

TP-00170

TP-00170

NOAA FORM 76-35

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline
Job No. PH-7004 Map No. TP-00170
Classification No. Edition No.
Field Edited Map

LOCALITY

State Massachusetts
General Locality Race Point To Chatham
Locality Nauset Harbor

19 70 TO 1972
Alfred C. Holmes, Director, AMC

REGISTRY IN ARCHIVES

DATE

NOAA FORM 76-36A <small>(1-72)</small> U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	SURVEY TP. <u>00170</u> MAP EDITION NO. () MAP CLASS JOB PH. <u>7004</u>
DESCRIPTIVE REPORT - DATA RECORD	LAST PRECEDING MAP EDITION	
PHOTOGRAMMETRIC OFFICE Atlantic Marine Center-Norfolk, VA	TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
OFFICER-IN-CHARGE Melvin J. Umbach, CDR, NOAA	JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__	

I. INSTRUCTIONS DATED	
1. OFFICE	2. FIELD
December 3, 1970 March 5, 1971	August 12, 1970

II. DATUMS					
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN	OTHER (Specify)				
2. VERTICAL: <ul style="list-style-type: none"> <input checked="" type="checkbox"/> MEAN HIGH-WATER <input checked="" type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL 	OTHER (Specify)				
3. MAP PROJECTION Polyconic	4. GRID(S) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">STATE MASS</td> <td style="width:50%;">ZONE Mainland</td> </tr> <tr> <td>STATE</td> <td>ZONE</td> </tr> </table>	STATE MASS	ZONE Mainland	STATE	ZONE
STATE MASS	ZONE Mainland				
STATE	ZONE				
5. SCALE 1:10,000	STATE ZONE				

III. HISTORY OF OFFICE OPERATIONS		
OPERATIONS	NAME	DATE
1. AEROTRIANGULATION BY METHOD: Stereoplanigraph LANDMARKS AND AIDS BY	J.D. Perrow, Jr.	Feb. 1971
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY	P. Dempsey "	Mar. 5/71
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: Wild B-8 SCALE: 1:15,000 CONTOURS BY	L.O. Meterer, Jr. ^{A.L.} Shands R. White Inapplicable "	Apr. 28/71 " "
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY METHOD: Wild B-8 CONTOURS BY SCALE: 1:10,000 CHECKED BY HYDRO SUPPORT DATA BY	B. Wilson & A.L. Shands A.L. Shands Inapplicable "	May 10/71 May 12/71
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	L.O. Meterer - B. Wilson A.L. Shands	Apr. 15/71 May 11/71
6. APPLICATION OF FIELD EDIT DATA BY	A.L. Shands	May 12/71
7. COMPILATION SECTION REVIEW BY	Susan Kumer R.R. White	Dec. 4/72 Dec. 7/72
8. FINAL REVIEW BY	S. Kumer	Aug. 3/73
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	C. Bishop	Aug. 1973
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	Blankenbaker	Nov. 1975
11. MAP REGISTERED - COASTAL SURVEY SECTION BY	R. T. CATDR	JULY 1975

COMPILATION SOURCES TP-00170

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "L"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR <input checked="" type="checkbox"/> (P) PANCHROMATIC (I) INFRARED		ZONE Atlantic <input checked="" type="checkbox"/> STANDARD	
<input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				MERIDIAN 75th <input type="checkbox"/> DAYLIGHT	

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
70-L-(c)-8206 thru 8208	Sept.12/70	10:33 EST	1:30,000	300 ft. above MLW
70-L-(c)-8304	Sept.12/70	11:58 EST	1:20,000	2.4 ft. above MLW
70-L-(c)-8325 thru 8329	Sept.12/70	12:13 EST	1:20,000	2.0 ft. above MLW
70-L-(c)-8346 thru 8350	Sept.12/70	12:21 EST	1:20,000	1.9 ft. above MLW

REMARKS

2. SOURCE OF MEAN HIGH-WATER LINE:

Air Photo Compilation.
Date of Photos - Sept. 12, 1970.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

Air Photo Compilation
Date of Photography - Sept. 12, 1970.

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

5. FINAL JUNCTIONS

NORTH	EAST <input checked="" type="checkbox"/> No	SOUTH	WEST <input checked="" type="checkbox"/> No
TP-00169	Contemporary Survey	TP-00171	Contemporary Survey

REMARKS

HISTORY OF FIELD OPERATIONS TP-00170

I. FIELD INSPECTION OPERATION FIELD EDIT OPERATION

* Field Inspection Operation

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J. Wilson	Sept. 17/70
2. HORIZONTAL CONTROL * RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	E. Hartford	Sept. 10/70
	None	
	E. Hartford	Sept. 10/70
3. VERTICAL CONTROL RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	Inapplicable	
	"	
	"	
4. LANDMARKS AND AIDS TO NAVIGATION RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	None	
	None	
	None	
5. GEOGRAPHIC NAMES INVESTIGATION TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION BY		
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY J. Davis & W. Mottern	NOV. 1972
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED One
2. VERTICAL CONTROL IDENTIFIED Inapplicable

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
70-L-(c)-8206	Pochet, 1868 *		

3. PHOTO NUMBERS (Clarification of details)
70-L-8327, 8206, 8326, 8208

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: REPORT NONE
6. BOUNDARY AND LIMITS: REPORT NONE

7. SUPPLEMENTAL MAPS AND PLANS
None

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

1 Field Edit Ozalid, 1 Field Edit Report, 7 Forms 526.

RECORD OF SURVEY USE TP-00170

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation Complete Pending Field Edit.	May 1971	Class III Manuscript		5/14/71
Field Edit Applied	Dec. 1972	Class I Manuscript		
Final Review	Aug. 1973	CHART MAINT. PRINT	10/1/73	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1		8/1/73	Landmarks for Charting.
1		8/1/73	Landmarks to be deleted.
1		8/3/73	Landmarks to be deleted.

2. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____
 3. REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

1. BRIDGING PHOTOGRAPHS; DUPLICATE BRIDGING REPORT; COMPUTER READOUTS.
 2. CONTROL STATION IDENTIFICATION CARDS; FORM NOS 567 SUBMITTED BY FIELD PARTIES.
 3. SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
 ACCOUNT FOR EXCEPTIONS:
 4. DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: MAR. 10, 1975

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

SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	

FIELD INSPECTION

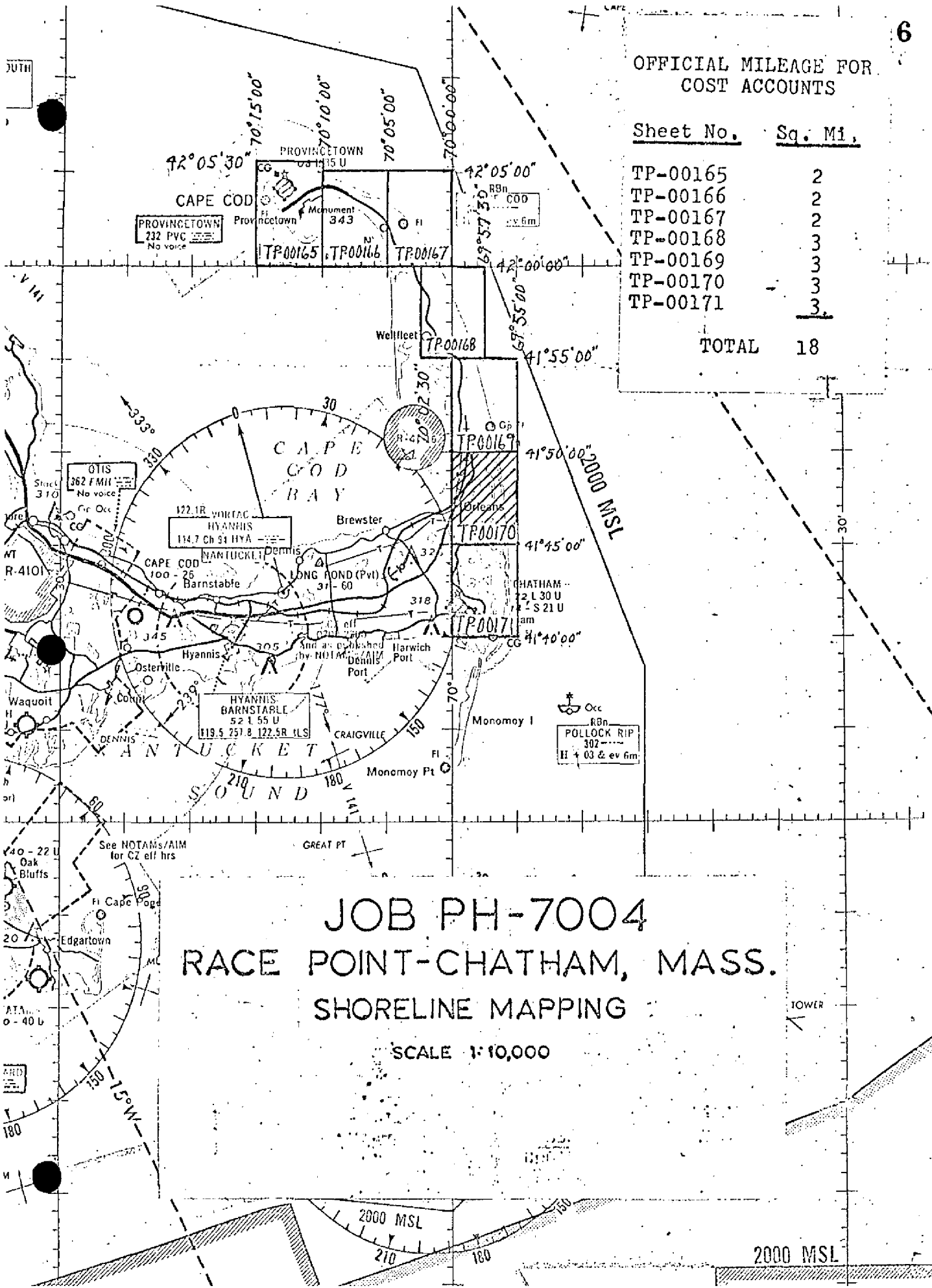
TP-00170

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and identification of the horizontal control necessary for the aerotriangulation of the project.

OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No. Sq. Mi.

TP-00165	2
TP-00166	2
TP-00167	2
TP-00168	3
TP-00169	3
TP-00170	3
TP-00171	3
TOTAL	18



JOB PH-7004
 RACE POINT-CHATHAM, MASS.
 SHORELINE MAPPING

SCALE 1:10,000

2000 MSL

SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORTS TP-00165 THROUGH TP-00171

These 1:10,000 scale shoreline manuscripts comprise Project PH-7004, Cape Cod, Massachusetts. The shoreline on this project is mostly sandy beach along the Atlantic Ocean. The position of the mean high water line, the mean low water line, shoals close to shore and channel into Nauset Harbor are subject to continuous change. The job index in the lower left corner of each sheet shows the location of each map in the project.

The only field work preceding compilation was the identification of horizontal control necessary for bridging.

The C-8 Stereoplanigraph was used for bridging to provide control for compilation, using 1:15,000 and 1:20,000 scale color photography taken on September 12, 1970. Compilation was by Wild B-8 Plotter in the spring of 1971. Stable base copies of the map and ratio color prints of the photographs were furnished for hydro support.

Field edit was accomplished by an experienced photogrammetrist ~~in the summer of 1971 and~~ in the fall of 1972.

Final review was done at the Atlantic Marine Center in July and August, 1973.

A cronaflex positive and a negative of the final reviewed manuscript were forwarded for record and registry.

Photogrammetric Plot Report
Race Point - Chatham, Massachusetts
Job PH-7004
February 1971

21. Area Covered

The project covers part of Cape Cod, Massachusetts, from Race Point to Chatham. Included in the area are sheets TP-00165 thru TP-00171.

