12501

10001

Diag. Cht. Nos. 1209-2 & 1210-2.

Form 504

U. S. DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Chart 348

Field No. Ph-6102 Office No. T-12501

LOCALITY

State Massachusetts

General locality Vineyard Sound

Locality Woods Hole

19.61-62

CHIEF OF PARTY

W.E.Randall, Baltimore Dist. Office

LIBRARY & ARCHIVES

May 1964

USCOMM-DC 5087

2 -

DESCRIPTIVE REPORT - DATA RECORD CHART 348

- 12501

Project No. (II): Ph-6102

Quadrangle Name (IV):

Field Office (II):

Chief of Party:

Photogrammetric Office (III): Baltimore, Maryland

Officer-in-Charge: William E. Randall

Instructions dated (II) (III): May 10, 1961

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III):

Kelsh Plotter

Manuscript Scale (III):

1:5,000

Stereoscopic Plotting Instrument Scale (III): 1:2,000

(Pantographic ratio 2/5)

Scale Factor (III):

1.000

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III):

N.A. 1927

Vertical Datum (III):

Mean sea level except as follows: Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e., mean low water or mean lower low water

Reference Station (III):

Lat.:

Long.:

Adjusted Unadjusted

Plane Coordinates (IV):

State:

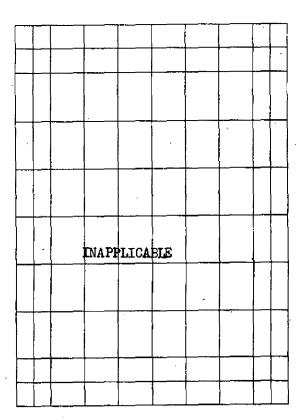
Zone:

è

X=

Roman numerals indicate whether the Item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.



Areas contoured by various personnel (Show name within area)
(II) (III)

DESCRIPTIVE REPORT - DATA RECORD

-4-

Field Inspection by (II): Joseph K. Wilson

Date: August 1961

Precompilation field inspection consisted of control recovery and identification , inspection of landmarks and aids to ravigation, and inspection of landmark bluffs.

Planetable contouring by (II):

Date:

Completion Surveys by (II):

J.K. Wilson

Date: APRIL 1962

Mean High Water Location (III) (State date and method of location): Infrared photography at high water.

Projection and Grids ruled by (IV): J. D. C.

Date: 7/17/61

Projection and Grids checked by (IV): G. H. Everett

8/11/61

Control plotted by (III):

D. M. Brant

Date: 9/5/61

Control checked by (III):

H. P. Eichert

Date: 9/5/61

Radial Plet er Stereoscopic

R. Fuechsel

Date: October 1961

Control extension by (III):

Planimetry D. M. Brant

Date: 11/30/61

Stereoscopic Instrument compilation (III):

Contours

Date:

Manuscript delineated by (III):

D. M. Brant

Date: 11/30/61

Photogrammetric Office Review by (III): H. P. Eichert

Date: 12/1/61

Elevations on Manuscript checked by (II) (III):

Date:

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): C

C&GS L and S cameras (6" focal length)

-5-

	PH	OTOGRAPHS (III)	
Number INFRARED	Date	Time Scale	Stage of Tide
61-L-1479 thru 1482 1496	4/9/61	1:30,000	0.0' M.H.W.
COLOR 61-5-6543 thru 6547 6550 thru 6553 6561 thru 6563 7656 thru 7662 7826 thru 7832	" " 5/3/61 5/5/61	1:15,000 " " 1:10,000 1:15,000	+0.7' M.L.W. +0.4' M.L.W. +0.55' M.L.W. +0.4' M.L.W. 0.0' M.L.W.

Tide (III)
(Observed)

Reference Station:

Woods Hole

Subordinate Station: Subordinate Station:

Washington Office Review by (IV): S.G. BLAUVENBAKER

Date: Aug. 29, 1962

Range

Ratio of | Mean | Spring

Range

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Date:

Date:

Ranges

Date:

Land Area (Sq. Statute Miles) (III):

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

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

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II):

Number of BMs searched for (II):

Recovered:

20 mi.

