8189 Ingmal

Diag'd on Diag. Ch. No.1110

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

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Type of Survey	Air Photographic Topographic						
	· · · · · · · · · · · · · · · · · · ·						
Field No.	Office No. T-8189						
	LOCALITY						
State	North Carolina						
General locality	Columbus County, N. C.						
Locality	Nakina, N. C.						
	· ·						
· · · · •	1943						
in garantus.	CHIEF OF PARTY						
	Fred. L. Peacock						
LIBRARY & ARCHIVES							
•							
DATE	March 14,1945						

B-1870-1 (1)

DATA RECORD

T-8189

Quadrangle (II): Nakina, 75 minute quadrangle Project No. (II): CS 284

Field Office:

Chief of Party: F. L. Gallen

Myrtle Beach, South Carolina

Compilation Office:

Chief of Party: Fred. L. Peacock

Baltimore, Maryland

Instructions dated (II III): July 15, Oct. 19, Oct. 23, Oct. 27, 1942 Copy filed in Descriptive

Report No. T-

Completed survey received in office: 6/25/43

Reported to Nautical Chart Section: 6/26/43

Reviewed: Lyot. 1,1943 Applied to chart No.

Date:

Redrafting Completed: Nov. 17,1943

Registered:

Published: 1943

Compilation Scale: 1:20,000

Published Scale: 1:3/680

Scale Factor (III): None

Geographic Datum (III): N.A. 1927 Datum Plane (III): Mean Sea Level

Reference Station (III): Ward, 1942

Lat.: 34° 11' 20.671" 636.9(1211.8)m. Long : 78° 44' 12.901" 330.3(1206.0)m.

Adjusted AMARA POR ERECT

State Plane Coordinates (VI):

x =

North (arolina (single zone) Y =
Plune coordinates for reference st

Military Grid Zone (VI)

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
8174 - 8177 (incl 8205 -8207 (incl 8181 - 8184 (incl 8219 - 8220 (incl	.) 4/2/42 .) 4/1/42	2:23 P. M. 11:23 A. M. 2:44 P. M. No data	1:20,000 1:20,000 1:20,000 1:20,000	There are no navi- gable waters within the limits of this $7\frac{1}{2}$ min. quadrangle

Tide from (III): No tide computation necessary

Mean Range:

Spring Range:

Camera: (Kind or source) U. S. Coast & Geodetic Survey nine lens

camera (Focal length $8\frac{1}{4}$ ")

Contouring and

Field Inspection/by: L. G. Chambers

date: Dec. 1942

Jan. 1943

Field Edit by: D. Flippo

date: Aug. 1943

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

JONE.

Projection and Grids ruled by (III) Washington Office date: Jan. 22, 1943

" " checked by: Washington Office date: Jan. 22, 1943

Control plotted by: Henry P. Eichert date: Mar. 13, 1943

Control checked by: Joseph Steinberg date: Mar. 15, 1943

Radial Plot by: Joseph Steinberg and J. Edward Deal, Jr. date: 3/19-31/43

Detailed by: M. Joy Turner date: 4/15 - 6/24/43

Reviewed in compilation office by: Henry P. Eichert date: 6/22-24/43

Elevations on Field Edit Sheet checked by: D. Flippo

date: 8/3/43

STATISTICS (III)

Land Area (Sq. Statute Miles): 61

Shoreline (More than 200 meters to opposite shore): None

Shoreline (Less than 200 meters to opposite shore): None

-Number of Recoverable Topographic Stations established:
4 Azimuth Reference Marks

Number of Temporary Hydrographic Stations located by radial plot: None

statute
Leveling (to control contours) -/miles: 57

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:

FIELD INSPECTION REPORT QUADRANGLE T-8189 Project CS-284 F. L. Gallen, Chief of Party

1. The area covered by this Quadrangle is generally poorly developed, with farms on the higher ground; the low ground, comprising about 75 percent of the total area, being covered by dense growths of trees, principally gum and cypress in the swamps, and pine and oak on the higher ground.

Drainage for this area follows a well defined pattern. White Marsh, near the north limits, flows southeast into the Waccamaw River, and drains a small area to the east and south. Beaver Dam Swamp carries the heaviest load of the drainage, and it enters the quadrangle in the northwest corner and flows southeast into the Waccamaw River. Gum Swamp is a tributary of Beaver Dam Swamp and drains the central western side of the area.

