

U. S. COAST & GEODETIC SULIBRARY AND ARCHIV

FEB 15 1935

Acc.	No.	

Form 504 Rev. Dec. 1933

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Topographic | Hydragraphic

Sheet No. 5136

State South Carolina

General LOCALITY

From Broad River southward

Locality

Lemon Island

1935

CHIEF OF PARTY

S. B. Grenell

U. S. GOVERNMENT PRINTING OFFICE: 1994

Applied to Ont. 571 Nov., 1935 K. Peynolde

. .

.

. .

).

,

......

TOPOGRAPHIC TITLE SHEET

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

Field No		
REGISTER NO. 5136	5136	. 13
State South Carolina	***************************************	•
General locality Broad River Lemon Island Locality From Broad River southwar		
Scale 1:20,000 Date of Survey		19
Vessel Aerial Photo Compilation Party #18 Reviewed and recommended for approval: Chief of party Lieut. (j.g.) B. Grenell Photographs plotted by: F. B. Hickman	SBY	ull
Inked by G. F. Lenoir, Jr.		
Heights in feet aboveto ground		
Contour, Approximate contour, Form line inte Instructions dated		feet 19
Remarks: Compilation of aerial photos Nos.:	. 1036 to	1058;
	**************************************	ijeesiyawaki Y

-- NOTES OF COMPILATION-

One copy of this form must accompany each chart from begining to completion. The last draftsman, whose name appears on this form, is responsible for it and all personnell will endeaver to keep these forms up to date and correctly posted. This form is very important inasmuch as the final Descriptive Report of the chart compiled is based upon the information contained herein.

SHEET No.	5136	
1036 PHOTO NO. to	1058 PHOTO NO. 1033	
ВУ	START	TINISH
ROUGH RADIAL FLOT Warren Fitch	7-1-34	7-2-34
SCALE FACTOR (.939 Warren Fitch	<u>7-1-34</u>	7-1-34
SCALE FACTOR CHECKED S. B. Grenell	7-3-34	7-3-34
PROJECTION M. Gruber	7-10-34	7-11-34
PROJECTION CHECKED S. B. Grenell J. B. Nickman	7-11-34	7-11-31
CONTROL PLOTTED F. B. Hickman	7-15-34	7-15-34
CONTROL CHECKED A. A. Futral	7-16-34	7-16-34
TOPOGRAFHY TRANSFERRED S. R. Grenel	I - G. F. Lenoir (va	rious times)
TOPOGRAPHY CHECKED S/B. Grenell	(various time	s <i>)</i>
SMOOTH RADIAL LINE FLOT B. Hickman	-an 10x	_10=10=34
RADIAL LINE PLOT CHECKED S. B. Grene	211	
DETAIL INIED F. Lenoir, Fr.	10-16-34	(Inter- 1-29-35mettently)
AREA DETAIL INKED 117	Square Statute	Milcs
LENGTH OF SHORE LINE OVER 200m	Statuto	Milos
LENGTH OF SHORE LINE UNDER 200m. 8	U.8 Statuto	Milos
GENERAL LOCATION South Carolina	<u>.</u>	
LOCATION From Broad River sout	hward	
DATUM STATION Pinckney 1932	LATITUDE 32°-20'-50).104" (1543.4m)
D.TUM N. A. 1927	LONGITUDD80°-53'-2	28.584"(747.4m) di

In reviewing this sheet in the Washington office, reference should be made to the General Report for 5-lens Sheets which was forwarded with sheet 5114.

GENERAL INFORMATION:

This compilation extends southward from the Broad River and includes the maze of small rivers and creeks as far south as the headwaters of the Okatee River. The general features of marsh, woodland, poads etc. are of the type common to this section of the coast and are discussed in the General Report of above reference. Vegetation symbols have been carefully used to indicate the character and extent of growth.

CONTROL:

The compilation was controlled entirely from triangulation of first, second and third order accuracy and from traverse of third order accuracy run in by the compilation party. The triangulation was from the following makeness sources:

First order, C. D. Meaney, 1932; second and third order, C. A. Egner, 1933 and C. M. Durgin 1933-34.

