Form 304
U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>Shoreline</th>
</tr>
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<tbody>
<tr>
<td>Field No.</td>
<td>6116</td>
</tr>
<tr>
<td>Office No.</td>
<td>T-11177</td>
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</table>

LOCALITY

<table>
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<tr>
<th>State</th>
<th>Massachusetts</th>
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<tbody>
<tr>
<td>General locality</td>
<td>Massachusetts Bay</td>
</tr>
<tr>
<td>Locality</td>
<td>Plymouth Harbor</td>
</tr>
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</table>

CHIEF OF PARTY

E. H. Kirsch, Chief of Field Party
E. H. Kirsch, Baltimore District Officer

LIBRARY & ARCHIVES

DATE January 2, 1966

* 1951 - 1953
DATA RECORD

T-11177

Project No. (II): Ph-116


Quadrangle Name (IV):

Chief of Party: E. H. Kirsch

Photogrammetric Office (III): Baltimore, Md.

Officer-in-Charge: E. H. Kirsch

Instructions dated (II) (III):
30 April 1953
9 June 1953 (Supplement No. 1)
9 July 1953 (Supplement No. 2)
11 July 1953 (Supplement No. 3)
10 July 1953 (Letter 70-lm)
12 February 1954 (office)

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): 1.000

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Date registered (IV):

Applied to Chart No.

Publication Scale (IV): 

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): NHW

Mean sea level except as follows:
Elevations shown as (N) refer to mean high water
Elevations shown as (G) refer to soundings datum
i.e., mean low water or mean lower low water

Reference Station (III): PLYMOUTH NATIONAL MONUMENT, 1886

Lat.: 41° 57' 36.11" (1111.2m) Long.: 70° 10' 35.015" (806.4m)

Adjusted

Plane Coordinates (IV):

State: Mass. Zone: Mainland

Y= X=

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office,
or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

Form T-Pag1

M-2618-12(4)
Areas contoured by various personnel
(Show name within area)
(I) (II) (III)
DATA RECORD

Field Inspection by (II): W. M. Reynolds
Date: Aug. 1953

Planetary contouring by (II):
Date:

Completion Surveys by (II):
Date:

Mean High Water Location (III) (State date and method of location): 1953 - Date of Photography; Field Inspection

Projection and Grids ruled by (IV): A. Riley
Date: 11/13/53

Projection and Grids checked by (IV): A. Riley
Date: 11/20/53

Control plotted by (III): J. King
Date: 3/4/54

Control checked by (III): L. A. Senasack
Date: 3/5/54

Radial Plot (III): F. M. Wisiecki
Date: 15 Mar. 1954

Stereoscopic Instrument compilation (III):
- Pianimetry
- Contours

Manuscript delineated by (III): J. Honick
Date: 19 Aug. 1955

Photogrammetric Office Review by (III): R. Glaser
Date: 7 Sept. 1955

Elevations on Manuscript
checked by (II) (III):
Date:
PHOTOGRAPHS (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
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<td>DPT-2K-169 to 172</td>
<td>10/22/51</td>
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<td>1:10,000</td>
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<tr>
<td>DPT-5K-120</td>
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<td>DPT-5K-164 to 167</td>
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<tr>
<td>DPT-5K-183 to 186</td>
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<td>1105</td>
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<td>4.7'</td>
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<tr>
<td>J-433</td>
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<td>0710</td>
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<td>J-575</td>
<td>5/9/53</td>
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<td>J-580 to J-588</td>
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<td>J-599 to J-605</td>
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<td>J-616, J-617</td>
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<td>1407</td>
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<td>-0.3'</td>
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Tide (III)

From Predicted tide tables

<table>
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<tr>
<th>Reference Station:</th>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
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<tbody>
<tr>
<td>Boston</td>
<td>9.5</td>
<td>11.0</td>
<td></td>
</tr>
<tr>
<td>Plymouth</td>
<td>9.0</td>
<td>11.1</td>
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</table>

Washington Office Review by (IV): S.E. Blackwell

Date: Nov. 1964

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 10
Shoreline (More than 200 meters to opposite shore) (III): 13 mi
Shoreline (Less than 200 meters to opposite shore) (III): 3 mi.
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 43 Recovered: 36 Identified: 29
Number of BMs searched for (II): 4 Recovered: 4 Identified:
Number of Recoverable Photo Stations established (III): 2
Number of Temporary Photo Hydro Stations established (III): none

