9394 N\$5

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Diag Cht. 1235-2
U. S. COAST AND GEODETIC SURVEY
DEPARIMENT OF COMMERCE
DESCRIPTIVE REPORT
Type of Survey Topographic
Field No. PH-58 (49) Office No. T-9391
LOCALITY
State North Carolina
General locality Onslow County
Locality Jacksonville
H.F. Garber, Chief of Field Party
Hurbert A. Paton, Baltimore Photo Office 194 52
<u> </u>
CHIEF OF PARTY
LIBRARY & ARCHIVES

8-1870-1 (1)

T_9394 .

Project No. (II): Ph-58(49)

Quadrangle Name (IV):

Field Office (II): Jacksonville, N. C.

· Chief of Party:

H. F. Garber

Photogrammetric Office (III): Baltimore, Md.

Officer-in-Charge: H. A. Faton

Instructions dated (II) (III);

27 February 1950

28 April 1950, Supplement 1

Copy filed in Division of Photogrammetry (IV)

26 April 1951

Office

Method of Compilation (III): Air Photographic

Multiplex (Planimetry)

Graphic (contours)

Manuscript Scale (III):

1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:10,000

Scale Factor (III):

1.00

Date received in Washington Office (IV): 0CT 2 2 1870 Date reported to Nautical Chart Branch (IV): 0CT 2 9 1870

Applied to Chart No.

Date:

Date registered (IV): 7 Feb 1955

Publication Scale (iV): 1:24,000

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): MSL

Mean sea level except as follows:

Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e., mean low water or mean lower low water

Reference Station (III): VERONA, 1932

Lat.: 34° 38 1 37 • 376"

77° 281 42.850"

Adjusted KONSKOKONSKOK

Plane Coordinates (IV):

State: N.C.

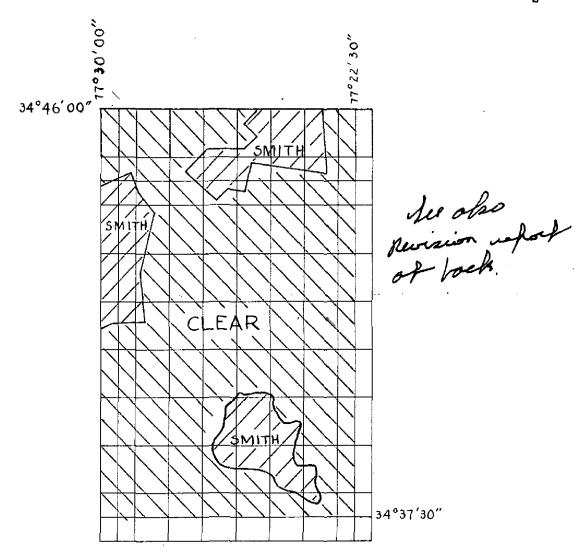
Zone:

X=

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

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

Form T- Page 1



Areas contoured by various personnel (Show name within area)
(II) (III)

DATA RECORD

Field inspection by (II): J. E. Hundley

H. G. Murphy

March -May 1950

M. V. Smith

Planetable contouring by (II): J. A. Clear

M. W. Smith

Date: Aug. 1950

Feb. 1951

Completion Surveys by (iI): H. R. Cravat

Date:

Date:

July 15, 1952

Mean High Water Location (III) (State date and method of location): Feb. 10, 1952 (photogramme tric) shoreline from previous photography, dated 11/15/49 and 12/1/49, revised or verified using new nine-lens photographs

Projection and Grids ruled by (IV): $T \cdot L \cdot J \cdot AND H \cdot D \cdot W \cdot$

Date: March 1950

Projection and Grids checked by (IV): H.D.W. and T.L. J.

Date: March 1950

Control plotted by (III): A. C. Rauck, Jr. and D. M. Brant

Date: April 1950

Control checked by (III): D. M. Brant, A. C. Rauck, Jr. and H. P. Eicheat April 1950

REMEXICAN Stereoscopic Albert K. Heywood

Control extension by (III): Albert C. Rauck, Jr.

Date: April 1950

April, May 1950

Planimetry A. C. Rauck, Jr. and

Date: April, May 1950

Stereoscopic Instrument compilation (III):

A. K. Heywood

Date:

Manuscript delineated by (III): B. A. Dew (North half) M. L. Bloom (South half)

June 1950 Date:

Photogrammetric Office Review by (III): A. C. Rauck, Jr.

Date: July 1950

Elevations on Manuscript

Date: July 1950

checked by (II) (III):

A. C. Rauck, Jr.

Form T-Page 3

M-2618-12(4)

U.S.C. & G. S. (6" focal length) Camera (kind or source) (III): U.S.C. & G. S. nine-lens camera (8.25" focal length)

		PHOTOGRAPHS	(111)	
Number LEJ-1-14 to 1-21	Date 12-1-49	Time 122 2	Scale 1:24,000	Stage of Tide • 4 above MLW
" 1-48 to 1-55	n	1211	tt	.4 11 11
" 1-85 to 1-93	, H	1107:	Ŋ	<u>. L</u> 11 11
" 2-10 to 2-16	11-15-49	1414	11	2.9 11 11
" 2-48 to 2-56	n n	1352	11	2.8 " "

1:10,000 scale nine-lens photographs

34768 to 34774	2/10/52	1 2 29	1:10,000	.1 above MLW
34820 to 34826	Ħ	1323	n T	.l below MLW
34805 to 34809	11	1308	11	·1 " "

Tide (III)

Tables of predicted tides. 1949 & 1952

Reference Station: HAMP TON ROADS, VA. Subordinate Station: NEW RIVER, INDET, N.C.

Subordinate Station:

Washington Office Review by (IV): C. Hanavich

Final Drafting by (IV): J.H.FRAZIER - 9394-N 9394-5

Drafting verified for reproduction by (IV): wmo. Wallis

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III):

Shoreline (More than 200 meters to opposite shore) (III): Shoreline (Less than 200 meters to opposite shore) (III):

Control Leveling - Miles (II): 33

Number of Triangulation Stations searched for (II): 52

Number of BMs searched for (II): 28

Number of Recoverable Photo Stations established (III): 6

has been removed from the manuscript.

Number of Temporary Photo Hydro Stations established (III): 0

Ratio of | Mean | Spring | Ranges Range Range 1.0 3.0

Date: 5-24-54-(w) 6-4-54(s)

Date: 9-2-54

Identified: 28*

Identified: 15x

Date:

Remarks: III * Station P.B.M. No. V 68, U.S.C. & G. S. STA No. 30, 1941 is also BM-V68, 1934. This station was recovered, identified and used as horizontal control, and has been subsequently destroyed. (see form 685A). The station

Recovered: 37*

Recovered: 16*

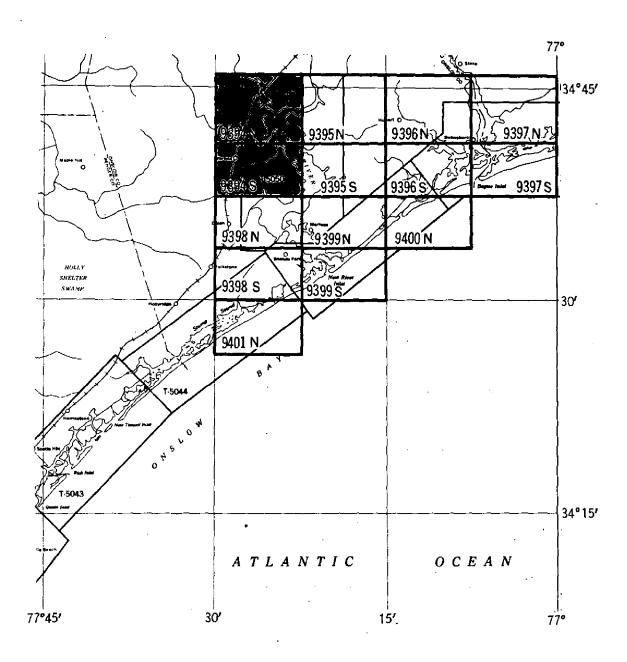
M-2618-12(4)

TOPOGRAPHIC MAPPING PROJECT

PH-58 (49)

NORTH CAROLINA New River

Scale 1:10,000



Summary T-9394

Project Ph-58(49), a topographic mapping survey, consists of 8 quadrangles numbered T-9394 to T-9401, inclusive. The area of the project is located in the vicinity of the town of Swansboro and New River, N.C., and extends from the coastline between longitudes 77° 00' and 77° 30' northward to latitude 34° 46'. To the east it junctions with Ph-5(45) - a topographic and shoreline mapping project.

The field operations included complete field inspection and the establishment of some additional horizontal control. Contouring was accomplished by planetable at 5-foot intervals. Compilation of planimetry was done by the multiplex; planetable contours were later applied by graphic methods. The compilation scale was at 1:10,000. Except for T-9400N and T-9401N, each map manuscript is comprised of 2 ejects and is identified as the N (North) or S (South) sheet. Each sheet of the map manuscript - including T-9400N and T-9401N - is 3 3/4; in latitude by $7\frac{1}{2}$; in longitude; the exception to this is in the northern tier of 4 sheets (T-9344N to T-9397N inclusive) which are 4 3/4; in latitude.

For information on other phases of the work concerning the project, such as the project instructions, special reports, official correspondence, and other supplementary information, reference should be made to the project completion report, which will be compiled and submitted upon completion of the review of all the surveys on this project.

These maps are to be published by the Geological Survey at a scale of 1:24,000 as a standard topographic quadrangle. Cloth-backed lithographic prints of the original map manuscripts at compilation scale and the descriptive reports for all maps in this project will be filed in the Bureau Archives. Cloth-backed copies of the published topographic quadrangles will also be filed.

Field Inspection Report, T-9394

2. Areal field inspection. -- About three-fourths of the area is owned by the Federal Government and utilized as Camp Lejeune of the U. S. Marine Corps. This part of the reservation is devoted to a barracks area, an outlying airfield and troop maneuver areas.

The City of Jacksonville lies in the north central portion and borders Camp Lejeune. The growth of this small city is being accellerated by the demand for housing by Marine Corps personnel and related industrial ventures.

The only other settlement of appreciable size is the unincorporated village of Verona in the southwest.

The area is traversed by two primary highways and several secondary ones. All points are readily accessible. Also, the Atlantic Coast Line railroad runs through the length of the quadrangle.

New River crosses the quadrangle, dividing it into about three-fourths land area on the west and southwest and one-fourth on the northeast. This stream is navigable to Jacksonville. Its banks are generally bluffs, being as high as 25 feet in some instances.

Terrain in the north half is rolling and fairly uniform in pattern. Near the river in the sough half many small creeks and narrow ravines are found. The banks of these are usually steep and the ravines narrow.

Elevations run to about 75 feet, the highest points being in the southwest, where the terrain flattens out somewhat.

Vegetation consists of pine and some oak trees on the higher ground and appears dark gray or black on the photographs. The low areas are predominated by gum trees with scattered cypress and pine. The gum and cypress appear light gray and round-topped and are quite distinct.

North of Jacksonville, the New River swamp consists of heavy brush and scattered deciduous trees and has a dense gray tone.

Mainly in the southwest part some Pocosins are found. These are high ground swamps, being only a foot or so lower than the surrounding land. A very dense growth of brush, briars, vines and small trees is found. This vegetation is well-nigh impenetrable. While this quadrangle only touches the edge of a large pososin, it is interesting to note that often the ground rises gently toward the

center-in the large ones, that is. The highest point in the County is said to be in a Pocosin. The smaller ones are usually flat and saucer-like. Drainage is mostly by seepage. They are normally wet all year, as the dense vegetation holds the water in. The photographic tone of these is a smooth, dense gray, speckled with black pine trees.

The open land is devoted to farming, the principal commercial crop being tobacco.

No particular difficulty was encountered in photographic interpretation and it is believed enough notes were made for adequate compilation. No phase of the field inspection was purposely omitted.

The photographs are of good quality and adequately cover the area.

3. Horizontal control. Two unmarked traverse stations were established for supplemental control. They are HM #6 and HM #7 and are part of the traverse run between triangulation stations HUBERT, 1933 and MILL, 1932.

The following traverse stations were established by the contract engineers for the U. S. Marine Corps, or the U. S. Navy Public Works Engineers at Camp Lejeune, and were identified for use in the Photogrammetric plot, or were used as azimuth stations to establish substitute stations:

Mon. 371	(USMC)	Mon. 339 (USMC)
Mon. 33	(USMC)	Mon. 27 (USMC)
Mon. 32		Mon. 26 (USMC)
Mon. 92		Mon. 44 (USMC)
Mon. 140		Mon. 45 (USMC)
Mon. 48		100,000 Gal. Elev. Water Tank
Mon. 39	(USMC)	(Tent Camp No. 1)(USMC)

Mr. T. J. Dillon, Chief of Surveys, U. S. Navy Public Works, states that the order of accuracy of these stations is believed to be third order. He further states he has used some of them with good results.

The following stations were established by Company A, 30th Engineers, U. S. A., and are of third order accuracy:

Mon. 18, 1941 (C of E)
Mon. 9, 1941 (C of E)
Mon. 10, 1941 (C of E)
Mon. 10, 1941 (C of E)

Mon. 10, 1941 (C of E)

Az. Mk. (RM # 1) of Triangulation Station
VERONA 1932 (C of E, 1941)

Destroyed see p. 4 under Remarks

The following is a list of "lost" Coast and Geodetic Survey stations:

HIGH, 1932 MARSH, 1933
MONTFORD, 1932 (USE) SWAMP, 1933
WALTON, 1933 SOUTHWEST, 1933 (USE)
BOG, 1933 RAGGED, 1933 (USE)
MOSS, 1933 (USE) HADNOT, 1931 (USE)
PARADISE, 1933 (USE) STUMP, 1933 (USE)

Of these HIGH, 1932, R.M. 2 was recovered and identified for photogrammetric plot control.

The following additional U. S. Marine Corps stations have been recovered during interior inspection:

150,000 Gal. Water Tank (USMC) 100,000 Gal. Elev. Water Tank (Tent Camp No. 2)(USMC) Boundary Marker XVIII

The tanks were identified in connection with Landmarks for Charts; the boundary marker in connection with Camp Lejeune boundary. Since these stations were recovered after plot control stations were submitted, they may serve as a check on the horizontal position of the map detail.

No effort was made to recover all U. S. Marine Corps traverse stations.

4. <u>Vertical Control.--All</u> known Coast and Geodetic Survey Bench marks were searched for. Those recovered were identified on the photographs.

Bench marks of the U. S. Marine Corps and Navy Public Works Department were not systematically recovered. These marks are numerous and were not used except to tie to in a few instances while contouring.

The following is a list of existing first-order Coast and Geodetic Survey bench marks:

-K-87(lost)	Ver ona	R. M. 1, Verona
-J-87(lost)	'N 27	R. M. 2, Verona
M 27	VY 147	R. M. 3, Verona
P 27	JW 147	√ North Meridian

Second order bench marks recovered and identified are:

V 68 and W 68.

Tidal bench marks are as follows:

Also a geodetic beach mark, listed on p. 9.

Tidal B. M. M 27 Tidal B. M. 1, U. S. E. Tidal B. M. Town Pt. 2 Tidal B. M. Town Point 3.

Establishment of one elevation for multiplex control was specified. It was established by planetable method with a closure of less than 0.5 ft. No adjustment was made. This point lies at approximate Lat. 34°41.4', Long. 77°30.5'

Approximately 33 miles of fly-levels were run as supplemental control for contouring. Elevations were determined with a Wye level, with recordings to the nearest hundredth of a foot. The maximum error of closure was .45 foot and no adjustments were made.

There were 33 checked spot elevations established. These were numbered 9401-9433, inclusive. Also there were 4 checked spot elevations established in connection with the HUBERT, 1932 - MILL, 1933 traverse. These were numbered 9302 - 9305 inclusive, and the records were transmitted to the Washington Office along with other traverse data.

5. Contours and drainage. -- Contouring was done by standard plane-table methods directly on the 1:10,000 scale photographs. A considerable portion of the area was contoured while vegetation was in heavy foliage and numerous lines were cleared in order to search out the narrow ravines making up the drainage system of New River. In addition the area was thoroughly walked over in an attempt to detect drains not seen on account of the dense growth. This plan was necessary as the stereoscopic examination failed to reveal many of the narrow ravines.

After field work the photographs were again examined under the stereoscope in order to delineate the contours with more accurate detail.

On the small islands and marsh areas where a boat was necessary a hand level was used and elevations tied into the tide.

About a square mile of U. S. Navy Public Works contours at Lat. 34°44', Long. 77°23' are to be used. This particular area was not tested for accuracy but other areas of their contouring were and proved to be excellent. Relief expression is shown in minute detail by these engineers as their work was done on at a 1 foot interval at a scale of 1 inch equals 100 feet.

Drainage was delineated in the compilation office in connection with the planimetric maps furnished the Navy Hydrographic Office. Apply Hydrographic Office.

- 6. Woodland cover .-- See item 2, Areal field inspection.
- 7. Shoreline and alongshore features. -- No appreciable erosion of the shoreline is evident since photography. The high-water line has been indicated where overhanging trees obscure it. This overhang is usually 10 or 12 feet.

Periodic tide is negligible in the upper New River and no attempt was made to delineate a low-water line.

Bluffs are indicated and approximate heights recorded.

Alongshore structures were carefully inspected. Sextant fixes were submitted for obstructions to navigation, dolphins, etc.

Bridge and cable data have been shown on the photographs.

- 8. Offshore features .-- All features in the navigable water were visited and angular measurements made to locate them for nautical charts.
- 9. Landmarks and aids.--Landmarks were inspected from seaward and recommendations made on Form 567 as a special report.

Fixed aids to navigation were identified by direct marking on the photographs, or located by theodolite method as a part of an operation for the entire project, in which those aids in the open waters of New River were located. These aids have been listed on Form 567 as a separate report.

One aeronautical aid is recommended for charting. Form 567 was submitted for it.

- 10. Boundaries, monuments and lines. -- Information on this subject is contained in a special report for the project.
- 11. Other control. -- Three recoverable topographic stations were established: AMOK, 1950; JACKSONVILLE WATER TANK, 1950; and STACK, 1950. Previously established horizontrol is sufficient to meet project requirements. BEACON, 1950; WALTON AZ MK, 1950; NEW RIVER LT 45, 1950;
- 12. Other interior features. -- Interior features such as buildings, roads, etc., were inspected and labelled in accordance with current instructions.

The Marine Corps airfield at Peters Point, on the west side of New River, is a part of Camp Lejeune and does not have a separate boundary. Lengths and widths of runways have been indicated on the photograph, as a map showing them was not available.

Bridge and cable clearances were carefully checked and are tabulated as follows:

1. Fixed Hwy. Bridge, U.S. 17, Jacksonville, North Carolina, Horiz. clearance: 32.8 feet, Vert. Cl. 14.2 ft. above M. H. W.

(Note: The vertical clearance was checked and rechecked from mean high-water marks on the bridge piling. There is very little tide here and no account was taken of flood water conditions of the river. High water clearance is listed in the Bridge Book Supplement as 10 feet. The district Engineer was not notified of this difference as flood water conditions were not observed.)

- Overhead cable north side of highway bridge: Vertical clearance, 35 ft. above mean high-water markings.
- 3. Overhead cable 3/4 mile N.W. of highway bridge: Vertical clearance, 25 feet.
- 4. First overhead cable south of highway bridge: Vertical clearance, 14 feet.
- 5. Second overhead cable south of highway bridge: Vertical clearance, 35 feet.
- 6. Fixed highway bridge (now street): Horizontal clearance, 28 ft. Vertical clearance, 14 feet.
- 7. A. C. L. railroad bridge, swing type: Horiz. clearance, right span, 48.5 ft., left span, 48.5 ft., Vert. cl., 3.5 ft.
- 8. Overhead cable at railroad bridge: Vert. clearance, 50 ft.
- 9. Overhead cable 1 mile south of railroad bridge: Vert. cl. 60 ft.

These data are shown on photographs LEJ-1-91 and LEJ-1-92, both being Navy Hydrographic Office photographs taken in December 1949.

- 13. Geographic names. -- This subject was covered by a special report submitted in June 1950. Filed in Geographic Names Section, Div. of Charts.
- 14. Special reports and supplemental data. -- Special reports were submitted for Geographic Names, Landmarks for Charts, Nonfloating Aids to Navigation, and Boundaries.

