

5924

5924

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

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Air Photo Compilation

Field No. _____ Office No. T-5924
Shoreline

LOCALITY

State California

General locality San Francisco Bay

Locality Oakland-Alameda

1945

CHIEF OF PARTY

J. C. Bose

LIBRARY & ARCHIVES

DATE Oct 19 - 1948

Before Review
Partially applied to chit 5535, Nov 28 1945 ~~H. D. Stegman~~

DATA RECORD

T-5924

Quadrangle (II):

Project No. (II): C.S.262-C

Field Office: San Francisco

Chief of Party: E.H. Pagenhart

Compilation Office: Tampa, Fla. Chief of Party: J.C. Bose

Instructions dated (II III): 8 Feb. 1944 Copy filed in Descriptive
 Report No. T- (VI)
 Div. of Photogram. Office Files

Completed survey received in office: 9 Nov. 1945

Reported to Nautical Chart Section:

Reviewed: 15 April 1946 Applied to chart No. 5535 Date: Oct. 1947

Redrafting Completed: 30 Oct. 1947

Registered: 15 April, 1946

Published: Shoreline (Vault copy)

Compilation Scale: 1:10,000

Published Scale: 1:10000

Scale Factor (III): 1.00

Geographic Datum (III): N.A. 1927 Datum Plane (III): M.H.W.

Reference Station (III): Alameda Pike Works, highest of two

stacks, 1942
 Lat.: 37° 46' 40" 861 (1259.7) Long.: 122° 17' 04" 024 (1210.8) Adjusted
 meters meters ~~1259.7 meters~~

State Plane Coordinates (VI): 3rd Zone

X =

Y =

Military Grid Zone (VI)

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
*6386	9-3-41	12:20 P.M.	1:10,000	+4.2
*6368	9-3-41	12:20 P.M.	1:10,000	+4.2
*6369	9-3-41	12:20 P.M.	1:10,000	+4.2
*6370	9-3-41	12:20 P.M.	1:10,000	+4.2
*14033	6-2-43	2:30 P.M.	1:10,000	+4.0
*14034	6-2-43	2:30 P.M.	1:10,000	+4.0
*14035	6-2-43	2:30 P.M.	1:10,000	+4.0

440 9
53 00

Tide from (III): San Francisco, Golden Gate (Oakland Mole, Alameda Naval Air Station).

Mean Range: 4.3 ft. Spring Range: 6.0 ft., 6.2 ft.

Camera: (Kind or source) U.S.C. & G.S. 9 lens, $8\frac{1}{4}$ focal length

Field Inspection by: C.A. Kester date: 1944

Field Edit by: date:

Date of Mean High-Water Line Location (III): August, 1944

Projection and Grids ruled by (III) J.T. & B.R.C. date: 8-22-44

" " " checked by: J.T. & B.R.C. date: 8-22-44

Control plotted by: D.G. Singleton date: Jan. 1945

Control checked by: M.M. Slavney date: Jan. 1945

Radial Plot by: M.M. Slavney, B.H. Lyon date: Jan. 12, 1945

Detailed by: R. Dossett date: April, 1945

Reviewed in compilation office by: J.A. Giles date: April, 1945

Elevations on Field Edit Sheet
checked by: date:

STATISTICS (III)

Land Area (Sq. Statute Miles): 11.5

Shoreline (More than 200 meters to opposite shore): 24.2

Shoreline (Less than 200 meters to opposite shore): 0

Number of Recoverable Topographic Stations established: 23

Number of Temporary Hydrographic Stations located by radial plot: 0

Leveling (to control contours) - miles: None

Roman numerals indicate whether the item is to be entered by, (II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname and initials (not initials only).

Remarks: * The exact time of each photograph is not available in the compilation office.

MAIN RADIAL PLOT
SHEET No. T-5924
PROJECT C.S.262-C PARTIAL

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

A circle, with 14 inch radius, was drawn upon each photograph in order to facilitate use of the central portion of each photograph in preference to the outer extremities. Secondary control was picked as nearly as possible in a scheme of quadrilaterals 5 inches on a side in order to strengthen the graphic control scheme. Extreme care was exercised in plotting primary control on the photographs, and this was done without regard for the 14 inch circle.

All azimuths between centers were established by means of the stereoscope, and radial liner method.

The photographs used for this plot were printed on unmounted, acetate impregnated paper, therefore, it was necessary to treat for the effect of paper distortion. This has been accomplished by means of the distortion templet, constructed from non-shrinking vinylite material.

