

# 8381

# 8381

Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	Air Photo. Compilation
Field No.	Office No. T-8381
LOCALITY	
State	Florida
General locality	Tampa
Locality	Drew Field Gandy Bridge Quad.
1943	
CHIEF OF PARTY	
Lieut. Comdr. Kenneth G. Crosby	
LIBRARY & ARCHIVES	
DATE	December 9, 1946

## DATA RECORD

T-8381

Quadrangle (II): *Gandy Bridge*  
Name not assigned

Project No. (II): CS 290 A

Field Office: 1101 E. Broadway Chief of Party: Ray L. Schoppe  
Tampa, Florida

Compilation Office: " Chief of Party: K. G. Crosby

Instructions dated (II III):  
November 16, 1942Copy filed in Descriptive  
Report No. T- (VI)Completed survey received in office: *3/43*Reported to Nautical Chart Section: *1/45*Reviewed: *6/4/43* Applied to chart No. Date:Redrafting Completed: *9/16/43*Registered: *12/46* Published: 1944Compilation Scale: 1:20,000 Published Scale: *1:31,680*

Scale Factor (III): 1.00

Geographic Datum (III): N.A.1927 Datum Plane (III): M.S.L.

Reference Station (III): Cypress, 1934

Lat.:  $27^{\circ} 57' 07''$ .188 (221.3 m) Long.:  $82^{\circ} 32' 03''$ .564 (97.4 m) Adjusted  
~~unadjusted~~

State Plane Coordinates (VI):

*Florida plane coordinates - West zone*x = *327,498.20* y = *1,315,573.52*

Military Grid Zone (VI) "B"

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
See descriptive reports for sheets T-5822, T-5828, T-5834, and T-5835 (Project H. T. 242).				

Tide from (III): Bayview, Old Tampa Bay, Florida

Mean Range: 1.8 feet                      Spring Range: 2.4 feet

Camera: (Kind or source) U.S.C.&G.S. Nine-lens ( $8\frac{1}{2}$  inch focal length)

Field Inspection by: See descriptive reports (H.T.242)    date: Dec. 1942

Field Edit by: Clarence C. Fryer, Sr. Photo. Aid                      date: Mar-Apr. 1943

Date of Mean High-Water Line Location (III): December 1939

Red-line celluloid print

~~Projection and orientation~~ by (III) Washington office    date: Dec., 1942

"                      "                      checked by:                      "                      "                      date:                      "                      "

Control plotted by: Project H. T. 242                      date:

Control checked by: "                      "                      "                      date:

Radial Plot by:                      "                      "                      "                      date:

Corrected

~~Checked~~ by: Milton M. Slaveney, Principal Engr. Drafts-  
man                      date: Jan-Mar. 1943

Red-line celluloid print

Reviewed in compilation office by:                      date: April 1943

James H. S. Billmyer, Assistant Photogrammetric Engineer

Elevations on Field Edit Sheet  
checked by:

date:

STATISTICS (III)

Land Area (Sq. Statute Miles): 26.0 miles (previously reported)

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

Shoreline (Less than 200 meters to opposite shore): "

Number of Recoverable Topographic Stations established: "

Number of Temporary Hydrographic Stations located by radial plot:

Leveling (to control contours) - miles: 33 miles

Roman numerals indicate whether the item is to be entered by, (II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname and initials (not initials only).

Remarks:

## General Procedure in the Production of Topographic Quadrangles for the War Department

This quadrangle, together with similar adjoining maps produced under Project C.S. 290-A, was prepared by the Coast and Geodetic Survey for the War Department under "General Specifications for War Department Mapping Program" issued about December 1941, in which is incorporated the "Standard of Accuracy for a National Map Production Program" issued by the Bureau of the Budget under date of June 10, 1941.

The general procedure in the production of this and the adjoining quadrangles was:

### PREPARATION OF BASE MAPS

Assembly into quadrangle base sheets by photographic means of previously produced planimetric maps of the area. These maps were compiled by this Bureau from aerial photographs taken in 1939 and were published in 1945 on the scale of 1:10,000. Lithographic prints of the base sheets on cloth-mounted paper were furnished to the field parties and similar prints in red ink on celluloid were furnished to the compilation office.

### FIELD SURVEYS

No new photography was used in the preparation of this map.

Contouring and revision of the planimetric details were accomplished by planetable methods. The completed field sheets were then transmitted to the Tampa Photogrammetric Office where contours and corrections to planimetry were transferred to the red print on celluloid, which constituted the manuscript.

