# 5926

Diagid. on Diag. Ch. No. 5530-4

Form 50-

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

# DESCRIPTIVE REPORT

Type of Survey Planimetric

Field No. CS-262-C Office No. T-5926

LOCALITY

State California

General locality San Francisco Bay

Locality Sausalito - Angel Island

194 1-1944

CHIEF OF PARTY

J.C.Bose

LIBRARY & ARCHIVES

Jane, 1949

DATE

8-1870-1 (1



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        *The exact time of each photograph is/available in compilation
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office.

# T- 5926

# Project - CS- 262C.

The projection of this sheet was received in the office August 25, 1944. The Control was carefully plotted and checked on the sheet by members of the Control section, using the beam compass and meter bar method.

A circle with a 14 inch radius was drawn upon each photograph in order to facilitate the use of central portions of the photographs in perference to the outer extremities.

Secondary control for this plot was picked, as nearly as possible, in a regular scheme of quadrilaterals 5 inches on a side in order to dethrmine, if possible, what effect such figures might have upon the graphic control scheme as represented by the radial line phot. Excellent results were obtained at all intersections, and it is believed that this method of selecting secondary controls at least in part responsible.

Considerable care was exercised in plotting and checking of control on the photographs by members of the control section, and except in cases of poorly defined detail, all primary control was plotted on each photograph regardless of its position relating to the 14 inch circle.

All azimuths between centers were drawn on the photographs by means of the stereoscope and radial liner method.

Since all photographs were printed on unmounted positype paper, it was necessary to eliminate the effect of paper distortion. This was accomplished by means of a distortion templet constructed from non shrinking vinylite material. The advantage of this method over the metal distortion templet is derived from the fact that it is no longer necessary to transfer distortion correction lines from the metal templet to the acetate templet, thus combining that formerly constituted two steps into a single step.

The regular discussion for the main radial plot follows:

#### (A) CONTROL DENSITY

Control was found to be well distributed throughout this sheet. Control which appeared within the limits of the sheet would perhaps have been adequate for completing a strong plot, but several stations which were near to the sheet were used as additional control to further assure the required accuracy.

# The following primary control was used:

- Angel Island Peak 2, 1881.
- √2. Pt. Blubt Rock, 1919. "
- Pt. Knox Lighthouse, 1928. -
- ٠ 4. Pt. Stuart Lighthouse, 1928. -
- Horseshoe Bay, Ft. Baker Wharf House Gable, 1916.
- ٧6. Yellow Bluff Light, 1939. -
- Sausalito Powerhouse Gable, 1916 .-
- Richardson East, 1895 (F.I.P.). Strawgerry Hill 2, 1895 (F.I.P.).
- 10. Bonito Pt. Lighthouse, 1909. -Pt. Diablo Lt. 1928

# Outside sheet limits,

- Bluff Point 2, 1897.
- 2. Coyote Ridge 2, 1916. -
- · 3• 4• Elk, 1916.
  - Alcatraz W.T., 1940.
  - St. Francis Yacht Club, Naval Beacon, 1932.

Identification of all points listed was excellent.

#### (B) **PHOTOGRAPHS**

The following nine (9) lens photographs were used:

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5489 5490 5491 6398	6397 6399 6400 6405	6406 6407 6408 <b>*530</b> 8

\* This photograph was added after the main plot had been completed and detailing had begun.

Photograph coverage was adequate for a strong plot, but, west of longitude 122° 32' there were some areas in which only two point cuts were obtained. These two point cuts, however, were clearly defined points, therefore it is not believed that accuracy is affected in this area.

#### (6) CLOSURES AND ADJUSTMENT

Regular procedure was followed in laying templets with strongest fixes first then progressively laying through photographs with weaker fixes. All azimuths to adjacent centers held and excellent intersections were obtained throughout. Some tilt was observed by carefully noting displacement of shoreline points. Particular attention was given to intersections formed by use of these tilted photographs, and it was found that, even in areas where elevation differences approximated 10% of flying height, tilt did not donstitute a factor sufficient to warrant notice. In the process of drawing azimuth lines on the photographs prior to the radial plot, special hote was made of the effect of tilt upon adjacent photographs where azimuths crossed extreme changes of elevation. There was no noticeable effect.

#### (D) AREAS OF QUESTIONABLE ACCURACY

It is believed that all parts of this sheet fall well within the prescribed limits of accuracy.

#### (E) GENERAL

Secondary control was shown on the projection with double blue circles of 2.8 millimeter and 1.5 mm. radii. Centers were shown with double blue circles of 4.0 mm and 2.8 mm radii. Approximately 40% of the additional control, or detailing points were cut in by the control section and shown by 2.0 mm blue circles. Draftsmen were instructed to show any additional detailing points in purple ink.

