11789 Original

Diag. Cht. No. 77-6.

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey PLANIMETRIC

Field No. Ph-6008 Office No. T-11789

LOCALITY

State MARYLAND

General locality CHEASAPEAKE BAY-CALVERT COUNTY

Locality NORTH BEACH

19 60

CHIEF OF PARTY

G. F. Wirth, Chief of Field Party
V. Ralph Sobieralski, Tampa District Office

LIBRARY & ARCHIVES

DATE APR 19 1963

USCOMM-DC 5087

11789

FORM 181
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T -11789

Project No. (II): Ph-6008 Quadrangle Name (IV):

Field Office (II): Cheasapeake Beach, Maryland Chief of Party: George F. Wirth

Photogrammetric Office (III): Tampa, Florida Officer-in-Charge: V. Ralph Sobieralski

Instructions dated (II) (III): 31 August 1960
Amendment 1 24 October 1960

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Kelsh Plotter

Manuscript Scale (III): 1:10,000 Stereoscopic Plotting Instrument Scale (III): 1:6,000

Scale Factor (III): Pantographed to 1:10,000

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): MHW

[redacted] 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): BAKER 1933

Lat.: 38°43'22.714" (700.4 m) Long.: 76°31'36.510" (882.0 m) Adjusted [redacted]

Plane Coordinates (IV): State: Maryland Zone: I

Y= 324,336.09 ft. X= 935,003.66 ft.

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

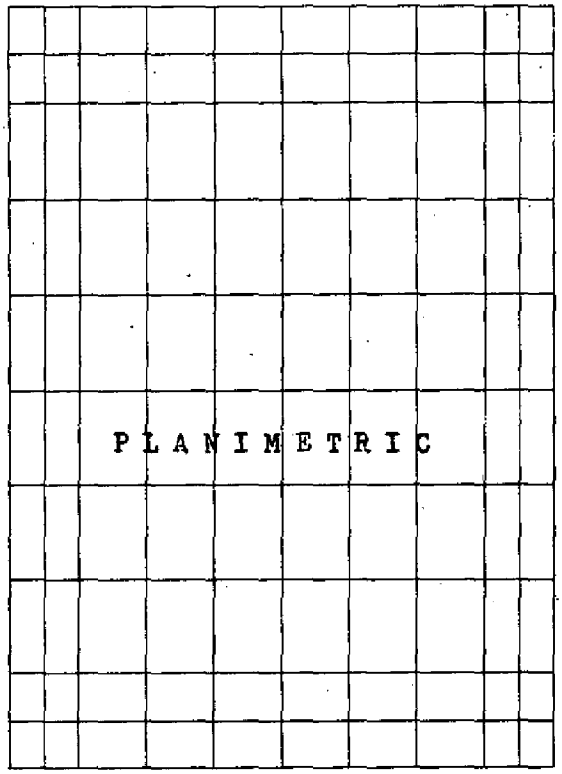
When entering names of personnel on this record give the surname and initials, not initials only.

COMM-DC-57842

FORM 181a
(4-23-54)