Accuracy Tests - Application of systematic horizontal and vertical accuracy tests to check the maps for conformity with the specifications. These tests consisted of comparison of the map position and elevation of selected random points with the true position and elevation as independently determined by standard survey methods.

## PROCESSING IN THE WASHINGTON OFFICE

Review - Examination of the manuscript for accuracy and completeness of compilation and compliance with specifications, correcting where necessary; addition of military and state grids and other special features; and verification of the general adequacy of the manuscript as a basis for the production of a finished map.

Drafting and Reproduction - Preparation of smooth color separation drawings on 1:20,000 scale on metal-mounted "blue-line" copies of the manuscript. From these drawings, negatives and printing plates were prepared for reproduction of the finished map on the scale of 1:31,680 or 1:25,000.

*By Jones*

## FIELD INSPECTION AND FIELD EDIT REPORT

### QUADRANGLE T-8381

The field work for quadrangle T-8381 was accomplished on a base sheet compiled in the Tampa office from existing planimetric maps, numbers T-5834, T-5835, T-5828, and T-5822. In accordance with instructions, therefore, items 1 through 4 on the descriptive report have been omitted.

5. The work performed on levels for this quadrangle may be found on Photographs #4107 and 4108. Six days were used to complete this work, in which a total of approximately 33 miles of level lines was completed, checked, and inked on these photographs.

The average error of closure for these lines was 0.24 of a foot.

6. Refer to report on quadrangle T-8385. No contours were run within a portion of Drew Field. The contours in this area, however, were obtained from the U. S. Engineers Department at Drew Field and should be added by the Compilation office.

All streams and ponds not shown on the compilation are marked on the photographs. Drainage ditches are similarly treated, although small ditches and ditches along the roads are not marked. Additions and corrections are also marked on the compilation.

In one small wooded area where the stream could not be traced on the photograph, it was traced by the planetable and by remeasurements from the edge of the woods, and was marked on the photograph.

7. There is no data for this item.
8. No information is available for this subject.
9. There are no wharves of any importance within the limits of this quadrangle.

New fills located just south of the Gandy Bridge in Old Tampa Bay, which show on the photographs but not on the compilation, were put in with the planetable. A proposed channel in this locality is marked by dashed lines, and the proposed completed bulkhead line around the fills is also shown.

A slight change was also noted among the small piers just to the north of the above-mentioned fills. These changes are also marked on the compilation field edit sheet.

10. There are no off-shore details of importance.
11. Three range beacons in Old Tampa Bay, just south of the eastern end of the Gandy Bridge, were checked by the planetable and were found to be correctly plotted on the compilation.
12. No hydrographic control for this quadrangle is present.
13. There are two (2) landing fields within the limits of this quadrangle. Drew Field is an Army Air Base. The Interbay airport has been abandoned.

Drew Field, a large army air training center, occupies much of the northern portion of the quadrangle. This large airport is, at present, used solely for military purposes. Details with reference to the air base are covered in other parts of this report.

14. All roads have been classified according to special instructions

dated January 12, 1942. All roads which exceed 40 feet in width have been marked on the field edit sheet. Roads which are not shown on the compilation, but which are shown on the photograph, are indicated on the photograph. All streets within the urban and sub-urban limits of Tampa and all streets within Drew Field are to be classified as Road 2, unless otherwise marked. All roads and streets in Drew Field are correct on the photograph. The names of all major streets and roads are indicated.

15. All bridges have been classified according to special instructions.

16. All buildings that are of material value have been shown. Those of no value have been deleted. All public buildings are shown with the proper symbol.

17. The limits of Drew Field were obtained from the office of the U. S. Engineers Department at Drew Field, and should be put in by the compilation office.

All political boundary lines as shown are plotted from a map secured from the County Assessor's office. The county line between Pinellas and Hillsborough counties will be only an approximate location. Some time in the past, the question of the actual line of division between the two above-mentioned counties was brought to the attention of the Florida State Legislature. By a resolution adopted by the State Legislature, the division or county line was legally established as being a line traversing approximately north and south through Tampa Bay and Old Tampa Bay, this line being equidistant from each shore of the two above-mentioned bays.

No survey has been made to comply with this resolution. The existing division or county line as shown is only approximate, and was established by projecting the line from a known point on land at the north end of Old Tampa Bay southward through the bay. By this method, the county line must necessarily be considered as an approximation.

18. There is no information for this item.

19. No contour crosses the southern boundary of the quadrangle. However, the junction of road and vegetation classification with quadrangle 8386 to the south was checked.