The northwest corner of the area is comparatively hilly and is well drained, while the balance of the quadrangle is low and poorly drained. Numerous ditches appear in all cultivated areas and the most important of these are shown.

Several bays, which are flat swampy areas, appear in the central and southeastern portions of the quadrangle and the drainage from them has been delineated on the photographs.

- 2. The field inspection is believed to be complete except for some small items, erroneously omitted, which may be noted in the field edit and the classification of bridges, which will also be added at that time.
- 3. Dark tones on the photographs, if they appear on or near high ground, generally indicate pine trees, but they may also indicate heavy brush in swampy ground. Slightly lighter tones indicate deciduous trees as in swamps.
- 4. The horizontal control for this quadrangle was established by the U. S. C. and G. S. and all stations were recovered and pricked on photographs which were submitted to the Baltimore Office in December, 1942.
- 5. First order bench marks were established in this quadrangle by the U. S. C. and G. S. in 1942, all of which were recovered and pricked on the photographs and submitted to the Baltimore Office in December, 1942. One U. S. G. S. bench mark "Beaver 1942" was recovered and pricked on the photograph.

Supplementary level lines were run over enough roads in this quadrangle to provide sufficient control for the planetable party, and elevations were established on top of stakes in the case of T. B. M.'s, and at the base of stakes and the center lines of bridges. The stakes were established at identifiable points on the photographs and were later checked by the topographic party. All of the level lines were tied into

permanently marked bench marks, and where the closure was less than 0.30 foot, no adjustment was made. Lines checking from 0.30 to 1.00 foot were adjusted. Lines which checked over 1.00 foot were rerun.

- 6. Contouring was accomplished by a four-man planetable party using the regular equipment. All contouring was done directly on the photographs and orientation was obtained from identifiable points on the photograph. A new variable scale steel foot bar was used on traverses to compensate for differences in photographic scale. Short hand level lines were run into swamps and other areas which were too density wooded for planetable methods, and distances were paced to the shots, or the elevations were obtained to well defined points on thephotograph. Streams were located principally by inspection of the photograph, and where this was not practicable, were paced or taped in.
- 7. to 13. incl. do not apply to this area.
- 14. Roads were classified according to instructions, a copy of which is attached.
- 15. Classification of bridges and culverts was not done on the photographs, although they have been indicated. Classification will be done on the field edit sheet.
- 16. All buildings to be shown on the manuscript are circled in red. Dwellings are not labeled. Barns, Churches, stores, and other buildings are labeled. Any building not circled is to be deleted.
- 17. This quadrangle lies entirely within Columbus County, North Carolina, and only political boundaries apply, which will be added during field edit.
- 18. Geographic Names for this quadrangle are the subject of a special report by A. J. Wraight in Project CS-284.
- 19. Junctions with quadrangle T-8195 on the south have been made and checked in the field.

Junctions with Quadrangle T-8188 on the east have been made and checked.

There have been no surveys of the areas to the north and to the west of this Quadrangle.

Respectfully submitted,

L. G. CHAMBERS,

Prin. Photogrammatric Aid.

Annated

F. L. Gallen, Chief of Party.

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                  3 LANE
                                            Change in lanes shown by tick at point of charge. Main roads have two lanes
                                           unless otherwise marketi. - 254
                                                                                                                                                                                                   Pioci, to dock - W.
                                           Designate private roads by the letter "P" after the road classifications.
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                Show road classification parallel to road being classified, thus: Rd. 3, Rd. 1021000 AU. Rd. 40P, etc. 67031 a 1 730 Canal Can
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ABEREVIATIONS FOR FIELD INSPECTION PROJECTS 284 and 285

