

Original

# 8531

Diag'd, on diag. ch. No. 1206

Form 504

U. S. COAST AND GEODETIC SURVEY  
DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey Air Photographic Topographic

Field No. \_\_\_\_\_ Office No. T-8531

### LOCALITY

State Maine & New Hampshire

General locality Rockingham County

Locality Portsmouth, N. H.

1943

CHIEF OF PARTY

Fred. L. Peacock

LIBRARY & ARCHIVES

DATE March 31-1948

B-1870-1 (1)++

# 8531

DATA RECORD

T-8531

Quadrangle (II):

Portsmouth, N. H. 7 1/2 min. Quadrangle

Field Office:

Sanford, Maine

Compilation Office:

Baltimore, Md.

Instructions dated (II III):

May 1st, 1943

Project No. (II):

CS-303-C, South

Chief of Party:

F. L. Gallen

Chief of Party:

Fred. L. Peacock

Copy filed in Descriptive

~~Report No. T-~~ (VI)

Div. of Photogrammetry Office Files

Completed survey received in office: 28 Dec. 1943

Reported to Nautical Chart Section:

Reviewed: 3/25/44

Applied to chart No.

Date:

Redrafting Completed: 21 April, 1944

Registered: 20 Feb 1948

Published: 1944

Compilation Scale: 1:20,000

Published Scale: 1:25000

Scale Factor (III): none

Geographic Datum (III): N. A. 1927

Datum Plane (III): Mean Sea Level

Reference Station (III): PEVERLY, 1941

Lat. 43° 02' 42.804" 1320.9 (530.6)m Long.: 70° 46' 45.343" 1026.3 (331.7)m <sup>Adjusted</sup> ~~Unadjusted~~

State Plane Coordinates (VI): New Hampshire (single zone)

X = 737,225.84 ft.

Y = 199,958.28 ft. X

Military Grid Zone (VI) "A"

Harbor Defense Grid Portsmouth-Portland Area ✓



STATISTICS (III)

Land Area (Sq. Statute Miles): 47

Shoreline (More than 200 meters to opposite shore): 32.7 Statute Miles

Shoreline (Less than 200 meters to opposite shore): 5.1 Statute Miles  
(center line of streams only)

Number of Recoverable Topographic Stations established: 21  
(19 of these stations are Bench Marks)

Number of Temporary Hydrographic Stations located by radial plot: None

Leveling (to control contours) - miles: ~~Unknown~~ 64 mi.

Roman numerals indicate whether the item is to be entered by,

(II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname

and initials (not initials only).

Remarks:

## General Procedure in the Production of Topographic Quadrangles for the War Department

This quadrangle, together with similar adjoining maps produced under Project C.S. 323C, was prepared by the Coast and Geodetic Survey for the War Department under "General Specifications for War Department Mapping Program" issued about December 1941, in which is incorporated the "Standard of Accuracy for a National Map Production Program" issued by the Bureau of the Budget under date of June 10, 1941.

The general procedure in the production of this and the adjoining quadrangles was:

### FIELD SURVEYS

Aerial photography with the Coast and Geodetic Survey nine-lens camera, with airplane and flight crew furnished by the U. S. Coast Guard. The photographs were taken to the scale of 1:20,000. 1943

Ground inspection of the photographs for identification of control points, and classification and clarification of planimetric details on the photographs.

Contouring by planetable directly on the photographs. Supplementary vertical control was established by means of an extensive subordinate level net, furnishing unmarked elevations at road intersections, driveways, and numerous other points identifiable on the photographs.

### COMPILATION OF MANUSCRIPT

Compilation on the map manuscripts by radial plot methods (celluloid hand templates) of all planimetry and contours. These manuscripts were drawn on the scale of 1:20,000 on celluloid sheets on which polyconic projections had been ruled with the Projection Ruling Machine in the Washington Office. Compilation was accomplished in the Baltimore Tampa Photogrammetric Office.

### FIELD EDIT

Comparison of a copy of the manuscript with the ground. This included inspection for completeness and accuracy as well as the location by planetable methods of additional details, checking of nautical and aeronautical aids to navigation, etc.

Accuracy Tests - Application of systematic horizontal and vertical accuracy tests to check the maps for conformity with the specifications. These tests consisted of comparison of the map position and elevation of selected random points with the true position and elevation as independently determined by standard survey methods.

#### PROCESSING IN THE WASHINGTON OFFICE

Review - Examination of the manuscript for accuracy and completeness of compilation and compliance with specifications, correcting where necessary; addition of military and state grids and other special features; and verification of the general adequacy of the manuscript as a basis for the production of a finished map.

Drafting and Reproduction - Preparation of smooth color separation drawings on 1:20,000 scale on metal-mounted "blue-line" copies of the manuscript. From these drawings, negatives and printing plates were prepared for reproduction of the finished map on the scale of ~~1:31,680~~ or 1:25,000.

FIELD INSPECTION REPORT  
QUADRANGLE T-8531  
PROJECT 303-C (SOUTH)  
F. L. GALLEN, CHIEF OF PARTY

1. In the southern half of the quadrangle, U. S. Highway No. 1 runs in a north-south direction along a general divide. The Winnicut River, Packers' Brook, and Pickering Brook drain the area to west flowing into the Great Bay and Berrys Brook and Sagamore Creek drain the area to the east flowing into the ocean. The northern portion of the quadrangle is drained by small tributaries of the Piscataqua River which flows in a southeasterly direction. The Great Bay and Little Bay are also drained by the river.