Identified:

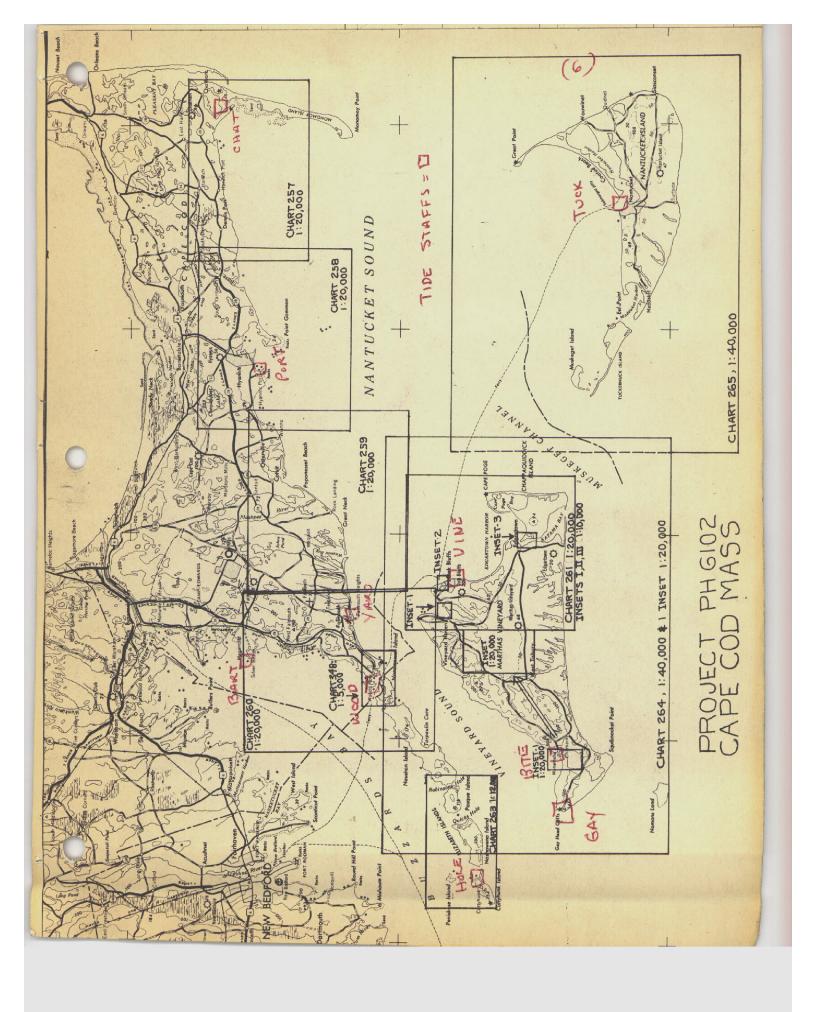
Number of Recoverable Photo Stations established (III):