Remarks:
Summary to Accompany Descriptive Report

T-11177 and T-11178

T-11177 and T-11178 are 2 of the 40 maps comprising Project PH-116. Project coverage includes, Cape Cod Bay shoreline, the east shore of Cape Cod, Martha's Vineyard and Nantucket Islands. The subject maps cover the portion of Cape Cod Bay shoreline extending from Kingston Bay southeast to Rocky Point.
2. AREAL FIELD INSPECTION

This shoreline sheet is located in the Cape Cod area of Massachusetts along the westerly side of Plymouth Bay, and includes Kingston Bay, part of Duxbury Bay and Plymouth Harbor.

The towns of Kingston and Plymouth are located within the sheet. Plymouth is of historical interest, being the landing place of the Pilgrims in 1620 and the site of famous "Plymouth Rock".

Although the area is principally a summer resort and tourist center some industry is located in and near Plymouth. These are chiefly woolen mills, a large rope factory and several mills engaged in the manufacture of nails, tacks, etc.

A small commercial fishing fleet also bases out of Plymouth.

The area is well developed along the coast and has a network of good highways connecting it to Boston and Providence, R.I.

The New York, New Haven and Hartford Railroad also furnishes frequent passenger and freight service to and from the larger cities mentioned above.

Field inspection is believed complete and was performed on the following photographs: DPT-2K-169 through DPT-2K-171; DPT-5K-165; DPT-5K-167; DPT-5K-183 through DPT-5K-188; and single lens low water photographs as listed in paragraph 7.

3. HORIZONTAL CONTROL

All Coast and Geodetic Survey control was searched for and where recovered was identified, except in areas where stations were closely spaced. In areas where a plethora of control existed, stations were identified in order to have a control point at approximately one-mile intervals.

In addition to the above, 14 third-order traverse stations established by the Massachusetts Geodetic Survey were recovered. All stations which would appear on a special set of photographs taken at approximate low water, were identified.

The following stations were reported lost: 29AY; 1AG; 1AH; CLUB(MGS)1934; LONG BEACH NORTH (MGS) 1934; REED TOWER; and PLYMOUTH UNIVERSALIST CHURCH SPIRE 1908; KINGSTON RIVET FACTORY CHIMNEY 1809.
4. VERTICAL CONTROL

Four tidal bench marks were recovered in good condition: PLYMOUTH HARBOR BENCH MARK 4 (Reset 1920); BENCH MARK 7 (1916); BENCH MARK 8 (1916); and BENCH MARK 9 (1916).

5. CONTOURS AND DRAINAGE

Contouring was not a part of the requirements for this project.

Three perennial streams, Jones River, Town Brook and Eel River are located in the area. These streams are self-evident from the photographs.

6. WOODLAND COVER

Inapplicable.

7. SHORELINE AND ALONGSHORE FEATURES

The mean high water line was inspected by walking along the beach and has been indicated by symbol on the photographs.

The low water line is to be compiled by stereoscopic instrument in the Washington Office. See Paragraph 7, Field Inspection Report, T-1173( ).

All low water data appear on 53-J photographs 574 thru 577, 579 thru 588, 599 thru 606, 610 and 616.

There are no bluffs or cliffs worthy of symbolizing on the map.

All docks, wharves, piers, etc. are adequately covered by notes on the photographs.

There are no submarine cables in the area.

8. OFFSHORE FEATURES

Three rocks have been indicated on the photographs with their height above the water and the date of their determination. Heights of rocks above mean low water on photograph DPT-5K-171 were determined from observations on tide staff and reduced by field party.

9. LANDMARKS AND AIDS

Six landmarks for nautical charts were retained, five were deleted and one was added.

All landmarks are adequately covered by Form 567 and the photographs.

* Compilation was by graphic methods. Refer to items 31 and 35 of the Compilation Report.
Three permanent aids to navigation were located by intersection from existing triangulation. These aids are Plymouth Harbor Channel Lights 4 and 11 and Plymouth Beach Pierhead Daybeacon.

