

Original

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Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey <u>SHORELINE (Photogrammetric)</u>	
Field No. ....	Office No. <u>T-11803</u>
LOCALITY	
State <u>Mississippi</u>	
General locality <u>Mississippi Sound</u>	
Locality <u>Bernard Bayou</u>	
<u>19 66 - 1967</u>	
CHIEF OF PARTY	
<u>J. Bull, Director, Atlantic Marine Center</u>	
LIBRARY & ARCHIVES	
DATE .....	

USCOMM-DC 5087

## DESCRIPTIVE REPORT - DATA RECORD

T - 11803

PROJECT NO. (II):  PH-6625		
FIELD OFFICE (III):		CHIEF OF PARTY
PHOTOGRAMMETRIC OFFICE (III):  Atlantic Marine Center		OFFICER-IN-CHARGE J. Bull, Director Atlantic Marine Center
INSTRUCTIONS DATED (II) (III):  <i>DEL. 1965 (FIELD) ; MAR. 11, 1966 (Field, Suppl. #1) MAR. 1, 1966 (Aerofixing &amp; station) April 27, 1966 (OFFICE) SEPT. 27, 1967 (Photo Hydro Support &amp; Edit)</i>		
METHOD OF COMPILATION (III):  Kelsh		
MANUSCRIPT SCALE (III):  1:10,000		STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):  1:6,000 pantographed to 1:10,000
DATE RECEIVED IN WASHINGTON OFFICE (IV):		DATE REPORTED TO NAUTICAL CHART BRANCH (IV):
APPLIED TO CHART NO.	DATE:	DATE REGISTERED (IV):
GEOGRAPHIC DATUM (III):  N. A. 1927		VERTICAL DATUM (III): MHW <del>MEAN LOW WATER</del> 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):  BERNARD, 1935		
LAT.:  30° 24' 31.831" (908.2m)	LONG.:  89° 01' 39.909" (1065.3m)	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
PLANE COORDINATES (IV):  y = 269,954.24 ft.      x = 438,710.55 ft.		STATE  Mississippi
		ZONE  East
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.		



DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II):  None		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):  Air Photo Compilation  Date of Photos January 27, 1966		
PROJECTION AND GRIDS RULED BY (IV):  A. E. Roundtree		DATE  May, 1966
PROJECTION AND GRIDS CHECKED BY (IV):  R. Glaser		DATE  May, 1966
CONTROL PLOTTED BY (III):  J. Place		DATE  August, 1966
CONTROL CHECKED BY (III):  L. Graves		DATE  August, 1966
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):  P. Hawkins (WSC)		DATE  APRIL, 1966 <del>No date</del>
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY  L. Neterer	DATE  August, 1966
	CONTOURS  Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III):  A. L. Shands		DATE  September 1966
SCRIBING BY (III):  D. White		DATE  June 1967
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): R.E. SMITH (FIELD EDIT APPLICATION) " " (SCRIBING) C. H. Bishop (COMPILATION)		DATE MAY 1967 JULY 1967 September, 1966
REMARKS:  FIELD EDIT BY W.R. CAMERON IN FEB. 1967		



## DESCRIPTIVE REPORT - DATA RECORD

3

CAMERA (KIND OR SOURCE) (III):

C&amp;GS Single lens "S"

## PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	* STAGE OF TIDE
66-S-1814 thru 1816	Jan. 27, 1966	0840	1:30,000	0.1 above M.L.W.

\* Predicted

TIDE (III)

Diurnal

	RATIO OF RANGES	<del>NEAP</del> RANGE	SPRING RANGE
REFERENCE STATION: Pensacola, Florida		1.3	
COORDINATE STATION: Biloxi, Biloxi, Miss.		1.8	
SUBORDINATE STATION:			

ATLANTIC MARINE CENTER  
WASHINGTON OFFICE REVIEW BY (IV):

M. M. Slawney

DATE:

JULY 1968

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

\* 4

RECOVERED:

\* 4

IDENTIFIED:

1 \*\*

NUMBER OF BM(S) SEARCHED FOR (II):

RECOVERED:

IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

REMARKS:

\* TWO STATIONS ARE WEST OF T-11803; ONE IS NORTHWEST  
\* \* NUGENT 2, 1959 IS NORTHWEST OF T-11803.



