

10410

Diag. Cht. No. 5502.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric

Field No. Ph-159 Office No. T-10410

LOCALITY

State California

General locality Sonoma County

Locality Bodega Bay

1945-57

CHIEF OF PARTY

V.R.Sobieralski, Chief of Field Party

A.L.Wardwell, Tampa Photo, Office

LIBRARY & ARCHIVES

DATE July 31, 1959

10410

DESCRIPTIVE REPORT - DATA RECORD

T - 10410

Project No. (II): **Ph-159**

Quadrangle Name (IV):

Field Office (II): **Portland, Oregon**
Sub Party: **Point Reyes Station, Calif.**

Chief of Party: **V. Ralph Sobieralski**

Photogrammetric Office (III): **Tampa, Florida**

Officer-in-Charge: **Arthur L. Wardwell**

Instructions dated (II) (III): **Project 6159, 3 July 1956 - Field**
Compilation - Project 25160, 13 Aug. 1956
Project 25160 - 22 Oct. 1956, Suppl. I (Field)
Office - Supplement 1 - Project Ph-159, 4 Oct. 1957

Copy filed in Division of
Photogrammetry (IV)

Method of Compilation (III): **Kelsh Plotter**

Manuscript Scale (III): **1:10,000**

Stereoscopic Plotting Instrument Scale (III): **1:5,000**

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): **2/17/59**

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): **N. A. 1927**

Vertical Datum (III): **MEW**

~~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): **MAN, 1930**

Lat.:

Long.:

Adjusted

~~*****~~

Plane Coordinates (IV):

State: **Calif.**

Zone: **3**

Y= **681,998.32 FT.**

X= **1,271,277.78 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.

3

Date: Jan. thru Apr. 1957

July - Aug. 1956

Date:

Date: _____

~~Jan. - Feb. 1957~~

~~Air photo compilation~~ ✓

Date: **23 Aug. 1956**

Date: **23 Aug. 1956**

Date: **Feb. 1958** ✓

Date: **Feb. 1958**

Date:

Date: **Feb. 1958**

Date:

Date: **Feb. 1958**

Date: 18 Apr. 1958

Date:

DESCRIPTIVE REPORT - DATA RECORD

PLANIMETRIC

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

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): **CIGS WILD**

Diapositives & PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
55W-630	10 Oct. 1955	1028	1:25,000	+ 3.3
55W-636	"	1037	"	+ 3.2
55W-637	"	1037	"	+ 3.2
55W-638	"	1037	"	+ 3.2
55W-679	"	1100	"	-

Predicted Tide (III)

Reference Station: **San Francisco**
Subordinate Station: **Bodega Harbor Entrance**
Subordinate Station:

Diurnal

Ratio of Ranges	Mean Range	Spring Range
H.W. 0.2	3.9	5.7
L.W. 0.0	3.7	5.6

Washington Office Review by (IV): **S.G. Blankenbaker**

Date: **Feb., 1959**

Final Drafting by (IV): **Field office
TAMPA**

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): **12**
Shoreline (More than 200 meters to opposite shore) (III): **5**
Shoreline (Less than 200 meters to opposite shore) (III): **-**
Control Leveling - Miles (II): **none**
Number of Triangulation Stations searched for (II): **10**
Number of BMs searched for (II): **5**
Number of Recoverable Photo Stations established (III): **0**
Number of Temporary Photo Hydro Stations established (III): **0**