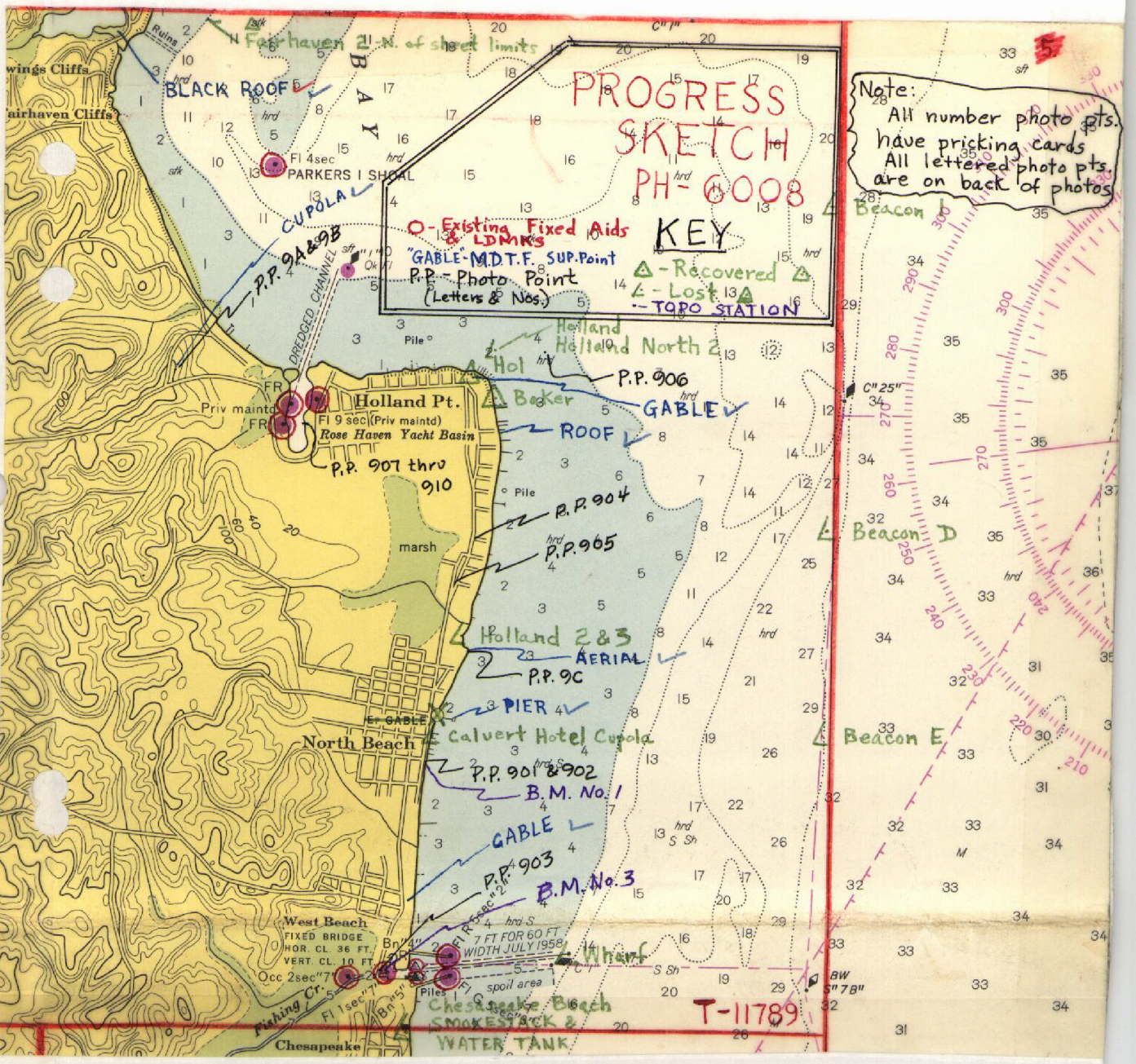
U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD



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

Not applicable


PROGRESS SKETCH
PH-6008
KEY
O-Existing Fixed Aids & LDMKs
"GABLE-M.D.T.F. SUP. Point
P.P.-Photo Point (Letters & Nos.)
△-Recovered
△-Lost
--TOPO STATION
Note:
All number photo pts. have pricking cards
All lettered photo pts. are on back of photos
Fairhaven
BLACK ROOF
Fl 4sec
PARKERS I SHOAL
CUPOLA
P.P. 9A&9B
DREDGED CHANNEL
Holland
Holland North 2
Hol
P.P. 906
Baker
GABLE
ROOF
Holland Pt.
Fl 9 sec (Priv maintd)
Rose Haven Yacht Basin
P.P. 907 thru 910
P.P. 904
P.P. 905
marsh
Holland 2&3
AERIAL
P.P. 9C
PIER
Calvert Hotel Cupola
North Beach
P.P. 901 & 902
B.M. No. 1
GABLE
P.P. 903
B.M. No. 3
West Beach
FIXED BRIDGE
HOR. CL. 36 FT.
VERT. CL. 10 FT.
Occ 2sec"7"
Fl 1sec"7"
Fishing Cr.
Chesapeake
7 FT FOR 60 FT WIDTH JULY 1958
spoil area
Piles
Wharf
Chesapeake Beach
SMOKESTACK & WATER TANK
T-11789
Beacon D
Beacon E
C"25"
BW 5"78"

FORM 181b
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

3.

