

8372

Diag'd. in pencil on Special Diag. Ch. No. 1007

8372

Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	Topographic
Field No. T-8372	Office No.
LOCALITY	
State	Florida
General locality	Tampa Bay
Locality	Plant City
194 3	
CHIEF OF PARTY	
Ray L. Schoppe - Field	
Kenneth G. Crosby - Compilation.	
LIBRARY & ARCHIVES	
DATE	Sept 25 - 1946

DATA RECORD

T- 8372

Quadrangle (II): Plant City

Project No. (II): CS 290 B

Field Office: 1101 E. Broadway
Tampa, Florida

Chief of Party: Ray L. Schoppe

Compilation Office: "

Chief of Party: K. G. Crosby

Instructions dated (II III):
Nov. 16, 1942Copy filed in Descriptive
Report No. T- (VI)

Completed survey received in office: 12/3/43

Reported to Nautical Chart Section: 12/4/43

Reviewed: 4/26/44 Applied to chart No. Date:

Redrafting Completed: 6/8/44

Registered: Published: 1944

Compilation 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. 1929

Reference Station (III): Griffin, 1937

Lat.: 28°04' 48."762 (1501.0m) Long.: 82°06' 30."960 (845.3m) Adjusted
UnadjustedState Plane Coordinates (VI): *not computed*

X =

Y =

Military Grid Zone (VI)

Zone B

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
11807	11/13/43	----	1:20,000	Inshore Sheet
11808	"	----	"	"
11809	"	----	"	"
11803				"
11805				"
11818				"
11817				"

Tide from (III): ----

Mean Range: ----

Spring Range: ----

Camera: (Kind or source) U. S. C. & G. S. Nine Lens

Field Inspection by: J. W. Stingley
Jr. Topo. Engineer

date: May, 1943

Field Edit by:

date:

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

Projection and Grids ruled by (III) B.R.C. and F.E.B. date: 4/22/43

" " " checked by: B.R.C.

date: "

Control plotted by: B.R. Finch, Jr. Engr. Draft.

date: 7/16/43

Control checked by: H.W. Thune, Jr. Photo Engr.

date: "

Radial Plot by: Tampa Office Personnel

date: 8/19/43

Detailed by: E.A. Worrell, Asst. Engr. Drafts.

date: Oct.-Nov. 1943

Reviewed in compilation office by: A.L. Kidwell, Jr. Topo Engr. date: Nov. 1943
J.H.S. Billmyer, Asst. Photo Engr.

Elevations on Field Edit Sheet
checked by: G.E.V.

date: Feb, 1944

STATISTICS (III)

Land Area (Sq. Statute Miles): 65.8

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: 97.3

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-B, 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:

FIELD SURVEYS

Aerial photography with the Coast and Geodetic Survey nine-lens camera, with airplane and flight crew furnished by the U. S. Coast Guard. The photographs were taken to the scale of 1:20,000.

Ground inspection of the photographs for identification of control points, and classification and clarification of planimetric details on the photographs.

Contouring by planetable directly on the photographs. Supplementary vertical control was established by means of an extensive subordinate level net, furnishing unmarked elevations at road intersections, driveways, and numerous other points identifiable on the photographs.

COMPILATION OF MANUSCRIPT

Compilation on the map manuscripts by radial plot methods (celluloid hand templates) of all planimetry and contours. These manuscripts were drawn on the scale of 1:20,000 on celluloid sheets on which polyconic projections had been ruled with the Projection Ruling Machine in the Washington Office. Compilation was accomplished in the ~~Baltimore~~ Tampa Photogrammetric Office.

FIELD EDIT

Comparison of a copy of the manuscript with the ground. This included inspection for completeness and accuracy as well as the location by planetable methods of additional details, checking of nautical and aeronautical aids to navigation, etc.

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.

DESCRIPTIVE REPORT

Quadrangle T-8372

Project CS 290 B

The field inspection and contouring for this quadrangle were done on photographs #11805, 11803, 11808, and 11809.