RADIAL PLOT DIFFICITIES:

An attempt was made to run the radial plot on two flights through sheets 5136 and 5137. It was found that the existing control was insufficient for the purpose and the plot was temporarily abandoned. A sub-party of C. M. Durgin put in a break-down scheme from the first order are and with one station on this scheme (JASPER) as an initial point a closed traverse was run to station PRITCHARD (sheet 5137) in order to furnish additional control. With this new control a second attempt was made to push through a satisfactory plot but again it was found impossible. A second traverse was then run from SWITZERLAND to HEYWARD -2 (near the highway crossing the Savammah River) and a third attempt was made on the plot. (75,37)

After considerable rerunning and adjustment at smooth plot was run through sheets 5136 and 5137. This plot caused more trouble than any other plot on the entire project and it is the belief of the writer that there is something wrong with the photographs. The plotting and pricking of all control was checked; all common radial points were checked and some of the photographs remounted and yet a series of alternate straight prints could be held on a group of control stations and the intervening "skew" prints could not be made to hold the same control and the azimuth established by the straight prints.

The amount that these control stations fell off on various prints were seldom more than four or five meters and the effect on the general plot was much less than this but the small discrepancy made it difficult for the writer to be certain that the radial plot was up to standard.

Everything possible has been done in the field to straighten out this section and it is the belief of the writer that the plot is as accurate as it can possibly be made. Stations BOLEN, PINCKNEY, EUHAW, JASPER, FRIPP and SWITZERLAND were the stations which would not hold on all pictures and which roughly surrounded the area in which most of the difficulty was encountered. The photographs giving the most trouble were Nos. 1042 to 1055 and the Office Reviewer is especially requested to inspect the area outlined above.

COMPARISON WITH CONTEMPORARY SURVEYS:

All junctions with adjoining compilations are satisfactory. However, considerable difficulty was encountered in adjusting the shoreline to fit sections rodded in on the aluminum mounted sheets of Lieutenant Rittenburg. Many of the discrepancies were small and were obviously a matter of interpretation of detail and such adjustments were made as necessary.

There were two sections however that gave considerable trouble and in which it was found impossible to alter the compilation sufficiently to agree with the field survey. It is the belief of the writer that the compilation is more correct for these two areas for the following reasons:

1.- The section around the junction of Hazzard Creek and the Chechessee River falls within the triangle formed by stations EUHAW, BOLEN, nad FRIPP and for that reason is excellently controlled by these stations on several wing prints giving a rigid fix for that area.

2.- The second and more pronounced discrepancy occured on the Okatee River in the region around Cherry Point Landing, Lat. 32°-19' to Lat. 32°-20'. One print was found, No. 1017, on which both station PINCKNEY and BARRELL both fell and on which all radial points surrounding these stations held simultaneously. This one print was used as a check on the compilation of the detail in question. The reviewer should note that the shoreline rodded in by Lieutenant Rittenburg's party is controlled from station PINCKNEY only and that the sheet does not extend as faras BARRELL and that a traverse is "hanging in the air" on that end. The compilation was held rigidly between the two stations.

LANDMARKS FOR CHARTS:

A list of landmarks for this area has been submitted on form 567 by Lieut. I. E. Rittenburg, 1934

COAST PILOT NOTES:

Notes have been submitted by Lieut. I. E. Rittenburg, 1934.

NAMES ON OVERLAY SHEET:

All names appearing in the tracing have been taken from current issues of charts and from Geological Survey and U.S.Army maps of the area.

Respectfully, submitted,

S. B. Grenell, Chief of Party

REPORT OF COMPILATION:

COMPILATION METHOD:

The standard radial line method was used in making the plot.
Considerable trouble was encountered in running the plot
so it was held up once to run a traverse between triangulation stations
Jasper and Pritchard. One flight failed to hold so the plot was
further interupted until traverse could be run from triangulation
station Switzerland to Heyward-2. However, even with this additional
control there seemed to be some trouble with the pictures, probably
a sticking camera shutter or wrong adjustment of the transforming
printer. The plot was carried through by using points only on or
near "B" print for carrying the azimuth forward.

All stations were held although not on every one of the pictures since some of the stations fell so far out on the wings that their accurate plotting was practically impossible, due to lack of clearness of the detail

The common points between flights failed to hold very well. The flights were flown too far apart, thereby causing insufficient overlap. The points picked common to both flights were so far out on the wings that their selection was doubtful due to dimness of the photographs in this area.

Adjoining sheets were of the same scale.

