5437

Form 504
Rev. Dec. 1933

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Photo
Topographic } *Sheet No.* 5437
~~*Hydrographic*~~

State Maryland

LOCALITY

Chesapeake Bay; ~~eastern Shore~~,

Worton Creek to Still Pond

Project No. HT-175

1935

CHIEF OF PARTY

J.C.Partington

U.S. GOVERNMENT PRINTING OFFICE: 1934

5437

Applied to New Comp of Chart 549 June 3 1939 Chas R. Bush Jr

Form 537a
Ed. Nov. 1929

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

REG. NO.

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 5437

REGISTER NO.

State Maryland

General locality Chesapeake Bay, ~~Eastern Shore~~

Locality Worton Creek to Still Pond.

Scale * 1:10,000 Date of ~~survey~~ compilation Sept. 20, 1935.
Date of photographs November 16, 1933.

Vessel Photo Compilation Party # 25.

Chief of party Lieut. (j.g.) J. C. Partington

~~Surveyed by~~ Photographs plotted by R.D.Cross, August 31, 1935.

Inked by R.D.Cross, September 20, 1935.

Heights in feet above ..... to ground to tops of trees

Contour, Approximate contour, Form line interval ..... feet

Instructions dated March 14, 1934., 19....

Remarks: Compilation of aerial photographs Nos. 31 to 43 inc.

* Blue Print on scale 1:9615

-STATISTICS-

on

SHEET, FIELD NO . 5437, REG. NO. T-5437

Photos No. 31 to 43.

Date of photographs November 16, 1935.3

10:15 A.M. to 12:00 noon.

Directors instructions dated March 14, 1934.

	BY	DATE FROM	TO
ROUGH RADIAL PLOT	S.M.Stoler	11-2-34	11-15-34
SCALE FACTOR (1.040)	S.M.Stoler	11-2-34	11-15-34
SCALE FACTOR CHECKED	R.D.Cross	11-16-34	11-16-34
PROJECTION	Machine Washington Office.	Feb. 1935	
PROJECTION CHECKED	J.W.Seager	2-16-35	2-16-35
CONTROL PLOTTED	R.H.Young	8-14-35	8-14-35
CONTROL CHECKED	R.D.Cross	8-21-35	8-21-35
TOPOGRAPHY TRANSFERRED	R.D.Cross	8-22-35	8-24-35
TOPOGRAPHY CHECKED	R.D.Cross	8-26-35	8-26-35
SMOOTH RADIAL LINE PLOT	R.D.Cross	8-26-35	8-31-35
RADIAL LINE PLOT CHECKED	R.D.Cross	9- 3-35	9- 3-35
DETAIL INKED	R.D.Cross	9- 3-35	9-20-35

AREA DETAIL INKED ~~R.D.Cross~~ 5.62 sq. Statute Miles (Land area)

AREA DETAIL INKED .03 sq. Statute Miles (Shoals in Water Area)

LENGTH OF SHORELINE (more than 200 meters from nearest opposite shore) 9.0 statute miles.

LENGTH OF SHORELINE(rivers and creeks less than 200 meters wide) 1.5 statute miles.