1. Quadrangle No. T-8372 is found near the eastern limits of Project CS 290, lying between Plant City, Florida and Lakeland, Florida. The area which comprises this quadrangle is a part of the coastal plain of the Atlantic seaboard. The maximum relief of the area is approximately 80 feet, and the maximum elevation is 179 feet. The general slope of the land is toward the northwest and the west. Surface drainage is almost completely lacking, with the exception of a very few small streams and some man-made ditches.

The topography is relatively simple, and is characteristic of that found in other portions of this area. A few sink holes and swamps are found in this quadrangle, but these are less common than in the areas directly to the east or west; they are also smaller and shallower and, therefore, exercise less influence upon the topography. The absence of sink holes accounts for the fact that the large number of lakes found in the other quadrangles of this vicinity are not present in this area. A number of small lakes occurs in the southern portion of the quadrangle but these, it is assumed, have resulted from excavations carried on by the phosphate mine at Coronet, which is situated just south of the southern limits of the quadrangle. These excavations have had a marked effect upon the topography in the immediate vicinity and have resulted in the alteration and complication of the contours. Much of the relief resulting from the excavations is not reflected

by the contours, because the 20 foot contour interval is too large. The northeastern portion and much of the southern third is pock-marked by small cypress swamps and intermittent ponds, which are depressed from one to five feet below the general ground level. Many of them appear to have no definite drainage. The northern part of the area and much of the southern third is sparsely wooded and sparsely populated and is used largely for grazing. The remainder of the area is used for citrus and truck farming, to a large extent.

The eastern half of the city of Plant City, Florida, constitutes the most important cultural feature of the area. The small town of Kathleen is found in the northwestern corner. United States Highways #92 and 17, proceeding coincidentally, cross the quadrangle from east to west. The Atlantic Coast Line Railroad parallels these highways. There are also quite a few class 2 roads in various parts of the area; all other roads are sand roads, gravel roads, or trails. A landing field, used by the Army Air Force for training planes, is found in the south central portion of the region. The remainder of the culture is made up of farm buildings, a few country churches, schools, and stores.

2. The field inspection for this quadrangle is complete to the extent of classification of roads, vegetation, and buildings. Clarification of details on the photograph have been made when necessary. City and county boundaries are shown, as well as reservation limits of Army airfields. It can be assumed that all cultural features and landmarks have been shown.

3. It should be noted that the eastern part of this quadrangle is quite thickly populated, and that there are numerous small, cultivated fields.

The cultivated fields can be identified by their light, consistent tones.

There is a small area in the southern part of the quadrangle which is pocked with old phosphate mining pits. These pits are filled with water and, in general, have steep, sharp banks. Fast land has been indicated with a red line and ^{marsh?} mark lines have been shown in blue.

The remainder of the quadrangle is covered by large, intermittent swamps and ponds. These usually contain some water during the year. These swamps can be identified by their dark tones and irregular shapes. Vegetation in these swamps is dense and mostly deciduous, although there is a sprinkling of pine. The higher land is covered with low brush and scattered pines which can be identified by the speckled tones.

4. ~~See report for quadrangle T-8372.~~

Additional Bench Marks were added by the reviewer

5. There were very few bench marks on this quadrangle, so it was necessary to run off the quadrangle onto adjoining quadrangles in order to get sufficient coverage. Four main loops were run and, after a conference with the topographer, necessary fly lines were run. The greatest closure in a main loop was .48 foot (RAX). Two small loops through a ditch were closed with an error of 0.63 foot (RBB); these were adjusted, as were all lines.

With the exception of these cases, the greatest closure was .30 foot. Points were set in the center of roads or intersections, and a marker stake was set at the side of the road out of the way of traffic. Where there were no roads, a stake was driven flush with the ground, the elevation placed on it, and a longer stake set beside it for protection and to mark the point.

A party of four men ran the levels for this quadrangle. A small Dumpy level and stadia-type rods were used. The points were inked on the

the photograph at the completion of each line and were inked to the nearest hundredth of a foot.

