11173

Diag. Cht. Nos. 1207-2 & 1208-2

: 3.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey	Shoreline
Field No. 6116	Office No
	LOCALITY
State Mass	achusetts
General locality	Massachusetts Bay
Locality Duxt	oury Beg
19	15 -19.53
E. H. Kirsch, E. H. Kirsch,	CHIEF OF PARTY Chief of Field Perty Baltimore District Officer
LIE	BRARY & ARCHIVĘS

January 2, 1966

сомм-вс 61300

T-11173

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 9 June 1953 (Supplement 1) Photogrammetry (IV)

9 June 1953 (Supplement 1)
9 July 1953 (Supplement 2)

11 July 1953 (Supplement 3) 10 July 1953 (Letter 70-1mh) 12 Feb. 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): NHW

Mean sea level except as follows:
. Elevations shown as (25) refer to mean high water

Elevations shown as (25) refer to mean high wate Elevations shown as (5) refer to sounding datum i.e., mean low water or mean lower low water

Reference Station (III): STANDISH MONUMENT, 1889

Lat.: 42° 00' 49.657"(1532.1 m) Long.: 70° 40' 57.720" (1328.1 m) Adjusted

Constinues.

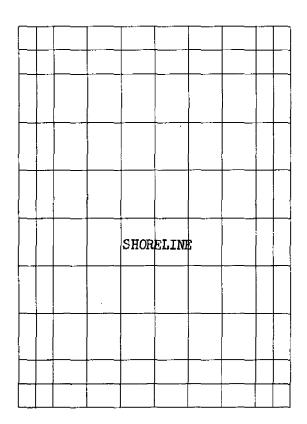
Plane Coordinates (IV): State: Mass. Zone: Mainland

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.

(2)



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

DATA RECORD

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

Planetable contouring by (II): Date:

Completion Surveys by (11): 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: 4 Nov. 1953

Projection and Grids checked by (IV): H. D. Wolfe Date: 4 Nov. 1953

Control plotted by (III): J. King Date: 24 Feb. 1954

Control checked by (III): L. A. Sensack Date: 2 Mar. 1954

Radial Plot de Siecos contre Date: 15 Mar. 1954

Economicstocky (III): F. M. Wisiecki

Planimetry Date:

Contours Date:

Stereoscopic Instrument compilation (III):

Manuscript delineated by (III): J. Honick Date: 14 June 1955

Photogrammetric Office Review by (III): R. Glaser Date: 26 June 1955

Elevations on Manuscript Date:

checked by (II) (III):



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

Number	Date	PHOTOGRAPHS (Time	Scale	Stage of Tide
DPT-2K-173 to 175	10/22/51	1238	1:10,000	4.2 above MLW
DPT-5K-116 to 119	7/26/52	•	1:10,000	-
DPT-5K-178 to 182	Ħ	1103	1:10,000	4.7 above MIW
J-428, 429	4/29/53	0705	1:10,000	1.8 " "
J-573	19	1332	n	0.4 below MIW
J-590, 591	71	1348	Ŋ	O-14 # #
J-598	111	1356	tt	0.L n n
J-619, 620, 622, 623	10	17103	19	0.3 " "
J-632, 633, 635, 636	Ħ	1415	R	0.3 " "
J-643, 644, 645	# -	1417	Ħ	0.1 4 4
J-653, 654	ff .	1427	•	0.1 above MLW

Tide (III) From predicted tide tables

Reference Station: Subordinate Station: Boston Plymouth

Subordinate Station:

Washington Office Review by (IV): S.G. Rankon boker

Date: 401, 1964

19

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

14 (approx.)

Shoreline (More than 200 meters to opposite shore) (III):

19 时。 Shoreline (Less than 200 meters to opposite shore) (III): 9 mi.

Control Leveling - Miles (II):

Land Area (Sq. Statute Miles) (III):

32 Number of Triangulation Stations searched for (II):

Number of BMs searched for (II):

Number of Recoverable Photo Stations established (III): 1

Number of Temporary Photo Hydro Stations established (III):

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

19

Recovered:

Recovered:

Identified: Identified:

Date:

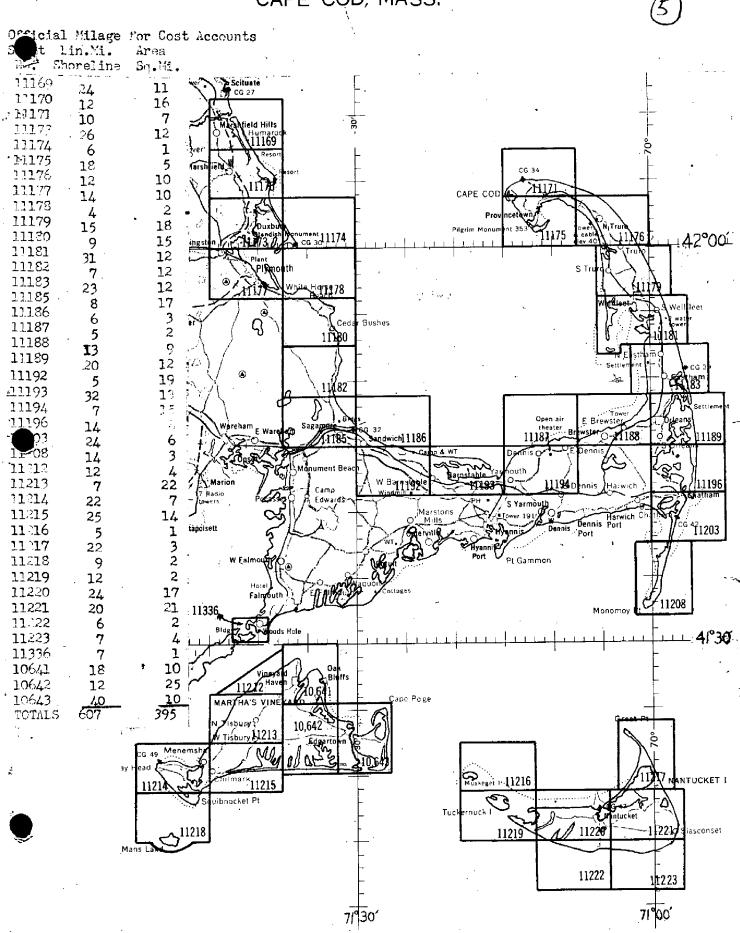
Date:

Date:

M-2618-12(4)

Form T-Page 4

Remarks:





Summary to Accompany Descriptive Reports T-11173 and T-11174

T-11173 and T-11174 are two of 40 similar surveys comprising project PM-116. Project coverage includes (1) Cape Cod Ray shoreline, (2) the entire east shore of Cape Cod, and (3) the islands of Marthas Vineyard and Mantucket. The subject maps cover Cape Cod Bay shoreline, north of Plymouth.

2. AREAL FIELD INSPECTION

This shoreline sheet is located along the west side of Massachusetts Bay and includes portions of Duxbury and Kingston Bays. The land area consists of a part of Duxbury Beach and the village of Duxbury.

Several items of historical interest are located within the area, namely; John Alden House, the site of Myles Standish house and the cemetery containing the graves of the Alden and Standish families.

Photography was of good quality and no difficulty was encountered in their interpretation in the field.

Field inspection is believed complete and was performed on the following photographs: DPT-5K-116 through DPT-5K-120; DPT-5K-178 through DPT-5K-180; DPT-2K-173 through DPT-2K-175; 53-J-428 and 53-J-429; and low water photographs as listed in paragraph 7.

3. HORIZONTAL CONTROL

All control by this Bureau was searched for and where recovered was identified.

The following third-order traverse stations, established by the Massachusetts Geodetic Survey, were recovered and identified: 29X, 29AA, 29AB, 29AC, 29AD, 29AE, 29AP, 29AQ, 29AS, 53C, 53F and 53H.

The following stations were reported lost: 29Y, 29Z, 29AF, 29AG, 29AH, 29AJ, 29AK, 29AL, 29AM, 29AN, 29AR, 53E and 53G.

4. VERTICAL CONTROL

Vertical control was established in vicinity of Kingston and Duxbury Bays solely for horizontalizing Kelsh Plotter models for mean low water line delineation. (See paragraph 7).

5. CONTOURS AND DRAINAGE

Contours do not apply.

All perennial drainage is plainly visible on photographs. No field inspection notes were found necessary.

WOODLAND COVER

Inapplicable.

SHORELINE AND ALONGSHORE FEATURES

The mean high water line has been indicated at intervals on the photographs. The mean high water line was inspected by driving or walking along the beach at approximate high water. Check measurements from identifiable points were taken at scattered intervals to check the inspection.

The low water line is to be delineated by sterepscopic instrument methods. Vertical control was established by spirit leveling from existing behch marks; from water surface using a tide staff in Plymouth Harbor connected to Plymouth Tidal Bench Marks; and, from a tide staff installed temporarily at Powder Point and connected to a nearby recovered bench mark.

Some areas of Duxbury and Kingston Bays were visited at or near time of low water. In these areas notations by symbol on photographs were made as to the approximate (along flats) and mean low water lines (along channels, natural or artificial).

This information is found on single lens contact prints, all 53-J-: 572, 574, 591, 592, 594, 596 thru 598, 626, 627, 629, 631, 646 thru 648, and 653.

The foreshore varies from steep to gradual and the distance between the mean high and mean low water lines varies accordingly.

The only bluffs of significance to the map are around Captains Hill and Standish Shores. These bluffs are approximately 35 feet high and should be symbolized on the map.

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

There are no submarine cables in the area.

There are no other shoreline structures in the area.

8. OFFSHORE FEATURES

Cripple Rocks have been identified on the photographs and their elevation above the water level and time of day have been noted on the photographs.

9. LANDMARKS AND AIDS TO NAVIGATION

All landmarks for nautical charts are adequately covered by Form 567.

There are no fixed aids to navigation in the area.

10. BOUNDARIES, MONUMENTS AND LINES

Inapplicable.

11. OTHER CONTROL

No other control was established.

12. OTHER INTERIOR FEATURES

All roads have been classified according to Paragraph 5441 of the Topographic Manual.

There are no bridges over navigable waters.

There are no airports or landing fields.

13. GEOGRAPHIC NAMES

No changes were noted during field work.