Supplemental data consists of Marine Corps contours (Navy Public Works) for the area discussed under item 5 and U. S. Marine Corps Reservation Boundary maps, previously submitted.

Horizontal and vertical control identification cards and photographs were sent to the Baltimore Photogrammetric Office under Transmittals No. 2, dated 28 March 1950, and No. 5, dated 7 April 1950. Field inspection data was submitted on Transmittal No. 10, dated 19 May 1950.

Field edit of planimetry was accomplished in July 1950 and the data forward to Baltimore under transmitting letters Nos. 21 and 24.

Respectfully submitted, 30 April 1950

William H. Shearouce

William H. Shearouse, Cartographer

		0		0			0	Photogrammetry
MAP T- 9394			PROJECT NO. Ph-58(49)	SCALE OF	OF MAP 1:1	1:10,000	SCALE FACTOR 1.000	8
STATION	SOURCE OF INFORMATION (INDEX)		LATITUDE OR V-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FRO OR PROJECTION FORWARD	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	N.A. 1927 - DATUM BISTANCE FROM GRID OR PROJECTION LINE IN WETERS FORWARD FORWARD	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
T761 6 NON ,	USANC	N.A.	349,771,46	1454.4	(9.69)			
(C.E.)	p.5	1927	2,457,011.96	613.2	(810.8)			
CCC - washing	G.P.		34 43 58.293	1796.3	(52.6)			
, FINE, 1932 (USE)	P.128		77 25 50.178	1276.5	(249.9)			
• WILSON, 1933			34 44 06.49	200.2	(1648.7)			
-	118	=	77 25 50.372	1281.4	(244.9)			
* PBM V -68 *	Corps o		34 45 50,361	1551.9	(297.0)		* Station destroyed	
in test	• Sur		77 29 15,528	394.9	(1131.0)			
MON.16,1941,	#	=	34 44 19,018	586.0	(1262.9)	7066	W of Froject Kimits	
(C'of E)		*	77 30 28.612	727.8	(4.864)			
· VERONA RM NO.1,	USMC		332,497.53	761.2	(762.8)			
1932	P.7	2	2,458,346.97	1020.2	(503.8)			
. HM NO. 6.1950	Field		374,539.67	1383.7	(140.3)	_		
	Comp.	=	2,483,720,88	1134.1	(389.9)			
0301 7 ON WH .	-	=	367,180.62	2.499	(859.3)	Not p	lotted; temporary stat.	:000:
			2,475,438,18	133.6	(1390.4)			
. 150,000 GALLON	U.S.M.C.		362,874.86	876.3	(647.7)			
FU.S. M.C.	r. c.		2,479,932.82	1503.5	(20.5)			
. BOUNDARY MARKER	H	N.A.	366,004,31	306.1	(1217.9)			
XVIII (USMC)	r.t	1927	2,463,491.63	1064.3	(459.7)		- 10	
100,000 GALLON	OFFICE		359,672,05	1424.0	(0.001)			
CAMP No. 2), WMC	1 P.3		2,465,532,87	162.4	(1361.6)			
, MON. 46,	DIST		329,226.76	1288.3	(235.7)			*14
₹U.S.M.C.≯	P.9	=	2,476,815.60	553.4	(970.6 0			- *
COMPUTED BY. A.C. BAUCK	1ck		DATE 4/12/50	CHEC	H.P.	H.P. Eichert	DATE 4/20	M 2388-12
				The second second	The state of the s	-		1

0		0		0	8	Part wood	0	Photogrammetry
MAP T- 9394		PROJECT NO	T NO. Ph-58(49)	SCALE OF	OF MAP 1:10,000	000	SCALE FACTOR 1,000	R1.000
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROOP PROJECTION FORWARD	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
. TOWN POINT ECC.,	G-14,00	N.A.	34 39 49.624	1529.1	(319.7)			
1933	P.30	1927	77 22 53.522	1362.7	(164.9)			
MON. 371 (USINE)	USMC	98	340.331.27	101.0	(1423.0)			
	F-52			796.5.	(727.5)			
' 200.000 gal.water			353,560.83	1085.3	(438.7)			7
tank, usmc	P.3	=	2,484,706.17	1434.4	(86.6)			
. MON. 26, (USMC)	USMC		367,139,14	652.0	(872.0)			
	P. 1	=	2,475,379,97	115.8	(1408.2)			
WON 32 (FISHC)	=		339,032	1229.2	(294.8)			
The state of the s	P. 7	11	2,459,841.23	1475.6	(48.4)			
. MON. 44 USAC	=		336,968.08	6.665	(924.1)		~	
	P.7	ш	2,470,208.30	63.5	(1460.5)		-4	
. TULAGI 48,1942			352,709,68	825.9	(698.1)			
(USMC)	.P.3	=	2,472,298,87	700.7	(823.3)			
	H .		358,591.70	1094.8	(429.2)			
MON.91(USMC)	F.,		2,476,754.66	534.8	(989.2)			
, MON. 339, (USMC).	=		365,165,68	50.5	(1473.5)			
	P. 2	=	2,485,398.37	121.4	(1402.6)			
.100,000 gal. water			361,948.98	594.0	(930.0).			
tank, lent camp No.	. P.1	=	2,465,532.87	162.4	(1361.6)			
·LITTLE RAGGED 1932			34 40 45.679	1407.3	(4,41.6)			
(USE)	Pg.124	=	77 24 01.056	26.9	(1500.5)			
·MILL 1933 (USE)	Barriel		34 44 24.917	8.767	(1081.0)			
	Pg. 128	Die Die	77 26 00.194	6.4	(1521.3)			-15-
COMPUTED BY H.P. Eichert	chert	DA	DATE 3/50	CHE	CHECKED BY: A.K	A.K.Heywood	DATE 4/50	M · 2388 - 12

							0	
MAP T- 9394		PROJEC	PROJECT NO. Ph-58(49)	SCALE OF	SCALE OF MAP 1:10,000	00	SCALE FACTOR 1,000	I. 000
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)		DATUM FR	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
U S.M.C.)	U.S.M.C. P.3	N.A. 1927	359,403,98	1342.3	(181.7)			
MON. 18, STA.18, C. (C. ST. E.), 194/	C. of E	dio		7.8	(1841.1)			
NORTHEAST, 1933 G	G.P. P.128	22	34 43 47.379		(388.9)			
· TOWN POINT (USE)	Special Pub.No.	=	34 39 49.827	1535.4	(313.5)			
	G.P. P.127	=	34 41 50.543	1557.4	(291.4)			
XIX, (USMC)	USMC p. 1	=	361,901.3	579.5	(944.5)			
* BOUNDARY MARKER, (USMC) XX	25	=	363,298.29	1005.3	(518.7)			
· BOUNDARY MARKER XXI (USMC)	=	=	364,526.87	1379.8	(144.2)			
XXII, & USMC }	=	disa disa	365,290.76	88.6	(1435.4)		,	
BOUNDARY MARKER XXIII, (USMC)		=	365,569.06	173.5	(1350.5)			
· BOUNDARY MARKER	=	=	366,097.10	334.4	(1189.6)			
XXV (USMC)		=	366,515.14	461.8	(1062.2)	4		-16-
COMPUTED BY. W. L. Lineweaver	юмеачег		DATE 5/50	CHECI	снескер ву: Н.Р.	H.P.Eichert	DATE 6/50	M - 2388 - 12

PT. 9394 SCALE OF MAP 1110, 000 SCALE FACTO	PT. 939 PT. 930 PT. 947-566-01 PT. 96-228-05 PT. 96-228-05 PT. 96-228-05 PT. 96-228-06 PT. 96-28-06 PT. 96-28-	0		0	A	0		0	Photogrammetry
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38, " 354,957.58 2,475,146.36 * These positions ** Light List Name	822.3
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** Light List Name -	e positions located by triangulation in 1950
	List Name
	-18-
Wilson 13/12/50	H.P. Eichert
DATE	CHECKED BY.

COMPILATION REPORT

T-9394

PHOTOGRAMMETRIC PLOT REPORT

The Photogrammetric Plot Report is bound with Descriptive Report for T-9401.

31. DELINEATION

Refer to item 31 of Descriptive Report for T-9397 and item 22 of Photogrammetric Plot Report.

32. CONTROL

Refer to items 3 and 4 of Field Inspection Report and last paragraph of item 23 of Photogrammetric Flot Report. See also letter dated 1 December 1950, bound with Descriptive Report for T-9401.

33. SUPPLEMENTAL DATA

Map showing location Reservation Boundary, Camp LeJeune, N. C. sheet 2 of 2.

This was used to correctly identify and plot the boundary monuments and delineate the reservation boundary, particularily in the vicinity of Verona and Jacksonville, N. C.

34. CONTOURS AND DRAINAGE

Refer to item 5 of Field Inspection Report. Also see Contour Revision and Field Completion Report - Project PH-58, New River, N. C. by H. R. Cravat, dated July 15, 1952, bound with this report.

35. SHORELINE AND ALONGSHORE DETAILS

Shoreline inspection was adequate. The mean high water line at Ragged Foint was delineated by using the vertical projector. Photograph scale in this vicinity is not in good agreement with the scale of the manuscript. The heavily wooded condition of this shoreline made it difficult to pick sufficient detail points.

All shallow lines are the compilers interpretation and no low-water lines are delineated.

Shoreline was verified and/or corrected using the new (1952) nine-lens photography.

Refer to item seven of Field Inspection Report.

36. OFFSHORE DETAILS

Near Jacksonville, N. C. are eight dolphins located by sextant angles and distances from three multiplex plotted photo points.

Also plotted by sextant fix, using multiplex plotted photopoints and horizontal control stations such as fixed aids to navigation, towers and elevated tanks, are a wreck south of Jacksonville and a single pile in the foreshore area off Feters Point Airfield.

37. LANDMARKS AND ALDS

Refer to item 9 of Field Inspection Report. Sixteen landmarks and ten aids are plotted within this survey. Of these, four have been plotted by multiplex. All others are triangulation stations.

38. CONTROL FOR FUTURE SURVEYS

Refer to item 11 of Field Inspection Report. In addition to the three stations listed by the field inspection party, three other recoverable topographic stations were established.

In all, five were established by the Field Inspection Party and one by the Field Edit Farty. All are plotted by multiplex and their positions and descriptions are herewith submitted on Forms 524.

A list of Recoverable Topographic Stations is included under item 49 of this report.

39. JUNCTIONS

To the north and west is the limit of the project and no contemporary surveys.

Complete and satisfactory junctions have been made to the south with Survey No. T-9398 and to the east with Survey No. T-9395.

40. HCRIZONTAL AND VERTICAL ACCURACY

Refer to "Vertical Accuracy Test" and "Contour Revision and Field Completion Report" attached to this report.

See \$ 62

8 5 63

See \$65

41. BOUNDARIES, MONUMENTS AND LINES

The U. S. Marine Corp. Reservation Boundary is delineated from boundary markers and monuments established by the U. S. M. C. Refer to item 33 of this report.

42 thru 45.

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

Comparison with the Army Map Service, New River, 15-minute quadrangle, scale 1:50,000, dated 1948, showed considerable cultural change due to expansion of the city of Jacksonville and the Marine Corp. installations.

Many trails shown on the U. S. Army quadrangle are now delineated and classified on the manuscript as Rd. 6.

Comparison was also made with a copy of shoreline manuscript, sheet No. 5050, scale 1:20,000, U. S. Coast and Geodetic Survey, date unknown. This shoreline manuscript was compiled with photography dated January 1933, and although the alongshore and foreshore areas are in good agreement, the usual cultural changes were noted.

47. COMPARISON WITH NAUTICAL CHARTS

Harbor Chart No. 777, scale 1:40,000, published July 1940 (2nd edition) (8/2/48).

As regards the major cultural changes, the same general differences and omissions exist in this comparison, as in item 46. The shoreline is in very good agreement.

Items to be Applied to Nautical Charts Immediately

Peters Point Field Glider Base, a large U.S.M.C. airfield on the west shore of New River.

Items to be Carried Forward

None

Respectfully submitted 8 October 1952

albert C. Rauck,

Cartographer

Approved and forwarded 21 october 1952

Hybert A. Paton, Comdr. U.S.C. & G. S.

Officer in Charge

-50- PHOTOGRAMMETRIC OFFICE REVIEW

T. 9394

1. Projection and grids QCR 2. Title QCR 3. Manuscript numbers QCR 4. Manuscript size QCR
CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy <u>GCP</u> 6. Recoverable horizontal stations of less
than third-order accuracy (topographic stations) <u>GCR</u> 7. Photo hydro stations8. Bench marks <u>GCR</u>
9. Plotting of sextant fixes <u>QCR</u> 10. Photogrammetric plot report <u>QCR</u> 11. Detail points <u>QCR</u>
ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline QCR 13. Low-water line QCR 14. Rocks, shoals, etc. QCR 15. Bridges QCR 16. Alds
to navigation QCR 17. Landmarks QCR 18. Other alongshore physical features QCR 19. Other along-
share cultural features <u>9CR</u>
PHYSICAL FEATURES
20. Water features GCR 21. Natural ground cover GCR 22. Planetable contours GCR 23. Stereoscopic
Instrument contours 24. Contours in general $Q \subseteq R$ 25. Spot elevations $Q \subseteq R$ 26. Other physical
features <u>ACR</u>
CULTURAL FEATURES
27. Roads QCR 28. Buildings QCR 29. Railroads QSR 30. Other cultural features QCR
BOUNDARIES
31. Boundary lines <u>GCR</u> 32. Public land lines
·
MISCELLANEOUS
33. Geographic names <u>QCR</u> 34. Junctions <u>QCR</u> 35. Legibility of the manuscript <u>Q.CR</u> 36. Discrepancy
overlay QCR 37. Descriptive Report QCR 38. Field inspection photographs 983 39. Forms 9CR
40. Albert C. Trauck yr. Supervisor, Review Section or Unit
Reviewer Supervisor, Review Section or Unit
41. Remarks (see attached sheet)
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.
M. L. Bloom B. A. Dew Semy (Cutal) Compilers Compilers

43. Remarks:

48. GEOGRAPHIC NAME LIST Atlantic Coast Line R. R. Bay Church Blue Creek (settlement) · Brinson Creek *C.C.C. Camp Knox Chaney Creek . Deep Gully Creek / Edwards Creek · Farnell Bay - Falls on T-9395 . Georgetown High School (Field Inspection Data) · Hadnot Point *Hawsrum Road . Hicks Run · Holmes Foint Jacks Point Jacksonville Jacksonville Township (Field Edit Data) · Lewis Creek Maplehurst Rd. Mill Creek (North of Jacksonville) offlint · Mill Creek -Mill Run .. Montford Point · Morgan Bay -. Muddy Creek New River Northeast Creek · N. C. 53 *N. C. 24 Onslow County (from County map) " Padgett Road "

**Paradise Isle
Paradise Point

· Ragged Point

*Peters Point Field Glider Base

48. GEOGRAPHIC NAME LIST (cont'd)

- · Scales Creek
- Southwest Creek
 - Stick Creek > -
 - Strawhorn Creek
- Stump Sound Township (Field edit data)
- Swansboro Township (Field edit data)
- · *Tank Creek ·
- · Town Creek
- . Town Point

 - . U. S. 17 . U. S. 258 (Field Inspection Data)
- Verona V
- · Whitehurst Creek
- · White Oak Township (Field edit data)
- Wilson Bay
- . Wilson Island

* These names from Army Map Service Quadrangle, New River, N. C. 1948

Names undorlined in red are approved 3-24-53 L. Heck

49. NOTES FOR THE HYDROGRAPHER

The following aids, landmarks and recoverable topographic stations are within this survey:

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BEACON, 1950 (aeronautical aid) 35 ft. high
TANK, 1950
              (landmark) 145 ft. high
STACK, 1950 (landmark) 115 ft. high
LT. 45, 1950 (aid to navigation)
AMOK, 1950
WALTON AZ. MK.(1933), 1950
 100,000 GAL. ELEV. WATER TANK, 1942 (landmark, triangulation) 175 ft. high
         (Tent Camp No. 1) U.S.M.C.
 100,000 GAL. ELEV. WATER TANK, 1942 (landmark, triangulation) 180 ft. high
          (Tent Camp No. 2) U.S.M.C.
 200,000 GAL. ELEV. WATER TANK, 1945 (landmark, triangulation) 165 ft. high
LT. 33, 1950 (aid to navigation, triangulation)
LT. 34, 1950 (aid to navigation, triangulation)
DAYBEACON 35, 1950 (aid to navigation, triangulation)
                      (aid to navigation, triangulation)
LT. 36, 1950
                      (aid to navigation, triangulation)
LT. 38, 1950
LT. 39, 1950
                      (aid to navigation, triangulation)
DAYBEACON 41, 1950 (aid to navigation, triangulation) DAYBEACON 43, 1950 (aid to navigation, triangulation)
LT. 44, 1950
                      (aid to navigation, triantulation)
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Vertical Accuracy Test, T-9394

A vertical accuracy test of slightly more than four lineal miles was run on photographs LEJ-1-20 and LEJ-1-50.

The line was laid out with the thought in mind of testing the various types of terrain. Consequently it crossed fairly open pine land with some underbrush, thence across a narrow ravine, on through a young pine thicket (originally cultivated land), down into a swamp from which it arose to a clearing, thence across a wooded area cut up with narrow ravines, to a tie-in at a bench mark. From there the test traversed a flatter area through open pine land and semi-Pocosin area in a circular direction to a closure at bench mark Verona, 1932.

Further thought was given to testing an area contoured when foliage was dense as well as an area when most of the deciduous trees and brush were bare. Thus photograph LEJ-1-50 was selected to represent the dense foliage period, work being done about September 1950, and photograph LEJ-1-20 to portray work done in the winter or about December-January.

The test originated at Mon. 44 (USMC), on photograph LEJ-1-50, was tied in at bench mark Verona Az. Mark and a final closure made at bench mark Verona, 1932, on photograph LEJ-1-20. The vertical tie at bench Verona Az. Mark was 0.6 foot high. The correct elevation was assumed before continuing the line. The vertical closure at bench mark Verona, 1932 was 0.1 foot low. Although the correct elevation was taken before continuing the line from Verona Az. Mark to Verona, 1932, no vertical adjustment was made of the obtained elevations.

Horizontally the test originated at a road intersection and was tied in at four well defined features before a final closure at a lone tree near bench mark Verona, 1932. The first tie was made at a point of trees where the error of closure was about 40 feet (short); the second at a road centerline where the error was about 25 feet (short). The third tie was at a road intersection near bench mark Verona Az. Mark where the error was 20 feet (short). These three points are identified and labeled on photograph LEJ-1-50. In each instance the horizontal position was corrected to the identified point but no attempt was made to adjust the line throughout.

The next horizontal tie was mt a small clump of bushes at a power line clearing and is shown on photograph LEJ-1-20. It was obtained by sighting on the known point and correcting the position of the planetable setup on the photograph. The error in position was about 100 feet which was corrected but no adjustment was made throughout the line. This error appears to be more in direction than in distance.

The final closure was made at a lone tree near bench mark Verona, 1932. Again the error seemed to be more in azimuth, being about 40 feet.

Seventy-eight points were tested. Of these 5 or 6 appear to be in wertical error in excess of a half contour interval. This is without applying any adjustments.

Where the vertical errors occured, the terrain pattern was followed with good relief portrayal, and are displacement of contours in sketching. No effort was made to correct the contour placement on the photographs but an overlay is attached to photograph LEJ-1-50 showing the corrected contours.

Respectfully submitted,

William H. Shearouse, Cartographer

cc: Comdr. Garber

Field Edit notes, T-9394-N/2-

The compilation of this half quadrangle is adequate and will be complete after field edit corrections have been applied.

In regards to the reviewer's "note" on the Discrepancy Print, it is believed the field editor has added sufficient notes to aid the compiler in the proper placement of drainage, swamp and flooded areas.

Form 524 is submitted for New River Light 45. All other fixed aids in the area have been located by theodolite method and positions will be furnished by the Washington Office.

Data for a 3-point fix on a single pile is submitted.

Field edit notes appear on the Discrepancy Print, Field Edit Sheet and field photographs LEJ-1-15, 53, 55, 91, 92, and LEJ-2-14, 15, 16.

No check on geographic names was made. A special report on this phase of work, covering the Project, was submitted to the Washington Office June 22, 1950.