ADJUSTMENT OF PHOTOGRAPHS:

Due to excessive tilt of the pictures aronsiderable amount of difficulty was encountered in adjusting the photos for tracing.

With a few selections the radial points were well selected and spaced.

In some areas it was necessary to establish additional points especially in the overlapping area. The standard radial line method was used in cutting in these points. Interlacing between points was also used to furnish additional detail control.

Unusual difficulties were encountered in making the shoreline conform to the hydro sheet especially that of the Okatee between stations Barrell and Pinckney. Using skewed photo No. 1017, the radial points in this area held nearly perfect but shoreline failed to check hydro sheets and in order to obtain a check, radial points had to be relocated. Difficulty was also encountered where Hazzards Creek enters Chechessee River near station Fripp. Radial points failed to hold, new points were selected and still it was difficult to obtain a shoreline that checked the hydro sheet. Obscurity of photos here made the accurate selection and transference of points almost impossible.

INTERPRETATION:

The pictures were not very clear for drafting; especially those covering the Broad River shoreline in the vicinity of stations Euhaw and Bolen and those covering the overlapping area.

Detail was not sharply defined in the areas mentioned above and considerable trouble was encountered in tracing same.

A section of a tramroad appears on the N.W. part of this This road runs to a logging camp at Hardeeville, S.C. (shown on compilation 5137).

There is a portion of a large swamp (Great Swamp) in this region also. It is, for the most part, very heavily wooded; principally gum and cypress.

COMPARISONS WITH CONTEMPORARY SURVEYS:

. :

This sheet adjoins with others, viz .: -

No. 5134 at the S. W. corner

No. 5135 at the South No. 5137 at the West

Sheet of Charleston S. C. office at N. E. corner

All these junctions were satisfactorily made.

The shoreline was checked with 1934 hydro sheets of the party of Lieut. I. E. Rittenburg and agrees with same.

COMPARISON WITH KENTLEDFERARY SURVEYS: OTHER

The detail on this compilation agrees very well with that shown on charts available in this office. However, in a few places some differences were noticed which are as follows:

U. S. C. & G. S. chart No. 1210 - St. Helena Sound to Savannah River, shows Cole Island (Lat. 32°-27'-30" Long. 81°-51' roughly) to be entirely surrounded by a good sized creek.onTheephotographs show that there is no definite creek on the N. W. side of the island, the area being bordered by flood marshands on this side.

Same chart also shows two other islands just north of Cole Island on one of which is station Boyd. This fails to agree with the compilation from the photographs which show no islands here.

The shoreline in the vicinity of station Euhaw (Lat. 32°-25' Long. 80°-49' roughly) likewise has undergone a change.

Chart also fails to show a small marsh island near large one in Okatee River (Lat. 32" - 19' - 20" Long. 80°-54'-30" roughly) This island is clearly visible on the photographs.

S. C. quadrange chart by U. S. A. Engineers fails to show tramroad shown in W. W. corner of this compilation.

ACCURACY AND COMPLETENESS:

This compilation should have a probable error in well defined detail of not more than 4 meters, and one in less well defined detail not greater than 10 meters. See never of book

-X-

PHOTOGRAPHS*

No.	to	No.	Time	Date	Stage of Tide
1014		1033	11:00AM	10-10-33	3/5
1366		1058	11:15AM	19-10-33	3/5

L. F. Lenoir, Gr.
Draftsman

Approved:

S. B. Grenell, hief of Party

REVIEW OF AIR PHOTO COMPILATION T 5136 (1935)

Projection.

The projection diagonals have been checked in this office and were found correct so no further check was deemed necessary.

Comparison With Other Surveys and Charts:

- 1. The contemporary plane table surveys show only short sections of shore line being primarily for hydrographic and air photo control.
- (A) T-6129, 1934 (1:10,000) Although there is no shore line rodded in on this sheet the described stations were added to the compilation and fell in true relation with their descriptions. All information and detail on this plane table sheet is shown on the compilation except temperary topographic stations.
- (6) T-6130, 1934 (1:10,000) There is no shore line rodded in on this plane table sheet but the described stations were added to the compilation and fell in true relation with their descriptions. All information and detail shown on the part of the plane table survey covered by the compilation is included in the compilation except temporary topographic stations.
- (C) T-6131, 1934 (1:10,000) There is no shore line rodded in on this plane table sheet but the described stations added to the compilation fall in true relation with their descriptions. All information and detail shown on that part of the plane table survey covered by the compilation is included on the compilation with the exception of temporary topographic stations.
- (D) T-6132, 1934, (1:10,000) At Lat. 32° 22.4° and Long. 80° 49.9' the plane table position of the dock disagreed with the compilation position by about 15 meters. The difference was due to an error in proportioning between radial points and has been corrected on compilation and agrees with the plane table position.

