69, near center of a solid rock ledge extending northeast-southwest along the Vermont bank of channel along northwest side of Ed. Daleys Island, 12 ft. from low water and 15 ft. northeast of a 30-inch elm tree on bank which appears to be on line between property of Mrs. Maud Schoff and Mrs. Louis Bishop. A bronze tablet set in rock and stamped "Number 70—12 ft. S. $42^{\circ} 29' E.$ " Elev. 895.295 ft. State line point is 12 ft. S. $42^{\circ} 29' E.$ from center of marker

Latitude $44^{\circ} 45' 25.26''$ Longitude $71^{\circ} 37' 10.31''$

Vermont-New Hampshire State line point, low water elev. 892 ft.

Latitude $44^{\circ} 45' 25.17''$ Longitude $71^{\circ} 37' 10.20''$

AVERILL QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued**U. S. Coast and Geodetic Survey Bench Mark "T 8 1935".
Near Diagram No. 59**

North Stratford, Coos County, New Hampshire, 0.9 mile north, along Maine Central R. R., from station at, 121 yards south of milepost "BF 22," 35 yards south of a sign marking the north limits of the North Stratford yards, 8 yards west of center line of track, in top of large boulder, 3 feet lower than the track.

A standard U. S. Coast and Geodetic Survey disk stamped "T 8 1935." Elevation used July, 1936, 927.141 feet; elevation by U. S. Coast and Geodetic Survey adjustment October, 1936, 927.121 feet.

Latitude $44^{\circ} 45' 29.45''$ Longitude $71^{\circ} 36' 51.60''$

**Tie Point: North Stratford Triangulation Station, Coos
County, N. H., by U. S. Geological Survey. Near Dia-
grams Nos. 58 and 59**

In village of North Stratford, on open hill used as pasture, just north of school and east of railroad station, about 1,000 feet north of center of village. The station is on the most southwesterly bump from which West Pond Mountain may be seen. Station mark: A drill hole in large rock flush with ground on highest part of bump.

Reference mark: Highest part of a large irregular-shaped rock, distant 14.5 feet S. $88^{\circ} 14' W.$ (true). A chiseled line on this rock points toward station

Latitude $44^{\circ} 45' 04.27''$ Longitude $71^{\circ} 37' 36.05''$

See Appendix For Diagram 59 Page 198

VERMONT-NEW HAMPSHIRE—
Continued

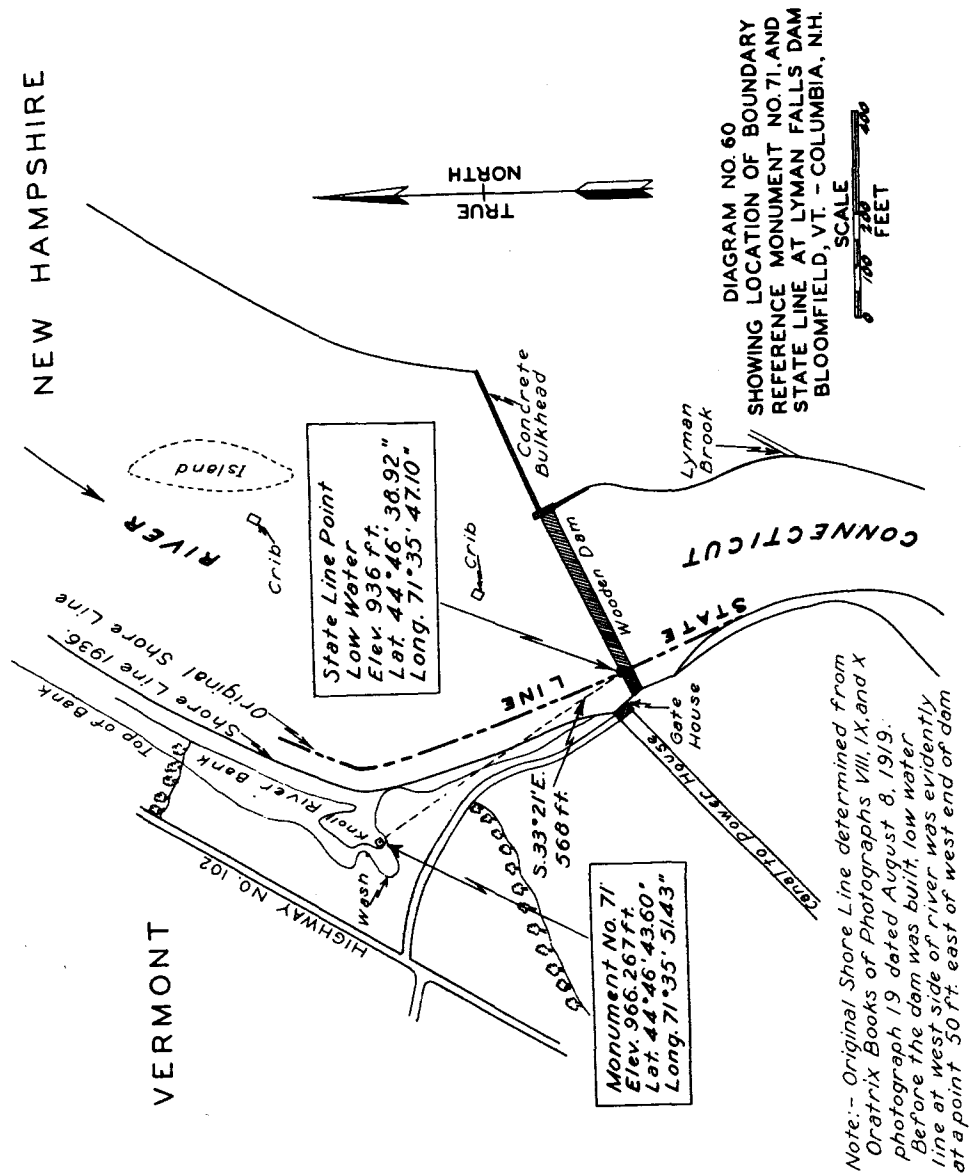
Boundary Reference Monument No. 71. Diagram No. 60

Bloomfield, Essex County, Vt., 2½ miles northeast of, at Lyman Falls Dam, on property of The Public Service Company of New Hampshire, 564 ft. northwest of west end of dam, in open field near center of a small low ridge, 232 ft. nearly east from junction of road to dam and State highway 102, 80 ft. west of west bank of Connecticut River. A granite post 6½ ft. long and 14 inches square set 5 ft. in ground. The part above ground is dressed to 12 inches square. Bronze tablet set in top and stamped "Number 71—568 ft. S. 33° 21' E." Elev. 966.267 ft. State line point is 568 ft. S. 33° 21' E. from center of marker

Latitude 44° 46' 43.60" Longitude 71° 35' 51.43"

Vermont-New Hampshire State line point, low water elev. 936 ft.

Latitude 44° 46' 38.92" Longitude 71° 35' 47.10"



AVERRILL QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

Boundary Reference Monument No. 72. Diagram No. 61

Bloomfield, Essex County, Vt., 3.2 miles northeast of, 0.7 mile northeast of Bloomfield Methodist Church along State highway 102 to the Bloomfield Cemetery, thence 650 ft. southeast, 215 ft. southeast of the southeast corner of fence enclosing cemetery, near the southeast end of a point of bluff overlooking the Connecticut River, 90 ft. south of a wire fence and hedgerow, 478 ft. northwest of the west bank of the Connecticut River at a point opposite a small island and approximately 5,000 ft. north of Lyman Falls power company dam. A granite post 6½ ft. long and 14 inches square, set 5 ft. in ground. The part above ground is dressed to 12 inches square. Bronze tablet set in top and stamped "Number 72—500 ft. S. 64° 12' E." Elev. 1,034.162 ft." State line point is 500 ft. S. 64° 12' E. from center of marker

Latitude 44° 47' 11.81" longitude 71° 34' 51.49"

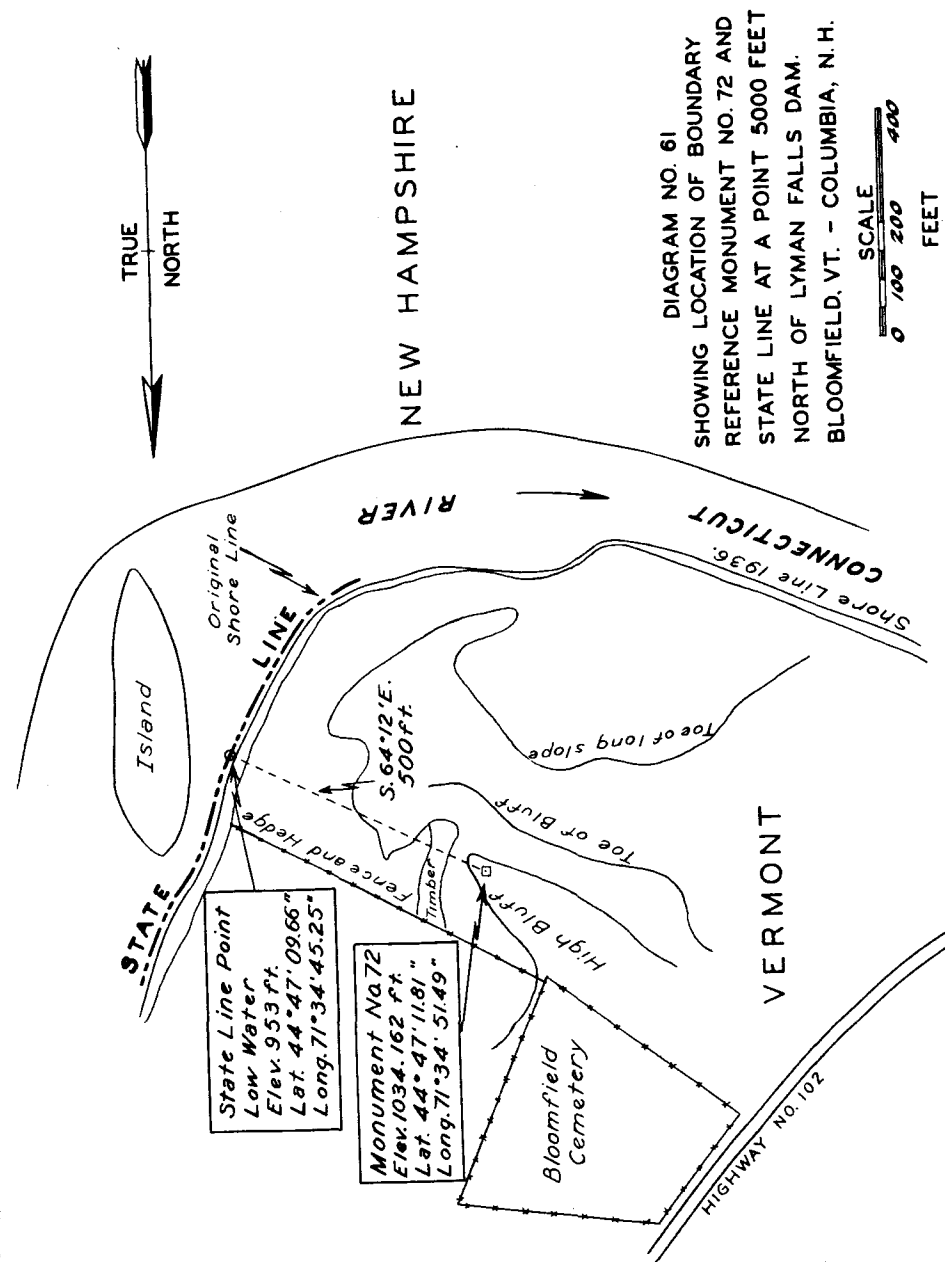
Vermont-New Hampshire State line point, low water elev. 953 ft.

Latitude 44° 47' 09.66" longitude 71° 34' 45.25"

U. S. Coast and Geodetic Survey Bench Mark "S 8 1933"
North of Diagram No. 61

North Stratford, Coos County, N. H., 5.8 miles north along the Maine Central Railroad from the station at, Cones Flag Station, 0.5 mile south of, 15 yards southwest of a tool house, 12 yards west of the center line of the track, in top of boulder and 8 feet lower than track. A standard U. S. Coast and Geodetic Survey disk stamped "S 8 1933." Elevation used July, 1936, 985.913 feet; elevation by U. S. C. & G. S. adjustment, October, 1936, is 985.861 feet.

Latitude 44° 48' 48.93" Longitude 71° 34' 23.36"



AVERILL QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

Boundary Reference Monument No. 73. Diagram No. 62

Colebrook, Coos County, N. H., 3.77 miles southwest of, along Maine Central Railroad; 630 ft. nearly north of Maine Central Railroad station at Columbia Bridge, 184 ft. northwest of northwest end of Columbia Highway bridge over Connecticut River, 108 ft. northwest of road crossing about midway between old blacksmith shop and road leading west to gravel pit, 10 ft. south of south end of old cellar hole, on property of Mr. John B. Perron and 300 ft. southwest from his residence. A granite post 6½ ft. long and 14 inches square set 5 ft. in ground. The part above ground is dressed to 12 inches square. Bronze tablet set in top and stamped "Number 73—213 ft. S. 46° 08' E." Elev. 1,007.601 ft. State line point is 213 ft. S. 46° 08' E. from center of marker

Latitude 44° 51' 13.29" Longitude 71° 33' 10.35"

Vermont-New Hampshire State line point, low water elev. 982 ft.

Latitude 44° 51' 11.83" Longitude 71° 33' 08.22"

Boundary Reference Monument No. 74. Diagram No. 62

Colebrook, Coos County, N. H., 3.77 miles southwest along Maine Central Railroad to Columbia highway bridge, which is about 400 ft. north of Maine Central station Columbia Bridge, 1,600 ft. northeast along Vt. State highway 102 from Columbia highway bridge over the Connecticut River, 760 ft. southeast from the Blodgett Schoolhouse, 455 ft. nearly east from the southeast corner of Mr. Blodgett's residence, 458 ft. northeast from the northeast corner of Mr. Peter J. Daley's residence, 300 ft. northeast from northeast corner of cemetery on east side of highway 102 and opposite Mr. Daley's residence, about two-thirds of the way from center of highway 102 and the west bank of the west branch of Connecticut River around Daleys Island, in cultivated field on the second bench of land opposite center of Daleys Island which is designated as Island 8 on Vermont Map Book 1, Oratrix Exhibit 33. A granite post 6½ ft. long and 14 inches square, set 5 ft. in ground. The part above ground is dressed to 12 inches square. Bronze tablet set in top and stamped "Number 74—608 ft. N. 59° 53' E." Elev. 1,007.847 ft. State line point is 608 ft. N. 59° 53' E. from center of marker

Latitude 44° 51' 26.62" Longitude 71° 32' 59.72"

Vermont-New Hampshire State line point, low water elev. 984 ft.

Latitude 44° 51' 29.63" Longitude 71° 32' 52.42"

U. S. Geological Survey Bench Mark "C 6 1929". Near Diagram No. 62

Colebrook, Coos County, New Hampshire, 6 miles south of, 25 feet east of Maine Central Railroad track, 200 feet south of milepost "BF-16" in top of boulder; standard U. S. Geological Survey bronze tablet stamped "C 6 1929." Elevation used July, 1936, 998.154 feet; elevation by U. S. C. & G. S. October, 1936, 998.095 feet

Latitude 44° 49' 32.70" Longitude 71° 33' 36.65"

AVERILL QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

U. S. Geological Survey Bench Mark "C 7 1929". Near Diagram No. 62

Colebrook, Coos County, New Hampshire, 3.2 miles south of, 0.75 mile north of Columbia Bridge, 230 feet east of Maine Central Railroad track, 40 feet west of highway, in meadow, in top of boulder; standard U. S. Geological Survey bronze tablet stamped "C 7 1929". Elevation used July, 1936, 1,012.278 feet; elevation by U. S. C. & G. S. October, 1936, 1,012.203 feet

Latitude 44° 51' 40.91" Longitude 71° 32' 40.07"

U. S. Geological Survey Bench Mark "1001.40". Near Diagram No. 62

N. E. P. A. bench mark bronze tablet on southwest corner of west end of north abutment of Columbia Bridge over Connecticut River, and stamped in addition to the usual N. E. P. A. stamping, "U. S. G. S. 1001.40". Elevation 1001.60 feet

Latitude 44° 51' 11.86" Longitude 71° 33' 08.62"

See Appendix For Diagram 62 Page 199

AVERILL QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

Boundary Reference Monument No. 75. Diagram No. 63

Colebrook, Coos County, New Hampshire, 1.1 miles southwest of, 1.17 miles along Vermont State Highway 102 southwest of the west end of highway bridge over Connecticut River, 0.5 mile west of Colebrook, 0.3 mile southwest of abandoned schoolhouse, on east edge of road, 30 feet southeast of center of highway at summit of small grade where highway going south comes back to river, 35 feet west of top of slope to river and 230 feet north of farm road east to meadow, 60 feet north of a point in line with west bank of river to northeast, 750 feet north of culvert over drain, on property of Mr. Nelson Holbrook. A granite post 6½ feet long and 14 inches square, set 5 feet in ground. The part above ground is dressed to 12 inches square. Bronze tablet set in top and stamped "Number 75—1904 ft. S. 73° 09' E." Elevation 1,017.710 feet. State line point is 1,904 feet S. 73° 09' E. from center of marker

Latitude 44° 53' 07.87" Longitude 71° 31' 10.09"

Vermont-New Hampshire State line point, low water elevation 992 feet

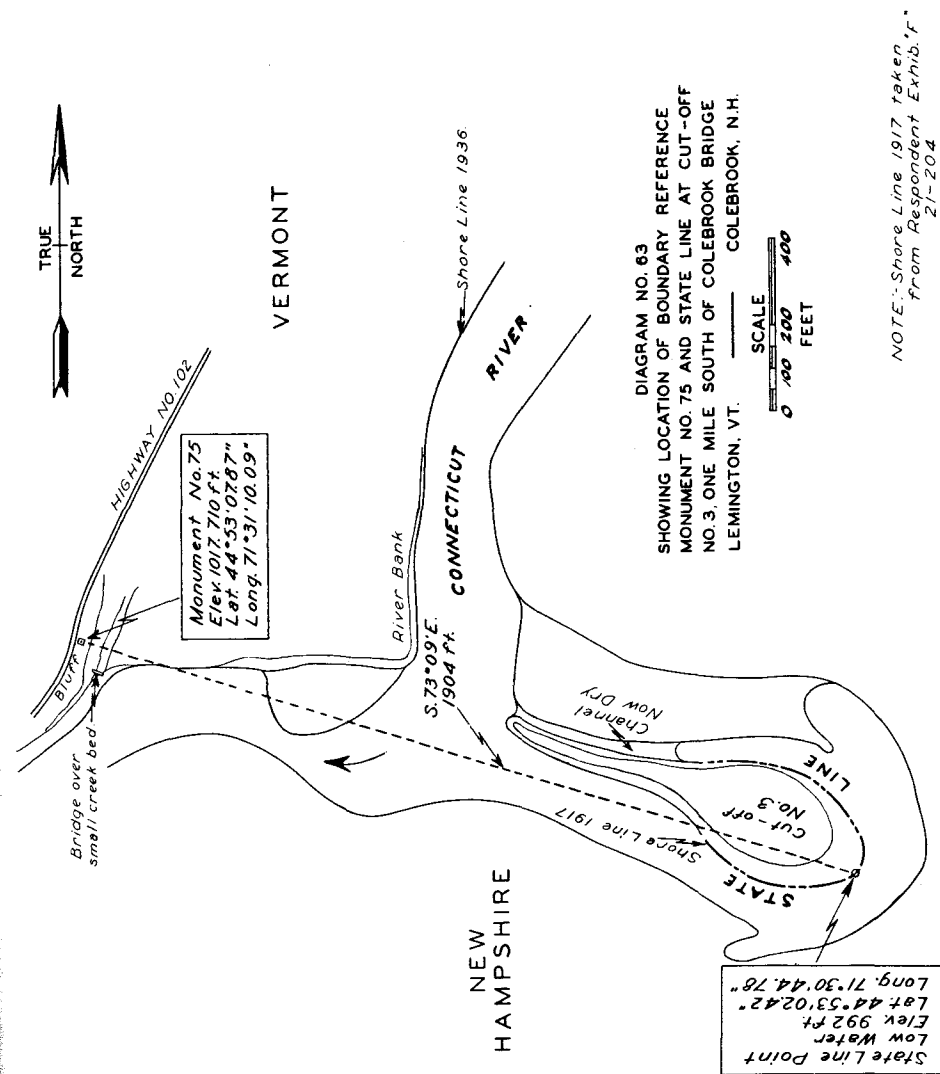
Latitude 44° 53' 02.42" Longitude 71° 30' 44.78"

U. S. Coast and Geodetic Survey Bench Mark "R 8 1933".
Near Diagram No. 63

Colebrook, Coos County, New Hampshire, 1.4 miles south along the Maine Central Railroad from the Station in, about ⅓ mile north of milepost P-143 BF 12, at a bridge over Simms Stream, 5 yards west of the center line of the track, in top of north wing wall, level with the bridge seat, and about 6½ feet lower than the rail.