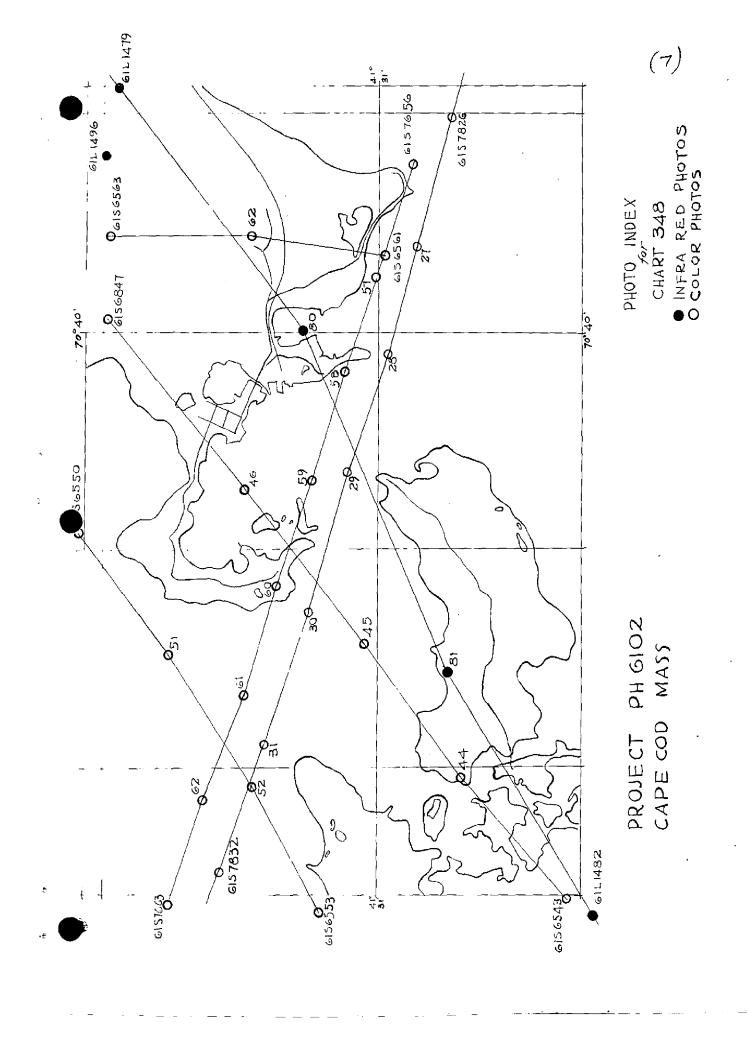
Number of Temporary Photo Hydro Stations established (III):

Remarks:

Refer to Plot Report for control used in bridge

ALL FIELD EDIT AND FINAL REVIEW CORRECTIONS HAVE BEEN APPLIED TO THE ORIGINAL PRAWING





T- 12501

Summary To Accompany Descriptive Report
Chart Drawing 348
Topography

This compilation is one of eleven similar chart drawings of topography ranging in scale from 1:5,000 to 1:80,000 in Project 6102. The project initiated to test the practicability of compiling nautical chart topography by photogrammetric methods, covers the south shore of Cape Cod, the Elizabeth Islands, Martha's Vineyard Island and Nantucket Island.

Compilation Record	Completion Date	Remarks
Incomplete manuscript (in part)	10/17/61	For field edit (superseded)
Incomplete manuscript Partial field edit applied	11/22/61	Super seded
Advance manuscript	11/30/61	Superseded
Field edit corrections	6/14/62	

PHOTOGRAMMETRIC PLOT REPORT CAPE COD, MASS. PH-6102 OCT. 1961

21. Area Covered:

Shoreline areas of the following charts: 250, 257, 258, 259, 260, 263, 264, 348.

22. Method:

Ten stereoplanigraph bridges comprising a total of 60 models were run in order to determine positions of various landmark objects and photo-topo points, and to provide pass points for use in Kelsh compilation of the project. Adjustment of strips 1, 4, 5, 8, and 10 was done on a least-squares basis by the IBM 650 computer. Strips 2, 3, 6, 7, and 9 were given a linear adjustment on the Clary computer. The adjustments of all strips in the project were adequately checked by number and placement of extra control stations, and/or points common to other strips.

23. Adequacy of Control:

Horizontal control provided complied with project instructions, and was adequate. All control held in bridging, with the following two exceptions: (1) Δ NAUSHON, 1844-R.M. 2 was 19 feet out in X and 36 feet out in Y. It is believed that the point was mis-identified in the field. This station may be disregarded inasmuch as its companion station (Δ NAUSHON, 1844-S.S. 1) held well in bridging. (2) Δ PASQUE, 1844-S.S. 2 was out 15 feet in X and 79 feet in Y. The adjustment, which was based on Δ PASQUE, 1844-S.S. 1, gives a good closure on the home station. Therefore, S.S. 2 may be disregarded. A mis-identification of S.S. 2 in either office or field could-account for the error.

 Δ Nashawena Island, Gable of N. House, 1913 was identified by the field man as a landmark rather than as Δ because no data could be found which stated whether the E. gable or the W. gable was the station. The results of bridging indicate that the E. gable is the station.

24. Supplemental Data:

None.