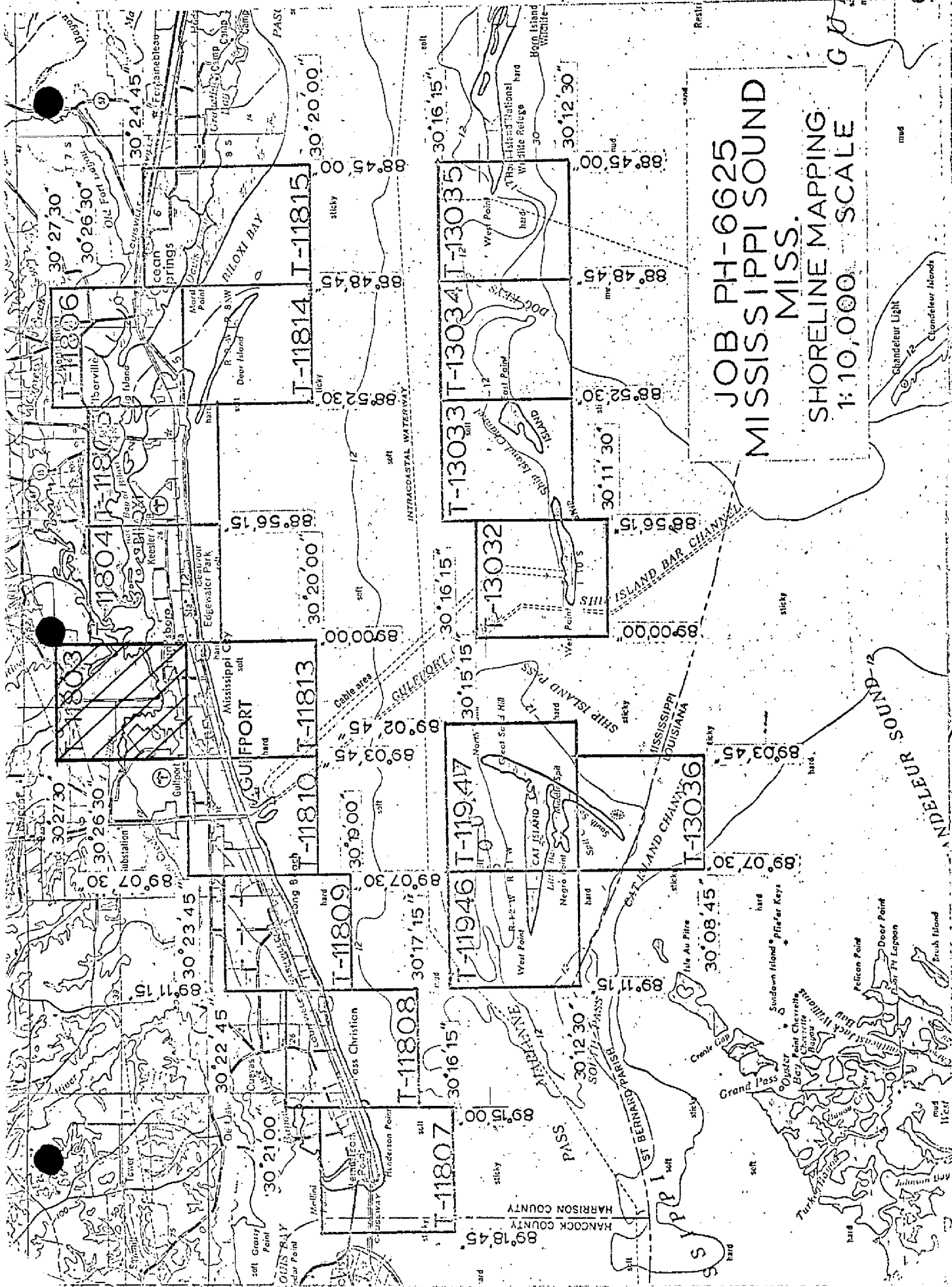
COMPILATION RECORD

COMPLETION DATE

REMARKS

Alongshore area for hydro.	September 1966	Superseded
Field Edit applied: Compilation Complete	May 1967	<i>Superseded</i>
<i>Revised after FINAL REVIEW</i>	<i>JULY, 1968</i>	