Discussion of main radial plot follows:

A. CONTROL

The following control stations were used to control this plot.
Alameda Grand Boat Club - concrete pillar - 1916, 1917. Oakland City Hall, 1913. Oakland Tribune Building Spire, 1925. Oakland Harbor L. H., 1919-1927. Oakland Mole, High Tank, 1942. Alameda Pipe Works, highest of two concrete stacks, 1942.

The Yerba Buena Power Co. concrete chimney, 1916, was used for control, even though it falls outside the limits of the map manuscript.

These control stations were well distributed, and since they were natural objects, the identification on them was very good; therefore, the control for the radial plot may be considered as excellent.

B. PHOTOGRAPHS

The following nine lens photographs were used in this plot:

14035, 14034, *14033, 6368, 6369, 6370, and *6386.

*Used in plot, but outside sheet limits.

The photograph coverage was sufficient for a radial plot, but the 9 lens photographs are considerably out-dated. The coverage is sufficient to locate existing detail at the time the photographs were flown.

C. CLOSURE AND ADJUSTMENT

Regular procedure was followed in laying templets, with strongest fixes first, then progressively laying thru templets with weaker fixes. Tilt was not sufficient to warrant computation.

All azimuths to adjacent centers were held and excellent intersections were obtained throughout.

D. AREAS OF QUESTIONABLE ACCURACY

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

E. GENERAL

Secondary control was picked on the sheet, and shown by double blue inked circles of 2.8 millimeters, and 1.5 millimeters radii. Centers were shown by double blue inked circles and 4.0 m.m., and 2.8m.m. radii. The sheet was released to the draftsman for the addition of detailing points which are to be shown in blue ink with 2.0 m.m. circles.

Respectfully submitted,

Bennie H. Lyon

Bennie H. Lyon
Asst. Photo. Engineer

Forwarded by

J. C. Bose

J. C. Bose
Chief of Party

DESCRIPTIVE REPORT TO
ACCOMPANY
SHEET NO. T-5924 Project C.S.262-C

26 and 27 CONTROL AND RADIAL PLOT

A special report by B. H. Lyon, Asst. Photogrammetric Engineer, covering main radial plot is enclosed herewith.

28 DETAILING

Refer to Special Report submitted by San Francisco District Office

This map manuscript has been delineated according to instructions dated February 8, 1944.

In the delineation of this map manuscript, it was necessary to use three series of photographs dated as follows: 8300 series of 9 lens photographs dated 9-3-41, 1400 series of 9 lens photographs dated 6-2-43, and single lens photographs of approximately 1:15,000 scale, received from Alameda Naval Air Station, and dated 4-25-45. The photographic coverage of the single lens, photographs was insufficient for the entire area shown on the map manuscript. They were used to show the latest detail along the inner harbor shoreline, and the Alameda Naval Air Station vicinity. The difference in scale of the single lens photographs made it necessary to use the projection machine for delineation of the latest noted detail. It is believed that most of the newest detail, such as recent construction along the inner harbor area, has been brought up to date, by the use of the single lens photographs; however, the areas outside their coverage are uncertain.

Particular attention is called to an area adjoining the seaplane entrance to Alameda Naval Air Station. On a mosaic received from the Naval Air Station, Alameda, California, dated October 13, 1944, is shown a new pier and newly filled area extending southward from the shoreline. This area has been shown by a dashed line, and labeled "very approximate". Its eastern limits were not covered on the mosaic.

New construction was being done in the vicinity of Oakland Outer Harbor at the time of the field inspection, and this has been noted on the map manuscript as shown by the field inspector.

All new buildings along the shoreline, that were shown by the photographs, have been delineated.

The photographs were clear and of reasonably good scale; however, some difficulty was experienced in selecting common points for radials due to the changes of detail in the photographs taken in 1941 and 1943.

The field inspection was adequate.

Junction with T-5925 to be made upon completion of that survey. OK

29 SUPPLEMENTAL DATA

* A mosaic map of N.A.S., Alameda, California, dated October 13, 1944, flown at 10,000 ft. with 8 $\frac{1}{4}$ " focal length camera was used for the delineation of detail not obtainable from the 9 lens or single lens photographs. Such detail that was taken from the mosaic was transferred to the map manuscript under the projection machine.

Name

Year

Small

1941

Chim.