All recovery of bench marks was completed, and proper notes were submitted by the recovery party before the leveling was begun. All elevations of bench marks were by the U. S. Coast and Geodetic Survey.

The total mileage of levels was 97.3 miles.

6. The contours in this quadrangle were all located with the plane-table and alidade methods, with the exception of a small, wooded area where it was found advisable to use a compass and pace traverse with a Locke level. Only a very few streams occur in this area, and these were located by inspection. In most portions of the area it was possible to do a great deal of sketching, due to the large number of cleared areas and the presence of very few heavily wooded areas.

All planetable traverses were closed very satisfactorily, the amount of closure never exceeding a few tenths of a foot. All level elevations which were checked in the field were found to be satisfactory.

The northern and southern parts of the area are covered by numerous small intermittent ponds and cypress swamps, some of which have no definite drainage; others are drained by intermittent streams and small ditches. Enough of these are indicated on the photographs to enable the compilation office to pick out the remainder, as their appearance is characteristic. The central portion of the area contains large marshes, which are drained by large ditches.

13. Landing fields have been identified and their present boundaries have been shown on the photographs. Drane Field, a U. S. Army Air Corps training field, is shown and all important buildings have been identified.

75-
One emergency landing field is shown; this field has no hard surfaced runways.

A small airport is located in the south central portion of the area, just east of Plant City. This is indicated on the photograph.

14. All roads have been classified according to the prescribed symbols, and proper deletions have been made when necessary. The roads are, in general, of poor quality. A city map of Plant City has been submitted to show the streets.

15. Bridges have been classified by Mr. C. C. Fryer, Junior Topographic Engineer.

16. All buildings are shown on the photograph, and all buildings other than dwellings have been identified according to their type. Proper deletions have been made when necessary. Buildings appearing on the photograph which are neither deleted nor identified by a red circle should be deleted, for they are of no consequence. All buildings obscured by foliage have been blocked out in solid red.

17. The boundary of Hillsborough and Polk Counties extends north and south through the center of the quadrangle. This line is indicated on the photograph and was taken from maps of Polk and Hillsborough counties and checked by location of monuments and markers in the field. The boundaries of Plant City are shown on photograph #11818.

18. Names of public buildings and other buildings or structures of importance have been named on the photograph. A special report on geographic names has previously been submitted for this quadrangle.

20. Junction with quadrangle T-8373 to the west, T-8371 to the east, and T-8367 to the north were compared in the field and checked. The

area to the south has not been mapped topographically, and is outside the area included within the present war mapping project. Thus, no junction to the south could be made.

22. On photographs 11809 and 11803, all additions, deletions, and corrections are indicated on the photographs. All drainage symbols are in blue, vegetation and cultural features in red. Contour lines are in brown and elevations obtained by the planetable are in black. Supplemental level elevations are in blue. Features to be deleted are indicated by x's of appropriate color - - blue for drainage and red for culture.

Symbols used are those as listed in the instructions.

23. The boundary of quadrangles 8373 and 8372 was overdrawn on quadrangle 8373 above 500 meters, and as a result, the work on a strip about 500 meters in width along the western edge of quadrangle 8372 was included with the remainder of the work on quadrangle 8373. Therefore, refer to photographs #11818, 11817, and 11807, and to the report on quadrangle 8373 for pertinent information on this area.

The levels for this quadrangle and that part of the report pertaining thereto were accomplished by Mr. Walter F. Robohn, Senior Photogrammetric Aid.

The contouring for this quadrangle and that part of the report were accomplished by Mr. Carl A. Moritz, Jr. Topographic Engineer, and Mr. Elliot Gillerman, Jr. Topographic Engineer. The report was a collaborative one.

The report on field inspection was accomplished by Mr. Jack W. Stingley, Junior Topographic Engineer, who inspected the area.