JOB PH-6625  
MISSISSIPPI SOUND  
MISS.  
SHORELINE MAPPING  
1:10,000 SCALE



SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT T-11803

Shoreline manuscript T-11803 is one of the eighteen 1:10,000 scale maps that comprise Ph-6625. These maps are for Mississippi Sound, from Bay St. Louis through Gulfport and Biloxi to Belle Fontaine Point; and the offshore area of Cat Island through Ship Island and includes the west end of Horn Island. The sketch on page 5 of this report shows the position of T-11803 in Ph-6625.

This is a stereo-instrument job in advance of hydrographic surveys of the area. The only field work preceding compilation was that pertaining to control identification, and pre-marking of control stations before photography. The stereoplanigraph bridge was run in the Washington Office with 1:30,000 scale panchromatic photography taken January 27, 1966 with the "S" camera. Compilation was by Kelsh Plotter with the same photographs used for bridging. Ratio prints at 1:10,000 scale were processed and furnished for hydro support.

The map was field edited in February 1967. Field edit was done on an ozalid, a cronaflex, and on various photographs. The map was scribed and stuck-up after applying the field edit.

Final review was done at the Atlantic Marine Center during July 1968.

The compilation manuscript was a vinylite sheet 3 minutes 45 seconds in latitude and longitude. The smooth manuscript is on cronaflex for registry and record after final review.



FIELD INSPECTION REPORT  
T-11803

There was no field inspection prior to office compilation.

PHOTOGRAMMETRIC PLOT REPORT  
Job PH-6625  
Mississippi Sound, Mississippi

Part I

21. Area Covered

Part I includes the mainland shore areas and the close, off-shore islands of Mississippi Sound. T-sheets 11803 through 11810 and 11813 through 11815 are included in this report.

22. Method

Three strips of photography were bridged on the stereoplanigraph and adjusted by IBM 1620 methods. All strips were joined by common control stations and/or tie points. All tie points between strips were averaged.

Strip #1 consisted of photographs 66-S-1849 through 1856. This strip was adjusted using five control stations with one additional station as a check.

Strip #2 consisted of photographs 66-S-1809 through 1817. This strip was adjusted using six control stations with fourteen additional stations as checks.

Strip #3 consisted of photographs 66-S-1830 through 1842. This strip was adjusted on four stations with six additional stations as checks.

23. Adequacy of Control

Control was adequate and complied with project instructions. The following stations could not be held during bridging operations.

#1. Bridge, 1935 (S.S.A.) This premarked station was observed in all strips but could not be held in the adjustment of bridges #2 and #3 by 15 to 20 feet. The station held within six feet in Strip #1, but this error was still large for a premarked station. No reasons could be determined for this error. It is possible the target could have been disturbed before photography since the station was in an area easily accessible to the public.



#2. Several office identified control stations were on the limits of standard map accuracy; however, due to the number of stations holding well within the limits, these stations were disregarded as having errors in office identification.

24. Supplemental Data

Local GS Quads were used for basic leveling during bridging operations.

25. Photography

Photography was adequate as to coverage, quality and definition.

Submitted by:

*Paul Hawkins*  
Paul Hawkins

Approved by:

*John D. Perrow Jr.*  
John D. Perrow, Jr.