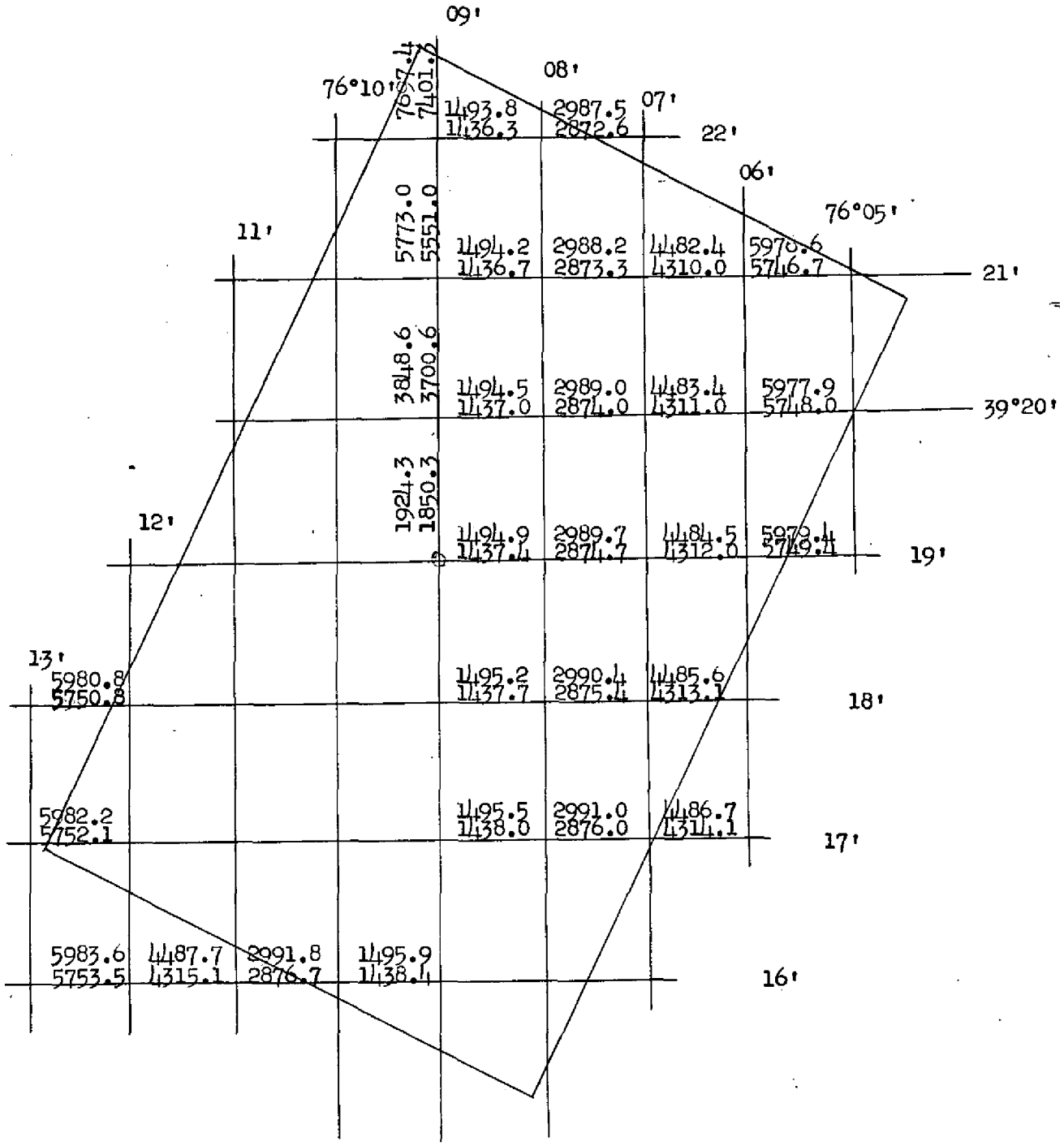
LENGTH OF STREETS, ROADS, TRAILS, R.R., etc. 17 .0 statute miles.

GENERAL LOCATION Maryland, ~~Eastern Shore of~~ Chesapeake Bay.

LOCATION Worton Creek to Still Pond.

DATUM North American 1927.

STATION Andelot 1933 Latitude: 39° 19' 07.770" = 239.6 meters
Longitude 76° 11' 08.845" = 211.9 meters
(adjusted position)



Scale factor = 1.040

Red figures are true distances multiplied by scale factor.

