DESCRIPTIVE REPORT

THIS MAP EDITION WILL NOT BE FIELD EDITED

--------|-----------
TP-01297 | 1

Job No. | CM-8317

Map Classification
CLASS III FINAL

Type of Survey
SHORELINE

LOCALITY

State
HAWAII

General Locality
BARBERS POINT TO MAKAPUU POINT

Locality
EWA BEACH

1986 TO 19

REGISTERED IN ARCHIVES

DATE
**DESCRIPTIVE REPORT - DATA RECORD**

**PHOTOGRAMMETRIC OFFICE**
Coastal Mapping Unit
Atlantic Marine Center, Norfolk, VA

**OFFICER-IN-CHARGE**
C. Dale North, Jr.

**TYPE OF SURVEY**

- [ ] ORIGINAL
- [ ] RESURVEY
- [ ] REVISED

**MAP EDITION NO.**
(1)

**MAP CLASS**
III Final

**JOB**
MK-CH-8317

**LAST PRECEDING MAP EDITION**

<table>
<thead>
<tr>
<th>TYPE OF SURVEY</th>
<th>JOB</th>
<th>PH-</th>
</tr>
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<tbody>
<tr>
<td>[ ] ORIGINAL</td>
<td></td>
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<tr>
<td>[ ] RESURVEY</td>
<td></td>
<td></td>
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<tr>
<td>[ ] REVISED</td>
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</table>

**SURVEY DATES:**
19__ TO 19__

---

**I. INSTRUCTIONS DATED**

<table>
<thead>
<tr>
<th>1. OFFICE</th>
<th>2. FIELD</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Aerotriangulation</strong></td>
<td><strong>Control</strong></td>
</tr>
<tr>
<td><strong>Compilation</strong></td>
<td><strong>May 17, 1987</strong></td>
</tr>
<tr>
<td><strong>April 3, 1987</strong></td>
<td><strong>October 2, 1987</strong></td>
</tr>
</tbody>
</table>

---

**II. DATUMS**

1. **HORIZONTAL:**
   - [ ] 1927 North American
   - [ ] Mean High-Water
   - Mean Low-Water
   - Mean Lower Low-Water
   - Mean Sea Level

2. **VERTICAL:**
   - [ ] Other (Specify)
   - Hawaii Datum

3. **MAP PROJECTION:**
   - Transverse Mercator Projection

4. **GRID(S):**
   - State: Hawaii
   - Zone: 3

5. **SCALE:**
   - 1:10,000

---

**III. HISTORY OF OFFICE OPERATIONS**

<table>
<thead>
<tr>
<th>OPERATIONS</th>
<th>LANDMARKS AND AIDS BY</th>
<th>METHOD</th>
<th>METHOD</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. AEROTRIANGULATION</td>
<td>B. Thornton</td>
<td>Analytic</td>
<td>Kongsburg Plotter</td>
</tr>
<tr>
<td>2. CONTROL AND BRIDGE POINTS</td>
<td>B. Thornton</td>
<td>Plotted</td>
<td>Checked</td>
</tr>
<tr>
<td>3. STEREOSCOPIC INSTRUMENT</td>
<td>F. Mauldin</td>
<td>Planimetry</td>
<td>Checked</td>
</tr>
<tr>
<td>4. MANUSCRIPT Delineation</td>
<td>F. Mauldin</td>
<td>Contours</td>
<td>Checked</td>
</tr>
<tr>
<td>5. OFFICE INSPECTION PRIOR TO</td>
<td>F. Mauldin</td>
<td>Final Review</td>
<td>Checked</td>
</tr>
<tr>
<td>6. APPLICATION OF FIELD EDIT DATA</td>
<td>N.A.</td>
<td>Smooth Drafted</td>
<td>Checked</td>
</tr>
<tr>
<td>7. COMPILED SECTIONS REVIEW</td>
<td>P. Evans</td>
<td>Class III</td>
<td>Checked</td>
</tr>
<tr>
<td>8. FINAL REVIEW</td>
<td>P. Evans</td>
<td>Class III</td>
<td>Checked</td>
</tr>
<tr>
<td>9. DATA FORWARD TO PHOTOGRAMMETRIC BRANCH</td>
<td>L. O. Neterer, Jr.</td>
<td>Checked</td>
<td></td>
</tr>
<tr>
<td>10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH</td>
<td>P. Demassey</td>
<td>Checked</td>
<td></td>
</tr>
<tr>
<td>11. MAP REGISTERED - COASTAL SURVEY SECTION</td>
<td>Checked</td>
<td></td>
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</table>

