

# 8586

Diag. Cht. No. 1266-2.

FORM C&GS-504

U.S. DEPARTMENT OF COMMERCE  
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION  
COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. ECFP-10-13-61 Office No. H-8586

### LOCALITY

State Alabama

General locality Mobile River

Locality Vicinity of Chickasaw

19 61

CHIEF OF PARTY

J. R. Plaggmier

LIBRARY & ARCHIVES

DATE 7-16-62

USCOMM-DC 37022-P66

# 8586

HWP

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

REGISTER NO. H-8586

Field No. ECFP-10-13-61

State ALABAMA

General locality RIVER  
MOBILE BAY

Locality VICINITY OF CHICKASAW  
MOBILE RIVER AND CHICKASAW BAY

Scale 1:10000 Date of survey 2 Feb. to 10 April 1961

Instructions dated 22/MEX, ECFP-2 18 Sept. 1959

Vessels Launch OS-183, and OS-1177

Chief of party LCDR John R. Plaggner, LCDR Steven L. Hollis

Surveyed by R. A. Lewis

Soundings taken by ~~fathometer~~, graphic recorder, hand lead, ~~and~~ soundings pole (12')

Fathograms scaled by Party personnel

Fathograms checked by Party personnel

Protracted by AMC Personnel

Soundings penciled by AMC Personnel

Soundings in ~~fathoms~~ feet at MLW ~~MLW~~

REMARKS:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DESCRIPTIVE REPORT  
TO ACCOMPANY

Hydrographic Survey H-8586 , Field No. ECFP 10-13-61  
Mobile River and Chickasaw Creek  
Mobile Bay , Alabama

PROJECT : OPR 410  
SURVEYED BY  
EAST COAST FIELD PARTY

SCALE : 1:10000  
R. A. LEWIS  
LCDR JOHN R. FLAGMIER, OFFICER IN CHARGE  
LCDR STEVEN L. HOLLIS , OFFICER IN CHARGE

A. PROJECT

Hydrography was executed under instructions No. 22/mek , ECFP-2 dated 18 September 1959 .

B. AREA SURVEYED

a portion

This survey includes ~~all~~ of the Mobile River , Chickasaw Creek , and adjoining creeks and bayous as far as they were passable between latitude 30° 44' 45'' and latitude 30° 46' 45'' .

Hydrography began 2 February 1961 and was completed on 10 April 1961 .

Junctions on this survey are made with contemporary surveys H-8585 (Field No. ECFP 05-2-61) scale 1:5000 on the south , H-8591 (Field No. ECFP 10-9-61) scale 1:10000 on the north , and on the east with H-8589 (Field No. ECFP 10-3-61) scale 1:10000 .

C. SOUNDING VESSELS

Launches CS183 and CS 1177 were used to obtain soundings .

Following is a list of vessels and identifying colors :

Launch CS 183	violet
Launch CS 1177	blue

D. SOUNDING EQUIPMENT

An EDO 255C #13 was used to obtain soundings on both launches .

Many soundings in depths of five feet and less were taken with a twelve foot sounding pole and so noted in the volume .

A bar check was taken daily to determine instrumental corrections to be applied to the fathometers . These corrections are tabulated in appendix "B", "Abstract of Corrections to Echo Soundings" , attached to this report .

E. SMOOTH SHEET

The smooth sheet projection was made by ruling machine in the Washington office .

(Note : Boat sheet was plotted at 1:5000 scale . Smooth sheet to be plotted at 1:10000 scale)

F. CONTROL

Horizontal control was obtained by the standard visual three point fix methods as described in the "Hydrographic Manual" .

Triangulation dated 1935 was performed by G. L. A.

Appendix "A" of this report contains a complete list of control used and the quality and source of the control .

G. SHORELINE

Shoreline was taken from manuscript T-10931 . No notable change in the shoreline was observed .

The low water line was not defined by soundings due to numerous snags and foul areas that extend along the banks of the river .

H. CROSSLINES

Crosslines were run to the extent of eight to ten percent of the regular system of sounding lines . Favorable crossings were found .

I. JUNCTIONS

The depths at the junctions with the surveys listed in section "B" are in agreement and depth curves can be adequately drawn at the junctions .

J. COMPARISON WITH PRIOR SURVEYS

There are no presurvey review items on this sheet .

A comparison was not made with prior survey Register No. H-737 , dated 1860 . The channel and shoreline have completely changed .

No prior surveys have been made of the Chickasaw Creek and adjoining streams by the Coast and Geodetic Survey .