1942

	OMOTIVES TOUTES & DETECT
ROADS:	STREAMS, PONDS & BRIDGES
, W - Width (feet between shoulders	Dch - Ditch
when over 30 feet. https://www.	IS - Intermittent stream
13 - U.S. Highway No. 13	Lish Licopapie orginaRe
13 - State Highway No. 13	Cr - Creek
13 - County Highway No. 13	Ca - Canal
Pr - Private road	Brg - Bridge (capacity & clearance)
OP - Overpass SELLACE LIA TO SEAM FOR CAM	-Giz
UP - Underpass	Lev - Leves
	Dom - Dom
REGISTER Bailroad track, state number of tracks.	P Pond local nagio locate
Concrete, asphaltic con- Fill bear harviset	JP Internation Pond
erste bituninous macadam, louds with	VEGETATION OUTY TO TRATECT
Z.comTrees:10 feet or more in height	VEGETATION
and thick enough when in foliage	C - Cultivation
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vKasei kuch and undargrowth thick enough	.h. or Talifeev-Ils
ile to impede footatroops end to come	BULLDINGS
-nion ticeal troops lying down other vile	d - Dwelling
Y - Scattered trees not thick enough it	b - barn
to conceal troops.	Ck H- Large chicken house
sawii-uscattered brush not thick enough	Bo HO Boat house - ca of I 5
if appol togonceal troops, Istree an office	Ch - Church (give name)
Decided a serior of the serior	Ct Ho-Court House (give name)
E - Evergreen .340 ; the limit of	P 0 - Post office (give name)
C - Cypress	Sch - School (give name)
oishorminetiforomod darco beniara ban boarra	Hos - Hospital (give name)
	RR sta- Railroad station
The state of the s	Sto - Country store or gas sta.
LWL - low.water line	P sta- Power station
THE THE PARTY AND THE PARTY AN	
M - Marsh inshore dimits: , assoc 2000.	LANDMARKS Date to 127 UA
MW - Marsh grassingates in the contract of the	FT - Fire tower
ard tage vehicle can be of mas elected against	
Pier - Pier . govida	T T - Transmission Tower
SE W - Seawall	RT - Radio tower or mast
The state of the s	Air Bn- Airway beacon
Jet - Jetty (.pto	Bn - Non lighted aid to navigation
Dol - Dolphin	Lt - Lighted aid to navigation
ass indicated by moted along ronal Re-elimina	effet lovetank grow dith about little &
benef Sout Sand cata rocca atam og lane	TIKE RISA THE GLOAD OF THE COLUMN TO THE COLUMN THE COL
Mid - Mid	Stk - Stacky chieratic sacing
Rk - Rock or Rocky	S P - Standpipe
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at to moved baing classifion, this dolling of the	Force Fence Com - Come tory
Rif - Bluff	Sty F - Stone Tence Ty Co. County
Dune - Dune	F B - Fire Break Bdy - Boundary
Mine - bonie	Hdg - Hedge N.C North Carolina
	Park -Park S.C South Carolina
,	

Compilation reports. ARP, 1942 WARD, 1942

CONTROL: 26

Five U. C. Coast and Geodetic Survey triangulation stations lie within the limits of this map manuscript. They are:

> NAKINA, 1942 NAKINA FIRE TOWER, 1942 SCHULKENS, 1942

At well defined points near all of the above triangulation stations, with the exception of NAKINA FIRE TOWER, 1942, the field party established F. I. stations. These F. I. stations are shown with an orange circle on the glossy side of the map manuscript.

Three U. S. Coast & Geodetic Survey triangulation stations, BEAVER, 1942, IRON HILL, 1933, and DOCK, 1942, lie just outside the limits of this map manuscript.

In addition, six U. S. Coast & Geodetic Survey triangulation stations lie within six minutes to the north of the limits of this map manuscript. They are:

> BRUNSWICK, WATER TANK, SLEDGE LUMBER CO., 1942 HOPE, 1942 WHITEVILLE, 1942 WHITEVILLE M. E. CHURCH STEEPLE, 1942 WHITEVILLE MUNICIPAL WATER TANK, 1942 HALLS, 1942

The field party also established F. I. stations for four of the aforementioned stations, namely, BEAVER, 1942, DOCK, 1942, HOPE, 1942, and WHITEVILLE, 1942.

All these stations were used in the orientation of photographs of the area of this map manuscript and in the establishment of secondary control points but only those stations within the detail limits or immediately adjacent thereto were used for establishing detail points.

RADIAL PLOT:

The radial plot for this map manuscript is described in Section 2 of the descriptive report of the radial plots for Projects CS 275 and CS 284, which has been submitted. Filed in During of Photogrammetry.

DETAILING:

All detail was obtained from the nine lens office photographs using the center chambers as much as possible. The field inspection was generally satisfactory for the entire area.

Drainage and the limits of swamps, as shown on the field inspection photographs, were verified by stereoscopic examination of the photographs and found to be in good agreement. The field party's interpretation was accepted.

29 SUPPLEMENTAL DATA:

No previous surveys covering the area of this map manuscript are available to this compilation office. A copy of the Columbus County, North Carolina, State Highway and Public Works Commission map was furnished by the field party to show geographic names in the area.

