8504

Diag'd. on diag. ch. Bo. 1219

U. S. COAST AND GEODETIC SURVEY

. DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Lir Photo. Compilation

Office No. T-8504 Field No.,

Hariz Ace'y Test.

LOCALITY

Delaware State...

General locality Atlantic Coast

Locality Bethany Peach

194 3

CHIEF OF PARTY Lieut. Comdr. K. G. Crosby Lieut. Comdr. F. L. Gallen

Comdr. Ray I. Echoppe

LIBRARY & ARCHIVES February 3,1948

DATE of Photos Gpril 4, 1943

8-1870-1 (1)

DATA RECORD

T- 8504

Quadrangle (II): Bethany Beach

Project No. (II): CS-302-B

Field Office:

Chief of Party: F. L. Gallen

Compilation Office: Tampa, Florida Chief of Party: K. G. Crosby

Instructions dated (II III): 3/18/43 July 23, 1942 Jan. 12, 1942

Copy filed in Descriptive Div Photogram Office Files

Completed survey received in office: 27 Sept. 1943

Reported to Nautical Chart Sections

Reviewed: 18 Jan. 1944 Applied to chart No.

Date:

Redrafting Completed: 15 Feb. 1944

Registered: 29 Jan. 1948

Published: 1944

Compilation Scale: 1:20,000 Published Scale: /:25000

Scale Factor (III): 1.00

Geographic Datum (III): N.A. 1927 Datum Plane (III): M.S.L. 1929

Reference Station (III): Bethany Beach Life Saving Station, 1909

Lat.: 38°32'45"476(1402.3m Long.: 75°03'23"084(559.0m) Adjusted xUnadjusted

State Plane Coordinates (VI):

X =

Y =

Military Grid Zone (VI) "Att

PHOTOGRAPHS (III)

Number	<u>Date</u>	<u>Time</u>	<u>Scale</u>	Stage of Tide
13327 13328 13329	4/4/43	12:51 EWT. 12:54 "	120,000	07 above MLW
-,,-,	4/4/43	12:56 "	/20 000	0.7 " ,

No record in Tampa Office of date and times of photographs

Tide range in Indian River Bay is only 0.2 of the range at the
Reference Station, while the Ocean Shore line has a tide

	Reference station, while The Ocean Shore line has a tide
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STATISTICS (III)

Land Area (Sq. Statute Miles): 23.6

Shoreline (More than 200 meters to opposite shore): 25.9

Shoreline (Less than 200 meters to opposite shore): 17.3

Number of Recoverable Topographic Stations established: None

Number of Temporary VRydrographic Stations located by radial plot: 2

Topographic

Leveling (to control contours) - miles:

Roman numberals 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. 301, 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, flurnishing 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

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.

FIELD INSPECTION REPORT
QUADRANGLE T-8504
Project CS-302-B
F. L. Gallen, Chief of Party

1. DESCRIPTION OF AREA:

This quadrangle, which lies entirely in Sussex County, Delaware, consists of beach and sand dunes formed by the Atlantic Ocean and marsh along the Indian River Bay and Assawoman Bay on the east, with well developed farms and timberland on the west. Elevations range from sea level on the east to about 31 feet along the sand dunes. Elevations to the west of the sand dunes range from about 6 feet to 20 feet. The farm land is very flat and is drained by numerous ditches. The area south of Bethany Beach is largely marsh, while the area around Millville and Ocean View is mainly well developed farms. The farm and timberland have a light sandy soil and is well drained by numerous streams and ditches which drain into the Indian River Bay and Assawoman Bay. A canal connects Indian River Bay and Assawoman Bay which is navigable for small boats. There are two main highways in this quadrangle. Delaware State Highway No. 14 along the Atlantic Ocean and Delaware State Highway No. 26 from the town of Bethany Beach west through the towns of Ocean View and Millville. There are many all weather county roads throughout the quadrangle which may be traveled in all types of weather. The timberland over this survey consists of pine, cedar and decidious trees which have a heavy undergrowth of brush. Three small towns are within the limits of this quadrangle; Bethany Beach, which is a summer resort on the ocean, Ocean View and Millville, which are west of Bethany Beach on Delaware State Highway No. 26.