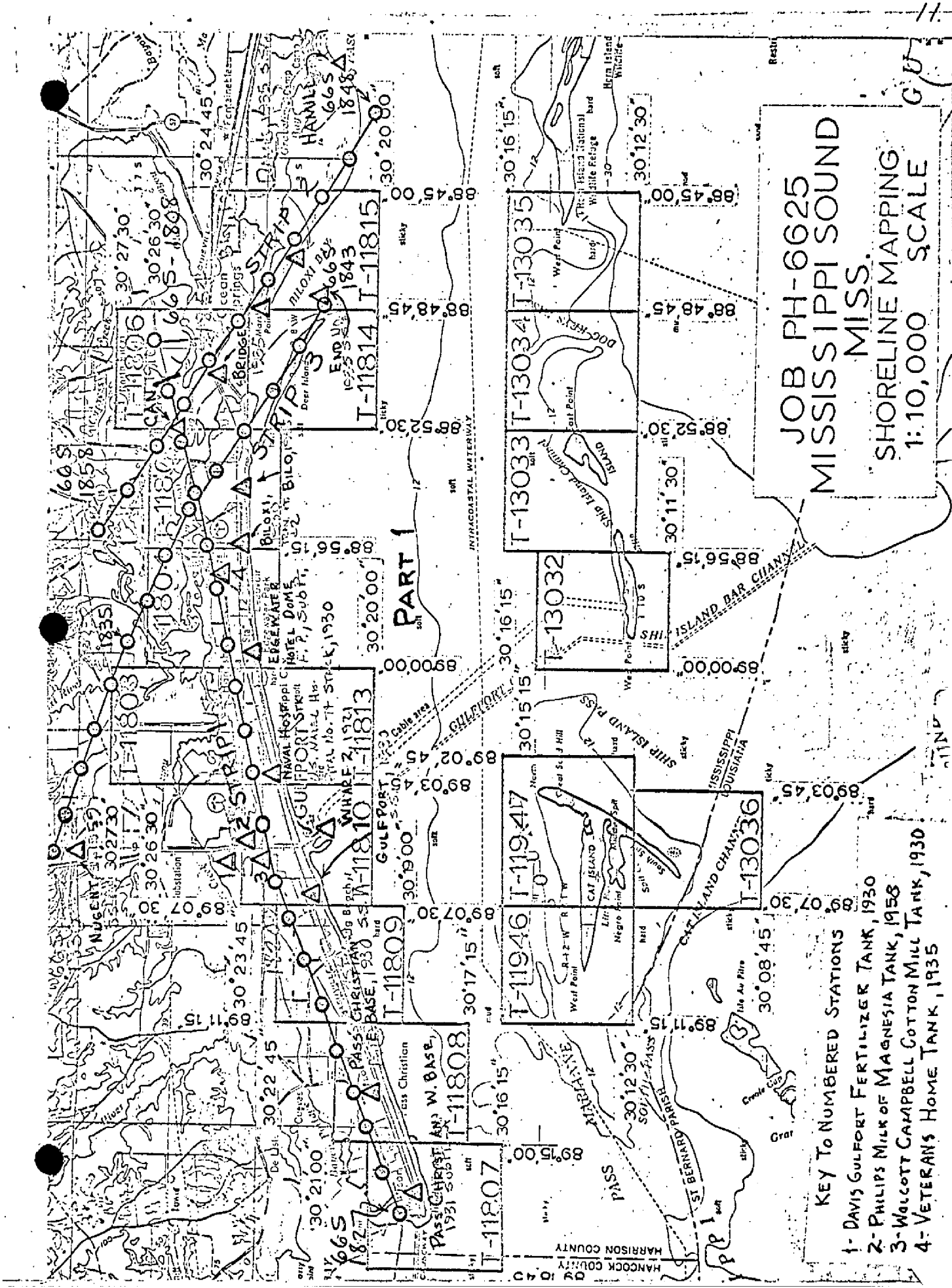
NOTES TO COMPILER  
Job PH-6625  
Mississippi Sound, Mississippi

Part I

Attempts to extend Bridge #3 to include plate 66-S-1843 met with repeated, poor results due to the small land area available for clearing the stereomodel. This area must be compiled by graphic methods. Ratio prints (scale 1:10,000) for this area as well as the entire project will be provided to the Compilation Office.

Part II of this project will follow as soon as control is provided for the area.