1941

178

1941

185

1944

Black Tank

184

183

189

188

187

194

Red tank

1944

White tank

1941

East corner (Raddis)

1942

West Tower

1941

TBM 12, 1936 Oakland Inner Harbor

1941

BS3 (USGS)

1944

182

192

TBM 5, 1917

1944

BM (USGS) BS4

1944

1944

1944

1944

1944

1944

1944

1944

Name

Year

196

1944

BM Oakland 6, 1932

177

191

BM Tidal 9

180 North

180 South

181 North

181 South

186

186

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30 MEAN HIGH WATER LINE

In general, the shoreline of this area consists of high water line structures of piers, ferry landings, seawalls, and concrete or wooden bulkheads. Where the seawalls have been broken down the H.W.L. has been shown according to field inspection notes.

31 LOW WATER AND SHOAL LINES

No attempt to show M.L.W. lines or shoal lines has been made, since the



at Washington, D. C., December 1943, and revised to July 13, 1944.

In general, a comparison of this map manuscript, with the above chart, showed reasonably good agreement. There were, however, some outstanding discrepancies due to recent construction, which are noted as follows:

SE of Alameda Naval Air Station, at the sea plane entrance, a newly filled area with a new pier has been constructed.

Along the south shoreline of Oakland Inner Harbor between Lat. $37^{\circ} 47'$ and $37^{\circ} 48'$ and Long. $122^{\circ} 17'$ and $122^{\circ} 18'$. New construction of docks, marine railways, and buildings appear.

The South Pacific Rail Road spur line shown on the chart along the south shoreline of Oakland Inner Harbor, north of the Naval Air Station, has been removed.

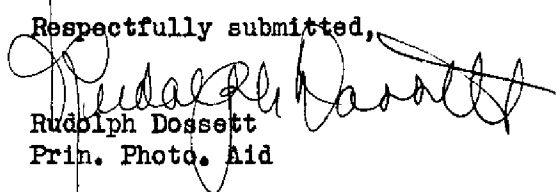
North of Alameda Naval Air Station, and in the area labeled "Navy Supply Depot", considerable building construction has occurred.

New housing projects are noted along the north and south shoreling of Oakland inner harbor.


In Oakland Outer Harbor at the Oakland Mole, new construction is noted by label. Since this construction did not appear on the photograph, further investigation by the hydrographer, or by field edit, will be necessary before delineation can be accomplished.

Possible changes along the San Francisco Bay shoreline of Alameda could not be determined, due to insufficient coverage by the most recent photographs, and further investigation by the field edit, or hydrographer, would be in order.

Respectfully submitted,


Rudolph Dossett
Prin. Photo. Aid

Approved and forwarded:


Lieut. Comdr. J. C. Bose
Chief of Party

Form 567
Rev. March 1935

Non-Floating Aids to Navigation

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

For Coast Pilot Section

TO BE CHARTED }
~~NO BE CHARTED~~ } STRIKE OUT ONE

LANDMARKS FOR CHARTS

Tampa Photogrammetric Office
1101 E. Broadway, Tampa 5, Fla. 26 Oct. 1935

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

The positions given have been checked after listing.

Lieut. Comdr. J. C. Bess Chief of Party.

GENERAL LOCALITY	NAME AND DESCRIPTION	POSITION						METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
		LATITUDE		LONGITUDE									
		D. M. METERS		° ' "		D. P. METERS							
		°	'	°	'	°	'						
San Francisco Bay	Oakland Outer Harbor Entrance West Side Range Front (#338 Pacific Coast Light List)	37	48	1752	122	19	916	N.A. 1927	Radial Plot	1944	X		5535 5532
	Oakland Outer Harbor Entrance East Side Range Front (#336 Pacific Coast Light List)	37	48	1776	122	19	618	N.A. 1927	Radial Plot	1944	X	X	5535 5532
	Oakland Harbor, South Jetty, Light (#352 Pacific Coast Light List)	37	47	1568	122	19	1209	N.A. 1927	Radial Plot	1944	X	X	5535 5532
	Bethlehem Shipyard Fog Signal (#354 Pacific Coast Light List)	37	47	670	122	16	523	"	"	1944	X	X	5535 5532
	Bell (186)	37	47	03	122	15	964	"	"	1944	X	X	5535 5532

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.

MARKS FOR CHARTS COAST PILOT SECTION

1101 E. Broadway, Tampa 5, Fla.

57E61, received 26 October 1961

have not) been inspected from seaward to determine their value as landmarks, be

Liant. Comdy. I. C. Bone

Chief of Party.