Splitting Knife Channel Range Front and Rear Lights and South Channel Range Front and Rear Lights were located by third-order traverse, according to Photogrammetric Instructions No. 47. The azimuths of these ranges are to be determined from their traverse positions. Their locations made triangulation methods impractical nor was it practical to identify a point on range.

10. **BOUNDARIES, MONUMENTS AND LINES**

   Inapplicable.

11. **OTHER CONTROL**

   The following recoverable topographic stations were established: GONE and BAKE.

12. **OTHER INTERIOR FEATURES**

   All roads have been classified in accordance with Geological Survey Topographic Instructions, Chapter 3A1.

   All buildings have been inspected according to Chapter 546 of the Topographic Manual.

   There are no bridges or cables over navigable waters.

   There are no airports or landing fields.

13. **GEOGRAPHIC NAMES**

   No discrepancies in charted names were found during field work; nor were any new names uncovered.

14. **SPECIAL REPORTS AND SUPPLEMENTAL DATA**

   Letter of Transmittal No. Ph-116-2, Forms 567, Landmarks and Aids to Navigation, to be forwarded to Washington Office at a later date.


Submitted
8 September 1953

William M. Reynolds
William M. Reynolds
Cartographic Survey Aid

Approved & Forwarded
11 September 1953

E.H. Kirsch
E.H. Kirsch
Chief of Party
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR y-CORDINATE</th>
<th>LONGITUDE OR x-CORDINATE</th>
<th>DISTANCE FROM GRID IN FEET OR PROJECTION LINE IN METERS</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<tbody>
<tr>
<td>160 B, MGS, 1941</td>
<td>MOS p.21</td>
<td>N.A. 1927</td>
<td>319,586.73</td>
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<td>IAA, MGS</td>
<td>MOS p.34</td>
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<tr>
<td>KINGSTON, UNITARIAN CHURCH, 1886</td>
<td>p. 635</td>
<td>n</td>
<td>141 59 36.100</td>
<td>70 43 59.185</td>
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<td>PLYMOUTH HIGH SCHOOL DOME, 1908</td>
<td>p. 727</td>
<td>n</td>
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<td>PLYMOUTH CORDAGE WORKS LARGE CHIMNEY, 1908</td>
<td>GTZ G-4214</td>
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<td>141 58 18.596</td>
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<td>PLYMOUTH METHODIST EPISCOPAL CHURCH, 1908</td>
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<td>n</td>
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<td>PLYMOUTH NATIONAL MONUMENT, 1886</td>
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<td>PLYMOUTH COURTHOUSE CUFOLA, 1908</td>
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<td>n</td>
<td>141 57 25.674</td>
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<tr>
<td>29 AU, MGS, 1934</td>
<td>MOS p.21</td>
<td>n</td>
<td>365,136.53</td>
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<td>53A, MGS, 1935</td>
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<td>364,663.76</td>
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1 FT. = .304800 METER

COMPUTED BY: B. Kurs
DATE: 2/23/54

CHECKED BY: J. Steinberg
DATE: 2/25/54
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<th>DATUM</th>
<th>LATITUDE OR Y-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET OR PROJECTION LINE IN METERS</th>
<th>SCALE FACTOR</th>
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<td>N.A. 1927</td>
<td>41 59 14.361</td>
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<td>29 Av, MGS, 1934</td>
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<td>n</td>
<td>360°00'55.41</td>
<td>053.51 (1974.19)</td>
<td>1.7 (1522.3)</td>
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<tr>
<td>29AX, MGS, 1934</td>
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<td>817°54'21.82</td>
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<td>Holmes MGS, 1934</td>
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<td>1 AL, MGS</td>
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<td>North Plymouth MGS</td>
<td>MGS p. 22</td>
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<td>352°18'51.41</td>
<td>2,184.36 (2514.09)</td>
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<td>State Pier, MGS 1934</td>
<td>GTZ G-4261 p. 270</td>
<td>1934</td>
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<td>1 AP, MGS</td>
<td>MGS p. 20</td>
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<td>4,410.19</td>
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<td>PLYMOUTH, SAMOSET TANK, MGS, 1938</td>
<td>GTZ a-4249 p. 245</td>
<td>41 57 08.065</td>
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<td>LONG BEACH SOUTH</td>
<td>MGS p. 22</td>
<td>314,624.81</td>
<td>1,824.58</td>
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<td>PLYMOUTH TRINITARIAN CHURCH, SPIRE, 1908</td>
<td>p. 728</td>
<td>41 57 20.267</td>
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<td>PLYMOUTH FIRST CHURCH, SPIRE, 1908</td>
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<td>41 57 19.451</td>
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<td>KINGSTON CHURCH SHORT SPIRE, 1908</td>
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<td>41 59 35.56</td>
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<td>PLYMOUTH HARBOR SOUTH CHANNEL RANGE FRONT LT, 1953</td>
<td>Field Comp. Form 288</td>
<td>41 57 21.619</td>
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<td>PLYMOUTH HARBOR SPLITTING KNIFE CHANNEL RANGE FRONT LT, 1953</td>
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1 FT. = 0.3048006 METER