A standard U. S. Coast and Geodetic Survey disk stamped "R 8 1933". Elevation used July, 1936, 1,009.361 feet; elevation by U. S. C. & G. S. October, 1936, 1,009.276 feet

Latitude 44° 52' 37.45" Longitude 71° 31' 15.73"



AVERRILL QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

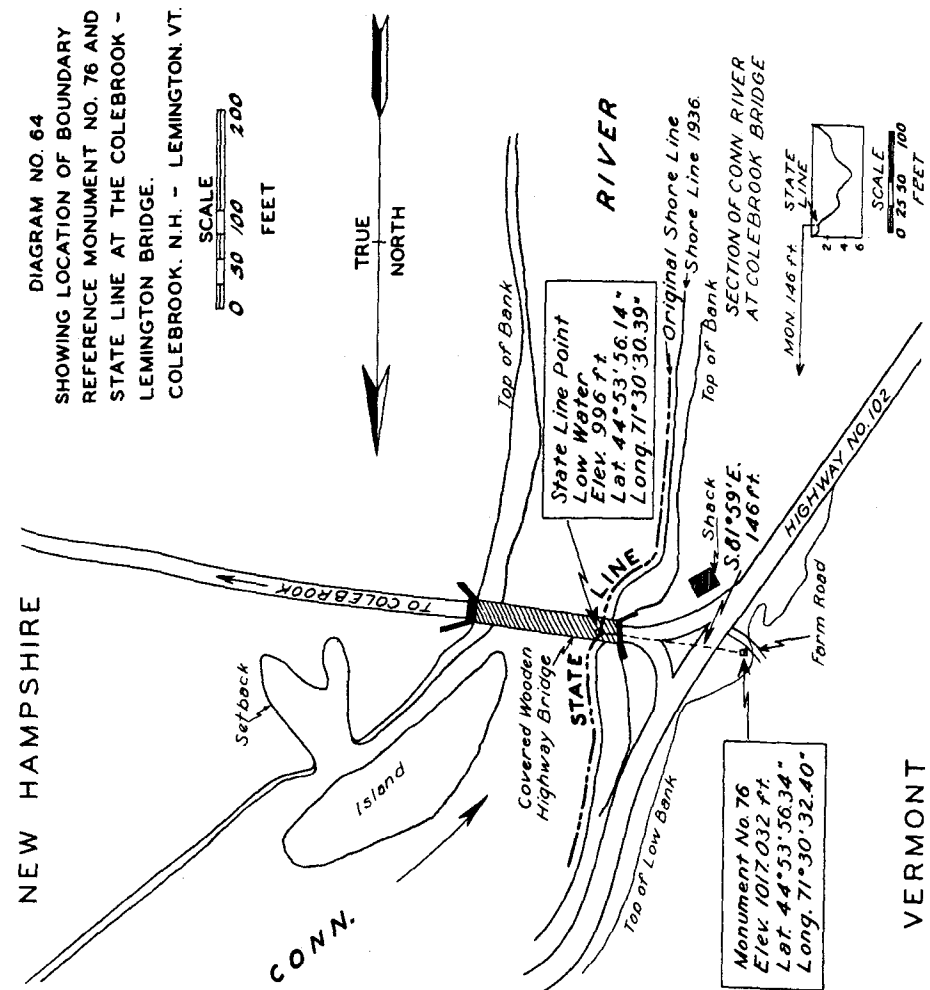
Boundary Reference Monument No. 76. Diagram No. 64

Colebrook, Coos County, New Hampshire, 0.5 mile west of, 30 feet west of center line of Vermont State Highway 102, in line with and 107 feet west of west end of covered highway bridge over Connecticut River, at foot of bank in small cove 15 feet by 15 feet 2 feet higher than surface of highway, near west edge of highway right of way. A granite post 6.5 feet long and 14 inches square, set 5 feet in ground. The part above ground is dressed to 12 inches square. Bronze tablet set in top and stamped "Number 76—146 feet S. 81° 59' E." Elevation 1,107.032 feet. State line point is 146 feet S. 81° 59' E. from center of marker

Latitude $44^{\circ} 53' 56.34''$ Longitude $71^{\circ} 30' 32.40''$

Vermont-New Hampshire State line point, low water elevation 996 feet

Latitude $44^{\circ} 53' 56.14''$ Longitude $71^{\circ} 30' 30.39''$



AVERILL QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

Boundary Reference Monument No. 77. Diagram No. 65

Highway bridge over Connecticut River, 0.5 mile west of Colebrook, Coos County, New Hampshire, 3.3 miles north of, along Vermont State highway 102, 0.9 mile north of South Canaan School, 0.2 mile north of bridge over Capon Brook, at the cutoff 0.25 mile north of mouth of Capon Brook, from residence of Mr. Martin Bunnell thence 500 feet east of center of highway 102 to monument situated in hedgerow and fence, on or near the division line between the property of Mr. Bunnell to the north and Mr. E. C. Gilman to the south, and is near the northeast end of a bluff overlooking the Connecticut River, 55 feet south of the north edge and 85 feet west of the east edge of bluff, 320 feet east and 90 feet south of the southeast corner of large barn and about 490 feet southwest of center of small island formed by a recent cutoff. This monument is 1,592.3 feet S. 14° 21' E., true bearing from Boundary Reference Monument No. 78. A granite post 6.5 feet long and 14 inches square set 5 feet in ground. The part above ground is dressed to 12 inches square. Bronze tablet set in top and stamped "Number 77—543 feet N. 40° 18' E." Elevation 1,023.098 feet. State line point is 543 feet N. 40° 18' E. from center of marker

Latitude 44° 56' 22.56" Longitude 71° 31' 26.96"

Vermont-New Hampshire State line point, low water elevation 998 feet

Latitude 44° 56' 26.65" Longitude 71° 31' 22.08"

Boundary Reference Monument No. 78. Diagram No. 65

Highway bridge over Connecticut River, 0.5 mile west of Colebrook, Coos County, New Hampshire, 3.7 miles north of, along Vermont State Highway 102, 1.3 miles north of South Canaan School, 0.6 mile north of bridge over Capon Brook, to center of highway 102 opposite residence of Mr. Alex McKinnon, thence 440 feet east to monument situated 15 feet north of south edge of tableland overlooking the Connecticut River about 0.5 mile west of west

AVERILL QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

bank of river and opposite the terminus of the Colebrook-Stewartstown, New Hampshire, Township line and approximately in line with the township line projected into Vermont, in open field, 34 feet south and 90 feet east of the southeast corner of Mr. McKinnon's barn. Monument No. 78 is 1,592.3 feet N. 14° 21' W. true bearing from Boundary Reference Monument No. 77. A granite post 6.5 feet long and 14 inches square, set 5 feet in ground. The part above ground is dressed to 12 inches square. Bronze tablet set in top and stamped "Number 78—2,574 feet S. 81° 57' E." Elevation 1,021.586 feet. State line point is 2,574 feet S. 81° 57' E. from center of marker

Latitude 44° 56' 37.79" Longitude 71° 31' 32.45"

Vermont-New Hampshire State line point, low water elevation 998 feet

Latitude 44° 56' 34.24" Longitude 71° 30' 57.02"

Colebrook-Stewartstown Town line wooden post in New Hampshire:

Latitude 44° 56' 33.91" Longitude 71° 30' 54.42"

See Appendix For Diagram 65 Page 200

VERMONT-NEW HAMPSHIRE—
Continued

Boundary Reference Monument No. 79. Diagram No. 66

Canaan, Essex County, Vermont, 2.6 miles south of, along highway 102 to a point 500 feet south of Mr. Freeman Russell's residence thence 385 feet easterly from center line of highway to monument in hedgerow along wire fence line between the property of Mr. Freeman Russell on the north and Mr. Archie Brockney on the south, opposite cutoff 2 as designated in Vermont Map Book 1, Oratrix Exhibit 33, at north edge near top of small knoll overlooking the Connecticut River, 625 feet southeast from residence of Mr. Russell and 770 feet northeast from residence of Mr. Brockney. Hill slopes steeply to north and east and gently to south and west, a large elm tree stands in hedgerow distant 70 feet west from monument, a large prominent rock stands in river bed S. 36° 24' W. true bearing and distant 660 feet from monument. From monument to southeast brow of hill is 150 feet, to east brow is 10 feet, to north brow 10 feet, the distance and true bearing from Monument 79 to Monument 80 is 1,023.1 feet N. 4° 44' 52" E. A granite post 6.5 feet long and 14 inches square, set 5 feet in ground. The part above ground is dressed to 12 inches square. Bronze tablet set in top and stamped "Number 79—2024 ft. N. 65° 31' E." Elevation 1,052.007 feet. State line point is 2,024 feet N. 65° 31' E. from center of marker

Latitude 44° 57' 55.45" Longitude 71° 31' 32.17"

Vermont-New Hampshire State line point, low water elevation 1,004 feet

Latitude 44° 58' 03.73" Longitude 71° 31' 06.55"

Boundary Reference Monument No. 80. Diagram No. 66

Canaan, Essex County, Vermont, 2.4 miles south of, along highway 102 to a point 480 feet north of Mr. Freeman Russell's residence thence 220 feet east to monument, opposite Cutoff 1 as designated in Vermont Map Book 1, Oratrix Exhibit 33, on property of Mr. Freeman Russell, 600 feet northeast of northeast corner of his dwelling, 475 feet northeast of northeast corner of barn on east side of highway, 5 feet west of top of first steep slope east of

VERMONT-NEW HAMPSHIRE—
Continued

highway, 35 feet south of south edge of an abandoned gravel pit, at east edge of grass field in last furrow at top of steep lightly timbered slope east to Connecticut River. The distance and true bearing from Monument 80 to Monument 79 is 1,023.1 feet S. 4° 44' 52" W. A granite post 6.5 feet long and 14 inches square set 5 feet in ground. The part above ground is dressed to 12 inches square. A bronze tablet set in top and stamped "Number 80—807 feet N. 69° 06' E." Elevation 1,055.501 feet. State line point is 807 feet N. 69° 06' E. from center of marker

Latitude 44° 58' 05.52" Longitude 71° 31' 30.99"

Vermont-New Hampshire State line point, low water elevation 1,004 feet

Latitude 44° 58' 08.36" Longitude 71° 31' 20.50"

See Appendix For Diagram 66 Page 201

AVERILL QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

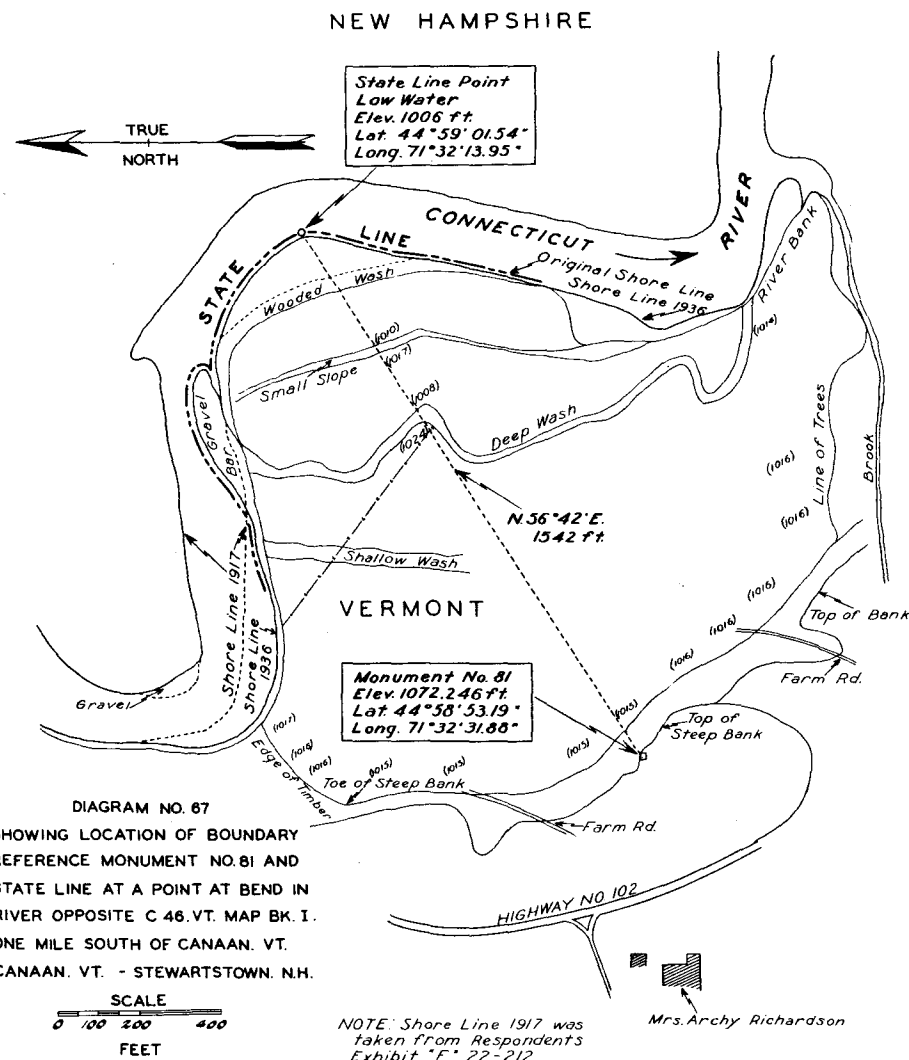
Boundary Reference Monument No. 81. Diagram No. 67

Canaan, Essex County, Vermont, 1.1 miles south of, along State highway 102 to public T road west to Averill near the residence of Mrs. Archy Richardson, thence 415 feet south-east to monument situated on property of Mrs. Archy Richardson, at top of first slope east of highway, about 750 feet northeast of Vermont State Fish Hatchery, 500 feet nearly east from residence of Mrs. Archy Richardson. Monument stands at edge of field 10 feet south and 20 feet west of top of slope to a possible ancient bed of river and overlooks the villages of Canaan, Vermont, and West Stewartstown, New Hampshire, and the Connecticut River for a distance of two miles to the south. A granite post 6.5 feet long and 14 inches square, set 5 feet in ground. The part above ground is dressed to 12 inches square. Bronze tablet set in top and stamped "Number 81—1,542 feet N. 56° 42' E." Elevation 1,072.246 feet. State line point is 1,542 feet N. 56° 42' E. from center of marker

Latitude 44° 58' 53.19" Longitude 71° 32' 31.88"

Vermont-New Hampshire State line point, low water elevation 1,006 feet

Latitude 44° 59' 01.54" Longitude 71° 32' 13.95"



AVERILL QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

Boundary Reference Monument No. 82. Diagram No. 68

Canaan, Essex County, Vermont, 0.5 mile south of, along State highway 102 to bridge over Leach Creek thence 1,050 feet southeast to monument situated in open grass field on highest part of small knoll on the property of Mr. Ellis Gray, 45 feet southeast of northwest end of knoll and midway east and west, near Island 7 which is opposite Coos County, New Hampshire, county farm, 115 feet northwest of old channel of Connecticut River, 15 feet north of edge of abandoned gravel pit. The monument is placed at this point near the west end of the island as all other adjacent land is subject to overflow of water and ice and would therefore be insecure. The island is being gradually washed away. A granite post 6.5 feet long and 14 inches square set 5 feet in ground. The part above ground is dressed to 12 inches square. Bronze tablet set in top and stamped "Number 82—115 feet S. 49° 53' E." Elevation 1,033.961 feet. State line point is 115 feet S. 49° 53' E. from center of marker

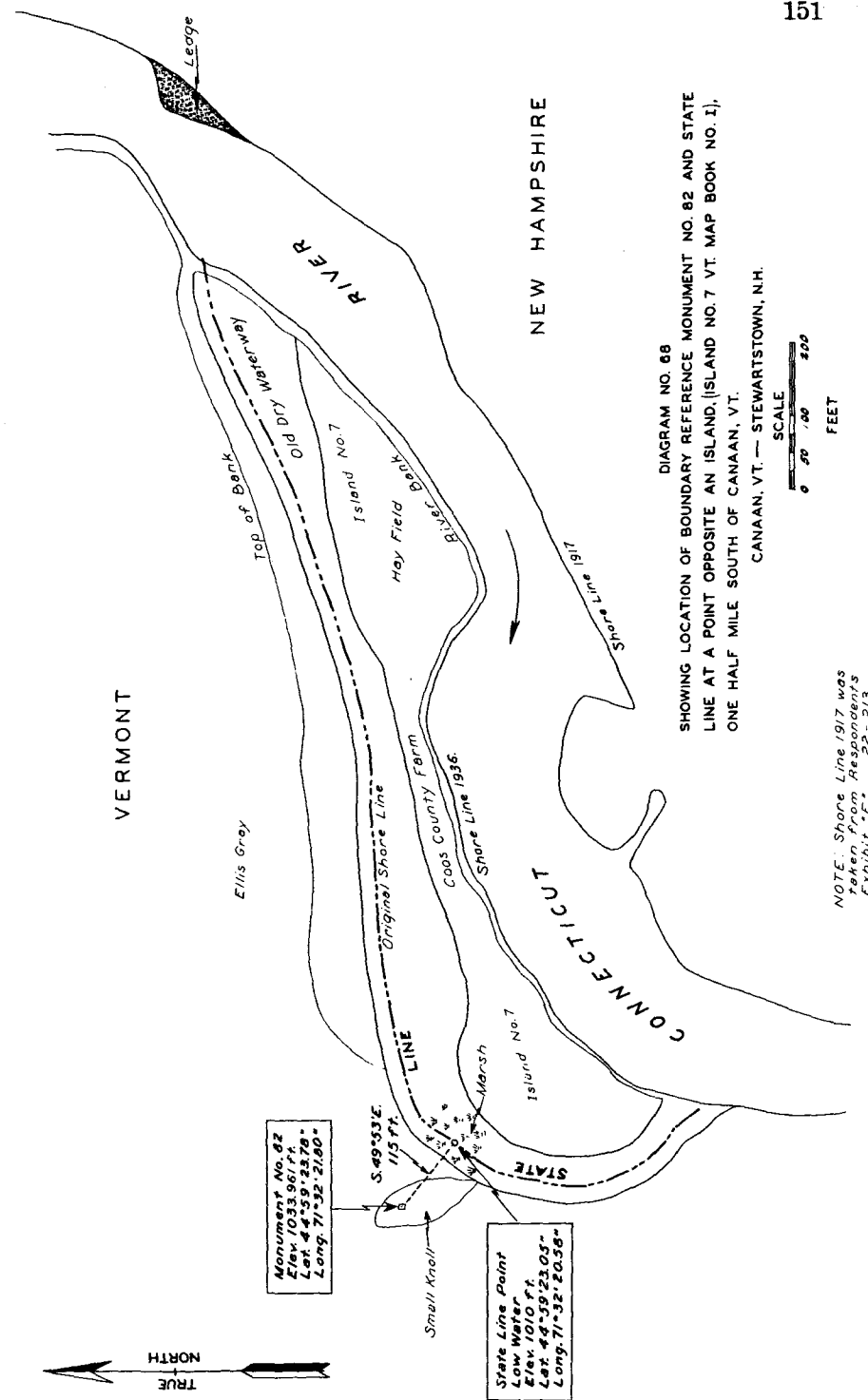
Latitude 44° 59' 23.78" Longitude 71° 32' 21.80"

Vermont-New Hampshire State line point, low water elevation 1,010 feet

Latitude 44° 59' 23.05" Longitude 71° 32' 20.58"

Chiseled cross on sidewalk in Canaan, Vt.

Latitude 44° 59' 46.04" Longitude 71° 32' 09.07"



AVERRILL QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

Boundary Reference Monument No. 83. Diagram No. 69

Canaan, Essex County, Vermont, at the west end of Canaan, Vermont-West Stewartstown, New Hampshire highway bridge, 3 feet north of a point in line with the hand rail on the north or upstream side of bridge and 128 feet northwest from the west end of bridge proper, on north side of street, in front yard of the residence of Mrs. G. C. Ayers, 3 feet east of east end of steps to front entrance and 3 feet south of south edge of porch. A granite post 6.5 feet long and 14 inches square, set 5 feet in ground. The part above ground is dressed to 12 inches square. Bronze tablet set in top and stamped "Number 83—196 feet S. 62° 30' E. Elevation 1,049.205 feet. State line point is 196 feet S. 62° 30' E. from center of marker

Latitude 44° 59' 46.31" Longitude 71° 32' 09.50"

Vermont-New Hampshire State line point, low water elevation 1,017 feet

Latitude 44° 59' 45.42" Longitude 71° 32' 07.08"

U. S. Geological Survey Bench Mark "1924 H 29"
Near Diagram No. 69

Canaan, Essex County, Vermont, in southwest corner of main crossroads, in center of village in north end of park, in center of north side of concrete foundation to the Soldiers Memorial Tablet, a standard U. S. Geological Survey bronze tablet stamped "1924 H 29." Elevation 1,042.603 feet. (Adjusted value by U. S. Coast and Geodetic Survey October 17, 1936.)

Latitude 44° 59' 46.72" Longitude 71° 32' 21.23"

Canaan, chiseled cross on concrete wing wall of driveway entrance to building near west end of old dam

Latitude 44° 59' 50.17" Longitude 71° 32' 02.86"

Boundary Reference Monument No. 84. Diagram No. 69

Canaan, Essex County, Vermont, 540 feet above the Canaan, Vermont-West Stewartstown, New Hampshire highway bridge over the Connecticut River, in line with and opposite west end of the William F. Allen Company's old dam site (dam washed out), 30 feet northwest of center of penstock, 9.6 feet in diameter, which supplies water to the Public Service Company of New Hampshire (part of New England Public Service Company) power house, 230 feet to southwest, 6 feet west of top of bank, 107 feet northeast of northeast corner of iron fence around transformer yard, 11.5 feet southeast of southeast corner of company storehouse which stands between public road and penstock. A granite post 6.5 feet long and 14 inches square, set 5 feet in ground. The part above ground is dressed to 12 inches square. Bronze tablet set in top and stamped "Number 84—173 feet S. 34° 55' E." Elevation 1,047.547 feet. State line point is 173 feet S. 34° 55' E. from center of marker

Latitude 44° 59' 49.85" Longitude 71° 32' 02.34"

Vermont-New Hampshire State line point, low water elevation 1,023 feet

Latitude 44° 59' 48.45" Longitude 71° 32' 00.96"

Canaan, chiseled cross on stone near corner of yard at residence

Latitude 44° 59' 51.85" Longitude 71° 32' 01.67"

Canaan, chiseled cross on west end of a wing wall extending west from dam

Latitude 44° 59' 59.16" Longitude 71° 31' 52.52"

See Appendix For Diagram 69 Page 202

AVERRILL QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

Boundary Reference Monument No. 85. Diagram 69

Canaan, Essex County, Vermont, at west end of the Public Service Company of New Hampshire (part of New England Public Service Company) dam across the Connecticut River, 1,800 feet northeast or upstream from the Canaan, Vermont-West Stewartstown, New Hampshire highway bridge over the Connecticut River, about midway between center line of public road and northwest end of present dam, in line with west end of old part of the original wooden dam, 16 feet northeast of the west end of a concrete retaining wall. Monument 86 bears N. 37° 09' E. true bearing and is 484.8 feet distant from Monument 85. A granite post 6.5 feet long and 14 inches square, set 5 feet in ground. The part above ground is dressed to 12 inches square. Bronze tablet set in top and stamped "Number 85—106 feet S. 48° 12' E." Elevation 1,062.109 feet. State line point is 106 feet S. 48° 12' E. from center of marker

Latitude 44° 59' 59.20" Longitude 71° 31' 52.31"

Vermont-New Hampshire State line point, low water elevation 1,040 feet

Latitude 44° 59' 58.50" Longitude 71° 31' 51.21"

Boundary Reference Monument No. 86. Diagram No. 69

Canaan, Essex County, Vermont-West Stewartstown, Coos County, New Hampshire, at north end of, 215 feet north and 117 feet west of north end of the Maine Central Railroad bridge over the Connecticut River, on property of Mrs. E. Carll, in front of and 90 feet south of the southeast corner of the main part of her residence, in angle formed by the junction of State highway 102 and public gravel road along river, connecting highway bridge with highway 102 and 333 feet southwest of their junction, 24 feet southwest from center of highway 102, in an open grass field. Monument 85 bears S. 37° 09' W. true bearing and is 484.8 feet distant from Monument 86. A granite post 6.5 feet long and 14 inches square, set in concrete base 4 feet underground. Earth mound is built up an additional foot. The part above ground is dressed to 12 inches square. Bronze tablet set in top and stamped "Number 86—266 feet S. 20° 23' E." Elevation 1,073.942 feet. State line point is 266 feet S. 20° 23' E. from center of marker

Latitude 45° 00' 03.02" Longitude 71° 31' 48.23"

Vermont-New Hampshire State line point, low water elevation 1,042 feet

Latitude 45° 00' 00.56" Longitude 71° 31' 46.94"

CANAAN, VT.-WEST STEWARTSTOWN, N. H.