At Lat. 32°-22.9' and Long. 80°-51.8' at the junction of a small stream with Hazzard Creek the plane table shore line and compilation shore line do not agree. The compilation shows the mouth of the stream about 12 meters wider. The compilation is accepted as correct after checking this detail with the photographs.

At Lat. 32°-22.7' and Long. 80°-51.1' there was a difference in shore line between plane table survey and the compilation. The triangulation station Fripp had been plotted in error on photos and the shore line had been added holding to this station. The shore line on the compilation has been corrected and is in agreement with the plane table survey. Other slight discrepancies have been adjusted where the interpretation of the shore line was difficult.

All information and detail shown on that part of the plane table survey covered by the compilation is included in the compilation except temporary topographic stations.

(E) T 6135b, 1934 (1:10,000) At Lat. 32°-19.5' and Long. 80°-52.5' the plane table survey and compilation did not agree as to the position of the dock but on examination it was found that it was due to proportioning between radial points. At Lat. 32°-19.5 Long. 80°-54.3 as referred to on page 2 and 3 of the report it is found that photo 1017 has triangulation station Barrett but not station Pinkney as stated but the photo is good as to scale. By plotting in additional points it is found that the shore line can be shifted enough to conform to the graphic control sheet. The compilation is now in agreement with the plane table survey. Other minor changes were made where small differences occurred due to clearness of photos.

All information and detail shown on the part of the plane table survey covered by the compilation is included in the compilation except temporary topographic stations,

Comparison with Hydrographic Surveys: (A) H5561, 1934 (1:10,000) The shore line of Hazzard Creek in the vicinity of Lat. 32°-24' Long. 80°-50' the shore line was found could be meved out and now is in agreement with the soundings. The photos were very dim and it was difficult to determine the shore line. At Lat. 32°-27.6' - Long. 80°-50' it was found the shore line could be moved out and now agrees with the soundings. The compilation and the soundings are now in agreement throughout. The three changes have been made on the compilation by locating additional radial points and eliminating small errors in adjustment.

(B) H-5563, 1934 (1:10,000) There were numerous places where the shore line and soundings showed small discrepencies. In some instances it was due to the dimness of the photos and others this tilt was considerable making the adjustment between radial points difficult. These discrepencies have been corrected so that the compilation and the soundings are now in agreement throughout. The compilation was corrected by putting in additional radial points and rechecking the size of adjustments in tracing the detail.

reducing

Comparison with Former Surveys

T-998 (1864) covering Broad River and shows no great changes in the topography of this area. There are slight changes due to shifting of streams and sloughs in marsh areas but as a whole no important changes are noted.

T-1195 (1871) covering from Broad Hiver southward over Lemon Island and southward reveals no important changes.

The compilation is complete and adequate to supersede the sections of T-998 and T-1195 which it covers.

Recoverable Stations

Recoverable topographic stations transferred to the compilation in the office from the plane table sheets listed below:

Fox (d) -	T 6129	Col (d)	T 6132	Trip (d)	T 6135b
Odd (d)	T 6129	Span (d)	T 6132	Tank (d)	Т 6135Ъ
Rit (d)	T 6130	Tank	T 6132		
Sal (d)	T 6130	Bee (d)	Т 6135Ъ		
Skip (d)	T 6131	Flat (d)	T 6135b	Plotted by	L. C. Lande
Ex (d)	T 6131	For (d)	Т 6135Ъ	Checked by	M. D. Crook

Remarks: The interior of the marsh areas have in a number of cases been generalized and all the small sloughs and breaks have not been shown. Along Broad River between latitudes 32°23′ 20°32°25′ the marshes have been partially redrawn to give a better interpretation. This has been done from a careful study of the photos and of the old surveys.

With reference to the comments on adjustments of the plot and on pages 1 to 3 of the descriptive report, comparison with the plane table and hydrographic surveys indicates only small errors along the waterways, which were due largely to adjustments between radial points and which have been corrected. Photos Nos. 1042 to 1055 listed on Page 2 affect mainly the interior detail.