Respectfully submitted,

Bennie H. Lyon,

Chief Engineering Draftsman,

Forwarded by:

J. C. Bose, Chief of Party.

#### DESCRIPTIVE REPORT

To Accompany Sheet T-5926

### 26. & 27. CONTROL AND RADIAL PLOT

See report submitted by B. H. Lyon, Chief Aeronautical Draftsman, which has been incorporated in this report.

Attention is called to a letter from Capt. E. H. Pagenhart dated February 27, 1945 stating that all necessary notes and forms covering the triangulation and topographic stations have been forwarded to the Washington Office. Seven nonfloating aids to navigation have been shown on this compilation and listed on form 567 which were identified from the field prints only. It is assumed that their recovery cards were sent directly to the Washington Office.

# 28. DETAILING

The detailing of this sheet has been done according to the current instructions for this project. All photographs were clear and of reasonably good scale.

On Point Bonita, beginning at Tidal Bench Mark No.3 and extending south about 100 meters, it is believed that the field inspection was in error as to the recovery of the high-water line at this point. A thorough stereoscopic examination was made by the compiler. Reference is made to photographs 6313 and 6314, which were taken at high tide, and to Coast and Geodetic topographic surveys Nos. T-6336

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roads were delineated in their true position as nearly as could be ascertained in an area so heavily wooded. Many radial points were cut in for the convenience of the draftsman that were not circled in the usual manner on the survey sheet. This was done in order not to obscure detail. All buildings were located by radial line intersections in areas where elevation displacement, poor scale, and the like merited it.

Two towers, Nos. 45/277 and 45/278, are shown close to the Sausalito sub-station on blue print No. 21,529 of the Pacific Gas and Electric Company. These towers could not be identified on the 1:10,000 scale photographs. One tower appears on photograph No. 11442, scale 1:5,000, which was taken at a much later date. The approximate position is Lat. 37° 50' Long. 122° 28'.

#### 29. SUPPLEMENTAL DATA

The location plans for Fort Baker Breakwater and Marine Repair Shop and the location plan for the Fort Baker Dispersion Pier were used in plotting detail on the survey sheet. These plans were obtained from the U.S. Engineers Office of San Francisco. They were dated May 5, 1943.

Details for Cargo Vessel Shipyard, Sausalito, were taken from plans by Bethel-McCone Parsons Corporation.

Marin City housing project was taken from plans furnished by The Housing Authority of the county of Marin, Marin County, California. These plans were photographed to scale and transferred to the sheet by holding existing detail. Two buildings not on the plans but on photographs 11442 and 11443 have been shown. These buildings are of the same construction as other buildings in the yard. The positions of these buildings are Lat. 37° 51' 50" Long. 122° 29' 40" and Lat. 37° 52' 04" Long. 122° 29' 54".

The names of Topographic Stations (transmission towers), were taken from Pacific Gas and Electric Company plans Nos. 21,528 and 21,529. The towers were clearly identified on the office photographs, and good radial line intersections were obtained throughout in the establishment of their geographic positions. Distances between towers, in some cases, do not completely agree with those on the plans, but it is believed that the positions established on the survey sheet are true and well within the allowable limits of error. Tower No. 42/259 could not be identified on the photographs, so was not cut in.

#### 32. DETAILS OFFSHORE FROM THE HIGH-WATER LINE

Offshore rocks along southern portion of this sheet have been shown. Classifications as to submerged,

# 35 Recoverable Topographic Stations for which forms 524 have been submitted:

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Tidal Bench Mark No 1 (Sausalito)
                                         1917
                      36
                        (Pt. Bonita)
                                         1936
                     12
                                         1944
                   B-38
                                         1930
                   M-108 (CSHD)
                                         1932
                   P-108
No. 131
        Radio Tower (Pt. Bonito)
                                         1944
    163
         Finial, House
                                                Landmark
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    164
         Elevated Water Tank
    171
         ROCK
    173
         West Gable
    174
         Cupola
Transmission Towers:
                          41/254
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                          42/258
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                         43/269
                         44/270
                         44/271
                         44/272
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For 42/259, 45/277, 45/278 see page. 2.

bare, or awash were taken from field inspection and from topographic Sheet T-6336. Some rocks shown on T-6336 are not visible on the photographs and have been indicated on this photostatic copy of the survey.

# 34. LANDMARKS AND AIDS TO NAVIGATION

The landmarks and aids to navigation falling within the area covered by this sheet have been entered on from No. 2567 and made a part of this report. Originals filed in L. 347(1945) a

\* The light formerly on the end of Army Dispersion Pier has been moved to the end of the new pier and does not agree with the position shown in the 1944 Light List. The new position is Lat. 37° 50' (1131 meters) Long. 122° 28' (688 meters).

A light on a dolphin just south of the Ferry Landing at Sausalito, labelled on nautical charts Nos. 5532 and 5535 as Qk. Fl. R. could not be found listed in the 1944 Light List. Lat. 37° 51' (423 meters) Long. 122° 28' (904 meters).

