

11177

Diag. Cht. No. 1208-2.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey **Shoreline**

Field No. **6116** Office No. **T-11177**

LOCALITY

State **Massachusetts**

General locality **Massachusetts Bay**

Locality **Plymouth Harbor**

~~* 1953~~

CHIEF OF PARTY

E. H. Kirsch, Chief of Field Party

E. H. Kirsch, Baltimore District Officer

LIBRARY & ARCHIVES

DATE **January 2, 1966**

COMM-DC 61300

* 1951-1953

11177

DATA RECORD

(1)

T-11177

Project No. (II): Ph-116

Quadrangle Name (IV):

Field Office (II): Plymouth, Mass.

Chief of Party: E. H. Kirsch

Photogrammetric Office (III): Baltimore, Md.

Officer-in-Charge: E. H. Kirsch

Instructions dated (II) (III): 30 April 1953

Copy filed in Division of
Photogrammetry (IV)

9 June 1953 (Supplement No. 1)

9 July 1953 (Supplement No. 2)

11 July 1953 (Supplement No. 3)

10 July 1953 (Letter 70-1mh)

12 February 1954 (office)

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):

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): MHW

Mean sea level except as follows:

Elevations shown as (25) refer to mean high water

Elevations shown as (5) refer to sounding datum

i.e., mean low water or mean lower low water

Reference Station (III): PLYMOUTH NATIONAL MONUMENT, 1886

Lat.: 41° 57' 36.114" (1114.2m) Long.: 70° 40' 35.015" (806.4m)

Adjusted

~~Unadjusted~~

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.

SHORELINE

Areas contoured by various personnel
(Show name within area)
(II) (III)

DATA RECORD

(3)

Field Inspection by (II): **W. M. Reynolds**

Date: **Aug. 1953**

Planetable 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 ~~by (III):~~

Date: **15 Mar. 1954**

~~Control checked by (III):~~ **F. M. Wisiecki**

Planimetry

Date:

Stereoscopic Instrument compilation (III):

Contours

Date:

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:

(4)

Camera (kind or source) (III): U.S.C. & G. S. Single lens, camera "J" and Production and Marketing Administration, single lens.

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
DPT-2K-169 to 172	10/22/51	1236	1:10,000	4.2' (above MLW)
DPT-5K-120	7/26/52	1006	"	1.8' " "
DPT-5K-164 to 167	"	1048	"	4.2' " "
DPT-5K-183 to 186	"	1105	"	4.7' " "
J-433	4/29/53	0710	"	1.8' " "
J-575	5/9/53	1334	"	-0.4' (below MLW)
J-580 to J-588)	"	1342	"	-0.4' " "
J-599 to J-605	"	1358	"	-0.4' " "
J-616, J-617	"	1407	"	-0.3' " "

Tide (III)
From Predicted tide tables

Reference Station: Boston
Subordinate Station: Plymouth
Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
	9.5	11.0
1.0	9.6	11.1

Washington Office Review by (IV): S.G. Blankenbaker

Date: Nov. 1964

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

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:

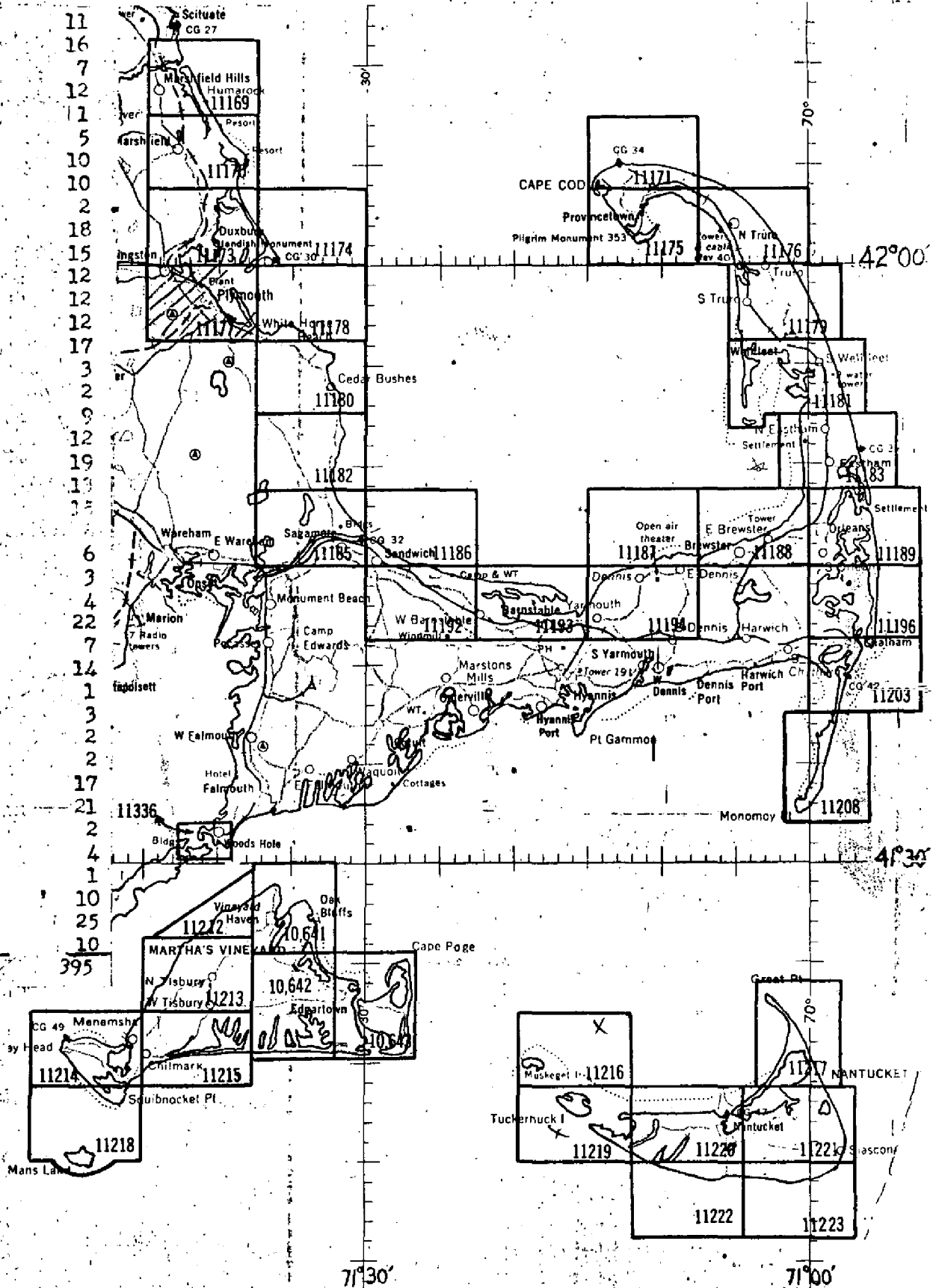
SHORELINE MAPPING PROJECT PH-116

CAPE COD, MASS.

(5)

Official Mileage for Cost Accounts
 Net Lin. Mi. Area
 Shoreline Sq. Mi.

11169	24	11
11170	12	16
11171	10	7
11172	26	12
11174	6	11
11175	18	5
11176	12	10
11177	14	10
11178	4	2
11179	15	18
11180	9	15
11181	31	12
11182	7	12
11183	23	12
11185	8	17
11186	6	3
11187	5	2
11188	13	9
11189	20	12
11192	5	19
11193	32	13
11194	7	13
11196	14	6
11203	24	3
11208	14	4
11212	12	22
11213	7	7
11214	22	14
11215	25	1
11216	5	3
11217	22	2
11218	9	2
11219	12	17
11220	24	21
11221	20	2
11222	6	4
11223	7	1
11336	7	10
10641	18	25
10642	12	10
10643	10	
TOTALS	607	395



(6)

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; IAG; LAH; CLUB(MGS)1934; LONG BEACH NORTH (MGS) 1934; REED TOWER; and PLYMOUTH UNIVERSALIST CHURCH SPIRE 1908; KINGSTON RIVET FACTORY CHIMNEY 1909.

