

# 8534

Original

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-8534

#### LOCALITY

State New Hampshire & Massachusetts

General locality Hampton, N. H.

Locality Hampton Beach to Rye Beach

1943

#### CHIEF OF PARTY

Fred. L. Peacock

#### LIBRARY & ARCHIVES

DATE

Sept. 8 - 1948

B-1870-1 (1)++

8534

## DATA RECORD

T-8534

Quadrangle (II):

Hampton,  $7\frac{1}{2}$  minute

Field Office:

Sanford, Maine

Compilation Office:

Baltimore, Md.

Instructions dated (II III):

May 1, 1943

Letter dated July 9, 1943

Completed survey received in office: 5 Feb 1944

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 Photogram. Office Files

Reported to Nautical Chart Section:

Reviewed: 2/26/44

Applied to chart No.

Date:

Redrafting Completed: 10 April, 1944

Registered: 3 May, 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): PINE, 1941

Lat.:  $42^{\circ} 58' 54.091''$  1669.2 Long.:  $70^{\circ} 48' 36.895''$  836.0 Adjusted  
~~Unadjusted~~

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

X = 729,178.39 ft.

Y = 176,717.32 ft.

Military Grid Zone (VI)

'A'

also Special Harbor defense grid  
Portsmouth-Portland Area.

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
13507	4/13/43	10:09a.m.	1:10,000	Not used for detailing
13512	4/13/43	10:11a.m.	1:10,000	Not used for detailing
13513	4/13/43	10:13a.m.	1:10,000	Not used for detailing
13819 to 13825 Inc.	4/18/43	2:56p.m.	1:20,000	2.6' above M. L. W.

Tide from (III): Predicted tables, reference station, Portland, Maine with corrections for Hampton Harbor, N. H.

Mean Range: 8.3'

Spring Range: 9.6'

Camera: (Kind or source) U. S. Coast & Geodetic Survey Nine lens camera (focal length  $8\frac{1}{4}"$ )

Field Inspection by: E. Earl Nugent  
Contours by E. Earl Nugent

date: August, 1943  
" "

Field Edit by: L. G. Chambers

date: Jan-Feb., 1944

Date of Mean High-Water Line Location (III):

Same as date of photographs

Projection and Grids ruled by (III) B.R.C., F.L.T. date: August 21, 1943

" " " checked by: B.R.C. date: August 21, 1943

Control plotted by: Henry P. Eichert & John M. Reinoldi date: August 27 to August 29, 1943

Control checked by: William H. VanLoon date: August 30, 1943

Radial Plot by: Joseph Steinberg & J. Edward Deal, Jr. date: September, 1943

Detailed by: Harold R. Brooks

date: October 8 to December 24, 1943

Reviewed in compilation office by: Henry P. Eichert

date: December 20 to December 24, 1943

Elevations on Field Edit Sheet checked by: L. G. Chambers

date: Feb., 1944

STATISTICS (III)

Land Area (Sq. Statute Miles); 37

Shoreline (More than 200 meters to opposite shore); 18 Statute Miles

Shoreline (Less than 200 meters to opposite shore); 23 Statute Miles  
centerline of streams only

Number of Recoverable Topographic Stations established; 15 (5 of which are bench  
marks)

Number of Temporary Hydrographic Stations located by radial plot; None

Leveling (to control contours) - miles; 67 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. 303C, 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.

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, drive-ways, 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-8534  
PROJECT 303 (SOUTH)  
F.L. GALLEN, CHIEF OF PARTY

1. The area covered by this quadrangle lies along the coast and in general is comparatively flat. The northwest corner of the quadrangle is the highest. The elevation varies from sea level to a height of 105 feet. The eastern limits bound the Atlantic Ocean and in places are very swampy. Near the coast there are several large ponds and many swampy areas. The largest swampy area lies at the Hampton River entrance.

Hampton River, Little River and Nilus Brook contribute the primary drainage to the area. Other creeks and brooks, most of them named on the photograph, drain into these Rivers and make up the secondary drainage. Several intermittent swamp areas were found in this quadrangle near the Western limits.

The area consists of about half woods and half cleared land, the cleared land is poor for farming.