Projection layout for Sheet No. 5437

Layout made by R.D.Cross

Checked by J.W.Seager

Projection made on projection machine at Washington D.C. Feb. 1935

SHEET NO. 5437

SCALE FACTOR COMPUTATIONS

Photos 31-83

- - - -

Station	to	Station	Measured Distance	Computed Distance	Scale Factor Meas./Comp.
Plum Pt. Tower No. 7 1918 *		Worton Pt. Tower No. 8 1918 *	3225	3086	1.045
Plum Pt. Tower No. 7 1918 *		Stoops Pt. Tower No. 9 1918 *	7549	7240	1.043
Plum Pt. Tower No. 7 1918 *		Fairlee Tower No. 10 1918	11238	10773	1.043
Plum Pt. Tower No. 7 1918 *		Mitchells Bluff Tower No. 11 1918 r'33	14892	14272	1.043
Stoops Pt. Tower No. 9 1918 *		Worton Pt. Tower No. 8 1918 *	4726	4537	1.042
Stoops Pt. Tower No. 9 1918 *		Fairlee Tower No. 10 1918 *	3696	3540	1.044
Stoops Pt. Tower No. 9 1918 *		Mitchells Bluff Tower No. 11 1918 r'33	7345	7035	1.044
Worton Pt. Tower No. 8 1918 *		Fairlee Tower No. 10 1918	8304	7964	1.043
Mitchells Bluff Tower No. 11 1918 r'33		Swan Pt. Tower No. 14 1919 r'33	9214	8876	1.038
Mitchells Bluff Tower No. 11 1918 r'33		Treasure 1909	9057	8723	1.038
Mitchells Bluff Tower No. 11 1918 r'33		Elliason 1909	8174	7872	1.038
Mitchells Bluff Tower No. 11 1918 r'33		Gales Farm Tower No. 12 1919	2195	2102	1.044
Mitchells Bluff Tower No. 11 1918 r'33		Steel Tower No. 13 1919 r'33	5521	5310	1.040
Steel Tower No. 13 1919 r'33		Swan Pt. Tower No. 14 1919 r'33	3750	3618	1.037
Steel Tower No. 13 1919 r'13		Gales Farm Tower No. 12 1919	3348	3228	1.037
Steel Tower No. 13 1919 r'33		Treasure 1909	4121	3975	1.037

SHEET NO. 5437

SCALE FACTOR COMPUTATIONS (Cont'd)

Photos 31- 83

* * * * *

Station	to	Station	Measured Distance	Computed Distance	Scale Factor Meas./Comp.
Swan Pt. Tower No. 15 1919 r'33		Rail 1909	2081	2006	1.037
Swan Pt.Tower No. 14 1919 r'33		Elliason 1909	1670	1611	1.037

Average Scale Factor 1.040

This average scale factor is computed for the entire flight but only part of this flight (31 - 43) falls on the tracing area of this sheet..

Triangulation stations marked (*) fall on this sheet.

Computed by S.M.Stoler 11/15/34

SHEET NO. 5437

CONTROL DATA

- - - - - - -

Station	°	'	"	Meters N.A. Datum	Meters 1927 Datum	x scale Factor
Andelot 1933	39	19	07.770		(1610.7)	(1675.2)
					239.6	249.1
	76	11	08.845		(1225.4)	(1274.4)
					211.9	220.4
Handy 1935	39	17	19.945		(1235.2)	(1284.6)
					615.1	639.7
					(26.1)	(27.1)
	76	10	58.910		1411.8	1468.3
Newtown 1935	39	18	34.690		(780.5)	(811.7)
					1069.8	1112.6
					(1009.1)	(1049.5)
	76	08	17.882		428.4	445.5
Plum Pt. Tower No. 7 1918	39	20	07.274	(1626.0)	(1637.0)	(1702.4)
				224.3	213.3	221.8
				(857.7)	(853.7)	(887.8)
	76	09	24.187	579.3	583.3	606.6
Stoops Pt. Tower No. 9 1919 r'35	39	16	45.860		(436.1)	(453.5)
					1414.2	1470.8
					(1428.6)	(1485.7)
	76	12	00.411		9.8	10.2
Windmill Yacht Club 1935	39	16	18.601		(1276.7)	(1327.8)
					573.6	596.5
					(942.7)	(980.4)
	76	10	20.677		495.6	515.4
Worton Pt. Tower No. 8 1918	39	19	07.52	(1618.3)	(1629.3)	(1694.5)
				231.9	220.9	229.7
				(1256.5)	(1252.5)	(1302.6)
	76	11	07.55	180.8	184.8	192.2

DESCRIPTIVE REPORT

to accompany

PHOTO COMPILATION SHEET NO. 5437

Chesapeake Bay, Md.; ~~East Shore~~; Worton Creek to Stillpond.