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-11173(). *

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 5446 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.

Letter of Transmittal No. Ph-116-12, Data, Triangulation, Fixed Aids to Navigation, forwarded to Washington Office 11 September 1953.

Letter of Transmittal No. Ph-116-13, Low water photographs and other data, forwarded to Washington Office 11 September 1953.

Letter of Transmittal No. Ph-116-11, Data, Map T-11177, forwarded to Washington Office 11 September 1953.

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

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

MAP T. 11177

PROJECT NO. 6116

SCALE OF MAP 1:10,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR λ -COORDINATE		DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
			•	"	FORWARD	(BACK)		FORWARD	(BACK)	FORWARD	(BACK)
160 B, MGS, 1941	MGS p. 21	N.A. 1927	349	586.73	4,586.73	(413.27)		1398.0	(126.0)		
IAA, MGS	MGS p. 34	"	823	512.69	3,512.69	(1487.31)		1070.7	(453.3)		
KINGSTON, UNITARIAN CHURCH, 1886	p. 635	"	338	904.66	3,904.66	(1095.34)		1190.1	(333.9)		
PLYMOUTH HIGH SCHOOL DONE, 1908	p. 727	"	804	591.38	4,591.38	(408.62)		1399.5	(124.5)		
PLYMOUTH CORDAGE WORKS LARGE CHIMNEY 1908	GTZ G-4249 p. 244	"	41	59 36.102				1113.9	(737.3)		
PLYMOUTH METHODIST EPISCOPAL CHURCH, 1908	p. 727	"	70	43 59.185				1362.3	(18.7)		
PLYMOUTH NATIONAL MONUMENT, 1886	G-9238 p. 655	"	41	57 13.573				418.8	(1432.4)		
MICAJAH, 1941	p. 349	"	70	39 32.327				744.6	(637.4)		
PLYMOUTH COURTHOUSE CUFOLA, 1908	p. 728	"	41	58 49.596				1530.2	(321.0)		
PLYMOUTH CATHOLIC CHURCH, 1908	p. 726	"	70	41 12.956				298.3	(1083.0)		
29 AU, MGS, 1934	MGS p. 21	"	41	57 27.867				859.8	(991.4)		
53A, MGS, 1935	"	"	70	40 00.201				4.6	(1377.2)		
			41	57 36.114				1114.2	(737.0)		
			70	40 35.015				806.4	(575.4)		
			41	55 44.110				1361.9	(489.3)		
			70	42 10.653				245.5	(1137.0)		
			41	57 25.674				792.1	(1059.1)		
			70	40 02.121				48.8	(1333.0)		
			41	57 32.947				1016.5	(834.7)		
			70	40 11.064				254.8	(1127.0)		
			365	136.53	136.53	(4863.47)		41.6	(1482.4)		
			811	816.09	1,816.09	(3183.91)		553.5	(970.5)		
			364	663.76	4,663.76	(336.24)		1421.5	(102.5)		
			809	032.09	4,032.09	(967.91)		1229.0	(295.0)		