20. See report on quadrangle 8385.

46. It was agreed that the Air Photographic Party #1 would bring this quadrangle to date by using the new 1:20000 photographs. This would include the addition of Drew Field and numerous homes and buildings which were omitted when the compilation was originally made.

However, when Mr. Slavney was making these additions and corrections, he found that he could not add the buildings in Beach Park, as they were obscured by trees. Mr. Gillerman field-inspected the area at the time he was contouring. After the compilation party had completed their corrections, an ozalid print was made of the quadrangle. This work, the field edit on the ozalid print, was done by Mr. Fryer. This report includes the reports of both Mr. Gillerman and of Mr. Fryer.

Additions, deletions, and corrections were made on both the field edit sheet and on the photographs. In general, features

which were not marked on the compilation, but which showed on the photographs, were marked on the field edit sheet providing this could be done accurately. If not, they were indicated on the photograph. Features not present on the photographs were marked either on the field edit sheet or on the photograph, whichever could be done most accurately. All vegetation classification is marked on the photograph, as indicated in paragraph 20 above. Both the field edit sheet and the photograph were inked, and also the compilation sheet. All drainage is shown in blue on the photograph and cultural features and vegetation are shown in red. On the red-line field edit sheet, drainage is shown in blue and all cultural features in black. Contours are shown in brown on the contour sheet. Deletions are indicated by x's of an appropriate color.

The field edit of this quadrangle was made by visual inspection of the entire area. This field edit was made on an ozalid print, and all additions and deletions were made in red pencil by Mr. Fryer.

47. The compilation was complete in all respects, except for the fact that many private dwellings had to be added. The area covered by Drew Field Army Air Base is being constantly enlarged, but the compilation may be considered complete as of March 31. The position of all detail appears to be within the limits of accuracy.

48. The vertical accuracy test for this sheet was run by Charles Hanavich, Principal Photogrammetric Aid. The section of the 20-foot contour tested on this sheet is within the required limits of

accuracy as set forth in the instructions, and 5-foot contours can be added at a later date. This test contour is shown on the sheet by yellow lines connected to black dots; the black dots indicate the elevations on the contour ascertained in the field. The test contour was run independent of this topographic sheet on a copy of the map assembly and then transferred to this sheet and checked.

No horizontal accuracy test was run on this quadrangle. Refer to the descriptive report for quadrangle T-8375 when submitted.

The levels for this quadrangle were run by Mr. James M. Grover, Photogrammetric Aid, and the portion of this report which deals with that subject was written by Mr. Grover.

The field inspection and contouring for this quadrangle and the report pertaining thereto were accomplished by Mr. Elliot Gillerman, Junior Topographic Engineer.

The final field edit for this quadrangle was accomplished by Mr. Clarence C. Fryer, Senior Photogrammetric Aid, and Mr. Fryer wrote the portion of this report pertaining to field edit.

Respectfully submitted,

*Clarence C. Fryer*  
Clarence C. Fryer  
Sr. Photo. Aid

Approved 4/26/43

*Ray L. Schoppe*  
Ray L. Schoppe  
Chief of Party  
WMFP#2

DESCRIPTIVE REPORT  
for  
Quadrangle No. T-8381

Quadrangle T-8381 is a 1:20,000 scale combination of portions of planimetric maps T-5822, T-5828, T-5834, and T-5835; all originally compiled on 1:10,000 scale. All the revisions and additions to the original compilations are made in black acid ink.

The additions and changes on this quadrangle are the result of 1:20,000 scale nine-lens aerial photographs taken November 12, 1942; plans of the Drew Field Military Reservation were received from and returned to the Corps of Engineers to bring the detailing to date as of February 1943; levels, contour lines, road and vegetation classification was done by War Mapping Party No. 2, Commander Ray L. Schoppe, Chief of Party.

The change evident in Davis Causeway was made to correct an error in the junction of original 1:10,000 planimetric compilations of Sheets T-5822 and T-5834.

The limits of urban areas were established by agreement of Commander Ray L. Schoppe and Lieut. Comdr. Kenneth G. Crosby, Chiefs of Party of War Mapping Party No. 2 and Air Photographic Party No. 1 respectively, in accordance with instructions of the U. S. Geological Survey concerning density of buildings in areas to be designated as urban.

The political subdivisions shown on the overlay were taken from a county map obtained from Hillsborough County Tax Assessor by members of War Mapping Party No. 2. The Hillsborough-Pinellas County Line was taken from a small scale map as accurately as possible but is subject to further check.