22. Method

Five bridges were run on the C-8 Stereoplanigraph to provide control for compilation, and ratio points for the offshore photography. All strips were adjusted on the IBM 1620. Strip # 1 (70-L(C)-8200 thru 8214) was adjusted on four triangulation stations with companion points, and four additional triangulation stations as checks. This adjustment did not give the best results, since it did not hold the two central points by approximately seven feet. However, the strip was balanced and other control points proved that the answers were the best that could be expected with a number of weak alongshore models. Strip # 2 (70-L(C)-8221 thru 8228) was adjusted on four triangulation stations with three additional stations and six tie points as checks. Strip # 3 (70-L(C)-8238 thru 8249) was adjusted on four triangulation stations with five stations and ten tie points as checks. Strip # 4 (70-L(C)-8232 thru 8236) was adjusted on five triangulation stations with four companion points and seven tie points as checks. Strip # 5 (70-L(C)-8276 thru 8281) was adjusted on five triangulation stations with two stations and eight tie points as checks. All triangulation stations, pass points and ratio points were prepared and plotted on the map manuscripts. Vertical adjustments of these strips are only approximate and should not be relied on for vertical control.

23. Adequacy of Control

All control was adequate and complied with project instructions. All stations held within National Map Accuracy.

24. Supplemental Data

Local GS quads were used to provide vertical elevations for adjustments.


25. Photography

All photography was adequate as to overlap, definition and quality. Coverage by individual strips could have been changed to provide more land areas in the models.

Submitted by:

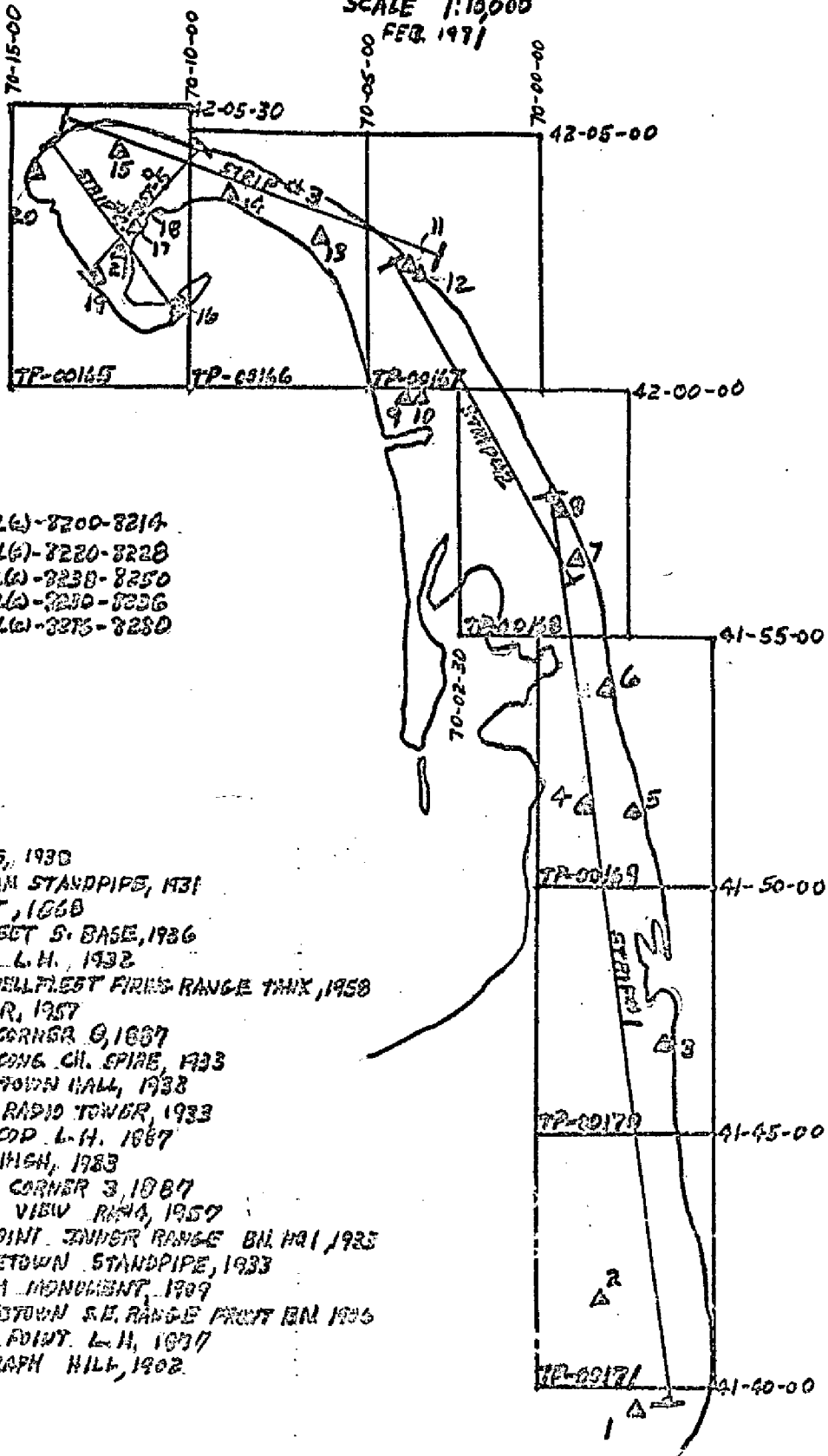

John D. Perrow, Jr.

Approved by:


Henry P. Eichert
Chief, Aerotriangulation Section

PH-7004 RACE POINT-CHATHAM, MASS.