37 GEOGRAPHIC NAMES:

A list of undisputed, disputed and recommended geographic names which appear on this map manuscript is attached to this descriptive report.

38 DISCREPANCY OVERLAY:

A discrepancy overlay has been prepared to accompany this map manuscript. On it are notes calling attention of the field edit party to omissions in their road classifications, the indication of probable bridges or culverts and such other notes as are deemed likely to be of assistance during the field edit. The numbers of all Bench Marks are shown for the use of the Baltimore Field Office in scaling their geographic positions from the red line print. A set of general notes on this discrepancy overlay will serve as a guide in the interpretation of symbols shown on the map manuscript.

39 HORIZONTAL ACCURACY:

Horizontal accuracy of the location of well-defined and less well-defined points of detail is believed to be within the limits as set forth in paragraph 59 of the instructions for Project CS-284, dated July 15, 1942.

40 RECOMMENDATION 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.

41 · JUNCTIONS:

Complete, satisfactory junctions have been made with the following quadrangles:

To the East - Survey No. T-8188 To the South - Survey No. T-8195

There are no contemporary surveys bordering Survey No. T-8189 either to the North or to the West available to the compilation office.

42 REMARKS:

The field inspection party has submitted in their field report, an adequate description of the area covered by this map manuscript.

42 REMARKS: (Cont'd)

This field report is attached to this compilation office descriptive report.

43 AZIMUTH REFERENCE MARKS:

Four azimuth reference marks, namely, ARP AZIMUTH, 1942, WARD AZIMUTH, 1942, SCHULKENS AZIMUTH, 1942, and NAKINA AZIMUTH, 1942, have been established by radial resections and their descriptions and scaled geographic positions are being submitted on forms No. 524 accompanying this descriptive report.

44 COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

No topographic quadrangles in this area were available to the compilation office. Comparison was made, nevertheless, with the Columbus County, North Carolina State Highway and Public Works Commission Map, scale 1" to the mile. In general, agreement of common detail was good. Lack of minute detail on the county map made only a limited comparison possible.

45 COMPARISON WITH NAUTICAL CHARTS:

There are no nautical charts which cover the area of this map manuscript.

Respectfully submitted, June 24, 1943

1. Joy/Turner

Asst. Phylogrammetric Aid

Map manuscript, discrepancy overlay, and descriptive report, Reviewed by,

Henry P. Zichen

Jr. Photogrammetric Engineer

Compilation of map manuscript Supervised by,

Joseph Steinberg

Asst. Photogrammetric Engineer

and

Asst. Photogrammetric Engineer

Approved & Forwarded, June 25, 1943

Fred. L. Peacock

Commander, C & G Survey

Officer in Charge

Baltimore Field Office

GEOGRAPHIC NAMES

Undisputed

Antioch Beaverdam Swamp Big Pond Branch Boggy Branch Cattail Bay Cow Bog Branch Cypress Branch Cypress Creek Cypress Creek Bay Cypress Creek Bridges Lebanon Branch Lebanon Road Loggy Branch Mark Pine Mark Pine Road Mill Branch Swamp Mollie Mollie Swamp Nakina Nakina Road Needmore

Nellie Ford Bridge Nellie Ford Road Old Dock Road Old Tram Road -Peniten Bridges Peniten Canal Pleasant Plains Pleasant Plains Bridge Pole Bridge Pole Bridge Crossing Register Branch Sand Pit Sand Pit Branch Sand Pit Bridge Simmons Bay Simmons Bay Bridge Stanley Ford Bridge Stanley Ford Road Tabor City Road Mard Corner White Marsh "Thite's Crossing

Williams Road

GEOGRAPHIC NAMES

Disputed

Recommended

Camp Bay

Cypress Creek

Monie Swamp

Disputed

Cattail Bay

Cypress Branch

Monte Swamp) Moony Swamp)

	GEOGRAPHIC NAMES		/	No. Co. No. Co.	D. Wash	note /	/	S. Caide	Was Ville of Man San San San San San San San San San S	ALIOS /	5/
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	1 Name on Survey	A	B	/ c	D	E	F	G	H	K	_
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	Williams Twp	V				J.					3
	State Highway No. 130	v									4 .
									· ·		5
	Simmons Bay	(sett	lement	V							6
	Simmons Bay Bridge	V									7
	Cow Bog Branch	v									8
	Peniten Bridges										9
	Peniten Canal	ı				7					10
	Old Dock Road	r									11
	Sand Pit Bay	ı									12
	Sand Pit Branch										13
	Sand Pit Bridge	V									14
	Nakina	v									15
	Nakina Road	v									16
	Nakina Forest Fire Look	out To	wer								17
**	Ward Corner		V	14.74 1.45							18
	Pole Bridge Crossing										19
	Pole Bridge		ı								20
	Cattail Bay		L								21
	Cemp Bay		-							+	22
	Mark Pine Road		v								23
	Cypress Creek	(sett	lement) .							24
	Stanley Ford Road	v									25
	Boggy Branch Bridge	V									26
	Monie Swamp	V									27
											M 234