**JOB PH-6625  
MISSISSIPPI SOUND  
MISS.**

**SHORELINE MAPPING  
1:10,000 SCALE**

**KEY TO NUMBERED STATIONS**

- 1- DAVIS GULFPORT FERTILIZER TANK, 1930
- 2- PHILIPS MILK OF MAGNESIA TANK, 1958
- 3- WALCOTT CAMPBELL COTTON MILL TANK, 1930
- 4- VETERANS HOME TANK, 1935

**None**

[illegible]

COMM-DC-57843

COMPILATION REPORT  
T-11803

[REDACTED]

31. DELINEATION:

The Kelsh plotter was used. There was no field inspection. Photography was satisfactory.

32. CONTROL:

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA:

None

34. CONTOURS AND DRAINAGE:

Contours are inapplicable. Drainage was delineated from office interpretation of photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

Shoreline and alongshore details were delineated from office interpretation of photographs.

36. OFFSHORE DETAILS:

No statement.

37. LANDMARKS AND AIDS:

Appropriate copies of Form 567 for Landmarks and Aids were forwarded to the Washington office under date June 1967.

[REDACTED]

38. CONTROL FOR FUTURE SURVEYS:

None



39. JUNCTIONS:

Junctions are in agreement with T-11813 to the south, and T-11804 to the east. There are no contemporary surveys to the north or west.

40. HORIZONTAL & VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

Comparison has been made with U.S.G.S. Quadrangle Gulfport North, Mississippi, scale 1:24,000, dated 1954.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with USC&GS Chart No. 876-SC, scale 1:40,000 revised February 26, 1966.

Items to be applied to Nautical Charts Immediately:

None

Items to be carried forward:

None

Approved and Forwarded:

Submitted:

*J. Bull*  
J. Bull, RADM.  
Director, Atlantic Marine Center

*A. L. Shands*  
A. L. Shands  
Cartographic Aid

May 22, 1968

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6625 (Mississippi Sound, Miss.)

T-11803

- / Bernard Bayou
- / Big Lake
- / Brickyard Bayou
- / Coley Island
- / Ditch Bayou
- / Handsboro
- / Handsboro Bridge
- / Industrial Waterway
- / Shallow Point

Approved by:

*A. Joseph Wraight*  
A. Joseph Wraight  
Chief Geographer

Prepared by:

*Frank W. Pickett*  
Frank W. Pickett  
Cartographic Technician

49. NOTES FOR THE HYDROGRAPHER

Shallow lines shown on this sheet were determined by office interpretation of photographs and are shown as an aid to the hydrographer. If any shallow line shown does not exist as shown, this fact should be noted on the field edit ozalid.

Investigate non-floating aids and landmarks for charts and submit Form 567.

Refer to notes on field edit ozalid.



## PHOTOGRAMMETRIC OFFICE REVIEW

TJH/EX 11803

1. PROJECTION AND GRIDS CHB	2. TITLE CHB	3. MANUSCRIPT NUMBERS CHB	4. MANUSCRIPT SIZE CHB
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY CHB	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 Bridge - W. O.	11. DETAIL POINTS XX
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE CHB	13. LOW-WATER LINE XX	14. ROCKS, SHOALS, ETC. CHB	15. BRIDGES CHB
16. AIDS TO NAVIGATION XX	17. LANDMARKS CHB	18. OTHER ALONGSHORE PHYSICAL FEATURES CHB	19. OTHER ALONGSHORE CULTURAL FEATURES CHB
PHYSICAL FEATURES			
20. WATER FEATURES CHB		21. NATURAL GROUND COVER CHB	22. PLANETABLE CONTOURS XX
23. STEREOSCOPIC INSTRUMENT CONTOURS XX	24. CONTOURS IN GENERAL XX	25. SPOT ELEVATIONS XX	26. OTHER PHYSICAL FEATURES CHB
CULTURAL FEATURES			
27. ROADS CHB	28. BUILDINGS CHB	29. RAILROADS XX	30. OTHER CULTURAL FEATURES CHB
BOUNDARIES			
31. BOUNDARY LINES XX		32. PUBLIC LAND LINES XX	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES CHB		34. JUNCTIONS CHB	35. LEGIBILITY OF THE MANUSCRIPT CHB
36. DISCREPANCY OVERLAY XX	37. DESCRIPTIVE REPORT CHB	38. FIELD INSPECTION PHOTOGRAPHS XX	39. FORMS CHB
40. REVIEWER CHB Charles H. Bishop		SUPERVISOR, REVIEW SECTION OR UNIT ACR Albert 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 Laurence L. Graves		SUPERVISOR Albert C. Rauck, Jr.	
43. REMARKS  Field Edit was applied from cronaflex positive and Field Ratio photographs Nos. 66 S 1815 and 66 S 1817.			