The area as a whole is quite thickly settled. There are numerous small farms and scattered orchards. The northern portion of the quadrangle is comparatively flat while the southern portion is rather rough. The highest elevation is 204 feet in the southwest corner of the quadrangle. ~~No 200 ft. contour on the sheet.~~

Portsmouth, population 14,821, the only city in the area, is located at the mouth of the Piscataqua River.

The Portsmouth Airport was under construction at the time of the contouring. However, the rough grading was completed and only minor changes were to be made, which would affect the contours very little.

2. See the report for Quadrangle T-8533.
3. See the report for Quadrangle T-8533.
4. The horizontal control is the subject of a separate report.
5. See the report for Quadrangle T-8533.
6. See the report for Quadrangle T-8533.
7. The Mean High Water line has been indicated on the photographs where it could be determined by this party.
8. The Low Water line has been indicated on the photographs where it could be determined by this party.
9. The wharves and shore line structures have been indicated on the photographs.
10. Details offshore from the Mean High Water line have been indicated on the photographs where they could be seen from the shore line.
11. Landmarks and Aids to Navigation were investigated by a separate party.
12. No Hydrographic Control was established in this quadrangle.

13. The Portsmouth Municipal Airport lies in this quadrangle. The Airport has been under construction for some time and it is nearing completion at this time.

14. All roads are classified according to instructions from the Army War College, dated November 11, 1942.

15. The dimensions and load limits of the bridges have been shown on the photographs, but they have not been classified.

16. All buildings and structures have been indicated in contrasting colors on the photographs.

17. Boundary monuments and lines are the subject of a separate report for this quadrangle.

18. Geographic names is the subject of a separate report for this project. \*

19. All the adjoining quadrangles are on overlapping photographs. The junctions have been checked in the field and should be found correct.

Approved and Forwarded

*F. L. Gallen*

F. L. Gallen  
Chief of Party

Submitted by,

*Glenn B. Woolley*  
per *W. E. G.*  
Glen B. Woolley  
Sr. Engineering Aid



### BUILDINGS

b - barn  
Bldg - Building  
Bo Ho - Boat House  
Ch - Church (give name)  
Ct Ho - Court House (give name)  
P.O. - Post Office (give name)  
Sch - School (give name)  
Hos - Hospital (give name)  
RR Sta - Railroad Station  
Sto - Country store or gas station  
P Sta - Power Station

### BOUNDARIES

BDY - Boundary  
F B - Fire Break  
HDG - Hedge  
Park - Park  
Cem - Cemetery  
Co - County

### LANDMARKS

FT - Fire Tower (give name)  
TT - Transmission Tower  
RT - Radio Tower or mast  
Air Bn - Airway Beacon  
Bn - Non-lighted aid to navigation  
Lt - Lighted aid to navigation  
Tk - Low tank  
Tk elev - Tank elevated on structure  
Stk - Stack

### GENERAL

X - delete; except where it pertains to elevations. Use only the abbrev. listed on this page. Do not make up abbreviations.

### SHORE LINE

MWL - Mean high water; fast land  
LWL - Low water line  
LL - Marsh shore line  
M - Marsh  
MG - Marsh grass in water  
Dk - Dock  
Pier - Pier  
Sea W - Sea Wall  
Blhd - Bulkhead  
Jet - Jetty  
Dol - Dolphin  
Pile - Pile  
S - Sand  
Mud - Mud  
Rk - Rock or Rocky  
Sty - Stony  
Cone - Concrete  
Wo - Wood  
Blf - Bluff  
Dune - Dune

### STREAMS AND PONDS

D - Largest ditches only  
DX - Small ditch (delete)  
IS - Intermittent stream  
PD - Probable drainage  
Cr - Creek  
Ca - Canal  
Cv - Culvert  
Lev - Levee  
Dam - Dam  
P - Pond  
IP - Intermittent pond

### VEGETATION

Gr - Grass  
Sw - Swamp  
Cy Sw - Cypress Swamp

ROAD CLASSIFICATION FOR MAPS OF ALL SCALERS

CLASS	LABEL	STRUCTURE	LOADING
1	Dependable hard-surface heavy duty road.	Concrete, asphaltic concrete, bituminous Macadam, U-15 type structures.	Will bear heaviest loads with little maintenance.
2	Secondary, hard-surface all-weather road.	Surface-graded, filled gravel, waterbound Macadam, structures generally lighter than U-15 but sturdy.	Will bear fairly heavy military loads in all weather if maintained.
3	Loose-surface graded, dry-weather road.	Gravel or stone surface stable material, selected sand-clay, etc. graded and graded.	Will bear light military loads in good weather.
4	Undriven road.	Braided and braided earth, with very light structure.	Generally unsuitable for military loads.
4U	Truck road.	Woods roads, farm roads, etc. over which a standard size vehicle can be driven.	
5	Trail.	(Horse trails, foot trails, etc.)	

Roads with more than two (2) lanes are indicated by note along road, e. g. 3 LANE. Change in lanes shown by note at point of change. Main roads have two lanes unless otherwise noted.

Private roads are designated by the letter P after the road classification.

BRIDGE AND TUNNEL CLASSIFICATION

<u>First Symbol</u>	<u>One Lane</u>	<u>Unlimited</u>
Capacity	0 tons	
A	50 tons	25 tons
B	25 tons	13 tons
C	18 tons	13 tons
D	10 tons	7 tons
E	6 tons	6 tons
F	Light vehicles only	

Second

Vertical Clearance	A - over 14 feet
	B - over 13 feet
	C - over 12 feet
	D - over 11 feet, etc.