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): G. F. Wirth
C. H. Nixon
J. E. Tolodziecki Jr.
Date: Nov. 1960

Planetable contouring by (II): Inapplicable
Date:

Completion Surveys by (II): Inapplicable
Date:

Mean High Water Location (III) (State date and method of location): Air photo compilation
Date of photographs: 23 July 1960

Projection and Grids ruled by (IV): R.A.C. (W.O.)
Date: Oct. 1960

Projection and Grids checked by (IV): J.D.C. (W.O.)
Date: Oct. 1960

Control plotted by (III): E. T. Ogilby
Date: Jan. 1961

Control checked by (III): I. I. Saperstein
Date: Jan. 1961

~~Photogrammetric~~ Stereoscopic
Control extension by (III): Washington Office
Date: Oct. 1960

Stereoscopic instrument compilation (III):
Planimetry E. T. Ogilby
Date: Jan. 1961

~~Contours~~ Inapplicable
Date:

Manuscript delineated by (III): E. T. Ogilby
Date: Jan. 1961

of compilation
Photogrammetric Office Review by (III): W. H. Shearouse
Date: Feb. 1961

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

COMM-DC-57842

FORM 181c
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

4.

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): Wild Single-lens "S"

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
60S-8588	23 July 1960	09:55	1:30,000	0.5
" 8589	" "	09:56	"	0.5

Tide (III)

	Ratio of Ranges	Mean Range	Spring Range
Reference Station: Baltimore Maryland	-	1.1	1.3
Subordinate Station: Cheasapeake Beach	-	1.0	1.2
Subordinate Station: Fairhaven, Herring Bay	-	0.9	1.0

Washington Office Review by (IV): Date:

Final Drafting by (IV): R. E. Smith Jr. (Tampa District Office) Date: March 1961
" " Reviewed I. I. Saperstein April 1961
Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): Date:

Land Area (Sq. Statute Miles) (III): 9
Shoreline (More than 200 meters to opposite shore) (III): 5.2
~~Shoreline (Less than 200 meters to opposite shore) (III)~~:
Control Leveling - Miles (II): Inapplicable
Number of Triangulation Stations searched for (II): 11 Recovered: 3 Identified: 1
Number of BMs searched for (II): 3 Recovered: 3 Identified: 3
Number of Recoverable Photo Stations established (III): 10 (8 natural objects and 2 Tidal B.M.'s)
Number of Temporary Photo Hydro Stations established (III): None

Remarks:

One station ("FAIRHAVEN 2"), recovered and identified for this sheet, is about .4 mile north of the sheet limits.

COMM-DC-57842

Preface

T-11789

The text of this report covers sheets T-11789,790, and 791. These are the northernmost sheets of Project PH-6008. There are ~~six~~ five sheets in this project; all 1:10,000 scale.

The area covered by these three sheets extends along the west shore of the Chesapeake Bay from Dares Beach to Fair Haven, Maryland. The Calvert - Anne Arundel County Line splits Sheet T-11789 approximately in half. Anne Arundel County occupies the northern half of this Sheet.

The field operations consisted of control recovery (on single lens 1:30,000 scale panchromatic contact prints), field inspection (on single lens 1:10,000 scale ratio prints), and various other reports and investigations covered in this text. One deviation from normal planimetric mapping was the establishment of supplemental control for the charts that are being compiled for the " Maryland Department of Tidewater Fisheries".

Field Inspection Report

PH - 6008

Chesapeake Bay - West Shore - Maryland

2. Areal field inspection

The area included in these sheets consists of rolling hills, relatively large wooded areas, and well established beach communities. The shoreline varies from sandy - clay cliffs on the southerly two sheets to relatively flat areas on sheet T - 11789. The cliffs begin to appear along the beach again in the northern section of T - 11789. Chesapeake Beach, North Beach, and the Holland Point Area are well established settlements with two excellent boat harbors; "Rod 'N Reel Club" on Fishing Creek, and "Rose Haven Harbor" on the Herring Bay side of Holland Point. A number of "sport fishing" charter boats are available at the "Rod 'N Reel Club".