Villiam H. Shearau Villiam H. Shearouse, Cartographer

Jacksonville, M. C., 7 July 1950

CONTOUR REVISION AND FIELD COMPLETION REPORT - PROJECT PH-58
New River, North Carolina

Background:

This project was mapped at the request of the Navy Hydro-graphic Office. The necessary field work for the compilation of planimetric maps was completed on a very high priority basis. The field party was pressed for time on this phase of the work but it was presumed that the field party would complete standard accuracy contours in a routine manner.

The contouring was started in the summer of 1950 and completed the following summer. It was not suspected that the field party was having difficulty with the contouring until the completed field records were received in the Washington Office for a preliminary examination prior to completion.

During the examination, inadequacies were observed as follows:

- 1. The contours were sketched without benefit of Drainage.
- 2. A stereoscopic examination indicated that the field contours did not portray the true drainage pattern.
- 3. Many intricate contour patterns were sketched without supporting elevations.
- 4. The general appearance of the contours was unnatural.
- 5. Poor inking and meaningless wiggles in the contours prevailed throughout the project.

The field party had completed vertical accuracy tests on the contouring and the results of these tests were favorable. On this assumption it was presumed that the contours were basically satisfactory, but in need of reshaping to make them more presentable. Also some reworking would be required in adding the omitted drainage.

Reshaping of the contours in one quadrangle was done in the Washington Office and during the course of this work many more inadequacies were discovered, as well as the realization that the Hydrographic Office photography was inadequate for contouring.

During the fall of 1951 Mr. George E. Varnadoe completed vertical accuracy tests on the reshaped contours, as well as completing additional tests throughout the project. These tests were analized in the Mashington Office with results as follows:

- 1. The contours for the entire project were of substandard accuracy.
- 2. The contours in the eastern portion of the project tested about 30% higher than those in the west.
- 3. The office reshaping improved the accuracy of the original contours by 10% due to the inclusion of previously omitted drainage.

Since the contours in the eastern portion of the project were definitely better than those of the western, it was decided to reshape these contours on acetate overlays in the Washington Office. After compilation, the revised contours were to be subjected to a thorough field edit survey. The contours for the remainder of the project were to be revised in the field; the methods to be determined in the field according to the conditions as found on the ground.

Field Party Organization:

The field revision survey was started 7 January 1952 and completed 27 June 1952, with headquarters at Swansboro, North Carolina.

The party was a sub-unit of Photogrammetric Party Nowl, and consisted of 3 planetable units, operating continuously during the entire period.

Mr. H. R. Cravat of the Washington Office acted as field supervisor as well as a unit chief until the middle of April, at which time he returned to his regular duties in the Washington Office, leaving Mr. R. L. McGlinchey in charge.

Each unit included experienced topographer, one recorder, who acted as planetable traverseman whenever called upon, and the usual number of rodmen.

Field Operations:

The contours on maps T-9396, T-9397, T-9400 and T-9401 were reshaped on acetate overlays in the Washington Office; and subsequently were compiled on the planimetric bases. These contours were then revised in the field on double weight prints of the map manuscripts by standard planetable methods.

The combined efforts of all three planetable parties were concentrated in one quadrangle at a time. The work included many miles of planetable traverses for project junctions, location of drainage, correcting erroneous or questionable contours and vertical accuracy testing as well as relocating the swamp limits.

For additional information regarding these revisions,

please refer to the field completion reports that are attached to the appropriate reports.

The field contours for the remainder of the project, map Nos. T-9394, T-9395, T-9398 and T-9399 were of even poorer quality and new photographs were obtained for revising the contours.

The new photography was flown at 1:10,000 contact scale. Photography for maps T-9394 and T-9398 was with the nine-lens camera and T-9395 and T-9399 were photographed with the 6-inch focal length cartographic camera.

The technique for revising the contours in these 4 quadrangles was developed in the field and was applicable to both the single and the nine-lens photographs and included was considerable office work prior to the planetable field surveys.

Each original contour photograph was considered as a base sheet and to each base sheet an acetate overlay was registered by a special set of tick marks and by the tracing of photographic details.

The new photographs were studied stereoscopically and all visible drains, ridges and isolated tops, etc. were transferred to the appropriate overlays. Some difficulty was encountered in making these transfers because of scale differences between the original and the new photographs, but were largely overcome by carefully shifting the overlays to fit the photographic details that were previously traced from the original contour photographs.

The overlays were again registered to the original contour photographs and the new drainage and ridge patterns compared with the original contours. All discrepancies were studied and those requiring field work were marked as well as other weak places where sketching with insufficient control was apparent.

These discrepancies were resolved on the original contour photographs by planetable traverses. In addition, many miles of traverses were run for completing project junctions, locating and checking drainage and swamp limits and for vertical accuracy testing. Red ink was used to differentiate the revision elevations from the original elevations.

After all discrepancies were resolved, appropriate overlays were again registered to the original contour photographs and the contours completely redrawn thereon, and including a complete delineation of drainage and swamp limits. Whenever it was desirable to view the area stereoscopically while reshaping the contours, this was done by registering the overlay to the appropriate new 1952 photographic models. The procedure was similar to that of examining multiplex work sheets, except that the field elevations were lightly penciled on the overlay to control the sketching.

Field completion reports were prepared and attached to only those descriptive reports for which the contour revisions were made on prints of the map manuscripts. Data pertinent to the remainder of the maps are as follows:

T-9394

Junctions:

To insure satisfactory junctions with future surveys, planetable traverses were completed along north latitude 34° 45' as well as 34° 46' and west longitude 77° 30'. Elevations were marked on the original contour photographs at 500 ft. intervals and at all changes in slope.

Vertical Accuracy:

The vertical accuracy of this map as corrected during the field completion survey, complies with National Map Accuracy Requirements.

In addition to the extension planetable traverses, one vertical accuracy test was made; the test was on photograph No. LEJ 1-18, and 94% of the points tested were within a tolerance of less than 1/2 contour interval of error.

Misc .- New Construction:

New construction has changed the contours and planimetry in some areas. The most prominent of these areas were revised, and applicable field inspection notes are cross-referenced from the overlays to the new 1952 photographs. Minor changes such as jeep and tank roads on the Base and logging roads were disregarded.

Because of new construction and erroneous vertical control the contours on photographs LEJ 2-16 were completely reworked on nine-lens photograph No. 34769.

Mis. Public Work Contours:

The public works contours mentioned on page 10 of the field inspection report were transferred to an overlay and blended into the Bureau's contours. These contours were smoothed out to conform with 1:10,000 scale mapping shapes. This smoothing process did not materially

affect the vertical accuracy of the contours, but removed the stiffness that is usually present in large scale engineering contours.

T-9395

Junctions:

Planetable traverses were completed along north latitudes 34° 45' and 34° 46'. In the areas of contours, elevations were marked on the original contour photograph at 500-foot intervals and at all changes in slope.

Vertical accuracy:

The vertical accuracy of this map as corrected on the acetate overlays complies with National Map Accuracy Requirements.

In addition to the extensive planetable revision traverses, one vertical accuracy test was made; 90% of the points tested were within a tolerance of less than 1/2 contour interval of error.

Misc. RR

The Federal Government is planning the construction of a railroad from Camp LeJeune, extending northwest-ward through the quadrangle. At the time of this survey the Department of Public Works had completed a tentative route survey on the ground, and preparations were underway for the acquisition of the land.

This party completed a closed planetable traverse over the brushed out line of the route survey, and marked elevations on the original contour photographs at 500-foot intervals, and at all changes in slope. This planetable traverse was essentially completed because it afforded access for checking the contours in the densely wooded areas, and not as a basis for delineating the railroad.

Construction problems will result in various realignments and contour changes that cannot be anticipated at this early date. For the correct portrayal of the railroad and related features a field survey subsequent to construction would be required. The planetable traverse can be used, however, for delineating location of Proposed Railroad.

Misc. New Construction:

New construction has changed the contours and

planimetry in some areas. The most prominent of these areas were revised on the new 1952 photographs and cross referenced to the applicable acetate overlays. Minor changes such as jeep and tank roads on the "Base" were disregarded.

Misc. Public Works Contours:

Overlays were prepared for the U. S. Navy Public Works contours mentioned in page 9 of the descriptive report. These contours were smoothed out to conform with 1:10,000 scale mapping shapes. This smoothing process did not materially affect the vertical accuracy of the contours, but removed the stiffness that is usually present in large scale engineering contours.

Misc. Drainage:

Both perennial and intermittent drainage are indicated on the contour overlays by conventional symbol. In the developed areas of the "Base" all drainage is ditched, as a mosquito control measure. Most of these ditches are a development of the natural drainage and were delineated on the overlays as intermittent drainage.

T-9498

Junctions:

A planetable traverse was completed along the project limit, west longitude 77° 30°. In the areas of contours elevations were marked on the original photographs at 500-ft. intervals and at all changes in slope.

Vertical Accuracy:

The vertical accuracy of this map as corrected on the acetate overlays complies with National Map Accuracy Requirements.

In addition to the extensive planetable revision traverses, one vertical accuracy test was made. The test was on photograph No. LEJ 2-5, and 91% of the points tested were within a tolerance of less than 1/2 contour interval of error.

Misc.

Some new buildings and road construction has occurred since the original Hydrographic Office photography. Supplemental field inspection is shown on the new nine lens photographs and cross-referenced to the acetate overlays.

T-9499

Vertical Accuracy:

The vertical accuracy of this map as corrected on the acetate overlays complies with National Map Accuracy standards.

In addition to the numerous planetable traverses run throughout the quadrangle, one vertical accuracy test was made. Nine-five percent of the points tested were within a tolerance of less than one-half contour interval of error. These elevations are shown on the original contour photograph No. IEJ 2-69 in violet ink. No attempt was made to correct the contours on the overlay as the result of this test.

Misc.

Some new roads and buildings have been constructed since the 1950 field edit. These are properly classified on the 1952 photographs and are referenced on the acetate overlays. Tank and jeep roads on the Marine reservation were ignored.

Submitted

July 15, 1952

Harland R. Cravat Cartographer

Harland & Cra

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

AERONAUTICAL

MONELOATING AIDS OR LANDMARKS FOR CHARTS

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

The positions given have been checked after listing by

Baltimore, Maryland

Hibert A. Paton Must C. Rance In

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U. S. GOVERNMENT PRINTING OFFICE: 1949 O - 853418 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 field survey sheets. Information under each column heading should be given.

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

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STRIKE OUT ONE TO BE CHARTED

Baltimore, Maryland

Sept.

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albert C. Rauck The positions given have been checked after listing by

Hubert A. Paton

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This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. 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 U. S. GOVERNMENT PRINTING OFFICE: 1949 O - 853418 individual field survey sheets. Information under each column heading should be given.

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

NONBILORTING AND NORLANDMARKS FOR CHARTS

STRIKE OUT ONE TOCHECHEREN TO BE CHARTED

Washington, D. C.

April

19 53

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

The positions given have been checked after listing by

Chief of Party. S. V Griffith

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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 field survey sheets. Information under each column heading should be given.

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS ENRYDAINEMENTS FOR CHARTS

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Washington, D. C.

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16-51696-1 U. S. GOVERNMENT PRINTING OFFICE

Review Report T-9394 Topographic Map 8 May 1953

62. Comparison with Registered Topographic Surveys .-

T-4723		(1933)	1:10,000
T-4724		(1933)	1:10,000
T-4725	•	(1933)	1:10,000
T-5050		(1933)	1:20,000

A comparison with the old topographic surveys was made and it was noted that extensive cultural changes have been effected. The more notable ones are the addition of new buildings and roads.

For nautical charting purposes the old surveys are superseded by the new map (T-9394).

63. Comparison with Maps of Other Agencies .-

New River Quadrangle, AMS, Edition 1948, 1:50,000 H.O. Misc. 15, 042-50-N1, Edition 1948, 1:50,000

A general comparison revealed that the contours are in poor agreement in several areas. Numerous cultural changes were also noted.

- 64. Comparison with Contemporary Hydrographic Surveys .- None
- 65. Comparison with Nautical Charts .-

Chart No. 777, 22 September 1952, scale 1:40,000

Numerous roads, street layouts, buildings, Peters Point, Field Glider Base, and several shoreline structures are not shown on the chart. The spoil areas indicated on the chart south of Jacksonville and in Morgan Bay are not shown on the new map; photographs of the area reveal no indication of their existence.

- 66. Adequacy of Results and Future Surveys .- This map complies with the project instructions and the National Map Accuracy Standards.
- 67. Vertical Control.-Elevations for some of the traverse stations in this area have been established by the USMC. They have been shown as checked elevations and not as bench marks, since it could not be ascertained from the data available if the methods used in establishing these elevations meet the requirements for third-order work or better.

Reviewed by:

Charles Hanavich

15 Feb 1955

Chief, Review Section Div. of Photogrammetry

Chief, Nautical Chart Branch Division of Charts

feet.) Line meters or 13.884 feet.)

M 27.—At Jacksonville, Onslow County, east of the Atlantic Coast road track, at the city water tank, and in the top of the footing of the leg. A standard disk, stanped "M 27 1932." (4.563 meters or 14.970) Top of cust rall opposite Atlantic Coast Line Railroad milepost W

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ther.)

W 147.—About 1.2 miles south along the Atlantic Coast Line Railroad from the station at Jacksonville, Onstow County, about 275 feet south of the center of a railroad trestle, about 33 yards northwest of milepost W 48, 415 feet west of a railroad trestle, about 33 yards northwest of milepost W 48, 415 feet west of the wors rail, at the center of a 1-foot trinagulin blace on the east side of a 34-inch pine tree, and about 4 feet higher than the ground. A standard disk, stamped "W 147 1937" and set vertically. (2.535 meters or 8.317 feet.)

V 27.—About 2.1 miles south along the Atlantic Coast Line Railroad from the station at Jacksonville, Onsiow County, about 2 poles north of milepost W 47, at Phillips Crossing, about 55 feet south of the center line of the road, 28 feet east of the east rail, and 4 feet north of a pole. A standard disk, stamped "N 27 1932" and set in the top of a concrete post. (5.733 meters or 19.046 feet.)

X 147.—About 3.2 miles south along the Atlantic Coast Line Railroad from the station at Jacksonville, Onstow County, about 200 feet north of milepost W 48, 51 feet east of the east rail, at the center of a 1-foot trimiquiar blaze on the ground. A standard disk, stamped "X 147 1935" and set vertically. (7.934 meters or 28.030 feet.)

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feet.)

Y 147.—About 1.8 miles north along the Atlantic Coast Line Railroad from the station at Verong, Onslow (courty, about 250 feet south of milepost W 45, 51 feet west of the west rull, at the center of a 1-foot triungular bluze on the cast side of a 34-inch pine tree, and about 3 feet higher than the ground. A standard disk, stamped "Y 147,1835" and set vertically. (7.513 meters or 24,649

Railroad milepost W feet.) Top of east rail opposite Atlantic Coast Line

4 Top of east rail opposite Atlantic Coast Line Railroad milepost W feet.)

feet.

About 0.5 mile north along the Atlantic Coast Line Railroad from the station at Verota, at the crossing of U. S. Highway 17, top of east ruil at the center line of the highway. 4.33 feet.)

P 27.—About 0.5 mile north along the Atlantic Coast Line Railroad from the station at Verona, Onslow County, about 0.3 mile south of milepost W 44, at the crossing of U. S. Highway, 17, about 30 feet south of the center line of the highway, 29 feet east of the east ruil, and about 50 feet north of a pole. A standard disk, simpled "P 27 1932" and set in the top of a concrete post. (14.317 meters or 46.372 feet.)

Z 147.—At Verona, Onslow County, about 25 yards northwest of the northwest corner of the Atlantic Coast Line Italiaroad station, about 16 yards east of the southeast corner of the G. W. Humphrey store, about 45 feet northwest of a road crossing, and 19.4 feet west of the west rail. A standard disk, stamped "Z 147 1937" and set in the top of a concrete post. (14.312 meters or 48.824 feet.)

Verona, top of east rail opposite the Atlantic Coast Line Railroad station.

(49.443 (49.4 feet.) Top of east rail opposite Atlantic Coast Line Railrond milepost W

fort.)

R. M. 1 Verona.—About 1.1 miles south along the Atlantic Coast Line Railroad from the station at Verona, Onslow County, directly east of milepost W 42 southwest of the Intersection of U. S. Highway 17 and a T-road leading east, 105 feet east of the east rail, and 18 feet east of the east edge of U. S. Highway 17 she stundard reference-mark disk, stamped "VERONA NO. 1 1932" and set in the top of a concrete post. (21.588 meters or 70.827 feet.)

R. M. 2 Verona.—About 1.8 miles south along the Atlantic Coast Line Railroad from the station at Verona, Onslow County, about 0.3 mile north of milepost W 41, 154 feet northeast of triangulation station Verona, described below, about 110 feet east of the track, and 28 feet east of the center line of U. S. Highway 17.

S. COAST AND GEODETIC SURVEY

A standard reference-mark disk, stamped "VEBRONA NO. 2 1932" and set in the top of a concrete post. (21.689 meters or 71.168 feet.)

Verona.—About 1.3 miles south along the Atlantic Coast Line Railroad from the station at Verona, Onslow County, about 0.3 mile north of milepost W 41, 4f feet east of the east rail. 3d feet west of the center line of U. S. Highway 17, and 24 feet north of a pole. A standard triangulation-station disk, stamped "VERRONA 1932" and set in the top of a concrete post. (21.522 meters or 70.010

R. M. 3 Verona.—About 1.8 miles south along the Atlantic Coast Line Railroad from the station at Verona, Onslow County, about 14 mile north of milepost W 41, about 160 feet south of triangulation station Verona, described above, 57 feet east of the east rail, and 24 feet west of the center line of U. S. Highway 17. A standard reference-mark disk, stamped "VERONA NO. 3 1982" and set in the top of a concrete post. (21.513 meters or 70.581 feet.)

Top of east rail opposite Atlantic Coast Line Railroad milepost W 41. (64.3)

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A 148.—About 2.9 miles south along the Atlantic Coast Line Railroad from the station at Verona, Onslow County, about 0.2 mile north of milepost W 46, 50 feet east of the east rail. 22 feet northeast of a twin tree, at a concrete culvert under U. S. Highway 17, in the top of the west head wall, 2 feet north of the south end, 17 feet west of the center line of the highway, and about 1 foot lower than the highway. A standard disk, stamped "A 149 1935." (18509 meters or

(0.725 feet.)

Q. 27.—About 1.5 miles north along the Atlantic Coast Line Raitroad from the station at Dixon, Onslow County, about 60 yards south of milepost W 39, about 45 feet east of the east rail, and 38 feet west of the center line of U. S. Highway 17. A standard disk, stamped "Q. 27 1932" and set in the top of a concrete post. (2.0.548 meters or 67.415 feet.)

B. 148.—About 0.5 mile north along the Atlantic Coast Line Railroad from the station at Dixon, Onslow County, 52.3 feet east of milepost W 38, 68.4 feet east of the east rail, about 75 yards north of a long curve in U. S. Highway 17, at a concrete highway culver, in the north end of the west head wail, 16 feet west of the center line of the highway, and about 1½ feet lower than the highway. A pincon, center line of U. S. Highway 17, opposite the post office. (60.7 feet.)

Dixon, center line of U. S. Highway 17 opposite the post office. (60.7 feet.)

C. 148.—About 0.5 mile south along the Atlantic Coast Line Railroad from the station at Dixon, Onslow County, about 47 yards south of milepost W 37, 28,5 feet east of the east rail, about 55 yards west of the center line of U. S. Highway 17, 4.5 feet southwest of a pole, and about 2 feet higher than the top of the rail. A standard disk, stamped "C 148 1935" and set in the top of a concrete post. (20.25 meters or 67.39 feet.)

R 27.—About 1.1 miles south along the Atlantic Coast Line Railroad from the station at Dixon, onslow County, about 67 mile north of milepost W 36, at a water tank east of the track, and in the top of the southwest pier. A standard disk, stamped "R 27 1932." (20.200 meters or 68.302 feet.)

13.—About 2.0 miles north along the Atlantic Coast Line Railroad from the station at Folkstone, Onslow County, about 0.4 mile south of milepost W 39, 27.5 feet east of the east rail, about 18 yards west of the center line of U. S. Highway II, 4 feet southwest of a pole, and about 1 foot lower than the top of the rail. A standard disk, stamped "D 148 1935" and set in the top of a concrete post about flush with the ground. (20.805 meters or 68.258 feet.)