Third

Horizontal Clearance	A - over 18 feet
	B - over 17 feet
	C - over 16 feet
	D - over 15 feet, etc.

Fourth Symbol - Year of Classification

## TREE AND BRUSH

### TYPE

- D Deciduous
- E Evergreen
- C Cypress

### CONCEALMENT

- I Trees 10 feet or more in height, and thick enough when in foliage to conceal troop and vehicles.
- J Brush and undergrowth thick enough to impede foot troops and conceal troops lying down.
- K Scattered trees not thick enough to conceal troops.
- H Scattered brush not thick enough to conceal troops.

### PHYSICAL FEATURES

- RG Higher ground - usually appears in light tone on photograph; either wooded or cultivated area; may be scrub trees or brush, (usually not symbolized on photographs).
- LG Low areas - generally appear dark on photograph because swampy during rainy season; often covered with dense growth of brush.
- SW Swamp - ground covered with water or boggy most of the time; lower in elevation than LG; wooded and/or brush.
- M Salt marshes

NOTE: The above areas are not outlined but sufficient notes are made on each photograph so that the variation in tones can be correctly interpreted in the office.

26 CONTROL:

There are sixteen U. S. Coast & Geodetic Survey triangulation stations which lie within the limits of this Map Manuscript and which were used to control the orientation of photographs within this area. These stations are as follows:

- ✓ BOLT, 1941
- PEVERLY, 1941
- ✓ W.H.E.B. RADIO TOWER, 1941
- ✓ PORTSMOUTH NORTH CHURCH SPIRE, 1900, 1941
- ✓ GREENLAND ORTHODOX TALL CHURCH SPIRE, 1850, 1908
- ✓ RYE ORTHODOX CHURCH TALL SPIRE, 1850, 1908, 1928
- ✓ NORTH TOWER, PORTSMOUTH BRIDGE, 1928
- ✓ SOUTH TOWER, PORTSMOUTH BRIDGE, 1928
- ✓ PORTSMOUTH FRANKLIN SCHOOLHOUSE CUPOLA, 1900, 1928
- ✓ FRANK JONES STANDPIPE, 1908
- ✓ PORTSMOUTH STANDPIPE, 1908, 1928
- ✓ GREENACRE HOTEL, WEST CHIMNEY, 1900
- ✓ NEWINGTON R. R. STATION N. W. CHIMNEY, 1908
- ✓ NEWINGTON CHURCH SQUARE SPIRE, 1850, 1908
- ✓ WANSWORTH AURES (WENTWORTH ACRES) TANK, 1943
- ✓ KITTERY WATERWORKS STANDPIPE, 1943 (Also F.I.P. BOLT, 1941)

Field Inspection Points were established by the Field Inspection Party at well-defined points near four of the above mentioned triangulation stations. This assured accurate picking of these horizontal control stations on the office photographs. These Field Inspection Points are shown with small circles in orange ink on the reverse side of the Map Manuscript. They are:

- F.I.P. PEVERLY 1941
- F.I.P. PORTSMOUTH FRANKLIN SCHOOLHOUSE CUPOLA, 1900, 1928
- F.I.P. GREENACRE HOTEL, WEST CHIMNEY, 1900
- F.I.P. NEWINGTON R. R. STATION N.W. CHIMNEY, 1908

Three additional triangulation stations shown on this Map Manuscript were recovered by the Field Inspection Party, but not identified on the nine lens photographs. They are:

- ✓ NEWINGTON R. R. STATION, S.E. CHIMNEY, 1900
- ✓ PORTSMOUTH, ST. JOHNS CHURCH SPIRE, 1900 (N.H.)
- ✓ RYE BAPTIST CHURCH (N.H.), 1850, 1928

There are thirty-two other triangulation stations plotted within the limits of this Map Manuscript. The Field Inspection Party reported that the first 10 stations listed below might be recovered with additional field work, and the remaining 22 were not searched for. They are:

26 CONTROL: (cont'd)

- BOATHOUSE, S. W. GABLE (N.H.), 1908 *Lost*
- x DRAW SIGNAL POLE, EAST END OF BREAKWATER, (N.H.), 1908
- x DOVER POINT, WHITE FLAGSTAFF, (N.H.), 1908
- x DOVER POINT, RED BARN CUPOLA, (N.H.), 1908
- x DOVER POINT, HOUSE CUPOLA, (N.H.), 1908
- HILL WINDMILL, (N.H.), 1908
- x NEWINGTON WINDMILL (WHITE SQUARE BASE) (N.H.), 1908
- OLD WHARF, WEST CORNER OF SPILE, (N.H.), 1900, 1928
- POWDERHOUSE, (N.H.), 1842 *Lost*
- SOUTH CHIMNEY, HOUSE OFF KITTERY JUNCTION R.R. STATION, (ME.) 1900
- x "B" (N.H.), 1908
- BECK, (N.H.), 1842
- BOILING ROCK, (ME.), 1900
- x BROOKS, (ME.), 1851
- o BRIDGE, (ME.), 1900
- BADGERS ISLAND, (ME.), 1842
- CARROL HILL, (N.H.), 1842
- x "D" (N.H.), 1908
- DEPOT, (N.H.), 1842
- ELWYN (N.H.), 1842
- FREEMANS HILL, (N.H.), 1842
- GRETNA GREEN, (N.H.), 1842
- GREENLEAF (N.H.), 1842
- GLACIS, (N.H.), 1842
- GIBRALTAR, (ME.), 1842
- GREAT HILL, (ME.), 1842
- HILL ONE, (N.H.), 1908
- x NORTH, (N.H.), 1908
- POINT, (N.H.), 1908
- POVERTY HGT. (N.H.), 1842
- STURGEON HILL, (ME.), 1842
- WINDMILL ROCK, (N.H.), 1842