K. COMPARISON WITH CHART

A comparison with chart 1266 , 16th Edition , January 30 , 1961 , indicates good agreement for the most part with this survey , with the exception that an island has now formed in Hog Bayou .

A wreck was located at the charted position of the wreck at latitude  $30^{\circ}45'11''$  , longitude  $88^{\circ}02'12''$  . The wreck is a steel hull ninety (90') feet long that bares five feet (5') at mean high water . The wreck lies parallel to the bank in the foul area of the river .

A stranded wreck was also located at latitude  $30^{\circ}45'13.5''$  , longitude  $88^{\circ}02'10.5''$  , position 73b , launch CS 1177 . The wreck is a wooden hull eighty feet (80') long that bares four feet (4') at mean high water . This wreck lies parallel to the river bank in the foul area of the river . The wreck is in ruins with only the timbers remaining

These wrecks do not constitute a hazard to navigation , but it is recommended that they be charted .

6 A wreck was also found at latitude  $30^{\circ}46'47.5''$  longitude  $88^{\circ}01' 39.0''$

10 meters on the port bow from position 40b , launch CS 1177 .

This wreck bares five feet (5') at mean high water . It is the remains of an old barge that is stranded .

This wreck does not constitute a danger to navigation , but it is recommended that it be charted .

L. ADEQUACY OF THE SURVEY

This survey is complete and is considered adequate to supercede prior surveys .

M. AIDS TO NAVIGATION

There is only one fixed aid to navigation and no floating aids within the limits of this survey .

AID NAME	LAT. & LONG.	DATE LOCATED	LIGHT LIST NO.
SPANISH RIVER LIGHT	30°46'15" 88°01'08"	1959	6672

All ranges in Chickasaw Creek have been discontinued and the structures are being removed .

One submarine cable is within the limits of this survey . The termini of the crossing are latitude 30°46'42" , longitude 88°03'25.8" and latitude 30°46'39.4" , longitude 88°03'28.5" . These termini are located by photogrammetric methods as signals ORB and LET .

N. STATISTICS

VESSEL	NO. OF POSITIONS	NAUTICAL MILES OF SOUNDINGS
Launch CS 183	116	11.7
Launch CS 1177	203	19.1
TOTALS	319	30.8

Total area surveyed : 0.90 square miles

One tide station was used for control of the entire survey . This was a portable automatic tide gage located at the Alabama State Docks , Mobile , Alabama . Data for reduction of the soundings was taken directly from the station's records without time or range corrections . See appendix "C" "Tidal Note " for additional information .

Eleven (11) bottom samples were taken on this sheet .

There were no current observations within the limits of this survey .

Submitted by ,

*Harry W. Floyd*  
Harry W. Floyd  
ENS , C&GS

APPENDIX D

APPROVAL SHEET TO ACCOMPANY

Hydrographic Sheet H-8586 (Field No. MCFP 10-13-61)  
Project OPR 410

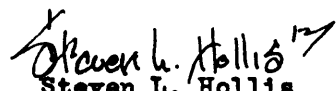
The records , corrections , and all field work was supervised by  
LCDR John R. Flaggmier .

All office work was supervised by LCDR Steven L. Hollis , Jr.

The Descriptive Report was written by ENS Harry W. Floyd .

The report and records for this survey are complete and adequate  
to the best of my knowledge .

Approved and forwarded ,

  
Steven L. Hollis , Jr .  
LCDR , C&GS  
Officer In Charge

APPENDIX A

LIST OF SIGNALS  
Hydrographic Sheet H-8586 (ECFP-10-13-61)

TRIANGULATION STATIONS

\* CHIC CHICKASAW TANK , 1935

KRAF SOUTHERN KRAFT PAPER COMPANY TANK , 1935

\*Station CHIC was plotted on a dog ear to run hydro on 1:5000 boat sheet ,  
smooth sheet will be plotted on a 1:10000 sheet and no dog ear will be  
necessary .

TOPOGRAPHIC STATIONS

From Topographic Sheet B<sub>b</sub>

LIT  
NEO  
PAP

\* SIGNALS LOCATED BY THEODOLITE CUTS

CRY PRO  
FEW RAG  
LAD

\*Above signals were located by theodolite cuts and plotted on manuscript T-10931 .

PHOTO-HYDRO SIGNALS

		Manuscript T-10931					
* AIM	CUE	GUM	LET	OAK	TAP	YAK	
* ALP	**DUD	HEX	MAN	**ORB	VEX	ZOO	
**AZO	EBB	JAP	MID	RIV	WAX		
**BAH	ERG	KEY	*NIX	TAN	WEE		

\*Signal ALP and NIX are the same signal . This signal was originally located by  
sextant and later located by photogrammetric methods and plotted on manuscript  
T-10931 .