This compilation does not have an official quadrangle name. Therefore the following names are in accordance with instructions, submitted to the Board on Geographic Names by Commander Ray L. Schoppe, Chief of Party, War Mapping Party No. 2 and Lieut. Comdr. K. G. Crosby, Chief of Party, Air Photographic Party No. 1.

Drew or Drew Field - large military reservation and most prominent single unit in the quadrangle.

Gandy Bridge - well known toll bridge over Old Tampa Bay and almost entirely within the limits of this quadrangle.

Rattlesnake - the only post office in the quadrangle.

Secret military installations have been omitted from the map drawing in accordance with instructions in a letter from the Director, No. 28 FFA-1990, dated February 15, 1943.

Additional construction is planned for Drew Field, therefore, it is noted that the sheet is complete as of February 1943. It should be noted that as some of the work shown on the Drew Field Area is at present being completed it has of necessity been impossible to verify plans

*See also last page - revision report.*

furnished us by the Corps of Engineers at Drew Field by actual field inspection.

Respectfully submitted,•

*Milton M. Slavney*

Milton M. Slavney,  
Prin. Engr. Draftsman

Forwarded by:

*Kenneth G. Crosby*

Kenneth G. Crosby,  
Chief of Party...

## BRIDGE AND TUNNEL CLASSIFICATION

<u>First Symbol</u>	<u>One Lane</u>	<u>Unlimited</u>
Capacity	5 m.p.h.	
A	50 tons	25 tons
B	25 tons	18 tons
C	18 tons	13 tons
D	10 tons	7 tons
E	6 tons	4 tons
F	Light vehicles only	

### Second Symbol

Vertical Clearance	A - over 14 feet
	B - over 13 feet
	C - over 12 feet
	D - over 11 feet, etc.

### Third Symbol

Horizontal Clearance	A - over 18 feet
	B - over 17 feet
	C - over 16 feet
	D - over 15 feet, etc.

Fourth Symbol - Year of Classification.

LANDMARKS FOR CHARTS  
Tampa Photogrammetric Office  
Tampa, Florida  
Feb. 1, 1944

TO BE CHARTED  
~~TO BE DELETED~~ } STRIKE OUT ONE


The positions given have been checked after listing.

**Kenneth G. Crosby** *Chief of Party*

[illegible]

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." 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 old survey sheets. Information under each column heading should be given.

T. 838I  
No. I

	Remarks	Decisions
1		278 825
2		"
3		"
4		"
5	<i>on Port Tampa Quad</i> 	278 826
6		"
7		279 825
8		"
9		"
10		"
11		"
12		"
13		"
14		"
15		"
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21		"
22		"
23		"
24		"
24		"
25		"
26		279 826
27		

# GEOGRAPHIC NAMES

Survey No. T. 838I

No. I. "Drew Field."

Name on Survey

	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	
A	B	C	D	E	F	G	H	K	
<u>Interbay Airport</u>	✓								1
<u>Rattlesnake</u>	✓								2
<u>Gandy Bridge</u>	✓								3
<del>Old Tampa Bay</del>	✓								4
<u>South Gandy Channel</u>	X								5
<u>North Gandy Channel</u>	X								6
<u>Mile Hammock</u>	✓								7
<u>Bel Mar</u>	✓								8
<u>Gun Branch</u>	✓								9
<u>John Branch</u>	✓								10
<u>Sunset Park</u>	✓								11
<u>Sunset Beach</u>	✓								12
<u>Culbreath Bayou</u>	✓								13
<u>Beach Park</u>	✓								14
<u>Old Tampa Bay</u>	✓								15
<u>Fish Creek</u>	✓								16
<u>Macfarlane Park</u>	X								17
<u>Drew Field</u>	✓								18
<u>Airport Golf Course,</u>	✓								19
<u>Rocky Point Golf Course</u>	✓								20
<u>Sweetwater Creek</u>	✓								21
<u>Rocky Point</u>	✓								22
<u>Woods Creek</u>	✓								23
<u>Davis Causeway</u>	✓								24
<u>The Pond</u>	✓								24a
<u>Rocky Creek</u>	✓								25
<u>Dick Creek</u>	✓								26
<u>Double Bayou</u>	✓								27

T.838I

Remarks

Decisions No. 2

1		279 826
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3		U.S.G.B.
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# GEOGRAPHIC NAMES

Survey No. T.8381

No. 2

Name on Survey

	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	
A	B	C	D	E	F	G	H	K	
<u>Cabbagehead Bayou</u>	✓								1
									2
<u>Hillsborough County</u>	✓								3
<u>Pinellas County</u>	✓								4
<u>Florida State Highway 17</u>	✓								5
<u>U.S. 92</u>	✓								6
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Names underlined in red approved  
by W. F. H. on 7.22-43

