

7120

Graphic Control

- 147 (51)
501 (47)
41 (47)

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

Field No. BO-A-48 Office No. T-7120 G.C.

LOCALITY

State California

General locality San Francisco Bay

Locality San Francisco Waterfront

1948

CHIEF OF PARTY

W.M. Gibson

LIBRARY & ARCHIVES

DATE Jan. 20, 1950

B-1870-1 (1)

7120

Graphic Control

147 (51)
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41 (47)

JAN 20 1950

FORM 537a
(9-24-47)DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

REGISTER NO. T - 7120 Graphic Control

TOPOGRAPHIC TITLE SHEET

FIELD NO. BO - A - 48

Each Planetable and Graphic Control Sheet should be accompanied by this form, completed so far as practicable, when forwarded to the Washington Office.

STATE

California

GENERAL LOCALITY

San Francisco Bay

LOCALITY

San Francisco Waterfront

SCALE

1:5000

DATE OF SURVEY

May to August, 19 48

VESSEL

BOWIE

CHIEF OF PARTY

W. M. Gibson

SURVEYED BY

L. F. Woodcock

INKED BY

L. F. Woodcock

HEIGHTS IN FEET ABOVE MHW OR _____

☐ TO GROUND☐ TO TOPS OF TREES

CONTOUR

APPROXIMATE CONTOUR

FORM LINE INTERVAL _____ FEET

PROJECT NUMBER

CS - 256

REMARKS

Descriptive Report to Accompany
Graphic Control Sheet BO-A-48

San Francisco Waterfront

February 1949

Instructions dated 16 Nov. 1940
Supp. Instructions dated 24 Apr. 1947

The purpose of this survey was to furnish control for in-shore hydrography along the San Francisco Waterfront. It was used to control the launch hydrography and also to locate hand-lead soundings taken from all the piers.

CONTROL:

The existing control for this sheet consisted of the following triangulation stations:

ST. FRANCIS YACHT CLUB FLAGPOLE, 1929
ST. FRANCIS YACHT CLUB NAVAL BEACON, 1932
SAN FRANCISCO, FINE ARTS BUILDING DOME, 1925
SAN FRANCISCO, P.G. & E. CHIMNEY, 1925
SAN FRANCISCO, P.G. & E. GAS TANK, 1925
SAN FRANCISCO, BLACK POINT STACK, 1916-17
SAN FRANCISCO, NORTH POINT GAS TANK, 1925
ALCATRAZ LIGHTHOUSE, 1910

SAN FRANCISCO, NORTH POINT GAS TANK, 1925 and SAN FRANCISCO P.G. & E. GAS TANK, 1925 were found to be of no use as control stations because of their size, and were not used. Both are large cylindrical gas tanks with no definite center mark.

During the course of the work it was found necessary to establish two additional control stations, namely PIER 41, 1948 and TURK, 1948. PIER 41, 1948 was located by observing a four-point fix with a 7" repeating theodolite, using one set of 6 D and R. The station was not permanently marked and is not recoverable. It was not considered practical to put in permanent marks due to constant repair and resurfacing of the pier. TURK, 1948 is a permanently marked station located by conventional third-order methods.

METHODS:

All the work on this sheet was done with plane-table and alidade, using conventional methods. Plane-table traverses were run between control points, or between points where a fix could be obtained using control points, locating signals enroute.

Although the primary purpose of this survey was to locate signals for control of hydrography, it was found that only a few extra rod shots were required to delineate the piers. This was done wherever it was possible to do so without extra plane-table set-ups.

Field work on this sheet was started by running a traverse westward from PIER 41, 1948 as far as signal FAN on pier 45. Here it was found impossible to traverse on around the outboard end of pier 45. So the plane-table was then set up near signal LAT and a fix was taken on ALCATRAZ LIGHTHOUSE, 1910, ST. FRANCIS YACHT CLUB NAVAL BEACON, 1932 and SAN FRANCISCO, BLACK POINT STACK, 1916-17. From here a traverse was run eastward, closing on signal FAN with an error of 3 meters. Each of the traverses ending at signal FAN was adjusted for a $1\frac{1}{2}$ meter error of closure.

On the remainder of the sheet it was possible to obtain fixes very frequently, and no closing errors were accumulated.

BENCH MARKS:

Bench Mark 166 (1912) is a tidal bench mark for the standard tide gage at the Fort Point Coast Guard Station, latitude $37^{\circ} 48.4'$, longitude $122^{\circ} 27.9'$.

Signal LAG is a lone flagpole in a park supported by a concrete base about 3 ft square. A small cross inscribed in a circle has been chiseled in the concrete base. It may also be a bench mark.

LANDMARKS:

Landmarks as charted are adequate. ✓

Lorin F. Woodcock

Lorin F. Woodcock
Lieut. USC & GS

Approved & forwarded:

Wm Gibson

W. M. Gibson,
Chief of Party

This graphic control survey has been compared with contemporary hydrographic surveys. No further review by the Hydrographic Surveys Section is necessary at the present time.

23 May 1950

J. A. Winsmore

Descriptions of recoverable topographic stations (Form 524) are on file in the Div. of Photogrammetry.

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 BOWIE, Oakland, CaliforniaFebruary, 19 49

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. Weber

STATE			W. M. Gibson										Chief of Party.	
California														
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						
Dome	Fine Arts Building Dome	FINE	37	48	331.1	122 26	1231.4	N. A.	1927	Tri.	1925	x		5532 ✓
Flg Stf	Lone flagpole in park	LAG	37	48	690 ²	122 26	537	"	"	Topo	1948	x		5532 ✓
Stack	P.G. & E. Chimney	TRIC	37	48	516.2	122 25	1333.0	"	"	Tri.	1925	x		5532 ✓
Gas Tank	P.G. & E. Gas Tank	BLACK	37	48	427.3	122 25	1284.6	"	"	Tri.	1925	x		5532 ✓
Siren	Pacific Coast Light List # 289	✓	37	48	1024	122 25	1097	"	"	Topo	1948	x		5532 ✓
Horn	Pacific Coast Light List # 289.5	✓	37	48	972	122 25	900	"	"	Topo	1948	x		5532 ✓
Stack	Black Point Stack	BLACK	37	48	868.8	122 25	821.4	"	"	Tri.	1916-17	x		5532 ✓
Gas Tank	North Point Gas Tank	✓	37	48	916.8	122 24	1034.6	"	"	Tri.	1925	x		5532 ✓
Lt. ✓	Pacific Coast Light List # 290	✓	37	48	1276	122 25	232	"	"	Topo	1948	x		5532 ✓
Lt. ✓	Pacific Coast Light List # 291	✓	37	48	1257	122 25	247	"	"	Topo	1948	x		5532 ✓
Lt. ✓	Pacific Coast L.L. NOS. 292 & 293	✓	37	48	1255	122 24	1066	"	"	Topo	1948	x		5532 ✓

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.

NAUTICAL CHARTS BRANCH

SURVEY NO. T-7120

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.