POSITION					METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
Z	LONGITUDE		DATUM							
METERS	°	'	D. P. METERS							
175	122	11	1040	N.A. 1927			X	X		5532 5535
<p>is given above plotted in the approx 1/2 mile NW of the square tank. It is believed that this one that was formerly shown 1/2 mile of there should be shown. There The leaves of the tree removed since it latest photographs. 5V6-24 Jan '46</p>										
<p>iginal landmark shown (Chart letter No. 725, 1945)</p>										

Field Memorandum, "LANDMARKS FOR CHARTS." The data should be field survey sheets. Information under each column heading should be given.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

COAST PILOT SECTION

LANDMARKS FOR CHARTS

O BE CHARTED } STRIKE OUT ONE
~~ON THE CHART~~

Tampa Photogrammetric Office

1101 E. Broadway, Tampa 5, Fla. 29 October 1945

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.

Lieut. Comdr. J. C. Rose

Chief of Party.

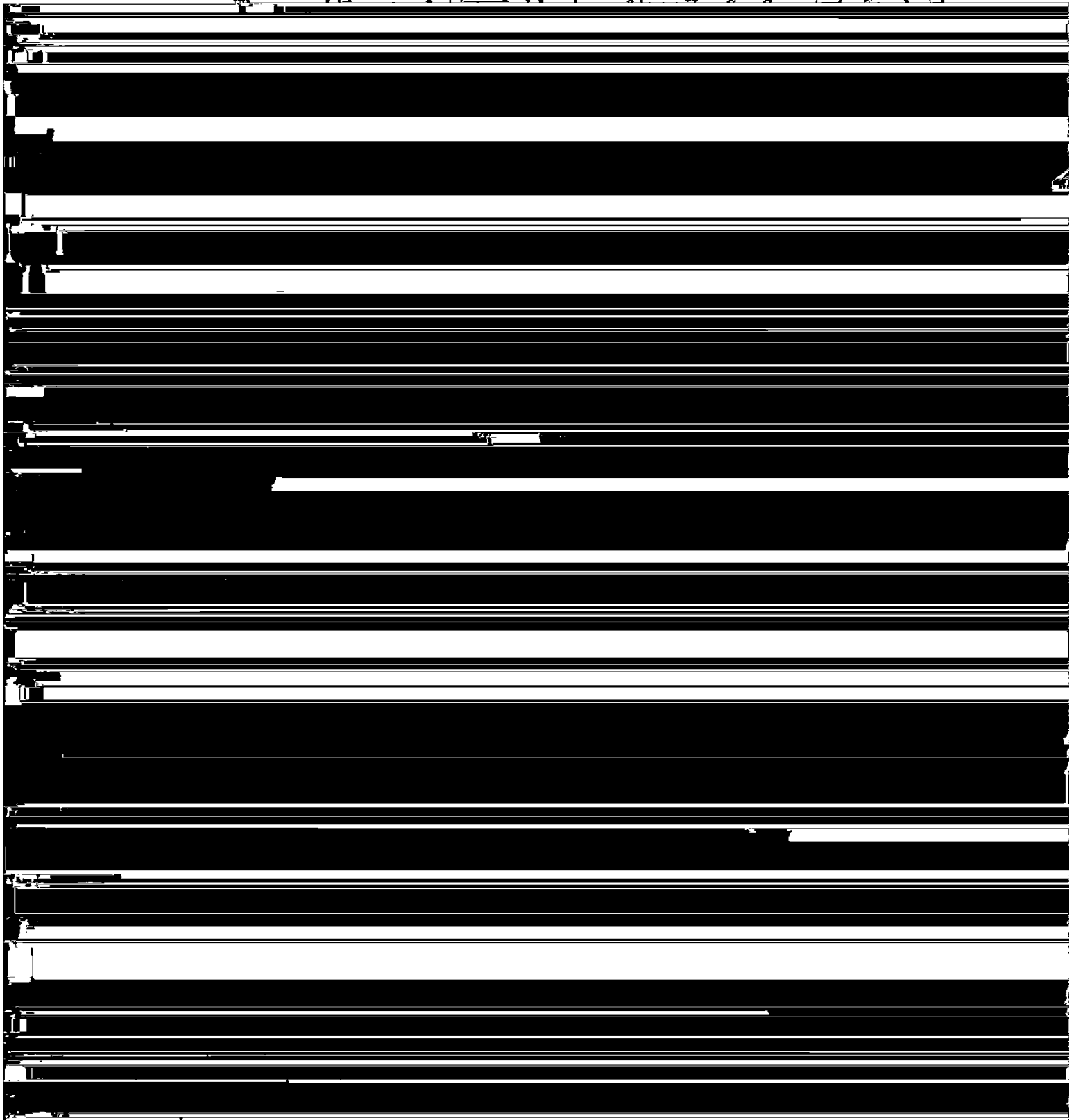
GENERAL LOCALITY	NAME AND DESCRIPTION	POSITION					METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
		LATITUDE		LONGITUDE								
		O	I	D. M. METERS	O	I						
	Bank (Oakland Mole High Tank)	37	48	1110.9	122	19	1088.3	N.A.	Triangulation	1909		5532
	Black Tank	37	47	589	122	17	619	N.A.	Radial	1945		5535
	Linney (Alameda Pipe works, Ghost of 2 cono. stacks)	37	46	1259.7	122	17	98.4	N.A.	Plot	1945		5535
	Linney (concrete)	37	46	1362	122	17	59	N.A.	Triangulation	1942		5535
	Bank (elevated, red)	37	47	133	122	17	1154	N.A.	Radial	1945		5532
	Bank (elevated)	37	47	94	122	17	1189	N.A.	Plot	1945		5535
	Bank (elevated)	37	47	47	122	17	1194	N.A.	Radial	1945		5532
	Radio Tower (East)	37	47	258	122	17	1149	N.A.	Plot	1945		5535
	Radio Tower (West)	37	47	205	122	17	1259	N.A.	Radial	1945		5532
	White Tank	37	47	1502	122	17	331	N.A.	Plot	1945		5535
	Bank (elevated)	37	47	1323	122	17	778	N.A.	Radial	1945		5532
	Bank	37	48	998	122	17	395	N.A.	Plot	1945		5535
	Tower (Oakland Shredded Steel Building Tower)	37	48		122	17			Triangulation	1925		5532