2. COMPLETENESS OF FIELD INSPECTION:

The field inspection is thought to be complete except in the southwest portion of the survey where there is a secret military instalation which was requested by the commanding officer to be omitted from the finished map. All buildings, churches, cemeteries, trees and roads have been classified. Only the buildings circled are to be shown on the map drawing. All buildings circled and not labeled are to be classified as dwellings. Trails which were not clear on the photographs are shown with a dashed red line. The marsh areas have been designated and enclosed with a dashed blue line. There are two main highways which have been labeled on this survey; Delaware State Highways No. 17 and No. 26. It is believed that all necessary information is shown on the field photographs that should be shown on the map drawing. Classification of bridges and culverts which have been designated on the photos or any other small items erroneously omitted will be noted by the field edit party.

3. INTERPRETATION OF THE PHOTOGRAPHS:

See report for T-8498.

Hwy 17 falls on Frankford Quad (T-8503), west of T-8504

4. HORIZONTAL CONTROL:

See report for T-8498

5. VERTICAL CONTROL:

There are no first order bench marks in this quadrangle. A third order bench mark was established by this party and pricked on photograph 13327. The mark is located in the abutment of the BH 28-3(USED) bridge over White Creek in Millville. Supplementary level lines BH4(CE6S) were run over the main roads in this quadrangle to provide sufficient control for the planetable party. The level elevations in 1955, are shown in black, while planetable elevations are shown in Aug 10, as " a standard brown. These level lines were run and adjusted by a separate tablet in party and were assumed correct as submitted by them, except where blevations were found in error when a tie was made by a plane- wall on table party through intermediate lines. Elevations found in error were corrected. All elevations run by the level party are shown in the centerline of the road unless otherwise noted on the photo and may be used on the finished map drawing as ground elevations. Closures over .35 foot were adjusted and over 1.0 foot reran. Very few lines had to be adjusted, as many closures were of such an accuracy that they needed no adjustment.

6. CONTOURS AND DRAINAGE:

See report for T-8498.

7-13. The items under these headings in the field inspection report do not apply to this area.

14-18. See report for T-8498.

19. JUNCTIONS:

Junctions with T-8502 on the north and T-8503 on the west have been made and are in agreement. This survey joins T-8100 in Project 278.

20. PHOTOS

Photos. used in surveying this area are 13327, 13329, and 13338.

Approved & forwarded

Submitted by

F. L. Gallen

Chief of Party

Photol Aid

This was formerly a National Guard camp and is now being used by a detachment of troops engaged in coast defense work. According to information obtained at Fort Miles this camp should be shown in its entirety. No maps showing the boundary of the camp are available and the boundary should be located on the photograph and the name obtained at the same time.