S. Mode See Road Wester Wiles Q.O. Giride of Moo V. Interior **GEOGRAPHIC NAMES** HOU HOUR SHOP Or local Made T-8189 Survey No. 2 Ε G Name on Survey В Monie Ford (Abd.) 1 t 2 Boggy Branch 3 Beaverdam Swamp v Mill Branch Swamp Needmore 5 Loggy Branch 6 7 Stanley Ford Bridge Tabor City Road Mollie Swamp 9 Mollie 10 Williams Road 11 Williams Branch 12 Lebanon Road 13 Lebanon Branch 14 15 Nellie Ford Bridge Nellie Ford Road 16 Big Pond Branch 17 Antioch 18 Whites Crossing 19 Big Bay ı 20 Pleasant Plains 21 Piessant Plains Bridge 22 Register Branch 23 Mark Pine 24 Cypress C eek Bay 25 Cypress Creek 26 Cypress Creek Bridges 27 м 234

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e. Gilde of Mass J.S. Latt. List **GEOGRAPHIC NAMES** FISH TOTAL STORY Orlocal Modes Survey No. T=8189Ε Name on Survey no⊦ Shown Mark Pine Bay V 2 Cypress Branch White Marsh 3 Simmons Bay Creek Old Tram Road Name: underlijed in relianprovi 6 by L = Hec 4 on 10/4/431 7 8 10 11 12 13 14 15 16 17 18 19 20 21 22 24 25 26 27 M 234

FIELD EDIT REPORT T-8189 PROJECT 284

46. The field edit was done by visual inspection, making all additions and deletions on the map manuscript, and transferring all the detail to a smooth copy while inking.

The following color scheme was used:

FEATURES COLORS

Additions, bench marks, wye level elevations and crosses RED

Deletions GREEN

Drainage features BLUE

Contours BROWN

Civil Boundaries VIOLET

- 47. The position and amount of detail on this map manuscript is believed to be complete and adequate.
- 48. A horizontal accuracy test was run in this quad.

Vertical accuracy tests are the subject of a special report for Project 284. Jied in During of Photogrammetry

Submitted by

Donald G. Flippo putity,
Engineering Aid

Approved and Forwarded

F. L. Gallen Chief of Party

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

published quadrangle at 1:20,000 scale Black and white cloth-mounted copy of the/map manuscript. 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 political boundaries, woodland, marsh, and twamp-limits, refer to the published quadrangle for the finally adopted positions.

Descriptive Report.

Division
Filed in the Photogrammetric Section - Surveys Branch

Field inspection photographs.

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

Field edit sheet.

Descriptions of recoverable topographic stations (Form 524), filed in Reviewing-Unit: 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.

Original celluloid manuscript.

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 field work by Commander K. T. Adams, 1944.

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.

Original celluloid manuscript.

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. 284, 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, driveways, and numerous other points identifiable on the photographs.

COMPILATION OF MANUSCRIPT

Compilation on the map manuscripts by radial plot methods (celluloid hand templets) 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 "blueline" 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.

DIVISION OF CHARTS

SURVEYS BRANCH

REVIEW OF AIR PHOTOGRAPHIC SURVEY T-8189

NAKINA 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 vertical accuracy test shows the contouring to be within national standard map accuracy requirements.

The horizontal accuracy test No.3 is discussed in the report on survey T-8187. Lefor filed in the Division of Mutagrammetry

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.

There are no previous topographic surveys in this area.

Comparison with Nautical Charts Nos.

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:

There are no nautical charts which cover the area of this map manuscript.

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

Only changes of a minor nature were necessary during the review of this map, manuscript.

under direction of D. H. Benson Public M. M.

Inspected by B. Jones

Examined and approved:

Chief, Surveys-Branch-

Division of Photogrammetry

Chief, - Topography - Section

Chief, Div. of Charts

Chief, Div. of Coastal

Surveys