25: Photography:

Bridging was performed on both infrared photography and on black and white dianegatives made from color photos. The overall photographic quality of the black and white negatives was poor. There was a marked deficiency in tonal gradation and an extreme graininess, both of which contributed to a general lack of clarity. The quality of the infrared photography was better, although still inferior to panchromatic photography. These deficiencies probably can be overcome in the compilation phase by supplemental graphic compilation using the color photographs.

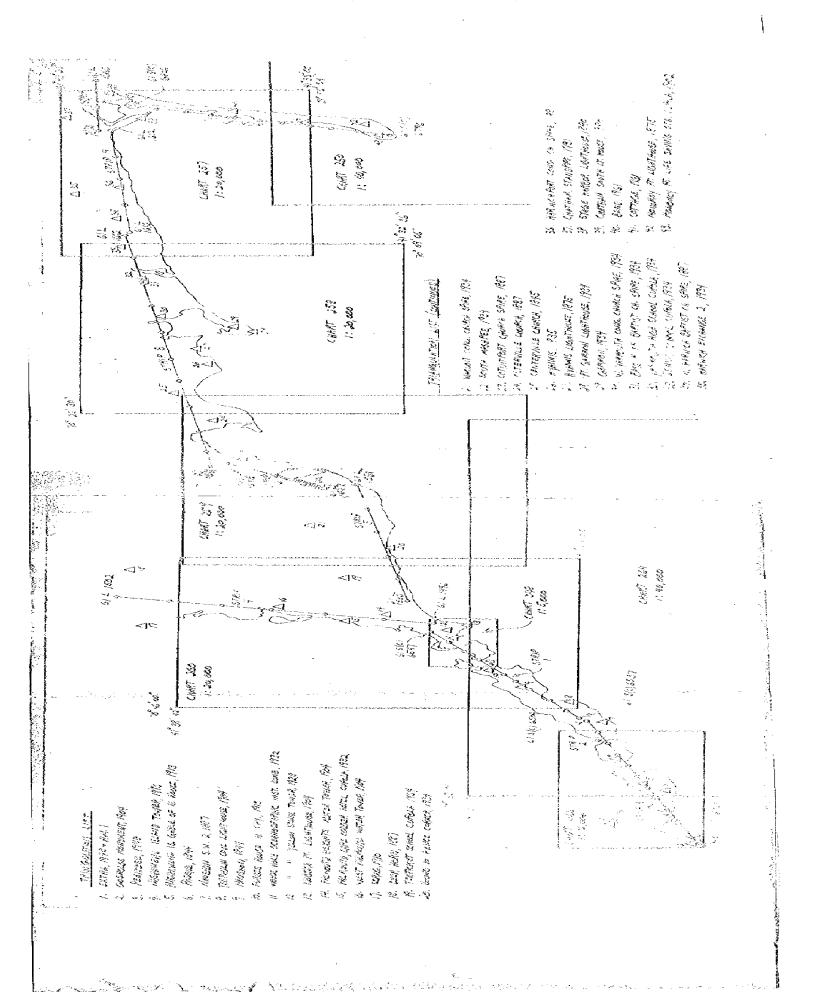
Submitted by:

R. Fuechsel

Approved by:

E. H. Ramey, Chief

Aerotriangulation Section



Field Report: No field inspection report was submitted.

31. DELINEATION

The Kelsh plotter was used for delineation using dianegatives of the color photography. The color film and the infrared photography were used - as will be explained below. All delineation was on work sheets, the details from which were later transferred to the chart drawing.

32. CONTROL

Horizontal control from the stereo-planigraph bridging was adequate.

33. SUPPLEMENTAL DATA

The data used in the compilation is listed on the history form which is attached.

34. CONTOURS AND DRAINAGE

Contours are inapplicable. Drainage is sparse.

35. SHORELINE AND ALONGSHORE DETAILS

The mean high-water line was interpreted with the aid of the infrared photography. The vertical projector was utilized in enlarging the photographs to chart scale. This was done after compilation with the low water dianegatives.

The low-water and shallow lines were delineated during the Kelsh compilation.

There was no field inspection of map details, other than a partial field edit before compilation was completed. Corrections and additions have been applied.