Top of east rail opposite Atlantic Coast Line Railroad milepost W 35, (72.9)

S.71.—About 1.0 mile north along the Atlantic Coast Line Rallroad from the station at Folkstone, Onslow County, about 0.4 mile south of milepost W 35, opposite the "STATION I MILE" sign, about 100 feet east of the track, at a wall. A standard disk, stamped "S 27 1932." (21.547 meters or 70.692 feet.) T 27.—At Folkstone, Onslow County, about 15 feet north of the north end. of the Atlantic Coast Line Railroad station, about 100 yards west, of U. S. Highway 17, and 31 feet east of the east rail. A standard disk, stamped "T 27 1932" and set in the top of a concrete post. (21.045 meters or 69.045

the marked in Nore.—This disk is slightly tilted. This elevation applies to the "+" metal between the letters "I" and "S" of the word "IMPRISONMENI."

E 148.—About 0.6 mile south along the Atlantic Coast Line Railroad from the station at Folkstone, Obslow County, about 100 yards southeast of mileposit W 38, about 85 yards east of the east rail, at a concrete culvert under U. S. Highway 17, in the south end of the west head wall, 16.7 feet west of the center line of the highway, and about 1½ feet lower than the highway. A standard disk, stamped E 148 1935." (19.940 meters or 65.420 feet.)

U 27.—About 2.0 miles northeast along the Atlantic Coast Line Railroad U 27.—About 2.0 miles northeast along the bout 0.4 mile south of milepost from the station at Hollyridge, Oaslow County, about 0.4 mile south of milepost W 32, at a road crossing, 16 feet north of the center line of the road, 24 feet east of the east rail, and 64 feet west of U. S. Highway 17. A standard disk, stamped of the east rail, and set in the top of a concrete post. (20.540 meters or 67.388 feet.)

Top of east rail opposite Atlantic Coast Line Railroad milepost W 31. (67.0

F 148.—About 1.0 mile northeast along the Atlantic Coast Line Bailroad from the station at Hollyridge, Onsiow County, about 0.4 mile south of milepost the station at Hollyridge, Onsiow County, about 0.4 mile south of milepost W 31, about 11 yards northwest of a small concreté culvert under U. S. Highway II, 29 feet east rothwest of a pole, and about level with the top of the rall. highway, 2 feet northwest of a pole, and about level with the top of the rall. A standard disk, stamped "F 148 1935" and set in the top of a concrete post.' 21.052 meters or 69.101 feet.)

V 27.—At Hollyridge, Onsiow County, about 5 rails north of the center line coast Line Railroad station, at a road crossing, 19 feet north of the center line of the road, 32 feet west of the west rail of the main track, about 75 yards west of U. S. Highway 17, and about 8 feet northwest of a crossing sign. A standard disk, stamped "V 27 1932" and set in the top of a concrete post. (20.168 meters or 68.188 feet.)

G 148.—About 0.9 mile southwest along the Atlantic Coast Line Railroad from the station at Hollyridge, Onslow County, about 0.3 mile southwest of milepost W 29, 55 feet southeast of the southeast rail, at a concrete culvert under milepost W 29, 55 feet southeast of the southeast rail, at a concrete culvert under the southwest and, and 15.5 feet northwest of the center line of the highway. A stundard disk, stamped "G 148 1935." (19.046 meters or 62.487 feet.)

A stundard disk, stamped "G 148 1935." (19.046 meters or 62.487 feet.)

R. M. 1 Pender.—About 1.9 miles southwest along the Atlantic Coast Line Railroad from the station at Hollyridge, Onslow County, about 0.3 mile southwest of milepost W 28, at the Onslow-Fender county line, 8.2 feet northeast of the county-line sign, 80 feet southeast of the southeast rail, at a concrete culvert the county-line sign, 80 feet southeast of the southeast rail, at a concrete culvert the center line of the highway, and about 1½ feet lower than the highway. A standard reference-mark disk, stamped "penDER NO. 1 1832." (15.450 meters or 50.689 feet.)

Pender.—In Pender Comby, about 2½ miles southwest along the Atlantic Coast Line Railroad from the station at Hollyridge, Onslow County, about ½ concrete post. (18.980 meters of 2.270 feet.)

R. M. 2 Pender.—In Pender County, about 2½ miles southwest along the Atlantic Coast Line Railroad from the station at Hollyridge, Onslow County, about ½ mile southwest of the Pender-Onslow county line, at the tup of a concrete post. (18.980 meters or 62.270 feet.)

R. M. 2 Pender.—In Pender County, about 2½ miles southwest along the Atlantic Coast Line Railroad from the station at Hollyridge, Onslow County, atlantic Coast Line Railroad from the station at Hollyridge, Onslow County, and 13 feet southwest of the center line of the highway, and 13 feet southwest of the center line of the road. A standard reference-mark disk, stamped "PENDER NO. 2 1932" and set in the top of a concrete post. (18.839 meters or 61.808 feet.)

R. M. 3 Pender.—In Pender County, about 2½ miles southwest along the Atlantic Coast Line Railroad from the station at Hollyridge, Onslow County, about ½, miles southwest along the Southwest of the Pender-Onslow county line, about 160 feet southwest of the Pender-Onslow county line, about 160 feet southwest of the center line of U.S. Highway 17. A standard reference-mark disk, stamped "PENDER NO. 3 1832" and set in the top of a concrete post. (18.964 meters or 62.218 feet.)

H 148,—About 0.3 mile northeast of the center line of U.S. Highway 17. A standard

Highway 17, in the top of the northeast end of the northwest head wall, feet northwest of the center line of the highway, and about level with op of the rall. A standard disk, stamped "H 148 1865," (16.924 meters or

55.525 feet.)

Top of southeast rail opposite Atlantic Coast Line Railroad milepost W 26. (94.5 feet.)

(94.5 feet.)

W 27.—About 0.2 mile southwest along the Atlantic Coast Line Railroad from the station at Edgecombe, Pender County about 0.1 mile southwest of milepost W 26, 50 feet southeast of the southeast rail, at a contrete culvert under U. S. Highway 17, in the top of the northeast end of the northwest head wall, 18 feet northwest of the center line of the highway, and about 2 feet lower than the highway. A standard disk, stamped "W 27 1932." (19.056 meters or 62.520

J 148.—About 1.1 miles southwest along the Atlantic Coast Line Railroad from the station at Edgecombe, Pender County, about 200 feet southwest of milepost W 25, about 115 feet southest of the southeast rul, at the zenter of a 1-foot triangular blaze on the west side of a 20-inch pine tree, and about 3 feet nigher than the ground. A standard disk, stamped "J 148 1835" and set vertically, (20.234 meters or 66.58 feet.)

K 148.—About 1.7 miles southwest along the Atlantic Coast Line Railroad from the station at Edgecombe, Pender County, about 0.4 mile northeast of milepost W 24, about 0.3 mile northeast of a curve in U. S. Highway 17, about 35 feet southwest of an old abandoned sand-road crossing, 33 feet southeast of the southeast rail, and about 3½ feet higher than the top of the rail. A standard disk, stamped "K 148 1835" and set in the top of a concrete post. (19.534 meters or 64.088 feet.)

Top of southeast ran opposite account to the Atlantic Coast Line Railroad from (61.7 feet.)

X 27—About 2.7 miles southwest along the Atlantic Coast Line Railroad from the station at Edgecombe, Pender County, about 2% rails northeast of the northeast end of the loading platform at Woolvin, about 38 yards northeast of a road crossing, 17 feet northwest of the northwest rail, and 13 feet southwest of a fence. A standard disk, stamped "X 27 1932" and set in the top of a concrete post. (19.767 meters or 64.852 feet.)

concrete post. (19.767 meters of 64.852 feet.)

Top of southeast rail opposite Atlantic Coast Line Railroad milepost W 23. (59.4 feet.)

L 148.—About 5.0 miles northeast along the Atlantic Coast Line Railroad from the station at Hampstead, Pender County, about 0.4 mile northeast of the station at Woodside, about 0.1 mile northeast of milepost W 22, about 8½ rails northeast of the northeast witch of a siding, 34 feet southeast of the southeast rail, 51.4 feet northwest of the center line of U. S. Highway 17, and about 1 foot higher than the top of the rail. A standard disk, stamped "L 148 1935" and set in the top of a concrete post. (16.83 meters or 24.734 feet.)

Y 27.—About 4.0 miles northeast along the Atlantic Coast Line Railroad from the station at Hampstead, Pender County, about 0.7 mile southwest of the station at Woodside, about 3½ poles northeast of milepost W 21, at a small concrete bridge on U. S. Highway 17, and in the top of the northwest end of the northwest head wall. A standard disk, stamped "Y 27 1932." (13.524 meters of 44.370 feet.)

M 148.—About 20 miles northeast along the Atlantic Coast Line Railroad of the northwest head wall. A standard disk, stamped "Y 27 1932."

M 148.—About 2.9 miles northeast along the Atlantic Coast Line Railroad from the station at Hampstead, Pender County, about 0.4 mile portheast of the station at Annandale, about 36 yards northeast of milepost W 20, 67.7 feet southeast of the southeast rail, at a concrete culvert under U. S. Highway 17, in the top of the northwest head wall, 2.3 feet northeast of the southwest end, and 7.8 feet northwest of the northwest edge of the highway. A standard disk, at the station at Hampstead, Pender County, about 0.5 mile southwest of the station at Annandale, about 14 rails northeast of milepost W 19, 47 feet southeast of the southeast rail, and 36 feet northwest of the center line of U. S. Highway 17. A standard disk, stamped "Z 27 1832" and set in the top of a concrete post. (13.468 meters or 44.186 feet.)

N 148.—About 0.9 mile northeast along the Atlantic Coast Line Railroad from the station at Hampstead, Pender County, about 130 feet southwest of milepost W 18, 6 feet northwest of the corthwest rail, at a water tank, in the the corthwest of coast Line Railroad from the station at Hampstead, Pender County, about 19 feet southwest of milepost W 18, 6 feet northwest of the northwest rail, at a water tank, in the

southeast concrete foundation pier, inty, about 130 feet southwest west rail, at a water tank, in t , and about 2 feet higher than t

opposite Atlantic & North Carolina Railroad milepost 23.

Top of south rail opposite Atlantic & North Carolina Railroad milepost 23, 150-4 feet.)

T 147.—About 3.5 miles northwest along the Atlantic & North Carolina Railroad from the Union Station at Kinston, Lenoir County, about 0.1 mile west of milepost 23, at the northeast corner of the Kinston mulicipal airport, about milepost 23, at the center line of Hillcrest Road, 24.5 feet south of the south rail, and about 4 feet higher than the top of the rail. A standard disk, stamped "T 147 1935" and set in the top of a concrete post. (16,638 meters or 54.587)

Ut1.—About 43 miles northwest along the Atlantic & North Carolina Railroad from the Union Station at Kinston, Lenoir County, 68 feet east of milepost Eg. At a road crossing, 33 feet west of the center line of the road, 27.5 feet north of the north rail, and about 2 feet lower than the top of the rail. A standard disk, stamped "U 147 1935" and set in the top of a concrete post. (15.442 meters

or 50.633 feet.)

V 147.—About 1.7 miles east along the Atlantic & North Carolina Railroad

Tron the station at Falling Creek, Lenoir County, at Parrotts, about 0.4 mile
east of milepost 21, about 45 feet northwest of the center of a dirt-road crossing, and 10.3 feet north of the north rail. A standard disk, stamped "V 147 1935"
and set in the top of a concrete post. (16.482 meters or 54.108 feet.)
Top of south rail opposite Atlantic & North Carolina Railroad milepost 21.
(57.2 feet.)

south rail opposite Atlantic & North Carolina Railroad milepost

Top of south rail opposite Atlantic & North Carolina Railroad milepost 29, (585 feet.)

F 36.—At Falling Creek Lenoir County, about 35 yards northwest of the northwest corner of the Atlantic & North Carolina Railroad station, 39 feet west of a store, about 52 feet northwest of the center of a road crossing, and set in the top of a concrete post. As a rail and a stamped "F 36 1932" and set in the top of a concrete post. (16.113 meters or 54.833 feet.)

55 (U. S. G. S.).—At Falling Creek, Leuoir County, on the Atlantic & North Carolina Railroad, at the west side of a road, and about 31 feet south of the main track. A United States Geological Survey standard cap, stamped "55 M, C." and riveted on the top of a 3½-inch iron pipe. (16.621 meters or 54.531 feet.)

E 36.—At Falling Creek, Lenoir County, on the Atlantic & North Carolina Railroad, just west of a wooden water tank, at bridge 19.5, at the south end of the east abutcant, and in the top of a brick wall. A standard disk, stamped "B 9, 1932." (16.33) meters or 53.743 feet.)
P. T. S. 108 (U. S. G. S.).—Destroyed in 1932.

Norg.—The pipe of this bench mark was found only 6 inches in the ground and leaning at an angle of 60 degrees. It was moved about 3 yards east of the old location and reset are traproximately the same elevation. For a description of this bench mark as reset, see below.

P. T. S. 108 RESET.—About 3.3 miles east along the Atlantic & North Carolina Raliroad from La Grange, Lenoir County, about 235 yards west of the station at Fields, 23 feet north of the north rail, 21½ feet south of the center line of a dirt road, and at the east edge of a cross road. A United States Geological Survey standard cap, stamped "P. T. 108" and riveted on the top of a 3½—theh from pipe. (33.79 melers or 11086 feet.)

D 36.—At La Grange, Lenoir County, on Kaliroad Street, at the National Bank of La Grange building in the north brick wall, 3 feet from the northwest corner, and about 5 feet higher than the sidewalk. A standard disk, stamped "D 36 192" and set vertically. (34.466 meters or 112.979 feet.)

109 (U. S. G. S.).—Destroyed prior to 1952. (33.067 meters or 108.497 feet.)

Norg.—This elevation is derived from the 1896 leveling by the United States Geological

C 36.—At Bests, Wayne County, south of the Atlantic & North Carolina Railroad, west of a road crossing, at the brick building occupied by the P. F. Garris store. in the northeast wall, near the north corner, and about 5 feet thigher than the ground. A standard disk, stamped "C 36 1932" and set vertically. (38.379 meters or 125.915 feet.) and set vertically. (38.379 meters or 125.915 feet.) and the stamped "C 36 1932" and set vertically. See County, about 100 yards west of a dirt-road crossing, at bridge 8.5, at the south end of the east abutment, and in the top of the brick bridge seat. A standard disk, stamped "B 36 1932" (35.729 meters or 117.221 feet.) 120 (U. S. G. S.).—About 4½ miles west along the Atlantic & North Carolina Railroad from Bests, Wayne County, about 0.3 mile east of milepost 5, about 39

a county road, about 30 feet south of the track, and in line with oles. A United States Geological Survey standard cap, stamped and riveted on the top of a 3%-inch iron pipe. (36.225 meters or west of a o 118.848 feet.)

south rail opposite Atlantic & North Carolina Railroad milepost

ĸ milepost opposite Atlantic & North Carolina Rallroad (117.4 feet.)
Top of south rail (117.6 feet.)

14.0 tecu.)

14.14—About 4.0 miles east along the Atlantic & North Carolina Railroad from Goldsboro, Wayne County, about 6 rails east of milepost 4, at the crossing of State Highway 123, 36 feet southeast of the center line of the highway, 23 lower than the top of the rail. A standard disk, stanged "A 149 1985" and set in the top of a concrete post. (34.00 meters or 114.826 feet.)

Top of south rail opposite Atlantic & North Carolina Railroad milepost 4.

T. B. M. 17.—About 26 miles east along the Atlantic & North Carolina Railroad from Goldsboro, Wayne County, about 0.2 mile west of milepost 3, at bridge and on the top of the south end of the concrete covering of the east brick abuttment. An outlined square. (28.831 meters or 94.590 feet.)

Norg.—It was reported in August 1935 that about half of the outlined square had been chipped off.

B 149—About 2.0 miles east along the Atlantic & North Carolina Railroad from Goldsboro, Wayne County, opposite milepost 2, 54 feet west of a road a road paralleling the truck nearly in fine with a row of poles, and about 1, foot higher than the top of the rail. A standard disk, stamped "B 149 1935" and set in the top of a concrete post, (38.760 meters or 120.603 feet.)

Top of south rail opposite Atlantic & North Carolina Railroad milepost 2, (118.9 feet.)

inilepost 1. Top of south rall opposite Atlantic & North Carolina Raliroad (110.9 feet.)

Railroad, at the Williams Street crossing, at the brick office building of the Borden Manufacturing Co., at the southeast corner, in the south wall, and S.7 feet higher than the ground. A standard disk, stamped "C 149 1935" and set vertically. (36.499 meters or 119.747 feet.)
Goldsboro, at the crossing of North Williams Street and the Atlantic & North Carolina Railroad, top of south rail at the center line of the street. (114.1 feet.)

For additional bench marks in the vicinity of Goldsboro, see oages 63, 328, and 329.

LINE 70, JACKSONVILLE TO NAVASSA, N. C.

[First-order leveling]

This line follows the Atlantic Coast Line Railroad from Jacksonville to Navasa. The original field work was done in January and February 1932 and the line was releveled (see page 6) in October 1985 by parties in charge of W. M. Gibson, junior hydrographic and geodetic engineer. The elevations given below are derived from a combination of the two levelings.

For additional bench marks in the vicinity of Jacksonville, see

pages 54 and 177.

Magnetic Station.—At Jacksonville, Onslow County, about 150 yards east of the Atlantic Coast Line Railroad track, about 125 feet south of a flagpole in front of the high school, and 67 feet west of the southwest corner of the building. A standard magnetic-station disk, stamped "1931" and set in the top of a granite post. (7.028 meters or 23.038 feet.)

North Meridian.—At Jacksonville, Onslow County, at the northwest corner of the high school grounds, about 100 feet east of the Atlantic Coast Line Railroad track, and 24 feet south of the center line of a road leading to the school entrance. The top of a granite post, chiseled "N. C. G. S. U. S. C. S. 1898." (6335 meters or 20.794 feet.) 7

D 147.—About 4.9 miles west along the Atlantic & North Carolina Railroad from the station at Cove City, Craven County, about 130 yards east of milepost 37, about 48 yards south of power-transmission line pole 740-780, 38 feet north of the north rail, about 14 yards south of the center line of State Highway 55, and about 1 foot lower than the top of the rail. A standard disk, stamped "D 147 1935" and set in the top of a concrete post. (18.539 meters or 60.823 feet)

rail opposite Atlantic & North Carolina Railroad milepost

E 147.—About 0.8 mile east along the Atlantic & North Carolina Railroad from the station at Dover, Craven County, about 0.2 mile east of milepost 36, at the crossing of a road leading to a 2-story frame house, 10 feet west of the center line of the road, 44 feet south of the south rail, and about 1 foot lower than the top of the rail. A standard disk, stamped "E 147 1935" and set in the top of a concrete post. (18,979 meters or 62.267 feet.)
Top of south rail opposite Atlantic & North Carolina Railroad milepost 36. (64.1 feet.)
64 (U. S. G. S.).—Destroyed prior to 1935. (19.177 meters or 62.917 feet.)

Norg....This elevation is derived from the 1896 leveling by the United States Geological Survey.

Dover, top. of south rail opposite the Atlantic & North Carolina Railroad station. (64.8 feet.)

F 147.—At Dover, Craven County, about 390 yards west of the Atlantic & North Carolina Railroad station, about 21 yards south of the front steps of the residence of Mrs. Sam Taylor, 35.3 feet north of the north rail of the main track, 17 feet south of the center line of State Highway 55, and in the west end of a concrete culvert south of the highway. A standard disk, stamped "F 147 1935." (19.24 meters or 63.455 feet.)

About 0.9 mile west along the Atlantic & North Carolina Hailroad from the station at Dover, at the crossing of State Highway 55, top of south rail at the center line of the highway. (59.2 feet.)

G 147.—About 1.1 miles west along the Atlantic & North Carolina Railroad from the station at Dover, Craven County, about 8 rails east of treatle 34.2, at the first road crossing west of the crossing of State Highway 55, 10.2 feet north of the north rail, and about 2 feet lower than the top of the rail. A standard disk, stamped "G 147 1935" and set in the top of a concrete post. (16.133 meters or 52.930 feet.)

Top of south rail opposite Atlantic & North Carolina Railroad milepost 34. (51.6 feet.)

Togland from the station at Dover, Craven Craven County shout 90 years and set in the top of the rail.

H 147.—In Jones County, about 2.1 miles west along the Atlantic & North Carolina Railroad from the station at Dover, Craven County, about 290 yards east of milepost 33, about 50 yards southwest of the W. H. Waters farmhouse, at the crossing of the private road leading to the house, 25.6 feet north of the north rail, and 14 feet east of the center line of the road. A standard disk, stamped "H 147 1935" and set in the top of a concrete post. (14.594 meters or 47.850 feet.)