NOTE.—Looking up the Connecticut River from the present open steel truss highway bridge the original bed of the river at time of ordinary low water is in plain view, as practically all the water has been diverted through the penstock to the power house, thence through the tail-race from the power house on the Vermont side.

This river bed is composed of rounded boulders from 1 to 3 feet in diameter. The low water line was determined by personal inspection in 1934, due allowance having been made for piling up of material taken from the tail-race when it was excavated in 1928. The original rocky ledge on which the western half of the lower W. F. Allen dam was built and which must have forced the river eastward is also in plain view and the low water line on west side of the river must have been 170 feet east of top of west bank of river, thence swinging sharply to the west, thence southwest, as shown on diagram No. 69.

The power house of the New Hampshire Public Service Co. is without doubt situated entirely within the State of Vermont.
(See illustration.)

AVERILL QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

Beecher Falls, chiseled across on sidewalk, near cross-roads north of Bridge.

Latitude 45° 00' 31.06" Longitude 71° 30' 28.95"

Boundary Reference Monument No. 87. Diagram No. 70

Beecher Falls, Essex County, Vermont, in northeast corner of intersection of State highway 102 and public road connecting U. S. Route 3 in New Hampshire with Canadian Highway 27, 172 feet north and 67 feet east of north end of steel concrete bridge over Connecticut River, in line of poplar trees, at west side of village park, 44 feet north of southwest corner and 78 feet south of northwest corner of iron fence enclosing park, 5 feet east of west fence, 25 feet east of center of road north into Canada. Vermont-New Hampshire State Line Marker No. 7 bears S. 14° 34' W., true bearing and is 243 feet distant from Monument No. 87. A granite post 6.5 feet long and 14 inches square, set 5 feet in ground. The part above ground is dressed to 12 inches square. Bronze tablet set in top and stamped "Number 87—243 feet S. 14° 34' W." Elevation 1,091.175 feet. State line point is 243 feet S. 14° 34' W. from center of marker. Position of boundary reference Monument No. 87

Latitude 45° 00' 31.52" Longitude 71° 30' 27.81"

Vermont-New Hampshire State Line Marker No. 7. Diagram No. 70

Beecher Falls, Essex County, Vermont-Riverside, Coos County, New Hampshire, on public road connecting U. S. Route 3 and Canadian Highway 27, on east or upstream side of steel-concrete highway bridge over the Connecticut River, in top of east curb, 8 inches above floor of bridge and 64 feet south from northeast corner of bridge. Monument 87 bears N. 14° 34' E, true bearing and is 243 feet distant from Line Marker 7. Bronze State Line Marker stamped "No. 7". Elevation 1,097.886 feet. State line point, low water elevation 1,064 feet under Line Marker No. 7.

Latitude 45° 00' 29.19" Longitude 71° 30' 28.66"

Boundary Reference Monument No. 88. Diagram No. 70

Beecher Falls, Essex County, Vermont, about 500 feet east of cross streets in village on east edge of Beecher Falls grammar school yard, 45 feet south of center of highway 102, 45 feet northeast of northeast corner of school building, at a point about 2 feet west of the east line of the school property, 218 feet nearly west from the junction of Halls Stream and Connecticut River, 230 feet nearly west from center of concrete highway bridge over Halls Stream. Tablet 89 bears N. 82° 49' E, true bearing, and is 227 feet distant from Monument 88. A granite post 6.5 feet long and 14 inches square, set 5 feet in ground. The part above ground is dressed to 12 inches square. Bronze tablet set in top and stamped "Number 88—218 feet N. 87° 49' E." Elevation 1,088.890 feet. State line point is 218 feet N. 87° 49' E. from center of marker

Latitude 45° 00' 31.12" Longitude 71° 30' 21.53"

AVERILL QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

Vermont-New Hampshire State line point, low water elevation 1,066 feet

Latitude 45° 00' 31.20" Longitude 71° 30' 18.50"

Boundary Reference Tablet No. 89. Diagram No. 70

Beecher Falls, Essex County, Vermont, about 735 feet east from cross streets at village park, at highway 102 concrete bridge over Halls Stream at its junction with Connecticut River, in center of south or downstream curb of bridge, 8 inches above bridge floor. Monument 88 bears S. 82° 49' W., true bearing and is 227 feet distant from Tablet 89. Bronze tablet set in concrete curb and stamped "Number 89—22 feet S. 20° 35' W." Elevation 1,080.613 feet. State line point is 22 feet S. 20° 35' W. from center of marker

Latitude 45° 00' 31.40" Longitude 71° 30' 18.40"

Vermont-New Hampshire State line point, low water elevation 1,066 feet

Latitude 45° 00' 31.20" Longitude 71° 30' 18.50"

**U. S. Coast and Geodetic Survey Bench Mark "U 13-1935".
Near Diagram No. 70**

Beecher Falls, Vermont. U-13 is located 40 feet south of the south end of the Maine Central Railroad station; 19 feet east of east rail of main line track. A Standard U. S. C. & G. Survey tablet in top of concrete post 5 inches high and stamped "U 13 1935." Elevation 1,097.032 feet.

NOTE.—Geographic position of this bench mark not determined.

**U. S. and Canada Boundary Monument No. 519. Diagram
No. 70**

Situated on northern edge of Village of Beecher Falls, Vermont, about 100 yards northeast of the new U. S. Custom house.

Station mark: Cement foundation of original monument in center of main highway leading from Beecher Falls into Canada via route 27.

Latitude 45° 00' 48.53" Longitude 71° 30' 21.28"

See Appendix For Diagram 70 Page 204

INDIAN STREAM QUADRANGLE, VERMONT-NEW HAMPSHIRE

Boundary Reference Monument No. 90. Diagram No. 71

Beecher Falls, Essex County, Vermont, 2.3 miles northeast of, along State highway 102, on Canaan, Essex County, Vermont-Pittsburgh, Coos County, New Hampshire, township line, on west edge of highway right of way, 60 feet nearly west of center of highway at town line crossing, 313 feet S. 89° 40' W. from Tablet 91 set in top of rock and which is 1 foot west of the actual northeast corner of the State of Vermont, this point being at low water mark on the west side of the Connecticut River. A 22-inch by 24-inch dressed gray granite monument 4 feet high and set on a 32-inch by 34-inch concrete base which is part of and stands one foot above the underground base of concrete 4.5 feet square and 5 feet deep. In the center of the top of the monument is set a standard bronze reference tablet stamped "Number 90—314 feet N. 89° 40' E." Elevation of cross on reference tablet No. 90 1,162.778 feet. State line point is 314 feet N. 89° 40' E. from center of marker.

Position of boundary reference monument No. 90:

Latitude 45° 00' 49.18" Longitude 71° 28' 01.85"

Granite monument No. 90 is inscribed as follows:
On south side:

SUPREME COURT
OF THE
UNITED STATES
BOUNDARY COMMISSION
1934

Northeast corner of Vermont is a point at low water mark on the west side of the Connecticut River in Lat. 45° 00' 49.20". Long. 71° 27' 57.48", N. 89° 40' E. 314 feet from center of this marker.

On north side:

NEW HAMPSHIRE

On west side:

TOWN : LINE
PITTSBURG : CANAAN
NEW : VERMONT
HAMPSHIRE :

On east side:

TOWN : LINE
CANAAN : PITTSBURG
VERMONT : NEW
: HAMPSHIRE

T. B. M. chiseled square, on east side of unfinished concrete surface of lower foundation of large Boundary Reference Monument No. 90, elevation 1,157.73 feet.

Boundary Reference Tablet No. 91. Diagram No. 71

Beecher Falls, Essex County, Vermont, 2.3 miles northeast of, along highway 102, to Canaan, Essex County, Vermont-Pittsburg, Coos County, New Hampshire town line, thence east along town line 254 feet to tablet, on a flat irregular-shaped rock on west side of Connecticut River. The rock is 2.5 feet across from east to west, 4.1 feet across from north to south.

INDIAN STREAM QUADRANGLE, VERMONT-NEW HAMPSHIRE—
Continued

and is nearly 2 feet thick, rock is at northeast corner of Vermont and appears to be firmly set in the bed of the river and not likely to be moved by floods for many years to come, it is directly opposite or 165 feet west from mouth of Fayreau Brook, town of Clarksville, Coos County, New Hampshire. Tablet 91, set in this rock, is 313 feet N. 89° 40' E. from center of Monument 90. Tablet 91 is 1 foot west of the northeast corner of Vermont and is 1.4 feet south of north point of rock, 2.7 feet north of south point of rock, 1.3 feet east of west edge of rock, and 1.2 feet west of east edge of rock. Tablet 91 is a standard bronze reference tablet countersunk and cemented in top of rock and is stamped "Number 91—1 foot N. 89° 40' E." Elevation 1,102.859 feet. State line point is 1 foot N. 89° 40' E. from center of marker

Latitude 45° 00' 49.20" Longitude 71° 27' 57.49"

Vermont-New Hampshire State line point, northeast corner of Vermont, low water elevation 1,101 feet

Latitude 45° 00' 49.20" Longitude 71° 27' 57.48"

See Appendix For Diagram 71 Page 205

TABLE NO. 2
VERMONT-NEW HAMPSHIRE BOUNDARY LINE COMMISSION
1934-1936

Summary of Boundary Marks, Diagrams, Elevations, Latitudes, Longitudes, Distances & True Bearings

NOTE—Latitudes and longitudes are on the old North American datum. For corrections to reduce these values to the 1927 North American datum see Table No. 1, Page 11. Elevations are referred to mean sea level datum as determined by the 1929 General Adjustment of the first order level net of the United States by the U. S. Coast and Geodetic Survey.

Location.	Mark No.	Diagram No.	Elevation feet above Mean Sea Level		Latitude and Longitude of.		From Mark to State Line Point.	
			Mark.	State Line Point.	Mark.	State Line Point.	Distance Feet.	True Bearing.
Mud Turtle Mon. S. E. Corner Vt. S. W. Corner N. H.	0	1	177.017	177.017	42 43 37.21 72 27 32.08	42 43 37.21 72 27 32.08	....	.....
Vt.-Mass. Witness Mon. Vt.-N. H. Bdy. Ref. Mon. Vernon, Vt., Northfield, Mass. Hinsdale, N. H.	1	1	.....	177.017	42 43 37.43 72 27 39.87	42 43 37.21 72 27 32.08	582	S. 87° 47' E.
B. & M. R. R. Bridge Vernon, Vt. Hinsdale, N. H.	2 Ref. Tablet.	2	244.804	177	42 44 10.80 72 27 50.98	42 44 11.73 72 27 49.69	135	N. 45° 33' E.
B. & M. R. R. Bridge Vernon, Vt. Hinsdale, N. H.	3	2	257.978	177	42 44 07.17 72 27 56.01	42 44 11.73 72 27 49.69	660	N. 45° 33' E.
Vernon Dam. Vernon, Vt. Hinsdale, N. H.	4	3	227.568	180	42 46 18.35 72 30 56.91	42 46 17.80 72 30 53.64	250	S. 77° 12' E.

Vernon Dam. Vernon, Vt. Hinsdale, N. H.	1 Line Marker Tablet	3	232.103	180	42 46 17.80 72 30 53.64	42 46 17.80 72 30 53.64	...	.....
Opposite Island No. 100, 3.4 Mi. S. of Brattleboro. Vernon, Vt. Hinsdale, N. H.	4-A.	4	281.188	190	42 48 25.87 72 32 34.81	42 48 27.41 72 32 31.85	270	N. 54° 47' E.
Opposite Island No. 99, 3.2 Mi. S. of Brattleboro. Vernon, Vt. Hinsdale, N. H.	4-B.	4	272.118	190	42 48 35.14 72 32 39.54	42 48 36.46 72 32 32.80	520	N. 75° 06' E.
B. & M. R. R. Bridge 1 mi. S. of Brattleboro. Brattleboro, Vt. Hinsdale, N. H.	5	5	227.540	200	42 50 22.64 72 33 00.76	42 50 18.57 72 32 50.39	876	S. 61° 55' E.
B. & M. R. R. Bridge 1 mi. S. of Brattleboro. Brattleboro, Vt. Hinsdale, N. H.	2 Line Marker Tablet.	5	232.070	200	42 50 18.57 72 32 50.39	42 50 18.57 72 32 50.39	...	.....
Near Morningside Rd. at S. edge Brattleboro. Brattleboro, Vt. Hinsdale N. H.	6	6	236.424	203	42 50 42.93 72 33 11.00	42 50 43.77 72 33 09.54	138	N. 52° 00' E.
Brattleboro Hwy. Br. Brattleboro, Vt. Hinsdale, N. H.	7	7	241.582	205	42 51 04.77 72 33 25.94	42 51 06.00 72 33 23.08	247	N. 59° 36' E.
Highway Suspension Br. 2 Mi. N. of Brattleboro. Brattleboro, Vt. Chesterfield, N. H.	8	8	247.711	206	42 53 01.76 72 33 11.38	42 53 01.85 72 33 10.33	79	N. 83° 01' E.

TABLE NO. 2—Continued
 VERMONT-NEW HAMPSHIRE BOUNDARY LINE COMMISSION
 1934-1936

Summary of Boundary Marks, Diagrams, Elevations, Latitudes, Longitudes, Distances & True Bearings

NOTE—Latitudes and longitudes are on the old North American datum. For corrections to reduce these values to the 1927 North American datum see Table No. 1, Page 11. Elevations are referred to mean sea level datum as determined by the 1929 General Adjustment of the first order level net of the United States by the U. S. Coast and Geodetic Survey.

Location.	Mark No.	Diagram No.	Elevation feet above Mean Sea Level		Latitude and Longitude of.		From Mark to State Line Point.	
			Mark.	State Line Point.	Mark.	State Line Point.	Distance Feet.	True Bearing.
Brattleboro-Dummerston Town Line, Vt. Chesterfield, N. H.	8-A.	9	252.817	207	42 53 46.27 72 32 01.18	42 53 46.18 72 31 57.82	250	S. 87° 56' E.
Highway Bridge. Westminster, Vt. Walpole, N. H.	9	10	246.275	219	43 05 05.76 72 26 11.68	43 05 04.35 72 26 04.25	570	S. 75° 27' E.
Westminster-Rockingham Town Line, Vt. Walpole, N. H. at S. edge Bellows Falls, Vt.	10	11	257.947	225	43 07 30.56 72 26 19.08	43 07 31.05 72 26 18.33	75	N. 48° 06' E.
At Vilas Memorial Hwy. Br., Bellows Falls, Vt. Rockingham, Vt. Walpole, N. H.	11	12	301.449	227	43 08 07.91 72 26 29.13	43 08 07.66 72 26 27.60	116	S. 77° 27' E.
On B. & M. R. R. Stone Arch. Br. at Bellows Falls, Vt. Rockingham, Vt. Walpole, N. H.	3 Line Marker Tablet.	12	299.273	227	43 08 09.04 72 26 27.41	43 08 09.04 72 26 27.41

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B. & M. R. R. Steel Truss Br. below dam at Bellows Falls, Vt. Rockingham, Vt. Walpole, N. H.	12 Ref. Tablet.	13	300.291	254	43 08 13.83 72 26 47.57	43 08 14.09 72 26 47.76	30	N. 27° 38' W.
On New England Power Co. Dam at Bellows Falls, Vt. Rockingham, Vt. Walpole, N. H.	13 Ref. Tablet.	13	300.630	254	43 08 13.71 72 26 48.53	43 08 13.97 72 26 48.72	30	N. 27° 38' W.
On Steel Arch Highway Br. at Bellows Falls, Vt. Rockingham, Vt. Walpole, N. H.	14 Ref. Tablet.	13	325.686	265	43 08 13.66 72 26 57.79	43 08 15.01 72 26 57.06	147	N. 21° 36' E.
At Steel Arch Highway Br. at Bellows Falls, Vt. Rockingham, Vt. Walpole, N. H.	15	13	332.101	265	43 08 12.22 72 26 58.69	43 08 15.01 72 26 57.06	307	N. 23° 16' E.
At Riverside Sta. Rutland R. R., 1.9 Mi. N. of Bellows Falls, Vt. Rockingham, Vt. Charleston, N. H.	15-A.	14	322.819	276	43 09 43.56 72 27 18.32	43 09 42.43 72 27 08.14	763	S. 81° 23' E.
At Cheshire Toll Bridge, Springfield, Vt. Charleston, N. H.	16	15	318.948	280	43 15 44.68 72 25 43.55	43 15 39.54 72 25 40.79	559	S. 21° 23' E.
At Ascutney, Vt.-Claremont, N. H., Highway Br. Weathersfield, Vt. Claremont, N. H.	17	16	350.125	287	43 24 13.40 72 24 10.24	43 24 13.09 72 24 05.68	338	S. 84° 42' E.

TABLE NO. 2—Continued
 VERMONT-NEW HAMPSHIRE BOUNDARY LINE COMMISSION
 1934-1936

Summary of Boundary Marks, Diagrams, Elevations, Latitudes, Longitudes, Distances & True Bearings

NOTE—Latitudes and longitudes are on the old North American datum. For corrections to reduce these values to the 1927 North American datum see Table No. 1, Page 11. Elevations are referred to mean sea level datum as determined by the 1929 General Adjustment of the first order level net of the United States by the U. S. Coast and Geodetic Survey.

Location.	Mark No.	Diagram No.	Elevation feet above Mean Sea Level		Latitude and Longitude of.		From Mark to State Line Point.	
			Mark.	State Line Point.	Mark.	State Line Point.	Distance Feet.	True Bearing.
At B. & M. R. R. Bridge at Windsor, Vt. Windsor, Vt. Cornish, N. H.	18	17	352.958	298	43 28 20.66 72 23 25.20	43 28 14.00 72 23 22.49	704	S. 16° 30' E.
At Cornish Toll Bridge Windsor, Vt. Cornish, N. H.	19	18	324.195	298	43 28 27.05 72 23 08.25	43 28 26.27 72 23 06.35	161	S. 60° 43' E.
At Sumner Falls, Evarts Station Vt. Central R. R. Hartland, Vt. Plainfield, N. H.	20	19	343.953	315	43 34 01.46 72 22 51.30	43 34 01.53 72 22 49.10	142	N. 87° 00' E.
At Sumner Falls, Evarts Station Vt. Central R. R. Hartland, Vt. Plainfield, N. H.	21 Ref. Tablet.	19		314	43 33 56.21 72 22 51.81	43 33 56.11 72 22 50.21	118	S. 85° 15' E.
At B. & M. R. R. Bridge, White River Junction. Hartford, Vt. Lebanon, N. H.	22	20	355.974	326	43 38 48.17 72 18 53.81	43 38 49.76 72 18 52.63	182	N. 28° 18' E.
At Lyman, Hwy. Bridge, White River Junction, Vt. Hartford, Vt. Lebanon, N. H.	23	21	356.210	326	43 39 03.55 72 18 56.42	43 39 03.25 72 18 55.33	86	S. 69° 26' E.
At a point 1000 feet south of Wilder Dam. Hartford, Vt. Lebanon, N. H.	24	22	395.610	331	43 40 25.96 72 18 15.03	43 40 24.85 72 18 11.81	280	S. 66° 30' E.
At Wilder, I. P. Co. Dam. Hartford, Vt. Lebanon, N. H.	25	22	408.143	334	43 40 35.97 72 18 14.92	43 40 35.64 72 18 11.71	238	S. 81° 57' E.
At Wilder, Highway Br. Hartford, Vt. Lebanon, N. H.	26	22	404.634	352	43 40 42.26 72 18 14.24	43 40 41.99 72 18 11.76	184	S. 81° 34' E.
At Ledyard Bridge. Norwich, Vt. Hanover, N. H.	27	23	394.825	364	43 42 14.50 72 18 03.77	43 42 13.99 72 18 01.45	178	S. 73° 00' E.
Point 1000 feet N. of the Ledyard Bridge. Norwich, Vt. Hanover, N. H.	28	24	386.584	364	43 42 24.49 72 18 02.18	43 42 23.61 72 18 00.05	180	S. 60° 15' E.
At the Gilbert Bridge. Thetford, Vt. Lyme, N. H.	29	25	398.341	367	43 48 42.80 72 11 05.88	43 48 43.43 72 11 03.25	203	N. 71° 35' E.

TABLE NO. 2—Continued

VERMONT-NEW HAMPSHIRE BOUNDARY LINE COMMISSION

1934-1936

Summary of Boundary Marks, Diagrams, Elevations, Latitudes, Longitudes, Distances & True Bearings

NOTE—Latitudes and longitudes are on the old North American datum. For corrections to reduce these values to the 1927 North American datum see Table No. 1, Page 11. Elevations are referred to mean sea level datum as determined by the 1929 General Adjustment of the first order level net of the United States by the U. S. Coast and Geodetic Survey.

