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		Form 504 Ed. June, 1928 DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY R.S. Patton, Director	
		State: California	\
No.	Aero-	DESCRIPTIVE REPORT Topographic Wydregraphic Sheet No. 4672	
		LOCALITY	
()		San Francisco Bay	
		Richmond and vicinity	
		19.32.	
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		O, S. Reading	
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DESCRIPTIVE REPORT TO ACCOMPANY

AIR PHOTO TOPOGRAPHIC SHEET NO. 4672

RICHMOND AND VICINITY, CALIFORNIA.

This is a compilation of five lens aerial photographs made up of one flight, R1-11, taken with T-3 camera No. 30-1, by the U. S. Army Air Corps at 11:30 A.M. April 17, 1931, direction of flight eastward.

High tide in San Francisco Bay on April 17, 1931, occurred at 12:23 P. M. at Point Richmond.

At the eastern end of the sheet, photographs 17-22 of flight B-E were used to strengthen the plot at that end and to extend the length of the sheet. The direction of this flight was northward and was taken December 15, 1931, between 2:00 and 2:15 P. M.

LIMITS OF SHEET

This sheet extends from Point Richmond nearly to Point Isabel, embracing most of the city of Richmond and includes Brooks Island.

CONTROL

The control for this sheet consists of Coast Survey triangulation and topographic stations, Berkeley Water Front Company triangulation, the field inspection party's three point fixes and triangulation station, K R O W, and T-4438 and T-3839. This wealth of control, which was well scattered, and the accurate spotting by the field inspection party, enabled a good plot to be made in a very short time. The six photographs from flight B-E, with the addition of two three-point fixes, tied in extremely well with the main plot.

COMPILATION

A spotting plot was made to determine the scale of the photographs. A projection was laid out on a celluloid sheet using a scale factor of 92795 x 10,000 and all control points plotted. The shoreline of T-4438 and T-3839 was traced in blue ink. A radial plot was then made. Difficulty was experienced, due to elevation, around Point Richmond and with Brooks Island. Brooks Island fell in the wing photographs, which added to the difficulty. After the detail from flight R was traced, flight B-E was plotted and tied in to flight R without difficulty. Blue print No. 24818 was used in locating the breakwater, - to be taken up under "Changes."

CHANGES

The projection of this sheet is of the new 1927 datum. The intersection projection is of the datum used immediately prior to 1927.

In general the shoreline of this sheet agrees with that of T-4438 and T-3839.

Since T-4438, dredging and filling has been done in and around Ellis Slough, entirely changing the shoreline. At the upper end of the inner harbor, (north of latitude 37° 55' and east of longitude 122° 22'), dredging and filling was in progress at the time of the field inspection and since no material as to the final situation has been received to date, the shoreline in this area is shown by a dotted line, as it appeared in the photographs.

The sunken rocks off Point Potrero were transferred from T-4438. At longitude 122° 21½, beginning at latitude 37° 54½ and extending to latitude 37° 55°, the east shoreline of the fill on which the Ford Motor Company is located, is in disagreement with T-4438. At the southern end this sheet fixes the shoreline some twenty meters east of T-4438. At the northern end, the two sheets coincide. The island, running north and south, just east of this fill is also moved eastward on this sheet. Triangulation station PMI at the southeast corner of this fill, substantiates the location shown on this sheet.

The eastern shoreline of Brooks Island agrees with the old topographic sheets Nos. 399 and 2245. The shoreline on the other two sides do not agree. The bluff line on this sheet, however, agrees fairly well with the shoreline of T-399 and T-2245 on both the western and southern sides, indicating that this bluff has probably crumbled off and extended the shoreline. On the south side is a quarry which has cut into the bluff quite a bit.

The breakwater west of Brooks Island is as it appears on flight R. To the east of this island the breakwater is shown as it appears in the wing photographs of flight B-E. It was partially complete on flight R and the azimuth as given from this flight fixed its location. The dip and joining point with the mainland is from blue print No. 24818. The coordinates given on this print, coincide with the location established by the radial plot. The angle-breakwater at the eastern end was located from the radial plot of flight B.E. Since these photographs have been taken, the breakwater has been completed and is different in some respects from what is shown on this sheet. As completed, it is shown on charts 5530 and 5532.

It was not possible, by means of the photographs and data furnished by the field inspection, to extend the transmission line farther in either direction than shown. Poles extend up Burlingame Avenue and the line undoubtedly runs to the substation at the extreme eastern end of the sheet, but due to the many poles on various streets in this vicinity, it was deemed advisable not to extend the line.

In the vicinity of latitude 37° 55', longitude 122° 20', chart 5532 shows a black water tower and two windmills. (Chart 5530 shows a land mark symbol at the approximate point of the water tower.) A

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

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SHARL AND ARCHITES

AIR PHOTO TOPOGRAPHIC TITLE SHEET

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The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No.

REGISTER NO. 4672

State California	
General locality San Francisco Bay	
Locality Richmond and vicinity	
Scale 1:10,000 Date of survey Photos taken Aprilo 17 December 15, 1931.	and
Vessel Army Air Corps Aeroplane	
Chief of Party O. S. Reading	
Compiled Surveyed by F. G. Erskine	
Inked by F. G. Erskine	
Heights in feet above to ground to tops of trees	
Contour, Approximate contour, Form line interval - feet	
Instructions dated, 19	
Remarks: Compilation of five lens air-photographs Nos.	
R-1 to R-11 and B-E 17 to B-E 22, printed by Photolithograp process in Printing Section, o	hic

DIVISION OF CHARTS, FILE No._

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

7-4672

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LANDMARKS FOR CHARTS

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Report T4672 Supplemental 1. The Bayshore Highway and 55th theet, and the correction to the Breakwater tot 37°54' tong 122°19' shown in the on Sufflemental 7/20/39 for from 1 4672 were applied in Seconda 1938 for