Top of south rail opposite Atlantic & North Carolina Railroad milepost 33. (48.4 feet.)

J 147.—In Jones County, about 3.5 miles west along the Atlantic & North Carolina Railroad from the station at Dover, Craven County, about 290 yards west of milepost 32, 38 feet south of the south rail, at the center of a 1-foot triangular blaze on the north side of a 25-inch pine tree, and about 4 feet higher than the ground. A standard disk, stamped "J 147 1935" and set vertically. (16.98 meters or 65.768 feet.)

Top of south rail opposite Atlantic & North Carolina Railroad milepost 32. (53.2 feet.)

K 147.—In Jones County, about 4.2 miles southeast along the Atlantic & North Carolina Railroad milepost 32.

K 447—In Jones County, about 4.2 miles southeast along the Atlantic & North K 447—In Jones County, about 4.2 miles southeast along the Atlantic & North Carolina Railroad from the Union Station at Kinston, Lenoir County, about 34. The west of milepost 31, about 31 yards east of the center of a county-road crossing, 28.2 feet north of the north rail, in line with a row of poles, and about level with the top of the 'rail. A standard disk, stamped "K 147 1935" and set in the top of a concrete post. (17.245 meters or 59.536 feet.)

L 147.—In Jones County, about 3.6 miles southeast along the Atlantic & North Carolina Hailroad from the Union Station at Kinston, Lenoir County, at Caswell, 22.2 feet west of the northwest corner of the station, 29 feet northeast of a road

312

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COAST

AND GEODETIC SURVEY

of the north rail of the main track. set in the top of a concrete post. A standard disk (14.016 meters or

ζ, Carolina Railroad milepost 30

opposite Atlantic & North Carolina milepost 8

For additional bench and 239 marks in the vicinity of Kinston,

rail opposite Atlantic & North Carolina Railroad milepost S

Top of south r (42.8 feet.) Top of south r (48.6 feet.) S 147.—About rail opposite Atlantic & North Carolina Railroad milepost Z

S 147.—About 2.5 miles northwest along the Atlantic & North Carolina Railroad from the Union Station at Kinston, Lenoir County, at Hines Junction, about 50 yards east of the center of the crossing of U. S. Highway 70, 19.3 feet north of the north rail, and 34.3 feet southeast of the center line of the highway 14.4 standard disk, stamped "S 147 1985" and set in the top of a concrete post, (14.706 meters or 48.248 feet.)

About 2.5 miles northwest along the Atlantic & North Carolina Railroad from the Union Station at Kinston, at the crossing of U. S. Highway 70, top of south rail at the center line of the highway. (47.8 feet.)

⊦

(102.6)

(103.0)Top of near rail opposite Atlantic Coast Line Railroad milepost feet.

(104.8)Top of near rail opposite Atlantic Coast Line Railroad milepost C

Y 69.—About 2.2 miles south along the Atlantic Coast Line Railroad from the station at Wade, Cumberland County, about 0.3 mile north of milepost C 62, at a differend crossing, about 5 yards south of the center line of the road, 15.1 feet west of the west rail, and about 1 foot lower than the top of the rail. A standard disk, stamped "Y 69 1984" and set in the top of a concrete post. (31.636 meters or 103.792 feet.)

(112.2)meters or 103.792 feet.)
Top of near rall opposite Atlantic Coast Line Railroad milepost C 61. feet.)

(129.8)Top of near rail opposite Atlantic Coast Line Railroad milepost C 60.

Z 69.—At Wade, Cumberland County, about 13 yards southwest of the southeast corner of the Atlantic Coast Line Railroad station, about 0.4 mile south of milepost C 59, about 10 yards west of the west rail of the middle track, in the northeast corner of a flower bed, about 2 yards southwest of a pole, and about level with the top of the rail. A standard disk, stamped "Z 69 1834" and set in the top of a concrete post, (43.008 meters or 141.102 feet.)

Top of near rail opposite Atlantic Coast Line Railroad milepost C 58. (135.5)

feet.

A 70.—About 3.0 miles southwest along the Atlantic Coast Line Railroad from the station at Godwin, Cumberland County, about 0.6 mile southwest of milepost C 57, about 14 yards east of the center of a road crossing, opposite pole 1757, about 11 yards southeast of the southenst rail, about 6 yards northeast of the center line of a dirt road leading to a sawdust pile, and about 2 feet lower than the top of the rail. A standard disk, stamped "A 70 1934" and set in the top of a concrete post, (38.899 meters or 127621 feet.)

Top of near rail opposite Atlantic Coast Line Railroad milepost C 56. (149.9)

station at Godwin, Cumberland County, about 606 feet south of milepost C 55, about 460 feet south of a green tool shed, 174 feet west of the west rail, and about 2 feet lower than the top of the rail. A standard disk, stamped "B 70 1834" and set in the top of a concrete post. (43.029 meters or 141.171 feet.) C 70.—At Godwin, Cumberland County, about 2 yeards south of the southeast corner of the Atlantic Coast Line Railread station, in the southeast corner of the station flower bed, about 8 yards west of the west rail of the south-bound frack, in line with the east face of the station, and about level with the top of the ril. A standard disk, stamped "C 70 1934" and set in the top of a concrete post. (47.637 meters or 156.289 feet.)

D 70.—About 1.2 miles northeast along the Atlantic Coast Line Raliroad from the Station at Godwin, Cumberland Country, about 29 yards east of the center of a dirt-road crossing, about 23 yards northeast of the center line of the road. 315 feet southeast of the southeast rall, about 1 yard west of a pole, and about 1 foot lower than the top of the rall. A sinndard disk, stamped "D 70 1894" and set in the top of a concrete post. (48.862 meters or 153.746 feet.)

Top of near rall opposite Atlantic Coast Line Railroad milepost C 53. (155.2 feet.

(143.1Pop of near rail opposite Atlantic Coast Line Railroad milepost C 52.

(147.0)Top of near rail opposite Atlantic Coast Line Railroad milepost C 51. E 70.—About 3.9 miles northeast along the Atlantic Coast Line Railroad from the station at Godwin, Cumberland County, about 875 feet northeast of signal 1906, at the bridge over Black River, in the top of the southwest corner of the west wing wall, 6.1 feet west of the west rail, and about level with the top of the rail. A standard disk, stamped "B 70 1894." (45,685 meters or 149,885 the rail. feet.)

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S. COAST AND GEODETIC SURVEY

Railroad Line Coast Atlantic opposite

The station at Dunn, Harrett County, about 0.2 mile southwest of milepost C 49, about 25 miles southwest of milepost C 49, about 25 yards north of the center of a dirf-road crossing, about 17 yards northeast of the center line of the ord 17.2 feet west of, the west rall, and about 3 feet lower than the top of the rall. A standard disk, stamped "F 70 1934" and set in the top of a concrete post. (54.695 meters or 179.445

Railroad milepost of near rail opposite Atlantic Coast Line feet.)

C 48. milepost Railroad Line Coast Atlantic near rail opposite Top of net (199.6 feet.) G 70.—At L

Goast Line Rairoad from the station, about 0.6 mile southwest along the Atlantic Coast Line Rairoad from the station, about 420 feet northeast of signal 1878, about 120 feet east of the Gulf Refining Co. property, at a dirt-road crossing, about 8 yards west of the west rail of a sidefrack leading to the premier Feetilizer Co., about 6 yards southwest of the road, 10 feet east of the east rail of another siderack, about 1 yard southwest of a pole, and about level with the top of the rail. A standard disk, stamped "G 70 1934" and set in the top of a concrete post, (fi.857 meters or 2036-04 feet.)

DUNN.—At Dunn, Harnett County in the east wall of the Atlantic Coast Line Railroad station, about 6 yards north of the southeast corner, about 35 yards north of the center of the Bask Broad Street crossing, 15.7 feet west of the west rail of a siderack, 1 foot north of the entrance to the White watting room, and about 1½ feet higher than the ground. A standard disk, stamped "DUNN 1934" and about 1½ feet higher than the station, about 38 yards west of the city water tank, about 17 yards east of the east rail, in the northwest corner of a city lot, and about 12 feet lower than the rail. A standard disk, stamped "H 70 1984" and set in the top of a concrete post. (62.744 meters or 205.853 feet.)

For additional bench marks in the vicinity of Dunn, see page 265.

C 46. Top of near rail opposite Atlantic Coast Line Railroad milepost (197.8 feet.)

Coast Line Railroad near rail opposite Atlantic Top of ne (221.3 feet.)

C 45,

mllepost

(27.3 rett.) 17.—About 2.9 miles northeast along the Atlantic Coast Line Ruliroad from the station at Dunn, Harnett Couity, about ½ mile north of signal 1842, about 774 feet southwest of milepost C 44, about 270 feet east of the northeast corner of the Mary Steward School, at a dirt-road crossing, about 9 yards of the east rafl, about 7 yards south of the center line of the road, about 1 yard southwest of a pole, and about 2 feet lower than the rall. A standard disk, stamped "J 70 1934" and set in the top of a concrete post. (75.571 meters or 247.936 feet.)

43 near rail opposite Atlantic Coast Line Railroad milepost 뒁

470.—About 1.8 miles southwest along the Atlantic Coast Line Railroad from the station at 1 Berson, Johnston County, about 685 feet southwest of milespost C 42, about 0.2 mile northest of the Johnston-Harnett county line, about 38 yards south of a road crossing, about 18 yards southeast of the north-bound track, about 1 yard north of a pole, and about 5 feet lower than the rail. A standard disk, stamped "K 70 1934" and set in the top of a concrete post. (67,319 meters or 222,831 feet.)

Top of near rail opposite Atlantic Coast Line Railroad milepost C 42. (231.9)

BENSON.—At Benson, Johnston County, at the northwest corner of the intersection of Main and North Rallroad Streets, in the wall of the Farmers Commercial Bank building, 2 feet from the southeast corner, and about 1 foot higher than the sidewalk. A standard disk, stamped "BENSON 1934" and set vertically. (74.895 meters or 245.718 feet.)

L 70.—In the northeast part of Benson, Johnston County, on the Atlantic Coast Line Rallroad, about 34 yards southeast of the center line of the northbound track, in the northwest wall of the municipal water power plant, about

Z

at Bellaville, Duplin County, about 23 36 feet south of the center line of the and about level with the highway. A "SANDLIN NO. I 1933" and set in the Sandlin.—About 3.8 miles east along State Highway 24 from the school ville, Duplin County, about 220 feet west of a dirt roud leading south, nuth of the center line of the highway. 6 feet west of a lone pine tree, it level with the highway. A standard reference-mark disk, stamped and set in the top of a concrete post. (27.137)

or Singly Ret.)

N. J. Sandlin.—About 3.1 miles east tiding State Highway 24 from the school at Beulaville, Duplin County, about 15 yards south of a dirt road leading to Potters Mill. 37 feet south of the center line of the highway, 13 feet east of the center line of a dirt road leading to Potters Mill. 37 feet south of the center line of the highway, 13 feet east of the center line of a dirt cross road, and at the edge of a woods. A standard reference-mark disk, stamped "SANDLIN NO. 2 1933" and set in the top of a concrete post. (28,88 meters or 88,375 feet).

Sandlin.—About 3.1 miles east along State Highway 24 from the school at Reulaville, Duplin County, about 135 feet west of the eenter line of a dirt road leading to Potters Mill. 494 feet west north of the center line of a dirt road leading to Potters Mill. 494 feet west of the west of the highway. A standard triungulation-station disk, stamped "SANDLIN 1833" and set in the top of a concrete post projecting about 5 inches above ground. (28,872 meters of 88,133 feet). It should be said to the center line of a dirt road leading to Potters Mill. 33 feet south of the center line of the highway at the edge of a woods, and 12 feet west of the center line of a dirt road leading to Potters Mill. 33 feet south of the center line of a dirt left read leading to Potters Mill. 33 feet south of the center line of a dirt road leading to Potters Mill. 33 feet south of the center line of a dirt road leading to Potters Mill. 33 feet south of the center line of a dirt road leading to Potters Mill. 35 feet south of the center line of a dirt road leading to Potters Mill. 35 feet south of the center line of the highway at the edge of a woods, and 22 feet west of the potter how that the top of a concrete post.

G. 63—About 5 mile east along State Highway 24 from the school at Beulaville, Duplin County, about 47 miles west of Linestone Creek, about 11 yards south of the center line of the highway. A standard disk, stamped "G 69 1034" and set in the top of a woods, and about 1 fo

L 69.—About 2.1 miles east along State Highway 24 from the county court-house at Kenansville, Duplin County, about 889 feet east of the dirt road leading to the A. J. Figgin home, about 8 yards south of the highway, about 8 yards northeast of a small clump of pine trees, and about level with the highway. A standard disk, stamped "L 69 1934" and set in the top of a concrete post. (27.984 meters or 91.745 feet.)

M 69.—At Kenansville, Duplin County, in the triangle at the junction of State Highways 24 and 11, about 19 yards east of the center line of State Highway 11, about 7 yards north of the center line of State Highway 24, and about 1 foot higher than the highway, A standard disk, stamped "M 69 1934" and set in the top of a concrete post. (36.149 meters or 118.369 feet.)

N 69.—At Kenansville, Duplin County, about 62 yards north of the center line of State Highway 24, at the county courthouse, 2 feet west of the southeast corner, and about 2 feet higher than the ground. A standard disk, stamped "N 69 1934." (38.805 meters or 127.313 feet.)

COAST AND GEODETIC

SURVEY

P 69.—At Kenansville, Duplin County, about 6 yards east of the Atlantic & Carolina Railroad station, about 22 yards east of the track, about 4 yards south of a pole, and about 1 yard west of a fence. A standard disk, stamped "P 69 1934" and set in the top of a concrete post. (38,649 meters or 126,801

Q 69.—About 0.9 mile northwest along the Atlantic & Carolina Railroad from the station at Kenansville, Duplin County, about 7 yards northwest of the center line of the track, about 18 yards south of the center line of U. S. Highway 117, and about level with the rail. A standard disk, stamped "Q 69 1934" and set in the top of a concrete post. (38.253 meters or 125.592 feet.)

R 69.—About 3½ miles northwest along the Atlantic & Carolina Railroad from the station at Kenansville, Duplin County, at a dirt-road crossing, about 5 yards north of the center line of the road, about 4 yards cast of the center line of the track, and about 16vel with the rail. A standard disk, stamped "R 69 1934" and set in the top of a concrete post. (40.925 meters or 134.282 feet.)

S 69.—About 4.7 miles southeast along the Atlantic & Carolina Railroad from Warsaw, Duplin County, at Johnsons Crossing, about 1½ rails west of a siding switch, about 7 yards west of a dirt road, about 6 yards south of the center line of the track, and about 1 foot lower than the road, about 6 yards south of the center line of the rasw, Duplin County, about 10 yards northeast of the center of the crossing of U. S. Highway 117, about 6 yards northeast of the center of the crossing of U. S. Highway 117, about 6 yards northeast of the center of the crossing of U. S. Highway 117, about 6 yards northeast of the center of the Carolina Railroad from Warsaw, Duplin County, about 10 yards northeast of the center of the Railroad from Warsaw, Duplin County, at the junction of the Atlantic & Carolina Railroad from Warsaw, Duplin County, at the junction of the Atlantic & Carolina Railroad from Warsaw, Duplin County, at the junction of the Atlantic & Carolina Railroad from Railroad track, about 13 yards west of the center line of U. S. Highway 117, and set in the top of a concrete post. (46.294 meters or 151.683 feet.)

E of Advis Railroad track, about 13 yards west of the center line of U. S. Highway 117, and set in the top of a concrete post. (46.294 meters or 151.883 fee

pages 61, additional . 82 , and 237. bench marks Ħ of

LINE 38, FAYETTEVILLE TO SELMA, N.

[Second-order leveling]

This line follows the Atlantic Coast Line Railroad from Fayette-ville to Selma. The field work was done in the spring of 1934 by a party in charge of W. M. Gibson, junior hydrographic and geodetic engineer.

For additional bench marks in the vicinity of Fayetteville, see

pages 40, 41, 59, 60, and 203. the vicinity of Fayetteville,

V 69.—About 2.2 miles northeast along the Atlantic Coast Line Rallroad from the station at Fayetteville, Cumberland County, at the northeast end of the bridge over Cape Fear River, in the top of the southeast relatining wall, about 2 yards southeast of the southeast rall, and about 1 foot lower than the rail. A standard disk, stamped "V 69 1934." (27.340 meters or 89.698 feet.) Rallroad from the station at Fayetteville, Cumberland County, about 0.1 mile northeast of milenost C 67, about 0.3 mile northeast of a dirt-road crossing, about 9 yards northwest of the center line of the northwest track, and about 5 feet lower than the rail. A standard disk, stamped "IV 69 1334" and set in the top of a concrete post. (28.077 meters or 92.116 feet.)

Top of near rail opposite Atlantic Coast Line Railroad milepost C 66. (97.6 feet.)

feet.) Top of near rail Coast Railroad milepost C

fect.) X 69.—At Beard, Cumberland County, about 28 yards southeast of the Atlantic Coast Line Railroad station, about 8 yards southeast of the center line of the north-bound track, about 8 yards northeast of a point opposite the northeast

(129.451 meters concrete post projecting about 7 inches above ground of a col

R 68.—A Frankinton, Frankin County, about 50 yards northwest of the Seaboard Air Line Railway passenger station, about 75 yards north of a road crossing, about 20 feet west of the freight station, about 50 feet west of the main track, and about level with the rail. A standard disk, stamped *420557 R 68 1934" and set in the top of a concrete post projecting about 5 inches ubore ground. (128.209 meters or 420.632 feet.)

For additional bench marks in the vicinity of Franklinton, see

pages 20-22

ರ LINE 17, JACKSONVILLE TO WARSAW, N.

[Second-order leveling]

This line follows U. S. Highway 17 from Jacksonville to the junction of U. S. Highway 258 about 0.9 mile west of Jacksonville, U. S. Highway 258 from the junction of U. S. Highway 17 to the junction of State Highway 24 about 2.7 miles northwest of Richlands, State Highway 24 from the junction of U. S. Highway 258 to Kenansville, and the Atlantic & Carolina Railroad from Kenansville to Warsaw. The field work was done in March 1934 by a party in charge of W. M. Gibson, junior hydrographic and geodetic

of Jacksonville, in the vicinity engineer. For additional bench marks pages 54, 314, and 315.

S 68.—About 0.7 mile west along U. S. Highway 17 from Jacksonville, Onslow County, about 1,500 feet east of the junction of U. S. Highway 258, opposite a dirr road leading to a State prison emp, about 11 yards north of the center line of the highway and about 1 foot higher than the highway. A standard east, stamped "S 68 1934" and set in the top of a concrete post. (6.371 meters or 20,302 feet.) and set in the top of a concrete post. (6.371 meters or 20,302 feet.) at the junction of U. S. Highway 17 from Jacksonville, Onslow County, at the junction of U. S. Highway 17 from Jacksonville, Onslow line of U. S. Highway 17, and about 1 foot higher than the highway. A standard disk, stamped "T 68 1834" and set in the top of a concrete post. (6.200 meters or U 68.—About 0.9 mile west along U. S. Highway 17 from Jacksonville, Onslow County, thence about, 0.2 mile northwest along U. S. Highway 258, about 30 yards south of the W. M. Brown house, about 12 yards south of the center line of the highway, about 4 yards southwest of the center line of a dirt road, mear a pole, and about 14 yards southwest of the center line of a dirt road, "U 68 1934" and set in the top of a concrete post. (5551 meters or 18.212 feet.)

**R. M. 3 Walton.—About 0.9 mile west along U. S. Highway 17 from Jacksonville, Onslow County, thence about 0.4 mile northwest along U. S. Highway 258, about 200 feet west of a small cemetery, about 75 feet northwest of a small shack, about 11 yards south of the center line of the highway, and about 1 foot lower than the highway. A standard reference-mark disk, stamped "WALTON NO. 3 1933" and set in the top of a concrete post. (4.669 meters

or 15.318 feet.)