Director's Instructions dated March 14, 1934.

- - - - - - - - -

1. GENERAL INFORMATION:

(a) Title:

Refer to Title Sheet.

(b) Statistics:

Refer to Statistics Sheet.

(c) General Report:

No gereral report covering this area is available. The area is a strip of land approximately two miles widw that extends along the Eastern Shore of Chesapeake Bay from Worton Creek on the south to Stillpond on the north.

The area is a typical agricultural section which is covered almost entirely with cultivated fields and small wooded areas.

(d) Photographs:

The following photographs were used in plotting this sheet:

Photo Numbers	Flight Strip Location	Date	Time	Stage of Tide
31 to 43	North and south along the Eastern Shore of Chesapeake Bay between Worton Creek and Still-Pond	11-16-33	10:15 A.M. to 12:00 noon	High 5:08 A.M. Low 11:26 A.M.

(e) Job Sheet:

Refer to Statistics Sheet.

2. CONTROL:

(a) Sources:

The position of triangulation station ANDELOT 1933 was obtained from the list of adjusted geographic positions for the State of Maryland issued recently by the U.S.Coast and Geodetic Survey. This position is on the N.A. 1927 datum (adjusted).

The positions of the following triangulation stations were obtained from the publication " Triangulation in Maryland". These positions were adjusted to the N.A. 1927 datum by subtracting 11 meters from the forward latitude position and adding 4 meters to

the forward longitude position.

Plum Pt. Tower No. 7 1918

Worton Pt. Tower No. 8 1918

The positions of the following triangulation stations were obtained from the field computations of Lieut.(j.g.) J.C.Partington, Chesapeake Bay, Tolchester Beach to Stillpond Creek; this work was done in 1935. These positions are on the N.A. 1927 datum (unadjusted).

Handy 1935

Newtown 1935

Stoops Pt.Tower No. 9 1919 r'35

Windmill Yacht Club 1935

(b) Errors:

No error in position of any control station was found by radial plot.

(c) Discrepancies:

Since there are no control stations known to exist in this area which were established by other organizations, no discrepancy was found. ?

BSG

3. COMPILATION:

(a) Method:

The usual radial line plot was used to determine the positions of all radial points.

(b) Adjustment of Plot:

Considerable difficulty was encountered in running the radial plot. This difficulty is probably the fault of the photographs since the same trouble was experienced on all photographs taken on this day. These photographs Nos. 1 to 202, were taken on November 16, 1933 with camera number 32 - 1. The trouble seems to be caused by an unusual amount of distortion near the edges of the wing photos, making it impossible to obtain good intersections when using radial points near the edges of the wing prints. The distortion is unusual because it starts near the central portionof the photograph and gradually becomes worse toward the edges. This may be due to the fact that the photograph has been rectified wrongly. A fairly good radial plot may be obtained by using only the radial points located in the central portion of the

wing prints.

The same difficulty has been mentioned in each descriptive report in which photographs Nos. 1 - 202 were used. These pictures cover a considerable area and a wide variation in clearness of both control and radial points. All of the photographs of Chesapeake Bay were taken with this camera - 32-1 - but only the flight of November 16, 1933 (Photographs 1 - 202) seem to have this trouble. It seems evident that the difficulty is the fault of this set of pictures.

No other adjustment of the plot was necessary.

(c) Interpretation:

No difficulty in interpreting the photographs was encountered.

(d) Information from other sources:

All information except names was obtained directly from the photographs.

(e) Names:

The names appearing on the overlay sheet were obtained from the following sources:

U.S.Coast & Geodetic Survey Chart No. 77
U.S.Coast & Geodetic Survey Chart No. 1226
U.S.Coast & Geodetic Survey Topographic Sheet No. 2296
U.S.Geological Survey, Betterton Quadrangle.

The only discrepancy in names appears in the name Kinnaird Pt. This name is given on the different sheets as follows:

Chart No. 77	Chart No. 1226	Topo.Sheet No.2296	Geological Survey
not named	Kinnaird Pt.	Kinnairds Pt.	Kinnairds Pt.