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-116-8, Data, Map T-11174(Supplemental Horizontal Control), forwarded to Washington Office 11 September 1953.

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

Letter of Transmittal No. Ph-116-7, Data, Map T-11173, forwarded to Washington Office 11 September 1953.

Submitted 9 September 1953

William M. Reynolds
Cartographic Survey Aid

Approved & Forwarded 11 September 1953

E. H. Kirsch Chief of Party PHOTOGRAMMETRIC FLCT REPORT Project No. Ph-116 Surveys Nos. T-11169 & T-11170, T-11173 & T-11174, T-11177 & T-11178

21. AREA COVERED

This radial plot covers the area of surveys T-11169 and T-11170, T-11173 and T-11174, also, T-11177 and T-11178. These are shoreline surveys along Cape Cod and Massachusetts: Bays, from Manomet Point northward through Plymouth Harbor, Plymouth and Duxbury Bays to Scituate Harbor.

22. METHOD - RADIAL PLOT

Map Manuscripts:

Vinylite sheets with polyconic projections in black and Massachusetts Mainland Grids in red, at a scale of 1:10,000 were furnished by the Washington office.

All control points and most of the substitute points were plotted using the beam compass and meter bar method, a few substitute points were plotted graphically.

A sketch showing the layout of surveys, distribution of control and photograph centers, and a list of control stations are attached to this report.

Photographs:

Single lens photographs, taken by Robinson Aerial Surveys for Production and Marketing Administration, 1:20,000 contact scale and ratioed to 1:10,000, were used in this radial plot. Seventy-one (71) photographs were used, numbered as follows:

2K-64 through 2K-66 2K-119 through 2K-121 2K-166 through 2K-179 2K-182 through 2K-185 2K-187 and 2K-188 5K-106 through 5K-120 5K-162 through 5K-167 5K-170 through 5K-188 7K-80 through 7K-84

No office photograph was furnished for 5K-182; the field photograph was used for this plot.

Templets:

Vinylite templets were made from all photographs using a master templet to correct errors due to paper distortion, except photograph 5K-182 which had no fiduicial marks.

22. METHOD - RADIAL PLOT (cont'd)

Closure and adjustment to control:

Vinylite sheets with 5,000 foot grids were used as base sheets. All identified control was transferred to the base sheets by matching common grid lines.

The radial plot was done in three sections. The first priority was for surveys T-11173 and T-11174. The plot was started with the middle flight in survey T-11173 and tied into control into the middle of surveys T-11170 and T-11177. The flight to the west was then laid, followed by the two remaining flights to the east, extending the plot into survey T-11174. After this section of the plot was finished it was extended northward through surveys T-11170 and T-11169. These two sections of the plot were then picked up, base sheets changed and the plot extended south and eastward to tie into control in the middle of survey T-11180. Four control stations, namely 29C, MGS, 1934; 29AU, MGS, 1934; PLYMOUTH STONE WATER TANK, 1908 and PLYMOUTH GRAY TANK, 1908 could not be held in this radial plot.

Transfer of Foints:

The position of all pass points, photo points and photo centers were pricked directly on the map manuscript by superimposating the manuscript on the completed plot and matching common grid lines.

23. ADEQUACY OF CONTROL

The density and distribution of control was adequate.

While pricking control station PLYMOUTH STONE WATER TANK, 1908 it was believed to be misidentified. This station did not hold in the radial plot. The tall odd-shaped structure close by was pricked in the office. At the same time this station was repricked - control station FLYMOUTH GREY HOUSE LARGE CHIMNEY, 1908 was pricked from its description; both stations are near each other and were held in the plot.

The following control could not be held in the radial plot:

29C, MGS, 1934 - The radially plotted position falls approximately 0.5 mm to the SE of the plotted position. The description indicates it was pricked, in the field, too far from the railroad and bulkhead.

Sub. Pt. 29AU, MGS, 1934 - The radially plotted position falls approximately 0.6 mm to the SE of the plotted position. The only apparent reason for this discrepancy is the year difference in the point of grass between photography and field work.

PLYMOUTH GRAY TANK, 1908 - The radially plotted position falls approximately 400 maters to the NW of the plotted position. There was no field inspection of a tank in the approximate locality that this tank should be. It is believed that this station may now be destroyed. Since there was sufficient other control in the abovementioned areas, no further investigation was made.

24. SUPPLEMENTAL DATA

No graphic control surveys were used in this radial plot.

25. PHOTOGRAPHY

The photographic coverage and definition of the photographs were adequate.