## FIELD EDIT REPORT

SHEET T-11803

JOB PH-6625

FEBRUARY 1967

Respectfully submitted,

*William R. Cameron*

William R. Cameron

ENS, USESSA

Chief, Photo Party 61

## 51 Methods

All field edit was done in accordance with project instructions and photo instructions. Certain shoreline and offshore features were located by planetable and radial-plot methods and are shown on a cronaflex positive of the manuscript.

An inspection of alongshore features such as marsh areas, piers, piers in ruins, etc. was made. Additions and corrections are shown on field ratio prints.

All landmarks and fixed aids to navigation were located or verified and a Form 567 was submitted.

All field edit notes were made in violet ink on the field ratio prints. Each correction or group of corrections was cross-referenced by appropriate photograph numbers on the field edit ozalid. This ozalid is an index and inventory of all corrections to be applied to the map manuscript.

## 52 Adequacy of Compilation

Compilation of the manuscript was adequate and complete considering there was no field inspection of the area prior to compilation.

## 54 Recommendations

None.

## 56 Additional Information

Field edit information concerning this manuscript appears on the following field ratio prints:

66S-1815  
66S-1817.

Numerous foul areas were found in Bernard Bayou and were delineated on a cronaflex positive of this manuscript by planetable methods.

In several cases the apparent shoreline was compiled as the MHWL. Corrections were made on the field ratio prints. If no corrections or measurements are shown, the compilation is correct.

A submerged cable and a submerged pipeline were found and the shore ends are shown on the field ratio prints.

Compiled buildings cross-hatched in green ink should not be charted.

The note to verify shallow areas on the field edit ozalid is not applicable.



### NONFLOATING AIDS CHECKING MARKS FOR CHARTS

TO BE CHARTED  
FOR REFERENCE  
KODAK SAFETY FILM

STRIKE OUT TWO

Atlantic Marine Center  
June 6, 1967

I recommend that the following objects which have ~~(not been)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(not been)~~ the charts indicated.

The positions given have been checked after listing by

**R. J. Pate**

J. Bull, RADM, USESSA,  
Director. AMC.

Chief of Party

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. 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.



TO BE CHARTED  
TO BE REHEWED  
TO BE REHEWED

STRIKE OUT TWO

## NON-FLOATING AND SURF LANDMARKS FOR CHARTS

June 6, 1967

Atlantic Marine Center

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

The positions given have been checked after listing by

R. J. Pate

for J. Bull, RADM, USESSA  
Director, AMC

Director, AMC	Chief of Party.
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[illegible]

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. 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



21

REVIEW REPORT T-11803  
SHORELINE  
July 1968

61. GENERAL STATEMENT:

See Summary on page 6 of this Descriptive Report.

An ozalid Comparison Print (pages 24 through 26) which shows the differences noted in Items 62, 64, and 65 is included with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Registered Survey T-9376<sup>S</sup>/2; 1:10,000; Field Edited in 1954.

Differences with T-9376<sup>S</sup>/2 are shown in blue on the Comparison Print.

(a) T-11803 shows the height and elevation of Gulfport Mun. Water Tank 1958 as 176 (199), page 24, whereas T-9376<sup>S</sup>/2 shows it as 175 (204). It is noted that the field editor for T-11803 gave the 176 (199) on field edit photo 66-S-1817, but submitted a Form 567 with "176 (193)". The 176 (199) is used because the tank is located on land that is beyond the 20 ft. contour according to T-9376<sup>S</sup>/2.