Location.	Mark No.	Diagram No.	Elevation feet above Mean Sea Level		Latitude and Longitude of.		From Mark to State Line Point.	
			Mark.	State Line Point.	Mark.	State Line Point.	Distance Feet.	True Bearing.
At the Lyme-Northboro Highway Bridge. Thetford, Vt. Lyme, N. H.	30	26	398.950	368	43 50 32.63 72 11 04.01	43 50 32.46 72 11 01.13	212	S. 85° 15' E.
At the Orford Highway Bridge. Fairlee, Vt. Orford, N. H.	31	27	417.698	369	43 54 28.42 72 08 26.16	43 54 27.04 72 08 25.15	158	S. 27° 52' E.
At the Piermont Highway Bridge. Bradford, Vt. Piermont, N. H.	32	28	423.364	372	43 58 40.77 72 06 50.03	43 58 41.02 72 06 47.11	215	N. 83° 08' E.
At the Bedell Highway Bridge. Newbury, Vt. Haverhill, N. H.	33	29	418.522	374	44 02 45.97 72 04 32.25	44 02 44.60 72 04 30.54	187	S. 41° 57' E.

At the Keyes Steel Highway Bridge. Newbury, Vt. Haverhill, N. H.	34	30	405.767	376	44 04 02.18 72 03 09.04	44 04 00.41 72 03 06.39	264	S. 47° 07' E.
Point 100 ft. west of Howard Island. Newbury, Vt. Haverhill, N. H.	35	31	407.212	393	44 07 27.89 72 02 48.00	44 07 27.72 72 02 47.73	26	S. 48° 50' E.
Wells River, Vt. at the Steel Highway Br. to Woodsville, N. H. Newbury, Vt. Haverhill, N. H.	36	32	440.867	397	44 09 15.95 72 02 32.69	44 09 15.82 72 02 30.60	153	S. 84° 55' E.
B. & M.R.R.Br. Wells River, Vt. to Woodsville, N. H. Newbury, Vt. Haverhill, N. H.	37	32	433.761	397	44 09 17.20 72 02 30.89	44 09 17.20 72 02 29.87	75	S. 89° 48' E.
At the Point of the "Narrows". Ryegate, Vt. Bath, N. H.	38 Ref. Tablet.	33	430.803	400	44 09 42.26 72 02 34.33	44 09 42.37 72 02 34.04	24	N. 61° 49' E.
At Point 834 feet S. of the Ryegate Paper Co. Dam. Ryegate, Vt. Bath, N. H.	38-A.	34	429.496	402	44 12 21.05 72 03 32.54	44 12 20.98 72 03 29.34	233	S. 88° 16' E.
At the Ryegate Paper Co. Dam at East Ryegate, Vt. Ryegate, Vt. Bath, N. H.	39 Ref. Tablet.	34	434.646	405	44 12 29.87 72 03 32.17	44 12 29.98 72 03 31.73	34	N. 70° 15' E.

TABLE NO. 2—Continued

VERMONT-NEW HAMPSHIRE BOUNDARY LINE COMMISSION

1934-1936

Summary of Boundary Marks, Diagrams, Elevations, Latitudes, Longitudes, Distances & True Bearings

NOTE—Latitudes and longitudes are on the old North American datum. For corrections to reduce these values to the 1927 North American datum see Table No. 1, Page 12. Elevations are referred to mean sea level datum as determined by the 1929 General Adjustment of the first order level net of the United States by the U. S. Coast and Geodetic Survey.

Location.	Mark No.	Diagram No.	Elevation feet above Mean Sea Level		Latitude and Longitude of.		From Mark to State Line Point.	
			Mark.	State Line Point.	Mark.	State Line Point.	Distance Feet.	True Bearing.
At Dam at McIndoes Falls, Barnet, Vt. Monroe, N. H.	40	35	476.977	422	44 15 36.17 72 03 39.86	44 15 36.54 72 03 37.25	193	N. 78° 56' E.
At Steel Highway Br. at McIndoes Falls. Barnet, Vt. Monroe, N. H.	41	35	465.935	433	44 15 43.85 72 03 43.41	44 15 42.40 72 03 35.56	590	S. 75° 36' E.
At Old Highway Br. 1 mile below Barnet, Vt. Barnet, Vt. Monroe, N. H.	42	36	472.003	438	44 17 15.27 72 03 27.39	44 17 14.61 72 03 26.92	75	S. 27° 26' E.
At Mouth of the Passumpsic River. Barnet, Vt. Monroe, N. H.	43 Ref. Tablet.	37	528.404	457	44 19 16.67 72 01 55.29	44 19 15.63 72 01 53.81	150	S. 45° 45' E.
At Comerford Dam, 15 Mi. Falls Lower Dev'mt. Barnet, Vt. Monroe, N. H.	44 Ref. Tablet.	38	698.615	480	44 19 47.58 72 00 00.82	44 19 32.20 72 00 04.49	1580	S. 9° 43' W.
At Comerford Dam. Barnet, Vt.—Monroe, N. H.	Line Marker 4	38	662.451	480	44 19 32.20 72 00 04.49	44 19 32.20 72 00 04.49	...	.....
At the New Waterford—Little- ton Highway Br. Waterford, Vt. Littleton, N. H.	45	39	682.505	633	44 20 39.25 71 53 22.55	44 20 34.80 71 53 21.84	454	S. 6° 34' E.
On New Waterford-Littleton Highway Br. Waterford, Vt. Littleton, N. H.	5 Line Marker Tablet.	39	678.882	633	44 20 34.80 71 53 21.84	44 20 34.80 71 53 21.84	...	.....
At site of Upper Development 15 Mi. Falls. Waterford, Vt. Littleton, N. H.	46	40	759.966	638	44 20 18.95 71 52 14.26	44 20 12.82 71 52 22.58	867	S. 44° 15' W.
At Site of Upper Development 15 Mi. Falls. Waterford, Vt. Littleton, N. H.	47 Ref. Tablet.	40	800.467	638	44 20 23.21 71 52 15.51	44 20 12.82 71 52 22.58	1171	S. 26° 01' W.
At Upper Waterford Old High- way Bridge. Waterford, Vt. Littleton, N. H.	48	41	709.426	650	44 20 30.69 71 51 07.46	44 20 28.30 71 51 05.41	284	S. 31° 42' E.
At Will Dodge Farm 1.5 Mi. N. E. of Waterford, Vt. Concord, Vt. Littleton, N. H.	49	42	716.384	666	44 21 07.65 71 49 45.08	44 21 05.59 71 49 42.73	270	S. 39° 16' E.

TABLE NO. 2—Continued
 VERMONT-NEW HAMPSHIRE BOUNDARY LINE COMMISSION
 1934-1936

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Location.	Mark No.	Diagram No.	Elevation feet above Mean Sea Level		Latitude and Longitude of.		From Mark to State Line Point.	
			Mark.	State Line Point.	Mark.	State Line Point.	Distance Feet.	True Bearing.
At New Steel Highway Bridge at Gilman, Vt. Lunenburg, Vt. Dalton, N. H.	50	43	864.906	807	44 24 44.24 71 43 22.66	44 24 41.81 71 43 23.11	248	S. 7° 33' W.
At Gilman Paper Co. Dam, Gilman, Vt. Lunenburg, Vt. Dalton, N. H.	51	44	865.535	807	44 24 40.07 71 43 02.28	44 24 37.67 71 43 03.24	253	S. 16° 06' W.
At Gilman Paper Co. Dam, Gilman, Vt. Lunenburg, Vt. Dalton, N. H.	6 Line Marker Tablet.	44	.....	807	44 24 37.67 71 43 03.24	44 24 37.67 71 43 03.24	...	.....
At M. C. R. R. Bridge, at South Lunenburg, Vt. Lunenburg, Vt. Dalton, N. H.	52	45	853.358	828	44 25 43.31 71 40 50.50	44 25 38.84 71 40 39.34	928	S. 60° 48' E.

At the South Lancaster Highway Bridge. Lunenburg, Vt. Lancaster, N. H.	53	46	854.132	829	44 27 38.23 71 39 14.67	44 27 37.51 71 39 13.02	140	S. 58° 36' E.
At the N. Lancaster Highway Br., Lancaster, N. H. Guildhall, Vt. Lancaster, N. H.	54	47	853.981	830	44 29 45.63 71 35 48.83	44 29 45.91 71 35 42.90	430	N. 86° 11' E.
The Old Ferry Site and Cut-off No. 5. 1 Mi. N. of Lancaster, N. H. Guildhall, Vt. Lancaster, N. H.	55	48	856.249	831	44 30 25.59 71 35 19.26	44 30 24.97 71 35 18.84	70	S. 25° 57' E.
At Maine Central R. R. Bridge, 2½ Mi. above Lancaster, N. H. Guildhall, Vt. Lancaster, N. H.	56	49	850.335	832	44 31 38.06 71 34 55.87	44 31 33.35 71 34 48.79	700	S. 47° 06' E.
A point 500 feet S. of Wyo. Paper Co. Dam, Guildhall, Vt. Guildhall, Vt. Northumberland, N. H.	57	50	869.025	833	44 33 52.30 71 33 43.25	44 33 48.33 71 33 43.82	404	S. 5° 49' W.
At Wyoming Paper Co. Dam at Guildhall, Vt. Guildhall, Vt. Northumberland, N. H.	58	50	862.563	834	44 33 52.18 71 33 37.40	44 33 50.44 71 33 37.05	178	S. 8° 08' E.
At Highway Bridge, Guildhall, Vt. Guildhall, Vt. Northumberland, N. H.	59	50	868.284	836	44 33 53.42 71 33 37.75	44 33 52.22 71 33 35.08	228	S. 57° 43' E.

TABLE NO. 2—Continued
VERMONT-NEW HAMPSHIRE BOUNDARY LINE COMMISSION
1934-1936

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Location.	Mark No.	Diagram No.	Elevation feet above Mean Sea Level		Latitude and Longitude of.		From Mark to State Line Point.	
			Mark.	State Line Point.	Mark.	State Line Point.	Distance Feet.	True Bearing.
At Cut-off No. 4, 1.1 Mi. N. of Guildhall-Maidstone Town Line. Maidstone, Vt. Northumberland, N. H.	60	51	892.729	841	44 35 06.53 71 33 04.76	44 35 04.67 71 33 06.47	226	S. 32° 56' W.
Opposite Mouth of the Upper Ammonoosuc River. Maidstone, Vt. Northumberland, N. H.	61	52	859.927	843	44 35 14.75 71 32 19.63	44 35 18.07 71 32 08.09	900	N. 68° 05' E.
Point on the Tillotson Farm (M 17 on Map) 1.8 Mi. N. E. Guildhall, Vt. Maidstone, Vt. Northumberland, N. H.	62	53	889.882	844	44 35 31.94 71 33 04.53	44 35 48.73 71 32 48.15	2072	N. 34° 53' E.
At the Stratford Hollow Highway Bridge. Maidstone, Vt. Stratford, N. H.	63	54	863.674	847	44 39 06.46 71 33 53.04	44 39 07.13 71 33 48.36	345	N. 78° 41' E.

At Maine Central R. R. Bridge, 2½ Mi. above Maidstone R. R. Sta. Brunswick, Vt. Stratford, N. H.	64	55	866.514	852	44 40 32.87 71 35 37.09	44 40 34.89 71 35 37.57	207	N. 9° 36' W.
Point opposite Masons Island, ½ Mi. N. of M. C. R. R. Br. Brunswick, Vt. Stratford, N. H.	65	56	912.220	860 (1936 old dry channel) 854 (1936 channel)	44 41 15.26 71 35 59.94	44 41 14.91 71 35 58.00	145	S. 75° 53' E.
Point opposite Hinmans Islands, Nos. 17 and 18. Brunswick, Vt. Stratford, N. H.	66	57	977.367	863	44 43 02.71 71 36 59.38	44 43 04.32 71 36 54.94	360	N. 63° 04' E.
At Highway Bridge, Bloomfield, Vt. Bloomfield, Vt. Stratford, N. H.	67	58	904.483	886	44 45 09.90 71 37 57.25	44 45 09.37 71 37 56.49	77	S. 45° 45' E.
At the Grand Trunk R. R. Bridge, Bloomfield, Vt. Bloomfield, Vt. Stratford, N. H.	68	58	915.618	886	44 45 11.42 71 37 58.63	44 45 09.74 71 37 56.04	253	S. 47° 35' E.
Opposite Ed Daleys Island No. 12, ¾ Mi. N. E. of Bloomfield, Vt. Bloomfield, Vt. Stratford, N. H.	69	59	960.956	892	44 45 26.60 71 37 12.04	44 45 25.17 71 37 10.20	197	S. 42° 29' E.
Opposite Ed Daleys Island No. 12 ¾ Mi. N. E. of Bloomfield, Vt. Bloomfield, Vt. Stratford, N. H.	70 Ref. Tablet.	59	895.295	892	44 45 25.26 71 37 10.31	44 45 25.17 71 37 10.20	12	S. 42° 29' E.

TABLE NO. 2--Continued
VERMONT-NEW HAMPSHIRE BOUNDARY LINE COMMISSION
1934-1936

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Location.	Mark No.	Diagram No.	Elevation feet above Mean Sea Level		Latitude and Longitude of		From Mark to State Line Point	
			Mark.	State Line Point.	Mark.	State Line Point.	Distance Feet.	True Bearing.
At Lyman Falls Dam. Bloomfield, Vt. Columbia, N. H.	71	60	966.267	936	44 46 43.60 71 35 51.43	44 46 38.92 71 35 47.10	568	S. 33° 21' E.
At Bloomfield Cemetery, 5000 ft. N. of Lyman Falls Dam. Bloomfield, Vt. Columbia, N. H.	72	61	1034.162	953	44 47 11.81 71 34 51.49	44 47 09.66 71 34 45.25	500	S. 64° 12' E.
At the Columbia Highway Bridge. Lemington, Vt. Columbia, N. H.	73	62	1007.601	982	44 51 13.29 71 33 10.35	44 51 11.83 71 33 08.22	213	S. 46° 08' E.
Opposite Daleys Island, 2000 ft. N. of the Columbia Bridge. Lemington, Vt. Columbia, N. H.	74	62	1007.847	984	44 51 26.62 71 32 59.72	44 51 29.63 71 32 52.42	608	N. 59° 53' E.

Opposite Cut-off No. 3, 1 Mi. S. of Colebrook Br. Lemington, Vt. Colebrook, N. H.	75	63	1017.710	992	44 53 07.87 71 31 10.09	44 53 02.42 71 30 44.78	1904	S. 73° 09' E.
At the Colebrook Hwy. Bridge, ½ Mi. W. of Colebrook, N. H. Lemington, Vt. Colebrook, N. H.	76	64	1017.032	996	44 53 56.34 71 30 32.40	44 53 56.14 71 30 30.39	146	S. 81° 59' E.
At Cut-off ½ Mi. S. W. of Terminus of the Colebrook-Stewartstown Town Line, N. H. Canaan, Vt. Colebrook, N. H.	77	65	1023.098	998	44 56 22.56 71 31 26.96	44 56 26.65 71 31 22.08	543	N. 40° 18' E.
Opposite the Terminus of the Colebrook-Stewartstown Town Line, N. H. Canaan, Vt. Colebrook-Stewartstown, N. H.	78	65	1021.586	998	44 56 37.79 71 31 32.45	44 56 34.24 71 30 57.02	2574	S. 81° 57' E.
Opposite Cut-off No. 2, 2.6 Mi. S. of Canaan, Vt. Canaan, Vt. Stewartstown, N. H.	79	66	1052.007	1004	44 57 55.45 71 31 32.17	44 58 03.73 71 31 06.55	2024	N. 65° 31' E.
Opposite Cut-off No. 1, 2.4 Mi. S. of Canaan, Vt. Canaan, Vt. Stewartstown, N. H.	80	66	1055.501	1004	44 58 05.52 71 31 30.99	44 58 08.36 71 31 20.50	807	N. 69° 06' E.
At Bend in River (C-46) near Vt. State Fish Hatchery, 1 Mi. S. of Canaan, Vt. Canaan, Vt. Stewartstown, N. H.	81	67	1072.246	1006	44 58 53.19 71 32 31.88	44 59 01.54 71 32 13.95	1542	N. 56° 42' E.

TABLE NO. 2—Continued
VERMONT-NEW HAMPSHIRE BOUNDARY LINE COMMISSION

1934-1936

Summary of Boundary Marks, Diagrams, Elevations, Latitudes, Longitudes, Distances & True Bearings

NOTE—Latitudes and longitudes are on the old North American datum. For corrections to reduce these values to the 1927 North American datum see Table No. 1, Page 12. Elevations are referred to mean sea level datum as determined by the 1929 General Adjustment of the first order level net of the United States by the U. S. Coast and Geodetic Survey.

Location.	Mark No.	Diagram No.	Elevation feet above Mean Sea Level		Latitude and Longitude of		From Mark to State Line Point	
			Mark.	State Line Point.	Mark.	State Line Point.	Distance Feet.	True Bearing.
Opposite Island No. 7, 1/2 Mi. S. of Canaan, Vt. Canaan, Vt. Stewartstown, N. H.	82	68	1033.961	1010	44 59 23.78 71 32 21.80	44 59 23.05 71 32 20.58	115	S. 49° 53' E.
At West End of Highway Bridge at Canaan, Vt. Canaan, Vt. Stewartstown, N. H.	83	69	1049.205	1017	44 59 46.31 71 32 09.50	44 59 45.42 71 32 07.08	196	S. 62° 30' E.
At West End of Old W. F. Allen Co. Dam at Canaan, Vt. Canaan, Vt. Stewartstown, N. H.	84	69	1047.547	1023	44 59 49.85 71 32 02.34	44 59 48.45 71 32 00.96	173	S. 34° 55' E.
At West End of the Public Service Co. of New Hampshire Dam at Canaan, Vt. Canaan, Vt. Stewartstown, N. H.	85	69	1062.109	1040	44 59 59.20 71 31 52.31	44 59 58.50 71 31 51.21	106	S. 48° 12' E.
At Maine Central R. R. Bridge, at Canaan, Vt. Canaan, Vt. Stewartstown, N. H.	86	69	1073.942	1042	45 00 03.02 71 31 48.23	45 00 00.56 71 31 46.94	266	S. 20° 23' E.
At Steel-Concrete Hwy. Bridge at Beecher Falls, Vt. Canaan, Vt. Stewartstown, N. H.	87	70	1091.175	1064	45 00 31.52 71 30 27.81	45 00 29.19 71 30 28.66	243	S. 14° 34' W.
On Steel-Concrete Hwy. Bridge at Beecher Falls, Vt. Canaan, Vt. Stewartstown, N. H.	7 Line Marker Tablet.	70	1097.886	1064	45 00 29.19 71 30 28.66	45 00 29.19 71 30 28.66	...	.....
At the Mouth of Halls Stream, Beecher Falls, Vt. Canaan, Vt. Stewartstown, N. H.	88	70	1088.890	1066	45 00 31.12 71 30 21.53	45 00 31.20 71 30 18.50	218	N. 87° 49' E.
On Concrete Hwy. Br. over Halls Stream, at Beecher Falls, Vt. Canaan, Vt. Stewartstown, N. H.	89 Ref. Tablet.	70	1080.613	1066	45 00 31.40 71 30 18.40	45 00 31.20 71 30 18.50	22	S. 20° 35' W.
On Canaan, Vt.-Pittsburg, N.H. Town Line near N. E. Corner of Vt. Canaan, Vt. Pittsburg, N. H.	90 Large Mon.	71	1162.778	1101	45 00 49.18 71 28 01.85	45 00 49.20 71 27 57.48	314	N. 89° 40' E.
Near the N. E. Corner of Vt. on W. Side Conn. Riv. 1 foot W. of N. E. Corner, Vt. Canaan, Vt. Pittsburg, N. H.	91 Ref. Tablet on rock.	71	1102.859	1101	45 00 49.20 71 27 57.49	45 00 49.20 71 27 57.48	1	N. 89° 40' E.

A statement of the time employed and the expense incurred in the performance of the work will be the subject of a later report.

In compliance with the terms of the decree, a copy of this report has been delivered to the Clerk of the Court and to the Attorneys General of the two states. Fifty additional copies have been filed with the Clerk of the Court for use of such interested parties as may apply for them.

All the terms of the decree of January 8, 1934, and of the supplemental decree of May 18, 1936, have been complied with, without prejudice or bias, by definitely locating and marking the boundary line on the ground at points named, and at all dams and bridges.

All ferries across the river having been abandoned, no attempt was made to monument them.

I hereby certify that diagrams numbered 1 to 71, inclusive, together with descriptions and geographic positions of boundary line reference monuments and state line points and markers, published with this report dated November 16, 1936, correctly define the boundary line between the State of Vermont and State of New Hampshire, from the apex of the granite monument at the southeast corner of Vermont and the southwest corner of New Hampshire, northerly along the western side of the Connecticut River, at low water mark as the same is or would be if unaffected by improvements on the river, to the southerly line of the Town of Pittsburg, New Hampshire.

Respectfully submitted.

SAMUEL S. GANNETT,
Special Commissioner.

WASHINGTON, D. C., November 16, 1936.

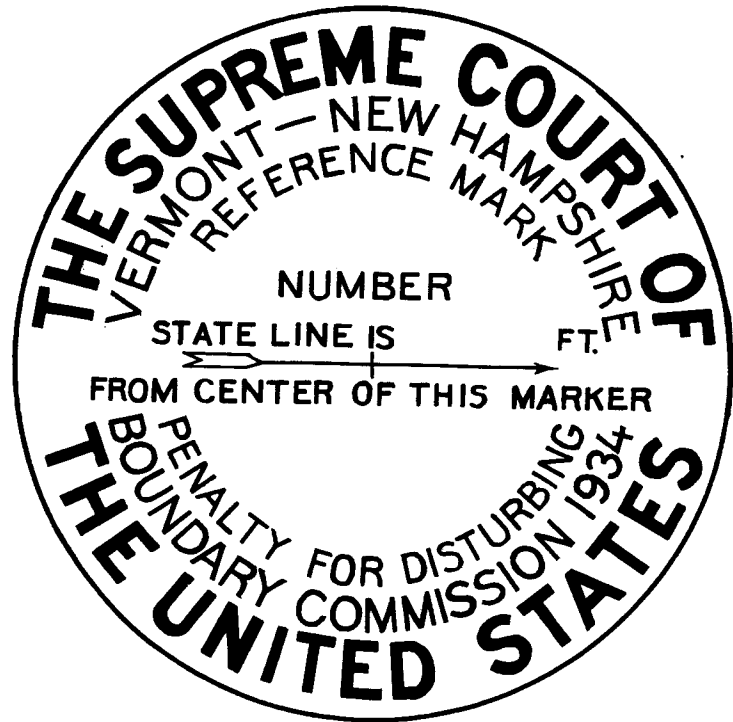
(8344-C)

INDEX.