36. OFFSHORE DETAILS

It was found that by using the color film positive (between two pieces of glass) in the Kelsh plotter, compilation of the very numerous offshore rocks was facilitated. These models set up very well. Most buoys and beacons could also be seen and were compiled.

37. LANDMARKS AND AIDS

The two (2) landmarks which appear in this chart are triangulation stations.

There are twelve (12) nonfloating aids in the area of the chart. Of these, only one (1) is triangulation. Ten (10) have been office identified and located from the color photographý. One aid, DEVILS FOOT DAYBEACON, could not be office identified and was not located. None were identified on the photographs during field inspection.

Forms 567 are attached.

Numerous floating aids have also been located.

38. CONTROL FOR FUTURE SURVEYS

The numerous chart details will be sufficient for any chart corrections in the future using aerial photographs.

39. JUNCTIONS

Junctions have been made with smaller scale charts 260 at 1:20,000 and 264 at 1:40,000.

LO. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41. thru 47.

Inapplicable.

48. GEOGRAPHIC NAME LIST

Geographic names have been omitted at the request of Mr. Everett.

Respectfully submitted December 12, 1961

Henry P. Eichert Super Carto. (Photo.)

Approved and forwarded

William E. Randall

CDR, C&GS

Baltimore District Officer

E. Randace

FIELD EDIT REPORT Project PH-6102 Chart 348 Woods Hole, Mass.

GENERAL NOTES

The area was field-edited during the period of 23 April through 1 May 1962. Corrections and additions have been inked on the photographs in black and referenced on the discrepancy print in purple.

Special areas were investigated at or near low-water. Levels were run from Tidal Bench Mark 4 at Woods Hole to establish the stage of tide. Walkie-Talkie Radios were used to transmit the tidal data to the field inspector. Low tides were favorable for this work on 27 April through 1 May 1962.

The rock delineation by the compiler, as a whole, looked very good. His interpretation of the photographs was excellent.

All landmarks and fixed aids to navigation were visually checked and were verified except for DEVILS FOOT DAYBEACON. This daybeacon was destroyed during the fall of 1961 and replaced in a nearby position in April 1962. It was located by angle and distance from a photo point. See forms 152 and 567.

Your attention is invited to the floating piers in Eel Pond. These floats are attached to permanent piling and should be shown as chart features.

Bluff delineation was checked visually and in all cases appeared to be good.

Field Edit notations are inked on the following color photographs: 61-S-7828, 7829, 7830, 6544 and 6546.

2 May 1962

Chief Photo Party 720

REVIEW REPORT
TOPGRAPHY
NAUTICAL CHART DRAWING 348 (T- 12501)
September 12, 1962

61. General Statement

The recompilation of the topography of chart 348 was not included in the original project plans. The compilation of an entirely new base was included as a part of PH-6102, because of difficulties with hydrographic and photogrammetric surveys of the chart and the existance of adequate photography and control to provide a strong bridge and to compile features. A copy of the memorandum (dated 19 July 1961), suggesting the recompilation, is included as a part of this Descriptive Report.

This recompilation was made contingent upon the availability of a hydrographic launch in the summer of 1962 to clear up difficulties resulting from anticipitated changes in the positioning and selection of alongshore and offshore features (rocks in particular). No check by hydrographic launch has been made and differences exist between the published chart and the new compilation.

A joint detailed comparison was made prior to field edit by personnel in the Photogrammetry Review Unit and the Nautical Chart Division Hydrographic Review Section of the color photographs, new compilation and the published chart in the area seaward from the high water line for the purposes of (1) accomplishing the usual office examination prior to field edit and (2) as an aid in determining the extent of future hydrographic work required to correct the latest hydrographic survey. A thorough check was made to ensure that all features visible in the phogographs were shown. Discrepancies considered practicable for field edit investigation were referred to the field editor and have since been resolved. Additional significant differences between the published chart and the new drawing and deficiencies in the latest hydrographic surveys requiring an investigation by launch were recorded by the Hydrographic Review Section for future use. The principal differences between the new drawing and prior surveys and deficiencies in the new compilation are discussed under items 62 and 65 of this report.