This is the name of a point of land between Churn Creek and Stillpond Creek. The terminal "s" given by Topo. Sheet No. 2296 and Geological Survey, Betterton Quadrangle probably denote a possessive form of the word Kinnaird. Since the possessive terminal "s" is generally dropped, the name Kinnaird Pt.is recommended for use.

A list of all other geographic names which appear on the sheet and the source from which they were obtained are as follows:

Chart No. 77	Chart No. 1226	Topo.Sheet No. 2296	Geological Survey Betterton Quad.
not named	Tims Creek	Tims Creek	not named
Worton Creek	Worton Creek	Worton Creek	Worton Creek
not named	Gales Wharf	Gales Wharf	Gales Wharf
Worton Pt.	Worton Pt.	Worton Pt.	Worton Pt.
not named	Plum Pt.	Plum Pt.	Plum Pt.
Churn Creek	Churn Creek	Churn Creek	Churn Creek

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Chart No. 77	Chart No. 1226	Topo. Sheet No. 2296	Geological Survey Betterton Quad.
Still Pond	Still Pond	Still Pond	Still Pond
not named	Rocky Pt.	Rocky Pt.	Rocky Pt.

All of the above names are recommended for use.

4. COMPARISON WITH OTHER SURVEYS:

(a) The junction of this compilation and compilation No. 5428 is not satisfactory. There is a discrepancy of approximately 15 meters in the position of detail along this junction. This is probably due to the fact that the radial plot for compilation No. 5428 was run before the positions of all the triangulation stations established by Lieut.(j.g.) J.C.Partington in 1935 were made available.

At the time of running the radial plot for compilation No. 5428, triangulation had been extended north to the line Stoops Pt. Tower No. 9 to Buck and it was unlikely that further triangulation could be done, due to lack of funds. When additional funds were available in July 1935, triangulation was extented north from the above mentioned line and the positions of stations Windmill Yacht Club, Handy, and Newtown were established. Since the positions of all triangulation stations were used in the compilation of sheet 5437, it is believed that this sheet is correct and that sheet 5428 is in error.

Sheet No. 5428 is now in the Washington Office. It is recommended that the two sheets be joined and the radial plot run through in order to make this junction satisfactory. *This has been accomplished Lam. Feb. 28, 1936.*

(b) The ~~only available~~ *most recent plane table* topographic sheet of this area is the U.S.Coast and Geodetic Survey sheet No. 2296. This sheet is very old and so many changes have taken place since it was completed that it cannot be used to check the accuracy of the photo compilation. In general the positions of the creeks and shoreline check very well but so many small changes have occured thruout that it is recommended that the photo compilation be accepted as correct .

5. LANDMARKS:

U.S.Coast and Geodetic Survey charts Nos. 77 and 1226 show a light located on Worton Pt. According to the "Local Light and Buoy List, Cape May to Cape Lookout, 1934 ", this light is located on a watch tower and is operated only during ice season. The only tower in the vicinity is triangulation station "Worton Pt. Tower No. 8 1918" and the light is probably located on this tower. The positions of this tower and "Plum Pt. Tower No. 7 1918" are given on Form 567 enclosed. These are Army Observation Towers, consisting of a square house mounted on wooden legs, and approximately 40 feet above the ground.

DESCRIPTIVE REPORT

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6. RECOMMENDATIONS FOR FURTHER SURVEYS:

(a) The compilation is believed to have a probable error of 3 to 5 meters in position of well defined detail of importance for charting, and of 5 to 10 meters for other data.

(b) The width of roads has been exaggerated where necessary to procure well defined lines when the sheet is reproduced.

All houses are shown except where otherwise stated on the overlay.

7. RECOVERABLE OBJECTS:

There are no recoverable H.& T. stations in the area covered by this sheet.

Respectfully submitted,

R.D.Cross
Surveyor

Approved and Forwarded:

J.C. Partington

J.C.Partington
Junior H.& G.E.
Chief of Party

Form 567
v. March 1935

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE DELETED~~ } STRIKE OUT ONE

Baltimore, Md. Nov. 12, 1935 193

I recommend that the following objects which have (~~have not~~) been inspected from seaward to determine their value as landmarks, be charted on (~~deleted from~~) the charts indicated.