SCALE 1:10,000
FEB. 1971



- STRIP#1 70-L6)-8200-8214
- STRIP#2 70-L6)-8220-8228
- STRIP#3 70-L6)-8230-8250
- STRIP#4 70-L6)-8250-8256
- STRIP#5 70-L6)-8275-8280

1. MORRIS, 1930
2. CHATHAM STANDPIPE, 1931
3. POCHIST, 1868
4. WELLFLEET S. BASE, 1936
5. NAUSET L.H., 1932
6. CAMP WELLFLEET FIRE-RANGE TRNX, 1959
7. FRAZIER, 1957
8. TRURO CORNER 0, 1887
9. TRURO CONG. CH. SPIRE, 1933
10. TRURO TOWN HALL, 1933
11. SOUTH RADIO TOWER, 1933
12. CAPE COD L.H. 1867
13. HEAD INSH, 1983
14. TRURO CORNER 3, 1887
15. OCEAN VIEW RANG, 1957
16. LONG POINT TOWER RANGE BIL NO 1, 1923
17. PROVINCETOWN STANDPIPE, 1933
18. PILGRIM MONUMENT, 1909
19. PROVINCETOWN S.E. RANGE FRONT BIL 1936
20. RACE POINT L.H., 1877
21. TELEGRAPH HILL, 1902

DESCRIPTIVE REPORT CONTROL RECORD

MAP T-P-00170 PROJECT NO. PH-7004 SCALE OF MAP 1:10,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meters) FORWARD (BACK)	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meters) (BACK)
POCHET, 1868	G.P. Vol. I 132	N.A. 1927	41° 46' 39.352" ✓	1214.1 ✓	(637.0) ✓
EASTHAM-ORLEANS 5 (WM) (EAST- HAM CORNER 3), 1887	" 191	"	69° 56' 26.150" ✓ 41° 47' 54.68" ✓	603.9 ✓ 1687.0 ✓	(781.8) ✓ (164.1) ✓
EASTHAM CORNER, 2, 1887	" 193	"	69° 59' 37.42" ✓ 41° 48' 08.397" ✓	864.0 ✓ 259.1 ✓	(521.2) ✓ (1592.0) ✓
WARNER, 1933	" 198	"	69° 59' 16.609" ✓ 41° 48' 00.907" ✓	383.4 ✓ 28.0 ✓	(1001.7) ✓ (1823.1) ✓
MAYOS HOUSE SOUTH CHIMNEY, 1868	" 187	"	69° 56' 38.175" ✓ 41° 47' 20.06" ✓	881.3 ✓ 618.9 ✓	(503.9) ✓ (1232.2) ✓
ORLEANS ORTHODOX CHURCH, SPIRE, 1887	" 153	"	69° 56' 45.87" ✓ 41° 47' 04.237" ✓	1059.2 ✓ 130.7 ✓	(326.3) ✓ (1720.4) ✓
SAMPSON, 1868	" 164	"	69° 58' 30.249" ✓ 41° 45' 21.117" ✓	698.6 ✓ 651.5 ✓	(687.0) ✓ (1199.6) ✓
			69° 57' 00.496" ✓	11.5 ✓	(1374.7) ✓
COMPUTED BY A.C. Rauck, Jr.	DATE March 4, 1971	CHECKED BY B. Wilson	DATE April 15, 1971		

COMPILATION REPORT

TP-00170

31. DELINEATION

1:30,000 scale color photography was provided for compilation on the Wild B-8 stereoplotter. Common points were dropped to the 1:20,000 scale color ratios provided for hydro support use.

Photograph coverage was adequate. There was no field inspection prior to compilation.

32. CONTROL

See "Photogrammetric Plot Report", dated Feb. 1971.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage - none.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline has been delineated from office interpretation of the photographs.

36. OFFSHORE DETAILS

None

37. LANDMARKS AND AIDS

There are no aids to navigation within the limits of this map.

The field editor stated on the Field Edit Ozalid that charted landmark CUPOLA (Lat. 41°49'47", Long. 69°58'26") was not of good landmark value because there were trees between it and the shoreline. He did not submit a Form 76-40 for deletion, nor did he mention if he viewed the cupola from Saltⁱⁿ Bay or the Atlantic Ocean. After stereoscopic examination of the photographs, the compiler believes that this charted landmark may still be visible from the ocean but of little use in Saltⁱⁿ Bay. It is submitted by the compiler on Form 76-40 for charting as a landmark.

37. LANDMARKS AND AIDS

Charted landmark SPIRE, (Lat. 41°47'04", Long. 69°58'30"), was ignored by the field editor, other than to state in his report that "No landmarks or aids to navigation are recommended for charting on this sheet". The compiler believes that because of trees, this object is no longer of value as a landmark. It is submitted by the compiler on Form 76-40, Landmarks for Deletion.

Charted landmark SIGNAL MAST has been destroyed and is recommended for deletion.

Form 76-40 for the above objects were submitted to the Rockville Office on August 1, 1973.

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

See Form 76-36b, Item 5.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

41. FIELD EDIT

The field edit was good, with most of the questions posed by the compilation section answered.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with USGS quadrangle ORLEANS, MA, scale 1:24,000, dated 1962.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with chart 270, scale 1:20,000, 3rd Edition, dated Feb. 5, 1968 and chart 1208, scale 1:80,000, 15th Edition, dated October 31, 1970.

Comparison indicates that the shoreline and bottom at the entrance to Nauset Harbor is subject to frequent changes.

ITEMS TO BE APPLIED TO CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Respectfully submitted:

Charles H. Bishop

for B. Wilson
Cartographic Technician
~~April 20, 1971~~
August 2, 1973

Approved for forwarding:

Melvin J. Umbach
Melvin J. Umbach, CDR, NOAA
Chief, Coastal Mapping Division, AMC

Approved:

Alfred C. Holmes
Alfred C. Holmes
RADM, NOAA
Director, Atlantic Marine Center

July 5, 1973

GEOGRAPHIC NAMES

FINAL NAME SHEET

Ph-7004 (Mass)

TP-00170

Atlantic Ocean

Cape Cod

Eastham

Hopkins Island

Icehouse Pond

Little Pochet Island

Mill Pond

Nauset Beach

Nauset Harbor

Nauset Heights

Orleans

Orleans Beach

Rachel Cove

Rocky Point

Salt Pond Bay

Snow Point

Stony Island

Tonset

Town Cove

Weeset

Woods Cove

C. E. Harrington
C. E. Harrington
Geographic Names

FORM C&GS-1002
(9-68)U.S. DEPARTMENT OF COMMERCE
ESSA
COAST AND GEODETIC SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

