

7067

Graphic Control

Diag'd. on Diag. Ch. No. 5530-4

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey GRAPHIC CONTROL
BO-D-47
Field No. (Revised 1948) Office No. T-7067 G.C.

LOCALITY

State California

General locality San Francisco Bay

Locality Raccoon Strait, Belvedere Cove,
Richardson Bay

194 7-'48

CHIEF OF PARTY

W.M. Gibson

LIBRARY & ARCHIVES

DATE Dec. 14, 1949

B-1870-1 (1)

7067

Graphic Control

DEC 14 1949

Form 537a

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

REG. NO. - T-7067 Graphic Control

Each Topographic and Graphic Control Sheet, and each Air Photographic Drawing should be accompanied by this form, completed so far as practicable, when forwarded to the Washington office.

Registry No. T-7067 G.C.

Field No. BO-D-47(Revised 1948)

Scale 1:10,000

State California General locality San Francisco Bay

Specific locality Raccoon Strait

Dates: Survey began 30 Sept. 1948 Completed 15 Oct. 1948

Photography, Supplemented by ground surveys to

Project No. CS 256 Instructions dated 16 Nov. 1940 - 24 April 1947

Vessel } # Ship BOWIE Chief of party W.M. Gibson
###

Field work by R.A. Marshall Office work by R.A. Marshall

Final inking by

Ground elevations } in feet above { M. H. W.
Treetop elevations } or

Contours } by { Planetable
Approximate contours } Multiplex } Interval ft.
Form lines }

REMARKS Revision work on this sheet was made in accordance with

Director's letter dated 23 Sept. 1948 (22/MEK - S-1-BOWIE)

Project CS - 256
Descriptive Report to Accompany
Topographic Sheet BO-D-47 (Revised 48)
T-7067 (1948)

December 1948

Instructions dated 11/16/40
Supp. Instructions dated 4/24/47

PURPOSE:

The original sheet BO-D-47 was returned to this vessel for revision because in the process of establishing control for Richardson Bay hydrographic Sheet 1447 it was found that some of the stations used to control BO-D-47 were in error. For the sake of clarity it was deemed advisable to make a new projection.

LANDMARKS:

As charted are adequate.

CONTROL:

New positions for the following points were determined by triangulation during 1948:

Sausalito Fog Signal
Pt. Blunt Light

Chi
Pipe
Cone Rock
Oke

} These signals, which were topographic locations on 1947 sheet are now located by triangulation.

Pt. Stuart Lighthouse and Pt. Knox Lighthouse were re-determined in 1948 and found to check 1928 positions.

The station at Lime Pt. called Lime Point Lighthouse. South Stack on BO-D-47 is lost. The position of a new station called "CHIM" was determined by triangulation. This station "CHIM" is the south chimney of the main dwelling at Lime Point Lighthouse.

Yellow Bluff Light shown as triangulation on BO-D-47 was re-determined by Topo on BO-D-47 (Revised 48).
T-7067 (1947)
T-7067

The positions of stations Pipe, Cone Rock and Chi were scaled from the topographic sheet since they were determined by theodolite cuts from triangulation stations and plotted graphically with a steel protractor. All triangulation data had been forwarded to Washington before these positions could be computed.

For the most part signals were located by cuts from set-ups at triangulation stations or from positions determined by a three point fix (Southampton Shoal Lighthouse, Pt. Stuart Lighthouse and Range was the fix most frequently used).

A few of the signals were rodded in from the setups with check cuts being taken in most all cases.

The following signals located on the original sheet could not be found: Flag, Sign, Pod, Roof, Bush, Ray, Fox. T-7122 (1948)

The following stations which were on the original sheet have been left off the revised sheet since they are shown on BO-D-48; however to facilitate any work involving these stations the DM's and DP's were scaled from BO-D-48 (T-7122, 1948)

Doc	37-52	316 meters	122-28	194 meters
Blv	37-52	42 meters	122-27	1279 meters
Bell	37-51	722 meters	122-28	833 meters

A list showing the new positions of recoverable topographic stations accompanies this report.

It is recommended that triangulation positions of Chi, Pipe and Cone Rock be computed and plotted on the sheet.