The positions given have been checked after listing.

J.C.Partington *Chief of Party.*

GENERAL LOCALITY Upper Chesapeake Bay Eastern Shore NAME AND DESCRIPTION	POSITION LATITUDE ° ′	LATITUDE D. M. METERS	LONGITUDE ° ′	LONGITUDE D. P. METERS	DATUM	METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
TOWER (△Worton Pt. Tower No. 8 See No. ~~1595~~ 1996 in Light List)	39 19	220.9	76 11	181.8	N.A. 1927	Triang.	1918	x	x		1226
Tower (△Plum Pt. Tower No. 7)	39 20	213.3	76 09	583.3	N.A. 1927	Triang	1918	x	x		1226
			Compiled by	R.D.Cross							
			Checked by	J.C.Partington							
These are U.S.Army observation towers consisting of a wooden building mounted on wooden legs, height about 40 feet. They are used by the Aberdeen Proving Ground for the control of artillery fire.											

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." 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.

U. S. GOVERNMENT PRINTING OFFICE

	Remarks	Decisions
1		
2		
3		
4	Rock Pt on T 212	
5		
6	Kinnaids Pt on U.S.G.S. Quad. On T 2296 from whence this name originates	
7	it appears to be a general term applied to the point as a neck and not to any	
8	specific point. However as long as Point is used it should apply to a specific point	
9		
10	See note on T 187	
11		
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M 234

GEOGRAPHIC NAMES

Survey No.
T-5437

Name on Survey	A On Chart No. 1226	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K	
Chesapeake Bay ✓										1
St ill Pond ✓	*	T212 ✓	✓							2
Plum Point ✓	*	T2296	✓							3
Rocky Point ✓	*	✓	✓							4
Churn Creek ✓	*	✓	✓				✓			5
Kinnaird Point ✓	*									6
Worton Point ✓	*	T212 ✓	✓				✓			7
Worton Creek ✓	*	T187 ✓	✓							8
Gales Wharf ✓	*	T2296 ✓	✓							9
Tims Creek ✓	*	✓ T2296								10
Handys Point ✓	*									11
Green Point Wharf ✓	*									12
										13
										14
										15
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										27

Names underlined in red approved
by K.T.A on 1/29/36

M 234

REVIEW OF AIR PHOTO COMPILATION NO. T-5437 (1936)
1/10,000.

Comparison with Previous Topographic Surveys.

T-187 (1845) 1:20,000. The survey for T-187 covers the Eastern shore of Chesapeake Bay between Swan Point and Worton Point. There are changes of topographic detail. T-187 is superseded by this compilation over the common area.

T-212 (1845) 1:20,000. The survey for T-212 covers a large portion of Upper Chesapeake Bay. There are changes of topographic detail. T-212 is superseded by this compilation over the common area.

T-2296 (1897) 1:20,000. The survey for T-2296 covers the east shore of Chesapeake Bay between Swan Point and Still Pond. T-2296 shows contours. There are marked changes of shoreline in Churn Creek and Worton Creek. Gales Wharf is now in ruins. A large number of orchards shown on T-2296 over this common area are no longer in existence. Except for contours T-2296 is superseded by this compilation over the common area.

There are no recent plane table of, or hydrographic survey in the area of this compilation.

Comparison with the Chart.

Chart No. 1225.

The two submerged rocks shown on this chart near Worton Point can not be seen on the photographs but are not disproved. They will not be shown on this compilation.

Changes to be made to this chart as a result of this survey are discussed in the comparisons above with previous topographic surveys.

Lenard A. McKenney
Feb 29. 1936.

B.G. Jones

REVIEW OF AIR PHOTO COMPILATION NO. 5437

Chief of Party: J.C. Partington Compiled by: R.D. Cross

Project: HT-175 Instructions dated: March 14, 1934

1. The charts of this area have been examined and topographic information necessary to bring the charts up to date is shown on this compilation. (Par. 16a, b, ~~f~~, d, e, g and i; 26; and 64)

2. Change in position, or non-existence of wharfs, lights, and other topographic detail of particular importance to navigation which affect the chart, is discussed in the descriptive report. (Par. 26; and 66 g,n)

3. Ground surveys by plane table, sextant, or theodolite have been used to supplement the photographic plot where necessary to obtain complete information, and all such surveys are discussed in the descriptive report. (Par. 65; and 66 d,e)
No ground surveys.