**DATE:**

- Apr. 1987
- Apr. 1987
- Apr. 1987
- Apr. 1987
- Dec. 1987
- Dec. 1987
- Jan. 1988
- Jan. 1988
- Jan. 1988
- Jan. 1988
- Jan. 1989
- June 1989
### 1. Compilation Photography

<table>
<thead>
<tr>
<th>Number and Type</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
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</thead>
<tbody>
<tr>
<td>86 B(C) C053-C057</td>
<td>03-09-86</td>
<td>09:31</td>
<td>1:30,000</td>
<td>0.3 ft. above MLLW</td>
</tr>
</tbody>
</table>

**Remarks**

Stage of tide for all photography was based on reference station records for the staff at Honolulu, Hawaii.

### 2. Source of Mean High-Water Line:

The mean high-water line was compiled from office interpretation of the above listed compilation/bridging photographs using stereo instrument methods.

### 3. Source of Mean Lower Low-Water Line:

There was no mean lower low-water line compiled on this map.

### 4. Contemporary Hydrographic Surveys

(List only those surveys that are sources for photogrammetric survey information.)

<table>
<thead>
<tr>
<th>Survey Number</th>
<th>Date(s)</th>
<th>Survey Copy Used</th>
<th>Survey Number</th>
<th>Date(s)</th>
<th>Survey Copy Used</th>
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</table>

### 5. Final Junctions

<table>
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<tr>
<th>North</th>
<th>East</th>
<th>South</th>
<th>West</th>
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</thead>
<tbody>
<tr>
<td>No Survey</td>
<td>TP-01298</td>
<td>No Survey</td>
<td>TP-01296</td>
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**Remarks**
HISTORY OF FIELD OPERATIONS

I. [X] FIELD OPERATION  [ ] FIELD EDIT OPERATION

<table>
<thead>
<tr>
<th>OPERATION</th>
<th>NAME</th>
<th>DATE</th>
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</thead>
<tbody>
<tr>
<td>1. CHIEF OF FIELD PARTY</td>
<td>J. Fredrick</td>
<td>Nov. 1986</td>
</tr>
<tr>
<td>2. HORIZONTAL CONTROL</td>
<td>M. McEwen</td>
<td>Nov. 1986</td>
</tr>
<tr>
<td>3. VERTICAL CONTROL</td>
<td>N.A.</td>
<td>Nov. 1986</td>
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<tr>
<td>4. LANDMARKS AND AIDS TO NAVIGATION</td>
<td>N.A.</td>
<td>Nov. 1986</td>
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II. SOURCE DATA

<table>
<thead>
<tr>
<th>PHOTO NUMBER</th>
<th>STATION NAME</th>
<th>PHOTO NUMBER</th>
<th>STATION DESIGNATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>86B(C)C057</td>
<td>30188, 1973</td>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

5. GEOGRAPHIC NAMES: [ ] REPORT  [X] NONE

6. BOUNDARY AND LIMITS: [ ] REPORT  [X] NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list date submitted to the Geodesy Division)

2 Forms C & GS 152 - CSI Cards  2 Forms 76-86 Abstract of Directions
4 Forms 76-52 Horizontal Directions
3 Forms 75-63 Observations of Sun for Azimuth and Time
NOAA FORM 76-36D
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

TP-01297
RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

<table>
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<tr>
<th>DATA COMPILED</th>
<th>DATE</th>
<th>REMARKS</th>
<th>MARINE CHARTS</th>
<th>HYDRO SUPPORT</th>
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<tr>
<td>Compilation Complete</td>
<td>Jan. 1988</td>
<td>Class III Manuscript</td>
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II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

<table>
<thead>
<tr>
<th>NUMBER</th>
<th>CHART LETTER NUMBER ASSIGNED</th>
<th>DATE FORWARDED</th>
<th>REMARKS</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>M... (1st)</td>
<td>May 1947</td>
<td>Charted landmarks and aids to navigation form</td>
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2. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED:

3. REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED:

III. FEDERAL RECORDS CENTER DATA

1. [X] BRIDGING PHOTOGRAPHS; [X] DUPLICATE BRIDGING REPORT; [X] COMPUTER READOUTS.
2. [ ] CONTROL STATION IDENTIFICATION CARDS; [ ] FORM NO. 567 SUBMITTED BY FIELD PARTIES.
3. [ ] SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
   ACCOUNT FOR EXCEPTIONS:

4. [ ] DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED:

IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

<table>
<thead>
<tr>
<th></th>
<th>SURVEY NUMBER</th>
<th>JOB NUMBER</th>
<th>TYPE OF SURVEY</th>
<th>MAP CLASS</th>
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<tbody>
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<td></td>
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<td></td>
<td>REVISED</td>
<td>RESURVEY</td>
</tr>
<tr>
<td>SECOND EDITION</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DATE OF PHOTOGRAPH</td>
<td></td>
<td>DATE OF FIELD EDIT</td>
<td></td>
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<tr>
<td>THIRD EDITION</td>
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<tr>
<td>DATE OF PHOTOGRAPH</td>
<td></td>
<td>DATE OF FIELD EDIT</td>
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<tr>
<td>FOURTH EDITION</td>
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<tr>
<td>DATE OF PHOTOGRAPH</td>
<td></td>
<td>DATE OF FIELD EDIT</td>
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</table>
SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-01297

This 1:10,000 scale map is one of eight maps in Project CM-8317, Barbers Point to Makapuu Point, Oahu, Hawaii. The project extends from longitude 157° 37' 30" to longitude 158° 10' 00" along the southern coastline of the island of Oahu.

Photographic coverage was provided in March 1986 with color film at 1:30,000 scale using a Wild RC 8 "B" camera (focal length 152.21 millimeters).

Field work prior to compilation was accomplished during November 1986. It consisted of photoidentification of the horizontal control stations to satisfy aerotriangulation requirements.

Analytic aerotriangulation was performed at the Washington Science Center in April 1987.

Compilation was performed at the Atlantic Marine Center, from office interpretation of the 1:30,000 scale color photography in January 1988.

Final review was accomplished at the Atlantic Marine Center in January 1989. A Chart Maintenance Print for the Marine Chart Branch and Notes to the Hydrographer Print for the Hydrographic Branch were prepared and forwarded.

This map is to be registered as a Class III, Final Map.

The original base manuscript and all pertinent data were forwarded to the Washington Science Center for final registration.
AEROTRIANGULATION REPORT
CM-8317
BARBERS PT. TO MAKAPUU PT.
OAHU, HAWAII

APRIL 1987

21. AREA COVERED

This shoreline mapping project covers the southern part of the island of Oahu, Hawaii, from Barbers Pt. to Makapuu Pt. There are five sheets at 1:10,000 scale and three sheets at 1,500 scale that cover the job area. The sheets are numbered TP-01295 through TP-01302.

22. METHOD

Two strips of 1:30,000-scale photographs: 86-B-C052 to C063, 86-B-C092 to C100, and two strips of 1:15,000-scale photographs: 86-B-C113 to C122, 86-B-C131 to C141 were bridged by analytical aerotriangulation methods and adjusted to ground using photo-identified field control. Office identified intersection stations were used as checks.

Compilation points were placed on four additional strips of photographs not used for bridging:

86-A-C002 to C004   1:30,000 scale
86-B-C103 to C105   1:30,000 scale
86-B-C072 to C077   1:15,000 scale
86-B-C084 to C086   1:15,000 scale

Tie points were used to ensure adequate junctions of all strips and were used as supplemental control.

Ratio values were determined for the bridging, and where needed, compilation photographs.

A magnetic tape was generated for plotting base manuscripts on the Kongsburg plotter. Bridged points were based on the Hawaiian Islands, Zone 3 Coordinate System and referenced to the Transverse Mercator projection.

Two each of the eight base manuscripts have been ruled as per Aerotriangulation Instructions.
23. ADEQUACY OF CONTROL

The control for this project is adequate for the job and meets the National Ocean Service's requirements. A listing of closures to control is attached.

24. SUPPLEMENTAL DATA

USGS topographic quadrangles were used to obtain vertical control for bridging.

25. PHOTOGRAPHY

The coverage, overlap, and quality of the photographs were adequate for the job.