*x = removed from map manuscript at time of review  
 v = on map manuscript, but not on pub. map  
 (They were put on the vault copy at time  
 of registration)  
 o = never on map manuscript.*

In addition to the control mentioned above, there are eleven triangulation stations which lie just outside the limits of this Map Manuscript and which were used to control the orientation of photographs in this area. These stations are:

- OCEAN WAVE HOTEL CUPOLA, 1898, 1943
- PULPIT ROCK 142, 1941, 1943
- WENTWORTH HOTEL CUPOLA FLAGPOLE, 1941
- WENTWORTH HOTEL HIGHEST CUPOLA (OLD BLDGS) 1898, 1928
- NEW CASTLE 2, 1898, 1928
- PORTSMOUTH NAVY YARD PRISON, TALL BLACK CHIMNEY, 1908, 1928
- PORTSMOUTH NAVY YARD STANDPIPE, 1915
- FROST, 1908
- WENT, 1908
- STRATHAM HILL FIRE TOWER, 1941
- FROST POINT 144, 1941

26 CONTROL: (cont'd)

Field Inspection Points were established by the Field Inspection Party at well-defined points near three of the above mentioned triangulation stations. These Field Inspection Points are shown with small circles in orange ink on the reverse side of the Map Manuscript. They are:

F.I.P. FROST POINT 114, 1941  
F.I.P. FROST, 1908  
F.I.P. WENT, 1908

See paragraph No. 4 of the Field Inspection Report.

27 RADIAL PLOT:

The radial plot for this Map Manuscript is described in Section 4 of the descriptive report of the radial plots for Project CS-303, which has been submitted to the Washington Office.

28 DETAILING:

Wherever possible, center chambers of the photographs were used for detailing. In several cases, however, where a photograph was found to be out of scale, slightly tilted, or not clearly printed, and where an adjoining photograph was clear and in good scale, the latter was used for detailing. This was possible because of the great amount of photograph overlap in the area of the city of Portsmouth, N. H.

The Compilation Office was furnished with a Street Map of Portsmouth, N. H. prepared by the New Hampshire State Planning and Development Commission in 1943, scale 1"=500'. This map greatly expedited the detailing of Portsmouth proper. Disagreement between interpretation of detail on field inspection photographs and stereoscopic examination by the Compilation Office has been carefully noted on the discrepancy overlay. Drainage data as furnished by the Field Inspection Party, was carefully verified by use of the stereoscope, and found to be in good agreement. Some large industrial structures, most of the tanks, and several buildings at or close to the high-water line were not included in the field inspection data. Believing that they should be shown, the Compilation Office has interpreted and detailed these from the office photographs.

29 SUPPLEMENTAL DATA:

The following previous topographic surveys by the U. S. Coast & Geodetic Survey, cover portions of this Map Manuscript.

Survey No.	Dated	Scale
T-2375	1898-1901	1:10,000
T-2375a	1912	1:10,000

29 SUPPLEMENTAL DATA: (cont'd)

Survey No.	Dated	Scale
T-2511	1900-1909	1:10,000
T-2511a	1900-1909	1:10,000
T-2903	1908-1909	1:10,000
T-2904	1908	1:10,000
T-1047	1867	1:10,000
T-1047a	1912	1:10,000

Copies of the above surveys were not available to the Compilation Office.

A map of the area at Rye Harbor, N. H. was furnished the Compilation Office by the Field Inspection Party in order to show boundaries of State owned land in this vicinity. This map, dated August 1st, 1935, was prepared by the New Hampshire Highway Department, scale 1"=100'.

Also furnished by the Field Inspection Party to the Compilation Office as supplemental data are the following:

1. One black on white print of "Street Map of Portsmouth, N.H." prepared by the New Hampshire State Planning and Development Commission. Dated 1943, scale 1"=500'.
2. Blue print of "Profile - Boston and Maine R.R." numbered V3N.H.-P1. Horizontal scale 1"=4000'.
3. Blue print of "Profile - Boston and Maine R.R." numbered V4.5-P1. Horizontal scale 1"=4000'.

30 MEAN HIGH-WATER LINE:

The stage of tide of all the photographs used in the process of detailing this Map Manuscript was computed, and found to be just above Mean Low-Water.

The High-Water Line was interpreted by stereoscopic examination of the office photographs with the aid of the field inspection data, and detailed accordingly.

31 LOW-WATER AND SHOAL LINES:

Low-Water and shoal lines were delineated from data provided by the Field Inspection Party, plus careful stereoscopic examination of the Office photographs. Noted on the discrepancy overlay, are requests for Field Edit of low-water and shoal lines in specific areas.



19 form 5-24

Tidal BM (Dover Point)	1	C&GS BM	A-2
" "	2	"	Q-2
" "	3	"	C-2
" " (Portsmouth)	1	"	K-28
" "	2	"	Q-28
USGS BM	31	"	R-28
"	53	"	S-28
"		"	T-28
"		"	U-28
"		"	V-28
"		"	W-28
"		"	X-28

32 DETAILS OFFSHORE FROM THE HIGH-WATER LINE:

There were no details offshore from the high-water line indicated by the field inspection data, nor was any such detail visible on the office photographs.