CONTROL PROJECT SO2B QUADRANGLE T-8504

SOLUTION	CIASS	рното но.	DATE	DUTAL	
RORIZONTAL CONTROL:					
Assey, 1909	n-u	13357	5/15/43	L.G.G.	
Surtons Id., 1909	R-M	13330	5/6/43	L.G.C.	
hite House, S. Cable	R-M	13337	5/8/43	L.G.C.	
River, 1934	R-M	13337	5/13/43	L.G.G.	
Indian, 1934	R-A	13328	4/28/43	L.G.C.	
milian Pt. Flagpole,				100	
1984	B-4	13328	4/28/48	L.C.C.	
Jotton Patch, 1909,20,52	R-II	13328	5/7/43	L.G.C.	
Bethel Ch. Spire, 1909	Red.	8737	4/27/43	L.G.C.	
Bethany Beach Life					
Saving Station, 1909	R-A	8767	4/27/43	L.G.C.	
dee's Red-roofed					
House Chimney, 1909	R-A	8767	4/27/43	L.G.C.	
editorium, Center of					
Building, 1909	R-A	2767	4/27/43	L.G.G.	
North, 1929	Red	8767	4/27/43	L.G.C.	
Tunnel 2, 1969	R-A	8767	4/27/43	L.G.C.	
Chinney Cent. E'ly					
	Ref.	13330	5/8/43	L.G.C.	
Ho. Burtons Id., 1934	Reli	8767	5/9/43	L.G.C.	
Hotel Tower, (USCA)1943	Rell		5/8/43	1.G.G.	
White Chimney (USED)			1		
Thite Shack on Beach,	D-86		5/8/43	L.G.C.	
Center	D-di		4/28/43	L.G.C.	
Hotel Tower, 1909	D-A		4/27/43	L.G.C.	
B.C. (USED)	Date:		21 11 1 10		
VERTICAL CONTROL:					
28-3(USED) 1929	R-A	-	4/28/43	L.G.C.	
A B.M. was set by this I		:11-:11 Dhoto	13397 - 844		

Lieut. Comdr. P. L. Gallen Chief of Party Joe M. Henningsen, Prin. Photo. Aid, In charge sub-party

Indian River Coast Guard Tower (USCA) 1943

ABBREVIATIONS

ROADS	VEGETATION
	C — Cultivation
W — Width (feet bet. shoulders)	Gr — Grass
P — Private road	<u> </u>
OP — Overpass	BUILDINGS
UP — Underpass	Ho — House
X — Abandoned trail, road, etc.	Ba — Barn
RR — Railroad tracks; as 2 tracks	Sh — Shed
WOODS-CLASSIFICATION	Bldg — Building
Density-Classification	Bo Ho — Boat House
1 — Scattered	Ch — Church (give name)
Ž — Thinly wooded	Ct Ho — Court House (give name)
1 — Scattered 2> — Thinly wooded 3. — Heavily-wooded 4 — Densely wooded	PO — Post Office (give name)
	Sch — School (give name)
Types of woods	Hos — Hospital (give name)
D — Deciduous	RR Sta — Railroad station
P — Evergreen-and pine	Sto — Country store or gas sta.
R Brush	P Sta — Power Station
S — Scrub	Ck H — Chicken House
Y — Cypress	D — Dwelling
L — Young trees (LP—young pines	LANDMARKS
LD—young deciduous trees)	FT — Fire tower
SHORE LINE	TT — Transmission tower
HWL - Mean high water; fast land	RT — Radio Tower or mast
LWL — Low water line	Air Bn — Airway beacon
LL - Light line; marsh shore line	Bn — Non-lighted aid to navigation
M — Marsh inshore limits	Lt — Lighted aid to navigation
MW — Marsh grass in water	Tk — Low tank
Dk — Dock	Tk elev — Tall tank
Pier — Pier	Stk — Stack
Se W — Sea wall	STREAMS, PONDS & BRIDGES
Bkhd — Bulkhead	•
Jet — Jetty	D — Largest ditches only
Dol — Dolphin	DX — Small
Pile — Pile	IS — Intermittent stream
S — Sand	PD — Probable drainage
Mud — Mud	Cr — Creek
Rk — Rock or rocky	Ca — Canal
Sty — Stony	Brg — Bridge, (capacity & clearance)
Conc — Concrete	Cv — Culvert (capacity)
Wo - Wood	Lev — Levee Dam — Dam
Blf — Bluff	
Dune — Dune	
BOUNDARIES	IP — Intermittent pond
F — Fence	
Sty F — Stone fence	
FB — Fire Break	
Hdg — Hedge	
Park — Park	
Cem — Cemetery	
Co — County	
Md. — Maryland	
Va. — Virginia	·
Bdy — Boundary	•
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CCOOS AND ERUSH

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COHORANAMIT

- I Trees 10 feet or more in height, and this caough than in foliage to consecl trees and vehicles.
- Y Eruch and undergrath thick enough to injede Soot troops and conocal troops lying dam.
- Seattored troop not thick oneugh to conscal troops
- ti Scattered brush not thick cacuet to coascal troops.