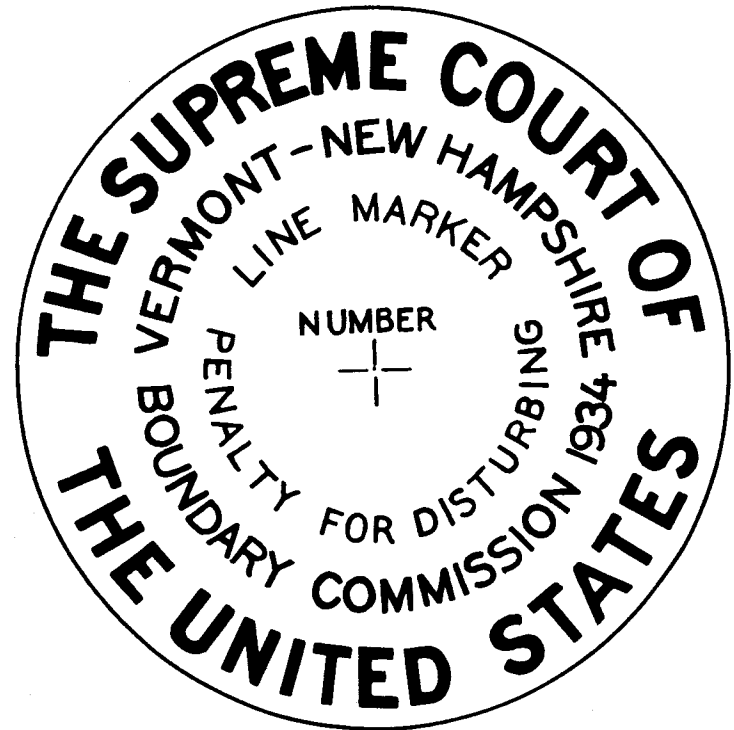
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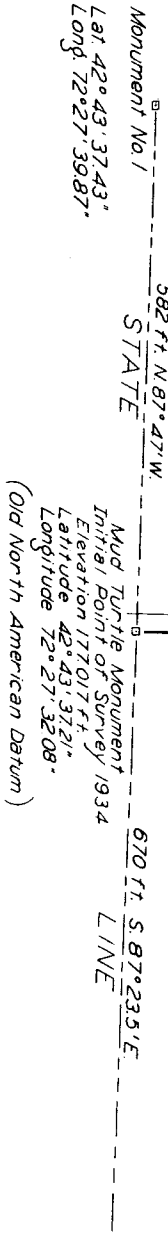
Bronze Tablet Imbedded in Top of Each Boundary Reference Monument.



Bronze Tablet Used as a State Line Marker.

SHOWING LOCATION OF MUD TURTLE MONUMENT AND STATE LINE,
AT SOUTHEAST CORNER OF VERMONT AND AT SOUTHWEST CORNER
OF NEW HAMPSHIRE; ALSO BOUNDARY REFERENCE MONUMENT NO. 1
VERNON, VT. - HINSDALE, NH. - NORTHFIELD, MASS.

DIAGRAM NO. 1



FEET

MASSACHUSETTS

Shore Line 1934.
STATE LINE Original Shore Line

CONNECTICUT

RIVER

VERMONT

NEW HAMPSHIRE

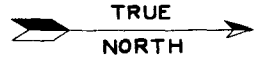
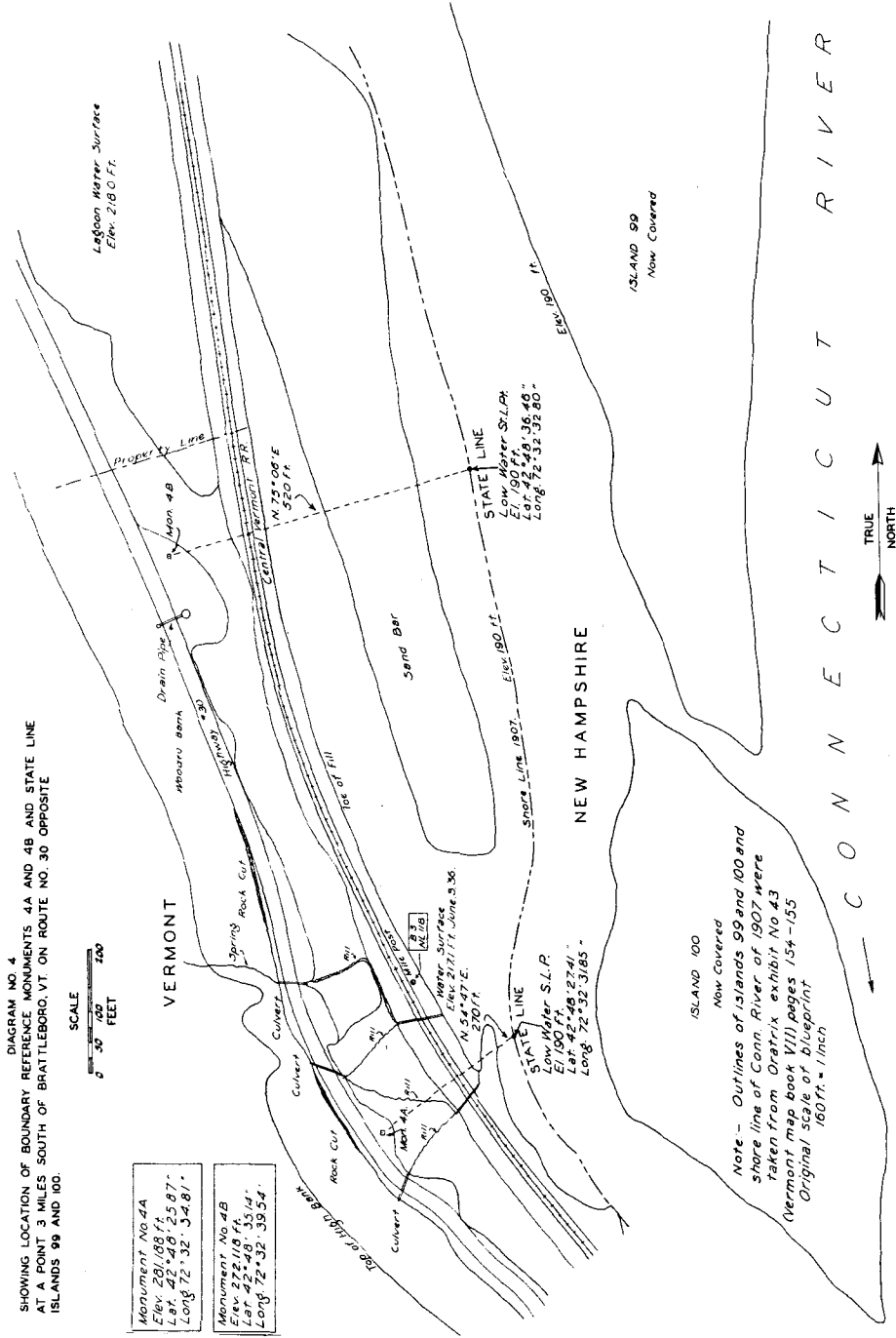


DIAGRAM NO. 4
SHOWING LOCATION OF BOUNDARY REFERENCE MONUMENTS 4A AND 4B AND STATE LINE
AT A POINT 3 MILES SOUTH OF BRATTLEBORO, VT. ON ROUTE NO. 30 OPPOSITE
ISLANDS 99 AND 100.

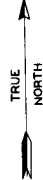


Monument No. 4A
Elev. 281.08 ft.
Lat. 42° 48' 25.87"
Long. 72° 32' 34.81"

Monument No. 4B
Elev. 272.10 ft.
Lat. 42° 48' 55.14"
Long. 72° 32' 39.54"



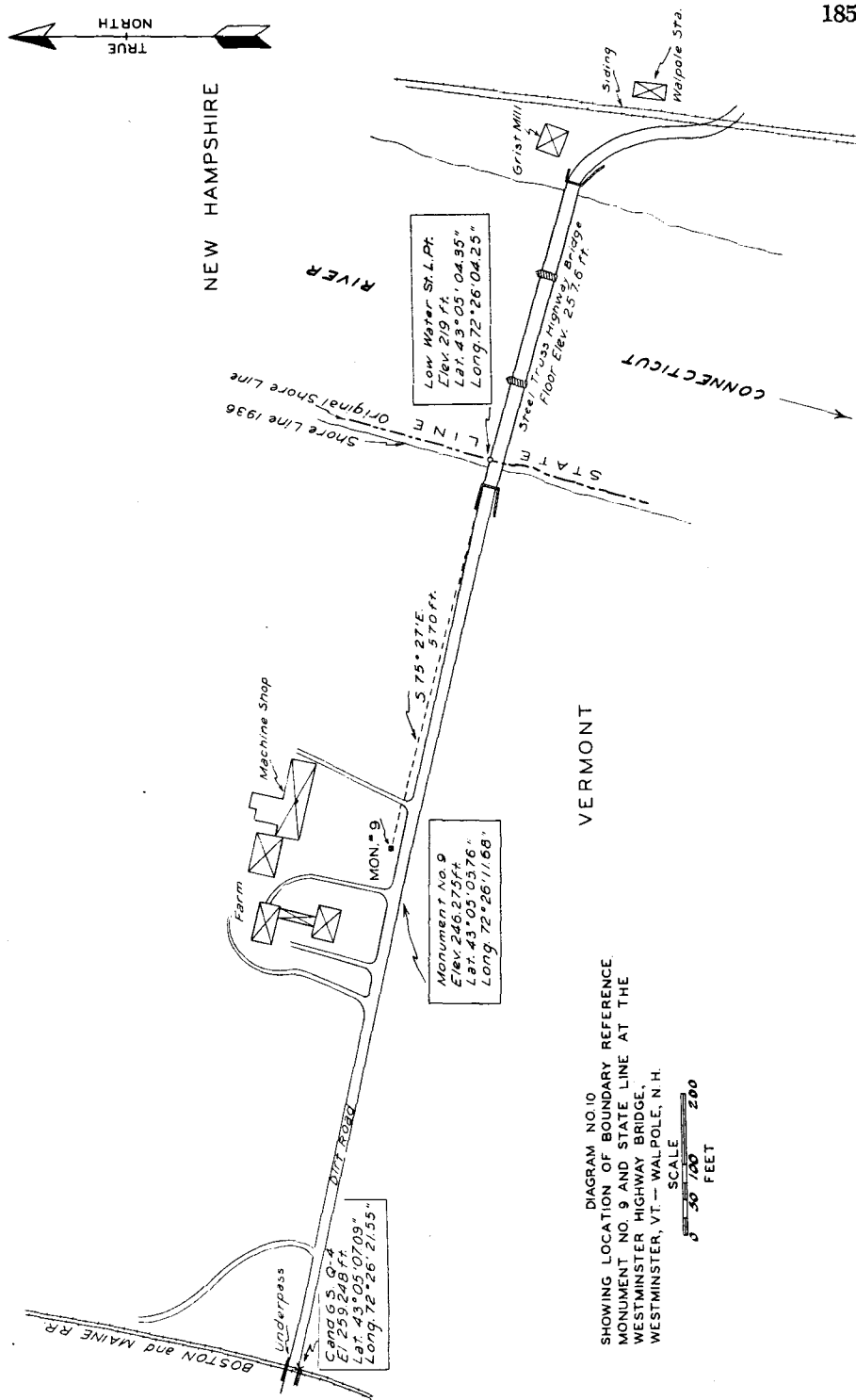
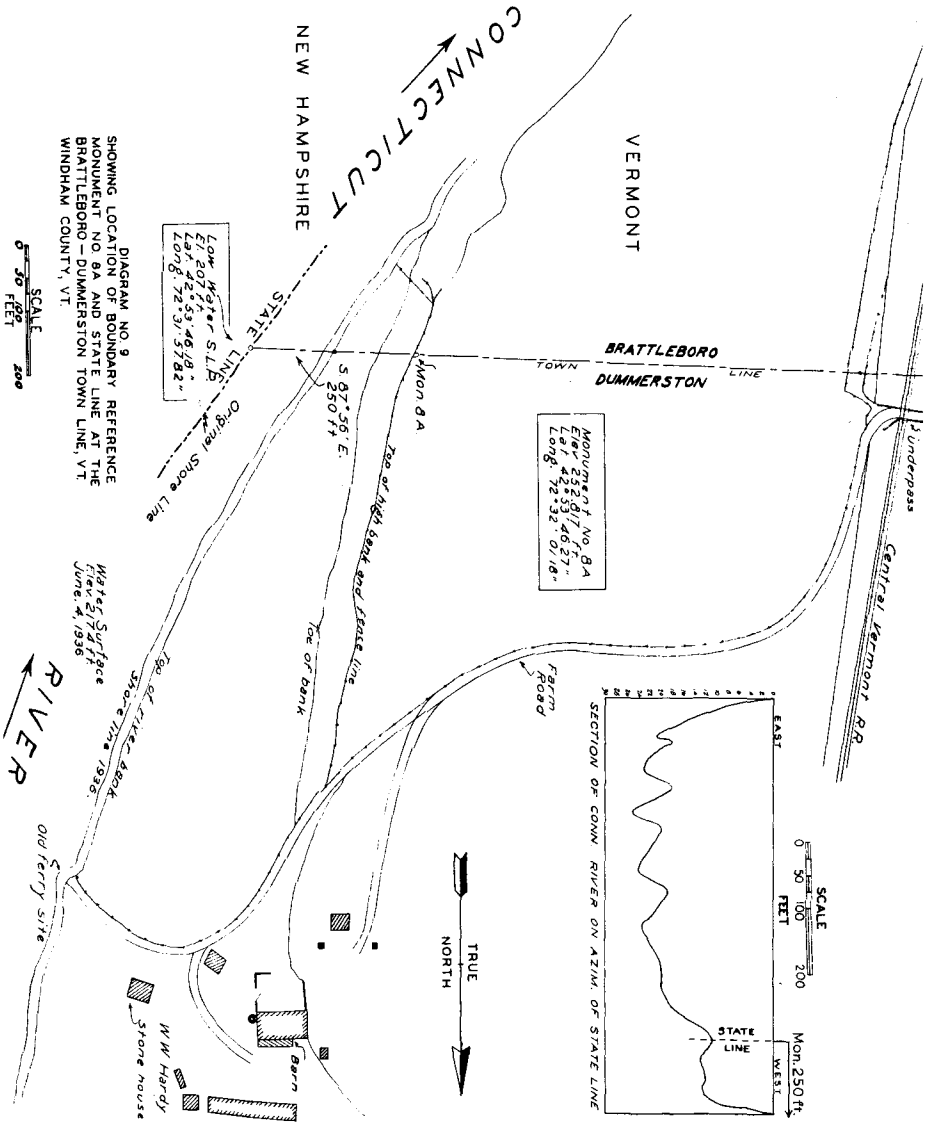
Note - Outlines of Islands 99 and 100 and
shore line of Conn. River of 1907 were
taken from Oratrix exhibit No 43
(Vermont map book VII) pages 154-155
Original scale of blueprint
160 ft. = 1 inch