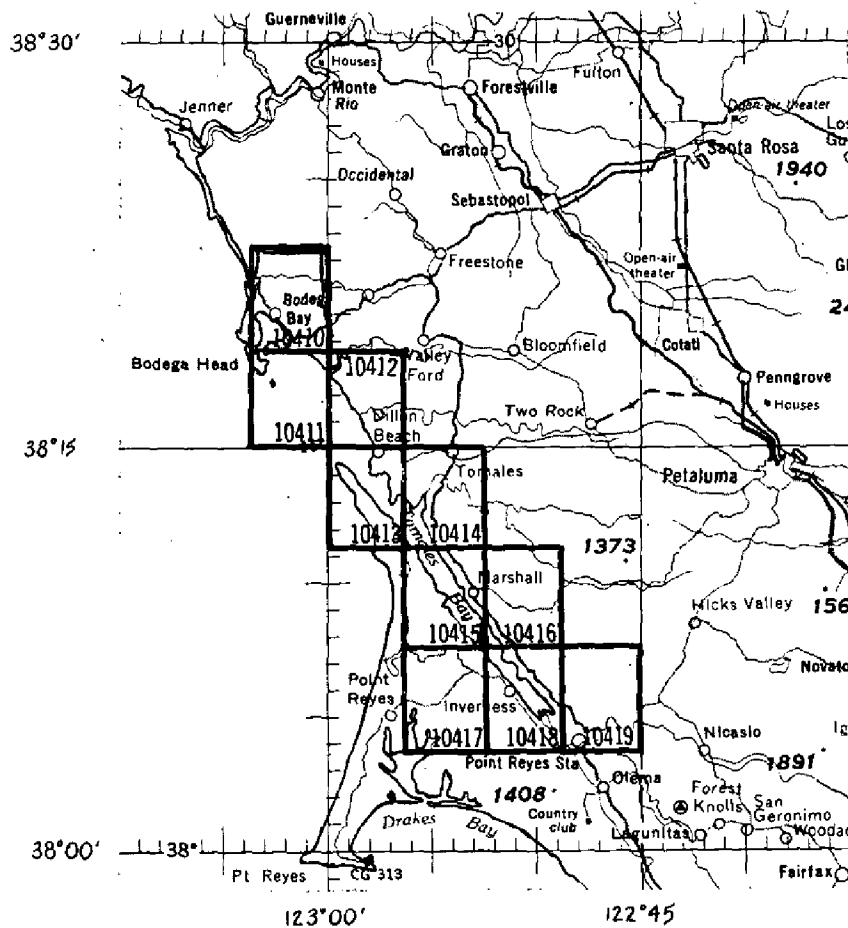
Recovered: **5** Identified: **6***
Recovered: **2** Identified: **2**

Remarks: **In addition to those triangulation stations recovered, 1 marked ground triangulation and 7 intersection stations were established.**

* One station, **WHITE WATER TANK, 1930**, was identified (doubtful), but the form 526 states it is destroyed.

PLANIMETRIC PROJECT 25160 TOMALES AND BODEGA BAYS, CAL.

5



38 14
38 11 15
3.1
15 07

OFFICIAL MILEAGE FOR COST ACCOUNTS

SHEET NO.	AREA SQ. MI.	LN. MI. SHORELINE
10410	12	5
10411	1	2
10412	11	4
10413	6	13
10414	12	3
10415	9	9
10416	13	1
10417	13	1
10418	10	7
10419	14	0

TOTALS 101 45

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Summary to Accompany Descriptive Report T-10410

Planimetric map T-10410 is one of ten similar maps in project PH-159 and is the northerly map in the project. It covers Bodega Bay and the adjacent land area.

This is an instrument compilation project. Field operations accomplished in 1956 and 1957 included field inspection and the establishment of some additional horizontal control. The 1956 field party recovered and identified horizontal control for use in stereoplanigraph bridging and compilation of the "Incomplete Manuscripts" used to provide shoreline for hydrographic surveys made in the same area. The 1957 field party completed the field inspection for use in completing the planimetric manuscripts.

The bridging and compilation of the "Incomplete Manuscripts" was accomplished in the Washington Office. The compilations were completed with the Kelsh Plotter in the Tampa Office.

Items register under T-10410 will include a Descriptive Report and a positive impression on "Cronar" of the scribed copy of the manuscript.