PHYSICAL FRATURES

- The Higher ground unvally appears in light tone on photograph; oither treeded er bruch. (usually not symbolised en photograph),
- To a colored at the godde of the colored of the col
- En Bereg Ground covered with water or being, most of the imaj lever in olovation with
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NUTE: The above areas are not outlined but sufficient notes are made on each photograph so that the variation in tenso can be correctly interpreted in the exclusion.

BRIDGE AND TURNEL CLASSIFICATION

First Symbol	Ope Lane	Unitation
Garactty.	5 n.p.h.	
	SO tone	£5 tone
17	25 Lone	le tope
G.	16 insa	13 ties
Ð	. 10 toss	7 Lone :
\$	6 tons	4 tons
7	Light vehicles	only

Second Symbol

Ťø	711 o	a)	Cleare	264			TOT	14	feet	•	
			•		3	-	9702	13	feet:	-	•
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	• 7.				D ·	-	2445	11,	fee:,	4	te-

Raind System

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				4 ~	Wer	17	Yec \$	
			• • •	Q 😁	STAT	16	feet	
				D -	over	15	feet,	610 a

Fourth retol - Year of Classification

ROAD CLASSIFICATION FOR MAPS OF ALL SCALES

CLASS	LABEL	STRUCTURE	LOADING
1	Dependable hard-surface heavy duty road.	Concrete, asphaltic concrete bituminus Macadam, H-15 type structures.	Will bear heaviest loads with little maintenance.
2	Secondary, hard-surface all-weather road.	Surface-treated, oiled 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.

WOODS' CONCEALMENT CLASSIFICATION

Class-A:- Trees-over-10'-high-and thick-enough to hide troops.

Class.B: Brush thick-enough to hide troops but dense enough to impede progress.

Class C: Scattered brush thick enough to hide troops but not thick enough to impede progress.

26. CONTROL

The triangulation control on this sheet was sufficient for an accurate plot and all stations could be held.

(14 stations. See oppended list)

27. RADIAL PLOT

The main radial plot was run by personnel of the Washington Office and a report submitted by them is incorporated in the compilation report for sheet T-8502.

28. DETAILING

The photographs used were very clear and of good scale. The field inspection was sufficient and the compiler had no trouble in the interpretation and experienced no difficulty in detailing from the information given.

What are obviously ditches are shown on the field print with the intermittent stream symbol. This drainage should be investigated by the field edit party and corrected on the map manuscript sheet where necessary.

A small structure along the shore line at Lat. 38° 37.3', Long. 75° 06.7' shows on the photograph. As no notes were made by the field inspector as to what it is, it should also be investigated in the field.

Slight discrepancies between the Atlantic coast line and the south bank of Miller Creek on the junction with T-8100 on the south. It is thought that these shorelines are shown correctly on T-8504.

29. SUPPLEMENTAL DATA

No graphic control surveys by this Eureau or maps and plans of other organizations were used to supplement the photographs in the detailing.

34. LANDMARKS AND AIDS TO NAVIGATION

Twe topographic stations, "Indian River North Power Tower" and "Indian River South Power Tower", were "cut in" by the radial plot and are shown on the sheet. These two towers should be inspected by the field edit party, and if suitable for landmarks, a Form 567 should be submitted to the Washington Office. (See also paragraph II, Descriptive Report) + Water Tank & Radio Direction Finder Sta.

14. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

In comparing the sheet with USGS Rehoboth Quadrangle (Edition of 1928 on a scale of 1:62,500), several major

changes were noted in addition to numerous smaller ones.

Indian River Inlet is now located about $l_2^{\frac{1}{2}}$ miles South of the position shown on the quadrangle.