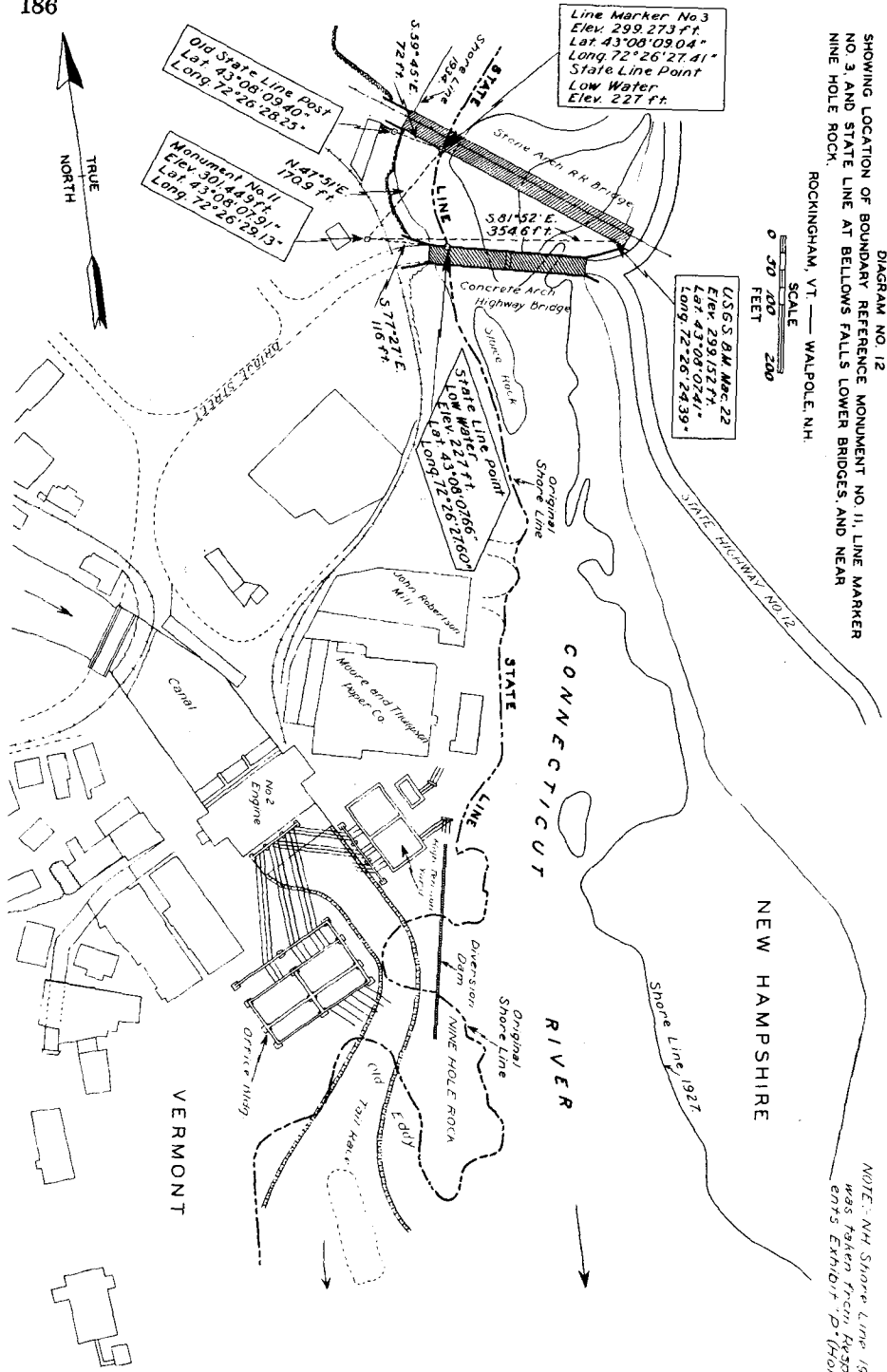


CONNECTICUT RIVER

NEW HAMPSHIRE

VERMONT

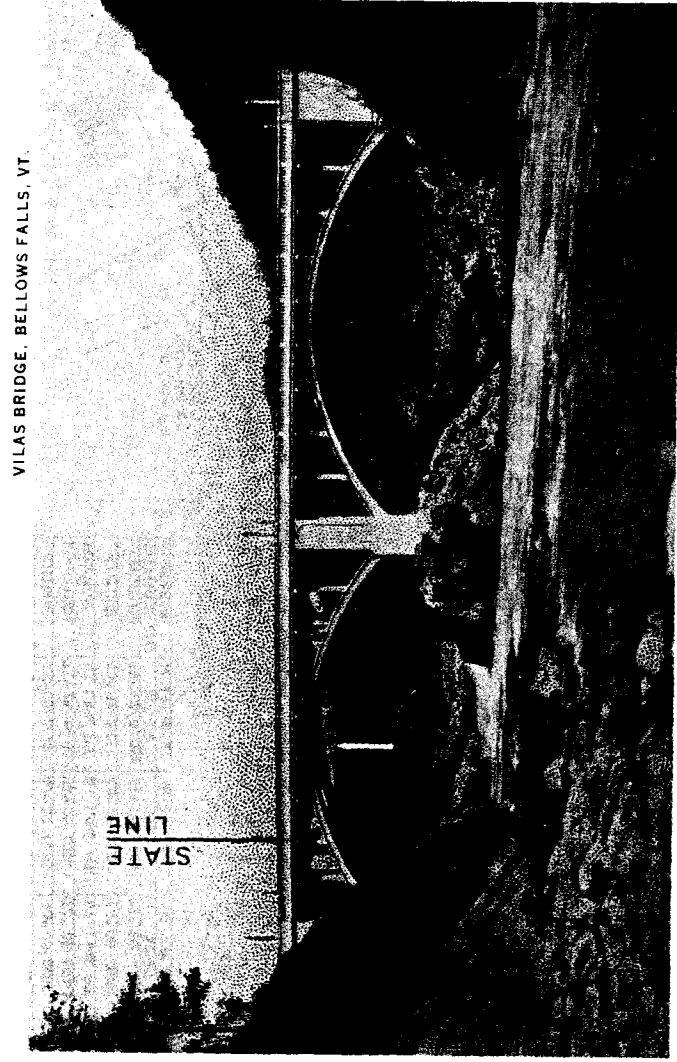




TRUE NORTH

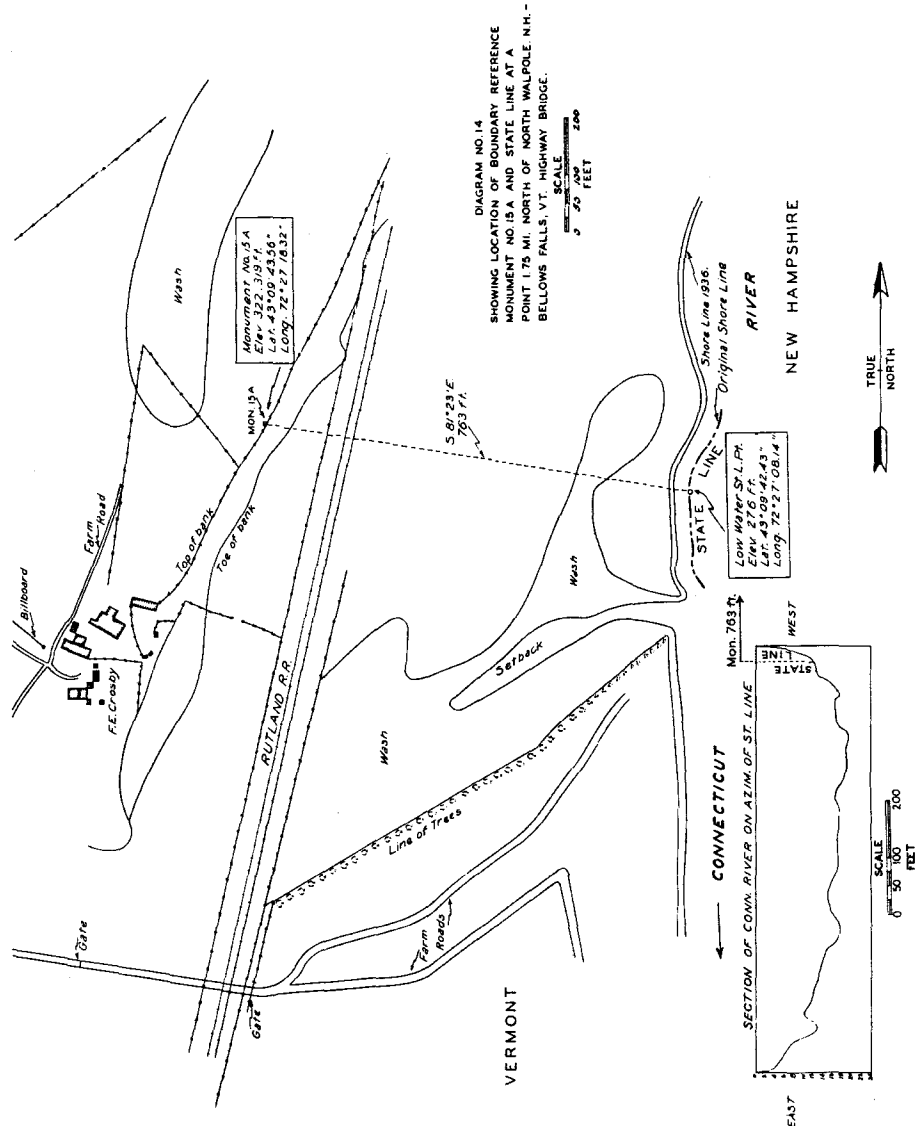
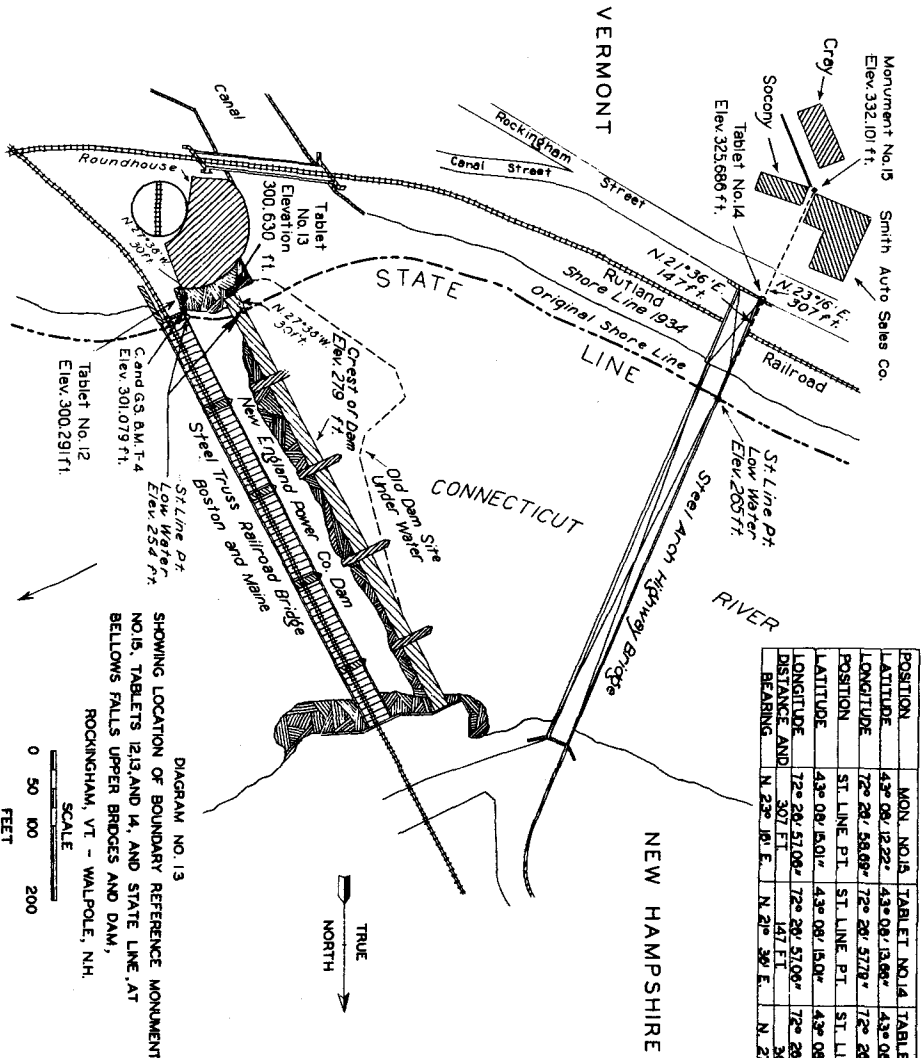
SHOWING LOCATION OF BOUNDARY REFERENCE MONUMENT NO. 11, LINE MARKER NO. 3 AND STATE LINE AT BELLOWS FALLS LOWER BRIDGES, AND NEAR NINE HOLE ROCK.
 ROCKINGHAM, VT. — WALPOLE, NH.

DIAGRAM NO. 12



Looking up the Connecticut River at Bellows Falls, Vermont, Toward the Vilas—Hale—Tucker Concrete Arch Highway Bridge, and also Toward the Stone Arch Railroad Bridge.

NOTE.—Vermont-New Hampshire State Line near left or West end of Bridges.



NEW HAMPSHIRE

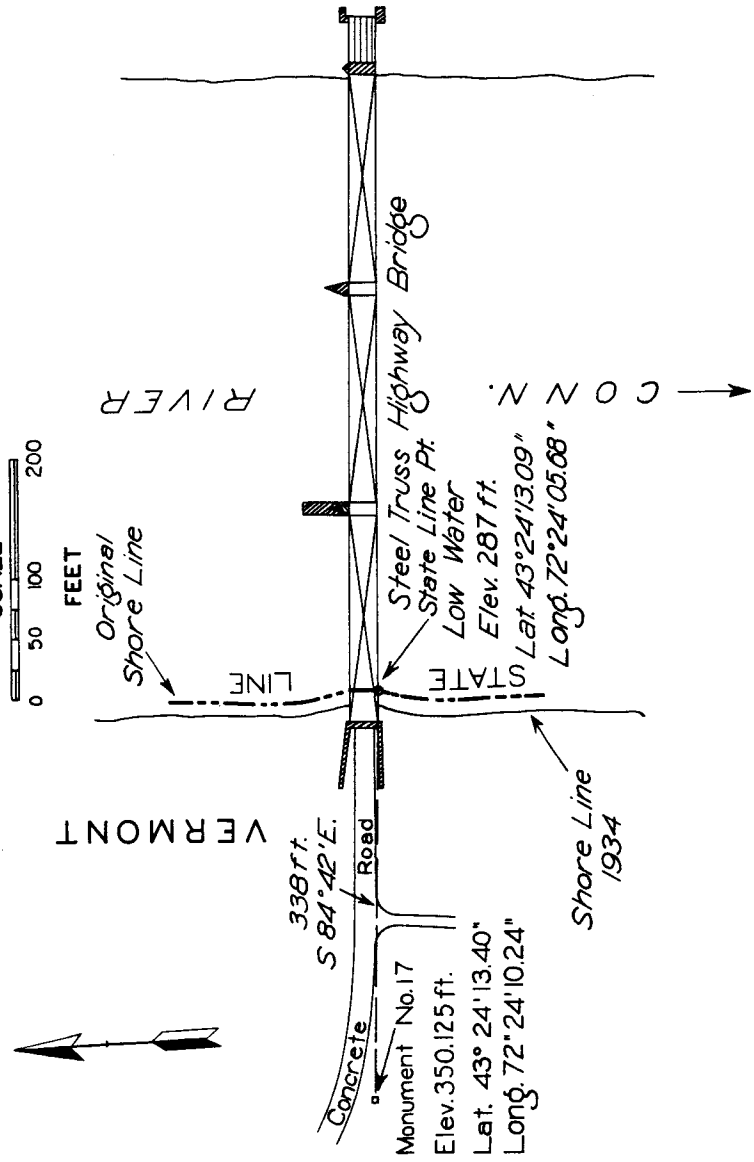


DIAGRAM NO. 16
 SHOWING LOCATION OF BOUNDARY REFERENCE
 MONUMENT NO. 17 AND STATE LINE AT ASCUTNEY
 HIGHWAY BRIDGE, CLAREMONT, N.H. - WEATHERSFIELD, VT.

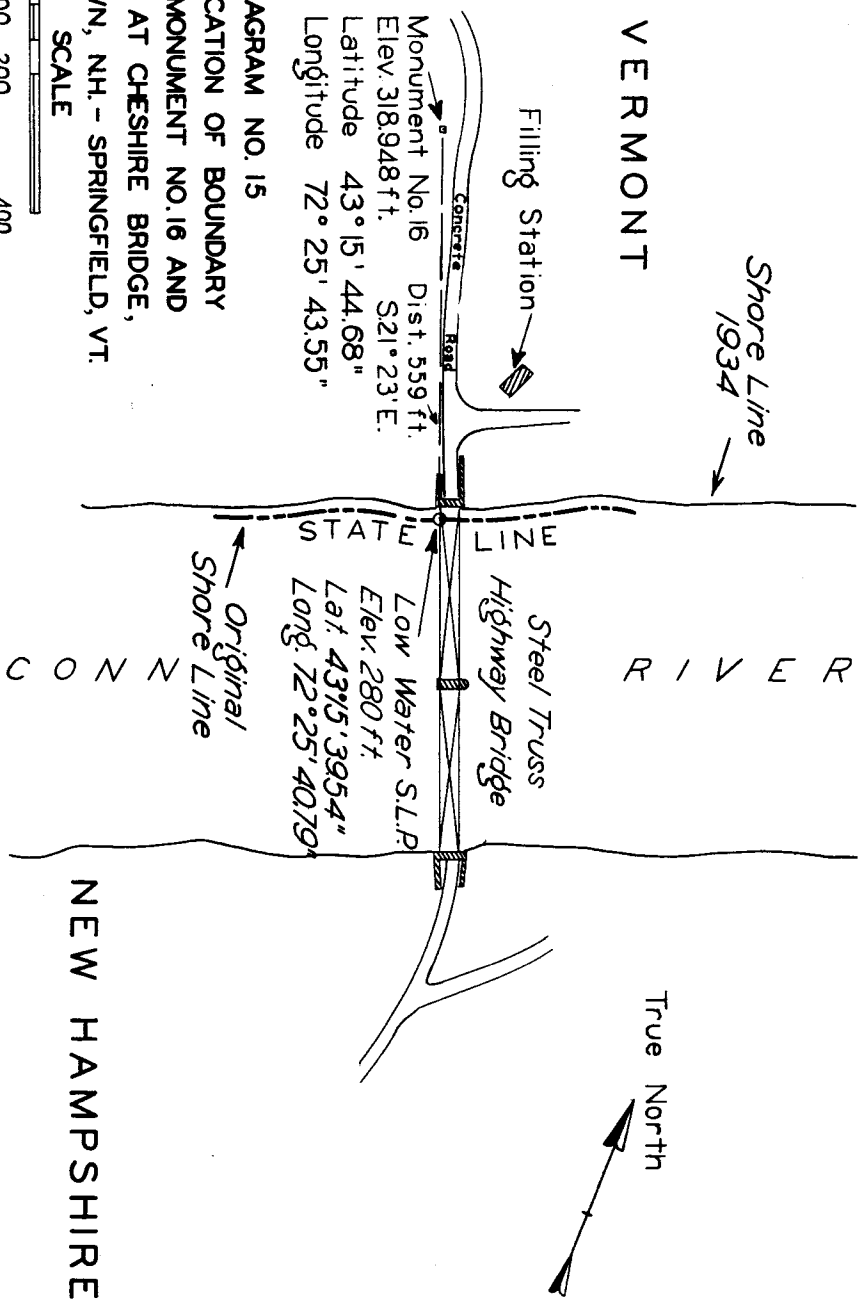


DIAGRAM NO. 15
 SHOWING LOCATION OF BOUNDARY
 REFERENCE MONUMENT NO. 16 AND
 STATE LINE AT CHESHIRE BRIDGE,
 CHARLESTOWN, NH. - SPRINGFIELD, VT.

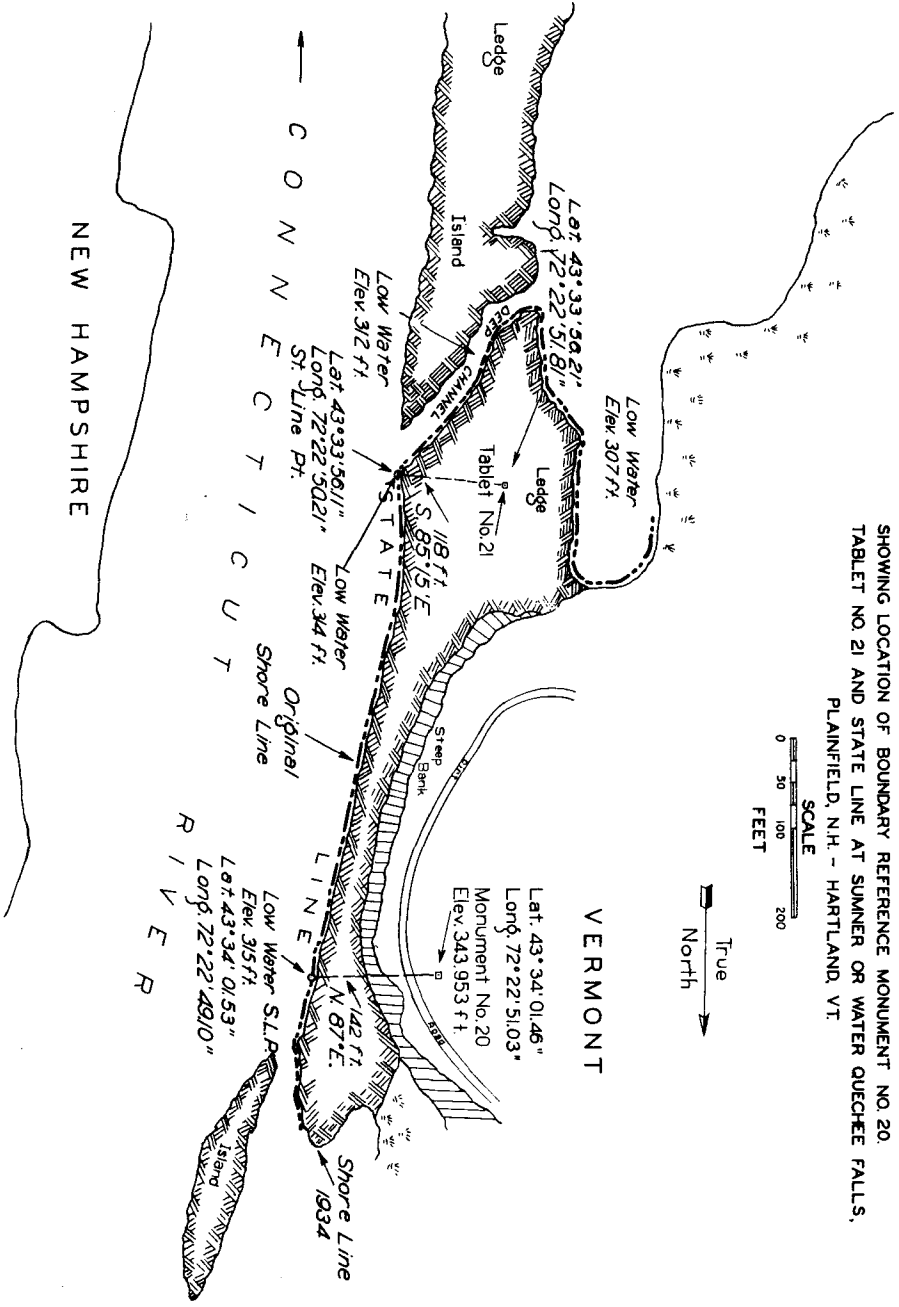


DIAGRAM NO. 19
 SHOWING LOCATION OF BOUNDARY REFERENCE MONUMENT NO. 20.
 TABLET NO. 21 AND STATE LINE AT SUMNER OR WATER QUECHEE FALLS,
 PLAINFIELD, N.H. - HARTLAND, VT.



True North

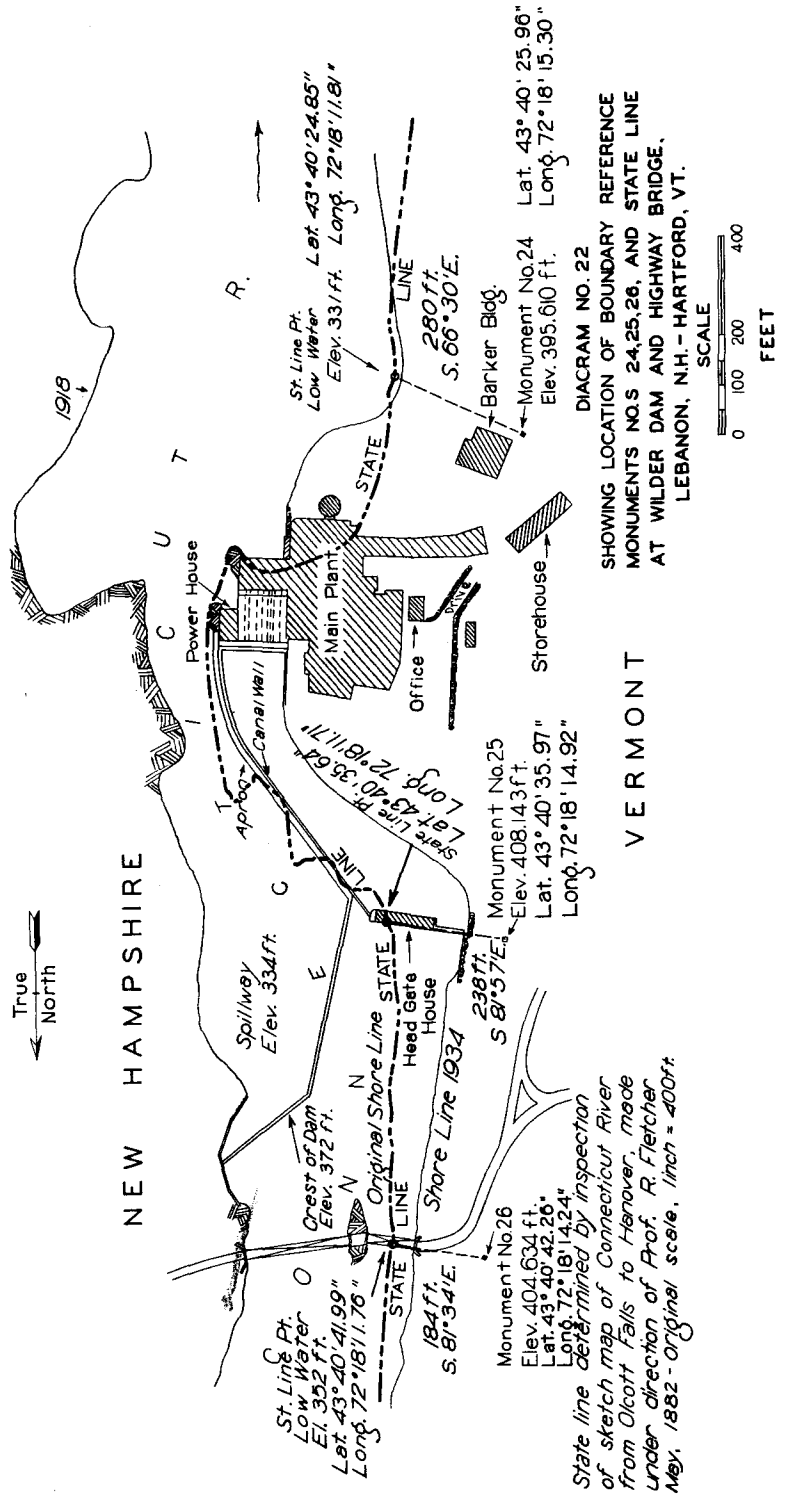
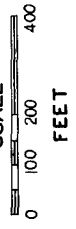


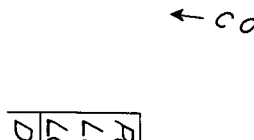
DIAGRAM NO. 22
 SHOWING LOCATION OF BOUNDARY REFERENCE
 MONUMENTS NOS. 24, 25, 26, AND STATE LINE
 AT WILDER DAM AND HIGHWAY BRIDGE,
 LEBANON, N.H. - HARTFORD, VT.