Submitted by:

Brian Thornton

Approved and Forwarded:

Don O. Norman
Chief, Aerotriangulation Unit
JOB CM-8317
BARBERS PT TO MAKAPUU PT
OAHU
HAWAIIAN ISLANDS
SHORELINE MAPPING
SCALES 1:5,000
1:10,000

HORIZONTAL CONTROL
JOB CM-8317
BARBERS PT TO MAKAPUU PT
OAHU
HAWAIIAN ISLANDS
SHORELINE MAPPING
SCALES 1:5,000
1:10,000

COMPILATION PHOTOGRAPHS


Fitting to control

- Control point held in adjustment
- Tie point held in adjustment

**STRIP #30-1**

<table>
<thead>
<tr>
<th>STATION NAME</th>
<th>POINT NO.</th>
<th>VALUES IN FEET</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barbers Pt. Lighthouse New, 1933</td>
<td>52100</td>
<td>X: -0.9  Y: -1.6</td>
</tr>
<tr>
<td>Barbers Pt. Lighthouse Sub Pt. 1A</td>
<td>52101</td>
<td>X: -1.0  Y: 0.6</td>
</tr>
<tr>
<td>State Survey 9-3, 1969 Sub Pt. 1B</td>
<td>53101</td>
<td>X: 1.1  Y: -1.1</td>
</tr>
<tr>
<td>Barbers Pt. NAS Base Control Twr. Beacon</td>
<td>226110</td>
<td>X: -2.2  Y: 0.2</td>
</tr>
<tr>
<td>30188, 1973 Sub Pt. 2A</td>
<td>193101</td>
<td>X: -4.6  Y: -5.2</td>
</tr>
<tr>
<td>30188, 1973 Sub Pt. 2B</td>
<td>193102</td>
<td>X: -1.1  Y: -1.7</td>
</tr>
<tr>
<td>Ft. Kamehameha Flagstaff, 1925</td>
<td>166100</td>
<td>X: 2.0  Y: 1.0</td>
</tr>
<tr>
<td>Ft. Kamehameha Flagstaff Sub Pt. 3A</td>
<td>166101</td>
<td>X: 1.3  Y: 3.4</td>
</tr>
<tr>
<td>Pearl Harbor Water Tank B, 1925</td>
<td>188110</td>
<td>X: -1.4  Y: -0.2</td>
</tr>
<tr>
<td>Pearl Harbor Escape Training Tower</td>
<td>181110</td>
<td>X: -0.7  Y: 4.7</td>
</tr>
<tr>
<td>Honolulu Int. Airport Control Twr. Beacon '64</td>
<td>158110</td>
<td>X: -1.0  Y: 0.0</td>
</tr>
<tr>
<td>Honolulu Moanalua Water Tank, 1957</td>
<td>183110</td>
<td>X: -1.7  Y: 2.2</td>
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<tr>
<td>Aliamanu Honolulu Board of Water Supply Tank, '69</td>
<td>184110</td>
<td>X: -0.7  Y: -0.7</td>
</tr>
<tr>
<td>State Survey 1-13, 1969 Sub Pt. 4A</td>
<td>149101</td>
<td>X: 1.7  Y: 0.4</td>
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<tr>
<td>State Survey 1-13, 1969 Sub Pt. 4B</td>
<td>149102</td>
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**STRIP #30-2**

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<th>STATION NAME</th>
<th>POINT NO.</th>
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<tbody>
<tr>
<td>State Survey 3-5, 1969 Sub Pt. 7A</td>
<td>75101</td>
<td>X: 2.8  Y: -2.0</td>
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<tr>
<td>Diamond Head Lighthouse, 1925</td>
<td>76100</td>
<td>X: 3.8  Y: -8.5</td>
</tr>
<tr>
<td>Honolulu Sac. Heart Acad. Cross</td>
<td>89110</td>
<td>X: -3.0  Y: 1.7</td>
</tr>
<tr>
<td>Tie from Strip #15-1</td>
<td>140801</td>
<td>X: -3.2  Y: 2.5</td>
</tr>
<tr>
<td>Tie from Strip #15-1</td>
<td>140802</td>
<td>X: -2.0  Y: 2.5</td>
</tr>
<tr>
<td>Tie from Strip #15-1</td>
<td>140803</td>
<td>X: -1.8  Y: 2.6</td>
</tr>
</tbody>
</table>
△ State Survey 3-6, 1969
  Sub Pt. 8A 63101 2.8 0
  NIU Water Tank, 1963 57100 -2.4 -1.8
  △ Kuapa, 1928 Sub Pt. 9A 55101 -2.8 0.8
  Kuapa, 1928 Sub Pt. 9B 55102 -4.7 -3.0
  △ Makapuu Pt. 1872 RM3 Sub Pt. 10A 47101 1.6 0.3
  Makapuu Pt. 1872 RM3 47110 3.5 -1.2
  Makapuu Pt. Light, 1927 47120 4.1 -1.5