33 WHARVES AND SHORE LINE STRUCTURES:

Wharves and other shore line structures such as piers, bulkheads and boathouses which have been identified by field inspection data were detailed and labeled on the Map Manuscript. All other piers, docks and shore line structures, not identified on the field inspection photographs and which were visible on the office photographs were also shown on the Map Manuscript.

34 LANDMARKS AND AIDS TO NAVIGATION:

The Compilation Office has not received any data regarding landmarks or aids to navigation in the area of this Map Manuscript.

See Field Inspection Report, Paragraph No. 11.

35 HYDROGRAPHIC CONTROL:

2 fm 524 - Topog.  
19 fm 524 B.M's.

See Paragraph No. 12 of the Field Inspection Report.

Two recoverable topographic stations are shown on this Map Manuscript. One, namely, PORTSMOUTH WATER TANK, 1943, was recommended by the Field Inspection Party. The other, ST. PATRICK'S CATHOLIC SCHOOL TOWER, 1943, was established by the Compilation Office. The Field Inspection Party furnished the Compilation Office a pricking card for PORTSMOUTH CATHOLIC CHURCH SPIRE, 1908, 1928. This identified location could not be held to the geographic position, and the Washington Office was so notified. The Compilation Office is submitting the radially plotted position of this field identified location as the recoverable topographic station ST. PATRICK'S CATHOLIC SCHOOL TOWER, 1943. Form No. 524 is being submitted for both of the recoverable topographic stations appearing on this Map Manuscript. Their value as partial future hydrographic control is probably limited, since they are situated so far back from extensive areas of tidal waters.

36 LANDING FIELDS AND AERONAUTICAL AIDS:

The Portsmouth Municipal Airport lies in this quadrangle. The airport has been under construction for some time and was nearing completion at the time the Field Inspection Report for this quadrangle was submitted.

The Compilation Office has no information or data regarding additional aeronautical aids within the area of this Map Manuscript.

See paragraph 11  
Field Edit Report

37 AZIMUTH REFERENCE MARKS:

The Compilation Office was not furnished any data regarding Azimuth Reference Marks in this quadrangle.

38 DISCREPANCY OVERLAY:

A discrepancy overlay has been prepared to accompany this Map Manuscript. On it are noted disagreements of interpretation with the field inspection data, and such notes as are deemed likely to be of assistance during the Field Edit. Also shown, are the names or numbers of all bench marks, for the use of the Baltimore Compilation Office in scaling the geographic position of these bench marks from the ozalid. In addition, a set of general notes has been included to aid in the interpretation of symbols and abbreviations shown on the Map Manuscript.

39 GEOGRAPHIC NAMES:

Geographic Names is the subject of a separate report for this Project. As of the date of completion of this Map Manuscript, this report has not been received by the Compilation Office. The geographic names shown on the Map Manuscript have been transferred from field inspection photographs.

40 HORIZONTAL ACCURACY:

The horizontal accuracy of this Map Manuscript is believed to be within the limits set forth, for well-defined and less well-defined points of detail, under Paragraph No. 23, of the instructions for War Mapping, Project CS-303, dated May 1st, 1943. *Report filed in Dis Photogrammetry General Files under "Sp" Reports.*

41 RECOMMENDATIONS FOR FUTURE SURVEYS:

The planimetry as presented on this Map Manuscript is believed to be complete, but is subject to Field Edit for corrections, additions, and deletions.

42 JUNCTIONS:

Satisfactory junctions have been made with the following map manuscripts:

To the north with Map Manuscript for Survey No. T-8527.  
To the south with Map Manuscript for Survey No. T-8534.  
To the east with Map Manuscript for Survey No. T-8532.  
To the west with Map Manuscript for Survey No. T-8530.

43 COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

Comparison was made with the U. S. Geological Survey 15 minute Quadrangle of Dover (Maine, New Hampshire), scale 1:62,500. Minute comparison was not possible, due to great difference in scale, but visual comparison of main roads and waterways showed good agreement.

No other existing topographic quadrangles of this area were available to the Compilation Office.

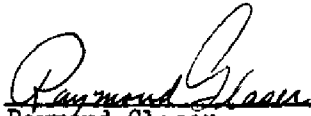
44 COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with the following U. S. Coast & Geodetic Survey Nautical Charts, portions of which partially cover the area of this Map Manuscript:

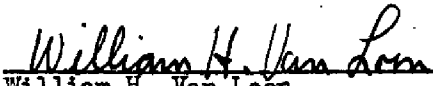
Chart No.	Title	State	Scale	Date
229	Portsmouth to Dover & Exeter (Me.&N.H.)		1:30,000	Nov. 1914
1206	Portsmouth to Cape Ann	N.H. & Mass.	1:80,000	May, 1941
1205	Cape Elizabeth to Portsmouth (Me. &N.H.)		1:80,000	Dec. 1930
329	Portsmouth Harbor	Me. & N. H.	1:10,000	Aug. 1923

Comparison of common detail with the above mentioned Nautical Charts, particularly main roads and shore line, showed exceptionally good, general agreement.