(b) The "Industrial Waterway", the cut at Shallow Point, and the drainage canal, page 26, are all new since 1954.

(c) Other changes in the shoreline of Bernard Bayou, mostly small, are also from dredging, filling, and construction.

This map supersedes the previous registered survey for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

U.S.G.S. quad. GULFPORT NORTH, MISS.; 1:24,000; Field edit in 1954.

This quadrangle is a reduction of Registered Survey T-9376<sup>S</sup>/2, see Item 62, and the same differences apply.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

BOAT SHEET H-8923 (HFP 742 10-3-66); 1:10,000; 1966

Incomplete Manuscript T-11803 was used for shoreline etc. by the hydrographic party.



The Boat Sheet Bromide has a note "Questionable shoreline change (pencilled on boat sheet by the hydrographer)" and two arrows to near latitude  $30^{\circ} 25.5'$ , longitude  $89^{\circ} 00.5'$ . It is noted that these compilation errors, the mud and grassy bottoms were compiled as marsh, which were missed in field edit, but had been corrected during final review.

The Boat Sheet position of a "pier ruins" near latitude  $30^{\circ} 24.25'$ , longitude  $89^{\circ} 01.85'$  is about 20 meters west of its position on T-11803. The position on T-11803 is from the field editor's cronaflex, to which the field editor's ozalid refers us for the "exact position". The pier ruins are not visible on photographs 66-S-1815 through 1817. Notes pertaining to this and to some other items are on the Comparison Print, page 25, in green.

65. COMPARISON WITH NAUTICAL CHARTS:

Chart 876 S.C.; 1:40,000; Jan. 1968 corrected to Notice to Mariners #41 of Oct. 14.

The chart scale makes many of the details on T-11803 difficult to show. Differences with the chart are shown on the Comparison Print in red.

Construction has altered the Industrial Waterway near longitude  $89^{\circ} 01.2'$ , and the shoreline of Bernard Bayou near Handsboro (pages 25 & 26).

Other details and differences with the chart are on the Comparison Print.

66. ADEQUACY OF RESULTS:

This survey complies with the project instructions, Bureau requirements, and the National Standards of Map Accuracy. No accuracy tests were run in the field.

Approved by:

Submitted by:

For *J. Bull*  
J. Bull, RADM, USESSA  
Director, Atlantic Marine Center

*M. M. Slavney*  
M. M. Slavney

Approved by:

*Charles Lamm*  
Chief, Photogrammetric Branch <sup>ADG</sup>

*R. H. Houlton*  
Chief, Photogrammetry Division

Chief, Nautical Chart Division

**STRIKE OUT TWO**

~~CONFIDENTIAL~~  
TO BE REVISED  
~~CONFIDENTIAL~~

Atlantic Barbra Center July 18, 1968

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

The positions given have been checked after listing by

**M. H. Slattery •**

**J. DILL, RAM, URSULA**  
**Director, A.M.C.**

**Chief of Party.**

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. 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

NOTES TO VERIFIER  
T-11803, Job PH-6625  
Boat Sheet H-8923 (HFP 742 10-3-66)

Please note Item 64 pertaining to notes on the boat sheet, and "pier ruins", Item 65, and the Comparison Print (pages 24 through 26).

THIS IS SAME TANK THAT WAS "PORT 1951"  
AS TOPO STATION.

THE POSITION IS THE SAME BUT HEIGHT DIFFERS SOME.  
FIELD EDIT PHOTO 46-S-1817 GAVE 176(199);  
FIELD EDITORS FORM 567 GAVE 174(193);  
THE 176(199) WAS DECIDED ON BY  
FINAL REVIEW BECAUSE THE GROUND  
THE TANK IS ON, IS ABOVE THE  
20 FT. CONTOUR. A NEW FORM 567  
WAS SUBMITTED.