Respectfully submitted 29 March 1954

Leroy A. Senasack Carto. Photo. Aid

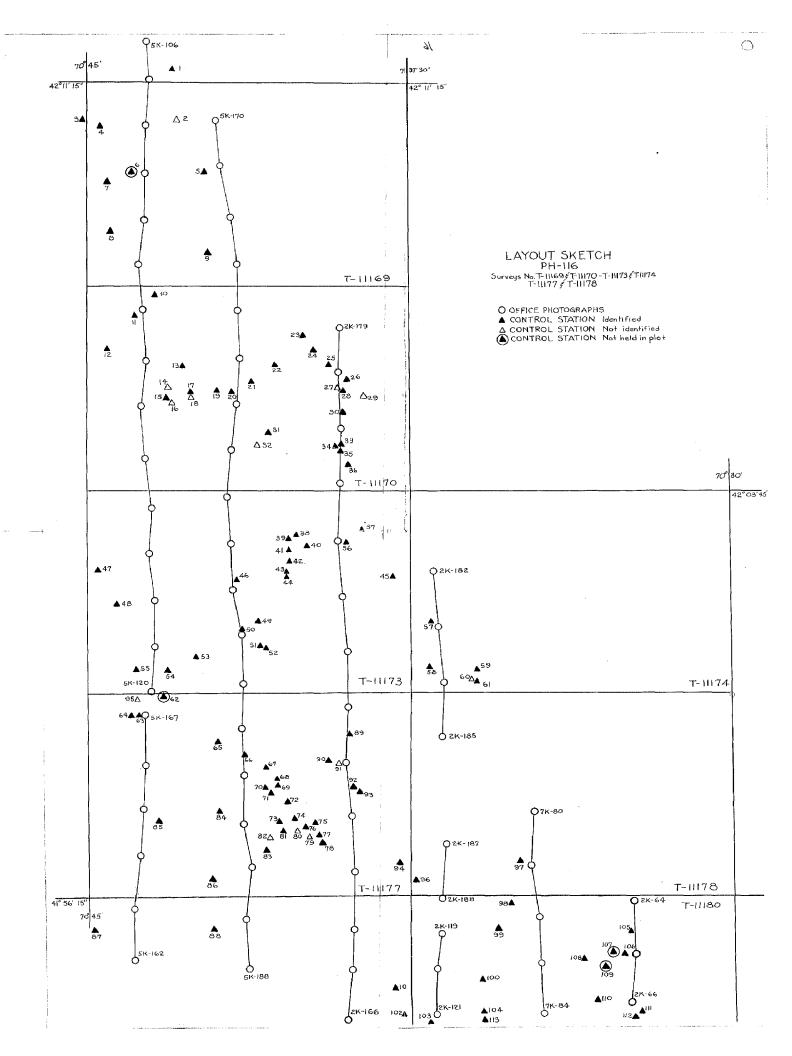
No.	Station	<u>Identification</u>
1.	SCITUATE SECOND CLIFF TOWER (TOWER USC&GS), MGS, 1908	Direct
2.	THIRD CLIFF SCITUATE O.P., 1940	None
3.	M3A 22, MGS, 1934	Direct
4.	29B, MGS, 1934	Sub. Pt.
5.	FOURTH CLIFF (USE), 1943	Direct
6.	290, MGS, 1934	Direct
7.	STODDARD'S BARN CUPOLA, 1885	Direct
8.	NORTH MARSHFIELD UNITARIAN CHURCH SPIRE, MGS, 1849	Direct
9.	HOLLY HILL, 1943	Sub. Pt.
10.	MARS, MGS, 1938	Sub. Pt.
11.	HIGHLANDS, MGS, 1938	Direct
12.	72 L, MGS	Sub. Pt.
13.	72M, MGS	Direct
14.	72K, MGS	None
15.		Direct
16.	PUDDING, MGS, 1938	None .
17.	MARSHFIELD CONGREGATIONAL CHURCH, 1908	Direct
18.	72J, MGS	N one
19.	72 G, MGS	Sub. Pt.
20.	72F, MGS	Sub. Pt.
21.	72E, MGS	Sub. Pt.
22.	72C, MGS	Sub. Pt.
23.	29J, MGS, 1934	Direct
24.	72A, MGS, 1936	Sub. Pt.
25.	29K, MGS, 1934	Direct
26.	BRANT ROCK BLACK CHURCH SPIRE, 1908	Direct
27.	BRANT, MGS, 1938	None
28.	BRANT TANK, MGS, 1938	Direct
29.	B.R. 1 (MARSHFIELD TOWN SURVEY), 1940	None
30•	29Q, MGS, 1934	Direct
31.	WEBSTER'S (HON. DANIEL) HOUSE WEST CHIMNEY, 1849	Direct
32•	BLACK MOUNT, MGS, 1935	N one
33•	GREEN HARBOR WOU RADIO TOWER, NORTH EAST, 1938	Direct
34.	GREEN HARBOR, WOU RADIO TOWER, WEST, 1938	Direct
35•	GREEN HARBOR, WOU TOWER, SOUTH EAST, 1938	Direct
36.	29U, MGS, 1934	Sub. It.
37•	DUXY, MGS, 1938	Sub. Ft.
38.	29AB, MGS, 1934	Sub. Ft.
39•	29AC, MCS, 1934	Sub. Pt.
1:0.	29AA, MGS, 1934	Sub. Pt.
41.	29AD, MGS, 1934	Direct
42.	29AE, MGS, 1934	Sub. Pt.
43.	DUXBURY TALL CHURCH SPIRE, 1908	Direct
मिर्गे •	DUXBURY SQUARE CHURCH SPIRE, 1908	Direct
45.	FIX NO. 1, 1953	Direct
46.	SOUTH DUXBURY UNITARIAN CHURCH SPIRE, MGS, 1888	Direct
47.	53H, MGS, 1935	Sub. Pt.
48.	53F, MCS, 1935.	Sub. Pt.