MAP T. 10410

PROJECT NO. 6159

SCALE OF MAP 1:10,000

SCALE FACTOR 1.0

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR μ -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)
Salmon Creek Black Tank, 1934		N.A. 1927 Zone III	683, 527.89 1265, 285.28	038°20' 18" 16.51m approx 2123°23' 10.58.1m approx			
Amos 1930		" III	689, 085.90 1263, 225.94	West of sheet			
Irish Hill (USGS) 1942		" III	703, 292 1271, 888	Outside man. limits			
White Barn Gable 1930		" III	695, 836.51 1261, 557.39				
White Rock $\frac{1}{2}$ mile n of Rocky Pt 1930		" III	703, 284.81 1255, 027.26				
Wright 1942 (USGS)		" III	705, 185.06 1263, 173.23				
S S Wright		"	705, 040.88 1263, 323.98				
DORAN, 1957	Field Comp.	N. A. 1927	3838 181850.041 123 02 38.747			1542.9 (307.1) 941.3 (516.3) 607.5 (1242.5) 914.4 (542.8)	
Bodega Harbor W. T. 1957	"	"	38 20 19.703 123 02 37.653			1469.2 (380.8) 94.4 (1363.3)	
Bodega Harbor Upper Range Front Lt. 8, 1957	"	"	38 18 47.650 123 03 03.888			698.0 (1152.0) 70.0 (1378.5)	
Bodega Harbor Channel Lt. 14, 1957	"	"	38 19 22.637 123 03 03.254				

1 FT. = 3048006 METER *WASH. Office*
COMPUTED BY: *Steebse. Inst. Sect.*

DATE

CHECKED BY

DATE

COMM-DC-57843

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

MAP T. 10410 PROJECT NO. 6159 SCALE OF MAP 1:10,000 SCALE FACTOR 1.0

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR χ -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)
1930	446	NA 1927	702, 660.61	Outside Manuscript			
Redwood 2	pg 7/9	Zone III	1277, 678.61	limits			
SS			702, 657.99	"			
Redwood 2 1930		"	1277, 644.51				
Bodega Hill	446		690, 919.38				
1860 dm.	pg 6/9	"	1267, 349.16	Outside Manuscript limits			
SS Bodega Hill			691, 014.17	Outside Manuscript			
(Rm No. 1)		"	1267, 302.36	limits			
ANDY 1930	446	"	694, 021.48	Outside Manuscript			
	pg 7/11		1260, 413.70	limits			
S. S. Andy		"	694, 058.60	"			
Rocky Pt 2	446		1260, 431.12				
1929	pg 7/10	"	700, 087.16	"			
Rocky Pt 2			1256, 743.61	"			
RM		"	700, 251.81	"			
Sand Hill 2	446		1256, 824.16				
1929	pg 6, 13, 15/ 10	"	679, 047.23				
SS Sand Hill 2			1265, 466.75				
		"	678, 935.60				
MOAN 1930	446		1265, 538.13				
Bay White	pg 6/11	"	681, 998.32				
Tower 1930	/11	"	1271, 277.78				
			676, 713.13				
			1269, 754.47				

1 FT. = 3048006 METER Wash. Office
COMPUTED BY: Steyer. Inst. Sect.

DATE

CHECKED BY:

DATE

COMM-DC-57843

COMPILATION REPORT T-10410

PHOTOGRAMMETRIC PLOT REPORT

The stereoplanigraph bridge was run in the Washington Office. ✓

31. DELINEATION

The "INCOMPLETE MANUSCRIPT", with shoreline, alongshore features, some roads, and shoreline pass points was compiled in the Washington Office. ✓

The manuscript has been completed using the Kelsh Plotter. ✓
Corrections were made to the shoreline from the field inspection photograph by holding the shoreline pass points. ✓

The field inspection was satisfactory. Scrub shown as S on the field prints were shown as open on the compilation. ✓

32. CONTROL

The density of primary and secondary control was adequate. ✓

33. SUPPLEMENTAL DATA

Two maps showing the boundaries of SONOMA COAST STATE PARK and DORAN PARK were used: ✓

1. "Plan of SONOMA COAST STATE PARK." ✓

2. "Plat (DORAN PARK) showing lands to be acquired for park and road purposes in Bodega Rancho." ✓