The light shown between Pt. Campbell and Pt. Simpton listed on Nautical Chart -5532 as Bell F. R. and identified by field party as "175" also could not be found in the Light List.

A landmark, "Sign", at Point Cavello was not checked or deleted on sections of nautical chart No. 5532 sent in by the field party, and for this reason has not been listed on Form 567 by the compilation office.

Point Blunt Lighthouse, Angel Island, was not recovered on field prints, so has not been shown on this sheet.

#### 35. HYDROGRAPHIC CONTROL

Instructions to field party dated February 8, 1944 state that no hydrographic stations need be selected by them.

# 36, LANDING FIELDS AND AERONAUTICAL AIDS

There are two aeronautical clearance lights on the Golden Gate Bridge. One is atop the north tower, on its east side, and the other is atop the south tower, on its east side. The latter falls within the limits of Sheet No. T-5922.

# 44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

General comparisons were made with topographic surveys T-2243 (made by this bureau in 1895), Sheet T-6336

At Position agrees with that A. Sign in the 1945 Light List. The 1945 List had not been received at the time this report was written.

(made by this bureau in 1935) and U.S.G.S., San Francisco Quadrangle dated 1892-1894. The shoreline is in good agreement, save for some cultural changes, the outstanding one being the construction of Cargo Vessel Shipyard at Sausalito.

# 45. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with U.S.C.& G.S. Nautical Chart No. 5532, bearing a print date of October 7, 1944. The shoreline is in general agreement. A notable difference is the addition of the shippard mentioned above.

The strip of land connecting Tiburon with Belvedere on the southern end of the bay, Lat. 37° 52' Long. 122° 27' differs from the chart showing a fill and a small island on the north side. There is also a section of marsh north of Tiburon and east of the railroad that is shown as a pond on the chart.

Respectfully submitted,

V. F. Simmons Senior Photogrammetric Aid

Approved and forwarded:

Lieut Comdr. J. C. Bose

Chief of Party

Ry Pate
R. J. Pate

Photogrammetric Aid

# DM s and DP s

for

# Sheet T-5926

Seconds in meters (For smooth copies sent to Washington from California)

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Scaled by: J. Collins Checked by: R. J. Pate

Note: All other positions will be found on forms 524 or 567 which accompany this report.

FOR COAST PILOT Form 567 (Rev. April 1942)

DEF TOTAL OF COMMERCE U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS

LANDMARKS FOR CHARTS

May 8

Tampa Photogrammetric Office

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The positions given have been checked after listing.

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

U. S. GOVERNMENT PRINTING OFFICE 16-27869-

FOR THE OF COMMERCE S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS

NDMARKS FOR CHARTS

5926

Tempa Photogrammetric Office

April ,

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Lieut. Comdr. J. C. Bose

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etermined, shall be reported on this form. The data should be considered for the 1934 Field Memorandum, "LANDMARKS FOR CHARTS." Positions of charted sheets. Information under each column heading should be given.

U. S. COVERNMENT PRINTING OFFICE 16-27869-1

TLOT SECTION Form 567 (Rev. April 1942) FOR COAST

NT OF COMMERCE DEF T NT OF COMMERCE U. S. COASTAND GEODETIC SURVEY DEF

5926

LANDMARKS FOR CHARTS
Tarpa Photogrammetric Office
1101 E. Brosdway, Tempa, Fle.

STRIKE OUT ONE

TO BE CHARTED AND SHEAT KENDO

April

1945

I recommend that the following objects which that (have not) been inspected from seaward to determine their value as landmarks, 

Lieut. Comdr. J. C. Bose

The positions given have been checked after listing.

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4. S. GOVERNMENT PRINTING OFFICE 16-27869-

PILOT SECTION FOR COAST Form 567 (Rev. April 1942)

NT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS
Tempa Photogrammetric Office
1101 E. Broadway, Tampa, Fla.

April

Lieut.Comdr.J.C.

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The positions given have been checked after listing.

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14. S. GOVERNMENT PRINTING OFFICE 16-27869-

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

NONFLOATING A

NAVIGATION

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LANDMARKS FOR CHARTS
Tampa Photogrammetric Office

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1101 E. Broadway, Tampa, Fla.

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Form 567 (Rev. April 1942)

AT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

NONFLOATING A

FOR COAST PILOT SECTION

TO REACTION STRIKE OUT ONE TO BE DELETED

Tampa Photogrammetric Office 1101 E. Broadway, Tempa, Fla. LANDMARKS FOR CHARTS

April

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# Review Report of Planimetric Map Manuscript T-5926

# 26 Radial Plot

The radial plot was checked during the review and found to be within the limits of required accuracy. Control, in the area of the map manuscript, was adequate.

# 28 Detailing

Detail was checked on office prints and field prints. A complete discussion of detailing and use of supplemental data is in the Descriptive Report, pages 1 and 2 under subject numbers 28 and 29.

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