Respectfully submitted,

Carl A. Moritz
Carl A. Moritz
Jr. Topo. Engineer

Approved *Ray L. Schoppe*
Ray L. Schoppe, Chief of WMFP#2

COMPILATION REPORT
TO ACCOMPANY
SHEET NO. T-8372

26. CONTROL

Seven control stations fall within the tracing limits of the sheet and when used in conjunction with the stations on the adjoining sheets are sufficient for controlling the radial plot.

One station, (U-2, 1934), could not be "held to" as the geographic position which was furnished the compilation office is obviously in error. The station, which was plotted in the correct position on the photographs, "cuts in" approximately 410 meters west of the position as plotted on the survey sheet.

27. RADIAL PLOT

The main radial plot, of which T-8372 was a part, is discussed in the compilation report for Sheet T-8368.

28. DETAILING

The photographs, from which the detailing was done, were of good scale and clear. The field inspection was satisfactory and complete, so no trouble was experienced in the interpretation of the photographs.

Some double line ditches on the compilation have been shown exaggerated in width. Notes have been added on the sheet as to the correct width that these ditches are to be finally drafted.

29. SUPPLEMENTAL DATA

The following maps by other organizations were used to supplement the field inspection and photographs in the detailing.

"Street Map of Plant City", furnished by the field inspection party was helpful in tracing out the streets and the city limits.

"Lakeland No. 2 Airfield", also furnished by the field party, was used to delineate the limits of the northern part of Drane Field, along the southern edge of the sheet.

Both of the above maps are attached to this report.

Spur tracks and sidings were taken from blueprints borrowed from the Atlantic Coast Line Railroad.

*an army emergency-2-Landing field just east
of Plant City is also shown.*

36. LANDING FIELDS AND AERONAUTICAL AIDS

Drane Field, (U.S. Army Airport), is the only landing field which falls within the limits of the quadrangle. Only the northern part of the reservation is shown on the sheet as the part of the field actually used for landing falls too far south.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

There were no existing standard topographic quadrangle maps available in the Tampa Office with which T-8372 could be compared.

45. COMPARISON WITH NAUTICAL CHARTS

None of the published nautical charts show the area covered by this sheet in detail.

Respectfully submitted,

Emma A. Correll

Emma A. Correll,
Asst. Engr. Draftsman

Forwarded by:

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

FIELD EDIT REPORT
TO ACCOMPANY QUADRANGLE T-8372

For items 1 through 13, refer to field inspection report.

14. Road Classification. All roads not previously classified have been classified according to instructions, and in a few instances, roads have been reclassified by the field edit party.

15. Bridges. One bridge at latitude $28^{\circ} 02.4'$ and longitude $82^{\circ} 07/0'$ was classified by the field edit party.

For items 16 and 17, refer to field inspection report.

18. Geographic Names. A geographic names report for this quadrangle was completed by J. W. Stingley, Jr. Topo. Engr.; but as the field edit party did not have access to this report, and the name sheet accompanying it (it being used by the Tampa Photogrammetric Office), no check against this sheet has been made to ascertain if all geographic names appear on the compilation. Inquiries were made during the field edit, and no geographic names were found that do not appear on the compilation.

46. Methods. Field edit methods are the same as those discussed in the field edit report accompanying quadrangle T-8376. Refer to that report for this information. All elevations found on the print of the compilation have been checked against those on the photographs, and corrections made where necessary. All corrections, additions, and deletions are to be found on the cloth bound print of the compilation.

47. Adequacy of the Compilation. The compilation is adequate except for the additions, corrections, and changes noted on the field edit sheet. It will be noted that a road "2" to Drane Field, which was constructed after the photographs were taken, has been added. This road was located by planetable traverse.

This should be T-8367

48. Accuracy Tests. No horizontal or vertical accuracy tests were run on this quadrangle. The horizontal accuracy test on the part of the quadrangle accomplished by C. A. Moritz, Jr. Topo. Engr., can be found by referring to quadrangle T-8376. Vertical Accuracy test on work accomplished by Mr. E. Gillerman, Jr. Topo. Engr., will be found with quadrangle T-8385 and T-8381. Both tests were run by C. Hanavich, Prin. Photo. Aid.