There are many well maintained roads in this quadrangle. The most important of these is Route 1 which runs North and South through the Quadrangle.

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. Recoverable Hydrographic Stations were established by a separate party.



13. There are no landing fields or aeronautical aids in this quadrangle.
14. All roads are classified according to instructions from the Army War College, dated November 11, 1942.
15. The dimensions and load limit 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<sup>\*</sup> are the subject of a separate report for this project. (In Benson's files)
18. Geographic Names is the subject of a separate report for this quadrangle. NH
19. The junctions to the west with quadrangle T-8533 and to the north with quadrangle T-8531 are on overlapping photographs. The junctions have been checked in the field and should be found correct.

The junctions to the South with the U.S.G.S. are in agreement.

This quadrangle bounds the Atlantic Ocean on the East.

Approved and forwarded

*F. L. Gallen*

F. L. Gallen  
Chief of Party

Submitted by,

*E. Earl Nugent* partly

E. Earl Nugent  
Engr. Aid

\* NH-Mass State Bdy  
Rockingham Co  
Essex Co  
Hampton Beach Reservation  
Hampton Town  
Hampton Falls Town  
N. Hampton Town  
Seabrook "  
Stratham "  
Rye "

### BUILDINGS

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

### ROUTES

BDY - Boundary  
P B - Pipe 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 - 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

HWL - Mean high water; East land  
LWL - Low water line  
LL - Marsh shore line  
M - Marsh  
MG - Marsh grass in water  
Dk - Dock  
Pier - Pier  
Se W - Sea Wall  
Bkhd - Bulkhead  
Jot - Jetty  
Dol - Dolphin  
Pile - Pile  
S - Sand  
Mud - Mud

Rk - Rock or Rocky  
Sty - Steep  
Cone - Concrete  
Wo - Wood  
Blf - Bluff  
Dune - Dune

### STREAMS AND PONDS

D - Largest ditch only  
DI - Small ditch (delete)  
IS - Intermittent stream  
PD - Probable drainage  
Cr - Creek  
Ca - Canal  
Cv - Culvert  
Lav - Lagoon  
Dan - Dam  
P - Pond  
XP - Intermittent pond

### VEGETATION

G - Grass  
Sw - Swamp  
Cy Sw - Cypress Swamp

# ROAD CLASSIFICATION FOR MAPS OF ALL SCALES

CLASS	LABEL	STRUCTURE	LOADING
1	Dependable hard-surface heavy duty road.	Concrete, asphaltic concrete bituminous Macadam, H-15 type structures.	Will bear heaviest loads with little maintenance.
2	Secondary, hard-surface all-weather road.	Surface-treated, oil-ed gravel, waterbound Macadam, structures generally lighter than H-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. Drained and graded.	Will bear light military loads in good weather.
4	Unimproved road	Graded and drained earth, with very light structure.	Generally unsuitable for military loads.
4U	Truck road	Woods roads, farm roads, etc. over which a standard gage 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 tick at point of change. Main roads have two lanes unless otherwise marked.

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	5 Tons	
A	50 tons	25 tons
B	25 tons	18 tons
C	18 tons	13 tons
D	10 tons	7 tons
E	8 tons	4 tons
F	Light vehicles only	

## Second Symbol

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

## Third Symbol

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

Fourth Symbol - Year of Classification

## WOODS AND BRUSH

### TYPE

D	Deciduous
E	Evergreen
Cy	Cypress

### CONCEALMENT

Z	Trees 10 feet or more in height, and thick enough when in foliage to conceal troop and vehicles.
Y	Brush and undergrowth thick enough to impede foot troops and conceal troops lying down.
X	Scattered trees not thick enough to conceal troops.
W	Scattered brush not thick enough to conceal troops.