V 68.—About 0.9 mile west along U. S. Highway 17 from Jacksonville, Onslow County, thence about 2.5 miles northwest along U. S. Highway 2.58, about 12 yards northeast of the center line of the highway, about 1 yard north of pole 1197, and about 1 foot lower than the highway. A standard disk, stamped "V 68 1984" and set in the top of a concrete post, (11.937 meters or 39.163

W 68.—About 0.9 mile west along U. S. Highway 1.7 from Jacksonville, Onslow County, thence about 4.7 miles northwest along U. S. Highway 258, about 300 feet northwest of the J. A. Huffman house, about 12 yards southwest of the center line of the highway, about 2½ yards northeast of nole 1152, and about 1 foot lower than the highway. A standard disk, shamped "W 68 1834" and set in the top of a concrete post. (14,000 meters or 45,932 feet.)

S. COAST AND GEODETIC SURVEY

X 68.—About 5.8 miles south along U. S. Highway 258 from Richlands, Onslow County, about 40 yards southenst of the house of Miss Lea Frank, about 10 yards sant of the house of Miss Lea Frank, about 10 yards as to the center line of the highway. A standard disk, stamped "X 68 1924" and 2 feet higher than the highway. A standard disk, stamped "X 68 1924" and che Richlandson properly, about 15. Highway 258 from Richlands, Onslow County, about 8 yards northeast of the center line of a dirt road leading to the Righway about 8 yards northeast of a cedar tree, 2 feet southwest of a fence, and about 2 feet higher than the highway. A standard disk, stamped "X 68 1934" and set in the top of a concrete price. (13.84) meters or 45.407 feet.)

Z 68.—About 1.4 miles south along U. S. Highway 258 from Richlands, Onslow County, at a concrete bringe over New River, in the top of the nighway, and about level with the highway. A standard disk, stamped "X 68 1934". (S.559 meters or 22.065 feet.)

R. M. 3 Richlands.—At Richlands, Onslow County, on U. S. Highway 258, 1845 feet southwest of triangulation stainon Richlands, described below, 638 feet east of T-polo in the northeast corner of a T-road intersection, 36 feet north of the center line of the highway, and set in the top of a concrete post. (18.850 meters or 60.558 feet.)

Richlands.—At Richlands, Onslow County, on U. S. Highway 258, 104. Richlands, and set in the top of a concrete post. (18.850 meters or 60.558 feet.)

Righway. A standard reference-mark disk, stamped "RICHLANDS NO. 3 1933" and set in the top of a concrete post. (18.850 meters or 60.558 feet.)

Righmay. A standard reference-mark disk, stamped "RICHLANDS NO. 3 1933" and set in the top of a concrete post. (18.850 meters or 60.558 feet.)

Ray 13 feet west of the northwest corner of the church, 39 feet west of the course of the law, 37 feet southeast of the center line of a walk leading to the church entime. (10.81 meters or 6.242 feet.)

R. M. I Richlands.—A Richlands.—B Richlands.—B Richlands.—B Richlands.—B Ri

in the vicinity of Richlands additional bench marks pages 237 and 238. \mathbf{For}

A 69.—About 24 miles northwest along U. S. Highway 258 from Richlands, Onslow County, about 0.3 mile east of the junction of State Highway 24, 40.6 feet north of the center line of the highway. Lear a small clump of pine trees, near a pole, and about 2 feet lower than the highway. A standard disk, stamped "A 69 1984" and set in the top of a concrete post projecting about 6 inches above ground. (22.186 meters or 71.548 feet.)

B 69.—About 2.7 miles northwest along U. S. Highway 258 from Richlands, Onslow County, at the Y-junction of State Highway 24, about 13 yards east of the center line of the highway leading north, about 8 yards north of the highway leading east, and about 1 foot higher than the highway. A standard disk, stamped "B 69 1934" and set in the top of a concrete post. (18.792 meters or 61.632 feet.)

C 69.—About 2.7 miles northwest along U. S. Highway 258 from Richlands, Onslow County, thence about 0.2 mile west along State Highway 24, about 11 yards south of the center line of the highway. At the edge of a woods, and about 1 foot higher than the highway. A standard disk, stranped "C 69 1934" and set in the top of a concrete post. (21.846 meters or 71.673 feet.)

D 69.—About 2.7 miles northwest along State Highway 24, about 270 feet east of the Whater Whaley Phouse, about 11 yards north of the center line of the highway. At the edge of a woods, and about 1 yards north of the center line of the highway. E66.—About 5½ miles east along State Highway 24 from the school at Beulaville, Duplin Connty, about 1.3 miles west along the center than the highway. Be 66.—About 5½ miles east along state Highway 24 from the school at Beulaville, Duplin Gonwey, about 1.3 miles west of the Whighway, and the objews, about 1.3 miles west of the Pupin-Connty, line opposite a small shock, about 10 yards north of the center line of the highway, and about 1 foot lower than the highway. A standard disk, stannied "Day of the center line of the highway, and about 1 toot lower than the highway. A standard disk, stannied "Day o

A 68—About 0.8 mile east along State Highway 58 from Castalia, Nash County, about 50 yards seat of the center line of the highway, and about 1 foot lower than the highway. A standard disk, stamped "A 68 183" and set in the top of a concrete post. (52.497 meters or 30.347 feet.)

G 8.—About 1.0 yards west theretes or 30.347 feet.)

G 8.—About 1.0 miles northwest along State Highway 58 from Castalia, Nash County, about 109 yards northwest of a litt road, in the top of a large embedded boulder. A standard disk, stamped "B 68 1804" (97.200 meters or 319.061 feet.)

C 68.—About 1.1 miles northwest along State Highway 58 from Castalia, Nash County, thence about 69 yards northwest along State Highway 56, about 69 free south of the W. E. Williams service satious, bout 20 feet south of the center line of the highway, and about 2 feet lower than the highway, and about 2 feet lower than the highway. A standard disk, stamped "C 68 1804" and set in the top of a concrete post. (97.68 meters or 317.473 feet.)

D 8.—About 1.1 miles northwest along State Highway 58 from Castalia, Nash County, thence about 0.2 mile west along State Highway 58 from Castalia, Nash County, thence about 0.2 mile west along State Highway 58 from Castalia, Nash County, thence are of 318.762 feet.)

E 86.—In Frankin County, about 1.2 will north of the northwest corner of the barn, near the free corner, and about 2 feet higher than the highway, about 49 feet south of the highway, about 2 feet higher than the highway, about 2 feet higher than the highway, about 2 feet lower of the barn, near the free corner, and about 2 feet higher than the highway, about 2 feet lower of the canter line of the highway, a the edge of a woods and about 30 feet north of the center line of the highway, at the edge of a woods, and about 2 feet with the highway, in the top of a concrete post projecting about 1 for above ground. (88.183" mades in the top of a concrete post projecting about 1 for above ground. (19.687 meters or 32.336 feet.)

Feet was a standard disk, stamped "G

K 68.—About 0.7 mile east along State Highway 56 from Louisburg, Franklin K 68.—About 0.4 mile east of the east city limit, about 40 yards northwest of the junction of two dirt roads with the highway, at the southwest corner of the J. O. Siedge yard, about 30 yards northwest of the J. O. Siedge store, about 30 feet north of the center line of the highway, and about level with the highway. A standard disk, stamped "K 68 1934" and set in the top of a concrete post. (65.417 meters or 214.622 feet.)

LOUISBURG.—At Louisburg, Franklin County, about 50 feet northwest of the intersection of Main and Nash Streets, about 40 feet west of the center line of Main Street, and in the east wall of the First National Bank Building. A standard disk, stamped "LOUISBURG 1934" and set vertically. (68.863 meters

standard disk, stamped "LOUISBURG 1934" and set vertically. (65.305 meters or 225,928 feet.)

NAC 47 (N. C. Geod. S.).—At Louisburg, Franklin County, at the northwest corner of the intersection of Main and Franklin Streets, about 6 yards north of the north curb of Franklin Street, about 1 yard west of the west curb of

with the street. A North Carolina Geodetic op of a concrete post. (72.160 meters or Survey 236.745

N+C 47 (N, C. Geed, S.)—At Louisburg, Frankin County, at the northwest corner of the Linchsburg College campus, about 45 yards north of the north court of the Linchsburg College campus, about 45 yards north of the north curb of the contract of the Linchsburg College campus, about 45 yards north of the north curb of College Street, about 2 yards west of the west curb of Main Street, and about in the top of a concrete past. A North Carolina Geodetic Survey standard disk, see in the top of a concrete past. A North Carolina Geodetic Survey standard disk, see the North Meridian—At Louisburg, Frankin County, about 50 parts west of the building about 2 feet alone to the bilding. The top of a grantic post, west of the surface of Main Street, on the high school grounds, and about 50 yards southwest of the southwest corner of the briefs will, hout 60 feet east of the invescetion of Main and College Street, alone 16 yet on the briefs will, hout 60 feet east of the invescetion of Main Street, and about 5 feet higher than the ground. A standard disk, stamped "L 88 1987" and set vertically. (88.430 meters or 228.507 feet.)

Top of rail opposite Seaboard Air Line Kallway milepost 130, (272.8 feet.) M 88.—About 138 miles southwest along the Seaboard Air Line Railway from Louisburg, Franklin County, about 40 feet northeast of a road crossing, about 90 feet north of State Highway 56, about 20 feet north of the rurel, and about 91 feet.)

Top of rail opposite Seaboard Air Line Railway milepost 138, (272.8 feet.) The top of a concrete post, (100.0018) meters or 283.82 feet.)

The top of a concrete post, (200.0018) meters or 283.82 feet.)

The top of a concrete post, (200.0018) meters of 283.82 feet.)

The top of rail opposite Seaboard Air Line Railway milepost 138, (330.2 feet.) The Kallway from Louisburg, Franklin County, about 40 feet north of the ground Air Line Railway from Louisburg Franklin County, about 5 feet higher than the highway 5, about 0.1 mile northeast of milepost 132, about 40 feet south of the center line of Stat

about 25 yards southeast of the center line of the highway. A standard triangulation disk, stamped "EL 66.128 CHOCOWINITY 1931" and set in the perpose of noncrete post projecting about 5 inches above ground. (20.138 meters or 66.089 free.)

R. M. 1 Chocowinity.—About 6.1 miles south along the Norfolk Southern Rail.

K. M. I. Chocowanity—About 6.J. miles south along the Nortoik Southern Railrad from the station at Marsden, Beaufort County, about 130 yards south and
mileyses & about 100 yards southwest of the intersection of U. S. Highway 17
and a dirt road leading across the trade, about 18 yards southeast of the
southeast rail, about 100 yards northwest of the catter line of the highway,
and 2 feet north of the first pole southwest of the catter line of the highway,
and 2 feet north of the first pole southwest of the catter line of the highway,
and 2 feet north of the first pole southwest of the catter line of the highway,
and 2 feet north of the first pole southwest of the catter line of the highway,
and 2 feet by a concrete post projecting about 7 inches above ground.
(2.27)
F. 26.—About 58 miles south along the Norfolk Southern Railroad from the
Wilmar, 50 feet south of the center line of a dirt road, and 22 feet west of the
Wilmar, 50 feet south of the center line of a dirt road, and 22 feet west of the
C. 26.—About 38 miles north along the Norfolk Southern Railroad from the
G. 26.—About 38 miles north along the Norfolk Southern Railroad from the
C. 26.—About 48 miles north along the Norfolk Southern Railroad from the
C. 27. Anaceboro, Craven County, about 35 mile south of milegost 11, 75 feet east of Tailroad bridge 11.5, at a culvert under U. S. Highway 14, in the
C. 27. Anaceboro, Craven County, about 36 feet acts of the east rail of
C. 28.—About 19 miles north along the Norfolk Southern Railroad from the
studion at Vanceboro, Craven County, about 365 feet north of the south end of
C. 38. A. Vanceboro, Craven County, about 365 feet north of the south end of
C. 38. A. Vanceboro, Craven County, about 367 feet west of the east rail of
C. 38. A. Vanceboro, Craven County, and the cancer line of
C. 38. A. Vanceboro, Craven County, and the cancer line of
C. 38. A. Vanceboro, Craven County, and the cancer line of
C. 38. A. Vanceboro, Craven County, and the cancer line of
C. 38. A. Vanceboro, Craven County, and the cancer

K. M. 3 Askin.—About 50 miles north along the Norfolk Southern Railroad from Bridgeton, Craven County, about 1.6 miles south of the station at Askin, about 95 feet north of the center of the intersection of a brick road with U. S. Highway 17, in the acute angle of the intersection, 25 feet west of the west edge of the highway, and 20 feet northeast of the northeast edge of the brick pavement. A standard reference-mark disk, stamped "EL 24.501 FT ASKIN NO 3 1831" and set in the fopp of a concrete post projecting about 4 inches above ground. (7.449 meters or 24.439 feet.)

S. COAST AND GEODETIC SURVEY

Askin.—About 5.0 miles north along the Norfolk Southern Railroad from Bridgeton, Craven County, about 1.6 miles south of the station at Askin, about 60 feet east of the enter of the intersection of a brick road with U. S. Highway 17, 56 feet west of the vest rail, and 41 feet northeast of the center line of the road. A standard triangulation-station disk, stamped "EL 24,000 FT ASKIN 1812" and set in the top of a concrete post projecting about 6 inches above R. M. 1 Askin.—About 5.0 miles north along the Norfolk Southern Railroad from Bridgeton, Craven County, about 1.6 miles south of the station at Askin, about 42 yards south of the center of the intersection of a brick road with U. S. Highway 17, and about 35 feet west of the center line of the highway. A standithe top of a concrete post projecting about 5 inches above ground. (7.237 meters or 23.743 feet.)

or 23.43 reet.)

P 25.—About 28 miles north along the Norfolk Southern Railroad from the crossing of U. S. Highway 17 at Bridgeton, Craven County, about 3.8 miles south of Askin, about 0.4 mile north of milepost 27, about 75 feet west of the west rail, at a 24-inch concrete pipe culvert under U. S. Highway 17, in the top of the highway. A standard disk, stamped "15.125 P 26 1932." (4.591 meters or 15.062 feet.)

Q 26.—About 0.4 mile north along the Norfolk Southern Railroad from the crossing of U. S. Highway 17 at Bridgeton, Craven County, about 4½ rails south of milepost 29, opposite a small culting, about 100 feet cast of the center line of U. S. Highway 17, and 38 feet west of the west rail. A standard disk, stamped "7538 Q 25 1932" and set in the top of a concrete post projecting about R 26.—At Bridgeton, Craven County, on the Norfolk Southern Railroad, at the crossing of U. S. Highway 17, at a double concrete culvert under U. S. Highway 17, in the top of the north end of the west head wall, 19 feet south of the south rail of the south track, and 16 feet west of the center line of the highway. A standard disk, stamped "8.386 R 26 1932." (2.537 meters or 8.323 feet.)

About 1.2 miles north along the Norfolk Southern Railroad from the Union Ration at New Bern, at a wooden tresile over Neuse River, top of rail opposite S.—At New Bern, at a wooden tresile over Neuse River, top of rail opposite S.6.—At New Bern, at a wooden tresile over Neuse River, top of rail opposite S.6.—At New Bern, at a wooden tresile over Neuse River, stamped "45.374 feet.)

S 26.—At New Bern, at a wooden tresile over Neuse River, top of rail opposite S.6.—At New Bern, at a wooden tresile over Neuse River, stamped "45.374 feet.)

S 28.—At New Bern, or the platform. A standard disk, stamped "45.374 feet.)

For additional bench marks in the vicinity of New Bern, see pages 307 and 308.

T 26.—At New Bern, Craven County, at the corner of Pollock and Craven Streets, at the old post office, in the face of a stone column at the southeast entrance on Craven Street, 3 feet from the corner, and about 4 feet above the sidewalk. A standard disk, stamped "17.362 T 26 1932" and set vertically. (5.272 meters or 17.297 feet.)

9 (U. S. E.).—A. New Bern, Craven County, at the southeast corner of East Front and Pollock Streets, in the north, wall of a large berke residence, about 1 foot from the northeast corner, and about 2 feet above ground. A Corps of Engineers U. S. Army, standard disk, stamped "9 U. S. E. 7.155 FT." (2.160 meters or 7.087 feet.)

14.2 (A. C. L. R. R.).—About 1.2 miles southwest along the Atlantic Coast Line Sale of Park Avenue, in line with the east side of Second Street, and at the edge of the right-of-way. The highest point of a vertical rail projecting about 2 U. 26.—About 2.2 miles southwest along the Adlantic Coast Line Railroad from the Union Station at New Bern, Claven County, about 22.

10 26.—About 2.2 miles southwest along the Atlantic Coast Line Railroad from the Union Station at New Bern, Claven County, about 22.

11 E. M. 175 A.—About 3% miles southwest along the Atlantic Coast Line Railroad from the Union Station at New Bern, Claven County, about 225 feet south of milepost W 82, about 01 mile south of a small wooden trestle, at the west one of two culverts, and on the east end of the north concrete coping. An outlined square. (5.322 meters or 17.461 feet.)

V 26.—About 15½ miles southwest along the Atlantic Coast Line Raitroad from the Union Station at New Bern, Conven Convent Co

þ standard disk, stamped "H 12 1932." (9.834 meters

J 27.—About 4.2 miles northeast along the Atlantic Coast Line Rallroad from the station at Jacksouville, Onslow County, about 0.3 mile northeast of milepost W 53, about 300 yards north of the crossing of the Swansboir road, about 53 feet west of the west rail, and 24 feet east of the center line of U. S. Highway 17. A standard disk, stamped "J 27 1932" and set in the top of a concrete post. (13.531 meters or 44.393 feet.)

K 27.—About 2 miles northeast along the Atlantic Coast Line Railroad from the station at Jacksonville, Onslow County, about 25 yards north of milepost W 51, west of the track, at a box culvert under U. S. Highway 17, and in the top of the south end of the east head wall. A standard disk, stamped "K 27 1932." (8.069 meters or 26.473 feet.)

For additional bench marks in the vicinity of Jacksonville, see pages 177, 314, and 315.

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LINE 9, NAVASSA TO CHADBOURN, N. [First-order leveling]

through Whiteville to Chadbourn. The field work was done in March 1932 by a party in charge of W. M. Gibson, junior hydrographic and geodetic engineer.

For additional bench marks in the vicinty of Navassa, see pages 37, 141, 230, and 322. follows the Atlantic Coast Line Railroad from Navassa

B 29—About 0.5 mile east along the Atlantic Coast Line Railroad from Leland, Brunswick County, about 6% rails west of milepost W 7, about 13 rails east of the middle of a wooden trestle, 23.7 feet south of the south rail, and 23 feet north of the center line of a dirt road paralleling the track. A standard disk, stamped "12:287 B 29 1832" and set in the top of a concrete post projecting about 5 inches above ground. (3.878 meters or 12.723 feet.)

C 29.—About 2½ miles west along the Atlantic Coast Line Railroad at a road crossing (24.6 feet.)

C 29.—About 50 yards west of Highway Traffic Station 11, 37 feet north of the south rail, and 70 feet south of the center line of the highway. A standard disk, stamped "18.814 C 29 1822" and set in the top of a concrete post projecting about ½ foot above ground. (20.495 meters or 67.241 feet.)

D 29.—About 4.7 miles west along the Atlantic Coast Line Railroad from Leland, Brunswick County, about 800 feet west of milepost W 12, about 800 feet cast of the L. E. Ward scrive station, opposite a whistle post, about 650 feet as to do the L. E. Ward scrive station, opposite a whistle post, about 650 feet morth of the porth rail, in the west end of the south coping of a concrete lighway culvert, and 15.5 feet south of the center line of U. S. Highway 74. A standard disk, stamped "30.34 D 29 1382" (15.476 meters or 50.774 feet.)

E 29.—About 0.6 mile west along the Atlantic Coast Line Railroad, about 150 feet southeast of power-trunsmission line pole 346, about 135 feet southeast of power-trunsmission line pole 346, about 351 feet south feet to the highway. A standard disk, stamped "48.350 E 29 1362" and set in the top of a concrete post projecting about ½ foot above ground. (14.805 meters or 48.770 feet.)

E 29.—The Brunswick County, about 2½ miles east along the Atlantic Coast Line Railroad, about 100 meters or 62.697 feet.)

G 159—The brunswick County, about 2½ miles east of the Heintz Place service station, about 500 mile east of the south coping. A standard disk, stamped "62.3

D 25.—About 3.4 miles south along the Norfolk Southern Rallroad from Edenton, Chowan County, about 4½ rails north of the station at Waddill, and about 75 feet cast of the east rail of the main track. A stardard disk, stamped "14.534 D 25 1932" and set in the top of a concrete post projecting about 6 inches above ground. (4.14 tacters or 14.432 feet.)