Fresh Pond is much smaller than it formerly was.

The entrance to Old Basin Cove is almost closed by two marsh islands which do not appear on the older map.

Bridge Gut which formerly separated Eurtons Island into two parts cannot be seen on the present photographs.

45. COLPARISON WITH MAUTICAL CHARTS

An accurate comparison with USC&CS Chart 1219, published February 1931 on a scale of 1:80,000, could not be made due to the large scale differences.

Respectfully submitted,

Emma a. Worrell

Emma A. Worrell Jr. Engineering Draftsman

Forwarded by:

Kenneth G. Glosby, Chief of Party

Field Edit Report.

DESCRIPTIVE REPORT TO ACCOMPANY QUADRANGLE T-8504 PROJECT CS 302 B Ray L. Schoppe, Comdr., Chief of Party

- 1. Description of the Area. Refer to field inspection report.
- 2. Completeness of Field Inspection. Refer to field inspection report.
- 3. <u>Interpretation of the Photographs</u>. Field photographs were not used by the field edit party except in checking level elevations.
 - 4. Horizontal Control. Refer to field inspection report.
 - 5. Vertical Control. Refer to field inspection report.
- 6. Contours and Drainage. Along the Atlantic seacoast, numerous closed 20-foot contours are shown. These contours show isolated sand dunes which are unstable vertically and horizontally. If has been previous practice to show these dunes by spotting elevations on the more prominent and permanent dunes. This party recommends that this practice be continued, in order that a consistency of pattern will exist with previously mapped areas. The elevations to be shown may be selected at the discretion of the compilation office.

Drainage features were checked and found to be complete except for two intermittent poids in the vicinity of latitude 38°33' and longitude 75°07'. Attention was called in the compilation report, item 28, to incorrect drainage features shown on the compilation. These features have been investigated and corrected on the compilation.

- 7. Mean High-Water Line. Although the mean high-water line was not checked closely, the field edit party was on the alert for discrepancies. None were found.
 - 8. Low-Water Line. Refer to compilation report, item 28.
- 9. Wherves and Shoreline Structures. The wherves and shoreline structures as shown on the compilation are complete and adequate.
- 10. <u>Details Offshore from the High-Water Line</u>. Other than fish weirs there were no offshore details within the limits of this quadrangle.

DESCRIPTIVE RECORD TO ACCOMPANY
OUADRANGER T-8504
PROJUCT OS 302 B
ROY L. Schoppe, COMMIN., Ohler of Party

1. Description of the Area. Refer to field imapaction

report.

2. Completeness of Field Inspection. Refer to field in-

3. Interpretation of the Photographs, Rield photographs were not used by the field edit party except in enecking level clovetions.

4. Workson tel Comtrol. Befor to field inspection report.

5. Vertical Control. Refer to field inspection report.

o. Contours and Dreimge. Along the Atlantic second, numerous closed 50-foot contours are shown. These contours slow isolated sand dunes which are unstable vertically and horizontelly. I' has been previous practice to show these dunes by spotting elevations on the more programment and permanent dunes. This party recommends that this practice be continued, in order that a consistency of pattern will exist with previously mapped areas. The elevations to be slown may be selected at the discretion of the compilation of fice compilation of fice.

Drainage features were checked and found to be complete except for two intermittent ponds in the vicinity of latitude 38255' and longitude 75007'. Attention was called in the compilation report, item .ER, to incorrect drainage features shown on the compilation. These features have been investigated and corrected on the compilation.

7. Mean High-Water Line. Although the mean high-water line was not observed closely, the field edit carty was on the elect for discrepancies. Mone were found.

A "correction copy" of T-8100 has had the change of name placed on the margin as "revision data", and the information source noted.

1 ine structures as anown on the compilation are complete and scenare.

10. Details Offshore from the disp-Water line. Other than fish weirs there were no offshore details within the limits of this quadrangle.