TP-00170

1. PROJECTION AND GRIDS ALS	2. TITLE ALS	3. MANUSCRIPT NUMBERS ALS	4. MANUSCRIPT SIZE ALS
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY ALS	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) XX		7. PHOTO HYDRO STATIONS XX
8. BENCH MARKS XX	9. PLOTTING OF SEXTANT FIXES XX	10. PHOTOGRAMMETRIC PLOT REPORT ALS	11. DETAIL POINTS ALS
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE ALS	13. LOW-WATER LINE ALS	14. ROCKS, SHOALS, ETC. ALS	15. BRIDGES XX
16. AIDS TO NAVIGATION XX	17. LANDMARKS XX	18. OTHER ALONGSHORE PHYSICAL FEATURES ALS	19. OTHER ALONGSHORE CULTURAL FEATURES ALS
PHYSICAL FEATURES			
20. WATER FEATURES ALS		21. NATURAL GROUND COVER XX	22. PLANETABLE CONTOURS XX
23. STEREOSCOPIC INSTRUMENT CONTOURS XX	24. CONTOURS IN GENERAL XX	25. SPOT ELEVATIONS XX	26. OTHER PHYSICAL FEATURES ALS
CULTURAL FEATURES			
27. ROADS ALS	28. BUILDINGS ALS	29. RAILROADS XX	30. OTHER CULTURAL FEATURES ALS
BOUNDARIES			
31. BOUNDARY LINES XX		32. PUBLIC LAND LINES XX	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES ALS		34. JUNCTIONS ALS	35. LEGIBILITY OF THE MANUSCRIPT ALS
36. DISCREPANCY OVERLAY ALS	37. DESCRIPTIVE REPORT ALS	38. FIELD INSPECTION PHOTOGRAPHS XX	39. FORMS ALS
40. REVIEWER Arnold L. Shands May 13, 1971		SUPERVISOR, REVIEW SECTION OR UNIT A.C. Rauck, Jr.	
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 Susan Kumer 12/4/72		SUPERVISOR A.C. Rauck, Jr.	
Reviewer: R.R. White 12/7/72			
43. REMARKS Field Edit Applied From Field Edit Ozalid, The Field Edit Report And Photographs 70-L-(c)-8206, 8208, 70-L-(c)-8326, 8327.			

FIELD EDIT REPORT
TP-00170
Nauset Harbor
Race Point - Chatham, Mass.

17

52. ADEQUACY OF COMPILATION

Due to the heavy surf on Nauset Beach at the time of field edit, (late October-mid November 1972) it was not possible to verify the mean high water line by distances from identifiable objects on the photos. It is felt that the compiled shoreline is shown correctly on the manuscript, from field observations.

54. RECOMMENDATIONS

None.

56. LANDMARKS AND AIDS TO NAVIGATION

No landmarks or aids to navigation are recommended for charting on this sheet.

57. ADDITIONAL INFORMATION

All times mentioned on the manuscript refer to Eastern Daylight Time (time zone 4, 60° long.).

Various piers, rocks and other features have been located and appear on the field edit original.

Respectfully submitted,

James W. Davis
James W. Davis
Ens/NOAA

REVIEW REPORT TP-00170

SHORELINE

July 18, 1973

61. GENERAL STATEMENT

See Summary on page 6 of this Descriptive Report.

It is evident from the various comparisons listed below that the shoreline and bottom contours around the entrance to Nauset Harbor are subject to continual change. Shoreline differences are shown on the comparison print which is bound with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

There was no registered topographic survey available for comparison north of Lat. $41^{\circ}48'45''$. South of that latitude, a comparison was made with a copy of the Incomplete Manuscript for T-11189a, scale 1:10,000, dated 1953. Significant differences between the two surveys were shown in blue on the comparison print. Large shoreline differences at the entrance to Nauset Harbor were noted.

In the area compared, TP-10070 supersedes the registered survey for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with U.S.G.S. Quadrangle ORLEANS, MA, scale 1:24,000, dated 1962. Significant differences between this map and TP-00170 were shown in brown on the comparison print.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with Boat Sheet H-9233 (PE-20-3-71). It was apparent that TP-00170 was the source of shoreline for this boat sheet.

Soundings on the boat sheet were insufficient to locate the mean low water line. This feature was retained on TP-00170 except where it was in direct conflict with soundings.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS (cont'd)

The mean high water line was in good agreement. At Lat. $41^{\circ} 48' 40'' - 50''$ soundings encroach upon the mean high water line. In this area the MHWL cannot be changed photogrammetrically - it was mapped correctly from the 1970 photography. Due to the changeable nature of this area, it is possible - and probable - that the MHWL receded between the time of photography and the time of the hydrographic survey.

Significant differences are shown on the comparison print in purple.

65. COMPARISON WITH NAUTICAL CHARTS

North of Lat. $41^{\circ} 47'$ a comparison was made with Chart 1280, scale 1:80,000, 17th edition, dated October 21, 1972. No significant differences were noted, except that charted landmarks SPIRE and SIGNAL MAST were not mapped on TP-00170--they were recommended for deletion.

South of Lat. $41^{\circ} 47'$ a comparison was made with Chart 270, scale 1:20,000, 4th edition, dated October 16, 1971. No significant differences were noted.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS


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

Reviewed by:


Charles H. Bishop

Charles H. Bishop
Cartographer

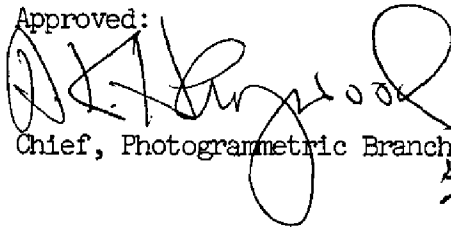
Approved for forwarding:



Melvin J. Gombach, CDR, NOAA
Chief, Coastal Mapping Division, AMC

Approved:


Alfred C. Holmes
RADM, NOAA
Director, Atlantic Marine Center

Approved:


Chief, Photogrammetric Branch


Chief, Coastal Mapping Division

69° 58'

