DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

State: Washington

DESRIPTIVE REPORT.

Tape Sheet No. 4333

LOCALITY:

Puget Sound, Commencement Bay

Seattle Inner Harbor, Bocks

and Waterways

19128

CHIEF OF PARTY:

C. C. Jones, H. R. G.

MAR 16 1928

MAR 26 1928
INSTRUCTIONS AND LIMITS OF SHEET: This survey was executed in accordance with the Director's orders to the Commanding Officer, Motor Vessel "HATCHA", dated May 3, 1927. It includes a topographic survey of Tacoma Inner Harbor, covering the several docks and waterways, from the Municipal Docks on the City Waterway east to the east shore of Hylebos Creek Waterway, and from the mouths of the several waterways, south to the salt marshes surrounding the Puyallup Indian Reservation. This sheet joins the 1:10000 topographic sheet at the mouth of the City and Hylebos Creek Waterways.

CHANGES: Several changes in the buildings on the various docks along the waterways are undergoing or have undergone changes since the survey of 1919.

Old piles along the northwest face of the slip west of the Middle Waterway are not shown on this sheet but are shown on the 1:5000 Hydrographic Sheet. The old docks on the northwest face of the slip west of the Puyallup Waterway are now only pile stubs, and are shown on the 1:5000 Hydrographic Sheet. The slip on the west side of the Puyallup Waterway is undergoing radical changes relative to shape of slip and buildings thereon. A new pulp mill is now under construction on this slip. Several fields of mooring dolphins located in the various waterways are shown on the 1:5000 Hydrographic Sheet. The piles shown on chart 6451, on the west side of the Hylebos Creek Waterway a half mile southeast of the end of the slip, are now rotten away. The buildings on this slip, most notably on the outer end of the slip, are now in a state of ruin and are abandoned.

Any changes which might have occurred in the shoreline of the salt marsh surrounding the Puyallup Indian Reservation, cannot be noted, as this territory was sketched and not accurately surveyed.

LANDMARKS: All prominent landmarks, of any aid to navigation, were cut in by triangulation, and will be forwarded with this data.

CORRECTIONS TO CHARTS: On chart 6451 there are not shown two beacons which exist on the Port of Tacoma Docks or nearby. On chart 6460, these beacons are shown in their correct location, but are shown as two green beacons. The beacon on a dolphin about eighty five (85) meters off the north corner of the north slip is a red beacon and the beacon adjacent to the east face, at the
outer end of the second slip, is a green beacon.

SURVEY METHODS: The entire survey was made by ordinary plan tabindex survey methods, several three point fixes being taken throughout the progress of the survey to check the traverse. Some of the signals located on off-shore objects were located by plan tabindex triangulation, but the majority were located while traversing from one station to another.

MAGNETIC MERIDIAN: The direction of the magnetic meridian given on this sheet was determined from observations for compass variation with a compass declinometer at triangulation station THEO.

SURVEY PARTY: The topography in the field was executed by Lt. (j.g.) A. F. Jankowski, and the details of the sheet inked by the same party. The sheet, including the names of the signals, lettering and other minor details, was completed by the undersigned party.

Approved and forwarded: Respectfully submitted,

[Signature]
G. C. Jones, H & G. E.
Cmdg. Motor Vessel HATMA.

[Signature]
John M. Baker Jr., Cid.

[Signature]
E. P. E. I.
Apr. 1928
### Plane Table Positions

<table>
<thead>
<tr>
<th>Objects and Descriptions</th>
<th>Latitude</th>
<th>D. M.</th>
<th>Longitude</th>
<th>D. P.</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green light on Dolphin. West entrance to Milwaukee Waterway</td>
<td>47° 16'</td>
<td>386</td>
<td>122° 25'</td>
<td>494</td>
<td>Tpp.</td>
</tr>
<tr>
<td>Pile center of tide 47° 16' flats S.E. of Port Docks</td>
<td>250</td>
<td>(1564)</td>
<td>122° 24'</td>
<td>1114</td>
<td>Top</td>
</tr>
<tr>
<td>Pile center of tide 47° 16' flats S.E. of Port Docks</td>
<td>347</td>
<td>(1505)</td>
<td>122° 24'</td>
<td>956</td>
<td>Top</td>
</tr>
<tr>
<td>Red light on dolphin S.W. entrance to Wapato Waterway</td>
<td>1360</td>
<td>(472)</td>
<td>122° 24'</td>
<td>1186</td>
<td>Top</td>
</tr>
<tr>
<td>Telephone post with platform on top, in Hylebos Waterway</td>
<td>1370</td>
<td>(482)</td>
<td>122° 24'</td>
<td>41</td>
<td>Top.</td>
</tr>
<tr>
<td>Tall black stack of Lumber Yard</td>
<td>1191</td>
<td>(561)</td>
<td>122° 23'</td>
<td>811</td>
<td>Top.</td>
</tr>
</tbody>
</table>
LANDMARKS FOR CHARTS