Approved:

Ray L. Schoppe
Ray L. Schoppe
Chief of Party

Submitted by:

George E. Varnadoe
George E. Varnadoe
Prin. Photo. Aid
February 25, 1944

This has been applied to Manuscript
and adjoining 18373

STREET MAP
PLANT CITY,
FLORIDA.

SCALE 7 MILES.

Copyright, May - 1 - 1936.
H. B. Andrews, C. E.
Miami City, Florida.

INDEX * STREETS AND AVENUES
* NORTH & SOUTH

[illegible]

Blue Lines indicate hoof
surface of No. 2. Roads.
All other Streets are Rd. 4.

Note change in Post Office.
Correct on Photo 11807.
Note - Route of Highway

Note - Route. of Highway U.S. 92.

	Remarks	Decisions
1		USGB
2		"
3		
4		Railway Guide
5		"
6		Road Maps
7		"
8		"
9		
10	See Descriptive Report	
11		280820-821
12		280819
13		280820-821
14		"
15		"
16		280819
17		280820-821
18		"
19		"
20		"
21		"
22		"
23		"
24		"
25		"
26		"
27		"

GEOGRAPHIC NAMES

Survey No. T-8572

PLANT CITY quadrangle

Name on Survey

	A	B	C	D	E	F	G	H	K	
✓ <u>Florida</u>										1
✓ <u>Hillsborough County</u>										2
✓ <u>Polk County</u>										3
✓ <u>Atlantic Coast Line R.R.</u>										4
✓ <u>Seaboard Air Line Ry</u>										5
✓ <u>U.S. No. 92</u> (also State No. 17) M.B. with respect to Desc. Report										6
statement, that <u>U.S. No. 17</u> does not join No. 92										7
until considerably eastward of this area.										
✓ <u>State No. 34</u> (in northeast corner of sheet)										8
✓ <u>KATHLEEN ROAD</u>										9
✓ <u>Drane Field</u> (mostly to southward)										10
✓ <u>Winston</u>										11
✓ <u>Old Tampa Road</u>										
✓ <u>Swindell Road</u>										12
✓ <u>Winston School</u>										13
✓ <u>New Hope Baptist Church</u>										14
✓ <u>Galloway Road</u>										15
✓ <u>Bellevista Drive</u>										16
✓ <u>Knights-Griffin Road</u>										17
✓ <u>Mt. Tabor Church</u>										18
✓ <u>Youmans</u>										19
✓ <u>Youmans Baptist Church</u>										20
✓ <u>Wilder Road</u>										21
✓ <u>Enon Church</u> (settlement)										22
✓ <u>Mt. Enon School</u>										23
✓ <u>Mt. Enon Baptist Church</u>										24
✓ <u>Taylor Road</u>										25
✓ <u>Wiggins Prairie</u>										26
✓ <u>Midway</u>										27

T-8372

2
Decisions

Remarks

1		280820-821
2		"
3		"
4		"
5		"
6		"
7		"
8		"
9	Pending with USGB	281820-821
10		"
11		"
12		"
13		"
14		"
15		"
16		
17		
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27		

GEOGRAPHIC NAMES

Survey No. T-8372

GEOGRAPHIC NAMES											
Survey No. T-8572											

Names underlined in red approved
by L. Heck on 5/12/44

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- 8372

PLANT CITY 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 T8367.

The nearest vertical accuracy test was run in quadrangles T-8381 & T-8383.

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.

There are no previous topographic surveys in this area.

Comparison with Nautical Charts Nos.

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:

No nautical charts cover this area.

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.

Reviewed April 26, 1944 By Robert B. Collier
under direction of D. H. Benson *(per D. H.)*

Inspected by B. G. Jones *B.G. Jones 8/46*

Examined and approved:

K.T. Adams
Chief, ~~Surveys Branch~~
Division of Photogrammetry

~~Chief, Topography Section~~

Robert W. Hughes
Chief, Div. of Charts
Nautical Chart Branch

Raymond P. Egan
Chief, Div. of Coastal
Surveys