The accuracy of location of 4 to 10 meters given on page 4 is high for work on this scale and in view of the difficulties in making the plot. A better estimate is an accuracy of location with reference to the triangulation control of 5 to 15 meters for intersected points and 5 to 25 meters for other detail.

L. C. Lands B.g. gones

Approved KT. Adams

$\Delta \Gamma \Delta$		DIL	10	N I A		
GEO	いてん	TH.	IU I	NF	۱И	ED

Survey No. 75/36	rvey	No	7	5	L	3	6		_
------------------	------	----	---	---	---	---	---	--	---

Chart No.	/ 2	<u>.</u> 4	10 -	5	7	/	
Ollait 110.	u.	S	Arm	4	9	uad	,

	•
Diagram	No

f st, Approved by the Division of Geographic Names, Department of Interior.

 $\not {\mathbb C}$, Not Approved by the Division of Geographic Names, Department of Interior.

Referred to the Division of Geographic Names, Department of Interior.

B G A U Sea C H	S. Hwy #17 board Air Line Rail erry Point Landing Katee Rive FR Hawassie Island kney Landing	U.S. C. F	G.S. *12.	1- W/Z.	50 (1922)	1/26/38 24E.
6. A. U. Sea Ch OH Ca Pira Sp Ma E Ch Ch	reat Swarnp .C.L. R.R .S. Hwy #17 .board Air Line Rails erry Point Landing Katee Rive FR Hawassie Island kney Landing	U.S. Army Q. 11 20 U.S. C. + 11 11 11 11 11 11 11 11 11	G.S. #12.	1- W/Z.	50 (1922)	1/26/38 24E.
A U Sea Ch O F Ch Ch Ch Ch Ch Ch Ch	S. Hwy #17 board Air Line Rail erry Point Landing Katee Rive FR Hawassie Island kney Landing	", U.S.C.+ ", ", ", ", ", ", ", ", ", ", ", ", ", "	G.S. **12.	40	50 (1922)	1/24/38 248.
U. Sea Ch OH Ca Pir Sp Ma Ch Ch	S. Hwy #17 abourd Air Line Rails erry Point Landing Katee Rivet R Hawassie Island akney Landing	u.s.c.gs	G.S. **12.		50 (1922)	1/24/34 SHE.
Sea Ch Of Ca Pin Sp Ma E Ch	erry Point Landing Katee River R Hawassie Island Kney Landing	". ". ". S. C. G S	. 571		50 (1922)	1/26/38 24E.
<u>Ch</u> <u>Oh</u> <u>Ca</u> <u>Pira</u> <u>Sp</u> <u>Ma</u> <u>Eh</u> <u>Ch</u>	erry Point Landing Katee Rivet R Hawassie Island Kney Landing	". ". ". S. C. G S	. 571		50 (1922)	1/26/38 348
O E C a Pir Sp Ma E A C A	Katee Rivet R Hawassie Island akney Landing	 U. S. C. G S	. 571	See C.L. D.S. N. 10/14/	50 (1922)	1/24/38 SHE.
Ca Pir Sp Ma E Ch	Hawassie Island akney Landing	u.s.c.gs	. 571	See C.L. D.S.N. 10/15/	50(1912)	SHE.
Pir Sp Ma E Ch	nkney Landing	••				
Sp Ma E C H	•					l .
M. F. C. H. C. H.)				
<u>E</u> <u>C h</u>	oring Island	**	- 14			
<u>C A</u>	enigault Neck	••				
<u>C h</u>	ripp Landing		• • • • • • • • • • • • • • • • • • • •			
	rechessee River	11				
101	echessee Pt.					
· , , —	echessee Bluft					
	<u>echessee Creek</u>		••			
	azzard Creek		••			<u> </u>
-	ellinger Neck	,,,				
•	olon Hall azzard Neck	••	• •			
<u>H</u>				APPROVED NAMES		

GEOGRAP	'HIC	NAMES
---------	------	-------

Survey No	
Chart No	
Diagram No	

- lpha, Approved by the Division of Geographic Names, Department of Interior.
- $\rlap/{c}$, Not Approved by the Division of Geographic Names, Department of Interior.

Referred to the Division of Geographic Names, Department of Interior.