4. Blue-prints and maps from other sources which were transmitted by the field party contain sufficient control for their application to the charts. (Par. 28)
No blue-prints or maps from other sources transmitted.

5. Differences between this compilation and contemporary plane table and hydrographic surveys have been examined and rectified in the field before forwarding the compilations to the office and are discussed in the descriptive report.
No contemporary plane table or hydrographic surveys.

6. The control and adjustment of the photo plot are discussed in the descriptive report. Unusual or large adjustments are discussed in detail and limits of the area affected are stated. (Par. 12b; 44; and 66 c,h,i)
See paragraph No. 3 of Descriptive Report.

7. High water line on marshy ~~and mangrove~~ coast is clear and adequate for chart compilation. (Par. 16a, 43, and 44)
High water line on sand beach traced from photographs with notes and sketches by field inspection party.
L.A.M.

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Refer also to the pamphlet "Notes on the Compilation of Planimetric Line Maps from Five Lens Air Photographs." M-87

8. The representation of low water lines, ~~reefs, coral reefs and rocks,~~ and legends pertaining to them is satisfactory. (Par. 36, ~~37~~, ~~38~~, 39, 40, 41)

9. Recoverable objects have been located and described on Form 524 in accordance with circular 30, 1933, circular letter of March 3, 1933, and circular 31, 1934. (Par. 29, 30, and 57)
No recoverable objects have been described.

10. A list of landmarks was furnished on Form 567 and instructions in the Director's letter of July 16, 1934, Landmarks for Charts, complied with. (Par. 16d, e; and 60)

11. All bridges shown on the compilation are accompanied by a note stating whether fixed or draw, clearance, and width of draw if a draw bridge. Additional information of importance to navigation is given in the descriptive report. (Par. 16c)
No bridges on this sheet.

12. Geographic names are shown on the overlay tracing. The accepted local usage of new names has been determined and they are listed in the report, together with a general statement as to source of information and a specific statement when advisable. Complete discussion of place names differing from the charts and from the U. S. G. S. Quadrangles is given in the descriptive report, together with reasons for recommendations made. (Par. 64, and 66k)

13. The geographic datum of the compilation is North American 1927 and the reference station is correctly noted.

14. Junctions with adjoining compilations have been examined and are NOT in agreement. (Par. 66j)
See Descriptive Report Paragraph No. 4
The junction with T-5428 is now satisfactory. [illegible]

15. The drafting is satisfactory and particular attention has been given the following:

    1. Standard symbols authorized by the Board of Surveys and Maps have been used throughout except as noted in the report.

    2. The degrees and minutes of Latitude and Longitude are correctly marked.

3. All station points are exactly marked by fine black dots. ✓

4. Closely spaced lines are drawn sharp and clear for printing. ✓

5. Topographic symbols for similar features are of uniform weight. ✓

6. All drawing has been retouched where partially rubbed off. ✓

7. Buildings are drawn with clear straight lines and square corners where such is the case on the ground. ✓

(Par. 34 ✓, 35 ✓, 36 ✓, ~~37~~ ✓, ~~38~~ ✓, 39 ✓, 40 ✓, 41 ✓, 42 ✓, 43 ✓, 44 ✓, 45 ✓, 46 ✓, 48 ✓)

16. No additional surveying is recommended at this time.

17. Remarks:

18. Examined and approved;

J. C. Partington
Chief of Party

19. Remarks after review in office:

Reviewed in office by: Linard A. Mebane Feb. 29, 1936.
V.S.G. Jones

Examained and approved:

E. K. Green
Chief, Section of Field Records

Fred. L. Peacock
Chief, Section of Field Work

L. O. Colbert
Chief, Division of Charts

G. Rude
Chief, Division of Hydrography and Topography.