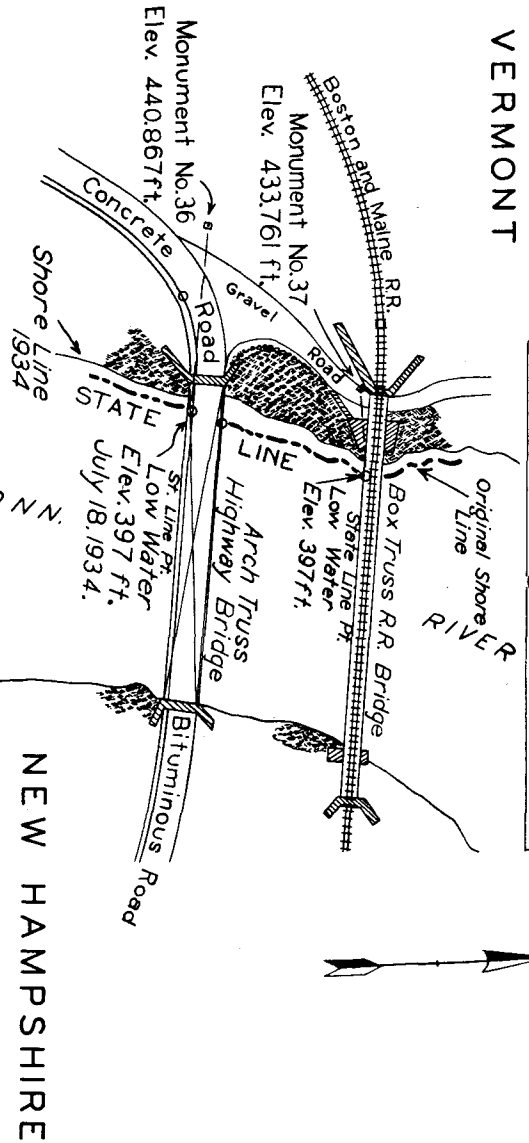
True North

*State line determined by inspection
 of sketch map of Connecticut River
 from Olcott Falls to Harover, made
 under direction of Prof. R. Fletcher
 May, 1882 - original scale, 1 inch = 400ft.*

DIAGRAM NO. 32
 SHOWING LOCATION OF BOUNDARY
 REFERENCE MONUMENTS NOS. 36, 37
 AND STATE LINE AT WELLS RIVER, VT.



Position	Mon. #36	State Line Pt.
Latitude	44°09'15.95"	44°09'15.82"
Longitude	72°02'32.69"	72°02'30.00"
Dist.	153 ft.	Bearing S. 84°55'E.



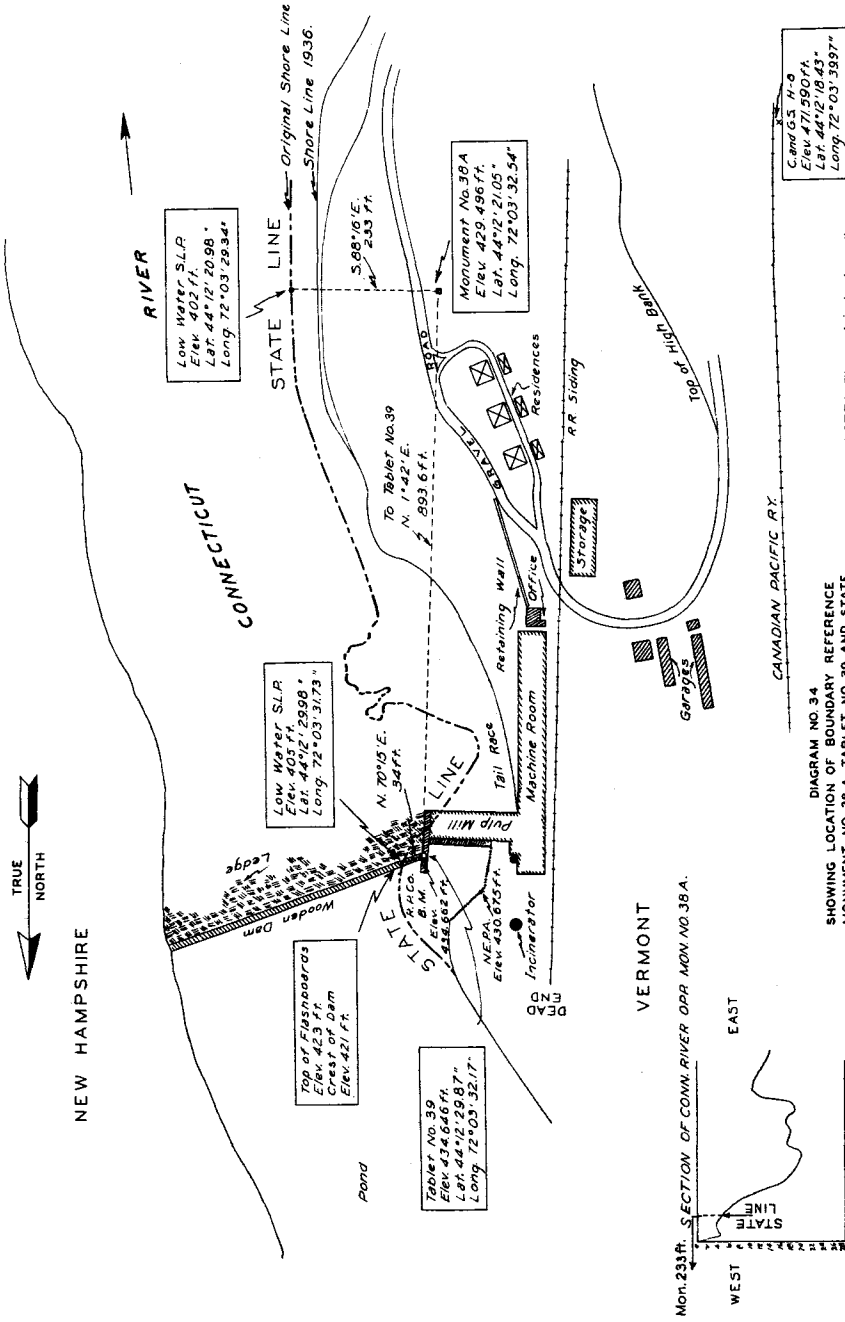
VERMONT

True North

Position	Mon. # 37	State Line Pt.
Latitude	44°09'17.20"	44°09'17.20"
Longitude	72°02'30.80"	72°02'29.87"
Dist.	75 ft.	Bearing S. 89°48'E.



NEW HAMPSHIRE



SECTION OF CONN. RIVER D.P.R. MON. NO. 38A.



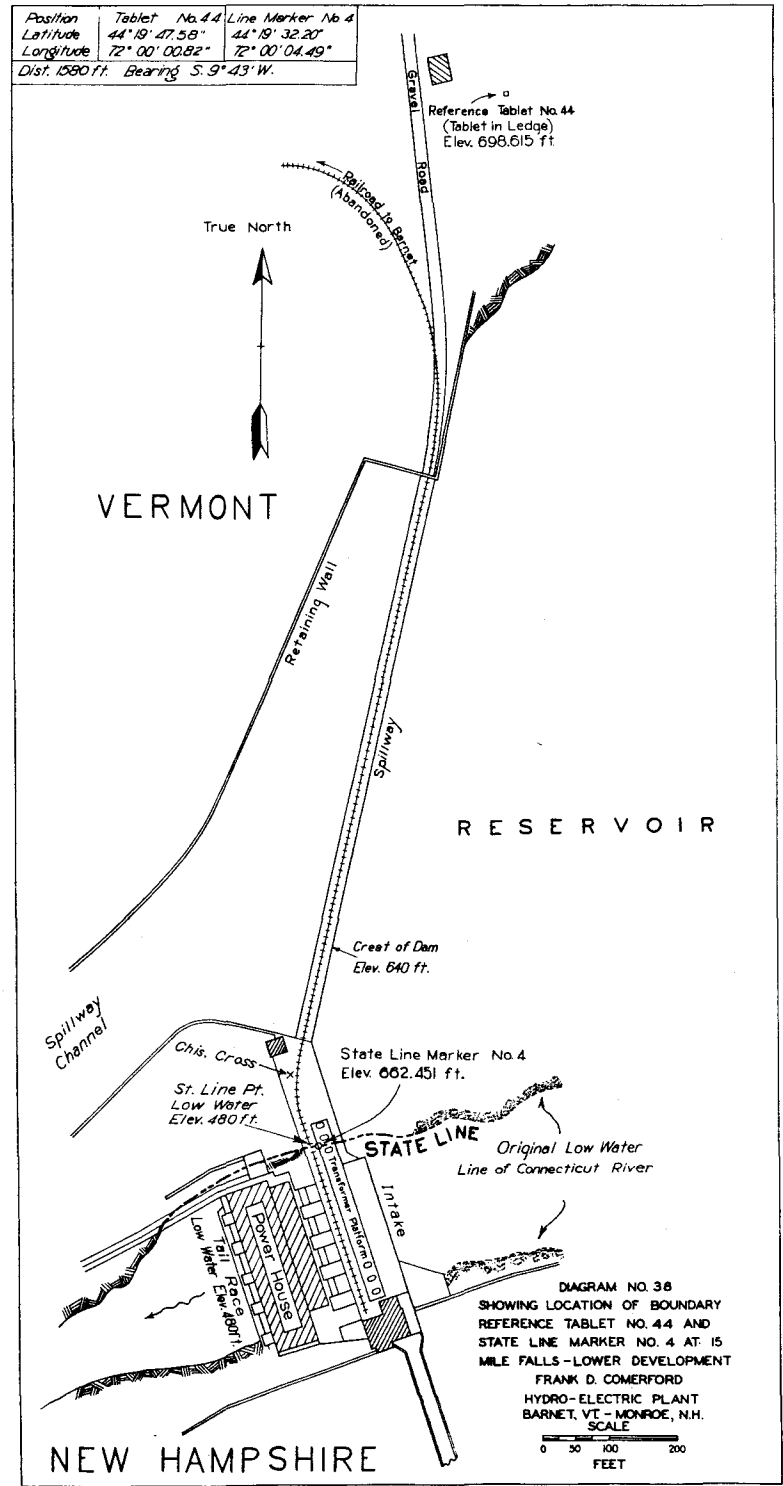
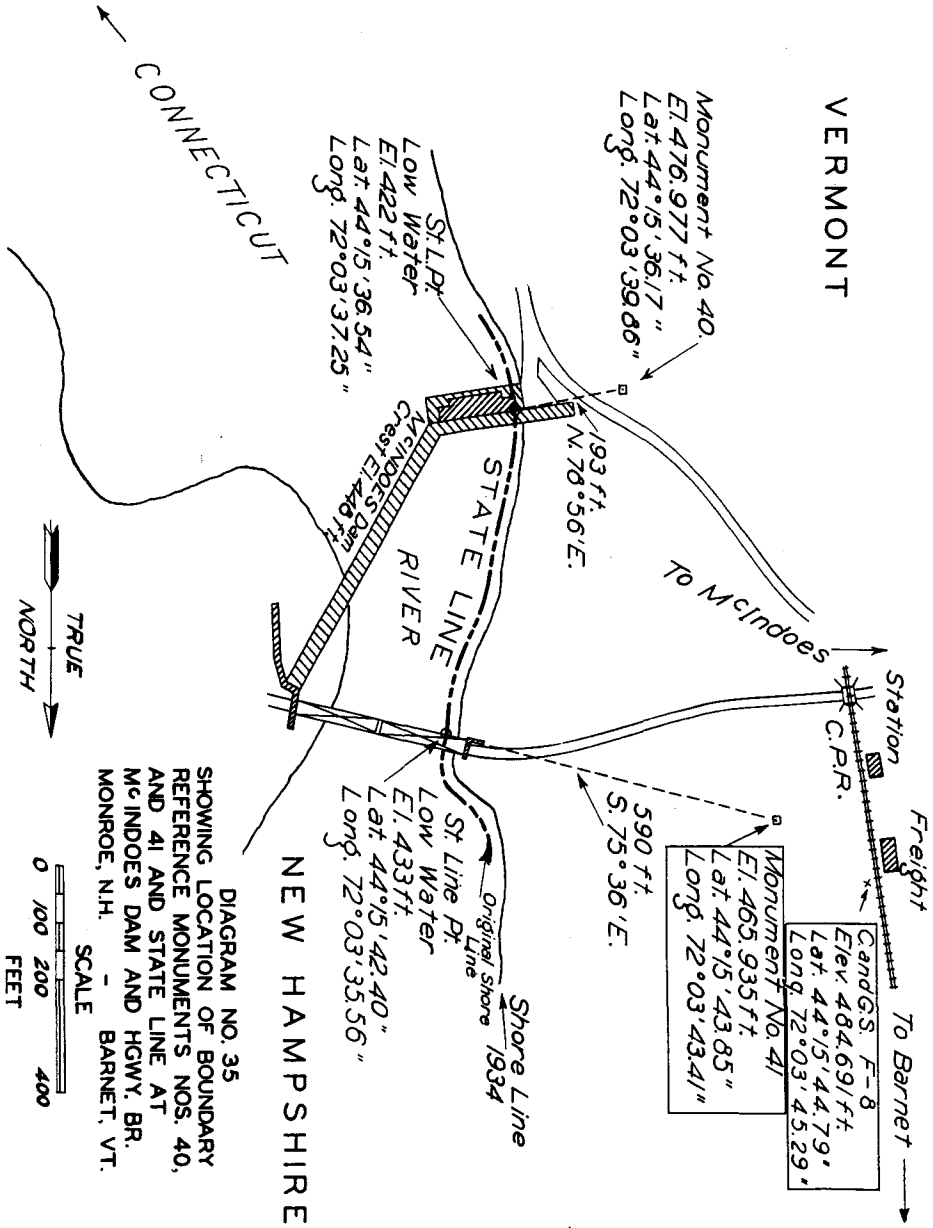
DIAGRAM NO. 34
 SHOWING LOCATION OF BOUNDARY REFERENCE
 MONUMENT NO. 38A, TABLE NO. 39, AND STATE
 LINE AT RYEGATE PAPER CO. DAM, EAST RYEGATE, VT.

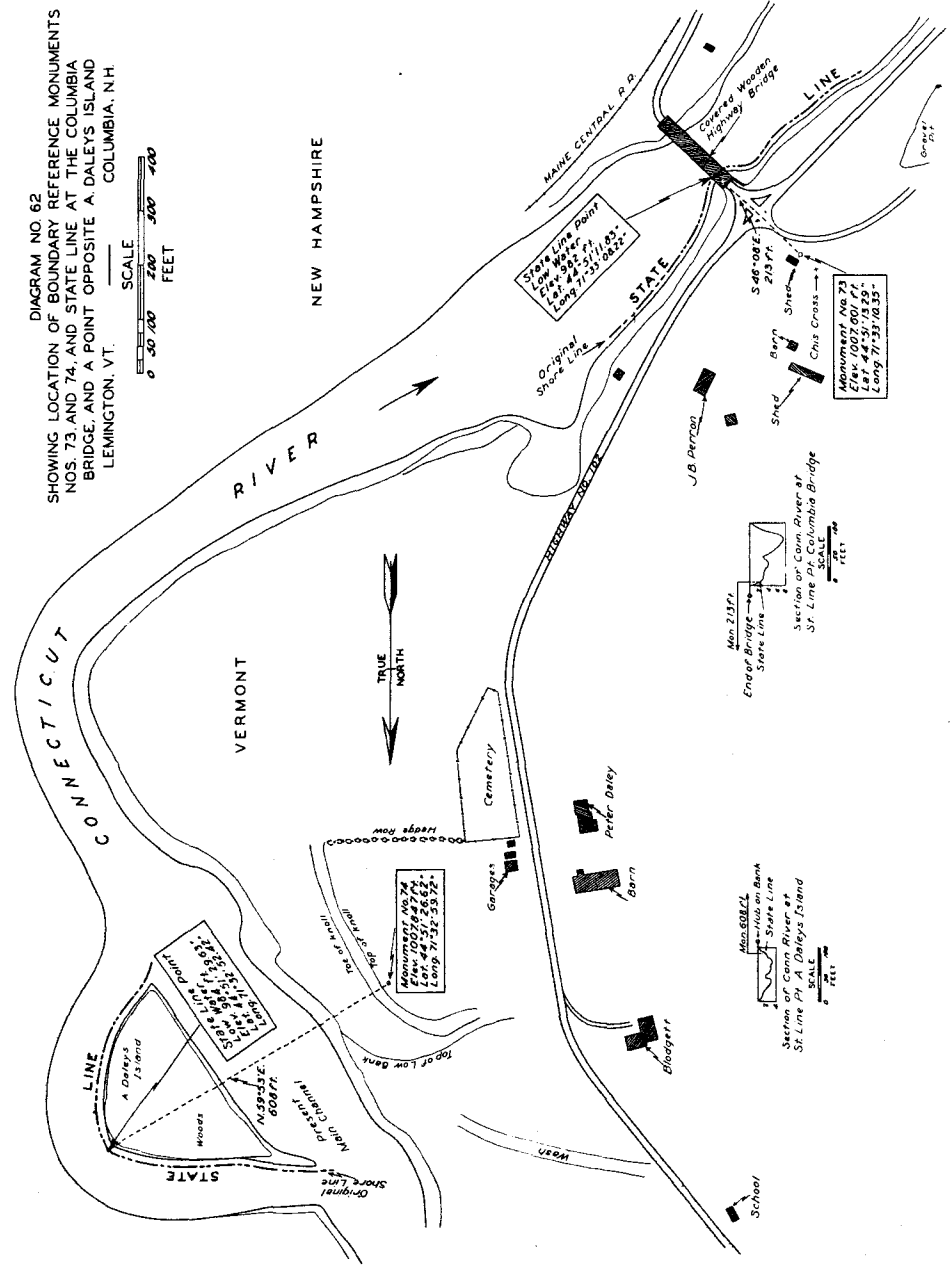
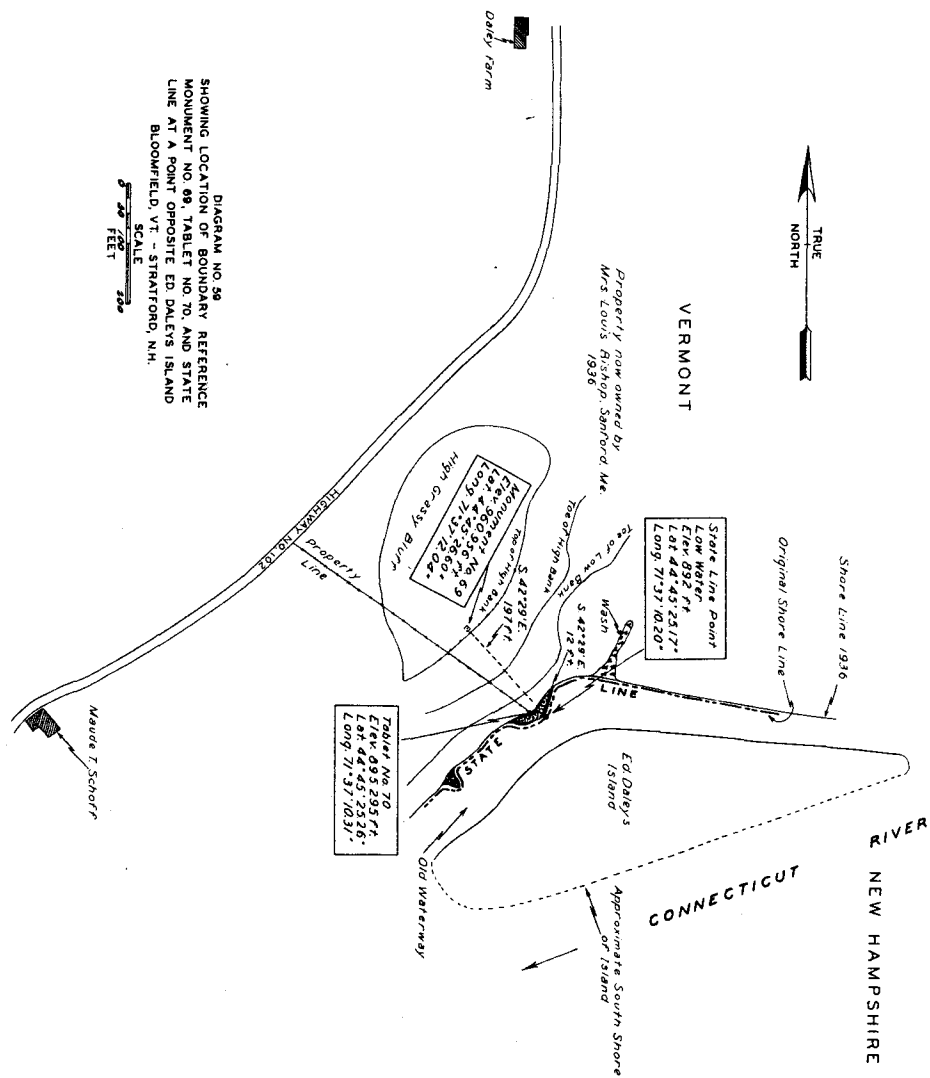


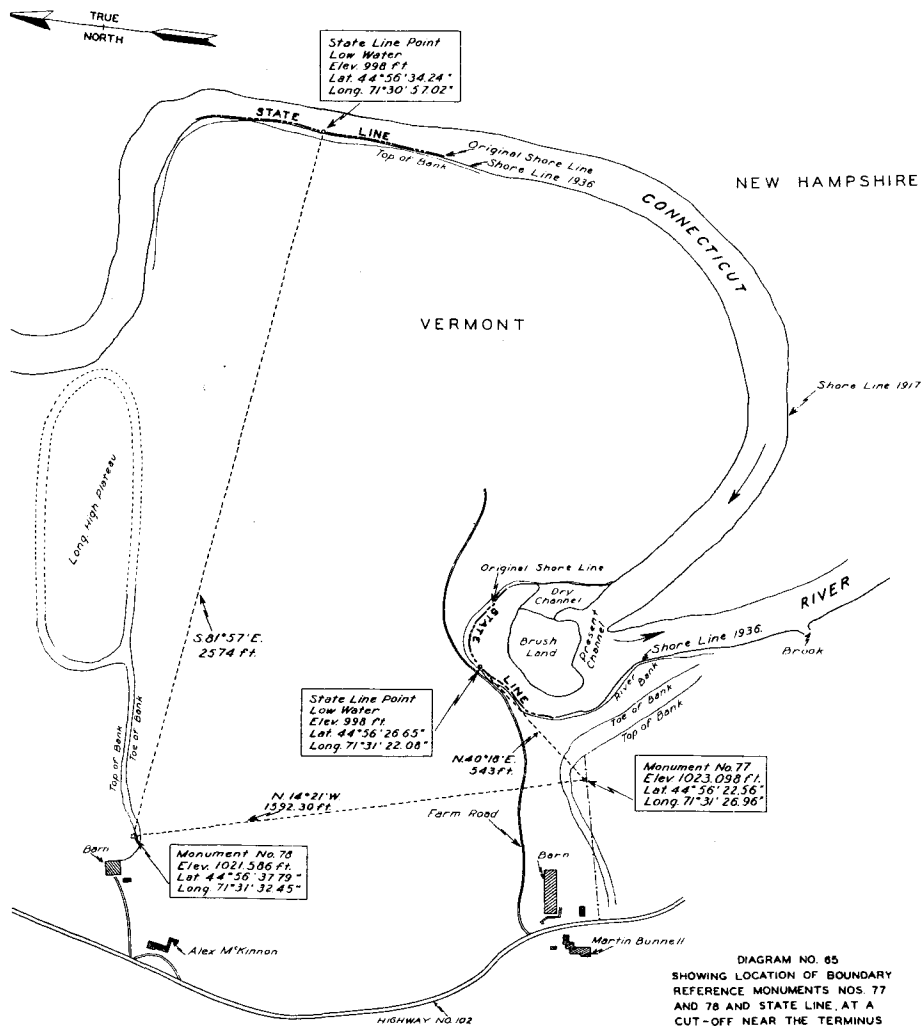
CANADIAN PACIFIC RY.