Albemarle.—About 2 miles south along the Norfolk Southern Railroad from the station at Waddill, Chowan County, at the bridge over Albemarle Sound, and on the top of the west end of the north concrete pier of the draw. A chiseled square. (1.532 meters or 6.342 feet.)

E 25.—At Mackeys, Washington County, about 35 feet southwest of the south end of the Norfolk Southern Railroad station, and about 30 feet northwest of the porthwest rail of the main track. A standard disk, snamped "8.068 E 25 1932" and set in the top of a concrete post projecting about 3 inches above ground. (2.442 meters or 8.032 feet.)

F 25.—About 7 miles northeast along the Norfolk Southern Railroad from Plymouth, Washington County, about 2½ miles southwest of Mackeys, about 15 feet northwest rail, at the southwest corter of a pine woods, and 4 feet northwest of no concrete post projecting about 4 feet northwest of the center of a wagni-raad crossing, 27 feet northwest of the concrete post projecting about 4 februard action of a pole. A standard disk, stamped "10.682 F 25 1932" and set in the top of a concrete post projecting about 4 inches above ground. (3.240 meters or 10.592 feet.)

10.550 (feet)

10.550

B (U. S. D. A.).—At Plymouth, Washington County, one block north and one block west of the county courthouse, on Main Street, alout 50 feet west of the blinkley Botel, and in the intersection of State Highway 97, in front of the Brinkley Hotel, and in the curb at the edge of the sidewalk. A United States Department of Agriculture standard cup, stamped "B 13.071 FT" and riveted on the top of a

S. COAST AND GEODETIC SURVEY

pipe projecting about 9 inches above the sidewalk. or 13.015 feet. iron

Plymouth, φ vicinity the ij. marks For additional bench 89

M. 25.—Abbut 10 mile southwest along U. S. Highway 64 from the city linits at Pymouth, Washington County, at the Intersection of the Nortolk Southern Railroad, about 25 yards north of milepest 95. 25 feet south of the center line of the highway, 25 feet east of the east rin, and about 5 feet southwest of a pole. A standard disk, samped "18212 M 25 1827" and set in the top of a concrete post projecting about 6 inches above ground. (5.334 meters of a pole. A standard disk, samped "1822 M 25 1827" and set in the top of a concrete post projecting about 6 inches above ground. (5.334 meters or 18.136 feet.)

Pymouth, at the crossing of the Norfolk Southern Railroad from 18. Though M. Washington Couury, shout 0.5 meters of a concrete post projecting about 6 inches south or allepost 94, at a road crossing, 38 feet north of the center line of the broad, and 19 feet west of the west rail. A standard disk, samped "32.14 N 25 1822" and set in the top of a concrete purpolecting about 5 inches above ground. (10.070 meters or Ambon.—About 45 miles southwest along the Norfolk Southern Railroad from Pymouth, Washington County, and Ausbon, about 100 yards north of the north end of the loading platform, and 21 feet west of the west rail. A standard disk, stamped "4992 & 1829. In 1827 and set in the top of a concrete post projecting about 3 inches above ground. (12.45) meters of 40.550 feet.)

P. T. S. J. C. S. S. J. About 77 miles southwest along the Norfolk Southern Railroad from Pymouth, Washington County, at Hisson, about 20 mile north of an dirt road. A standard disk, stamped "43.45 P 25 1332" and set in the top of a concrete post projecting about 6 inches above ground. (18.225 meters of 38.36 feet.)

P. T. S. J. U. S. S. J. About 77 wards south of a tool nones, 40 feet center line of a dirt road. A standard disk, stanged "43.45 P 25 1332" and set in the top of a concrete post projecting about 6 inches above ground. (18.225 meters of 38.36 feet.)

P. T. S. J. U. S. S. J. S

T. 25.—At Pinetown, Benufort County, about 175 yards south of the Norfolk Southern Railroad station, about 80 feet north of a road crossing, on the east and 21 feet north of a switch stand. A standard disk, stamped "42.700 T 25 1932" and set in the top of a concrete post projecting about 9 inches above ground. (12.997 meters or 42.641 feet.)

north of the Norfolk Southern Railroad station, about 65 feet north of a tool house, about 10 feet west of the west rail, and 8 feet north of the edge of a dirt road. A United States Geological Survey standard cap, stamped "43.287 PRIM. TRAV. STA. NO. 11913" and riveted on the top of a 3½-inch iron pipe projecting about 8 inches above ground. (13.177 meters or 43.232 feet.) U 25.—About 1.9 miles south along the Norfolk Southern Railroad from Pinetown, Beautort County, about 30 feet west of the freight platform at Walla Watta, about 70 feet west of the west rail, 27 feet north of the north edge of a road, and 5 feet south of a garden fence. A standard disk, stumped "33.707 U 25 1932" and set in the top of a concrete post projecting about 6 inches above ground. (10.257 meters or 33.652 feet.)

Boundary Monument (7).—About 1.6 miles northeast along the Norfolk Southern Railroad from Slatestone, Heardort County, 8 rails south of trestle 1182, at a property corner, and about 8 feet west of the west rail. The top of a granite post projecting about 5 inches above ground. (11.285 meters or 36.968 feet.) the Norfolk Southern S.).—At Pinetown, Beaufort County, about 100 yards

1932" and ground (C V 25.—At Slatestone, Beaufort County, across the track from the Norfolk Southern Railroad station, about 40 feet north of the center line of a road, and 48 feet west of the west rail. A standard disk, stamped "40.259 V 25 1832" and set in the top of a concrete post projecting about 6 inches above ground (12.254 meters or 40.203 feet.)

W25.—About 69 miles northenst along the Norfolk Southern Railroad from the station at Washington, Beaufort County, at Alligoods, about 30 feet north of the north of a telephone booth, and about the north end of the west rail of the main track. A standard disk, stamped '87.277 W 25 1982" and set in the top of a concrete post projecting about 6 inches above ground. (1.135 meters or 37.21 feet.)

30.5 (U. S. G. S.).—About 5.6 miles northeast along the Norfolk Southern Railroad from the station at Washington, Beaufort County, at bridge 120.7, and in the top of the east concrete wing wall of the south abutunent. A United States Geological Survey standard disk, stamped '30.787, FEET 1914." (9.367 meters or 30.782 feet.)

X 25.—About 4.3 miles east along the Norfolk Southern Railroad from the station at Washington, Beaufort County, at Bunyon, about 240 feet east of the crossing of U. S. Highway 284, at the west end of a concrete highway bridge, and in the top of the south balistrade. A standard disk, stamped "18.717, X 25.1832." (5.87 meters or 18.68 feet.)

Bunyon, top of east rail of the Norfolk Southern Railroad from the station at Washington, about 100 feet west of milepost, 123, the top of the inside spike of the south will. (1.63 feet.)

About 1.3 miles east along the Norfolk Southern Railroad from the station at Washington, at mileage 124.4, at a dirt-road crossing, top of south rail at the center line of the road. (14.0 feet.)

About 1.9 miles east along the Norfolk Southern Railroad from the station at Washington, Beaufort County, at Woodantown, about 0.4 mile west of milepost 124.4 feet north rail. A standard disk, stamped "13.539 Y 25. miles and a set in the top of a concrete post projecting about 4 inches above ground. (4.124 meters or 13.530 feet.)

R. M. Bridge=R. M. Switch.—At Washington, Beaufort County, about 530 feet onst of the Norfolk Southern Railroad from the station at Washington, top of south rail at mileage 124.8. (12.1 feet.)

R. M. B. Kiefer each of the south of the south of the north rail o .280 feet.)

At Washington, about 340 Level of the Norfolk Southern of the Pamiko River, top of rail of the Norfolk Southern of the Pamiko River, top of rail of the Norfolk Southern of the Crossing of U. S. Highway 264. (6.3 feet.)

12 (U. S. G. S.).—At Washington, Beaufort County, at the county courthouse, 12 (U. S. G. S.).—At Washington, Beaufort County, at the east wall, 14 foot north of the southeast corner of the building, in the east wall, indicated that this beach mark had settled about 0.1 foot

and about I foot above ground. A United States Geological disk, stamped "11.332 RALEIGH N. CAR." (3.436 meters Z 25.—At Washington, Beaufort County, at the post office of the steps leading to the south entrance, and in the top coping. A standard disk, stamped "11.158 Z 25 1932." (3.383) a, at the west end p of the concrete meters or 11.099 Survey standard or 11.273 feet.)

WASHINGTON.—At Washington, Beaufort County, about 1 block south and 1 block west of the post office, at the Citizens Trust Co. Bank building, in the south wall, west of the entrance, and about 5 feet above the sidewalk. A standard disk, stamped "13.720 WASHINGTON 1932." (4.164 meters or 13.661

6.2 (U. S. E.).—At Washington, Beaufort County, at the buoy yard of the U. S. Lighthouse Service, and on the top of the second cast-iron dolphin from the down-stream side of the yard. A chiseled square. (1.886 meters or 6.188

RV 3 (N. S.

RV 3 (N. S. R. R.).—At Washington, Beaufort County, on the Norfolk Southern Railroad, at the drawbridge of the trestle over l'amilteo River, and in the top of the west end of the morth concrete pier of the drawbridge. A standard Monel-nortal rivet. (1.340 meters or 6.365 feet.)

About 22 miles northeast along the Norfolk Southern Railroad from the station at Marsden, at the crossing of U. S. Highway 17, top of east rull at the center line of the highway. (5.3 feet.)

A 26.—About 2.0 miles northeast along the Norfolk Southern Railroad from the station at Marsden, Beaufort County, about 300 yards south of the crossing of U. S. Highway 17, about 60 feet southwest of milepost 128, 27 feet northaust of the center of a farm-road crossing, and 8 feet east of the east rull. A standard disk, stamped "4,669 A 26 1362" and set in the top of a concrete post projecting about 4 inches above ground. (1.306 meters or 4,613 feet.)

Porter Junction, top of west rail of the Norfolk Southern Railroad at the crossing of the center line of the Atlantic Coast Line Railroad. (5.7 feet.)

B 26.—At Marsden, Beaufort County, 49 feet north of the north and of the Norfolk Southern Italiroad station, 29 feet west, of the west rull of the main track, and 25 feet, north of the sorthern Railroad station, at the crossing of U. S. Highway 264, 24 feet west of the west rail of the main track, and 25 feet, north of the center line of the highway. A standard disk, stamped "40,118 C 26 1382" and set in the top of a concrete post projecting about 4 inches above ground. (12,210 meters or 40,059) feet.)

feet.)

For additional bench marks in the vicinity of Marsden, see page 290

D 26.—About 27. miles south along the Norfolk Southern Railroad from the station at Marsden, Beaufort County, about 0.6 mile north of Hackney, 33 feet south of the center line of a road, 28 feet west of the west rail, and in line with a row of poles. A standard disk, stamped "56.355 D 26 1932" and set in the top of a concrete post projecting about 5 inches above ground. (17.153 meters or 56.276 feet.)

E 26.—About 4.6 miles south along the Norfolk Southern Railroad from the station at Marsden, Beaufort County, at a concrete box culvert on U. S. Highway 17, in the top of the west concrete coping, I foot north of the south culd, and about 55 feet east of the east rail. A standard disk, stamped "56.240 E.26 1932" and set in the top of a concrete post. (17.125 meters or 56.184 feet.)

R, M. 3 Chocowinity.—About 6.1 miles south along the Norfolk Southern Railroad from the station at Marsden, Beaufort County, about 50 yards south of milepost 6, about 20 yards southeast of the southeast of the southeast rail, at the intersection of U. S. Highway 17 and a dirt road leading across the track, about 7 yards northwest of the center line of the highway, about 7 yards northeast of the county into of U. S. Highway 17 and about 3 feet southwest of the crossing sign. A standard reference-mark disk, stamped "EL 64.394 FT CHOCOWINITY NO 3 1381" and set in the top of a concrete post projecting about 1 inch above ground. (19.774 meters or 64.875 feet.)

from the station at Marsden, Beanfort County, about 100 yards south of milepost 6, about 50 yards southeast of the southeast rail, about 50 yards south of the intersection of U. S. Highway 17 and a dirt road leading across the track, and

Swann, Lee County, directly opposite a water tank, on a slight rise, and about 15 feet west of the track. A standard disk, stamped "322.194 Q 23" and set in the top of a concrete post. (98.230 meters or 322.276 feet.) Railroad from miles north along the Atlantic Coast Line

Norg.—It was reported in October 1934 that the concrete post projected about 1 four thouse ground and are sening stisking, indivining that the banch mark may have been disturbed or recet. This learnt mark should be used with crution.

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at the R 23.—At Jonesboro, Lee County, on the Atlantic Coast Line Railroad, at the southwest corner of the Watson Merchandiss Store, in the west brick wall, and about 2½ feet higher than the ground. A standard disk, stamped "R 23" and set vertically. (131.274 meters or 430.688 feet.)

Norg.—It was reported in October 1934 that the creetion of an adjoining building had made this bench mark inaccessible.

For additional bench marks in the vicinity of Sanford, see pages

LINE 8, PORTSMOUTH, VA., TO IACKSONVILLE, N. C. (PART)

[First-order leveling]

This line enters North Carolina in the vicinity of Moyock and follows the Norfolk Southern Railroad through Plymouth and Washington to New Bern, and the Atlantic Coast Line Railroad from New Bern to Jacksonville. The field work was done in January and February 1932 by a party in charge of W. M. Gibson, junior lydrographic and geodetic engineer.

D 24.—At Moyock, Currituck County, about 200 yards north of the Norfolk Southern Railroad stuffon, at milegwst 24, at the south ead of bridge 24, and in the top of the east end of the abunhant. A standard disk, stamped "4.905 D 24 1922." (1.481 meters or 4.850 feet.)

E 24.—About 22 miles southerst along the Norfolk Southern Railroad from Moyock, Chrituck County, about 0.2 mile south of milepost 26, at the crossing of Sinte Highway 34, about 22. Miles south west for the southwest rull, and 12.8 feet north of the north edge of the pavement. A standard disk, stamped "8.793 E 24 1932" and set in the top of a concrete post projecting about 8 inches above ground. (2.055 meters or 8.743 feet.)

About 2.2 miles south along the Norfolk Southern Railroad from Moyock, at mileage 26.2 top of west rall at the crossing of State Highway 34. (9.2 feet.)

F 24.—About 4.0 miles southe along the Norfolk Southern Railroad from Moyock, Carrituck County, at milepost 28, about 75 feet west of State Highway 34, at the south end of railroad bridge 28, and in the top of the west end of the abuntment. A standard disk, stamped "4.554 F 24 1832." (1.312 meters or 4.204 foot).

feet.)

4.24—At Snowden, Currithek County, 43 feet north of the north end of the Norfolk Southern Railroud station, about 150 feet south of the crossing of a diet rend, and 35 feet east of the east rail of the main track. A standard disk, stamped "8917 G 24 1932" and set in the top of a concrete post projecting about 6 inches above ground. (2.704 meters or 8.871 feet.)
H 24.—At Shawboo, Currithek County, 25 feet north of the northened of the Norfolk Southern Railroad station, about 0.4 mile north of the crossing of State Highway 30, 27 feet east of the east rail of the main track, and 2 feet west of a pole. A standard disk, stamped "94,715 H 24 1332" and set in the lop of a concrete post projecting about 6 inches above ground. (4.470 meters or 14.665 feet.)

About 0.4 mile south along the Norfolk Southern Railread from Shawboro, on of west rail at the crossing of State Highway 30. (13.9 feet.)

K. M. Scregoxy—A Gregoxy. Chritishek Comity, about 227 yards northwest f a road crossing about 100 feet west of the Norfolk Southern Railread station, about 25 feet west of the center line of the road, and at the edge of a feed. A standard reference-mark disk, stamped "EL 8471 GREGORY NO 1931" and set in the top of a concrete post projecting about 5 inches above round. (2.567 meters or 8.422 feet.) ground

COAST AND GEODERIC SURVEY

E. M. 2 Gregory.—At Gregory, Currituck County, about 134 yards northwest of a road crossing about 100 feet west of the Norfolk Southern Rahlwand station, about 7 feet northeast of the conter line of the road, about 3 feet west of the end post of a gate, and at the edge of a field. A standard roference-mark disk, shamped "EL 9.518 GHEGORY NO 2 1331" and set in the top of a concrete post projecting about 10 inches above ground. (2886 meters or 9.488

Gregory—At Gregory, Currituck County, about 153 yards west of a read crossing about 190 feet west of the Norfolk Southern Rallraad station, about 78 feet northeast of the center him of the road, never the middle of a field, and about 18 feet west of a ditch. A standard trinngulation-station disk, stamped "EL 8.274 GREGORY 1931" and set in the top of a concrete post. (2.373 meters or 8.225 feet.)

R. M. I Gregory.—At Gregory, Currituck County, about 25 feet southwest of a road crossing about 100 feet west of the Norfolk Southern Railroad station, about 165 yards southeast of the post office, about 25 feet southwest of the center line of the road, and about 3 feet inside of a fence. A standard reference-mark disk, stamped "EL 9.383 GREGORY NO 1 1931" and set in the reference-mark disk, stamped "EL 9.383 GREGORY NO 1 1931" and set in the reference-mark disk, stamped "EL 9.383 GREGORY NO 1 1931" and set in the reference-mark disk, stamped "EL 9.383 GREGORY NO 1 1931" and set in the west side of the south end of the loading platform, and in the west end of the last soft at the south end of the platform, A rail spike. B 324 feet.)

J 24.—At Belerons, Canden County, 3 feet from the southwest corner of the Norfolk Southern Railroad station, and 22 feet east of the east rail. A standard disk, stamped "7.00 J 24 1932" and set in the top of a concrete post projecting about 60 feet east vol. A fander, Canden, C

at Lizabeth City, rop or west run at the crossing of State Dignway 30, 1907 feet.)

L 24.—At Elizabeth City, Pasquotank County, about 0.3 mile north of North Road, about 150 feet west of the Norfolk Southern Railread bridge at mileage 43.5, at the Chesson Manufacturing Co. plant, in the top of the north end of samil dam, and about 48 feet west of the center line of a road. A standard disk, stamped "3.622 L 24 1682." (1.089 meters or 3.573 feet.)

About 1½, miles northeast along the Norfolk Southern Railroad from the station at Elizabeth City, at a highway crossing, top of east rail at the center line of the highway. (5.2 feet.)

M 24.—At Elizabeth City, Saquotank County, in the west herick wall of the Norfolk Southern Loilroad station, about 15 feet north of the ricket windows. 3 feet south of the Virthe waiting-room door, and about 5 feet alove the plurform. A standard disk, stamped "14.780 M 24 1932" and set vertically. (4.49) necess or 14.771 feet.)

Tidal 5.—At Elizabeth City, Pasquotank County, at the southwest corner of the post office, in the granife waiter table, and about 4 feet above the concrete curh of the direvents.

N 24.—At Elizabeth City, Pasquotank County, at the southwest corner of the post office, at the city water tank, and in the southwest corner of the post office, at the city water tank, and in the southwest corner of the post office, at the city water tank, and in the southwest corner of the Calvery Baptist Church, at the vest face of the brick underpinning, and on the third red brick from the ton. A chisched cross. (25.77 meters of the Calvery Baptist Church, at the west from the south obtained trom the station at Elizabeth City, Pasquotank County, and in the top of the west of the north abutanent of a short steel deck-girder treate. A standard of a concrete-road crossing, opposite a humber mill, and in the top of the front sall of the north abutanent of a short steel deck-girder treate. A standard county, about 100 yards north of the first from the sidence of the long wards north of th

(2.548 meters or 8.364 feet.)

(2.158 meters or 8.364) feet.)

(2.16) Rightway 17 from Elizabeth Elizabeth—About 1.5 miles southwest atong U. S. Hightway 17 from Elizabeth City, Pasquotank County, about 100 yards morth of the intersection of a Troad at a red brick school, in the northwest earner of the farmyard of Mrs. J. R. High, at the middle of a small clearing among a few tree stumps, 61 feet south edge of a therroffed cow shed, and about 2 feet under ground. A standard triangulation-sintion disk, stamped "EL 8.750 ELIZABETH 1931" and set in the top of a concrete post. (2.542 meters or 8.985 feet.)

A standard croad the red brick school, in the northwest eorner of the first small building north of the cow barn. A standard reference-mark disk, stamped "EL 10.446 ELIZA-BETH NO 2 1931" and set in the top of a concrete post projecting about 6 inches above ground. (3.169 meters or 10.387 feet.)

Inches above ground. (3.169 meters or 10.387 feet.)