Status	Name on Survey	Name on Chart		New Names in local use	Names assigned by Field	Location
		U. 5. C. O. S	571			
	Broad River	ľ,	41			
	Gregory Neck	11	**			,
	Cole Island .	u. S. C.+GS	1240			
	Cole Creek	4 1	**		<u> </u>	
	Cole Landing.	4.		-		
	Boyd Creek	• •				· ,
	Boyd Neck	4.S. Army	Quad 807-5	1- 1/2		
	Pilot Island	u.s. c. + G.	5 1240			
			,,,			
			<u> </u>			
						
· ·						
				APPROVED NAMES UNDERLINED IN REC		
				H.L. Flemer.		

REVIEW OF AIR PHOTO COMPILATION NO. 5136

Chief of Party: S.B. GRENELL

Compiled by: G.F. Lenoir Jr.

Project: F.P.H., Ga. Party # 18 Instructions dated: 11-10-33.

- 1. The charts of this area have been examined and topographic information necessary to bring the charts up to date is shown on this compilation. (Par. 16a, b,c,d,e,g and i; 26; and 64)
- Change in position, or non-existence of wharfs, lights, and other topographic detail of particular importance to navigation which affect the chart, is discussed in the descriptive report. (Par. 26; and 66 g,n) No important changes
- 3. Ground surveys by plane table, sextant, or theodolite have been used to supplement the photographic plot where necessary to obtain complete information, and all <u>such surveys are discussed</u> in the descriptive report. (Par. 65; and 66 d,e)
- 4. Blue-prints and maps from other sources which were transmitted by the field party contain sufficient control for their application to the charts. (Par. 28) No maps or blueprints.
- 5. Differences between this compilation and contemporary plane, table and hydrographic surveys have been examined and rectified in the field before forwarding the compilations to the office and are discussed in the descriptive report.
- The control and adjustment of the photo plot are <u>discussed</u> in the <u>descriptive report</u>. Unusual or large adjustments are discussed in detail and limits of the area affected are stated. (Par. 12b; 44; and 66 c,h,i)
- 7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, and 44)

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Refer also to the pamphlet "Notes on the Compilation of Planimetric Line Maps from Five Lens Air Photographs."

- The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41)
- 9. Recoverable objects have been located and described on Form 524 in accordance with circular 30, 1933, circular letter of March 3, 1933, and circular 31, 1934. (Par. 29, 30, and 57)

 Form 524 submitted by I.E. Rillenburg, 1934
- 10. A list of landmarks was furnished on Form 567 and instructions in the Director's letter of July 16, 1934, Landmarks for Charts, complied with. (Par. 16d, e; and 60)

 Form 567 Submitted by I.E. Ritten burg, 1934
- All bridges shown on the compilation are accompanied by a note stating whether fixed or draw, clearance, and width of draw if a draw bridge. Additional information of importance to navigation is given in the descriptive report, (Par. 16c)
- 12. Geographic names are shown on the overlay tracing. The accepted local usage of new names has been determined and they are listed in the report, together with a general statement as to source of information and a specific statement when advisable. Complete discussion of place names differing from the charts and from the U. S. G. S. Quadrangles is given in the descriptive report, together with reasons for recommendations made. (Par. 64, and 66k)
- 13. The geographic datum of the compilation is NA. 1927 and the reference station is correctly noted. Position of the inference station is adjusted.
- 14. Junctions with adjoining compilations have been examined and are in agreement. (Par. 66j)
- The drafting is satisfactory and particular attention has been given the following:
 - 1. Standard symbols authorized by the Board of Surveys and Maps have been used throughout except as noted in the report.
 - 2. The degrees and minutes of Latitude and Longitude are correctly marked.

- 3. All station points are exactly marked by fine black dots.
- 4. Closely spaced lines are drawn sharp and clear for printing.
- 5. Topographic symbols for similar features are of uniform weight.
- 6. All drawing has been retouched where partially rubbed off.
- 7. Buildings are drawn with clear straight lines and square corners where such is the case on the ground.

(Par. 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 48)

- 16. No additional surveying is recommended at this time.
- 17. Remarks:

18. Examined and approved;

Feb. 6, 1935

Chief of Party

19. Remarks after review in office:

Reviewed in office by: L. R. Lande B. g. Jones

Examained and approved:

Chief, Section of Field Records

Chief, Division of Charts

Chief, Section of Field Work

Chief, Division of Hydrography and Topography.