DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. Patton, Director

State: New Jersey

DESCRIPTIVE REPORT
4747

Locality
Sharpe River,
Avon by the Sea,

1933

Chief of Party
Philip C. Dowan
Applied to drawing of Chart No. 1215
11/13/34 - HEM.
DESCRIPTIVE REPORT
TO ACCOMPANY TOPOGRAPHIC SHEET "A"
SHARK RIVER, NEW JERSEY

AUTHORITY
Work was done under Director's order and instructions
dated Feb. 10, 1933.

LIMITS
This sheet covers the shore line of Shark River, Shark
River Inlet and the Atlantic Seaboard for a distance of one half mile
north and south of the inlet. On the outer coast the shore line extends
from 40° -10.7' to 40° -11.9'. In an east and west direction the area
covered is from 74° - 1.5 to 74° - 3.0'.
No attempt was made to locate houses or streets as
serial photographs have been taken of this area. Definite objects were
located to furnish control for the photographs and for hydrography.

GENERAL DESCRIPTION
Shark River is made up of a channel, bulkheaded on
both sides, extending one half mile westward from the Atlantic Ocean
and a wide shallow bay, Y shaped, extending to the north and west from
the westerly end of the channel.
On either side of the inlet large stone and concrete
jetties extend about 150 meters into the Atlantic Ocean.
A concrete bridge with a 50 foot clear draw-span
is located at the mouth of the river.
The old highway and trolley car bridges which
connected the main streets of Avon and Belmar are being removed and a
new concrete bridge, with a draw-span, is being built on the sites of
the old bridges.
A wooden truss bridge carries the railroad tracks
over the river just east of the two concrete highway bridges on the
main Neptune Highway road. The southerly of these bridges has a first
span but has no motor at this time.
The flat sand area just to the west of the innermost
concrete highway bridges is used, mostly in summer, for an airplane
landing field.
A realty development company, Shark River Hills Co., Inc.,
has bulkheaded and filled in the area on the west side of the easterly
arm of the bay.

LANDMARKS
Various water tanks were located by triangulation and
can be put on the charts for use from seaward. The positions have been
computed and adjusted in the office and are on file there, together with
complete descriptions.

CHARACTER OF CONTROL USED
A small scheme of triangulation was observed to give
control and cover this area. A quadrilateral of 2nd order accuracy was
observed using the 1st order line Observatory 2-Electric as a base.
Numerous stations of 3rd order accuracy were then established along the river to furnish direct control for topography and hydrography. Traverse lines were run between these closely spaced stations. Cuts from three or more triangulation stations were taken to prominent water tanks and the positions computed. All triangulation is on the North American 1927 datum.

CLOSING ERRORS OF TRAVERSES

The topography was done on the new, paper covered aluminum topographic sheet. Despite large changes in temperature and varying weather conditions, the projection, which was made on this sheet in the Washington office before the field work started, showed no distortion. This is the great advantage of this sheet over the old Whatman sheet. All traverses run between triangulation station closed well within the limits as prescribed in the topographic manual and were adjusted as described therein. Standard practice was used throughout the sheet.

MAGNETIC OBSERVATIONS

No magnetic observations were made as ample data is on hand for this area.

STATISTICS

Statute miles of shore line ...................... 11.7
Area surveyed in square statute miles .......... .9

Respectfully submitted,

[Signature]
Philip C. Doran
H and G. Eng.
DESCRIPTION OF NATURAL OBJECTS LOCATED BY

TOPOGRAPHY AND MAY BE RECOVERABLE FOR FUTURE WORK.