62. Comparison With Registered Topographic Surveys

1858	1888-89	1:5,000	scale
6621	1938	1:5,000	scale
6622.	1938	1:5,000	scale
5744	1948	1:10,000	scale
11336	1953	1:5,000	scale

T-11336, the source of shoreline and of the majority of the bare and sunken rocks shown on the published chart, has local area errors in the positioning of common details of more than 2mm and other differences. The new compilation supersides the prior topographic surveys for charting purposes.

63. Comparison with Maps of other Agencies

No significant differences were noted in comparing the new survey with the 1:24,000 scale USGS quadrangle Woods Hole - 1953.

64. Comparison with Contemporary Hydrographic Surveys
Inapplicable

65. Comparison with Nautical Charts

348 14th Ed., March 20/61 to the time of prior surveys that serve

Numerous physical and cultural changes that occurred subsequent the basic source of details on the published chart, are included on the new drawing. Errors in the positioning of topographic features on the published chart are discussed in item 62 of this report.

Many rocks "awash" shown on the published chart are not visible on the color photographs taken at low tide. They are believed to be sunken.

Discrepancies probably exist in the new compilation because of the difficulty in some instances in differentiating between "sunken" and "awash" rocks (rocks having their peaks near MLW) on the color photographs. In some instances "sunken" rocks shown on the new compilation may be bottom characteristics rather than a hazard to navigation. Depths indicated on the published chart and the apparent heights of the rocks relative to surrounding features were used as guides in delineating sunken features.

66. Adequacy of Results and Future Surveys

This compilation, based on a strong bridge, meets horizontal accuracy requirements; and all topographic features (visible on the "tide controlled" color and infra-red photographs or furnished through field edit) specified by the Nautical Chart Division have been shown.

Reviewed by:

S. G. Blankenbaker

Approved by:

Checf, Cartographic Branch

Chief, Photogrammetry Division

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34 6	C.A. LIPSGOMB	M.B			6/14/62	40					

Location: Woods Hole Massachusetts
Projection: Mercator
Detum N.A. 1927
Scale1:5,000 at Middle Latitude 41°31'
Projection interval 1×2" 30" Color black
Border 0.0-1.5-1.5-7.5
Material: Transparent vinylite
All figures in millimeters X
Limits Lat. 41°30'14" to 41°32'04"; Long. 70°38'41" to 70°42'36"

1' Long. at Middle Latitude 1'31' = 278.256 mm

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6301/tak

19 July 1961

CAPT Michaette, Chief Program Flamming Staff

7 7 7 1

Chief, Mentical Charts Division

Chief, Photogrammetry Division

Recompliation of Topography, Chart 348, (1:5,000), Weeks Hale, Massachusette

It is suggested that, as part of our Cape Ced project, the Semagraphy of Chart 340 be entirely recompiled from the new take controlled low-enter and high-enter photography, thus providing an entirely new base. Because of difficulties with the last hydrographic and photogrammetric surveys of this chart, we must anticipate some changes in the positioning of alongshore and offshere features. COMESQUESTLY, THIS MADE COMPILATION SHOULD BE MADE ONLY IF A HYDROGRAPHIC LAUNCH CAN HE RADE AVAILABLE IN THE SUBGER OF 1962 TO CLEAR UP ANY DIFFERENCE RESULTING FROM THE MEN TO FORWAPHIC BASE.

We have adequate photography and central to make a strong photogrammetric bridge or plot, to compile all feetures unique are above mean-low water and, for that matter, communit below mean-low water, and to establish aboreline this paints for control of hydrography. We can compile this chart and complete the initial field edit by our photogrammetric field party this fall so that it will be available in the spring.

This is going to be done seemer or later and it would seem becomested and practical to do it now rather than to wait several years when we would determine to take new photography and make a new compilation.

In examining the photography at Cape Cod, we sed the Membical Chart Division find it desirable to reconstruct the 1:20,000 scale chart drawings in this area also (prior to redeing the 1:00,000) because of numerous changes. The only question we have is in regards to Woods Hole because in this case, for Possens you will understand, some hydrographic investigation may be meeted.