1 FT. = 3048006 METER

COMPUTED BY: B. Kurs

DATE 2/23/54

CHECKED BY: J. Steinberg

DATE 2/25/54

COMM. DC-57843

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

MAP T. 11177 PROJECT NO. 6116 SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR χ -COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
DUXBURY PIER LIGHT- HOUSE, 1877	GTZ G-4261 P. 270	N.A. 1927	41 59 14.361 70 38 56.647			443.1 (1408.1) 1304.0 (77.1)	
29 AW, MGS, 1934	MGS P. 21	"	360,005.51 817,552.21	05.51 (4994.49) 2,552.21 (2447.79)		1.7 (1522.3) 777.9 (746.1)	
29 AX, MGS, 1934	Comp. from 29 AY	"	357,032.73 822,606.54	2,032.73 (2967.27) 2,606.54 (2393.46)		619.6 (904.4) 794.5 (729.5)	
HOLMES MGS, 1934	GTZ G-4261 P. 270	"	41 58 23.925 70 40 38.026			738.2 (1113.0) 875.5 (506.0)	
1 AL, MGS	MGS P. 20	"	355,140.75 823,892.54	140.75 (4859.25) 3,892.54 (1107.46)		42.9 (1481.1) 1186.4 (337.6)	
1 AJ, MGS	"	"	354,782.51 822,484.73	4,782.51 (217.49) 2,484.73 (2515.27)		1457.7 (66.3) 757.3 (766.7)	
1 AK, MGS	"	"	354,140.69 823,045.20	4,140.69 (859.31) 3,045.20 (1954.80)		1262.1 (261.9) 928.2 (595.8)	
1 AM, MGS	"	"	353,252.69 824,763.72	3,252.69 (1747.31) 4,763.72 (236.28)		991.4 (532.6) 1452.0 (72.0)	
NORTH PLYMOUTH MGS	MGS P. 22	"	352,485.41 817,840.36	2,485.91 (2514.09) 2,840.36 (2159.64)		757.7 (766.3) 865.7 (658.3)	
MONK HILL, 1835	GTZ G-3156 P. 105	"	41 57 38.530 70 43 23.485			1188.8 (662.4) 540.9 (840.2)	
1 AN, MGS	MGS P. 20	"	350,935.27 825,567.11	935.27 (4064.73) 567.11 (4432.89)		285.1 (1238.9) 172.9 (1351.1)	
STATE PIER, MGS 1934	GTZ G-4261 P. 270	"	41 57 34.274 70 39 47.370			1057.5 (793.7) 1090.9 (290.9)	

1 FT. = 3048006 METER

COMPUTED BY: B. Kurs

DATE 2/23/54

CHECKED BY: J. Steinberg

DATE 2/24/54

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

MAP T-11177 PROJECT NO. 6116 SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ν -COORDINATE LONGITUDE OR x -COORDINATE		DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
					FORWARD	(BACK)		FORWARD	(BACK)	FORWARD	(BACK)
160 A, MGS, 1941	MGS p. 21	"	349,963.59	824,410.19	4,963.59	(036.41)		1512.9	(11.1)		
1 AP, MGS	MGS p. 20	"	350,015.48	826,615.55	015.48	(4984.52)		4.7	(1519.3)		
PLYMOUTH, SAMOSET TANK, MGS, 1938	GTZ G-4249 p. 245	"	41 57 08.065	70 40 53.926				248.8	(1602.4)		
LONG BEACH SOUTH MGS, 1934	GTZ G-4249 p. 243	"	41 56 51.869	70 37 48.712				1242.0	(139.9)		
160 H, MGS	MGS p. 22	"	344,624.81	816,894.58	4,624.81	(375.19)		1409.6	(114.4)		
PLYMOUTH TRINITARIAN CHURCH, SPIRE, 1908	p. 728	"	41 57 20.267	70 39 54.890				577.5	(946.5)		
PLYMOUTH FIRST CHURCH, SPIRE, 1908	p. 727	"	41 57 19.451	70 39 55.326				625.3	(1225.9)		
KINGSTON CHURCH SHORT SPIRE, 1908	p. 730	"	41 59 35.56	70 43 49.42				1264.2	(117.7)		
PLYMOUTH HARBOR SOUTH CHANNEL RANGE FRONT LT., 1953	Field Form 28B	"	41 57 21.619	70 39 44.706				600.1	(1251.1)		
PLYMOUTH HARBOR SOUTH CHANNEL RANGE REAR LT., 1953	"	"	41 57 20.975	70 39 45.632				1274.2	(107.6)		
PLYMOUTH HARBOR SPITTING KNIFE CHANNEL RANGE FRONT LT., 1953	"	"	41 57 20.975	70 39 45.632				1097.1	(754.0)		
PLYMOUTH HARBOR SPITTING KNIFE CHANNEL RANGE REAR LT., 1953	"	"	41 57 27.670	70 39 50.131				1137.5	(243.5)		
								667.0	(1184.2)		
								1029.6	(352.2)		
								647.1	(1204.0)		
								1051.0	(330.9)		
								909.3	(941.9)		
								1058.8	(323.0)		
								853.7	(997.5)		
								1154.5	(227.3)		