8493 8504

- 11. Landmarks and Aids to Navigation. Four landmarks and one aid to navigation have been submitted on form 567 for charting. (See also paragraph 34 of Compilation Report)
- 12. Hydrographic Control. Refer to compilation report, item 35.
- 13. Landing Fields and Aeronautical Aids. There were no landing fields or aeronautical aids within the limits of this quadrangle.
- 14. Road Classification. All roads have been classified and shown in accordance with instructions from the Army War College, dated Jan. 12, 1942.
- 15. Bridges. Bridge classifications were made in accordance with instructions from the war department, dated July 23, 1942, and have been shown in key on the sheet by C. C. Fryer, Junior Topographic Engineer.
- dwellings and chicken houses have been classified as barns (b). This includes all substantial sheds, large garages, and so forth. Because of the large number of chicken houses, they were classified (ckh), and as they are for the most part temporary structures, many were marked for deletion. In congested areas and towns, dwellings were not classified. Public buildings were classified according to standard topographic practice.
- 17. Boundary Monuments and Lines. The boundaries of political subdivisions of Sussex county have been added by the field edit party. Other boundary lines, added by the field inspection party, were checked by the field edit party.
 - 18. Geographic Names. Refer to field inspection report.
- 19. A disagreement was found between the junction of this quadrangle and that of the newly published quadrangle to the south, "Assawoman Bay", T-8100. The boundary and name of the Soil Conservation Service Assawoman Bay Site No. 8 is shown incorrectly on the newly published quadrangle. The correct name Soil Conservation Service Assawoman Bay Site No. 8 (not Delaware State Game Refuge) and boundary are shown on quadrangle Assawoman Bay Maryland-Dedaware, (1:31680) T-8100, which is submitted with this sheet.

850Y

46. This quadrangle was field edited on the compilation. Discrepancies not covered by suitable symbols were noted on the compilation by a sentence and arrow to the point in question.

All symbols used during field edit are standard topographic symbols except that a green "X" was used to show deletions and a tick mark was used to show limits of deletion and points of change in read classifications. The following color scheme was used:

Deletions	green
Additions, classifications, names, bench	
marks, level elevations	black
Water culture	
Political boundaries	violet

47. Adequacy of the Compilation. The compilation of this sheet was complete and adequate except for known deficiencies, such as boundaries, additions, and classification of buildings, bridges, and roads.

48. Accuracy Tests. A separate report of the horizontal accuracy test is included with this descriptive report. Attached hereto.

For the vertical accuracy test report refer to the field inspection report, item 6.

See inspection report for T 8498, item 5

Submitted by:

Wendell Bever

Junior Topographic Engineer

Wendell Bever

December 7, 1943

Approved:

Ray L. Schoppe Chief of Party

Form 567 (Rev. April 1942)

DEPARTMENT OF COMN RCE

T-8504

U. S. COAST AND GEODETIC & AVEY

LANDMARKS FOR CHARTS

STRIKE OUT ONE TO BE CHARTED TOXBEDELETER be charted on (delated fram) the charts indicated.

Georgetown, Delaware

, 19 43 November 17

I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks,

Ray L.Schopp Chief of Party. POSITION The positions given have been checked after listing.

1219 411 177 1219 (411 CHARTS 1219 1219 DEFSHORE CHART H H H INSHORE CHART наявоя снаят DATE OF LOCATION 1943 1943 1943 1909 METHOD OF LOCATION Triang. Radial Radial table Plot Plot office. DATUM N. A. N. A. N. A. 1927 1008.8 1927 1268.3 1927 1306.2 1927 this Approx. D. P. METERS 753.0 this station is not available to LONGITUDE 03 03 03 03 - 0 75 75 75 1050.5 D. M. METERS 635.7 739.6 Approx. 601.3 LATITUDE 36 36 32 35 38 38 0 38 28 4050 A *Cupola (Auditorium, center of Building, 1909) Geographic Position of NAME AND DESCRIPTION Transmiss 104 Bethany Beach Tower GENERAL Tower Tank

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0

0

landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." Positions of charted charts of the area and not by individual field survey sheets. Information under each column heading should be given.