Respectfully submitted:  
December 24, 1943

  
Raymond Glaser  
Sr. Engineering Draftsman

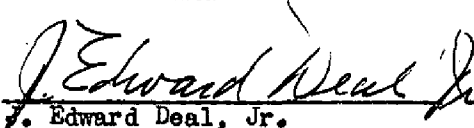
Map Manuscript, Discrepancy  
Overlay and Descriptive Re-  
port Reviewed by:

  
William H. Van Loon  
Pr. Photogrammetric Aid

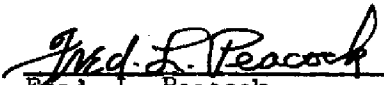
Compilation of Map Manuscript  
Supervised by:

  
Joseph Steinberg  
Asst. Photogrammetric Engineer

and

  
J. Edward Deal, Jr.  
Asst. Photogrammetric Engineer

Approved & Forwarded:  
December 28, 1943

  
Fred. L. Peacock  
Commander, C & G Survey  
Officer-in-Charge  
Baltimore Field Office

FIELD EDIT REPORT  
to accompany  
Quadrangle T-8531  
Project 303-C (south)

46. The field edit of this quadrangle consisted mainly of a visual inspection of the various topographical features as they were plotted on the compilation. The stereoscope was used in interpreting drainage corrections. Several roads have been added and several drainage errors have been corrected. Roads, bridges, streams and other features have been classified according to instructions and noted on the cloth backed copy of the compilation according to the following color scheme:

Additions ..... Black Ink  
Deletions ..... Green Ink  
Contours ..... Brown Ink  
Drainage ..... Blue Ink  
Boundaries ..... Purple Ink

Notes on the discrepancy overlay have been checked with red ink.

47. The compilation is believed to be complete and accurate as corrected by the field edit.

- \* 48. Accuracy tests, both vertical and horizontal, are the subjects of special reports on Project 303-C (south). *REVIEW*  
*(In files of the Review Section) Div Photogram. General Files*
11. One land mark for charts, Portsmouth Municipal Airport Beacon, was located and pricked on the compilation and submitted on the attached form 567.

*Small isolated contours were placed around positions Nos 34+60 as suggested in the Vertical Accuracy Test.*  
*The T-road intersection at 43-05-336.2 has been changed to meet the standard requirements for horizontal Accuracy - M.V.P.*  
*Submitted by*

*L. G. Chambers per J.R.H.*

L.G. Chambers  
Prin. Photo. Aid

Approved and Forwarded



F.L. Gallen  
Chief of Party

DIVISION OF CHARTS

SURVEYS BRANCH

REVIEW OF AIR PHOTOGRAPHIC SURVEY T-8531

PORTSMOUTH, N.H.-Me. QUADRANGLE

This quadrangle manuscript has been examined for completeness, accuracy, and conformity with the specifications. It is adequate for smooth drafting, reproduction and publication. Revisions found to be necessary in this office are discussed on the next page.

Horizontal and Vertical Accuracy

The map meets the required accuracy with respect to both tests.

Two small isolated contours were added to the map manuscript, as suggested in the vertical accuracy test report.

Previous Surveys

This manuscript has been compared with the following previous topographic surveys of this Bureau and other agencies. This map is satisfactory to supersede the previous surveys over the common area, in their common detail.

T-1047	1/10000	1867	T-2511	1/10000	1900
1047a	"	1912	2511a	"	1909
2375	"	1898-1901	2903	"	1908-9
2375a	"	1912	2904	"	1908
U.S.G.S.	DOVER, N.H.-ME		ed 1918, rep 1939		1/62500
U.S.E.	DOVER, N.H.-ME		1941		1/62500

		1206	1/80000	1941
		229	1/30000	1914/1944
<u>Comparison with Nautical Charts Nos.</u>		329	1/10000	1942
		1205	1/80000	1943

The manuscript has not been applied to the charts at the date of this review. The following comments are pertinent to the compilation and correction of nautical charts:

The comparable details between these charts and T-8531 are in good agreement

The following revisions of the map manuscript were found to be necessary and were accomplished as a part of this review:

This review report was compiled from notes made during the process of reviewing the manuscript.

State highway 103, in the northeastern part of the map, is the road nearer the shore rather than the road farther inland. (Field Edit data, and county highway map.) LTS Feb. 1948

Reviewed 25 March, 1944 By M. V. Parker *rev LTS*  
under direction of D. H. Benson

Inspected by B. G. Jones *B.G. Jones 3/48*

Examined and approved:

*[Signature]*  
Chief, ~~Survey~~ ~~Branch~~

*[Signature]*  
for Chief, Div. of Charts

K. T. Adams  
Chief, ~~Topography~~ ~~Section~~  
Div. of Photogrammetry

*[Signature]*  
Chief, Div. of Coastal Surveys



## RECORDS

Between January, 1942 and July, 1944, this Bureau completed 323 quadrangles. These maps have been published, or are in the process of being published on scales of 1:31,680 or 1:25,000. This series of quadrangles includes a land area of approximately 15,000 square miles. Incident to this work, a considerable volume of survey records and data has accumulated which will be filed for future reference. This material is filed as follows:

### Registered and Filed in the Vault.

Cloth-mounted copy of the published quadrangle.

Black and white cloth-mounted copy of the published quadrangle at 1:20,000 scale. This copy is filed to preserve original survey detail shown on the manuscript at 1:20,000 scale which may not have been shown on the published sheet. For woodland, refer to the published quadrangle for the finally adopted outlines.

Descriptive Report.

### Filed in the Photogrammetric Division.

Field inspection photographs.

Contoured photographs (on which planetable contouring work was performed.)

Field edit sheet.

Descriptions of recoverable topographic stations (Form 524), filed in Review Section.

Supplementary traverse and level records.

Field notes, computations, lists of positions, and tabulations of results of horizontal and vertical accuracy tests.

Reproduction proof.