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

MAP T. 11177

PROJECT NO. 6116

SCALE OF MAP 1:10,000

SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ν -COORDINATE LONGITUDE OR λ -COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD	(BACK)		FORWARD	(BACK)	
PLYMOUTH BEACH PIERHEAD DAYBEACON, 1953	Field Comp 28B	N.A. 1927	41 58 45.918 70 39 13.461				1416.7 (434.5) 309.8 (1071.4)		
Sub. Pt. NORTH PLYMOUTH		"	Plotted Graphically						
Sub. Pt. 160A, MGS, 1941		"	348,989.13 824,468.33	4,989.13 (10.87) 4,468.33 (511.67)			1520.7 (3.3) 1361.9 (162.1)		
Sub. Pt. 29 AW, MGS, 1934		"	359,889.40 817,764.54	4,889.40 (110.60) 2,764.54 (2235.46)			1490.3 (33.7) 842.6 (681.4)		
Sub. Pt. 29 AU, MGS, 1934		"	41 59 70 43				1665.5 (185.7) 395.6 (985.3)		
Sub. Pt. 1 AK, MGS			Plotted Graphically						
Sub. Pt. 29 AX, MGS, 1934			Plotted Graphically						
Sub. Pt. MONK HILL, 1835		N.A. 1927	41 57 70 43				1191.6 (659.6) 513.1 (868.7)		
Sub. Pt. LONG BEACH SOUTH, MGS, 1934		"	41 56 70 37				1625.5 (225.7) 1129.6 (252.4)		
LONG BEACH NORTH MGS, REFERENCE (USE "Y"), 1934		"	41 58 70 38				85.2 (1766.0) 924.3 (457.3)		
HOLMES RM 2, MGS, 1934		"	41 58 70 40				770.5 (1080.7) 842.9 (538.6)		
STATE PIER, MGS, 1934 Sub. Pt.		"	41 57 70 39				1049.0 (802.2) 1103.6 (278.2)		

1 FT. = 3048006 METER

COMPUTED BY: J. Steinberg

DATE 24 February 1954

CHECKED BY: L. A. Senasack

DATE 26 February 1954

COMW-DC-57843

PROJECT NO. 6116

SCALE OF MAP 1:10,000

SCALE FACTOR

[illegible]

1 FT. = 3048006 METERS

COMPUTED BY:

J. Steinberg

DATE _____

2/24/54

CHECKED BY: **L. A. Senasack**

DATE:

2/26/54

COMM-DC-57843

COMPILATION REPORT

Survey No. T-11177

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 PMA 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 has been made with U.S.G.S. Quadrangle, Plymouth, Mass., scale 1:31,680, edition of 1939, reprinted 1951 with corrections.

47. 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
Jack Honick
Carto. Photo. Aid

Approved and Forwarded

E. H. Kirsch
E. H. Kirsch,
Capt. C&GS
Baltimore District Officer

PHOTOGRAMMETRIC OFFICE REVIEW

T. 11177

1. Projection and grids ☒ 2. Title ☒ 3. Manuscript numbers ☒ 4. Manuscript size ☒5a. Classification label ☒

CONTROL STATIONS

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 ☒
9. Plotting of sextant fixes ☒ 10. Photogrammetric plot report ☒ 11. Detail points ☒

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline ☒ 13. Low-water line ☒ 14. Rocks, shoals, etc. ☒ 15. Bridges ☒ 16. Aids to navigation ☒ 17. Landmarks ☒ 18. Other alongshore physical features ☒ 19. Other along-shore cultural features ☒

PHYSICAL FEATURES

20. Water features ☒ 21. Natural ground cover ☒ 22. Planetable contours ☒ 23. Stereoscopic instrument contours ☒ 24. Contours in general ☒ 25. Spot elevations ☒ 26. Other physical features ☒

