<table>
<thead>
<tr>
<th>Topo.</th>
<th>Sheet No.</th>
<th>4136</th>
</tr>
</thead>
</table>

**LOCALITY:**
- Santa Catalina Is.
- Avalon Bay
- Baker's Cove
- Vicinity

1925

**CHIEF OF PARTY:**

T. J. Maher
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 4136

State . California

General locality . Santa Catalina Island

Locality Avalon Bay and Vicinity

Chief of party . T. J. Maher

Surveyed by . H. B. Brown

Date of survey . May, 1925

Scale . 1:5000

Heights in feet above High Water

Contour interval .20 . feet

Inked by H. B. Brown . Lettered by H. B. Brown

Records accompanying sheet (check those forwarded): Photographs,
Descriptive report, Horizontal angle books, Field computations,
Data from other sources affecting sheet

Remarks: Instructions dated Jan. 3, 1925

Countours inked in black; this work was practically completed before the officer inking it could be stopped.
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: California

Descriptive Report
Sheet No. 4136A

Locality
Santa Catalina Island
Avalon Bay
Palin Cove and Vicinity

Chief of Party
F. G. Engle
DESCRIPTIVE REPORT
TO ACCOMPANY
TOPOGRAPHIC SHEET NO. 4136A - SCALE: 1:500

DAKIN COVE, SANTA CATALINA ISLAND, CALIFORNIA.

EXENT: This sheet includes the shore-line on the east coast of Santa Catalina Island from about 1 mile south of Avalon to about 3/4 mile north and the contours for about 1/2 mile inland.

GENERAL DESCRIPTION: The shore-line is mostly rocky with occasional short stretches of sand beach. Back of the shore-line the ground rises rapidly and the hills are covered with grass and small trees.

Abalone Pt., is a rocky point 37 feet high on the south side of Dakin Cove. Sugar Loaf Rock is a high rock 72 feet high marking the north side of Dakin Cove. It is the only conspicuous landmark on the sheet.

Dakin Cove is a small lighthouse 1/2 mile wide which indent's the coast about 1/4 mile. The town of Avalon is located here. Steamers of the Wilmington Transportation Co., operate daily between here and Wilmington, Calif. The harbor is frequented by many small fishing boats and pleasure launches.

The Lighthouse in Dakin Cove is owned and operated by the local Yacht Club.

SURVEY METHODS: In checking the work on original sheet No. 4136 the contours were found to be in error. A new projection was made and a complete survey made. The recoverable topographic stations were either checked or relocated. The following topographic stations were found to be in error: Dlin, Bud, Lighthouse, St. Catherine's Hotel P.S., and White Rock.

Four new signals were located for hydrography namely: White, Dot, Low and Blast.

The triangulation stations, Cactus, Ordq, New, Cong. Church, Stack, Short Mast and Low Pole were recovered and were used to control the work.

A traverse was run from a three point fix on the Wilmington Transportation Co., docks along the shore line to the northern limit of the sheet. This traverse was later rerun, closing with an error of 2 meters. This traverse was also checked by a traverse run from Low Pole down the road to Hamilton Beach, closing with an error of 6 meters which was adjusted.
A traverse run from a 3 point fix on the Wilmington Transportation Co., dock along the shore to signal Light checked the former position of Light to 3-1/2 meters. This traverse was checked by a traverse run from Ord2 down the road to Light closing with an error of 5 meters. The adjustment of the two traverses gives the present location of Light.

The shoreline on original sheet 4136 was found to be in error near Hamilton Beach and south of Abalone Pt. The high road south of Avalon was also found to be in error.

The roads north and west of Avalon were located by a closed traverse running from "New" around the ridge known as "Sugar Loaf Spur" closing with an error of 3 meters.

At the beginning of the work the elevation of the four triangulation stations, Cactus, Ord2, New and Low Pole were determined by vertical angles from a 3 point fix on the Wilmington Transportation Co., dock. These elevations served to control later determinations of the height of instrument when 3 point fix was used to locate contours.

Elevations were obtained by vertical angles and rod readings. The position of the instrument was obtained either by 3 point fix or by traverse, the ends of traverse lines being closed by 3 point fix.

Respectfully submitted,

Joe C. Partington,
Jr. H. & G. Engineer,
Topographer.

Approved and forwarded:

F. G. Engle,
H. & G. Engineer,
Chief of Party.
<table>
<thead>
<tr>
<th>Object and description</th>
<th>Latitude D.M.</th>
<th>Longitude D.P.</th>
<th>Height ft</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pinnacle</td>
<td>33° 20'</td>
<td>115° 0'</td>
<td>155'</td>
<td>Small rock on Abalone Pt.</td>
</tr>
<tr>
<td>Blast</td>
<td>33° 19'</td>
<td>116° 0'</td>
<td>782'</td>
<td>Tall steel mast on high bluff</td>
</tr>
<tr>
<td>Light</td>
<td>33° 20'</td>
<td>116° 0'</td>
<td>829'</td>
<td>Gaible of rock chute, Graham Bros. Co.</td>
</tr>
<tr>
<td>Din</td>
<td>33° 20'</td>
<td>116° 0'</td>
<td>1336'</td>
<td>Large rock, south of Abalone Point.</td>
</tr>
<tr>
<td>Low</td>
<td>33° 20'</td>
<td>116° 0'</td>
<td>1355'</td>
<td>Low sharp rock, south of Abalone Pnt.</td>
</tr>
<tr>
<td>Bud</td>
<td>33° 20'</td>
<td>116° 0'</td>
<td>1460'</td>
<td>Square flat rock, south of Abalone Pnt.</td>
</tr>
<tr>
<td>Hoe</td>
<td>33° 20'</td>
<td>116° 19'</td>
<td>22'</td>
<td>Highest pt. on Abalone Point.</td>
</tr>
<tr>
<td>Bat</td>
<td>33° 20'</td>
<td>116° 19'</td>
<td>515'</td>
<td>Flagpole on s.e. corner bath house.</td>
</tr>
<tr>
<td>Flagstaff</td>
<td>33° 20'</td>
<td>116° 19'</td>
<td>397'</td>
<td>Flagstaff, in front Mr. Wrigley's house.</td>
</tr>
<tr>
<td>Red Deme</td>
<td>33° 20'</td>
<td>116° 19'</td>
<td>548'</td>
<td>Flagpole on red conical roof.</td>
</tr>
<tr>
<td>Red Dome on Dance Pavil-</td>
<td>33° 20'</td>
<td>116° 19'</td>
<td>730'</td>
<td>Flagpole on the conical roof Dance Pav.</td>
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<tr>
<td>Mast</td>
<td>33° 20'</td>
<td>116° 19'</td>
<td>890'</td>
<td>Flagpole s.e. corner Tuna Club Pier.</td>
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<tr>
<td>Lighthouse</td>
<td>33° 20'</td>
<td>116° 19'</td>
<td>941'</td>
<td>Lighthouse on Yacht Club</td>
</tr>
<tr>
<td>Sugar Loaf Rock</td>
<td>33° 20'</td>
<td>116° 19'</td>
<td>742'</td>
<td>Diaphragm on Sugar Loaf Rock</td>
</tr>
<tr>
<td>White Rock</td>
<td>33° 21'</td>
<td>116° 19'</td>
<td>1031'</td>
<td>Small rock close to shore, 130 m. north St. Catherines Hotel.</td>
</tr>
<tr>
<td>Object</td>
<td>X</td>
<td>Y</td>
<td>Z</td>
<td>W</td>
</tr>
<tr>
<td>----------------</td>
<td>---</td>
<td>---</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td>St. Catherine Hotel Flagstaff</td>
<td>33</td>
<td>21</td>
<td>95</td>
<td>118</td>
</tr>
<tr>
<td>Catholic Church Steeple</td>
<td>33</td>
<td>20</td>
<td>1369</td>
<td>118</td>
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<tr>
<td>House</td>
<td>33</td>
<td>20</td>
<td>1731</td>
<td>116</td>
</tr>
</tbody>
</table>

*Higher one of two crosses*

*South gable of small frame house.*

*Objects are prominent enough to be of use to navigator.*

F.G.
<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
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<tbody>
<tr>
<td>Square miles covered</td>
<td>1.0</td>
</tr>
<tr>
<td>Statute miles of roads</td>
<td>12.4</td>
</tr>
<tr>
<td>Statute miles of shore line</td>
<td>2.5</td>
</tr>
</tbody>
</table>
Department of Commerce
U. S. Coast and Geodetic Survey

Washington July 30, 1928.

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 4136a

AVALON BAY

Bakin Cove, California

Surveyed in 1928

Instructions dated December 16, 1927

Chief of Party, F. G. Engle.

Surveyed and inked by J. C. Partington.

1. The records as well as the plan and character of the survey conform to the requirements of the General Instructions.

2. The plan and extent of the survey satisfy the specific instructions.

3. The junction with T. 1606 is adequate.

4. Signal Point on T. 4136 was used on the original work of H. 4482, and as the shoreline on the new survey differs in that locality considerably from T. 4136, the signal is probably erroneously located and should have been included in T. 4136a.

5. This survey is intended to replace T. 4136 which was found to be defective. The latter sheet should be destroyed after H. 4482 is completed.

6. No additional surveying is required.

7. The character of the surveying and field drafting are excellent.


Approved:

[Signature]

Chief, Section of Field Records (Charts)

[Signature]

Chief, Section of Field Work (H. & T.)
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. 4136a

State. California

General locality. Catalina Island

Locality. Avalon Dakin Cove & Vic.

Scale 1/5,000 Date of survey Mar. 26 -- Apr. 6, 1928

Vessel. DISCOVERER

Chief of Party. F. G. Engle

Surveyed by. J. G. Partington

Inked by. J. G. P. - C. J. W.

Heights in feet above MHW to ground

Contour. Approximate elevation, Davenport Station = 60 feet

Instructions dated. December 16, 1927

Remarks. A Resurvey