\*\*Signals AZO , BAH , DUD , and ORB were hydrographic signals on the boatsheet .  
They were later located by photogrammetric means and plotted on manuscript T-10931 .  
The hydrographic locations of the above named signals were used to run the  
hydrography , but the photogrammetric locations of the signals should be used  
to smooth plot this sheet .

HYDROGRAPHIC SIGNALS

Hydrographic signal IRK was located and plotted on manuscript T -10931 .

APPENDIX B  
 ABSTRACT OF CORRECTIONS TO ECHO SOUNDINGS

Hydrographic Survey H-8586  
 Project OPR-410  
 East Coast Field Party

Field No. ECFP 10-13-61  
 Mobile Bay , Alabama  
 1960-61 Field Season

<u>VESSEL</u>	<u>DAY&amp;DATE</u>	<u>RECORDER NO.</u>	<u>FATH. DEPTH (ft.)</u>	<u>CORR. (ft.)</u>
Lch . CS-183	a 2/2/61	EDO 255C #13	0.0-13.0	0.0
			13.1-15.0	-0.2
			15.1-17.0	-0.4
			17.1-19.0	-0.6
			19.1-22.0	-0.4
			22.1-26.0	-0.2
			26.1-31.0	0.0
			31.1-34.0	+0.2
			34.1-deeper	+0.4
Lch . CS-1177	a 4/7/61	EDO 255C #13	0.0-15.0	-0.6
	b 4/10/61		15.1-19.0	-0.4
			19.1-22.0	-0.2
			22.1-25.0	0.0
			25.1-36.0	+0.2
			36.1-deeper	0.0



APPENDIX C

TIDAL NOTE

Gage Location :

Mobile River , Mobile , Alabama  
Lat.  $30^{\circ} - 42.45'$  N  
Long.  $88^{\circ} - 02.6'$  W

Gage Type :

Portable Automatic

Staff :

Vitrified scale - MLW  
corresponds to 2.4' on staff

Correction:

NONE

90th meridan time was used at this station .

GEOGRAPHIC NAMES  
Survey No. H-8586

Name on Survey	<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">On Chart No. 1266</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">On previous survey No.</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">On U. S. quadrangle Maps</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">From local information</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">On local Maps</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">P. O. Guide or Map</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Rand McNally Atlas</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">U. S. Light List</div> </div>										K <i>B&amp;W</i>
	A	B	C	D	E	F	G	H	K		
Bear Creek	x										1
Black Bayou	x										2
Blakeley Island	x										3
Chickasaw Creek	x									x	4
Duck Lake	x										5
Greenwood Bayou	x										6
Hog Bayou	x										7
Little Bayou				x							8
Mobile River	x										9
Round Island	x										10
St. Louis Point	x										11
Shell Bayou	x										12
Spanish River	x										13
											14
<sup>RNC</sup> Chickasaw	x										15
											16
											17
											18
											19
											20
											21
											22
											23
											24
											25
											26
											27

Geographic Names Section  
6 Sept. 1962



TIDE NOTE FOR HYDROGRAPHIC SHEET

~~Division of Coastal Surveys~~

September 27, 1962

Division of Charts: R. H. Carstens

Plane of reference approved in  
2 volumes of sounding records for

HYDROGRAPHIC SHEET 8586

Locality Mobile Bay, Alabama

Chief of Party: J. R. Plaggmier (1961)  
Plane of reference is mean low water reading  
2.4 ft. on tide staff at Mobile River  
10.8 ft. below B. M. No. 1 (1960)

Height of mean high water above plane of reference is 1.5 ft.

Condition of records satisfactory except as noted below:

J. M. Symons  
Chief, Tides & Currents Branch

~~Chief, Division of Tides and Currents~~

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. 8586

Records accompanying survey: Smooth sheets 1;  
 boat sheets 1; sounding vols. 2; wire drag vols. ....;  
 Descriptive Reports 1; graphic recorder envelopes 2;  
 special reports, etc. ....  
 .....