### PHYSICAL FEATURES

HG	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 appears dark on photograph - becomes 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 eleven U. S. Coast and Geodetic Survey triangulation stations which fall within the limits of this Map Manuscript and were used as horizontal control for the establishment of photograph centers, secondary and detail points. These stations are:

- DARK CHURCH SPIRE, 1928 (St. Patricks Ch.) Ld mk
- ENTRANCE, 1928
- \* GREAT BOARS HEAD, 138, 1941
- \* GREAT BOARS HEAD STANDPIPE, 1917, r.1941 Ld mk
- \* HAMPTON BAPTIST CHURCH SPIRE, 1912, 1934
- \* HAMPTON CONGREGATIONAL CHURCH SPIRE, 1851
- \* HAMPTON FALLS CHURCH TOWER, 1850, 1934
- \* HAMPTON MUNICIPAL STANDPIPE, 1941 Ld mk
- \* PINE, 1941
- \* RYE LEDGE, 139, 1941
- \* WEST POST DRAW BRIDGE, 1928

\* Not on pub. map.

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

- F.I.P. ENTRANCE, 1928
- F.I.P. PINE, 1941
- F.I.P. RYE LEDGE

There are three additional triangulation stations to the south of this Map Manuscript which were used as extra control. They are:

- Atlantic Water Tank, 1928, r.1941
- Salisbury Marsh Mon., 1834, r.1928, 1934, 1936
- South Seabrook Church, 1912

A field inspection station was established at a point near one of the above triangulation stations. It is:

- F.I.P. Salisbury Marsh Mon.

## 27 RADIAL PLOT:

The radial plot for this Map Manuscript is described in Section 4 of the descriptive report of the radial plot for Project CS-303-C, South. (~~In Benson's file~~) *filed in the Division of Photogrammetry*

## 28 DETAILING:

Bench Marks (fm 524)  
Tidal BM No. 3 1928 1933  
E-2 " " " "  
F-2 " " " "  
G-2 " " " "  
HA-1 USGS 1932  
HA-2 " " " "  
NH-Mass Bdy Mon. No. 161 (fm 524)



28 DETAILING:

Sufficient field inspection data was furnished by the Field Inspection Party for the interpretation of the photographs used to detail this Map Manuscript. The shore line along the ocean front was only partially inspected. However, the tide lines were readily visible on most of the nine lens photographs and it was possible to detail the shore line to agree with the shore line as shown by the field inspection data. In some cases, the field inspection furnished actual measurements from well-defined image points to the high-water line. These measurements were scaled accurately and used in detailing. The shore line and rock jetty, on the southern side of Rye Harbor, which projects beyond the limits of this Map Manuscript have been detailed since there is no contemporary survey to the east of Survey No. T-8534.

The stereoscope was used in the interpretation of additional marsh area and drainage not shown by field inspection data.

At a few important road intersections, the Field Inspection Party failed to indicate any buildings on their inspection photographs. All the larger buildings in these areas were detailed as well as a few others scattered along the main highways which seemed to be important. Notes pertaining to this will be found on the overlay sheet.

Bridges, on which enough information was supplied by the Field Inspection Party, were coded by the compiler. The remainder were noted on the overlay. A blueprint showing a profile of the Boston & Maine Railroad was of considerable help in detailing bridges, grade crossings, overhead passes and underpasses.

29 SUPPLEMENTAL DATA:

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

Survey No.	Dated	Scale
T-835	1855	1:10,000
T-1023	1866	1:10,000
T-835a	1912	1:10,000
T-1023a	1912	1:10,000
T-1424	1928	1:10,000

These surveys were not available to the Compilation Office.

The Compilation Office was furnished the following:

- One copy - Profile, Boston and Maine Railroad  
(Station 2188+85 to Station 3039+87)
- One copy - Junction of U. S. Geological Survey with  
Map Manuscript, Survey No. T-8534
- \*One copy - Hampton River Inlet
- \*One set (15 sheets) - Hampton Beach & Highway Land Detail

photos used T-8534  
field edit sheet & photos.

29 SUPPLEMENTAL DATA: (cont'd)

\*These plans were field inspected for information pertaining to the Hampton Beach Reservation.

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 approximately two and one-half feet above Mean Low-Water.

The High-Water Line was delineated from data provided by the Field Inspection Party and careful stereoscopic examination of the office photographs.

31 LOW-WATER AND SHOAL LINES:

Low-water Lines have been detailed by office examination of the photographs, with the aid of the field inspection data.

No shoal lines were identified by the Field Inspection Party, but all shoal lines visible on the photographs were detailed and labeled.

