DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: California

DESCRIPTIVE REPORT
Topographic Sheet No. 4438
Hydrographic

LOCALITY
San Francisco Bay
City of Richmond Harbor

1929

CHIEF OF PARTY
T. J. Maher
DESCRIPTIVE REPORT
To Accompany
Topographic Sheet "C". 4438

Instructions:

This survey was made under the Inspector's orders of _______________________.

Extent:

This sheet covers the Harbor of the City of Richmond, San Francisco Bay.

Purpose:

To note and locate the changes which have been made and which are in progress in the improvement of this harbor.

Method of Survey:

Two triangulation signals were established and located with a 4" theodolite. These, together with existing triangulation, controlled the survey which was done by plane table and stadia. The method of control was chiefly by 3 point positions and resection; only one short traverse being run along the road from Point Petreto to a point near the junction of Cutting Boulevard and Wine Street. This was slightly over a mile and closed with a 5 meter error which was adjusted.

Landmarks:

The several aids to navigation which were located, appear on the present chart. Several objects appearing in the water area, not of a permanent nature, were located. These consist of flags for guidances in dredging operations, and slender scantlings, called sticks on topographic sheet, apparently put down by fishermen for their own guidance.

Changes Noted:

The pier just south of the brickworks plant shown on
existing chart Lat. 37° 54' (1280 m) Long. 122° 22' (1100 m) has been removed. Rocks used in bracing this former structure now form a high water island at this point.

A pier has been added just east of the Richmond pier building. The dolphins located in prolongation of the pier are of a permanent nature and should be charted.

A dike has been thrown across the shallow water bight just south of the tank farm. The area enclosed is to be filled.

The Santa Fe ferry slips and piers just west of the Richmond pier were examined and found to be as shown on the existing chart.

Other features are as shown.

No attempt was made to locate the low water line, as this would necessitate sounding.

Statistics:

Area, Square Statute miles ——— 3.5
Miles shoreline — Statute ——— 7.5
Miles roads — Statute ——— 4.8

Geo. A. Nelson
Topographer

E. O. Steele
Chief Party

The plans and charts of the survey are made to the general requirements. No specific instructions were issued.

The junctions with the previous surveys are adequate.

No additional surveying is required.

2.

July, 1930
<table>
<thead>
<tr>
<th>Lat.</th>
<th>dm</th>
<th>Long.</th>
<th>dp</th>
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</thead>
<tbody>
<tr>
<td>Chimney of house</td>
<td>37-55</td>
<td>932</td>
<td>122-21</td>
</tr>
<tr>
<td>Derrick on Building of Richmond Navigation &amp; Implement Co.</td>
<td>37-55</td>
<td>781</td>
<td>122-21</td>
</tr>
<tr>
<td>E. Gable House</td>
<td>37-55</td>
<td>544</td>
<td>122-21</td>
</tr>
<tr>
<td>Telephone Post on Hillside</td>
<td>37-55</td>
<td>170</td>
<td>122-22</td>
</tr>
<tr>
<td>Red, White &amp; Blue Post</td>
<td>37-54</td>
<td>1618</td>
<td>122-22</td>
</tr>
<tr>
<td>Brick Works Stack (higher)</td>
<td>37-54</td>
<td>1372</td>
<td>122-22</td>
</tr>
<tr>
<td>&quot; &quot; &quot; (lower)</td>
<td>37-54</td>
<td>1403</td>
<td>122-22</td>
</tr>
<tr>
<td>W. Gable S.F. Bridge Co. Bldg.</td>
<td>37-54</td>
<td>1813</td>
<td>122-21</td>
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<tr>
<td>Outer dolphin - Richmond Pier</td>
<td>37-54</td>
<td>803</td>
<td>122-23</td>
</tr>
<tr>
<td>Innder dolphin (center) Richmond Pier</td>
<td>37-54</td>
<td>645</td>
<td>122-23</td>
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<tr>
<td>Beacon P &quot;3&quot;</td>
<td>37-54</td>
<td>729</td>
<td>122-23</td>
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<td>Beacon P &quot;7&quot;</td>
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<td>Beacon P R &quot;2&quot;</td>
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<tr>
<td>Echo Board</td>
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<td>349</td>
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U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

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

Field Letter C

REGISTER NO. 4438

State California

General locality San Francisco Bay

Locality Richmond Harbor

Scale 1/10,000 Date of survey June 1929

Vessel San Francisco Field Station

Chief of Party T. J. Maher

Surveyed by G. A. Nelson

Inked by G. A. N.

Heights in feet above ground to tops of trees

Contour Approximate contour--Form--line interval feet

Instructions dated Inspector's oral instructions of May 29

Remarks: Handmade Sheets filed with Mr. Stinson