Correction sheet (copy of quadrangle showing in red changes to be made when next printed.)

Check lists of work performed on each sheet in the Washington Office during review, drafting, edit, and reproduction.

Copies of specifications and all instructions to field parties and field offices.

Filed in Reproduction Branch.

Glass negatives of the color separation drawings.

Filed in the Library.

Special report on office work by B. G. Jones, 1944.

Season's report on field work by Commander F. L. Gallen, 1944.

Season's report on field work by Commander R. L. Schoppe, 1944.

Delivered to the Army Map Service in accordance with the contract.

Film negatives and film positives of the color separation drawings.

All color separation drawings.

A correction sheet consisting of a copy of the first edition of the quadrangle with notes in red indicating changes desirable at the next printing.

Remarks

Decisions

	Remarks	Decisions
1		USGB
2		"
3		Railway Guide
4		
5		
6		
7		
8		
9		
10		Road Maps
11		"
12		"
13		"
14		"
15		"
16		
17		430707
18		"
19		"
20		"
21		"
22		"
23		"
24		"
25		"
26		"
27		"

GEOGRAPHIC NAMES

Survey No. T-8531

PORTSMOUTH

1	Name on Survey	Sources									
		A	B	C	D	E	F	G	H	K	
✓	Maine			✓							1
✓	New Hampshire			✓							2
✓	Boston & Maine R.R.			✓							3
✓	Rockingham County	(N.H.)		✓							4
✓	Strafford County	"		✓							5
✓	York County	(Me.)		✓							6
	Towns of Rye, North Hampton, Greenland, Stratham, Portsmouth, Newington			✓							7
	Towns of Kittery, Eliot in Rockingham County			✓							8
	Towns of Durham and Dover in Strafford County.			✓							9
✓	U.S. No. 1	(also Lafayette Road)		✓							10
✓	U.S. No. 4 (N.H. No. 16)	(also - - -)		✓							11
✓	N.H. No. 101	(also South Side State Road)		✓							12
✓	N. H. No. 1A			✓							13
✓	N.H. 151	(also Post Road south of Greenland; Newington Road north of Greenland)		✓							14
✓	Maine No. 103			✓							15
											16
✓	Rye			✓							17
✓	Washington Road			✓							18
✓	West Rye			✓							19
✓	Rye Harbor Reservation			✓							20
✓	Wallis Sands Road			✓							21
✓	Tommy Lang Road			✓							22
✓	Ocean Road			✓							23
✓	Berrys Brook	(not Bellyhack Brook as on manuscript)		✓							24
✓	Langs Corner			✓							25
✓	Bellyhack Bog			✓							26
✓	Lafayette School			✓							27

Remarks.

Decisions

	Remarks.	Decisions
1		430707
2		"
3		"
4		"
5		"
6		"
7		"
8		"
9		"
10		"
11		"
12		"
13		"
14		"
15		"
16		"
17		"
18		"
19		"
20		"
21		"
22		"
23		"
24		"
25		"
26		"
27		"

GEOGRAPHIC NAMES

Survey No. T-8531

2	Name on Survey	Source										1
		A	B	C	D	E	F	G	H	K		
		On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List			
✓	<u>Beverly Hill</u>			✓								1
✓	<u>Beverly Hill Road</u>			✓								2
✓	<u>Sagamore Creek</u>			✓								3
✓	<u>Elwin Road</u>			✓								4
✓	<u>Elwin Brook</u>			✓								5
✓	<u>Sagamore Hill</u>			✓								6
✓	<u>Portsmouth Plains</u>			✓								7
✓	<u>Pannaway Manor</u>			✓								8
✓	<u>Harvey Brook</u>			✓								9
✓	<u>Harvey Lake</u>	(see manuscript; not on name sheet)										10
✓	<u>Rockingham Avenue</u>			✓								11
✓	<u>Hodgdon Brook</u>			✓								12
✓	<u>Deal Brook</u>			✓								13
✓	<u>Deal Pond</u>			✓								14
✓	<u>Lafayette Road</u>	(US. No. 1)		✓								15
✓	<u>Christian Shore</u>			✓								16
✓	<u>Portsmouth</u>			✓								17
✓	<u>Piscataqua River</u>			✓								18
✓	<u>South Mill Pond</u>			✓								19
✓	<u>North Mill Pond</u>			✓								20
✓	<u>Memorial Bridge</u>			✓								21
✓	<u>Badgers Island</u>			✓								22
✓	<u>Nobles Island</u>			✓								23
✓	<u>Spinney Creek</u>			✓								24
✓	<u>Kittery</u>			✓								25
✓	<u>Kittery Junction</u>	(not Kittery Depot)										26
✓	<u>Maine-New Hampshire Bridge</u>			✓								27

Remarks

3  
Decisions

1		430707
2		"
3		"
4		"
5		"
6		"
7	Pending with USGB: order both Eliot and South Eliot for this feature	431707
8		430707
9		431707
10		"
11		"
12		"
13		431708
14		"
15		"
16		"
17		"
18		"
19		"
20		"
21		"
22		"
23		"
24		"
25		"
26		"
27		"