Landmarks L1028 (49)

R.A. Marshall
R.A. Marshall
Lt. Comdr. USC & GS

Approved:

W.M. Gibson
W.M. Gibson
Chief of Party

*Note: See Review notes
on following page*

REVIEW - T-7067 (rev. 1948)

A total of twenty-one signals, seventeen of which are along the west shore of Raccoon Strait (Box to Tip) were found to conflict with prior triangulation and topographic features. By the aid of planimetric shoreline detail, air photographs and the signal descriptions, these signals have been relocated. Their revised locations which range from 5 to 30 meters distant from the locations furnished on T-7067 (1948) have been indicated on the graphic control sheet of that survey. The revised locations are identical with those used to control the hydrography on H-7704 (1948).

Inasmuch as the adjusted positions of the erroneously located signals are not necessarily of graphic control accuracy, caution should be exercised in their further use.

J. A. Dinamore

4/30/51

CRHC

Recoverable Topographic Stations
Sheet BO-D-47 (Revised 1948)

T-7067

NAME	LATITUDE		METERS	LONGITUDE		METERS
	°	'		°	'	
Car	37	49	999	122	28	931 ✓
Sand	"	"	1513	"	"	952 ✓
Ma	"	"	1788	"	"	836 ✓
Tum	"	"	1838	"	"	863 ✓
Ros	37	50	139	"	"	553 ✓
Pink	37	52	384	122	25	565 ✓
Shed	"	"	490	"	"	751 ✓
New	"	"	615	"	"	1100 ✓
Water	"	"	227	"	"	1391 ✓
Bar	"	"	254	122	26	51 ✓
Gal	37	51	1807	"	"	131 ✓
Bill	"	"	1846	"	"	203
Row	37	52	209	"	"	378
In	37	51	1388	"	"	640
Gab	"	"	1059	"	"	789
Yellow Bluff						
Light	37	50	370	122	28	394
Del	"	"	1127	"	"	693
Step	37	51	64	"	"	1029
Tack	"	"	397	"	"	967
Rock	"	"	1630	122	27	1054
Box	"	"	1354	"	"	610
Hex	"	"	1532	"	"	664
Twin	"	"	1813	"	"	706
Arm	37	52	175	"	"	890
Mast	"	"	623	"	"	1076
Road	"	"	848	"	"	859
Tib	"	"	527	"	"	505
Stan	"	"	675	"	"	442
Slip	"	"	573	"	"	172
Red	"	"	549	"	"	170
Lite	"	"	579	"	"	118
Lime	"	"	582	122	26	1416
Tower	"	"	753	"	"	1295

Ch 5535 - Examined - added 1stets - Topo not changed at this time; out only slightly
 7/12/51 - NWB.
 Partially Applies

Recoverable Topographic Stations - (continued)

NAME	LATITUDE		METERS	LONGITUDE		METERS
	°	'		°	'	
Gray	37	52	915	122	26	1215
Fire	"	"	1017	"	"	954
Saw	"	"	1056	"	"	773
Set	"	"	1377	"	"	852
Stall	"	"	1591	"	"	652
Raft	"	"	1565	"	"	547
Pit	"	"	1504	"	"	398
Tip	"	"	1567	"	"	363
Was	"	"	1845	"	"	395
Beam	37	53	529	"	"	862

Triangulation Stations

NAME	LATITUDE		METERS	LONGITUDE		METERS
	°	'		°	'	
Chi	37	52	556	122	28	224 ✓
Cone Rock	37	51	1567	"	"	172
Pipe	"	"	1500	"	"	473

NAUTICAL CHARTS BRANCH

SURVEY NO. T. 7067 *Revision of 1948*

(Supersedes the 1947 sheet which was destroyed)

Record of Application to Charts

[illegible]

M.2168-1

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

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topography

~~SUPERSEDED~~ BY 1948 REVISION

Field No. BO-D-47

Office No. 7067(1947)

*Sheet has been destroyed
see T-7067 (rev. 1948)*

LOCALITY

State California

General locality San Francisco Bay

Locality Raccoon Strait, Belvedere Cove,

Richardson Bay

1947

CHIEF OF PARTY

W. M. Gibson

LIBRARY & ARCHIVES

DATE DEC 14 1949

DEC 14 1949

Form 537a

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

Each Topographic and Graphic Control Sheet, and each Air Photographic Drawing should be accompanied by this form, completed so far as practicable, when forwarded to the Washington office.