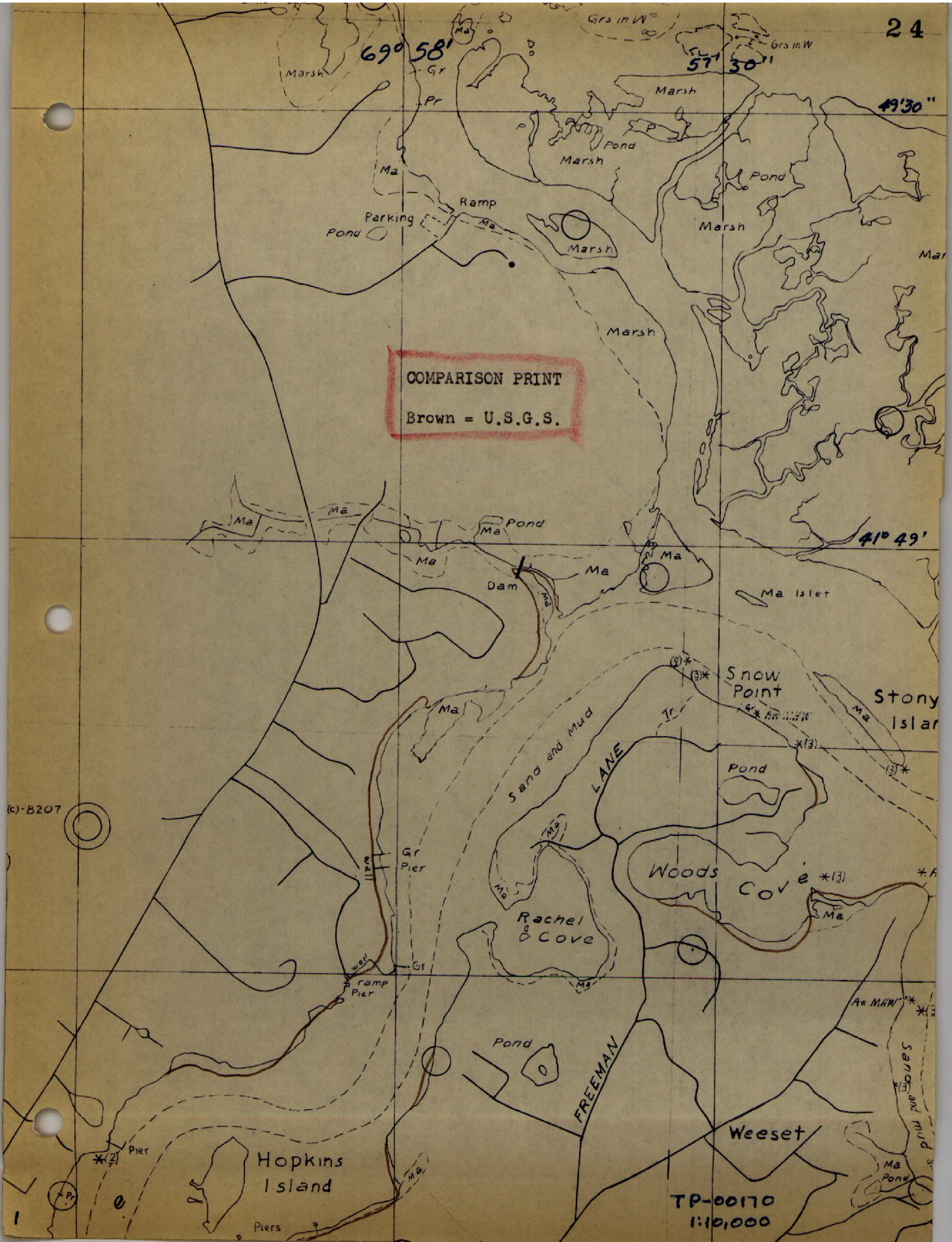
57° 30'

49° 30''

COMPARISON PRINT
Brown = U.S.G.S.

41° 49'

(C)-B207



57'

56'30"

X=1,025,000 ft.

69°56'

COMPARISON PRINT

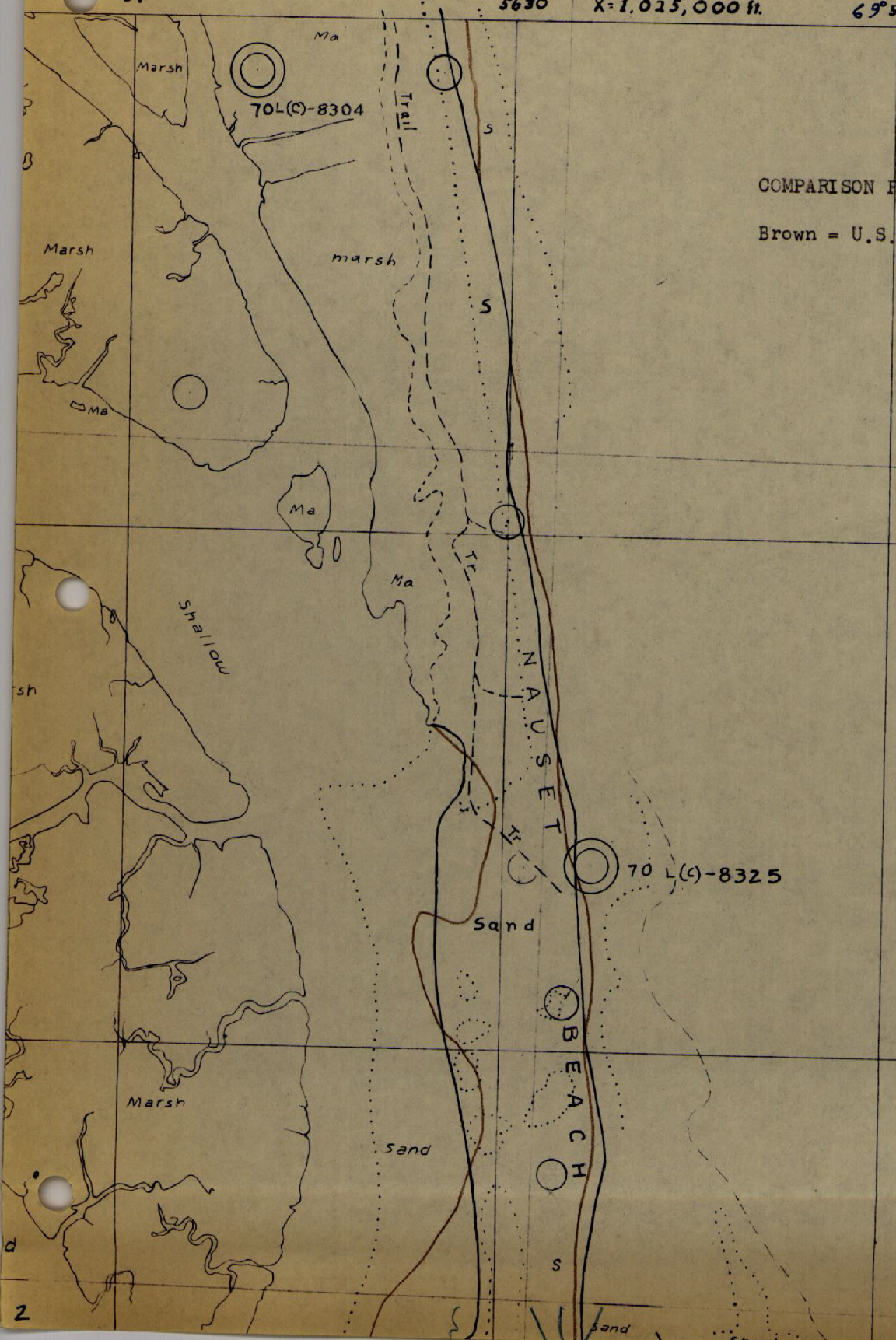
Brown = U.S.G.S.