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COAST AND G

Form 567

U.S. DEPARTMENT OF COMMERCE ETIC SURVEY

NONFLOATING/ADS/OR LANDMARKS FOR CHARTS

TO BE CHARTED STRIKE OUT TWO

Daltimore, Heryland

Hoverbor 30 1961

Chief of Party.

0

I recommend that the following objects which have make now been inspected from seaward to determine their value as landmarks be charted on deleted from) the charts indicated.

Henry P. Eldhert The positions given have been checked after listing by

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This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. 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.

* TABULATE SECONDS AND METERS

USCOMM-DC 27126

21

U.S. DEPARTMENT OF COMMERCE TIC SURVEY COAST AND G

Form 567 (10-15:58

TO BE CHARTED

NONFLOATING AIDS OR/LANDWIARKS FOR CHARTS TO BE CHARTED STRIKE OUT TWO

Baltimore, Maryland

November 30, 1961

I recommend that the following objects which have (high) been inspected from seaward to determine their value as landmarks be charted on (highest from the charts indicated.

The positions given have been checked after listing by Henry P. Eichert

William E. Rendell Chief of Party.	METHOD	LOCATION OF CH	NA SECOND	11 30 56.123 20.291 61-1 Triang.	41 31 28-29 70 10 716 6546 Photo 4/2/61 1216 249	41 31 1191 70 10 808 6546 " 4 1/62 348,249	11 11 11 11	54 70 to 13h " " " " " ''	11 31 15.94 70 10	41 31 246 70 10 1156 " " " " (1	41 31 229 70 10 1239 6546 " " (HOT VISIBLE ON HIOTOBS. NEW FORM	5 41 31 209 70 ld	11 30 54,886 70 11 1318 6544 " "	41 30 38,90 70 42 132 " " " (7 348,249,260,	
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This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. 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.

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USCOMM-DC 25412-P61

Form 567

U.S. DEPARTMENT OF COMMERCE TIC SURVEY COAST AND GE

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-, 19₆₂recommend that the following objects which have (pagapay) been inspected from seaward to determine their value as landmarks be 15 June Paltimate, Maryland

STRIKE OUT TWO

charted on (date property the charts indicated.

The positions given have been checked after listing by Joseph D. McDrog

William E. Handell Chief of Party.

STATE					POSITION			METHOD		y)		
	MASSAGIUSETES		3	CATHUDE*	TONG	LONGITUDE *	_	LOCATION	DATE	12 38		CHARTS
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This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 6-36, Fig. 79. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be
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* TABULATE SECONDS AND METERS

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-12501

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

2. In "Remarks" column cross out words that do not apply.

3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
348	8-12-64	J.T. Gollahan	End Part Before After Verification Review Inspection Signed Via
<u> </u>			Drawing No. 17 added meneror 185 & diesied sections of
			phore bill
249	11-20-64	A J Lundas	Bull-Part Bafore After Verification Review Inspection Signed Via
<i></i>		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	Drawing No.
201	2 22 60	J.T. Gallahan	Full Part Before After Verification Review Inspection Signed Via
<i>1,64</i>	3" 22-63	J. I. Gallanan_	Drawing No #3 at ded in & 3 rk-
260	3-25-65	J.T. Gallahars	Full Part Before After Verification Review Inspection Signed Via
			Drawing No. #3 apple thru Bp. 63096 which same
			as T 12496 with Auto nevisions.
1210	5-18-65	J.T.G.	Full Part Before After Verification Review Inspection Signed Via
			Drawing No. 45
348	9/22/66	John Pwein	Full Past Before After Verification Review Inspection Signed Via
	7 70	0	Drawing No. 18 Grept for Company Rock detail
- 446			Full Part Better After Verification Review Inspection Signed Via
マダタ	3-27-73	g. Bailey	
			Drawing No. 35 No collection Same detail
			DS 7-12496
114-SC	9-27-74	Robert Hocky	Full Part Defore After Variffication Review Inspection Signed Via
SF.		/	Drawing No. CONSIDER ADEQUATELY APPLIED
			Full Part Before After Verification Review Inspection Signed Via
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			Full Part Before After Verification Review Inspection Signed Via
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