A few large piers are located in the North Beach - Chesapeake Beach area, but shallow depths exists at the ends of all of them.

The contact prints for these three sheets have the same characteristics as those for sheets T - 11792. See Report for Sheet T-11792, item 2, paragraphs 3 and 4, for details.

3. Horizontal Control

See report for Sheet T - 11792 for horizontal control recovery and identification.

All C.&G.S. stations on these three sheets were searched for and the following were reported as "lost" on Form 526.

T - 11789
HOLLAND NORTH 2, 1898
HOLLAND 1906
WHARF - no description available

NORTH BEACH CUPOLA CALVERT HOTEL, 1933
HOLLAND 3, 1907
BEACON E, 1945
BEACON 1, 1945
BEACON D, 1945

T - 11790

BEACON 2, 1945
BROWNE BASE, SOUTH, 1941
TRAVERSE STAKE No. 9, 1944
TRAVERSE STAKE No. 7, 1944
TRAVERSE STAKE No. 6, 1944
REFERENCE MARK No. 1 OF BENCH MARK No. 1, 1944
TRAVERSE STAKE 15, 1944
ILL 2, 1907
ILL, 1898
HUTCHINS, 1934 - Can possibly be recovered.
TRAVERSE STAKE 35, 1944
TRAVERSE STAKE 31, 1944
TRAVERSE STAKE 20, 1944
CHESAPEAKE BEACH WATER TANK, 1933
BLAKE 2, 1898
TRAVERSE STAKE 12, 1944
TRAVERSE STAKE 22, 1944
CHESAPEAKE BEACH SMOKE STACK, 1933
BEACON F, 1945
BEACON 3, 1944
WAVE, 1944 - Reported relocated by the U.S.Navy - Data forwarded to C.& G.S.- Wash. 25, D.C.
BENCH MARK No. 1, 1944
BENCH MARK No. 2, 1944
BROWNE BASE NORTH, 1944

T - 11791

BASFORD, 1907
WILSON NORTH CHIMNEY
HANCE HOUSE CHIMNEY

4. Vertical control

Contours Not Applicable

Tidal Bench Marks in the area were recovered with the following results

T - 11789

B.M. 1 - Recovered - Established as Topo
B.M. 2 - Recovered and identified
B.M. 3 - Recovered - Established as Topo

T - 11790

B.M. 1 - Lost
B.M. 2 - Lost
B.M. 3 - Recovered
B.M. 4 - Recovered

B.M. 5 - Recovered
B.M. 6 - Recovered
B.M. 7 - Recovered
B.M. WAVE - Relocated by U.S.Navy -
Data forwarded to C. & G.S. -
Wash, 25, D.C.

B.M. NAVY - Recovered

5. Contours and drainage

All drainage has been delineated on the field photos, See Report for Sheet T - 11792 for additional details. A large amount of small perennial streams seems in excess, but all of the streams shown were inspected at various places.

6. Woodland cover

Woodland cover was delineated on the photos per instructions.

7. Shoreline and alongshore features

(a) The mean high water line in much of the beach community areas is at the base of wood bulkheads.

(b) The mean low water line was not delineated. The photos were taken near high water and therefore this operation was not feasible.

(c) The foreshore area consists of a sandy clay bottom with sand bars paralelling the shore distances of one half mile offshore.

The foreshore on Sheet T - 11789 is very shallow. Herring Bay has some predominantly muddy areas. Foreshore characteristics have been delineated on the field photos.

(d) Cliffs line most of the shoreline. On an average, they are about 30 to 50 feet lower than those described on Sheets T - 11792 and T-11793. There are no cliffs from Fishing Creek to Rose Haven Harbor.

(e) Docks, wharves, piers, and landings have been delineated on the field photos.

There is an excellent harbor on Fishing Creek with two marine railways and a boat lift. A Federal Project keeps a channel open and maintains two 1000 foot jettys at the mouth of the creek

An excellent harbor exists at Rose Haven Harbor on the north side of Holland Point. A boat lift is available here. This is a private project, but an entrance light range and a light mark this harbor for navigation. Minor types of targets are maintained by the owner as aids to mark the channel. These aids are shifted often and are not listed in the "C.G.List of Lights", nor were they located by this party. A channel to the harbor is maintained privately.