LIST OF CONTROL (cont'd)

No.	Station	[dentifi	cation
49.	29AP, MGS, 1934	D	irect
50.	29AQ, MGS, 1934-	S	ub. pt.
51.	DUXBURY STANDFIFE, MGS, 1938	D	irect
52.	STANDISH MONUMENT, 1889	D	irect
53•	29AS, MGS, 1934	S	ub. Pt.
54.	DUXBURY CONCRETE TOWER, 1908	D	irect
	53C, MGS, 1935	S	ub. Pt.
	29X, MGS, 1934		irect
57•	FIX NO. 2, 1953		ub. Ft.
58.	FIX NO. 3, 1953		ub. Pt.
59•	DURNET DATUM, 1940		irect
60.	PLYMOUTH, MGS, 1938		one
61.	PLYMOUTH (GURNET) LIGHTHOUSE, MGS, 1938		irect
62.	29AU, MGS, 1934		ub. Ft.
63.	KINGSTON CHURCH SHORT SPIRE, 1908		irect
64.	KINGSTON UNITARIAN CHURCH, 1886		irect
65.	29AU, MGS		ub. Pt.
66 .	PLYMOUTH CORDAGE WORKS LARGE CHIMNEY, 1908		irect ub. Pt.
67. 68.	29AX, MGS HOLMES, MGS, 1934		ub. Pt.
69.	1 AL, MGS		irect
70.	1 AJ, MGS		rect
71.	1 AK, MGS		ub. Pt.
78.	1 AM, MGS		irect
73.	PLYMOUTH NATIONAL MONUMENT, 1886		irect
74.	PLYMOUTH CATHOLIC CHURCH, 1908		one
• •	1 AN, MGS	Ď	irect
75.	STATE PIER, MGS, 1934	S	ub. Ft.
76.	PLYMOUTH METHODIST EPISCOPAL CHURCH, 1908	D	irect
	1 AP, MGS	N	one
77+	PLYMOUTH HARBOR SOUTH CHANNEL RANGE FRONT LT., 1953		irect
	PLYMOUTH HARBOR SOUTH CHANNEL RANGE REAR LT., 1953		irect
	PLYMOUTH HARBOR SPLITTING KNIFE CHANNEL RANGE FRONT LT.		
	FLYMOUTH HARBOR SPLITTING KNIFE CHANNEL RANGE REAR LT.,		
78.	PLYMOUTH HIGH SCHOOL DOME, 1908		irect
79•	PLYMOUTH TRINITARIAN CHURCH SPIRE, 1908		one
80.	PLYMOUTH FIRST CHURCH SPIRE, 1908		one
81.	PLYMOUTH COURTHOUSE CUPOLA, 1908- 160 A, MGS, 1941		one ub. Ft.
82.	160 B, MGS, 1941		one
83.	PLYMOUTH SAMOSET TANK, MGS, 1938		irect
84.	NORTH PLYMOUTH, MGS.		ub. Pt.
85.	MONK HILL, MGS, 1835		ub. Ft.
86.	160 H, MGS		irect
87.	1 AA, MGS		ub. Pt.
.88	MICAJAH, 1941	D	irect
89.	DUXBURY FIER LIGHTHOUSE, 1877	D	irect
90+	PLYMOUTH HARBOR CHANNEL LT. 4, 1953	r	irect
91.	PLYMOUTH BEACH PIERHEAD DAYBEACON, 1953		one
92.	PLYMOUTH HARBOR CHANNEL LT. 11, 1953		irect
93•	LONG BEACH NORTH, MGS, 1934 (REF. MK, USE "Y")		irect
94•	LONG BEACH SOUTH, MGS, 1934		ub. Pt.
95•	53 A, MGS, 1935	N	one

LIST OF CONTROL (Cont'd)

No.	Station	Identification
96.	M3BA, MGS, 1936	Sub. Pt.
97•	PLYMOUTH ROCKY POINT HOUSE CHIMNEY, 1908	Direct
98.	M3BD, MGS, 1936	Sub. Pt.
99•	MANOMET, 1835	Sub. Pt.
100.	SYM A, MGS	Sub. Pt.
101.	JENX, MGS, 1941	Sub. Pt.
102.	160 AD, MGS	Sub. Pt.
103.	160 AH, MGS	Sub. Pt.
104.	SYMINGTON, MGS, 1941	Sub. Pt.
105.	GUARD (MANOMET PT. COAST GUARD), 1940	Direct
106.	PLYMOUTH GREY HOUSE LARGE CHIMNEY, 1908	Direct, in office
107.	PLYMOUTH STONE WATER TANK, 1908	Direct
108.	M3BF, MGS, 1936	Sub. Pt.
109.	PLYMOUTH GRAY TANK, 1908	Direct
110.	M3BJ, MGS, 1936.	Sub. Pt.
111.	INDIA, 1940	Direct
112.	INDIAN HILL 2, MOS, 1941	Sub. Pt.
113.	160 AR, MGS	Sub. Pt.