COMPUTED BY: S. Kure
DATE: 2/23/54
CHECKED BY: J. Steinberg
DATE: 2/24/54
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<th>SOURCE OF INFORMATION</th>
<th>DATUM</th>
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<th>LONGITUDE OR a-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<tbody>
<tr>
<td>Plymouth Beach Pierhead Daybeacon, 1953</td>
<td>Field Comp. Form 28B</td>
<td>N.A. 1927</td>
<td>41 59 15 918</td>
<td>70 39 13 461</td>
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<td>Sub. Pt. North Plymouth</td>
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<td>Sub. Pt. 29 AW, MGS, 1934</td>
<td></td>
<td></td>
<td>824,468.33</td>
<td>4,468.33 (531.67)</td>
<td>1361.9 (162.1)</td>
<td></td>
<td></td>
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<tr>
<td>Sub. Pt. 29 AU, MGS, 1934</td>
<td></td>
<td></td>
<td>359,898.10</td>
<td>4,898.10 (110.60)</td>
<td>1490.3 (33.7)</td>
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<tr>
<td>Sub. Pt. 1 AK, MGS</td>
<td></td>
<td></td>
<td>817,761.54</td>
<td>2,761.54 (2235.46)</td>
<td>812.6 (681.6)</td>
<td></td>
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<tr>
<td>Sub. Pt. 29 AX, MGS, 1934</td>
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<tr>
<td>Sub. Pt. Monk Hill, 1835</td>
<td></td>
<td>N.A. 1927</td>
<td>41 57</td>
<td>70 43</td>
<td>1191.6 (659.6)</td>
<td></td>
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<tr>
<td>Sub. Pt. Long Beach South, MGS, 1934</td>
<td></td>
<td></td>
<td>41 56</td>
<td>70 37</td>
<td>1625.5 (225.7)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Long Beach North MGS, Ref. 1934</td>
<td></td>
<td></td>
<td>41 58</td>
<td>70 38</td>
<td>85.2 (1766.0)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Holmes Rim 2, MGS, 1934</td>
<td></td>
<td></td>
<td>41 58</td>
<td>70 40</td>
<td>770.5 (1080.7)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>State Pier, MGS, 1934 Sub. Pt.</td>
<td></td>
<td></td>
<td>41 57</td>
<td>70 39</td>
<td>1019.0 (802.2)</td>
<td></td>
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</table>

1 FT = 304.8006 METER

<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR y-COORDINATE</th>
<th>LONGITUDE OR x-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sub. Pt. IAA, NGS, 1936</td>
<td>N.A. 1927</td>
<td></td>
<td>338.939.03</td>
<td>3939.03</td>
<td>(1060.27)</td>
<td></td>
<td>1200.6 (323.4)</td>
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</tr>
<tr>
<td>Plymouth Harbor Channel Lt. 11, 1953</td>
<td>Form 28 B</td>
<td></td>
<td>804.639.46</td>
<td>1639.46</td>
<td>(360.54)</td>
<td></td>
<td>1411.1 (109.9)</td>
<td></td>
</tr>
<tr>
<td>Plymouth Harbor Channel Lt. 4</td>
<td>n</td>
<td></td>
<td>11 58 02.709</td>
<td>70 38 13.100</td>
<td></td>
<td></td>
<td>83.6 (1767.6)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>n</td>
<td></td>
<td>11 58 47.072</td>
<td>70 39 26.221</td>
<td></td>
<td></td>
<td>1452.3 (389.9)</td>
<td></td>
</tr>
</tbody>
</table>

1 FT. = 0.3048006 METER

COMPUTED BY: J. Steinberg     DATE: 2/24/54         CHECKED BY: L. A. Senasack   DATE: 2/26/54
The Photogrammetric Plot Report is part of the Descriptive Report for Survey No. T-11173.