32 DETAILS OFFSHORE FROM THE HIGH-WATER LINE:

Numerous sand bars at the junctions of the Hampton, Blackwater and Browns Rivers; a rock breakwater on the south side of the Hampton River Inlet, which is covered at high-water; and Rye Ledge, which is situated between Rye Beach and Bass Beach were detailed according to the field inspection data. Many rocks, especially those at the entrance to Hampton Harbor, which have not been furnished in the field inspection data, are visible on the office photographs. Rocks which were visible on several photographs have been radially plotted.

33 WHARVES AND SHORE LINE STRUCTURES:

The N. H. State wharf and channel are shown on the southern side of Hampton Harbor. Two piers are shown on the north side of the harbor. Two piers and a rock jetty are shown in Rye Harbor. Several seawalls and breakwaters are detailed along the coast, these have been labeled. All of the above were detailed according to field inspection data.



34 LANDMARKS AND AIDS TO NAVIGATION:

One aid to navigation in the vicinity of Hampton Harbor appears on the U. S. Coast & Geodetic Survey Charts Nos. 50, reissued August 1938 and 1106, reissued June 1938. The name and description of this aid to navigation is shown in the 1943 edition of the U. S. Coast Guard Light List of the Atlantic and Gulf Coasts of the United States. It is:

Hampton Harbor Lighted Bell Buoy, flashing white, 4 sec.

This light is not shown on the field inspection data and is not visible on the office photographs, it is, therefore, not shown on the Map Manuscript, but an approximate position and notation have been made on the discrepancy overlay.

35 HYDROGRAPHIC CONTROL:

There are ten recoverable topographic stations within the limits of this survey which may be used as partial control for future hydrographic surveys. They are:

- BAND, 1943
- CHIM, 1943
- ✓ COAST, 1943 (C.G. Tower) Ldmk
- COT, 1943
- FOX, 1943
- LIT, 1943
- NASH, 1943
- PIC, 1943
- ✓ POLE, 1943
- ✓ REF., 1943

• = Not on pub. map.  
✓ = On pub. map.

Descriptions and scaled geographic positions of these stations are submitted herewith on Form No. 524. (See also FP 26)

36 LANDING FIELDS AND AERONAUTICAL AIDS:

See Field Inspection Party Report, Paragraph No. 13.

(none)

37 DISCREPANCY OVERLAY:

A discrepancy overlay has been prepared to accompany this Map Manuscript. On it are notes calling attention to disagreements of field inspection data between two field inspection photographs which covered the same area. Other notes and requests for additional information needed to make this Map Manuscript complete are shown.

see Revised  
Report  
47° 53.1'  
70° 47.5'



37 DISCREPANCY OVERLAY: (cont'd)

Questions concerning correct interpretation, comments and notes such as are deemed likely to be of assistance during the Field Edit have been included. A set of general notes have been added to aid in the interpretation of symbols and abbreviations shown on the Map Manuscript.

38 GEOGRAPHIC NAMES:

The geographic names shown on this Map Manuscript have been labeled as shown on the field inspection photographs. The geographic name inspection for this Map Manuscript is the subject of a separate report which has not been furnished the Compilation Office as of the date of the completion of this Map Manuscript.

39 HORIZONTAL ACCURACY:

The horizontal accuracy of this Map Manuscript is believed to be within the limits set forth for well-defined points and less well-defined points of detail, in the instructions for Project CS-303, Paragraph No. 23, dated May 1, 1943.

40 RECOMMENDATIONS FOR FUTURE SURVEYS:

The planimetric detail, as presented on this Map Manuscript, is believed to be complete, including all field inspection data; and careful interpretation of the photographs where field inspection data was lacking. It is subject to field edit for corrections; additions and deletions.

41 JUNCTIONS:

The following junctions have been made with Survey No. T-8534:

To the north, a complete junction with Map Manuscript for Survey No. T-8531.

To the west, a complete junction with Map Manuscript for Survey No. T-8533.

To the east is the Atlantic Ocean.

On the south, are recent surveys by the U. S. Geological Survey. The Compilation Office was furnished a photographic enlarged reproduction of the area mapped by the U. S. Geological Survey along the junction with this Map Manuscript.