Tacoma, Washington
February 21st, 1928

Superintendent, U.S. Coast and Geodetic Survey:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted:

<table>
<thead>
<tr>
<th>Description</th>
<th>Latitude, D. M.</th>
<th>Longitude, D. P.</th>
<th>Datum</th>
<th>Method of Determination</th>
<th>Charts affected</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stack, tall, black iron</td>
<td>47 16 1119.2</td>
<td>122 24 454.6</td>
<td>N.A.</td>
<td>3rd Ord. 6451 &amp; 6460</td>
<td></td>
</tr>
<tr>
<td>Tank, red, water</td>
<td>47 15 851.4</td>
<td>122 24 234.4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tank, water, black iron</td>
<td>47 15 347.8</td>
<td>122 25 288.1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stack, brk., S. Twin</td>
<td>47 15 520.1</td>
<td>122 25 356.7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>47 15 544.5</td>
<td>122 25 353.1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tank, water, black iron</td>
<td>47 15 1156.6</td>
<td>122 25 257.3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>47 15 452.7</td>
<td>122 25 915.4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>47 16 1042.0</td>
<td>122 24 876.0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>47 16 84.6</td>
<td>122 25 358.6</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

NOTE: All above water tanks are tall and prominent, making excellent marks for bearings, etc.

Dome, St. Jos. Hosp. 47 14 1298.0 122 26 1000.6  H. A. 3rd Ord. 6451 & 6460

Tower, high square, tur.-47 15 722.7 122 26 871.5

Stock, tall, whon sky-47 15 1173.6 122 27 113.6

Tower, church, ornate 47 15 1559.3 122 26 985.1

Stack, brick, S.E. Tur.

"  " W. E. " 47 15 265.2 122 26 39.0

Tank, large, bright on   47 16 1094.5 122 30 216.0

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report. The selection, determination, and description of these points are of primary importance. The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire; tank, tall stack, red chimney, radio mast, etc. Generally, flagstaffs and like objects are not sufficiently permanent to chart.
LANDMARKS FOR CHARTS

Tacoma, Washington

February 21, 1928

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</thead>
<tbody>
<tr>
<td></td>
<td>D. M. m.</td>
<td>D. P. m.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>High School, F. P.</td>
<td>47° 16' 8.6&quot;</td>
<td>122° 26' 1049.2&quot;</td>
<td>N. A. 3-rd Ord.</td>
<td>6451 &amp; 6460</td>
<td></td>
</tr>
</tbody>
</table>

Note: Flag pole is on one of central towers of High School building which is very prominent from waterfront.

S. W. Trans. Tower 47° 16' 976.4" 122° 31' 973.8" N. A. 3-rd Ord. 6451 & 6460

N. E. " 47° 16' 1024.4" 122° 31' 943.5" " " " "

NOTE: S. W. transmission tower has flashing red air beacon on top. These towers are very large and prominent in daytime.

Light, City Way 47° 16' 1349.9" 122° 26' 169.9" N. A. 3-rd Ord. 6451 & 6460

Occ. Wh. Lt. at entrance to City Waterway.

Standpipe 47° 14' 1143.7" 122° 26' 1028.2" " " " "

Stack, smelter as charted at present.

City Hall Tower, illuminated clock 47° 16' 974.0" 122.26' 426.9" " " " "

Court Ho. Tower, illum 47° 16' 394.7" 122° 26' 915.3" " " " "

NOTE: Last 3 positions taken from triangulation data furnished by office. They are apparently already reduced to N. A. Datum.

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DEPARTMENT OF COMMERCE
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 No. ..................................................

REGISTER NO. 4333

State .................................................. Washington

General locality ...................................... Commencement Bay

Locality ............................................... Tacoma Inner Harbor Docks and Waterways

Scale 1:5,000 ........................................... Date of survey Oct. - Dec., 1927

Vessel .................................................. U.S. C. & G. S. L. Y. NATOMA

Chief of Party ....................................... G. C. Jonas

Surveyed by .......................................... A. F. Jankowski

Inked by ............................................. A. F. Jankowski J. L. Baker, Jr.

Heights in feet above ground to tops of trees

Contour, Approximate contour, Form line interval feet

Instructions dated .................................... May 3, 1927

Remarks: ..................................................

.......................................................... G.F.O