C.H.

Checked:

W.B.

Scaled by:

888

torm

tions

from s

Geographic

Position Delaware

Cupolo:

Copy checked: Cma

M. S. GOVERNMENT PRINTING OFFICE 16-27869-

Form 567 (Rev. April 1942)

DEPARTMENT OF COMMEDCE

Permanent Non-Floating Aids to Navigation

LANDMARKS FOR CHARTS

STRIKE OUT ONE

TO BE CHARTED

U. S. COAST AND GEODETIC S

. 19_43 I recommend that the following objects which have (have feet because spected from seaward to determine their value as landmarks, be charted on (determine the charts indicated. Nor ember 18 Georgetown, Delewere TO BE DELETED.

The positions given have been checked after listing.	after lis	ting.			•	Pa	3	Je Je	Ä	1	Ray L. Schoppe
									٥	.htef	f Party.
GENERAL LOCALITY Rothers Boach			H	POSITION					THA	THAU	
			ļ			•	METHOD	DATE	CH/	- I	CHARTS
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,						Jemorandum. "LANDN
. !	•			356.	·	This form shall be prepared in accordance

landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

8. 6. SOYREMMENT PRINTING OFFICE 16-27869-*

0

HORIZONTAL ACCURACY TEST

PROJECT CS 302 B - Traverse Line No. 2

quadrangle T-8504

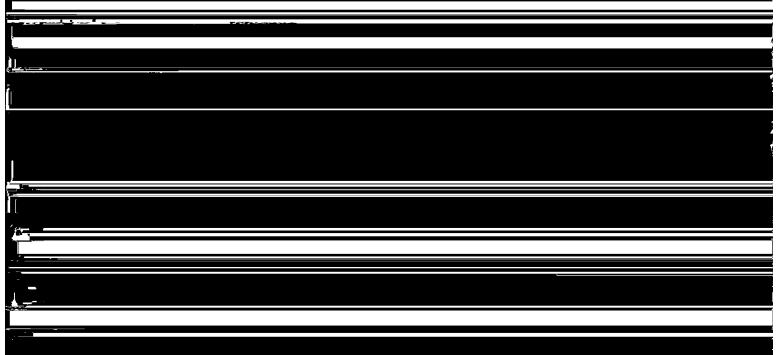
The points are well defined. It may be noted that test points No. 1 and No. 18, which are less well defined, No. 18 are in excess of .5 mm. The horizontal accuracy of this map is not within the requirements of the instructions by about 75.

Submitted by:

Charles Han Charles Henevich Prin, facto. Ald

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



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 tonographic stations

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.

Written by LTS from notes on "Review, Editing, & Drafting" form made at Time of Review.

REVIEW REPORT Quadrangle T-8504 BETHANY BEACH, DELAWARE 1944

Subjects not used in this review report have been covered in other parts of the Descriptive Report, or do not apply.

44 COMPARISON WITH EXISTING TOPOGRAPHIC SURVEYS

T-226 1/20000 1845 T-4467 1/20000 1929 T-299 1/20000 1850

Marked changes in inland detail; slight changes in shoreline; and Indian River Inlet 0.3 mi. south of position shown on T-226.

U.S.G.S. REHOBOTH 15' 1/62500 1928

See compilation report, item 44.

Survey T-8504 supersedes the above-named surveys.

45. COMPARISON WITH NAUTICAL CHARTS

1219 1/80000 1939

A light appearing on the chart is not on the manuscript. It cannot be seen on the photograph, nor has it been investigated by the Field Edit Party.

Four landmarks and one aid are recommended for charting.

This survey has not been applied to nautical charts as of the date of this review.