31. **DELINEATION**

Graphic methods were used to delineate this manuscript. The delineation was done on a worksheet and transferred to the manuscript by scribing methods.

Because the RMA photographs were considerably smaller in scale than the worksheet, it was necessary to locate more detail points than usually required. The vertical projector was used to compensate for the scale difference.

Swamp and marsh areas in the interior and a transmission line were not field inspected. These were office interpreted with the aid of the U.S.G.S. Plymouth quadrangle.

The interior limits of delineation are as specified in the project instructions.

32. **CONTROL**

Refer to Photogrammetric Plot Report.

33. **SUPPLEMENTAL DATA**

The U.S.G.S. Plymouth quadrangle was used for geographic names.

34. **CONTOURS AND DRAINAGE**

Contours: Inapplicable.

Drainage: A few small interior streams with geographic names were not indicated by field inspection. They were delineated with the aid of the quadrangle and shown as unsurveyed streams.

35. **SHORELINE AND ALONGSHORE DETAILS**

Shoreline inspection was adequate.

The mean low water line, shown on the map manuscript with closely spaced dots, was field inspected as definite and observed at low tides. The low water line field inspected as approximate as well as all low water lines delineated in the office from photographs taken at low tide are shown with the usual approximate low water line symbol.

Shallow areas were delineated from office interpretation of the photographs.
36. **OFFSHORE DETAILS**

The limits of Browns Bank and the channel names "Cowyard" could not be delineated from the photographs.

37. **LANDMARKS AND AIDS**

Forms 567 have been submitted for 7 landmarks and 8 non-floating aids to be charted, and 5 landmarks recommended for deletion.

38. **CONTROL FOR FUTURE SURVEYS**

Forms 524 for two topographic stations have been prepared. They are BAKE, 1953 and GONE, 1953.

No photo-hydro stations have been located in the compilation office. Refer to the hydrographic survey data for photo-hydro stations located by the hydrographic party.

39. **JUNCTIONS**

Junctions are in agreement with T-11173 to the north and T-11178 to the east. There are no contemporary surveys to the south and west.

40. **HORIZONTAL AND VERTICAL ACCURACY**

No comment.

41 = 45

Inapplicable.

46. **COMPARISON WITH EXISTING MAPS**

COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Chart No. 245, scale 1:20,000 published April 1932 (2nd edition), corrected to 2/26/55.

Items to be applied to Nautical Charts immediately:
None.

Items to be carried forward:
None.

Respectfully submitted
19 August 1955

Jack Honick
Carto. Photo. Aid

Approved and Forwarded

E. H. Kirsch
Capt. C&GS
Baltimore District Officer
PHOTOGRAMMETRIC OFFICE REVIEW

T. 11/77


5. Horizontal control stations of third-order or higher accuracy ✓ 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) ✓ 7. Photo hydro stations ✓ 8. Bench marks ✓

ALONGSHORE AREAS

(Nautical Chart Data)

PHYSICAL FEATURES


CULTURAL FEATURES


BOUNDARIES

31. Boundary lines ✓ 32. Public land lines ✓

MISCELLANEOUS


Reviewed by: ____________________________
Supervisor, Review Section or Unit: ____________________________

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

Compiler: ____________________________
Supervisor: ____________________________

43. Remarks: ____________________________
62. Comparison with Registered Topographic Surveys

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>455</td>
<td>1853</td>
<td>1:10,000</td>
</tr>
<tr>
<td>455a</td>
<td>1908</td>
<td>1:10,000</td>
</tr>
<tr>
<td>3625</td>
<td>1916</td>
<td>1:20,000</td>
</tr>
</tbody>
</table>

Prior survey T-3625 has some rock information not shown on T-11177. For Bureau charting purposes, rock information not shown on T-11177 was carried forward (from T-3625) to its contemporary hydrographic survey (H-8165) by the Hydrographic Branch.