49'30"

NO
"The photogrammetric locati
offshore from the mean hig
may not be complete or
reviewed hydrographic surve
should be consulted fo

41°49'

TP-00170
1:10,000



△ EASTHAM CORNER,
2, 1887

26

41°46'

COMPARISON PRINT

Brown = U.S.G.S.
Red = Chart 270

Rocky Point

Groins

Platform

Groins

Pr in ruins

Platform

Gr

Pr

HOPKINS LANE

47°30"

P

E

70L(C)-8206

TONSET

Charted EDMK
recommended for deletion.

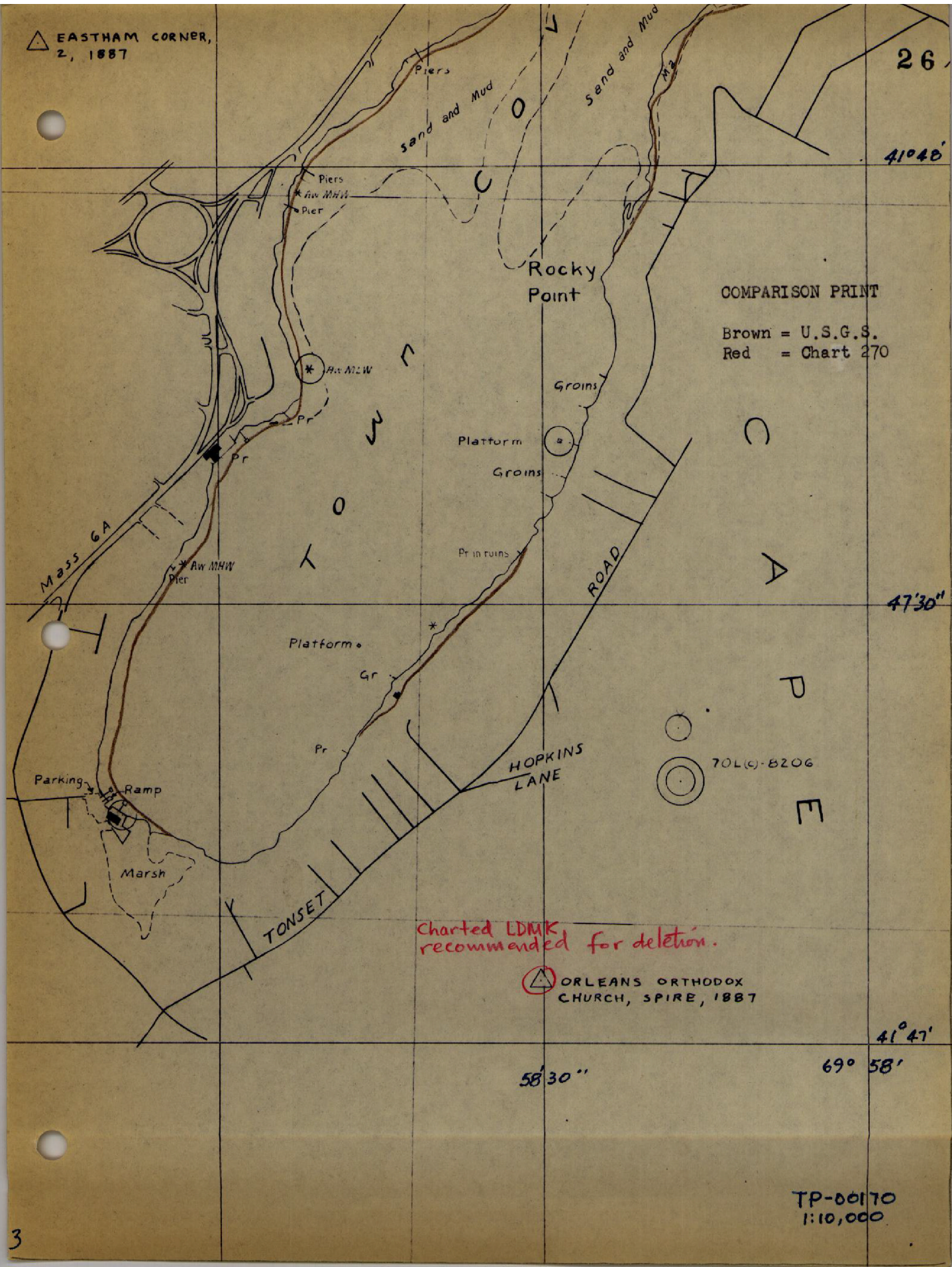
△ ORLEANS ORTHODOX
CHURCH, SPIRE, 1887

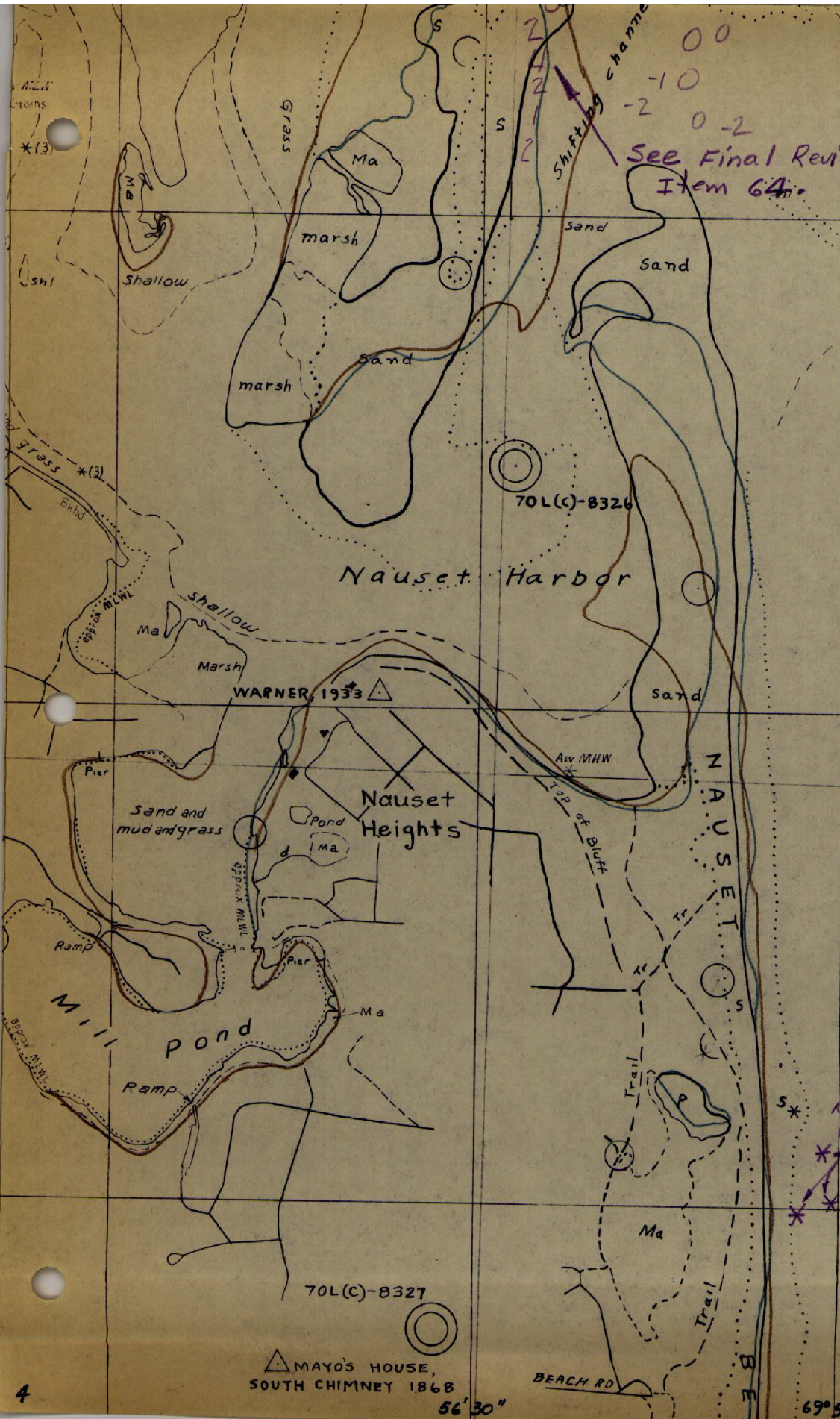
41°47'

58°30"

69° 58'

TP-00170
1:10,000





COMPARISON PRINT
 Purple = H-9233
 Brown = U.S.G.S.
 Blue = T-11189a

See Final Review Report
 Item 64

Rks not identifiable
 on photos

TP-00170
 1:10,000

MAYO'S HOUSE,