Corner G3 H-0
Elev. 471,590 ft.
Lat. 44°12'10.43"
Long. 72°03'53.97"

NOTE: - The original shore line was taken from the Geo. F. Hardy General plan of Mill Site for Ryegate Paper Co. East Ryegate, Vt. Scale 40 ft = 1 inch. Mar. 1894.



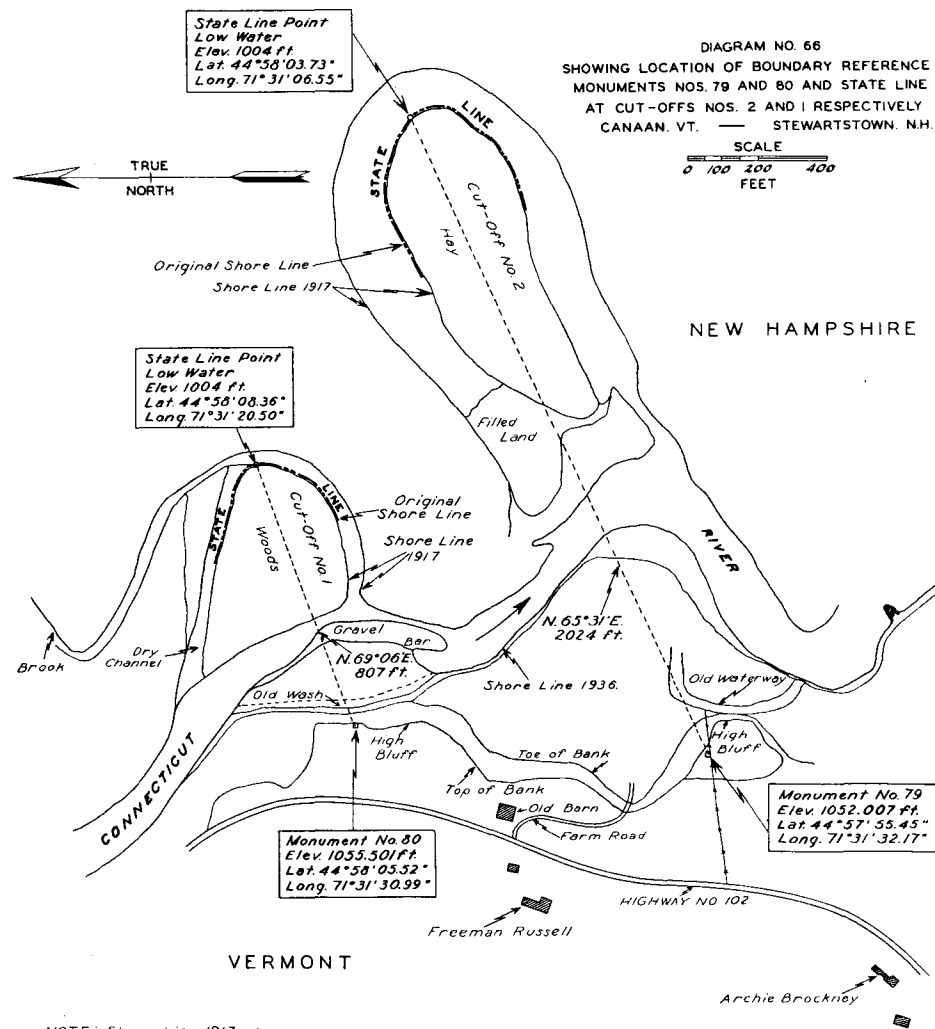




NOTE: Shore Line 1917 was taken from Respondents Exhibit "F" 22-209.

DIAGRAM NO. 65
SHOWING LOCATION OF BOUNDARY REFERENCE MONUMENTS NOS. 77 AND 78 AND STATE LINE AT A CUT-OFF NEAR THE TERMINUS OF THE COLEBROOK-STEWARTSTOWN TOWN LINE AND AT A POINT OPPOSITE THE TERMINUS OF THE COLEBROOK-STEWARTSTOWN TOWN LINE.
COLEBROOK, N.H. — CANAAN, VT.

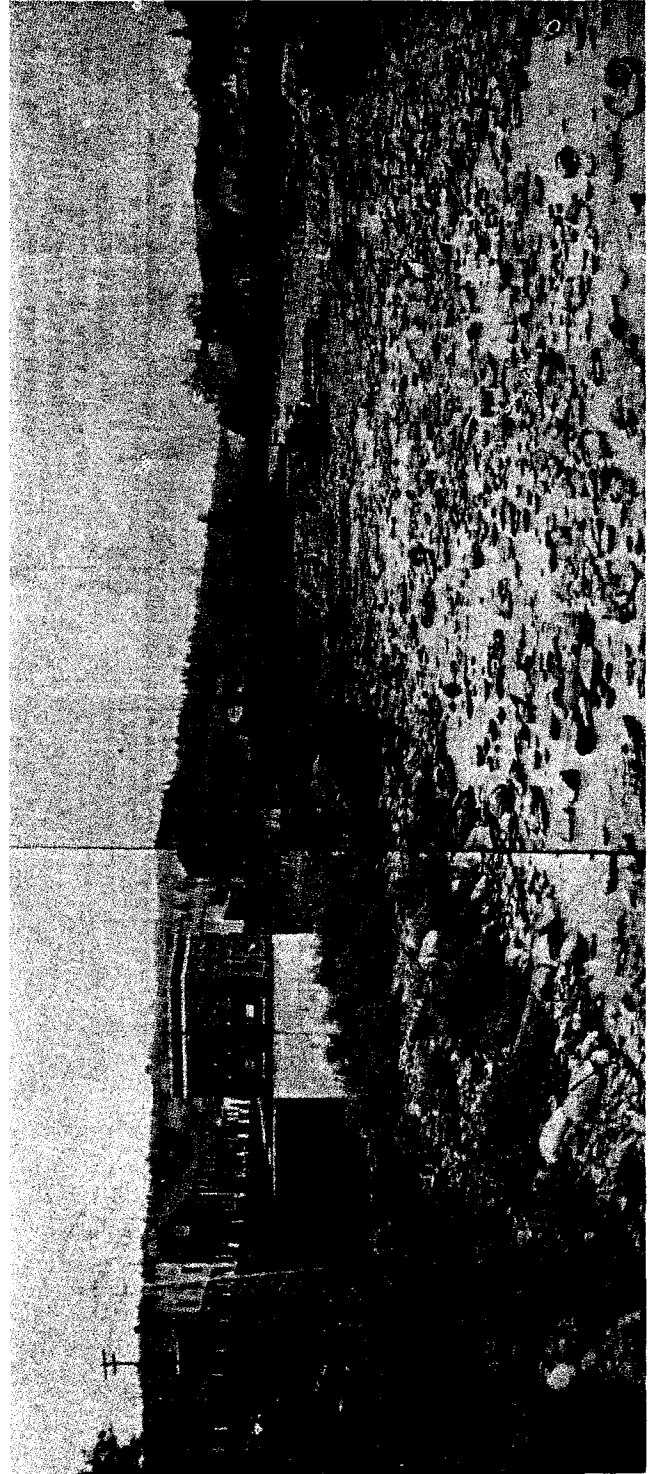
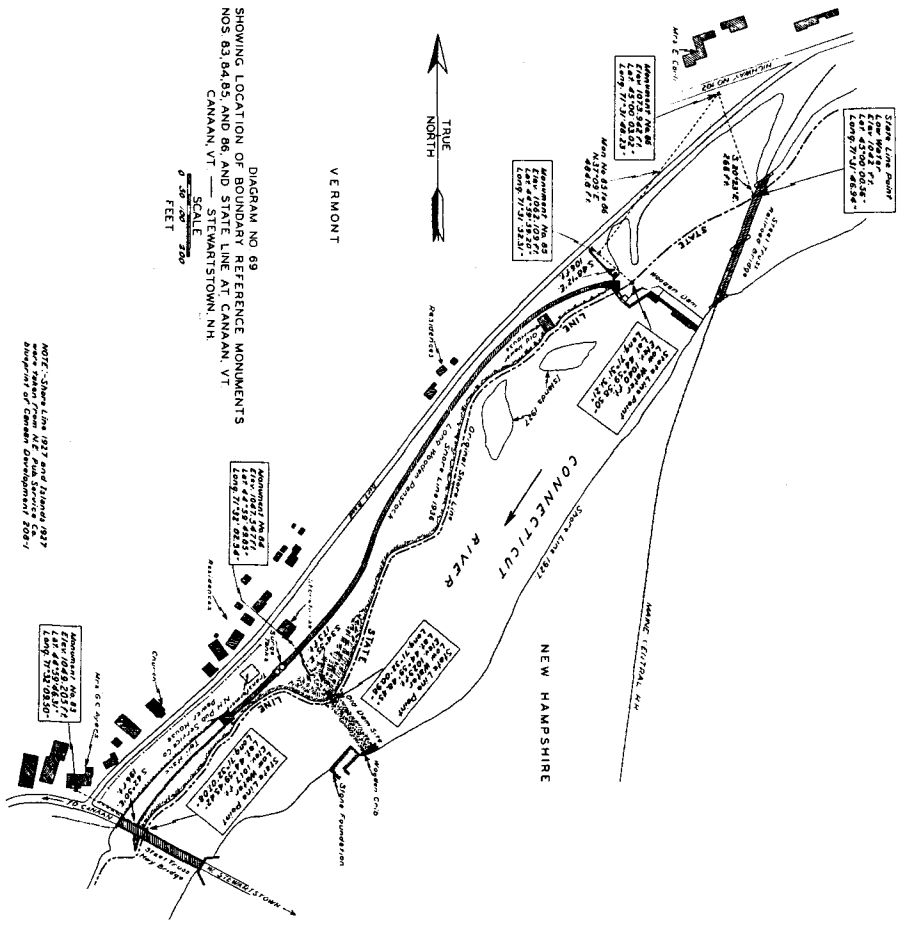
SCALE
0 100 200 400
FEET



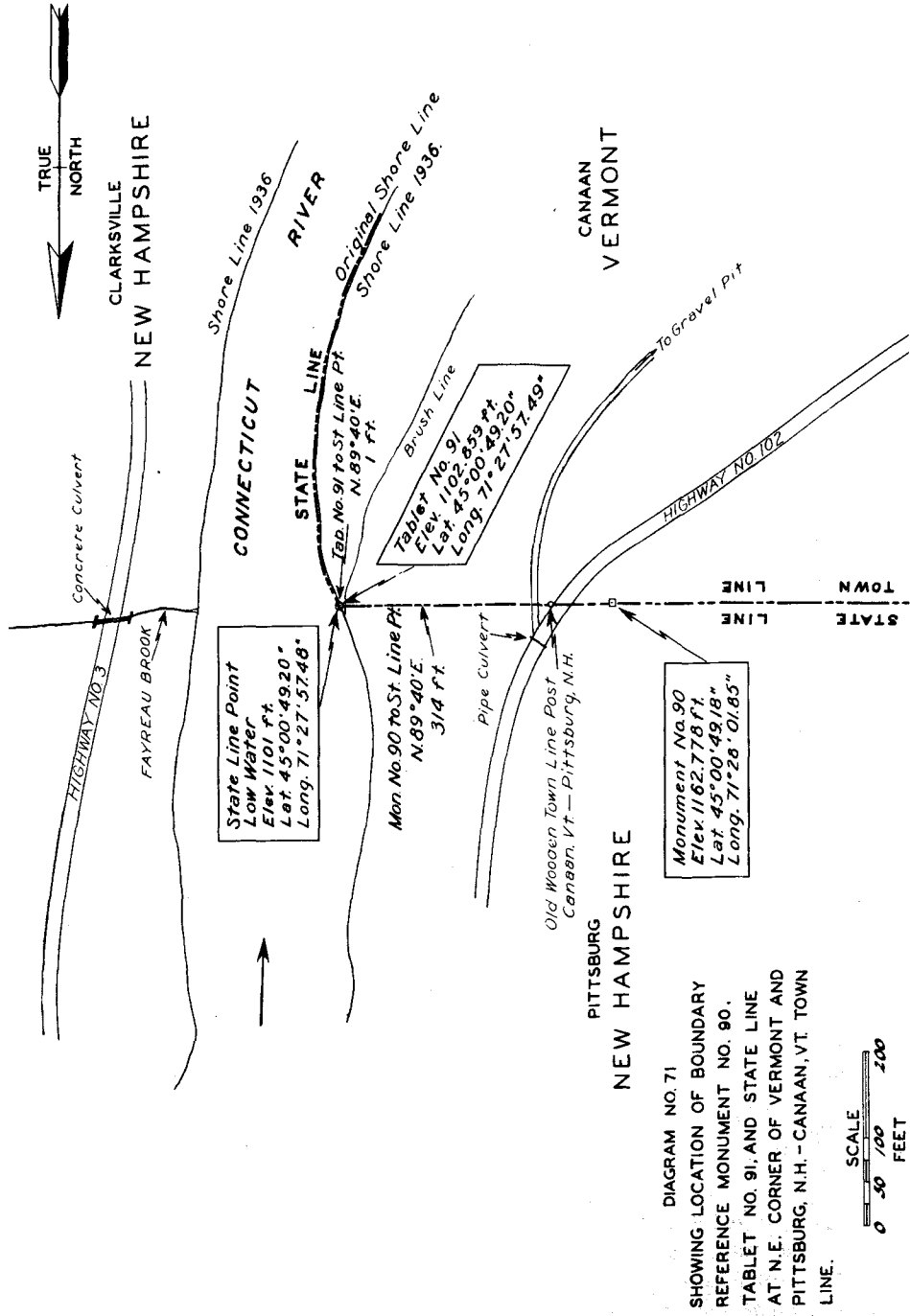
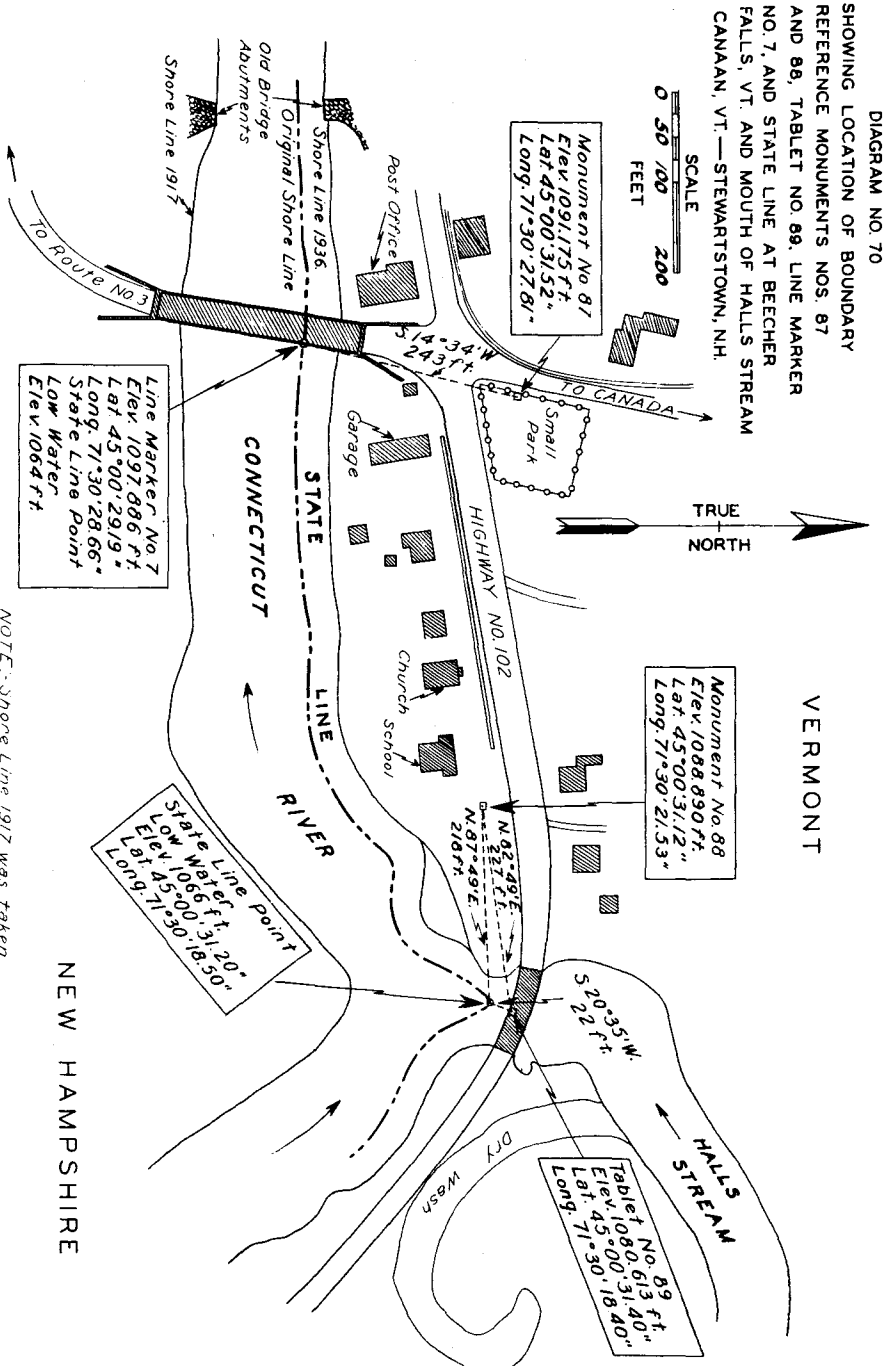
NOTE: Shore Line 1917 was taken from Respondents Exhibit "F" 22-211

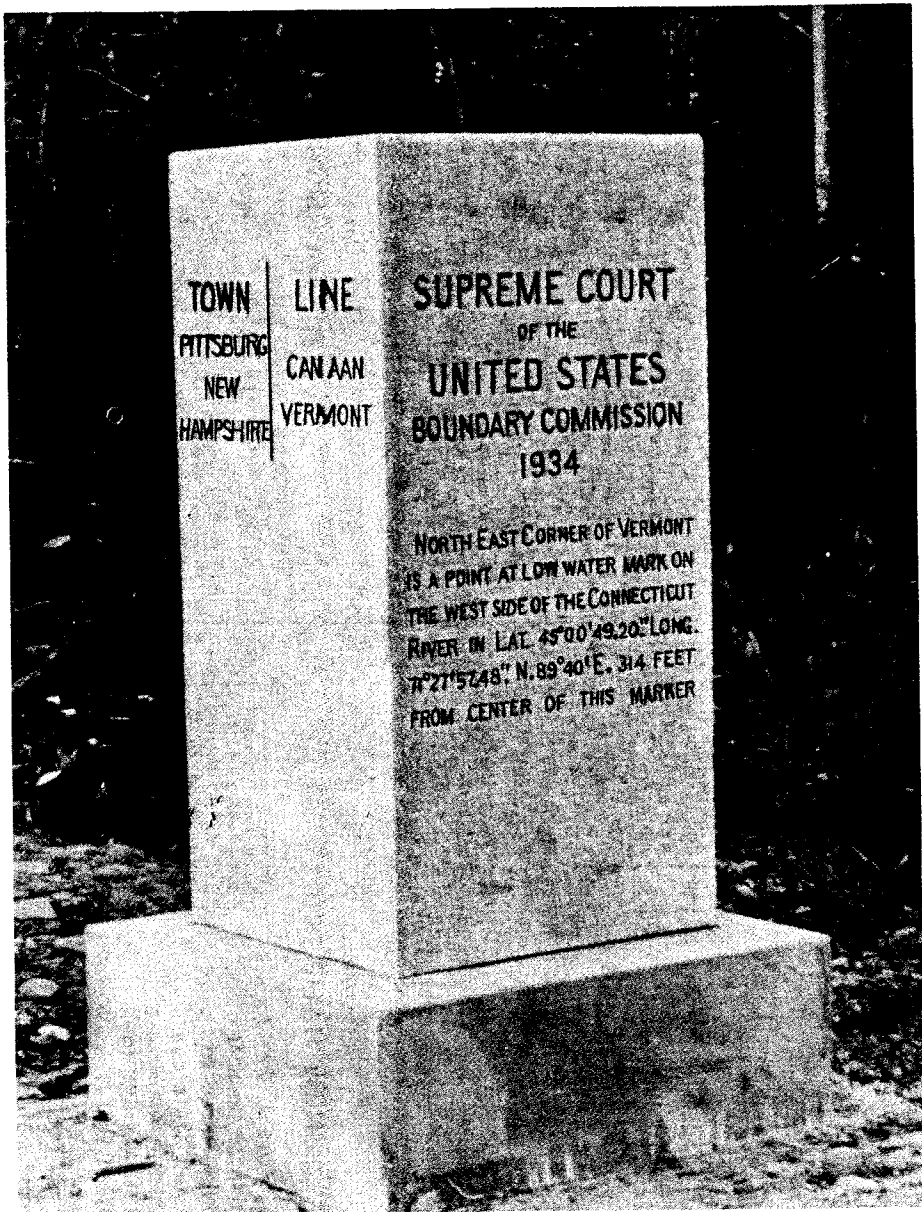
DIAGRAM NO. 66
SHOWING LOCATION OF BOUNDARY REFERENCE MONUMENTS NOS. 79 AND 80 AND STATE LINE AT CUT-OFFS NOS. 2 AND 1 RESPECTIVELY
CANAAN, VT. — STEWARTSTOWN, N.H.

SCALE
0 100 200 400
FEET



Looking up the Connecticut River from the Canaan, Vermont—West Stewartstown, New Hampshire, Steel Truss Highway Bridge Toward the W. F. Allen old Dam Site.





Large Reference Monument for the Northeast Corner of Vermont and on the Canaan, Vt.—Pittsburg, N. H. Town Line.