Except as qualified above, the new survey supersedes the prior Bureau surveys for charting purposes in the common areas.

63. Comparison with Maps of Other Agencies

USGS quadrangle, Plymouth 1950 scale 1:24,000

No significant differences were noted.

64. Comparison with Contemporary Hydrographic Surveys

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>H-8165</td>
<td>1954</td>
<td>1:10,000</td>
</tr>
</tbody>
</table>

T-11177 provided the shoreline for the hydrographic survey. The details are shown unchanged on the hydrographic survey smooth sheet.

No changes affecting the hydrographic survey were made during this photogrammetric review.

The hydrographic survey has some rocks not shown on T-11177. This information was either located by the subject hydrographic survey or carried forward from T-3625 (refer to item 62) and hydrographic surveys H-3034 and H-3036.

Surveys T-11177 and H-8165 together contain the required topographic information.
65. **Comparison with Nautical Charts**

No. 245  scale 1:20,000  reconstructed in 1956
revised 4/1/63

T-11177 was used in reconstructing the chart. No changes
affecting the chart were made during review of the topographic
survey.

66. **Adequacy of Results and Future Surveys**

This map meets the National Standard of Map Accuracy and
Bureau requirements.

Reviewed by:

S. G. Blankenbaker

Approved by:

Chief, Photogrammetric Branch  Chief, Nautical Chart Division

Chief, Photogrammetry Division
**DEPARTMENT OF COMMERCE**
**U.S. COAST AND GEODETIC SURVEY**

**NONFLOATING AIDS OR LANDMARKS FOR CHARTS**

Baltimore, Maryland 18 Aug., 1955

I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

The positions given have been checked after listing by R. Glaser

E. J. Fries
Chief of Party

<table>
<thead>
<tr>
<th>STATE</th>
<th>MASSACHUSETTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>LOOKOUT TOWER</td>
<td>Monk Hill Fire, 60 ft. high (349)</td>
</tr>
<tr>
<td>DOMES</td>
<td>76 ft. high, (121)</td>
</tr>
<tr>
<td>TANK</td>
<td>steel, water, 124 ft. high (244)</td>
</tr>
<tr>
<td>CUPOLA</td>
<td>barn, shingled, 12 ft. high (137)</td>
</tr>
<tr>
<td>STACK</td>
<td>(Plymouth Cordage Works Large Chimney 1908) brick, 175 ft. high (182); now charted CHY</td>
</tr>
<tr>
<td>MONUMENT</td>
<td>(Plymouth National Monument 1886) 56 ft. high (165)</td>
</tr>
<tr>
<td>TANK</td>
<td>(Plymouth Sansest Tank (MGE) 1938) steel, water, 54 ft. high (244)</td>
</tr>
</tbody>
</table>

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED

Baltimore, Maryland 18 August 1955

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E. H. Kerns
Chief of Party

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<tr>
<th>STATE</th>
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</tr>
</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>-------</td>
<td>------------</td>
</tr>
<tr>
<td>DUXBURY PIER LIGHT</td>
<td>(Duxbury Pier Lighthouse, 1877)</td>
</tr>
<tr>
<td>PLYMOUTH HARBOR CHANNEL LIGHT 4</td>
<td>(Plymouth Harbor Channel Lt. 4, 1953)</td>
</tr>
<tr>
<td>PLYMOUTH HARBOR CHANNEL LIGHT 11</td>
<td>(Plymouth Harbor Channel Lt. 11, 1953)</td>
</tr>
<tr>
<td>PLYMOUTH HARBOR CHANNEL LIGHT 11</td>
<td>(Plymouth Harbor Channel Lt. 11, 1953)</td>
</tr>
<tr>
<td>PLYMOUTH HARBOR SOUTH CHANNEL RANGE FRONT LIGHT</td>
<td>(Plymouth Harbor South Channel Range Front Light 1953)</td>
</tr>
<tr>
<td>PLYMOUTH HARBOR SOUTH CHANNEL RANGE REAR LIGHT</td>
<td>(Plymouth Harbor South Channel Range Rear Light 1953)</td>
</tr>
<tr>
<td>PLYMOUTH HARBOR SOUTH CHANNEL RANGE REAR LIGHT</td>
<td>(Plymouth Harbor South Channel Range Rear Light 1953)</td>
</tr>
<tr>
<td>PLYMOUTH HARBOR SPLITTING KNIFE CHANNEL</td>
<td>(Plymouth Harbor SPLITTING KNIFE CHANNEL REAR LIGHT 1953)</td>
</tr>
<tr>
<td>PLYMOUTH HARBOR SPLITTING KNIFE CHANNEL</td>
<td>(Plymouth Harbor SPLITTING KNIFE CHANNEL REAR LIGHT 1953)</td>
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<tr>
<td>PLYMOUTH HARBOR SPLITTING KNIFE CHANNEL</td>
<td>(Plymouth Harbor SPLITTING KNIFE CHANNEL REAR LIGHT 1953)</td>
</tr>
<tr>
<td>PLYMOUTH BEACH PIERHEAD DAYBEACON</td>
<td>(Plymouth Beach Pierhead Daybeacon, 1953)</td>
</tr>
<tr>
<td>PLYMOUTH BEACH PIERHEAD DAYBEACON</td>
<td>(Plymouth Beach Pierhead Daybeacon, 1953)</td>
</tr>
</tbody>
</table>