STRIPE #15-1

☐ Tie from Strip #30-1 63801 0.1 -0.8
  63802 1.4 -1.0
  63803 1.0 -1.8
  △ State Survey 1-13 Sub Pt. 4A 149101 -0.3 0.7
  △ State Survey 1-13 Sub Pt. 4B 149102 -0.2 2.4
  △ Sand Island S. Base, 1927 Sub Pt. 5A 120101 -0.7 1.0
  △ Sand Island S. Base, 1927 Sub Pt. 5B 120102 0 -1.7
  △ DeRussy, 1927 Sub Pt. 6A 84101 1.2 0.7
  △ Sub Pt. 6B 84102 -1.1 -0.5

STRIPE #15-2

☐ Tie from Strip #15-1 113801 -0.1 0.7
  113802 -0.1 0.3
  △ Sand Island S. Base, '27 Sub Pt. 5A 120101 -2.4 -0.4
  △ Sand Island S. Base, '27 Sub Pt. 5B 120102 0.6 -1.5
  Honolulu Keeald Basin KGU Twr. 118115 -0.5 0
  Tie from Strip #15-1 118801 -2.0 2.0
  Tie from Strip #15-1 118802 -2.2 1.8
  Tie from Strip #15-1 118803 -1.8 2.1
  △ DeRussy, 1927 Sub Pt. 6A 84101 -0.7 0.6
  DeRussy, 1927 Sub Pt. 6B 84102 -2.1 -0.1
  Honolulu Kaiser Hotel KHVH Twr. '57 120120 -2.5 0
  Tie from Strip #15-1 120801 -2.0 -0.1
  Tie from Strip #15-1 120802 -1.0 0.6
  ☐ Tie from Strip #15-1 120803 -1.2 1.8
  Tie from Strip #15-1 121801 -0.8 2.0
  Tie from Strip #15-1 121802 -1.5 1.3
  Tie from Strip #15-1 121803 0.1 1.9
  ☐ Tie from Strip #30-2 93801 1.4 -1.2
  Tie from Strip #30-2 93802 0.6 -3.9
RATIO VALUES
CM-8317

1:30,000-scale color bridging photographs:

86-B-C052 to C063 Ratio 3.118
86-B-C092 to C100 Ratio 3.132

1:15,000-scale color bridging photographs:

86-B-C131 to C141 Ratio 3.112
86-B-C113 to C122 Ratio 3.104

1:30,000-scale color compilation photographs:

86-A-C002 to C004 Ratio 3.100

1:15,000-scale color compilation photographs:

86-B-C072 to C077 Ratio 3.100
86-B-C084 to C086 Ratio 3.100
<table>
<thead>
<tr>
<th>STATION NAME</th>
<th>SOURCE OF INFORMATION (Index)</th>
<th>AEROTRIANGULATION POINT NUMBER</th>
<th>COORDINATES IN FEET</th>
<th>GEOGRAPHIC POSITION</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BARBERS POINT NAS BASE CONTROL TOWER BEACON, 1957</td>
<td>QUAD 211582</td>
<td>226110</td>
<td>x=</td>
<td>y=</td>
<td></td>
</tr>
<tr>
<td></td>
<td>STA 1057</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30188, 1973</td>
<td>FIELD BOOK</td>
<td>193100</td>
<td>x=</td>
<td>y=</td>
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</tr>
<tr>
<td></td>
<td>COMPUTATIONS</td>
<td></td>
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</tr>
</tbody>
</table>

**Computed By:** [Signature] | Date: [Date]

**Listed By:** [Signature] | Date: [Date]

**Hand Plotting By:** [Signature] | Date: [Date]

---

**Geodetic Datum:** Old Hawaiian Datum

**Originating Activity:** Coastal Mapping Unit, AMC, Norfolk, VA

**Geographic Position:**
- φ Latitude: 21° 18' 48.597"
- λ Longitude: 158° 04' 24.769"
31. **DECLINEATION:**

Delineation was accomplished using Wild B-8 stereo instrument compilation methods. Instrument compilation was used to delineate shoreline, alongshore, and interior detail based upon office interpretation of the 1:30,000 scale bridging/compilation color photographs.

All photographs used to compile this map are listed on NOAA form 76-36B. The photography was adequate. There were no mean lower low water infrared photographs for this project.

32. **CONTROL:**

The horizontal control was adequate. Refer to the Aerotriangulation Report, dated April 1987.

33. **SUPPLEMENTAL DATA:**

None.