Inches above ground. (3.169 meters or 10.387 feet.)

In pasquotank County, about 209 yards southwest of milepost 48, bout 100 yards northwest of a farmhouse, 47 feet southwest of the intersection of the south of the southwest of the south of the south of the southwest of the south of the south of the southwest of the south of the south of the southwest of the south of the south of the south of the southwest of the south of the south of the southwest of the south of the south of the southwest of the south of the south of the southwest of the second pole south of the southwest of the south of the south of the southwest of the south of the south of the south of the southwest of the south of the southwest of the south of the sou

Norm.—This bench mark was searched for but not recovered in 1935.

V24.—About 0.3 mile north along the Norfolk Southern Railroad from Winfall, Perquimans County, about 60 feet south of the southerst corner of a Virginia Ellectric and Power Co. substation, about 50 feet cast of the east end of a cotton gin, and about 21 feet west of the west rail. A standard disk, stamped "15.761 V 24 1862" and set in the top of a concrete post projecting about 5 inches above ground. (4.786 meters or 15.702 feet.)

U 24,—At Winfall, Perquimans County, about 8 rails south of the south end of the Norfolk Southern Railroad station, 12 feet east of the east rail, 9 feet southeast of a switch stand, and about ½ foot lower than the track. A standard disk, stamped "15.505 U 24 1982" and set in the top of a concrete post projecting about 4 inches above ground. (4.710 meters or 15.453 feet.)

W 24.—About 0.2 mile north along the Norfolk Southern Railroad from the station at Hertford, Perquimans County, at the car scales platform, in the west

໘ COAST AND GEODETIC SURVEY

4 feet north of the south end, and 4 feet west of the west standard disk, stumped "9.117 W 24 1932." (2.763 meters meters

at the south end of the Norfolk Southern Rallroad station, between two sidings, about 50 feet north of a switch, and 27 feet east of the east rail of the main track. A standard disk, stamped "12.828 X 24 1982" and set in the top of a concrete post projecting about 4 inches above ground. X 24.—At Hertford, Perquimans County, about 46 yards south of the platform (3.894 meters or 12.776

14 (U. S. G. S.).—At Hertford, Perquimans County, in the wall of the county counthouse, at the west side of the front-entrance, and about 2 feet above ground. A United States Geological Survey standard disk, stamped "15.062 N C RALEIGH 1992" and set vertically. (4.575 neters or 15.040 feet.)

Y 24—About 4.2 miles southwest along the Norfolk Southern Railroad from the station at Hertford, Perquimans County, at the northwest corner of the first farm east of the station at Yeopim, 36 feet east of the east rail, and 21 feet south of the center line of a dirt road. A standard disk, stamped "15.480 Y 24 1982" and set in the top of a concrete post projecting about 4 inches above ground. (5.007 meters or 16.427 feet.)

14 (U. S. G. S.).—About 4.2 miles southwest along the Norfolk Southern Railroad from the station at Hertford, Perquimans County, about 100 yards east of the station at Yeopim, directly north of a small farmhouse owned by T. E. Mansfield, at the edge of a dirt road, and about 5 feet east of a large tree. A United States Geological Survey standard cap, stamped "15.068 N C RALEIGH" and riveted on the top of a 3½-inch from pipe projecting about 7 linehes above ground. (4.576 meters or 15.013 feet.)

Norm.—The fron pipe leans slightly and the elevation applies to the intersection of two scratches at the center of the post.

Top of west rull opposite Norfolk Southern Railroad milepost 68. (22.1 feet.)

Z 24.—In Perguinaris County, about 44 miles mortheast along the Norfolk Southern Railroad from Edenton, Chowan County, about 8 miles southwest of the santion at Yeopin, 73 feet southeast of mileyest 60, about 225 feet southwest of the W. H. Barber farmhouse, and about 25 feet east, of the cust rail. A standard disk, stamped "20.433 Z 24 1932" and set in the top of a concrete post projecting about 10 inches above ground. (6.212 meters or 20.381 feet.)

A 25.—About 28 miles northeast along the Norfolk Southern Railroad from Edenton, Chowan County, about 0.3 mile north of milepost 71, about 109 yards west of a farmhouse, 48 feet southeast of the center of the intersection of the driveway leading to the T. L. White farm, 31 feet east of the east rail, and 7 feet north of a ditch. A standard disk, stamped "17.835 A 25 1932" and set in the top of a concrete post projecting about 5 inches above ground. (5.420 meters or 17.752 feet.)

B 25.—At Edenton, Chowan County, 66 feet west of the west corner of the Norfolk Southern Railroad station baggage room, on the west dide of a street, and 7 feet south of a pole. A standard disk, stamped "17.42 B 25 1932" and set in the top of a concrete post projecting about 6 inches above ground. (5.353 meters or 11.690 feet.)

16 (U. S. G. S.)="Idal 4.—At Edenton, Chowan County, near the intersection of Broad and King Streets, at the north end of Courthouse Place, in the south wall of the courthouse, and about 5 feet east of the entrance. A United States Geological Survey standard disk, stamped "16.480 N G RALEIGH" and set vertically. (5.007 meters or 16.427 feet.)

C 25.—At Edenton, Chowan County, at the fire department building, in the middle of the east wall, about 5 feet above the sidewalk, and midway between two doors. A standard disk, stamped "16.480 N G RALEIGH" and the northeast corner of the ground. 217.172 C 25 1932" and set vertically. C 25. Test and set vertically. The set of the northeast brick b

Tidal 3.—At Edenton, Chowan County, at the foot of Broad S end of a wooden pler, and in the north side of a support of a The top of a copper bolt. (1.372 meters or 4.501 feet.) Street, at the south a front rauge light.

Ħ vicinity of. Edenton, See

Top of southeast rall opposite Atlantic Coast Line Railroad milepost W 18. (44.9 feet.)

K. M. I Hampstead.—At Hampstead, Pender County, about 0.2 mile north of the school, about 80 yards northwest of a small house in a grove of four large elm trees, and 31 feet southeast of the center line of U. S. Highway 17. A standard reference-mark disk, stamped "HAMPSTEAD NO. 1 1932" and set in 63.327 feet.)

Hampstead.—At Hampstead, Pender County, at the school, 117 feet southeast of the east corner of the main building, 77 feet southeast of the east corner of the annex, and 28 feet northeast of the northeast end of the bus shed, A standard triangulation-station disk, stamped "HAMPSTEAD 1932" and set in the top of a concrete post projecting about 6 inches above ground, (17,063 meters or 55,881 feet.)

Note. This disk is slightly tilted. This elevation applies to the "+" marked in the metal.

R. M. 2 Hampstead.—At Hampstead, Pender County, at the school, about 300 feet southeast of U. S. Highway 17. 14 feet northeast of the integration station Hampstead, described shore, about 170 feet northeast of the cast corner of the school busiding, 9 feet southeast of a 15-inch plue tree at the center of the backs stop of the school busiding and a concrete bott projecting about 6 inches above 1872 and set in the top of a concrete post projecting about 6 inches above 1872 and set in the top of a concrete post projecting about 6 inches above 2 is 25 and set in the top of a concrete post Pander County, at the school, about 200 yards southeast of the Atlantic Coast Line Ballroad treets, about 130 feet west of transpillation station attainment coast Line Ballroad treets, about 130 feet wast of the south corner of the annex to the main building A standard referencemark disk, stamped "HAMPSTEAD NO. 3 1862" and set in the top of a concrete post. I 7428 meters of 77178 feet.)

F. 183.—About 1.5 miles southwest along the Atlantic Coast Line Ballroad restricts that the ten of the southeast of the concrete post. I 17428 meters of 77178 feet.)

A 22.—About 23 miles southwest along the Atlantic Coast Line Railroad road crossing, 235 feet southeast will 60.5 feet northwest of the concrete post. I 15840 meters of 51312 feet.)

A 23.—About 23 miles southwest along the Atlantic Coast Line Railroad from the station at Hampstead, Fender County, about 7 poles southwest of a small from the station at Scotts Hill, Pender County, about 7 poles southwest of a least of the southeast rail, and 25 feet northwest of the center into of U. S. Highway 17. A standard disk, stamped "A 28.—About 14 miles northeast along the Atlantic Coast Line Railroad from the station at Scotts Hill, Pender County, about 7 poles southwest of a least of the southeast rail, and 12. Set of the restrict the southeast and an interest of 25.78 feet.

G 186.—About 14 miles northeast along the Atlanti

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S. COAST AND GEODETIC SURVEY

R. M. 3 Kirkland—In New Hanever County, about 0.9 mile southwest along the Atlantic Coast Line Railroad from the station at Scotts Hill, Pender County, about 180 yards northeast of a "STATION ONE MILE" sign, 35 feet southeast of the southeast rail, 51 feet northwest of the center line of U. S. Highway 17, and 2 feet east of a pole. A standard reference-mark disk, stamped "KIRK. IAND NO. 3 1932" and set in the top of a concrete post. (15.294 meters or 50.17 feet.)

R. M. 2 Kirkland—In New Hanover County, about 11 miles southwest along the Atlantic Coast Line Railroad from the station at Scotts Hill, Pender County, about 170 feet north of a Negro school building, about 50 feet southwest of the center line of a road leading to a church northwest of the track, 46 feet southeest of the southeast rail, and about 40 feet northwest of the center line of U. S. Highway 17. A standard reference-mark disk, stamped "KIRKLAND" 10. 2 1932" and set in the top of a concrete post. (16.692 meters or 52.795

Kirkland.—In New Hanover County, about 1.1 miles southwest along the Kirkland.—In New Hanover County, about 60 yards southeast of the track, on the grounds of a Negro school, about 40 feet northeast of the track, on the grounds of a Negro school, about 40 feet northeast of the rack, on the grounds of a Negro school, about 40 feet northeast of the northeast side of the building, and about 75 feet southeast of Lib. Rew Hanover County, about 12 miles southwest along R. M. Ikindand—In New Hanover County, about 12 miles southwest along the Atlantic Coast Line Rallroad from the station at Scotts Hill, Pender County, 90 feet west of the west corner of a Negro school, 54 feet southeast of the southeast rall, and 31 feet northwest of the center line of U. S. Highway 17, the southeast rall, and 31 feet northwest of the center line of U. S. Highway 17, the southeast rall, and 31 feet northwest of the southwest of State.—In New Hanover County, 3bout 23 miles southwest of southwest of State.

A standard reference-mark disk, stamped "KIRKLAND NO. I 1832" and set in the top of a concrete post. (16.134 meters of Scotts Hill, center line of U. S. Highway 17 opposite Atlantic Coast Line Rallroad milepost W 10, feet southwest along the Atlantic Coast Line Rallroad milepost W 10, shout 100 feet southwest of the northwest of the northwest of milepost W 10, shout 100 feet southwest of the northwest of the northwest concrete head wall, and 79 feet northwest along the Atlantic Coast Line Rallroad from the station at Scotts Hill, Pender County, about 210 Coast Line Rallroad from the station at Scotts Hill, Pender County, about 100 Coast Line Rallroad from the station at Scotts Hill, Pender County, about 100 Coast Line Rallroad from the station at Scotts Hill, Pender County, about 02 Coast Line Rallroad from the station at Scotts Hill, Pender County, about 02 Coast Line Rallroad from the station at Scotts Hill, Pender County, about 02 Coast Line Rallroad from the station at Scotts Hill, Pender County, about 02 Coast Line Rallroad from t

Coast Line Railroad from the station at Scotts Hill, Pender County, about 0.3 mile northeast of Baynead, about 0.4 mile northeast of Baynead, about 0.4 mile northeast of milepost W 7, about 1.5 yards southeast of the southeast rail, at the center of a 1-foot triangular blaze on the northwest side of a 2-blach pine tree, and about 3 feet higher than the ground. A standard disk, stamped "U 148 1935" and set vertically. (14.704

D 28.—In New Hanover County, about 56 miles southwest along the Atlantic Coast Line Railroad from the station at Scotts Hill, Pender County, about 0.5 mile southwest of milesouthwest of milesouthwest of milesouthwest of the center line of the road, and 33 feet northwest crossing, 38 feet northwest rail. A standard disk, stamped "D 28 1932" and set in the top of a concrete post. (14.240 meters or 48.719 feet.) meters or 48.241 feet.) D 28.—In New Hano

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V 148.—About 6.7 miles northeast along the Atlantic Coast Line Railroa from the station at Wilmington, New Hancover County, about 0.3 mile southwest of the station at Wilmington, New Hancover County, about 0.3 mile southwest of the southeast rail, at the center of of milegoest W 6, about 25 yards southeast of the southeast rail, at the center of 1-foot triangular blaze on the northwest side of a 16-inch pine tree, and about feet higher than the ground. (13.256 meters or 43.491 feet.) A standard disk, stamped "V 148 1" mile southwest e, and about 1935" and s Railroad and set

D L—About 6.5 miles northeast along the Atlantic Coast Line Railroad from the station at Wilmington, New Hanover County, about 0.5 mile northeast of milepost W 8, at the old D. L. Gore property 119 feet southeast of the southeast rail, and about level with the top of the rail. The top of a grante property-line past, chiseled "D.L" and projecting about 18 inches above ground. (12946)

meters or 42.474 feet.)

Norz .- This elevation applies to the high spot at the center of the letter "D."

about 18 yards southeast of the southeast rail, at the center of a 1-foot triangular blaze on the northwest side of an 18-inch pine tree, and about 3 feet higher than the ground. A standard disk, stamped "W 148 1935" and set vertically. (11.889) W 148.—About 5.9 miles northeast along the Atlantic Coast Line Rallroad from the station at Wilmington, New Hanover County, about 0.2 mile southwest of milepost W 5, about 35 yards northeast of a 24-hinch concrete pipe culvert,

meters or 38.940 feet.)

E 28.—About 5.0 miles northeast along the Atlantic Coast Line Railroad from the station at Wilmington, New Hanover County, about 50 yards southwest of milepost W 4, at the crossing of U. S. Highway 17, 15 feet southeast of the center line of the highway, and 21 feet northwest of the northwest rail. A standard disk, stanned "E 28 1832" and set in the top of a concrete post. (12.318 meters or 40.413 feet.)

Top of southeast rail opposite Atlantic Coast Line Railroad milepost W 3.

(41.3 feet.)

X 148.—About 3.9 miles east along the Atlantic Coast Line Railroad from the station at Wilmington, New Hanover County, about 0.1 mile southwest of milepost W 3, about 0.2 mile northeast of the learsall fertilizer plant, at the Kerr Avenue crossing, about 20 yards northeast of the center of the crossing, 18 feet southeast of the southeast rail, and about level with the top of the rail. A standard disk, stumped "X 148 1935" and set in the top; of a concrete post. (12.464 meters or 40.892 feet.)

About 3.2 miles east along the Atlantic Coast Line Railroad from the station at Wilmington, top of north rail at the crossing of U. S. Highway 17. (39.4)

F 28.—About 2.8 miles east along the Atlantic Coast Line Railroad from the station at Wilmington, New Hanover County, at East Wilmington, about 0.2 mile west of milepost W 2, 28 feet west of the west end of the loading platform at the station, and 21 feet north of the north rail. A standard disk; stamped "F 28 1832" and set in the top of a concrete post. (11.793 meters or 38.691 feet.) Y 148.—At Wilmington, New Hanover County, about 1.0 mile northeast along the Atlantic Coast Line Railroad from the station, at the junction of the New Bern branch with the branch leading to Wilson, 89 feet northeast of a "STATION ONE MILE?" sign, 28 feet southcast of the southcast rail of the main track, and about level with the top of the rail. A standard disk, stamped "Y 148 1935" and set in the top of a concrete post. (8.570 meters or 28.117 feet.)

Top of southcast rail of southcast track opposite milepost W 1 of the Atlantic Coast Line Railroad branch leading to Wilson. (30.9 feet.)

Tidal 5 (U. S. E.).—At Wilmington, New Hanover County, at the post office, and on the curb at the northwest corner of the lawn. A chiscled cross. (9.707)

and on the curb at the northwest corner of the lawn. A chiseled cross. (9.7 meters or 31.84 feet.)

Tidal 6 (U. S. E.).—Destroyed prior to 1937. (10.353 meters or 33.966 feet.)

Tidal 7 (U. S. E.).—Destroyed prior to 1937. (10.345 meters or 33.940 feet.)

Tidal 4.—At Wilmington, New Hanover County, at the Feoples Savin Bank & Trust (40., at the entrance, and on the west corner of the bottom ste Savings

Bank & Trust ('o., at the entrance, and on the west corner of the bottom step. A chiseled cross. (7.840 meters or 25.787 feet.)

6.3 (City of Wilmington).—At Wilmington, New Hunover County, at the custombouse, and 6 feet northwest of the northwest corner. A chiseled cross, an sidewalk.

> COAST AND GEODETIC SURVEY

WILMINGTON.—At Wilmington, New Hanover County, at the northeast corner of the intersection of Third and Princess Streets, at the west entrance to the city hall, at the south end of the steps, in the west face of the coping, and about 6 feet higher than the ground. A standard disk, stamped "WILMINGTON 1932" and set vertically. (11.720 meters or 38.451 feet.)

18. M. 2 Wilmington.—At Wilmington, New Hanover County, at the city waterworks, 147 feet west of triangulation station Wilmington, described below, at the northeast corner of the northwest settling basia, and in the top of the wall at the corner of a set-back. A standard reference-mark disk, stamped with the former of a set-back.

wall at the corner of a set-back. A standard reference-marker and the corner of a set-back. A standard reference-market in the corner of a set-back. A standard reference-market in the corner of a set-back. A standard reference-market in the corner of a set-back. A standard reference-market in the corner of a set-back. A standard reference-market in the corner of a set-back. A standard reference-market in the corner of a set-back. A standard reference-market in the corner of a set-back.

Wilmington.—At Wilmington, New Hanover County, at the city waterworks, east of the east end of Hilton Bridge over Northwast River, 27 feet east of the intake pipe to the smaller one of two water tanks, and 18 feet from the nearest leg. A standard triangulation-station disk, stamped "WILMINGTON 1932" and set in the top of a concrete post. (10.927 meters or 35.850 feet.)

R. M. 1 Wilmington.—At Wilmington, New Hanover, County, at the city waterworks, 114 feet south of triangulation station Wilmington, described below, at the southeast serthing basis, in the top of the south wall, and 2.5 feet west of the southeast corner, inside the railing. A standard reference-mark disk, stamped "WILMINGTON NO. I 1932." (10.888 meters or 35.722 feet.)

pages 36, 37, and 234. For additional bench marks in the vicinity of Wilmington,

Z 148.—In New Hanover County, about 1.2 miles east along the Atlantic Coast Line Railroad from the station at Navassa, Brunswick County, about 0.4 mile east of milepost 361, at bridge 361.4, in the top step of the east abutment, 8.4 feet south of the south rail, and about 1 foot lower than the top of the rail. A standard disk, stamped "Z 148 1935," (2.029 meters or 6.637 feet.)

A standard disk, stamped "Z 148 1935," (2.029 meters or 6.637 feet.)

A standard disk, stamped "Z 148 1935," (2.029 meters or 6.637 feet.)

A standard disk, stamped "Brunswick County, at the railroad bridge over Cape Feet River, east of the Armout Fertilizer Co. plant, in the top of the north end of the west abutment, and 6 feet north of the north rail. A standard disk, stamped "ARMOUR 1932," (3.994 meters or 12.898 feet.)

Stamped "ARMOUR 1932," (3. and set in the top of a concrete post projecting (5.924 meters or 19.436 feet.)

For additional bench marks in the vicinity of Navassa, 141, and 230.

LINE 71, NEWTON TO GASTONIA, N.

[First-order leveling]

of through Lincolnton to Gustonia. The field work was done in October 1935 by a party in charge of W. M. Gibson, junior hydrographic and geodetic engineer. This line follows the route of a part of the old United States Geological Survey line from Newton, N. C., to Columbia, S. C., and the new leveling was connected with all of the old bench marks which were recoverable. to Columbia, S. C., and the new leveling was connected This line follows the Carolina & Northwestern Railway from New-

For additional bench marks in the vicinity of Newton, see page

Newton.—At Newton, Catawha County, at the county courthouse, about 23 yards northeast of the east entrance, about 20 yards south of the south earb of Main Street, and about 10 yards west of the west earl of Oddege Avenue. A standard triangulation-station disk, stumped "NEWTON 1933" and set in the ton of a concrete post projecting about 5 inches above ground. (302.734 meters " and set in the (302.734 meters