(f) Asubmarine power cable extends from the "Naval Research Laboratory, Chesapeake Bay Annex" to a platform in the bay. The shore end of this cable has been delineated and the platform located by theodolite cuts from various supplemental control points.

(g) An overhead power line crosses a small boat harbor at Breezy Point on Sheet T - 11791.

8. Offshore features

All offshore features have been delineated on the field photos.

9. Landmarks and aids

All landmark and fixed aid data for nautical charts has been submitted on Form 567. There are no aids for aeronautical charts. The two range lights at Rose Haven Harbor were located by theodolite cuts from supplemental control. The angles are recorded on the backs of Form 152 for photo points 907 thru 910.

Lights 2466 and 2468 ("C.G. List of Lights" numbers) were located from theodolite cuts from supplemental control points. See Forms 251a and 24A (5 sheets) for angles. Light "2467" has been discontinued.

The azimuth of two light ranges on Sheet T - 11789 were determined by two fixes each on the ranges. The sextant fixes are recorded on the backs of the photographs.

A large "tower" and "steel rack" are under construction at the "Naval Research Laboratory, Chesapeake B ay Annex" and will be good landmarks when completed. It is recommended that they be investigated for charting purposes by either the "Field Edit" or "Hydro" Party.

10. Boundaries, monuments, and lines

A report for this phase of the project has been submitted under separate cover.

11. Other control

The following list contains all the supplemental control used in this project and its purpose. Control is listed from south to north for each sheet. Asterisk denotes use for "Maryland Department of Tidewater Fisheries Charts".

Sheet T - 11791

* DORMER - Pricked Direct
* DORMER - Located from photo point 1B by angle and distance. Distance was determined by short base method. See Form 25g. This DORMER was also used in a fix to locate a fish trap on Sheet T - 11792.
* CHIMNEY - Located by same method as above from photo point 1A.
* COPPER SURVEY STAKE - Pricked Direct
Photo Point 101 - To locate fixed aids and PLATFORM.
* GABLE - Pricked Direct.

Sheet T - 11790

* PLATFORM (east of sheet)	- This is a platform used by the Navy and is about 40 feet by 20 feet and about 15 feet high. It was located by theodolite cuts. See Forms 25la and 24A (5 sheets) for angles.
Photo Point 001	- To locate fixed aids and PLATFORM.
* PIER INTERSECTION	- Pricked Direct.
* GABLE	- Pricked Direct.
* SPIRE	- Pricked Direct.
* GABLE	- Pricked Direct.

Sheet T - 11789

Bench Mark No.3	- Established as a topo station from photo point 903.
* GABLE	- Pricked Direct.
Bench Mark No.1	- Established as a topo station from photo points 902 and 901.
* PIER	- Pricked Direct.
* AERIAL	- Established from photo point 9C
Photo Points 904 and 905	- To locate Boundary Monument. See "Boundary Report".
* ROOF	- Pricked Direct.
* GABLE	- Pricked Direct
Photo Point 906	- To determine azimuth of range at Rose Haven Harbor.
* CUPOLA	- Located from photo points 9A and 9B by distance and angle. Distance determined by short base method. See Form 25g.
* BLACK ROOF	- Pricked Direct

13. Geographic names - A report on this phase of the project has been submitted under a separate cover.

14. Special Reports and supplemental data

A plate covering the "Naval Research Laboratory, Chesapeake Bay Annex" is submitted with this Report. It is numbered Plate 2.

A Coast Pilot investigation was not made. See report T - 11792 for reasons. A "Coast Pilot Report" to change navigational restrictions in the area has been submitted under a separate cover.