CULTURAL FEATURES

27. Roads ☒ 28. Buildings ☒ 29. Railroads ☒ 30. Other cultural features ☒

BOUNDARIES

31. Boundary lines ☒ 32. Public land lines ☒

MISCELLANEOUS

33. Geographic names ☒ 34. Junctions ☒ 35. Legibility of the manuscript ☒ 36. Discrepancy overlay ☒ 37. Descriptive Report ☒ 38. Field inspection photographs ☒ 39. Forms ☒40. P. Glaser
ReviewerJoseph Steinberg
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:

Review Report

T-11177

November 1964

62. Comparison with Registered Topographic Surveys

455	1853	1:10,000
455a	1908	1:10,000
3625	1916	1:20,000

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

H-8165	1954	1:10,000
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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^{view} 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.

-2- (21)

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
S. G. Blankenbaker

Approved by:

Charles H. Hume
Chief, Photogrammetric Branch

Chief, Nautical Chart Division

L. F. Woodcock
Chief, Photogrammetry Division

TO BE CHARTED
TO BE CHARTED

STRIKE OUT ONE

NONFLOATING AIDS/OR LANDMARKS FOR CHARTS

Baltimore, Maryland

18 Aug. 1955

I recommend that the following objects which have ~~(4444/1111)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(4444/1111)~~ the charts indicated.

The positions given have been checked after listing by

R. Glaser

E. H. Kirsch
Chief of Party.

E. H. Kisch

[illegible]

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 SURVEYNONFLOATING AIDS ~~ON HANDMADE~~ FOR CHARTSTO BE CHARTED
~~TO BE DELETED~~

STRIKE OUT ONE

Baltimore, Maryland 18 August 1955

I recommend that the following objects which have ~~(1444/44)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(1444/44)~~ the charts indicated.

The positions given have been checked after listing by

R. Glaser

E. H. Kirsch
E. H. Kirsch

Chief of Party.