Registry No. 7067(1947)

Field No. BO- D -47

Scale 1:10000

*Sheet has been
destroyed*

State California General locality San Francisco Bay

Specific locality Raccoon Strait, Belvedere Cove, Richardson Bay

Dates: Survey began August 12, 1947 Completed August 19, 1947

Photography _____, Supplemented by ground surveys to _____

Project No. CS 256 Instructions dated 16 Nov. 1940 ; 24 April 1947

Vessel } or Bowie Chief of party W.M. Gibson
~~Party~~ }

Field work by C.J. Beyma Office work by C.J. Beyma

Final inking by _____

Ground elevations } in feet above { M. H. W.
Treetop elevations } or { _____

Contours } by { Planetable } Interval _____ ft.
Approximate contours } { Multiplex }
Form lines } { _____ }

REMARKS _____

Descriptive Report
To Accompany
Topographic Sheet BO -D- 47.

Topography executed under project Number CS 256. Instructions dated 16 Nov. 1940 and Supplemental Instructions dated 24 April 1947.

Topographic Sheet BO-D-47 was executed for the purpose of establishing control for hydrographic survey of Raccoon Strait and adjacent areas covered by hydrographic Sheets BO-1247 and BO-1447. This sheet extends from California City on the north including all of Raccoon Strait, Belvedere Cove, the entrance to Richardson Bay to Yellow Bluff on the south. In order to establish control in Horseshoe Bay which lies southwest of Yellow Bluff, an insert was made of the area as shown in the lower right hand corner of the sheet.

Triangulation stations in the area as plotted on the sheet were used as basic control. The following methods were used in locating the signals: The stations established between Yellow Bluff Light and Sausalito Fog Signal were determined by selecting a point between signals Dol and Big which was in range with Point Knox Lighthouse and Angel Island Peak 2, resecting on Sausalito Fog Signal. From this established position a traverse was carried forward locating signals Big, Dol, Flag, Step, Sign, Tack and Bell. The traverse was tied into Sausalito Fog Signal. The error was negligible. Sausalito Powerhouse Gable, was occupied eccentrically to obtain additional cuts on the signals mentioned above also cuts were drawn to all signals visible from this station.

Signal Pipe in the entrance to Richardson Bay is the funnel of a grounded freighter. Its position was determined by numerous cuts. Cone Rock which lies in the near by area was located in a similar manner.

The signals on the northwest side of Raccoon Strait were determined in the following manner: near signal Lime a setup location was established by a three point fix using triangulation stations Southampton Shoals Lighthouse, Angel Island Peak 2, and Point Stuart Light. From this position signals Lime, Tower, Gray, Roof were located by rod readings. From the same setup a traverse was carried in a westerly direction locating signals Lite, Red, Slip, Cross, Stan, Tib, Road, Mast, Arm, Twin and Hex. Near signal Box a planetable position was determined by a three point fix using triangulation stations Angel Island Peak 2, Point Stuart Lighthouse and Sausalito Powerhouse Gable. From this position a traverse was carried north to signal Hex tying into it from the traverse run from signal Lime. Both locations of signal Hex checked. From the setup at signal Box a traverse was carried northwest locating signals Rock, Blu, Doc, and Chi. The traverse was checked at signal Doc by a resection cut on Sausalito Fog Signal.

At signal Saw a setup was determined by a three point fix using triangulation stations Southampton Shoals Lighthouse, Angel Island Peak 2, Point Stuart Lighthouse. From this setup signal Fire was rodded in also a rod reading was taken to signal Roof checking its location from the setup at signal Lime. Signals Saw, Set, Stall, Raft, Pit, and Tip were located by rod readings.

A setup was determined by a three point fix using triangulation stations Southampton Shoals Lighthouse, Angel Island Peak 2, and Bluff Pt. 2 on a rocky ledge about 120 meters southeast of signal Was. From here signal Tip was rodded in checking its previous location. A traverse was carried north locating signals Was, Bush, Boom, Low, Ver and Dive checking the traverse at signal Dive by a resection cut on Southampton Shoals Lighthouse.

Signals Gab, Pod, Gal, and Water on Angel Island were established by numerous cuts from other setups.