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*F*ОЯМ **164** (4-23-54)

U.S. DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORT

COAST AND GEODETIC SURVEY

MAP T. 11173 PROJECT NO. 6116 SCALE OF MAP 1s,10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINAYE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	N.A. 1927 - DATUM DISTANCE CORRECTION IN METERS FORWARD REACH FORWARD FORWARD	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
DUXY, MGS, 1938	072 G-1219 P- 242	N.A. 1927	42 02 59.653 70 38 39.729		913.6 (166.2)	
29AB, MGS, 1934	MGS P. 11	ŧ	383,162.06	3,162.06 (1,837.94)	963.8 (560.2) 154.h (1369.6)	
FIX No. 1, 1953	Field Comp.	=	142 02 08,210 70 37 57,623		1325.4 (54.7)	
29AC, MCS, 1934	MGS p. 11	ŧ	43	2,854.15 (2,145.85) 4,746.41 (253.59)		
29%, MGS, 1934	MGS p. 11	#	382,492,55	2,492,55 (2,507,45)	759.7 (764.3) 85.6 (1438.4)	
29AD, MGS, 1934	MGS P•12	·#	381,550.60			
29AA, MCB, 1934	MGS Ltq	F	381,874,31	a] a	5	
29AE, MCS, 1934	MGS P+ 12	#	380,148.15			
53H, MCS, 1935	MGS P• 14	#	379,164,58	- -		- 1
SOUTH DUXBURY UNI- TARIAN CHURCH SPIRE, 1888	GT2 G-1219 P-244	Ŧ	42 02 06.055 70 41 33.524		186.8 (1664.4) 771.1 (699.0)	7 -
53F, MGS, 1935	MGS p. 14	=	375,387,444 807,023,03	387.44 (4,612.56) 2,023.03 (2,976.97)	118.1 (1405.9) 616.6 (907.4)	
29 AQ, MCS, 1934	MG6 p. 13	¥	372,637.28	2,637,28 (2,362,72) 8,06 (1,991,91)		
						COMM- DC- 5784

1 FT.=.3048006 NETER

DATE 2/17/54

CHECKED BY L. A. Senasack

DATE 23 February 1954

FORM **164** (4-23-54)

DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

MAP T. 11173 PROJECT NO. 6		PROJEC	ST NO. 61	116	SCALE OF MAP	1,10,000	SCALE FACTOR	CTOR
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DRDINATE ORDINATE	DISTÂNCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN WETERS FORWARD (BACK)	FACTOR DISTANCE LINE FROM GRID OR PROJECTION LINE IN METERS K) FORWARD (BACK)
DUXBURY STANDFIPE, MGS, 1938	GTZ G-4249 D-212	N.A. 1927	70 11 0	52,306			1613.8 (237.4b)	(7)
STANDISH, MONUMENT 1889	p. 634	l	99	49.657				(1.
294S, MGS, 1,934	MGS p. 13	=	369,463.2		4,463.20 (536.80) 200.15 (4799.85)			(9.
53c, MGS, 1935	MGS p. 13	T	367,993.03		l			(1) (h:
29 AP, MGS, 1934	MG6 p• 13	#	373,833,75 821,755,41	10				(5,
DOXBURY CONCRETE TOWER, 1908	po. 731	#	142 00 2 70 43 0	24,56 08,35				(¶°
DUXBURY SQUARE CHURCH SPIRE, 1908	р. 734	E		10.596 24.628				6)
DUXBURY TALL CHURCH SPIRE, 1908	p. 733	E .	05 10	11.91				(7.
								- 18
dispersion of the second of th								*
1 FT.=,3048006 METER			1					COMM- DC- 57843

1 FT. = 3048006 METER COMPUTED BY: B. Kurs

2/11/54

DATE

CHECKED BY L. A. Senasack

23 February 1954 DATE

FORM **164** (4-23-54)