△ GULFPORT MUNICIPAL WATER TANK 1958  
Steel ht = 176 (199)

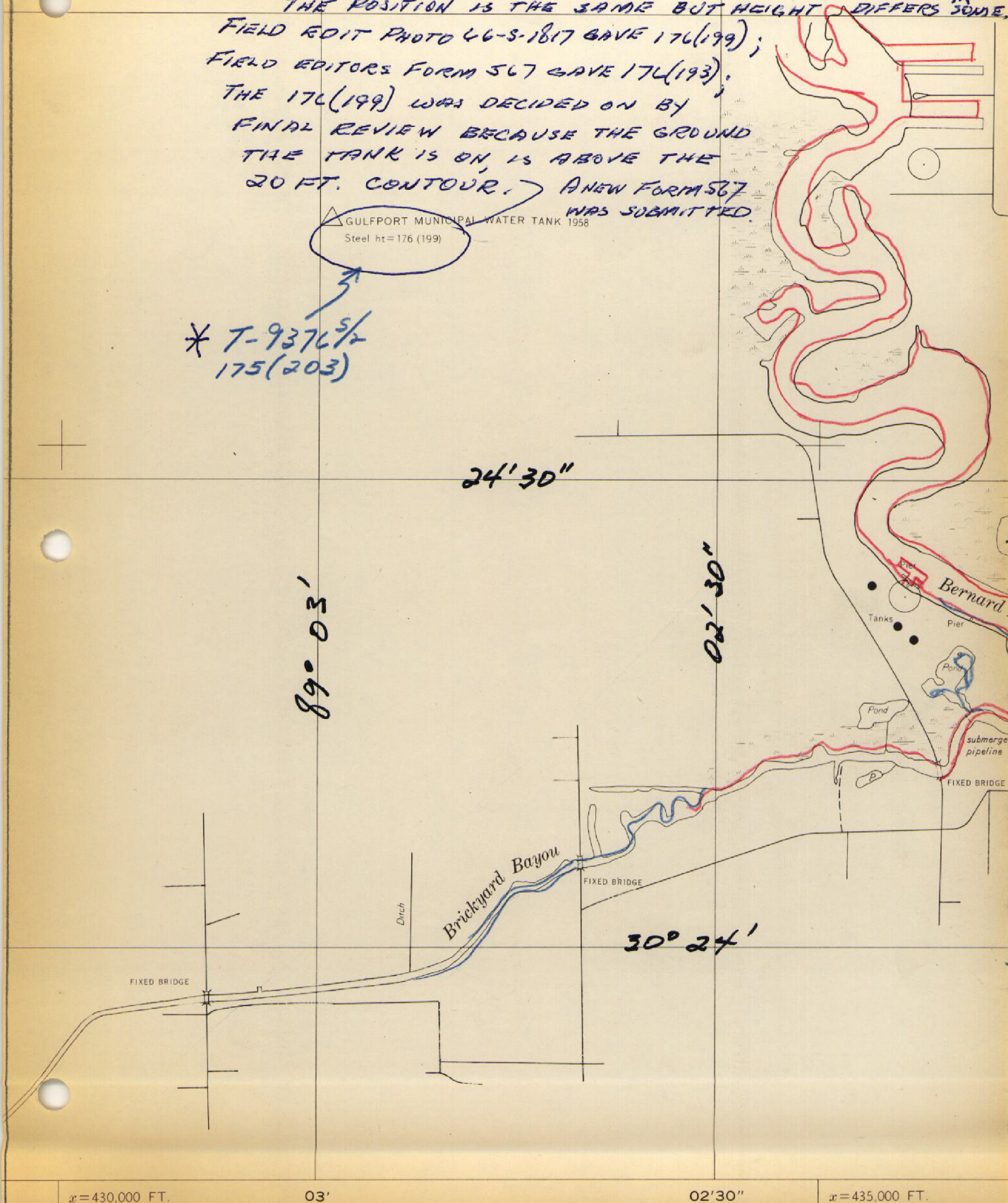
\* T-9376  $\frac{S}{L}$   
175(203)

24' 30"

89° 03'

02' 30"

30° 24'









UNAVAILABLE & CHANGE  
FENCILLED ON BOAT  
SHEET H 8923 BY  
HYDROGRAPHER

REVISED DURING  
FINAL REVIEW  
TO THIS