 SOUTH CHIMNEY 1868

56'30"

69°56'

56' 30"

69° 56'

Orleans Beach

Parking

marsh

41° 47'

COMPARISON PRINT

Brown = U.S.G.S.
Blue = T-11189a

marsh

Tr

Sand

Ma

POCHET, 1868

Sub. Pt.

46' 30"

70L(C)-8328

marsh

Trail

46'

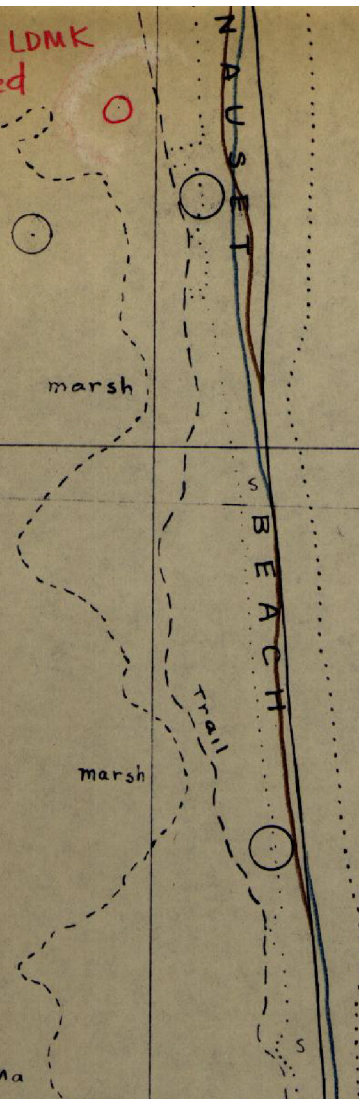
marsh

Little Pochet I

Sand

TP-00170
1:10,000

Charted LDMK destroyed



COMPARISON PRINT

Brown = U.S.G.S.
 Blue = T-11189a
 Red = Chart 270

30" 56' 55'30" X=1,030,000ft.

NATIONAL OCEAN SURVEY
 SHORELINE MANUSCRIPT

TP-00170

MASSACHUSETTS
 RACE POINT-CHATHAM
 NAUSET HARBOR

SCALE 1:10,000
 (1 inch = 803.33 ft.)

CONTROL DATA
 Polyconic projection: 1927 North American Datum
 5,000 foot grid based on MASSACHUSETTS (Mainland) plane coordinate system
 Datum plane: Mean High Water

(C)-8330