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

REVIEW REPORT FOR
Shoreline Survey T-5924 (E & W Halves)
San Francisco Bay: OAKLAND-ALAMEDA, and Vicinity

Project CS-262-C

26. CONTROL



39. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Hydrographic Survey No. 6794, scale 1/10000, dated 1941-2 was found to be in agreement with Survey T-5924.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

In general, common planimetric features are in agreement with the following topographic quadrangles. ~~No detailed comparison could be made because of large scale differences.~~

U.S.G.S.	San Francisco	15'	1/62500	ed 1915, rep. 1932
U.S.E.	" "	" "	" "	1942

45. COMPARISON WITH NAUTICAL CHARTS:

This survey has been partially applied, prior to final review, to Chart 5535, 28 Nov. 1945. The Chart has been compared with this survey with results as noted under side heading 45 of the Descriptive Report.

Reviewed by

Under the direction of

Michael G. Misulia
 Michael G. Misulia, 15 Apr. 1946
 Photogrammetrist.

S. V. Griffith
 Chief, Review Section *B*

APPROVED BY:

B. A. Jones 5/48
 Technical Assistant to the
 Chief, Div. of Photogrammetry

R. J. [unclear]
 Chief, Nautical Chart Branch
 Division of Charts

B. A. Jones 15 Oct 48
 Chief, Div. of Photogrammetry
 Acting

C. K. Green
 Chief, Div. of Coastal Surveys

GEOGRAPHIC NAMES

Survey No. T-5924

GEOGRAPHIC NAMES		Survey No. T-5924												
Name on Survey	On Chart No. On previous survey No. On U. S. quadrangle Maps From local information On local Maps P. O. Guide or Map Rand McNally Atlas U. S. Light List													
	A	B	C	D	E	F	G	H	K					
California										USG B	1			
San Francisco Bay										"	2			
Oakland										"	3			
Alameda										"	4			
Alameda Naval Air Station											5			
Oakland Inner Harbor			(5535	will be changed to agree)								6		
Alaska Basin											7			
Fortmann Basin											8			
Government Island											9			
Tidal Canal											10			
Brooklyn Basin											11			
Clinton Basin											12			
Oakland Outer Harbor											13			
Oakland Mole											14			
Naval Supply Depot											15			
Camp Knight											16			
Southern Pacific											17			
										Names underlined in red are approved. L. Heck 7/20/4)	18			
											19			
			(See nautical chart 5535 for name placement)								20			
											21			
											22			
											23			
											24			
											25			
											26			
											27			

M 234

(See nautical chart 5535 for name placement)

NAUTICAL CHARTS BRANCH

SURVEY NO 59211

Record of Application to Charts

[illegible]

M-2768-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations

T-5924

17 March 1950

Rear Admiral K.T. Adams
Acting Director
United States Coast and Geodetic Survey
Department of Commerce

Dear Admiral Adams:

Your memorandum, file No. 731-eal, dated 12 December 1949, addressed to the Director of Intelligence, United States Air Force, forwarding seventeen (17) maps for security clearance, was referred to the Assistant Chief of Staff, G-2 for action.

There is no objection to the publication of the following