Submitted 17 November 1960

George F. Wirth

George F. Wirth, Chief of Party

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT
CONTROL RECORD

MAP T- 11789 PROJECT NO. Ph-6008 SCALE OF MAP 1:10,000 SCALE FACTOR —

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
FAIRHAVEN 2, 1898	P. C. 28	N.A. 1927	335,724.55 ✓ 924,005.04 ✓	No. of sheet		102329.0 ✓ 281637.3 ✓	(Settings) 123 29.0 Pl. 1637.3
HOLLAND 3, 1907	P. C. 260 ✓		320,214.74 ✓ 934,495.85 ✓	Plots in water		97601.6 ✓ 284834.9 ✓	7601.6 4834.9
WHARF, ?				NO POSITION			
✓ BAKER, 1933	P. C. 26		324,336.09 ✓ 935,003.66 ✓	Plotted ✓		98857.8 ✓ 284989.7 ✓	8857.8 Pl. 4989.7
✓ HOL, 1933	P. C. 146 ✓		326,029.37 ✓ 934,380.40 ✓	" "		99373.9 ✓ 284799.7 ✓	9373.9 Pl. 4799.7
HOLLAND (M. S. F. C.) 1906	P. C. 222		326,109.54 ✓ 934,876.86 ✓	Plots in water		99398.4 ✓ 284951.0 ✓	9398.4 4950.4
HOLLAND NORTH 2, 1898	P. C. 222		326,166.38 ✓ 934,953.52 ✓	Plots in water		99415.7 ✓ 284974.4 ✓	9415.7 4974.4
							Pl. ETO Jan 61 ✓ HS "

1 FT. = .3048006 METER

COMPUTED BY: HS DATE Jan 1961 CHECKED BY: ETO DATE Jan. 1961

COMM-DC-57843

COMPILATION REPORT
T-11789

PHOTOGRAMMETRIC PLOT REPORT

The bridge was run in the Washington Office and the report is submitted with T-11793.

31. DELINEATION

The Kelsh Plotter was used for delineation. The field inspection was generally adequate, but it was believed the compiler could improve on the location of some of the drainage, particularly in the wooded ravines. Some drainage was also added where it was believed to be and also would be advantageous in expressing the topography. Two areas that were labeled marsh on field photo 60-S-8588 were in obvious error and were left off the manuscript. They are at approximate latitude 38°42.1', longitude 76°33.3'.
*The Anne Arundel - Calvert county line; the North Beach city limits and Chesapeake Beach city limits were delineated from the field inspection but it is believed that the field inspectors method of locating these lines is questionable. A copy of the Boundary Report is included with the Report for T-11790.

* Labeled Approximate

32. CONTROL

The primary and secondary horizontal control was adequate and placement was good. There was no vertical control.

33. SUPPLEMENTAL DATA

An insert on a Station Map of Chesapeake Bay Annex, U. S. Naval Research Laboratory showing the Navy Dock Area at Fishing Creek Harbor was used to delineate the limits of the Navy Dock.

34. CONTOURS AND DRAINAGE

Contours are inapplicable. The drainage was discussed in Item 31.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline and alongshore detail was delineated from field notes. The inspection was adequate. No low-water or shoal lines were shown.

36. OFFSHORE DETAILS

Offshore details were identified by the field inspector. In some cases the exact location of piles could not be determined so the area was indicated and labeled.

37. LANDMARKS AND AIDS

The bearing of the Range for ROSE HAVEN HARBOR, as compiled does not agree with the bearing in the 1960 Light List as follows:

Published 199° Compiled 203°05'

Form 567's were submitted for all aids and landmarks on 10 Feb. 1961 under date 26 January 1961.

38. CONTROL FOR FUTURE SURVEYS

Ten Topographic stations were located, eight (8) are natural objects and two (2) are Tidal Bench Marks which have been located as monumented stations.

39. JUNCTIONS

Junction was made with T-11790 to the south. The manuscript is bounded by the Chesapeake Bay on the east. ~~and there are no contemporary surveys on the north and west.~~ T-11789 falls in the NE part of U.S.G.S. quadrangle NORTH BEACH, Maryland scale 1:24,000 of 1953. See item 46 for comparison.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with USGS Quadrangle NORTH BEACH, MD., scale 1:24,000, dated 1956 and the minor differences are to be expected because of the differences in scale and date. Comparison was also made with USC&GS Planimetric sheet No. T-5348, scale 1:10,000, compiled from photographs taken in 1934. The comparison was also favorable.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with USC&GS Chart No. 551, 2nd edition May 23 1960, scale 1:40,000. The comparison was favorable.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

W. M. Sharpe
for E. T. Ogilby
Cartographer (Photo)

Approved and Forwarded:
V. Ralph Sobieralski
V. Ralph Sobieralski
Tampa District Officer

49. NOTES FOR THE HYDROGRAPHER

Eight (8) natural objects were located during compilation which may be useful to the hydrographer.