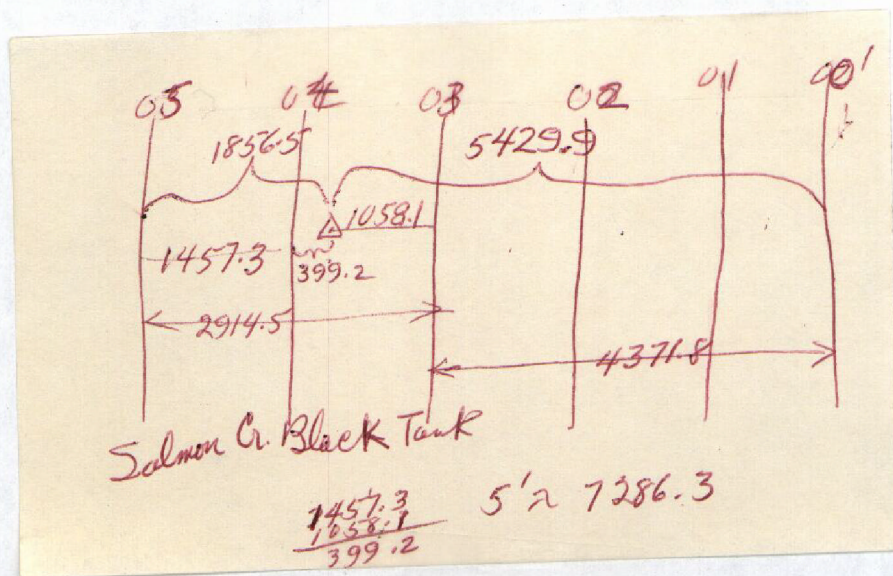
34. CONTOURS AND DRAINAGE

Contouring not applicable. ✓

Drainage shown was from field inspection and office interpretation. ✓

35. SHORELINE AND ALONGSHORE FEATURES

The high-water line was delineated according to the field inspector's notes, see item 31. The field inspection is adequate. The approximate low-water and shallow areas were delineated according to office interpretation of the photographs. ✓



36. OFFSHORE DETAILS ✓

All offshore wrecks have been shown according to the field inspector's notes. ✓

37. LANDMARKS AND AIDS ✓

of the

Three aids to navigation, located on the "INCOMPLETE MANUSCRIPT" by the Washington Office, could not be held. These were:

DAYBEACON 23, moved 1.1 mm east ← TRIANGULATION 1957 check this pos.

DAYBEACON 10, moved 1.0 mm WSW ← THIS CHECKS TRIANGULATION 1957

UPPER RANGE FRONT LIGHT 8, moved 0.6 mm WSW
and held the triangulation position.

The new positions are shown on the form 567. ✓

38. CONTROL FOR FUTURE SURVEYS ✓

None. ✓

39. JUNCTIONS ✓

Junctions have been made with the following: ✓

DUNCAN MILLS - U.S.G.S. 1:24,000 - to the north
BODEGA HEAD - U.S.G.S. 1:31,680 - to the west
VALLEY FORD - U.S.G.S. 1:24,000 - to the east
T-10411 - to the south ✓

40. HORIZONTAL AND VERTICAL ACCURACY

No statement. ✓

41. BOUNDARIES

The boundary of SONOMA COAST STATE PARK was delineated according to the plan submitted, except for the line from PCB 24 to PCB 25 which was shown according to the field inspector's notes on the plan. The boundary from PCB 16 to B-1 is in dispute. PCB 15 may be misidentified on the photograph. When plan was reduced to scale of manuscript and laid under sheet, PCB 12 fell where PCB 15 was indicated. ✓

The boundary of DORAN PARK was delineated according to the plat submitted. ✓

46. COMPARISON WITH EXISTING MAPS ✓

Comparison has been made with U.S.G.S. quadrangle BODEGA HEAD, CALIFORNIA, 1:31,680, 1942, reprinted by A.M.S. in 1947 at 1:25,000. ✓

The quadrangle and the manuscript compare favorably, except that part of County Highway 1 has been relocated; and the greater part of an ungraded road along the north and west shore of Bodega Harbor outside the high-water line has been relocated and improved. ✓

There are no planimetric maps available in this office. ✓

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Chart 5603, 1:30,000, edition of 1934, corrected 4 February 1952. No appreciable differences were noted. ✓

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD ✓

None.

Irving I. Saperstein
I. I. Saperstein
Carto Photo Aid

APPROVED AND FORWARDED ✓

Arthur L. Wardwell
Arthur L. Wardwell
Chief of Party

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T-10410

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

5. Classification label Unclassified

CONTROL STATIONS

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

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

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

BOUNDARIES

31. Boundary lines MMS 32. Public land lines XX

MISCELLANEOUS

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

40. Milton M. Slavney
Reviewer

William A. Rasure
Supervisor, Review Section or Unit

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:

Review Report
 Planimetric Survey T-10410
 Jan., 1959

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

1430a	1:20,000	1876
4596	1:10,000	1930

T-10410 supersedes the older surveys for nautical charting purposes in common areas.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Bodega Head, Calif.	1:24,000	1942
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64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

H-8353	1:10,000	1957
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The MHW line and other details were transferred from T-10410 (Incomplete Manuscript) to the boat sheet prior to sounding. T-10410 was compared with the smooth sheet. The positions of some of the aids to navigation are in error on the smooth sheet. New positions were established by Kelsh Plotter and triangulation.