41 JUNCTIONS: (cont'd)

A comparison shows the junction between this Map Manuscript and the above tracing to be in excellent agreement except for a short distance between Road No. 1A and the Atlantic Ocean. The high-water line at the Atlantic Ocean is in disagreement with the interpretation of the high-water line as shown on the Map Manuscript. A road shown on the Map Manuscript in the area mentioned above is not shown on the U. S. Geological Survey data. Two contours in this same area are shown on the U. S. Geological Survey tracing, but not on the Map Manuscript. These two contours have not been indicated by the Field Inspection Party.

*See field edit report.*

42 REMARKS:

The description as prepared by the Field Inspection Party in the Field Inspection Report, adequately describes the area covered by this Map Manuscript.

44 COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

Because of scale differences, no accurate comparison of this Survey with the U. S. Geological Survey Quadrangle of this area is practicable. An approximate comparison shows common detail to be in generally fair agreement.

45 COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with U. S. Coast & Geodetic Survey Charts Nos. 50, scale 1:200,000, reissued August 1938; No. 1106, scale 1:350,000, reissued June 1938; and No. 1206, scale 1:80,000, issued May 1941. These Charts were in good agreement with the Map Manuscript for Survey T-8534.

Respectfully submitted:  
December 24, 1943

Harold R. Brooks.  
Harold R. Brooks  
Sr. Engineering Aid

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

Henry P. Eichert  
Henry P. Eichert  
Jr. Photogrammetric Eng.

Compilation of Map Manu-  
script Supervised by:

Joseph Steinberg  
Joseph Steinberg  
Asst. Photogrammetric Eng.

and

J. Edward Deal  
J. Edward Deal, Jr.  
Asst. Photogrammetric Eng.

Approved & Forwarded:  
December 28, 1943

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



FIELD EDIT REPORT  
To accompany  
QUADRANGLE T-8534  
Project 303-C (south)

46. The field edit of this quadrangle was accomplished by a visual inspection of the various topographical features as they were plotted on the compilation, with the planetable being used to cut in beacons and check discrepancies in drainage and contours which were noted on the overlay. Roads, streams, buildings and bridges were classified or added where they were omitted. Several geographic names were added. The field edit notes were applied to the cloth backed copy of the compilation according to the following color scheme:

Additions ..... Black  
Deletions ..... Green  
Drainage ..... Blue  
Boundaries and Geographic names ....Purple  
Notes on the discrepancy overlay were checked in red.

47. The compilation is believed to be complete and accurate as corrected by the field edit.
48. Accuracy test, both vertical and horizontal, are the subjects of special reports on Project 303-C (south). *Two vertical accuracy tests, both satisfactory, are discussed in special report in review unit file. \* The closest horizontal accuracy traverse was made on T-8534, north of T-8534, and was satisfactory.*
49. Junctions were checked along the south boundary of the quadrangle where it joins with the U.S.G.S. Newburyport East, Mass. quadrangle and the junctions along the south west edge of T-8534 agreed but the junctions on the south east border of T-8534 were not in agreement. The highwater line, as shown by the U.S.G.S. tracing of the Newburyport East quadrangle, was about 55 meters east of the Coast Survey position and the centerline of State Route 1-A was about 20 meters east of the position as shown on T-8534. The position of the highwater line was checked and found to be correct as shown on the Coast Survey compilation. The two contours mentioned in paragraph 41 of the descriptive report were ten foot contours and so were not indicated on the U.S. Coast and Geodetic Survey compilation. The tracing of the Newburyport East quadrangle will be submitted along with the report for quadrangle T-8533 when the junctions are checked in that area.
11. Two aids to navigation were located at the entrance to Hampton Harbor and the positions are submitted on the attached form 567. *Chk. letter No. 95 (1944)*

Submitted by:

L. G. Chambers *per J. L. G.*  
L.G. Chambers  
Prin. Photo. Aid

Approved and forwarded:

*F. L. Gallen*

F.L. Gallen,  
Chief of Party

*\* The T-road intersection at 42-59-1262.3m which was displaced 0.58 mm SW was due to an error in drafting. This has been rectified to meet the required accuracy.*

*The discrepancy was caused by incorrect detailing of the road on the G.S. sheet which shows a straight piece of road that should be slightly curved.*

DIVISION OF CHARTS

SURVEYS BRANCH

REVIEW OF AIR PHOTOGRAPHIC SURVEY T- 8534

HAMPTON, N. H. 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 MEETS THE NATIONAL STANDARD.