34. **CONTOURS AND DRAINAGE:**

Contours are not applicable to this project. Drainage was compiled from office interpretation of the photographs.

35. **SHORELINE AND ALONGSHORE DETAILS:**

The mean high water line was compiled from office interpretation of the bridging/compilation photographs as described in item #31. There was no mean lower low water line compiled on this map.

36. **OFFSHORE DETAILS:**

Offshore detail was compiled by instrument methods using the 1:30,000 scale bridging/compilation color photographs as described in item #31.

37. **LANDMARKS AND AIDS:**

There are one charted landmark and five charted aids to navigation within the limits of this map. Among these, one landmark was located/verified photogrammetrically.
38. **CONTROL FOR FUTURE SURVEYS:**

None.

39. **JUNCTIONS:**

Refer to the Data Record Form 76-36B, item 5, of the Descriptive Report.

40. **HORIZONTAL AND VERTICAL ACCURACY:**

See item #32.

46. **COMPARISON WITH EXISTING MAPS:**

A comparison was made with the following U.S. Geological Survey Quadrangles:

- Pearl Harbor, Hawaii; dated 1983; scale 1:24,000
- Ewa, Hawaii; dated 1983; scale 1:24,000

47. **COMPARISON WITH NAUTICAL CHARTS:**

A comparison was made with the following National Ocean Service charts:

- 19013; 13th edition; dated February 12, 1983; scale 1:675,000
- 19357; 17th edition; dated October 15, 1983; scale 1:80,000
- 19362; 10th edition; dated November 6, 1982; scale 1:20,000

**ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:**

None.

**ITEMS TO BE CARRIED FORWARD:**

None.

Submitted by:

Paul L. Evans, Jr.
Cartographic Technician
December 10, 1987

Approved:

James L. Byrd, Jr.
Chief, Coastal Mapping Unit
GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-8317 (Oahu, Hawaii)

TP-01297

Barbers Point Naval Air Station

Ewa Beach (locality)

Mamala Bay

Oahu

Pacific Ocean

Approved:

Charles E. Harrington
Chief Geographer
Nautical Charting Division
61. GENERAL STATEMENT

See Summary included with this Descriptive Report.

The Office Instructions were executed as indicated in paragraph 2.1 with reference to the Old Hawaiian horizontal datum. Reference to the horizontal North American Datum 1927 in paragraphs 4.5 and 4.6 of the Aerotriangulation Instructions and paragraphs 2.6 and 5.2.3 of the Office Instructions were inapplicable and were ignored.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable.

63. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with the following USGS quadrangles:

EWAL, HAWAII, dated 1983, and PEARL HARBOR, HAWAII, dated 1983; both are 1:24,000 scale.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

There are no contemporary hydrographic surveys within the limits of this map.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with the following nautical charts:

19013, 13th edition, dated February 12, 1983, scale 1:675,000
19357, 17th edition, dated October 15, 1983, scale 1:80,000
66. **ADEQUACY OF RESULTS AND FUTURE SURVEYS:**

This map complies with the Project Instructions and meets the requirements for National Standards of Map Accuracy.

Submitted by:

Lowell O. Neterer, Jr.
Final Reviewer
January 1989

Approved for Forwarding:

Billy H. Barnes
Chief, Quality Assurance Group

Approved:

Chief, Photogrammetric Production Section

Chief, Photogrammetry Branch
CARTOGRAPHIC FEATURES OF POSSIBLE LANDMARK VALUE LISTING

Page 1 of 1

PROJECT: CM-8317

MAP NUMBER (Scale); Locality: TP-01297; 1:10,000; Barbers Point to Makapuu Point, Oahu, Hawaii

GEODETCIC DATUM: Old Hawaiian Datum

The following cartographic features have been identified as being of possible landmark value. These features have been identified and measured during photogrammetric operations. Refer to Nautical Charting Division Standard Digital Data Exchange Format documentation for quality code (QC) criteria and clarification of cartographic codes (CC).

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<thead>
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<th>FEATURE DESCRIPTION</th>
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<th>GEOGRAPHIC POSITION ° - ' - &quot;</th>
<th>NCD</th>
<th>DATE OF LOCATION</th>
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<td>21 18 48.60 158 04 24.77</td>
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Listing approved by: Lowell A. Hefer

FINAL REVIEWER: Lowell A. Hefer

DATE: Feb 1989
## INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

<table>
<thead>
<tr>
<th>CHART</th>
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