A planetable position was established about 50 meters northwest of signal Pink on Angel Island as follows: From the setup at signal Saw a cut was taken on a rod near signal Pink. This position was occupied, the table oriented on the setup at Saw and resected on Southampton Shoals Lighthouse. From here a short traverse was carried northwest locating signals Pink, Shed and New.

A setup was established at signal Row on Angel Island by occupying the setup at signal Saw taking a cut on a rod to signal Row. This position was occupied, table oriented on the setup at Saw and resected on Point Stuart Lighthouse, Sausalito Powerhouse Gable, and Sausalito Fog Signal. From here signals Row, Bill and Bar were located.

The insert in the lower right hand corner of the sheet covers Horseshoe Bay. The signals were established by occupying triangulation station Range and orienting on Alcatraz Lighthouse. The azimuth between Range and Alcatraz Lighthouse was plotted on the sheet. This azimuth was used for orientation purposes. From Range a short traverse was run rodding in all signals shown in the insert.

A list of Recoverable topographic stations is being forwarded with the sheet.

Approved:

W.M. Gibson
W.M. Gibson
Chief of Party

Submitted by,

Chester J. Beyma.
Chester J. Beyma
Lieut. C & G Survey

*This graphic control sheet (T-7067, 1947)
has been destroyed. See T-7067 (rev. 1948).*

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED }
TO BE DELETED } STRIKE OUT ONE

Ship Bowle Oakland, California
5 December 1947

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

The positions given have been checked after listing by HARRY KNAPP

W.M. Gibson

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 by individual field survey sheets. Information under each column heading should be given.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
TO BE DELETED

STRIKE OUT ONE

Ship Bowle Oakland, California 5 December 1947

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 by P. A. W.

W. M. Wilson

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 by individual field survey sheets. Information under each column heading should be given.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED

STRIKE OUT ONE

TO BE DELETED

Ship Bowie Oakland, California 5 December, 1947

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

The positions given have been checked after listing by P. A. W.

W. M. Gibson

Chief of Party.

STATE	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION						METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
				LATITUDE		LONGITUDE									
				°	'	D. M. METERS	°	'	D. P. METERS						
		Yellow Bluff Light	Yel	37	50	362.6	122	28	392.0	N.A.	1927	1948 1939	X	X	5532 5535
Gable		Sausalito Powerhouse Gable	Pow	37	50	1345.5	122	28	1086.7	N.A.	1927	1916-17	X	X	5532 5535
Tower		Brown Brick Lookout Tower	Tower *	37	52	751.1	122	26	1309	N.A.	1927	1947	X	X	5532
Standpipe		Standpipe Naval Net Depot	Net	37	53	977.8	122	26	1261.7	N.A.	1927	1947	X	X	5532
Gab		West Gable of an Abandoned Barrack	Gab *	37	51	1060	122	26	781	N.A.	1927	1947	X	X	5532 5535
Flagstaff		Flagstaff, Hospital cove, Quarantine Station	Gal *	37	51	1782	122	26	130	N.A.	1927	1947	X	X	5532 5535
Pt. Stuart		Pt. Stuart Lighthouse	Stuart	37	51	1234.1	122	26	1034.0	N.A.	1927	1928-1948	X	X	5532 5535
Pt. Knox		Pt. Knox Lighthouse (chimney)	Knox	37	51	692.0	122	26	707.6	N.A.	1927	1928-1948	X	X	5532 5535
Lime Pt.		Lime Pt. Lighthouse south Stack	South	37	49	987.9	122	28	930.5	N.A.	1927	1948	X	X	5532 5535
		Southampton Shoals Lighthouse	Ham	37	52	1695.6	122	23	1392.8	N.A.	1927	1932	X	X	5532
Alcatraz Is.		Alcatraz Lighthouse	Al	37	49	1069.0	122	25	385.4	N.A.	1927	1910	X	X	5532 5535
Tank		Alcatraz Water Tank		37	49	1215.1	122	25	534.0	N.A.	1927	1940	X	X	5532 5535
Cable		Horseshoe Bay, Fort Baker wharf house Gable		37	49	1655.4	122	28	840.5	N.A.	1927	1916	X	X	5532 5535

C.L. 147 (1948)
* See adjusted positions on T-7067 (rev. 1948)

* See adjusted positions on T-7067 (rev. 1948)

C.L. 147 (1948)

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 by individual field survey sheets. Information under each column heading should be given.