BLACK ROOF, 1960. - Sharp pointed black roof of lone house.

CUPOLA, 1960.

TANK, 1960. - Grey, steel. Height = 77 feet.

GABLE, 1960. - Offshore or north gable of large brown shingle house with green roof. Porch all around house.

ROOF, 1960. - Dark pointed roof on screen porch at inshore end of pier. White sides with green trim.

PIER, 1960. - Southeast corner of pier-not landing around side.

GABLE, 1960. - Offshore or east gable of large pink building with red roof. The building has a hip roof with a dormer on the N & S sides. Chimneys (2) on south side.

LARGE ANTENNA, 1960.

Two Tidal Bench Marks were located with topographic station accuracy and Forms 524 were submitted.

TIDAL B.M. 1
TIDAL B.M. 3

TIDE COMPUTATION

PROJECT NO. Ph-6008 T-11789

Time and date of exposure 0955 23 July 1960 Reference station BALTIMORE, MD. Mean range 1.0

Date of field inspection 15 NOV 1960 Subordinate station Chesapeake Beach Ratio of ranges HW -0.1 LW 0.0

	Time h.	Time m.
High tide	3	14
Low tide	9	57
Duration of rise or fall	6	43

	Height feet	Height x Ratio of ranges
High tide	1.7	(-.1) 1.6
Low tide	0.5	(0) 0.5
Range of tide		1.1

	Time h.	Time m.
High tide at Ref. Sta.	06	42
Time difference	-3	28
Corrected time at Subordinate station	3	14

	Time h.	Time m.
Low tide at Ref. Sta.	13	33
Time difference	-3	36
Corrected time at Subordinate station	9	57

	h. m.		feet		feet	Photo. No.
Time ~~H. T. or~~ L. T.	9 57	Ht. ~~H. T. or~~ L. T.	0.5	Feature bares		6058588
Required time	9 55	Tabular correction	0.0	Stage of tide above MLW		
Interval	02	Stage of tide above MLW	0.5	Feature above MLW		
Time H. T. or L. T.		Ht. H. T. or L. T.		Feature bares		
Required time		Tabular correction		Stage of tide above MLW		
Interval		Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.		Ht. H. T. or L. T.		Feature bares		
Required time		Tabular correction		Stage of tide above MLW		
Interval		Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.		Ht. H. T. or L. T.		Feature bares		
Required time		Tabular correction		Stage of tide above MLW		
Interval		Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.		Ht. H. T. or L. T.		Feature bares		
Required time		Tabular correction		Stage of tide above MLW		
Interval		Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.		Ht. H. T. or L. T.		Feature bares		
Required time		Tabular correction		Stage of tide above MLW		
Interval		Stage of tide above MLW		Feature above MLW		

M-2617-12

Computed by E.L.O. Checked by JJS

TIDE COMPUTATION

PROJECT NO. Ph-6008 T-11789

Time and date of exposure 0956 23 July 1960 Reference station BALTIMORE, MD. Mean range 0.9

Date of field inspection 9 NOV 1960 Subordinate station Fairhaven, Herring Bay Ratio of ranges HW -0.2 LW 0.0

	Time h.	Time m.
High tide	3	43
Low tide	10	22
Duration of rise or fall	6	39

	Height feet	Height x Ratio of ranges
High tide	1.7	(-.2) 1.5
Low tide	0.5	(.0) 0.5
Range of tide		1.0

	Time h.	Time m.
High tide at Ref. Sta.	06	42
Time difference	-2	59
Corrected time at Subordinate station	3	43

	Time h.	Time m.
Low tide at Ref. Sta.	13	33
Time difference	-3	11
Corrected time at Subordinate station	10	22

	h. m.		feet		feet	Photo. No.
Time ~~H. T. or~~ L. T. Required time Interval	10 22 9 56 26	Ht. ~~H. T. or~~ L. T. Tabular correction Stage of tide above MLW	0.5 0.0 0.5	Feature bares Stage of tide above MLW Feature above MLW		6058590
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		
Time H. T. or L. T. Required time Interval		Ht. H. T. or L. T. Tabular correction Stage of tide above MLW		Feature bares Stage of tide above MLW Feature above MLW		