<table>
<thead>
<tr>
<th>MAC</th>
<th>Southerly of four large radio towers.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAD</td>
<td>Second tower from the south end.</td>
</tr>
<tr>
<td>NED</td>
<td>Green roofed summer pavilion.</td>
</tr>
<tr>
<td>PAR</td>
<td>Small summer pavilion.</td>
</tr>
<tr>
<td>CGH</td>
<td>N.W. corner of concrete bulkhead with high wire fence on top.</td>
</tr>
<tr>
<td>LET</td>
<td>Small flagpole.</td>
</tr>
<tr>
<td>WHY</td>
<td>Large white door in side of bank.</td>
</tr>
<tr>
<td>HAT</td>
<td>Coast Guard house inside inlet.</td>
</tr>
<tr>
<td>GAT</td>
<td>Watch tower at drawbridge at Ocean Ave.</td>
</tr>
<tr>
<td>UP</td>
<td>Small summer pavilion.</td>
</tr>
<tr>
<td>STA</td>
<td>Similar to UP.</td>
</tr>
<tr>
<td>DUB</td>
<td>Cupola with double windows on large house.</td>
</tr>
<tr>
<td>NDN</td>
<td>End of pier.</td>
</tr>
<tr>
<td>HOT</td>
<td>Main entrance to hotel.</td>
</tr>
<tr>
<td>EGG</td>
<td>S.E. corner of house on beach.</td>
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<tr>
<td>NEW</td>
<td>Very large flagpole - outlet for septic tank.</td>
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This list is made part of the topographic and hydrographic descriptive reports to accompany sheets covering the Shark River, New Jersey, area.
<table>
<thead>
<tr>
<th>STATION</th>
<th>DESCRIPTION</th>
<th>POSITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>UP</td>
<td>Small summer pavilion</td>
<td>40°11'56.4&quot; 74°00'28.2&quot; 1740.8 meters</td>
</tr>
<tr>
<td>STA</td>
<td>Similar to UP</td>
<td>40°11'49.4&quot; 74°00'31.3&quot; 1522.3 meters</td>
</tr>
<tr>
<td>DUB</td>
<td>Cupola with double windows on large house</td>
<td>40°11'29.1&quot; 74°00'38.4&quot; 898.9 meters</td>
</tr>
<tr>
<td>MON</td>
<td>End of pier</td>
<td>40°11'06.9&quot; 74°00'31.1&quot; 212.4 meters</td>
</tr>
<tr>
<td>HOT</td>
<td>Main entrance to hotel</td>
<td>40°11'03.4&quot; 74°00'42.1&quot; 75.3 meters</td>
</tr>
<tr>
<td>EGG</td>
<td>S. E. corner of house on beach</td>
<td>40°10'51.6&quot; 74°00'44.2&quot; 1591.0 meters</td>
</tr>
<tr>
<td>NEW</td>
<td>Very large flagpole - outlet for septic tank</td>
<td>40°10'43.2&quot; 74°00'48.9&quot; 1331.3 meters</td>
</tr>
</tbody>
</table>
LANDMARKS FOR CHARTS

Washington, D. C.

August 31, 1933.

Philip C. Doran.
Chief of Party.

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>
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<th>METHOD OF DETERMINATION</th>
<th>CHARTS AFFECTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allenhurst Tank. Tall silver tank.</td>
<td>40 14 192.0 74 00 723.5</td>
<td>N.A.1927</td>
<td>1215</td>
</tr>
<tr>
<td>Monterey Hotel. Cupola of hotel.</td>
<td>40 13 1068.3 73 59 1374.2</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>Avon Tank. Large black water tank.</td>
<td>40 11 1146.3 74 01 504.2</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>Spring Lake Heights tank. Tall water tank.</td>
<td>40 08 1401.2 74 02 324.1</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>Squat tank. A squat tank with 100 m of Spring Lake tank.</td>
<td>40 08 1413.1 74 02 269.5</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
</tbody>
</table>

As all of the above have been located by triangulation complete descriptions are on hand in the office files.

A list of objects carefully selected because of their value as landmarks as determined from seaward together with individual descriptions, 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 an important factor in the value of the chart. Landmarks selected at appropriate intervals can be clearly charted. However, when none is outstanding, a group of two or three objects may by their interrelationship provide positive identification. A group so selected should be indicated.

The description of each object should be short, but such as will clearly identify it: for example, a standpipe, elevated tank, gas tank, church spire, tall stack, red chimney, radio mast, etc. Assign numerals to landmarks to indicate: (1) offshore, (2) inshore, (3) harbor, 1, 2, 3 would be a mark useful on all charts. Generally, flagstaffs and like objects are not sufficiently permanent to chart.
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Washington D.C. Aug. 31, 1933

DIRECTOR, U. S. COAST AND GEODETIC SURVEY:

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<td>40 08 141.2 74 02 324 269 6</td>
<td>△</td>
<td></td>
</tr>
<tr>
<td>Squat tank, a squat tank within 100 m of Spring Lake. 40 08 1413 1 74 02 269 6</td>
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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. A

REGISTER NO. 4747

State New Jersey

General locality Atlantic Coast

Locality Shark River and Vicinity

Scale 1:10,000 Date of survey Feb-Mar., 1933

Vessel Shore Party

Chief of party Philip C. Doran

Surveyed by Philip C. Doran

Inked by Philip C. Doran

Heights in feet above to ground to tops of trees

Contour, Approximate contour, Form line interval feet

Instructions dated Feb. 10, 1933

Remarks: 

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