U.S. DEPARTMENT OF COMMERCE DESCRIPTIVE REPORT

COAST AND GEODETIC SURVEY

MAP T. 11173 PROJECT NO. 6116 SCALE OF MAP 1:10,000 SCALE FACTOR

Sub. Pt. 53F,MGS, 1935 Sub. Pt. 53C, MGS, 1935 Sub. Pt.		LATITUDE OR V-COORDINATE	DISTANCE FROM GRID IN FEET.		DATUM FROM GEN	DISTANCE FROM GRID OR PROJECTION LINE IN METERS	FROM GRID OR PROJECTION LINE
Sub. Pt. 3F,MGS, 1935 Sub. Pt. 3C, MGS, 1935 Sub. Pt.)EX)		FORWARD	(BACK)	FORWARD	ARD (BACK)	FORWARD (BACK)
Sub. Pt. 30, MCS, 1935 . Sub. Pt.	N.A.	375,335.15	335.15	(4,664,85)	102.2	.2 (1421.8)	
Sub. Pt. 30, MGS, 1935	4761	807,049,04	2049.04	(2,950,96)	624.5	.5 (899.5)	
Sub. Pt.		368,120.18	3120,18	(1,879,82)	951.0	•0 (573.0)	
Sub. Pt.	:	808,873,46	3873.46	(1,126,54)	1180.6)	.6) (3h3.h)	
7 (0)		379,293.37	4293.37	(706.63)	1308.6	.6 (215 ₀ h)	
5H, MCG, 1935	=	804,954.05	4954.05	(45.95)	1510.0	· \	
Sub. Pt.	•	369, 476,69	1416.69	(523.31)	1364.5	.5 (159.5)	
747 (W) (W)	•	815,158,27	158.27	(4,841,73)	718.2	•2 (1475 _• 8)	
Sube Pt.	8		A LIVE TO BE SEEN LONG TO THE SECOND TO THE	A			
78A, MW, 1734	•		FLOITED OF	THI CALL I			
Sub. Pt.	E	383,161.60	3161,60	(1,838,40)	963•7	.7 (560.3)	
		825,675,57	675.57	Ch. 32h. h3)	205.9	.9 (1318.1)	
Sub. Pt.		382,815.97	2815.97	(2,184,03)	858.3	.3 (665.7)	
67AU 11UD 1734		824,734,82	4734.82	(265.18)	1143.2		•
Sub. Pt.	*	380,139,75	139.75	(4.860.25)	12.6	,6 (1481.4)	,
*//- (mil (mil)		825,142,87	142,87	(4,857,13)	13.5	. 5 (1µ80.5)	- 1
Sub. Pt.	5	75 05			1787.7		9 =
0415 that 1	:	70 38			884.1	.1 (495.7)	
Sub. Pt.	5	372,613.65	2613.65	(2,386,35)	796.6	•6 (727•h)	
		820,028,12	28.12	(4,971,88)	80	8.6 (1515.4)	:
1 FT = .3048006 METER							COMM- DC- 57840

31. DELINEATION

Graphic methods were used to delineate this manuscript. 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.

None of the swamp and marsh areas in the interior were field inspected. These areas were delineated directly from the Duxbury Quadrangle, by use of the vertical projector, except in the areas where office interpretation of the photographs showed definite changes.

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

The delineation was done on a worksheet and transferred to the manuscript by scribing methods. The stick-up of names, notes and symbols was done on a separate vinylite sheet.

32. CONTROL

Refer to Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

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

The revision data for the Duxbury quadrangle submitted by the field party was used for additional field inspection.

34. CONTOURS AND DRAINAGE

Contours: Inapplicable.

Drainage: A few small interior streams were not indicated by field inspection. The revision data indicated no changes so the streams were projected from the quadrangle and delineated 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

. 3

The limits of the channel named Cowyard could not be delineated from the photographs.

37. LANDMARKS AND AIDS

Forms 567 have been submitted for four landmarks to be charted and two landmarks recommended for deletion.

38. CONTROL FOR FUTURE SURVEYS

Form 524 for topographic station EARL, 1953 has been prepared.

No photo-hydro stations were 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-11170 to the north, T-11174 to the east and T-11177 to the south. No contemporary survey to the west.

40. HORIZONTAL AND VERTICAL ACCURACY

Refer to Photogrammetric Plot Report.

41. to 45.

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with U.S.G.S. quadrangle, Duxbury, Mass., scale 1:31,680, edition of 1941, revised in 1947.

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.

47. COMPARISON WITH NAUTICAL CHARTS (contid)

Items to be applied to Nautical Charts immediately: None.

Items to be carried forward: None.

Respectfully submitted l4 June 1955

Jack Honick,

Carto. Photo. Aid

Approved and forwarded

or E. H. Kirsch, Capt. C&GS

Baltimore District Officer

48. GEOGRAPHIC NAMES LIST

* Bluefish River (Chart Spelling).

** Eagle Nest Point (Chart Spelling).

Abrams Hill Alden Island Alden St Allens Lane

Back River
Baileys Corner
Bay Road
Blackwater Pond
#Blue Fish River
Bourne Wharf River
Bow St

Camp Chappa Challa
Captains Hill
Chestnut St
Church St
Clarks Island
Columbus Ave
Cowyard
Cox Corner
Crescent St
Cripple Rocks

Dead Swamp
Depot St
Duck Hill River
Dug Way
Duxbury
Duxbury Bay
Duxbury Beach
Duxbury Elementary School
Duxbury Free Library
Duxbury High School
Duxbury Marsh
Duxbury Yacht Club

**Eagles Nest Point Elm St Enterprise St

> Grave of Miles Standish Great Wood Island Great Wood Island River

Halls Brook
Hardin Hill
Harrison St
High Pines
Holy Family Church

48. GEOGRAPHIC NAMES LIST (contad)

Island Creek (Creek name)
Island Creek (Town name)
Island Creek Pond
John Alden House

Kingston Bay

n.

Little Wood Island Little Wood Island River Long Point

Marshall St
Massachusetts Bay
Massachusetts 3 (Hwy)
Massachusetts 3A (Hwy)
Massachusetts 14 (Hwy)
Massachusetts 139 (Hwy)
Mayflower Cemetery
Mayflower St
Mile Brook
Millbrook
Mill Pond
Miramar
Myles Standish State Park

National Sailors Home New York - New Haven & Harford R. R. North Hill North Hill Marsh

Oak St Old Burying Ground Grave of Myles Standish

Park St Partridge Rd. Pine Hill Powder Point Powder Point Ave.