49 HORIZONTAL ACCURACY TEST

Foints 1 and 12 of the horizontal accuracy test fail to meet the 0.5mm position-accuracy requirement. They are oblique intersections of wide roads. Since a check of the radial plot corroborates the original positions, it is assumed that slight discrepancies in identification exist.

Reviewed by

Under direction of

Willis W. St John 18 Jan. 1944

Ralph Moore Berry

Chief, Review Section

APPROVED BY:

Chief, Div. of Photogrammetry

Chief, Neutical Chart Branc Division of Charts

Chief, Div. of Photogrammetry

Chief, Div. of Coastal Surveys

The latest hydrographic survey was H-4942, 1/20000, 1929, and none have been made since review and publication of T-8504.

> L.T.Stevens 29 Jan 1948

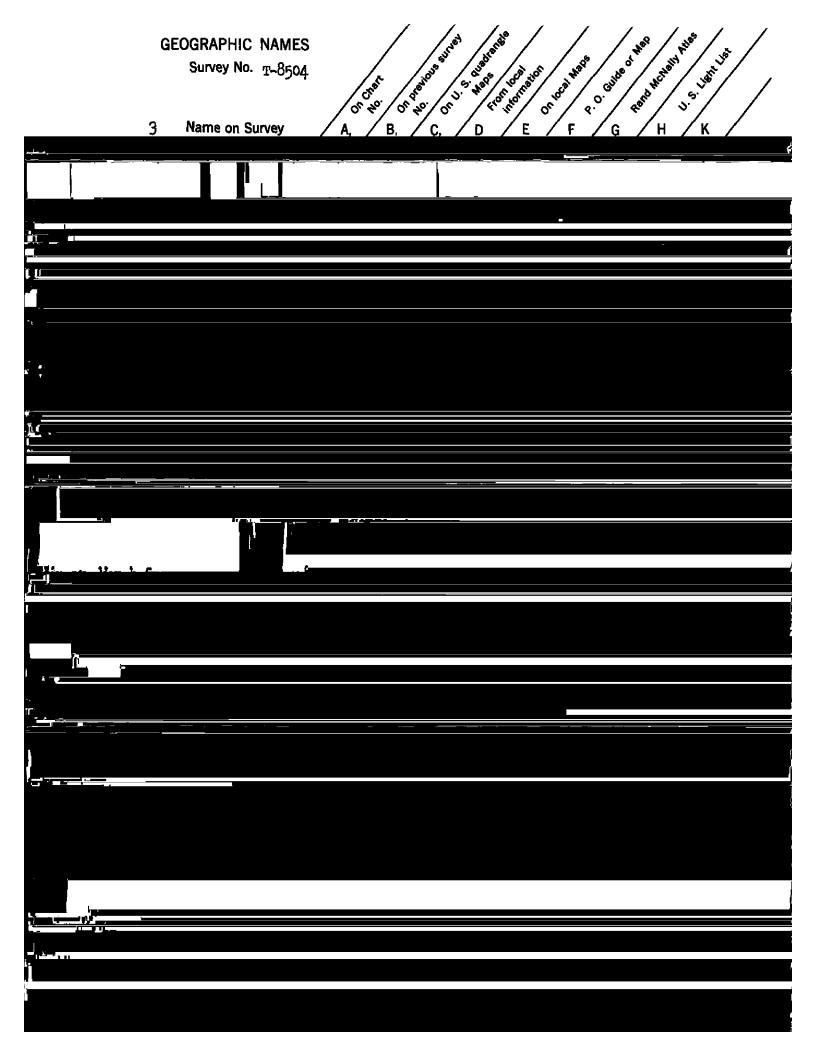
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NAUTICAL CHARTS BRANCH

SURVEY NO. 7- 8504

Record of Application to Charts

		, 	
DATE	CHART	CARTOGRAPHER	REMARKS
2/6/48	1219	5. Eusizinsky	Before Etter Verification and Review application
1/53	411	11 Evons	Before After Verification and Review
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			Before After Verification and Review

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.