STATE	CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION				METHOD OF LOCATION AND SURVEY	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
				LATITUDE*	LONGITUDE*	D. M. METERS	D. M. METERS						
MASSACHUSETTS	DUXBURY PIER LIGHT	(Duxbury Pier Lighthouse, 1877)	<i>Light 1877</i> 1877	41 59	70 38	14.361	56.647	Triang.	1877	X	X		245 1208
	PLYMOUTH HARBOR CHANNEL LIGHT 4	(Plymouth Harbor Channel Lt. 4, 1953)	1953	41 58	70 39	14.072	1304.0	"	1953	X	X		245 1208
	PLYMOUTH HARBOR CHANNEL LIGHT 11	(Plymouth Harbor Channel Lt. 11, 1953)	1953	41 58	70 38	02.709	26.221	"	1953	X	X		245 1208
	PLYMOUTH HARBOR SOUTH CHANNEL RANGE FRONT LIGHT	(Plymouth Harbor South Channel Range Front Light 1953)	1953	41 57	70 39	21.619	43.100	Triang.	"	X	X		245 1208
	PLYMOUTH HARBOR SOUTH CHANNEL RANGE REAR LIGHT	(Plymouth Harbor South Channel Range Rear Light 1953)	1953	41 57	70 39	667.0	992.5	"	"	X	X		245 1208
	PLYMOUTH HARBOR SOUTH CHANNEL RANGE REAR LIGHT	(Plymouth Harbor South Channel Range Rear Light 1953)	1953	41 57	70 39	20.975	44.706	"	"	X	X		245 1208
	PLYMOUTH HARBOR SPLITTING KNIFE CHANNEL RANGE FRONT LIGHT	(Plymouth Harbor Splitting Knife Channel Range Front Light 1953)	1953	41 57	70 39	647.1	1029.6	"	"	X	X		245 1208
	PLYMOUTH HARBOR SPLITTING KNIFE CHANNEL RANGE REAR LIGHT	(Plymouth Harbor Splitting Knife Channel Range Rear Light 1953)	1953	41 57	70 39	20.975	45.632	"	"	X	X		245 1208
	PLYMOUTH HARBOR SPLITTING KNIFE CHANNEL RANGE REAR LIGHT	(Plymouth Harbor Splitting Knife Channel Range Rear Light 1953)	1953	41 57	70 39	647.1	1051.0	"	"	X	X		245 1208
	PLYMOUTH HARBOR SPLITTING KNIFE CHANNEL RANGE REAR LIGHT	(Plymouth Harbor Splitting Knife Channel Range Rear Light 1953)	1953	41 57	70 39	20.975	1051.0	"	"	X	X		245 1208
MASSACHUSETTS	PLYMOUTH HARBOR SPLITTING KNIFE CHANNEL RANGE FRONT LIGHT	(Plymouth Harbor Splitting Knife Channel Range Front Light 1953)	1953	41 57	70 39	22.172	45.974	"	"	X	X		245 1208
	PLYMOUTH HARBOR SPLITTING KNIFE CHANNEL RANGE REAR LIGHT	(Plymouth Harbor Splitting Knife Channel Range Rear Light 1953)	1953	41 57	70 39	909.3	1058.8	"	"	X	X		245 1208
	PLYMOUTH HARBOR SPLITTING KNIFE CHANNEL RANGE REAR LIGHT	(Plymouth Harbor Splitting Knife Channel Range Rear Light 1953)	1953	41 57	70 39	27.670	50.131	"	"	X	X		245 1208
	PLYMOUTH BEACH PIERHEAD DAYBEACON	(Plymouth Beach Pierhead Daybeacon, 1953)	1953	41 58	70 39	853.7	1154.5	"	"	X	X		245 1208
MASSACHUSETTS	PLYMOUTH BEACH PIERHEAD DAYBEACON	(Plymouth Beach Pierhead Daybeacon, 1953)	1953	41 58	70 39	45.918	13.461	"	"	X	X		245 1208
	PLYMOUTH BEACH PIERHEAD DAYBEACON	(Plymouth Beach Pierhead Daybeacon, 1953)	1953	41 58	70 39	1416.7	309.9	"	"	X	X		245 1208
	PLYMOUTH BEACH PIERHEAD DAYBEACON	(Plymouth Beach Pierhead Daybeacon, 1953)	1953	41 58	70 39	1416.7	309.9	"	"	X	X		245 1208
	PLYMOUTH BEACH PIERHEAD DAYBEACON	(Plymouth Beach Pierhead Daybeacon, 1953)	1953	41 58	70 39	1416.7	309.9	"	"	X	X		245 1208

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 IN DECIMETERS AND METERS

L 1047 (53)

M-2835-3

NOT BE DELETED

STRIKE OUT ONE

NON-FLUATING AIDS OR LANDMARKS FOR CHARTS

Baltimore, Maryland

18 August 1955

I recommend that the following objects which have ~~(M444/M44)~~ been inspected from seaward to determine their value as landmarks be ~~omitted from~~ the charts indicated.

The positions given have been checked after listing by

R. Glaser

E. H. Mersch
E. H. Mersch

Chief of Party.

[illegible]

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**

48. 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

(1) Jabez Corner *OK aju*
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

- (2) Saquish Head
Saquish Neck
Seaside Station *OK a/w*
Second Brook
Smelt Brook
Smelt Pond Road
Splitting Knife
Spoonier Pond
St. Joseph Cemetery
St. Joseph Church
St. Mary's Church
St. Peter's Church
Summer Street

The Nunmet
Town Branch
Town Brook

U. S. 44 (Hwy)

- Warren Cove
Watson Hill
(3) Wellingsley *OK a/w*
White Flat

Zion Church

- (1) Chart 245 and Plymouth quad. are in disagreement as to the placement of this name. *OK as on Chart 245 a/w*
(2) Name on Chart 245 only. Name should be verified. *OK as on Chart 245 a/w*
(3) Appears only on Chart 245. Placement and/or use should be verified. *Not verified. Placement OK on Ch. 245 a/w.*

*Names checked
and approved
6-9-65
A. J. Wraight*

NAUTICAL CHARTS BRANCH

SURVEY NO. T. 11177

Record of Application to Charts

[illegible]

M-2168-1

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.