Horizontal Test No. 16 (eastern portion): Of the ten test points within the map area, two were displaced more than 0.5mm. Both were due to faulty detailing, and were corrected.

Vertical (C & D traverses): No contour in error more than one-half contour interval.

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.

T- 835	1/10000	1855	T-1023a	1/10000	1912
1023	"	1863	4424	"	1928
835a	"	1912			

U.S.G.S. Exeter, N. H.-Mass, 1/62500 ed 1934, rep 1943

Comparison with Nautical Charts Nos. 1206 1/80000 1941

See also paragraph 45 of Compilation Report.

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

Additions and changes from field edit data:

Numerous rocks (visible on photographs), with bearing above MLW.

Hampton Harbor North Beacon; Hampton Harbor South Beacon.

Several contours adjusted.

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This Review Report is written from notes made by the reviewer on a check list. May, 1948 LTS

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Reviewed 26 Feb. 1948 By M. V. Parker  
under direction of D. H. Benson M. V. Parker *per ds*

Inspected by B. G. Jones *B.G. Jones 8/48*

Examined and approved:

*[Signature]*  
Chief, Surveys Branch

*K.T. Adams*  
Chief, Div. of Charts *Photogrammetry*

*Asst.* *[Signature]*  
Chief, Topography Section  
*Nautical Chart Branch*

*C. J. Green*  
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.

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

This quadrangle, together with similar adjoining maps produced under Project C.S. 303, 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.

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, drive-ways, 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.

## Remarks

1

## Decisions

1		
2		
3		Railway Guide
4		Road Maps
5		"
6		"
7		
8		
9		
10		
11		
12		
13		428708
14		"
15		"
16		"
17		"
18		"
19		"
20		"
21		"
22		"
23		"
24		"
25	Not Camp Ground Creek	"
26		"
27		"



# GEOGRAPHIC NAMES

Survey No. T-8534

HAMPTON quadrangle

1

Name on Survey

On Chart No. A  
On previous survey No. B  
On U. S. quadrangle Maps C  
From local information D  
On local Maps E  
P. O. Guide or Map F  
Rand McNally Atlas G  
U. S. Light List H  
K

Name on Survey	A	B	C	D	E	F	G	H	K
<u>Rockingham County</u>									1
<u>Essex County</u>									2
<u>Boston and Maine R.R.</u>									3
<u>U.S. No. 1</u>									4
<u>Mass. No. 110</u>									5
<u>N.H. Nos. 1A, 101C, 101D, 101E, 107, 151</u>									6
									7
<u>Town of Seabrook</u>									8
<u>Town of Hampton Falls</u>									9
<u>Town of Hampton</u>									10
<u>Town of Rye</u>									11
<u>Town of Stratham</u>									12
<u>Town of North Hampton</u>									13
All of foregoing in N.H.:									14
									15
<u>Seabrook Beach</u>									16
<u>Blackwater River</u>									17
<u>Bound Rock</u>									18
<u>Beckmans Point</u>									19
									20
<u>Hampton Harbor Inlet</u>									21
<u>Locke Point</u>									22
<u>Mile Long Bridge</u>									23
<u>Hampton Harbor</u>									24
<u>Hampton River</u>									25
<u>Eastman Entrance Slough</u>									26
									27
<u>Browns River</u>									28
<u>Halftide Rock</u>									29
<u>Hunts Island Creek</u>									30
<u>Commons Island</u>									31
<u>Knowles Island</u>									32



T-8534

## Remarks

2

## Decisions

1		428708
2		"
3	Pending with USGB: apply instead of Race Rock	"
4	Pending with USGB: apply instead of Gills Rock	"
5		"
6		"
7		"
8		"
9		"
10		"
11		"
12		"
13		"
14	Pending with USGB: apply instead of Canes Brook	"
15		"
16		"
17		"
18		"
19		"
20		"
21	Not Depot	"
22		"
23		"
24		"
25		"
26		"
27		429708