## NAUTICAL CHARTS BRANCH

SURVEY NO. *T-8381*

### Record of Application to Charts

[illegible]

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

## RECORDS

Between January, 1942 and July, 1944, this Bureau completed 323 quadrangles. These maps have been published, or are in the process of being published on scales of 1:31,680 or 1:25,000. This series of quadrangles includes a land area of approximately 15,000 square miles. Incident to this work, a considerable volume of survey records and data has accumulated which will be filed for future reference. This material is filed as follows:

### Registered and Filed in the Vault

Cloth-mounted copy of the published quadrangle.

published quadrangle at 1:20,000 scale  
Black and white cloth-mounted copy of the ~~map~~  
~~manuscript~~. This copy is filed to preserve  
original survey detail shown on the manuscript  
at 1:20,000 scale which may not have been shown  
on the published sheet. For ~~political boundaries,~~  
~~woodland, marsh, and swamp limits,~~ refer to the  
published quadrangle for the finally adopted  
~~positions.~~ outlines.

Descriptive Report.

Division.

Filed in the Photogrammetric Section — Surveys Branch

Field inspection photographs.

Contoured photographs (on which planetable contouring work was performed.)

Field edit sheet.

Descriptions of recoverable topographic stations (Form 524), filed in Reviewing Unit Section.

Supplementary traverse and level records.

Field notes, computations, lists of positions, and tabulations of results of horizontal and vertical accuracy tests.

Reproduction proof.

Correction sheet (copy of quadrangle showing in red changes to be made when next printed.)

Check lists of work performed on each sheet in the Washington Office during review, drafting, edit, and reproduction.

Original celluloid manuscript.

Copies of specifications and all instructions to field parties and field offices.

Filed in Reproduction Branch

Glass negatives of the color separation drawings.

Filed in the Library

~~Special report on field work by Commander K. T. Adams, 1944.~~

Special report on office work by B. G. Jones, 1944.

Season's report on field work by Commander F. L. Gallen, 1944.

Season's report on field work by Commander R. L. Schoppe, 1944.

Delivered to the Army Map Service in accordance with the contract

Film negatives and film positives of the color separation drawings.

All color separation drawings.

~~Original celluloid manuscript.~~

A correction sheet consisting of a copy of the first edition of the quadrangle with notes in red indicating changes desirable at the next printing.

## DIVISION OF CHARTS

### SURVEYS BRANCH

#### REVIEW OF AIR PHOTOGRAPHIC SURVEY T-8381

#### GANDY BRIDGE QUADRANGLE

This quadrangle manuscript has been examined for completeness, accuracy, and conformity with the specifications. It is adequate for smooth drafting, reproduction and publication. Revisions found to be necessary in this office are discussed on the next page.

#### Horizontal and Vertical Accuracy

The nearest horizontal accuracy test was run in quadrangle T-8382.

A vertical accuracy test was run in this quadrangle and found to be satisfactory. See Item 48 in the combined Field Inspection and Field Edit Report enclosed in this Descriptive Report.

#### Previous Surveys

This manuscript has been compared with the following previous topographic surveys of this Bureau and other agencies. This map is satisfactory to supersede the previous surveys over the common area.

T-1409a		
T-1409b	1:20,000	1895
T-4184	1:20,000	1926
T-4185	1:20,000	1926

#### Comparison with Nautical Charts Nos. 587

The manuscript has not been applied to the charts at the date of this review. The following comments are pertinent to the compilation and correction of nautical charts:

T-8381 has been applied to chart 587 since review.

The following revisions of the map manuscript were found to be necessary and were accomplished as a part of this review:

Only changes of a minor nature were necessary during the review of this map manuscript.

Note

Since review and publication of this quadrangle, details of Drew Field have been corrected as shown in red on the file copy. No record was made regarding these corrections but they were apparently made about May 1944 to show conditions of the field as of about January 1944 when an airport survey was made.

Reviewed June 4, 1943 By Peter Kerr  
under direction of D. H. Benson (per D.M.)

Inspected by B. G. Jones B.G. Jones 11/46

Examined and approved:

K.T. Adams

Chief, ~~Survey Branch~~  
Division of Photogrammetry

Chief, Topography Section

H. Edmonston  
Asst. Chief, ~~Div. of Charts~~  
Nautical Chart Branch

Raymond E. Gorman  
Chief, Div. of Coastal  
Surveys