GEOGRAPHIC NAMES

Survey No. T-8531

3	Name on Survey	<div style="display: flex; justify-content: space-between; font-size: small;"> <span>On Chart No.</span> <span>On previous survey No.</span> <span>On U. S. quadrangle Maps</span> <span>From local information</span> <span>On local Maps</span> <span>P. O. Guide or Map</span> <span>Rand McNelly Atlas</span> <span>U. S. Light List</span> </div>											
		A	B	C	D	E	F	G	H	K			
✓	Freemans Point			(residential area)									1
✓	Woodbury School			✓									2
✓	Wentworth Acres			✓									3
✓	Atlantic Heights			✓									4
✓	Fiscataqua			✓									5
	Portsmouth Reservoir			(only in text of Names Report, not on sheet)									6
				(see page 4, line 17)									
✓	Whiot			✓									7
✓	Spruce Creek			(only a very little of it here)									8
✓	Bartlett Hill			✓									9
✓	Bolt Hill			✓									10
✓	Tobey Creek Corner			✓									11
✓	Beach Road			<del>Not shown</del>									12
✓	Green Acre			✓									13
✓	Adlington Hill			✓									14
✓	Adlington Creek			✓									15
✓	Lanier Camp			(or on quad. to northward?)				X	not shown				16
✓	West Cove			✓									16
✓	Frankfort Island			✓									17
✓	Paul Brook			✓									18
✓	Rollins Farm			✓									19
✓	Pickering Brook			(to north)	✓								20
✓	Fox Point Road			✓									21
✓	Newington Station			✓									22
✓	Newington			✓									23
✓	General Sullivan Bridge			✓									24
✓	Dover Point			✓									25
✓	Little Bay			(as on chart 229)	✓								26
✓	Broad Cove			✓									27



Remarks

	Remarks	Decisions
1		431708
2		"
3		"
4		"
5		"
6		"
7		"
8		430708
9	Pending with USGB	"
10		"
11		"
12		"
13		"
14		"
15		"
16		"
17		"
18		"
19		"
20		"
21		"
22		"
23		"
24		"
25		"
26		"
27		"

GEOGRAPHIC NAMES

Survey No. T-8531

4	Name on Survey											
		A	B	C	D	E	F	G	H	K		
	Goat Island			(only part here)								1
	Fox Point			✓								2
	Hen Island			(see chart 229)								3
	Oyster River			(only its mouth on this quad.)								4
	Durham Point			✓								5
	Knight Hill			✓								6
	Knight Brook			✓								7
	Adams Point			✓								8
	Furber Strait			(see chart 229)								9
	Footman Islands			✓								10
	Welsh Cove			✓								11
	Thomas Point			✓								12
	Pickering Sand Bank			✓								13
	Goslin Road			✓								14
	Sherburne Road			✓								15
	Newington Road			(also in part State 151)								16
	Peverly Brook			(is Reservoir on this brook the reservoir on page No. 3. line 6?)								17
	Herods Cove			✓								18
	Nannie Island			(not Nanneys Island)								19
	Woodman Point			✓								20
	Great Bay			✓								21
	Fabvan Point			✓								22
	Swan Island			✓								23
	Hoyt Hill			✓								24
	Brown Hill			✓								25
	Portsmouth Municipal Airport			✓								26
	Portsmouth Country Club			✓								27

Remarks

	Remarks	Decisions
1		430708
2		"
3		"
4	Pending with USGB	"
5		"
6		"
7		"
8		"
9		"
10		"
11		"
12		"
13	Pending with USGB	"
14		"
15		"
16		"
17		"
18		"
19		"
20		"
21		"
22		"
23		"
24		"
25		"
26		"
27	Pending with USGB	"

GEOGRAPHIC NAMES

Survey No. T-3551

5	Name on Survey	Sources										
		A	B	C	D	E	F	G	H	K		
	Portsmouth Fairgrounds			X		not found						1
✓	Greenland Road			✓								2
✓	Fickering Brook (to south)			✓								3
✓	Great Bog			✓								4
✓	Greenland Station			✓								5
✓	Greenland			✓								6
✓	Packer Brook			✓								7
✓	Packer Bog			✓								8
✓	Heines Brook			✓								9
✓	Boston Post Road			✓			BOSTON	PAST RD				10
✓	Norton Brook			✓								11
✓	Breakfast Hill			✓								12
✓	Breakfast Hill Station			✓								13
✓	Barton Brook			✓								14
✓	Barton Hill			✓								15
✓	Winnicut Mills			✓								16
✓	Winnicut Mills Pond			✓								17
✓	Winnicut Road			✓								18
✓	Winniconic School		Belongs	X								19
✓	Winniconic Brook			✓								20
✓	Marsh Brook			✓								21
✓	Thompson Brook			✓								22
✓	Great Bay Road			✓								23
✓	Brackett Brook			✓								24
✓	South Side State Road			✓								25
✓	Weeks Point			✓								26
✓	Boyside Station			✓								27

Remarks

Decisions

	Remarks	Decisions
1		430708
2		"
3		"
4		"
5		"
6		"
7		"
8		
9		
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GEOGRAPHIC NAMES

Survey No. T- 8531

6	Name on Survey	On Chart No.		On previous survey No.		On U. S. quadrangle Maps		From local information		On local Maps		P. O. Guide or Map		Rand McNally Atlas		U. S. Light List	
		A	B	C	D	E	F	G	H	K							
✓	<u>Bayside Road</u>			✓													1
✓	<u>Foss Brook</u>			✓													2
✓	<u>Shaw Brook</u>			✓													3
✓	<u>Winnicut River</u>			✓													4
✓	<u>Tide Mill Road</u>			✓													5
✓	<u>Pierce Point</u>			✓													6
✓	<u>Whidden Farm Lots</u>			X													7
																	8
																	9
																	10
																	11
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(see manuscript) ✓ of N. H.

Names underlined in red approved  
by L. Heck on 4/18/44