# GEOGRAPHIC NAMES

Survey No. T-8534

2	Name on Survey	A	B	C	D	E	F	G	H	K	
	Mill Creek ✓	✓									1
	Mills Point ✓	✓									2
	Upper Gills Rock										3
	Lower Gills Rock ✓	✓									4
	N.H. State Wharf and Channel										5
	Riverside ✓	✓									6
	The Sands ✓	✓									7
	Walton Road ✓	✓									8
	Walton Landing ✓	✓									9
	Boyd School ✓	✓									10
	Beckmans Island ✓	✓									11
	Farm Dock ✓	✓									12
	Causeway Road ✓	✓									13
	Cains Brook ✓	✓									14
	Cains Mill Pond ✓	✓									15
	Shepherd Brook ✓	✓									16
	Smithtown ✓	✓									17
	Lafayette Road ✓	✓									18
	Folly Mill Road										19
	Depot Road ✓	✓									20
	Seabrook Station ✓	✓									21
	Farm Brook ✓	✓									22
	Old Camp Ground ✓	✓									23
	Seabrook ✓	✓									24
	Rocks Road ✓	✓									25
	Hunts Island ✓	✓									26
	Hampton Flats ✓	✓									27

M 234

## Remarks

## Decisions

	Remarks	Decisions
1		429708
2		"
3		"
4		"
5		"
6		"
7		"
8		"
9		"
10		"
11		"
12		"
13	Not Depot	"
14		"
15		"
16		"
17		"
18		"
19		"
20		"
21		"
22		"
23		"
24		"
25		"
26	Not Winnicunett Road	"
27		"

# GEOGRAPHIC NAMES

Survey No. T-8534

3

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	
Swains Creek ✓	✓								1
Robbins Point ✓	✓								2
The Rocks ✓	✓								3
Pauls Mistake Creek —									4
Dearborn Academy ✓	✓								5
Dodge Ponds ✓	✓								6
Hampton Falls ✓	✓	(falls)							7
Brimers Lane ✓	✓								8
Hampton Falls ✓	✓	(village)							9
Depot Avenue ✓	✓								10
Town Hall Corner ✓	✓								11
Hampton Falls River ✓	✓								12
Hampton Falls Station ✓	✓								13
Taylor River ✓	✓								14
Hampton Landing ✓	✓								15
Nudds Canal ✓	✓								16
Blind Creek ✓	✓								17
Tide Mill Creek ✓	✓								18
The Willows ✓	✓								19
State Hampton/Beach Reservation ✓	✓								20
Hampton Beach ✓	✓								21
Eastman Point ✓	✓	(settlement)							22
Hampton State Park ✓	✓								23
Tide Mill Road ✓	✓								24
The Plantation ✓	✓								25
Winniconic Road ✓	✓								26
Elmwood Corners ✓	✓								27

T-8534

Remarks

4

Decisions

1	Pending with USGB: use this instead of Great Pond	429708
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	Pending with USGB: apply instead of Cuse Hill	"
27		"

# GEOGRAPHIC NAMES

Survey No. T-8534

4	Name on Survey	A	B	C	D	E	F	G	H	K	
	Meadow Pond	✓	✓								1
	Nilus Brook	✓	✓								2
	High Street	✓	✓								3
	Old Mill Pond	✓	✓								4
	North Side Road	✓	✓								5
	The Five Corners	✓	✓								6
	Mace Road	✓	✓								7
	Moulton Road	✓	✓								8
	Hampton	✓	✓								9
	Anns Lane Road	✓	(see manuscript for location: not on names sheet)								10
	Landing Road	✓	✓								11
	Landing Brook	✓	✓								12
	Drakes River	✓	✓								13
	Kenney Brook	✓	✓								14
	Grapevine Run	✓	✓								15
	Guinea Road	✓	✓								16
	Drakeside Road	✓	✓								17
	Old River	✓	✓								18
	Coffin Pond	✓	✓								19
	Coffin Hill	✓	✓								20
	Car Barn Pond	✓	✓								21
	Car Barn Hill	✓	✓								22
	Line Swamp	✓	✓								23
	North Hampton Road	✓	✓								24
	South Road	✓	✓								25
	Keene Hill	✓	✓								26
	Cemetary Corners	✓	✓								27