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**DEPARTMENT OF COMMERCE**
U.S. COAST AND GEODETIC SURVEY

**NONFLOTTING AIDS OR LANDMARKS FOR CHARTS**

Baltimore, Maryland  
18 August, 1955

I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be the charts indicated.

The positions given have been checked after listing by

R. Glaser

E. H. Kirch

**Chief of Party.**

<table>
<thead>
<tr>
<th>STATE</th>
<th>MASSACHUSETTS</th>
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<tbody>
<tr>
<td>CHARITING NAME</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>-------</td>
<td>--------------</td>
</tr>
<tr>
<td>BLACK</td>
<td>Not visible</td>
</tr>
<tr>
<td>SPIRE</td>
<td>Not visible</td>
</tr>
<tr>
<td>BARN</td>
<td></td>
</tr>
<tr>
<td>DOME</td>
<td>Obscured by trees</td>
</tr>
<tr>
<td>CUPOLA</td>
<td>Too small &amp; hard to find</td>
</tr>
</tbody>
</table>

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS
GEOGRAPHIC NAMES LIST

Bethel Church
Billington Ledge
Bradford House
Browns Bank

Chiltonville
Christ Church
Coles Hill
Cowyard
Cordage

Duxbury Bay

Elm Street
El River

Fort Standish
Foundry Pond
Foundry Road
Furnace Brook

Goose Point Channel

Halls Brook
Hedge Pond
Hedge School
High Cliff
Holmes Point
Howland Lane

Ichabods Flat

Jabez Corner
Jones River
Jordan Hospital

Kingston
Kingston Bay
Kingston Elementary School

Leach Pond
Lucas Pond

Manters Point
Maple Ave. School
Massachusetts 3 (Hwy)
Massachusetts 3A (Hwy)
Massachusetts 27 (Hwy)
Massachusetts 80 (Hwy)
Massachusetts 106 (Hwy)
Memorial Bldg
Middleboro Road
Mt. Pleasant Elementary School
48. **GEOGRAPHIC NAMES LIST (cont'd)**

New York-New Haven and Hartford RR
North Plymouth

Old Sandwich Road
Pilgrim Hall
Plymouth
Plymouth Bay
Plymouth Beach
Plymouth Harbor
Plymouth Reservoir
Plymouth Rock
Portuguese Church
Poverty Point

Raboth Road
Rocky Nook
Rocky Nook Point

Saquish Head
Saquish Neck

(2) Seaside Station
Second Brook
Smelt Brook
Smelt Pond Road
Splitting Knife
Spoonor Pond
St. Joseph Cemetery
St. Joseph Church
St. Mary's Church
St. Peter's Church
Summer Street

The Nummet
Town Branch
Town Brook

U. S. Hwy (Hwy)

Warren Cove
Watson Hill

(3) Wellingeley
White Flat

Zion Church

(1) Chart 245 and Plymouth quad. are in disagreement as to the placement of this name.

(2) Name on Chart 245 only. Name should be verified.

(3) Appears only on Chart 245. Placement and/or use should be verified.
A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under “Comparison with Charts” in the Review.