Rocky Nook Point

Saquish Neck
School St
Soule Ave
South Duxbury
South Station St
Standish Shore
Standish St
St Francis Xavier Seminary
St George St
St Margarets Convent
Summer St
Surplus St

48. GEOGRAPHIC NAMES LIST (cont'd)

Tarkiln Rd
The Nook
Tinkertown
Toby Garden St
Tremont St
Tussock Brook

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Washington St West Brook West St Winthrop St Names 2115 65 M 2nd 5-1,50 M 20

PHOTOGRAMMETRIC OFFICE REVIEW

T- ///73

5. Horizontal control stations of third-order or high than third-order accuracy (topographic stations) = 9- Plotting of sextant fixes10. Photographic stations10. Photographic sextant fixes10. Photographic sextant fixes	7. Pho	6. to hydro state aport	Recoverable l	.8. Bench-marks
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12. Shoreline13. Low-water line	Nautical Chart (
		Data)		
	14. Rocks, s	shoals, etc	✓15. E	Bridges16.
to navigetion 17. Landmarks	18. Other along	shore physic	al features	✓ 19. Other al
shore cultural features				
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20. Water features 21. Natural ground	cover	. 22: Planete	ble contours_	-23. Stereor
Instrument contours 24. Contours in -				
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33. Geographic names34. Junctions	35. Leg	jibility of the	manuscript _	36 : Discre j
everlay 37. Descriptive Report				
40. K. Slave		100 E	sh to	tembera
Reviewer	-	Spir	ervisor, Review	Section or Unit
41. Remarks (see attached sheet)		V		\mathcal{U}
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FIELD COMPLETION ADDITIO	INS AND CORRI	ECTIONS TO	THE MANUS	CRIPT
42. Additions and corrections furnished by the fie				
manuscript is now complete except as noted und		Jaivey Have	pecii applied	to the manuscript.
Compiler			Superv	isor
43. Remarks:				M-26

Review Report

T - 11173

November 1964

62. Comparison with Registered Topographic Surveys

3625

1:20,000 scale

1916

The prior survey includes some rock information not shown on T-11173. These rocks were carried forward to H-8164 and H-8165 (dated 1954, 1955 - refer to side heading 64) from H-3906, dated 1917. T-3625 and H-3906 are contemporary surveys.

Except for the additional rock information shown on T-3625, the subject survey, T-11173, supersedes the prior topographic survey for charting purposes in the common area.

63. Comparison with Maps of Other Agencies

USGS quadrangle, Duxbury 1:24,000 scale 1961

No significant differences were noted between the quadrangle and planimetric survey.

64. Comparison with Contemporary Hydrographic Surveys

H-8164 1:10,000 scale 1954-55 H-8165 1:10,000 scale 1954-55

T-11173 provided the shoreline for the hydrographic surveys. In addition to the rocks transferred to H-8164 and H-8165 from T-11173, the hydrographic surveys smooth sheets show a few additional rocks. These rocks were located either by the subject hydrographic surveys or by H-3906, dated 1917. Except for this difference in rock information, T-11173 is in agreement with the hydrographic surveys.

65. Comparison with Nautical Charts

245 1:20,000 Revised 4-1-63

T-11173 was applied to the chart in 1956. No changes effecting the chart were made during the final review of T-11173.

66. Adequacy of Results and Future Surveys

This map meets the National Map Accuracy standards and Bureau requirements.

Reviewed by:

S. G. Blankenbaker

Approved, by:

Chief, Photogrammetric Branch

Chief, Nautical Chart Division

Chief, Photogrammetry Division

Form: 567 April 1945

PF COMMERCE DEPARTMENT

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ATTATA TO NOT AND GEODETIC SURVEY

NOWNING MANAGO / ALDS / DIV LANDMARKS FOR CHARTS

TO BE CHARTED STRIKE OUT ONE

Plymouth, Mass.

1953 23 Oct.

I recommend that the following objects which have http://hbb been inspected from seaward to determine their value as landmarks be charted on (dd/kd///dd/) the charts indicated.

The positions given have been checked after listing by Isaiah I. Fitzgerald

Lorin F. Woodcock

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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.

	•
56.7	1945
Form	April

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DF COMMERCE DEPARTMENT

Annuage of the COAST AND GEODETIC SURVEY

FYNDAMINION FOR CHARTS FOR CHARTS

10/ 中国/ 白色中的中国 STRIKE OUT ONE TO BE DELETED

Plymouth, Massachusetts

. 19_53

23 October

I recommend that the following objects which have Matel 1611 been inspected from seaward to determine their value as landmarks be

The positions given have been checked after listing by

Lorin F. Woodcock

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STATE	MASSACHISETTS				POSITION			METHOD			18AH :	
			LATE	LATITUDE*	LON	LONGITUDE		LOCATION	DATE OF		CHARTS	RTS
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STANDPIPE	(Low and obscured)		12 00.9		70 h.o		M.A.	Triang.	1938	H	245	
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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.

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

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 Revi.

CHART	DATE	CARTOGRAPHER	REMARKS
1208	3-74-73	DLPallar	Full After Verification Review Inspection Signed Via
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			Considered Adequately applied
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			APP'D.
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FORM C&GS-8352 SUPERSEDES ALL EDITIONS OF FORM C&GS-975

U\$COMM-DC 8558-P63