M 234

	Remarks	5 Decisions
1		429708
2		"
3		"
4		"
5		"
6		"
7		"
8		"
9		"
10		"
11		"
12		"
13		"
14		"
15		"
16		"
17		430708
18		429708
19		"
20		"
21		"
22	Pending with USGB: apply instead of Bramble Hill	"
23		"
24		"
25		"
26		"
27		429707



# GEOGRAPHIC NAMES

Survey No. T-8534

5	Name on Survey	A	B	C	D	E	F	G	H	K		
	Fogg Corner	✓	✓								1	
	Woodland Road	✓	✓								2	
	Lamprey Pond	✓	(see manuscript: not on Names Sheet)									3
	Atlantic Avenue	✓	✓								4	
	Little River School	✓	✓								5	
	Oliver Brook	✓	✓								6	
	Mill Pond	✓	✓								7	
	Mill Road	✓	✓								8	
	North Brook	✓	✓								9	
	North Hampton	✓	✓								10	
	Rocky Ledge	✓	(hill)									11
	Drake Hill	✓	✓								12	
	North Road	✓	✓								13	
	Cow Lane	✓	✓								14	
	North Hampton Center	✓	✓								15	
	Hobbs Road	✓	✓								16	
	Winnicut River	✓	✓								17	
	Cornelius Brook	✓	✓								18	
	<del>Boston Post Road</del> (H54)	✓	✓								19	
	<del>Pine Hill Brook</del>	✓	✓								20	
	Loverine Road	✓	✓								21	
	Winnicut Road	✓	✓								22	
	Brumley Hill	✓	✓								23	
	Walnut Avenue	✓	✓								24	
	Cherry Road	✓	✓								25	
	Knowles Pond	✓	✓								26	
	New Road	✓	✓								27	
	West Road	✓	✓								28	

M 234

T-8534

Remarks

6 Decisions

1		429707
2		"
3		"
4		"
5		"
6		"
7		"
8		"
9		"
10		"
11		"
12		"
13		"
14		"
15		"
16		"
17		"
18		"
19		"
20		"
21		"
22	Not Fox Head Point, per recent USGB decision	" USGB
23		"
24		"
25		"
26		"
27		"



# GEOGRAPHIC NAMES

Survey No. T-8534

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	
Bailey Brook	✓								1
Garland Road	✓								2
Groves Road	✓								3
Cable Road	✓	(road)							4
Cable Road	✓	(settlement)							5
Straw Point	✓								6
South School	✓								7
Perkins Road	✓								8
Central Road	✓								9
Locke Pond	✓								10
Love Lane	✓								11
Burke Pond	✓								12
Jenness Beach	✓								13
Eel Pond	✓								14
Rye Beach	✓								15
Rye Ledge	✓								16
Bass Beach	✓								17
Stoneleigh College for Women (see manuscript: not on Names Sheet)	✓								18
Hampton Golf Course	✓								19
Philbrick Road Pond	✓								20
Chapel Road	✓								21
Fox Hill Point	✓								22
Chapel Brook	✓								23
Maple Road	✓								24
Little River	✓								25
Little River Swamp	✓								26
Little Boars Head	✓								27



T-8534

Remarks

7

Decisions

1		429707
2		"
3		"
4		"
5		"
6		"
7		
8		
9		
10		
11		
12		428708
13		429708
14		Chart 1206
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		



# GEOGRAPHIC NAMES

Survey No. T-8534

7

Name on Survey

	A	B	C	D	E	F	G	H	K	
Garland Brook	✓									1
The Breach	✓									2
Smith Colony	✓	✓								3
Plaice Cove	✓	✓	(settlement)							4
North Beach	✓	✓								5
Great Boars Head	✓									6
Rye Harbor	✓	(water)								7
										8
Every name reported by the field party's report on names of the area, or found on the manuscript, has been listed above. Probably some of the features in the marshy areas may have been changed, or else some features may be too small to justify naming.										9
										10
										11
										12
Beckmans Pond										13
North Road										14
Thomas Rock										15
										16
										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

Names underlined in red approved by L. Heck on 3/14/44