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet		<u>319</u>
Number of positions checked		<u>30</u>
Number of positions revised		<u>0</u>
Number of soundings revised (refers to depth only)		<u>5</u>
Number of soundings erroneously spaced		<u>0</u>
Number of signals erroneously plotted or transferred		<u>0</u>
Topographic details	Time	<u>1</u>
Junctions	Time	<u>1</u>
Verification of soundings from graphic record	Time	<u>1</u>
Special adjustments	Time	<u>0</u>

Verification by Alvis M. Taylor Total time 5.6 hrs Date 5/11/67

Reviewed by J.R. Baumgardner Time 4.8 hrs Date 12 Sept 72

Insp by R.H. Carstens 9 hr 5/29/73

OFFICE OF MARINE SURVEYS AND MAPS

MARINE CHART DIVISION

HYDROGRAPHIC SURVEY REVIEW

REGISTRY NO. H-8586

FIELD NO. ECFP-10-13-61

Alabama, Mobile River, Vicinity of Chickasaw

SURVEYED: February 2, 1961 through April 10, 1961

SCALE: 1:10,000

PROJECT NO.: OPR-410

SOUNDINGS: EDO 255c Depth Recorder,  
Pole Soundings

CONTROL: Sextant fixes  
on shore signals

Chief of Party .....	J. R. Plaggmier
.....	S. L. Hollis, Jr.
Surveyed by .....	R. A. Lewis
Protracted at .....	Atlantic Marine Center
Soundings plotted at .....	Atlantic Marine Center
Verified and inked by .....	D. M. Taylor
Reviewed by .....	S. R. Baumgardner
.....	Date: September 12, 1972
Inspected by .....	R. H. Carstens

1. Description of the Area

The survey covers Chickasaw Creek, its tributaries and a portion of Mobile River. A Federal Project Channel leading to a dock facility is located within Chickasaw Creek. The predominate bottom characteristic is mud. In Mobile River the bottom is generally smooth but there are foul areas along the shore.

2. Control and Shoreline

The origin of control is adequately covered in part F of the Descriptive Report.

The shoreline originates with reviewed photogrammetric manuscripts T-10930, T-10931, and T-10933 of 1957-61.

3. Hydrography

A. Depths at crossings are in good agreement.

B. The usual depth curves were adequately delineated except in the pier slips located on Chickasaw Creek where barges were moored and in some foul inshore areas.

C. The development of the bottom configuration and the investigation of least depths are considered adequate.

#### 4. Condition of the Survey

The sounding records, smooth plotting, and Descriptive Report are adequate and conform to the requirements of the Hydrographic Manual with the exception that times of soundings between fixes were not recorded.

#### 5. Junctions

Adequate junctions were made with H-8585 (1961) on the south and H-8589 (1961) and H-8591 (1961) on the northeast.

#### 6. Comparison with Prior Surveys

##### H-737 (1870), 1:10,000

This prior survey covers the portion of Mobile River common to the present survey. A comparison reveals a variable deepening of the river channel of two to five feet. The present survey is adequate to supersede the prior survey in the common area.

#### 7. Comparison with Chart 1266 (latest print date September 4, 1971)

##### A. Hydrography

Most of the charted hydrography originates from the partial application of depths from the boat sheet and unverified smooth sheet of the present survey. Only minor differences are noted with present depths. Hydrography was also taken from the U.S. Corps of Engineers Surveys of 1946 and 1967 respectively (Bp 44843-44, 71883). The present survey is adequate to supersede soundings charted from Bp 44843-44 in the common area except in inshore areas not covered by the present survey. Soundings charted from Bp 71883 are subsequent to the present survey and should be retained on the chart.

##### B. Controlling Depths

The charted controlling depth notes of the Chickasaw River Channel are based on data furnished by the U.S. Corps of Engineers subsequent to the date of the present survey and supersede present survey information.

C. Aids to Navigation

The aids to navigation on the present survey are in substantial agreement with the chart and adequately serve the purpose intended with the following exceptions:

1. Chickasaw Channel range B front and rear lights, and range C front and rear lights located on the present survey at lat.  $30^{\circ}45.55'$ , long.  $88^{\circ}02.85'$ , lat.  $30^{\circ}45.80'$ , long.  $88^{\circ}02.82'$ , lat.  $30^{\circ}45.85'$ , long.  $88^{\circ}02.97'$ , and lat.  $30^{\circ}45.97'$ , long.  $88^{\circ}03.00'$  were removed subsequent to the date of the present survey and are reported in Notice to Mariners 17 of 1961.

2. Mobile River Buoys C"1" and C"3" charted in lat.  $30^{\circ}45.40'$ , long.  $88^{\circ}02.10'$  and lat.  $30^{\circ}45.95'$ , long.  $88^{\circ}01.80'$  originated with Chart Letter 3 of 1970 subsequent to the date of the present survey.

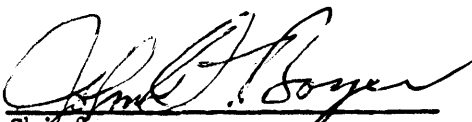
8. Compliance with Project Instructions

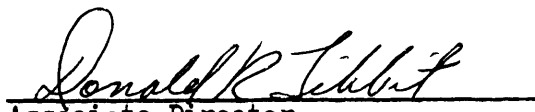
The survey adequately complies with the project instructions.