M-2617-12

Computed by ETO Checked by IIS

FORM 182
(6-12-56)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

50. PHOTOGRAMMETRIC OFFICE REVIEW OF ADVANCE MANUSCRIPT

T- 11789

1. Projection and grids IIS 2. Title IIS 3. Manuscript numbers IIS 4. Manuscript size IIS

4a. Classification label Unclassified

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy IIS 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) IIS 7. Photo hydro stations XX 8. Bench marks IIS 9. Plotting of sextant fixes IIS 10. Photogrammetric plot report W.O. 11. Detail points IIS

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline IIS 13. Low-water line IIS 14. Rocks, shoals, etc. XX 15. Bridges XX 16. Aids to navigation IIS 17. Landmarks IIS 18. Other alongshore physical features IIS 19. Other alongshore cultural features IIS

PHYSICAL FEATURES

20. Water features IIS 21. Natural ground cover IIS 22. Planetable contours XX 23. Stereoscopic instrument contours XX 24. Contours in general XX 25. Spot elevations XX 26. Other physical features IIS

CULTURAL FEATURES

27. Roads IIS 28. Buildings IIS 29. Railroads IIS 30. Other cultural features IIS

BOUNDARIES

31. Boundary lines IIS 32. Public land lines IIS

MISCELLANEOUS

33. Geographic names IIS 34. Junctions IIS 35. Legibility of the manuscript IIS 36. Discrepancy overlay XX 37. Descriptive Report IIS 38. Field inspection photographs IIS 39. Forms IIS

40. Irving J. Saperstein — Reviewer — I. I. Saperstein
M. M. Slavney — Supervisor, Review Section or Unit — M. M. Slavney

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

Compiler _____ Supervisor _____

43. Remarks:

COMM-DC 34529

T-11789

48. Geographic Names:

Chesapeake Bay
Chesapeake Beach
Fairhaven
Fairhaven Cliffs
Fishing Creek
Herring Bay
Holland Point
North Beach
Old Colony Cove
Owings Cliffs
Rose Haven
Rose Haven Harbor

George E. Lee
Geographic Names Section
5 December 1962

REVIEW REPORT
OF SHORELINE MANUSCRIPTS
T-11789 thru T-11793
February 1963

61. General Statement

This project PH-6008 consists of five (5) shoreline manuscripts. These maps were prepared for revision of our Nautical Charts and for source material for the completion of the reimbursable project for the Maryland Department of Tidewater Fisheries.

62. Comparison with Registered Topographic Surveys

T-2395	1903	1:20,000
T-2836	1907	1:20,000
T-2842	1907	1:20,000
T-2868	1908	1:20,000
T-5348	1935	1:10,000
T-6956 a&b	1944	1:10,000
T-6957 a&b	1944	1:10,000

Cultural and shoreline changes have been continuous. T-11789 thru T-11793 are to supersede the above listed surveys for common area for nautical charting.

63. Comparison with Maps of Other Agencies

North Beach Md.	1:24,000	U.S.G.S.	1953
Prince Frederick Md.	1:24,000	U.S.G.S.	1953
Leonardtown Md.	1:24,000	U.S.G.S.	1936-1950

These are minor shoreline and cultural changes due to the difference in survey dates.

64. Comparison with Contemporary Hydrographic Surveys

None

65. Comparison with Nautical Charts

551	1:40,000	May 1960
553	1:40,000	1954 revised to Mar. 1960

See Item 47

66. Accuracy of Results and future Surveys

Subject T-sheets ~~(5)~~ have been compiled according to instructions and meet the requirements of adequacy and accuracy.

Approved by:
Chief, Cartographic Branch
Chief, Photogrammetry Div. 4/17/63

Reviewed by:
L. C. Lande
Chief, Nautical Charts Division
Chief, Operations Division

FORM C&GS-8352
(3-25-63)

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-11789

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
5551	10-23-63	G.K. Myers	~~Full~~ Part ~~Before~~ After Verification Review Inspection Signed Via R5.73 2/62080
			Drawing No. 14
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
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