65. COMPARISON WITH NAUTICAL CHARTS

5603	1:30,000	1934	Revised 4/28/59
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Differences exist in the shoreline and alongshore cultural features.

I presume this should be checked against the old chart

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This map complies with the National Standards of Map Accuracy and Bureau Requirements.

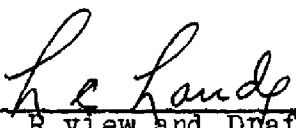
67. BUILDINGS

Inspection and delineation of all class 1 and 2 buildings was required by project instructions. In compliance with Photogrammetry Instruction No. 54 only landmark buildings are delineated on the manuscript.

Reviewed by:

S. G. Blankenbaker
 S.G. Blankenbaker

Approved by:


Chief, Review and Drafting Section
Photogrammetry Division


Chief, Nautical Chart Branch
Charts Division


Chief, Photogrammetry Division
20 July 59


Chief, Coastal Surveys Division

T-10410

Geographic Names.Alice PeakBay Hill RoadBodega Bay (water area)Bodega Bay (small town)Bodega HarborBodega IslandBrooks GulchCaliforniaColeman HillColeman Valley CreekColeman Valley RoadCheney GulchDoran BeachDoran ParkEsterro LaneFay CreekFinley Creek (all available maps have this spelling, not Finlay)Fitzpatrick LaneGreen CreekHole in RockIrish HillJohnson GulchMantua GulchMarshall GulchMountain RockMount RoscoePepperwood GulchQuinlan GulchRobinson RockSalmon Creek (stream)Salmon Creek (village)Sheep RidgeSonoma Coast State ParkSwallow CityTwo RocksWatercress GulchState No. 1 (preferable to County No. 1)

Names approved 9-17-58

L. Heck. L.H.

TO BE CHARTED
~~TO BE CHARTED~~

STRIKE OUT ONE

NONFLOATING AIDS ~~DISAPPEARING~~ FOR CHARTS

Tampa Florida

5 August 1951

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

The positions given have been checked after listing by L. I. Saperstein

Arthur L. Wardwell

Applied in 1.709 (58)

Chief of Party

STATE CALIFORNIA				POSITION					METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHART AFFECT
CHARTING NAME	DESCRIPTION	SIGNAL NAME	LATITUDE*		LONGITUDE*			DATUM						
			°	'	°	'	"							
BODEGA BAY					D.M. METERS			D.P. METERS						

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. The data should be considered for the charts of the area and not b individual field survey sheets. Information under each column heading should be given.

DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

NONFLOATING AIDS ORIENTEDNESS FOR CHARTS

TO BE CHARTED
~~#508 EXD ENL EMBL~~

STRIKE OUT ONE

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

The positions given have been checked after listing by **I. I. Saparstein**

Applied via L. 709(58)

Arthur L. Wardwell

Chief of Party:

[illegible]

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. The data should be considered for the charts of the area and not for individual field survey sheets. Information under each column heading should be given.

DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

TO BE CHARTED

STRIKE OUT ONE

Tampa Florida

5 August

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IDENTIFYING THE LANDMARKS FOR CHARTS

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

The positions given have been checked after listing by **I. X. Saperstein** on **10/20/66**; the charts indicated.

Applied. via L. 709 (58)

Arthur L. Wardwell

Chief of Party

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloat* aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not for the charts of other areas. Information under each column heading should be given.

INCLUDED IN THE PROJECT COMPLETION REPORT:
(1) Two (2) Field Inspection Reports 1956-1957
(2) Three (3) combined Bridging & Compilation Reports
(3) Bridging sketch

THE 1956 AND 1957 FIELD INSPECTION REPORTS

WERE BOUND AS SEPARATE REPORTS

NAUTICAL CHARTS BRANCH

SURVEY NO. T-10410

Record of Application to Charts

[illegible]

M-2158-1

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.