9. Additional Field Work

This is a good basic survey and no additional hydrography is necessary.

Examined and Approved:

  
 Chief,  
 Marine Chart Division

  
 Associate Director,  
 Office of Marine Surveys and Maps

H-8586

Items for Future Presurvey Review

This survey covers a portion of Chickasaw Creek which is largely a Federal Channel project and a portion of Mobile River which has deepened slightly.

Position index - lat. 304, long. 0881

Bottom change index - 3

Use change index - 5

Resurvey cycle - 25 yrs.



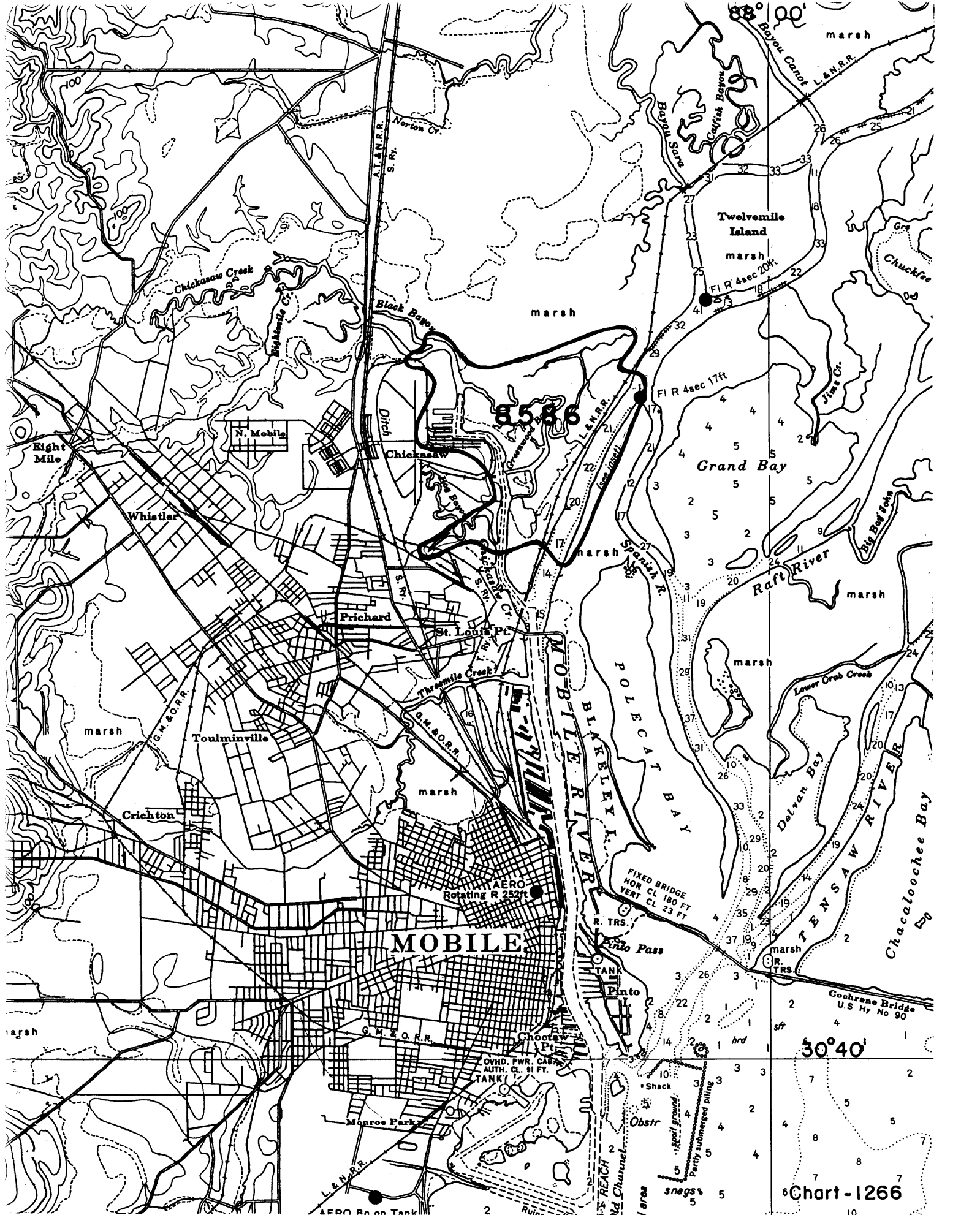


Chart - 1266

